ESSENTRA COMPONENTS

OVER 2,500 NEW PRODUCTS

Richco

ALLIANCE

DURACO

mesan

Micro Plastics, Inc.

800 847 0486

sales@essentracomponents.com

www.essentracomponents.com

ESSENTRA
COMPONENTS

WELCOME TO ESSENTRA

We are global manufacturers and distributors of vital component parts for hundreds of markets and thousands of products. We're proud of what we do and believe that even the smallest products have a big part to play.

OUR KEY MARKETS

- HEALTH & PERSONAL CARE
- FOOD & DRINK
- ELECTRONICS
- EQUIPMENT MANUFACTURING
- HOUSEHOLD
- LOGISTICS
- POS & RETAIL
- VEHICLES

50+ YEARS of GLOBAL MANUFACTURING EXCELLENCE

GLOBAL REACH WITH A LOCAL TOUCH

We bring together the best products, ideas and distribution.

WHO IS ESSENTRA COMPONENTS?

WHETHER YOU HAVE A GLOBAL OR LOCAL PERSPECTIVE, OUR COMBINED REACH AND COLLECTIVE INSIGHT CREATES SOLUTIONS DESIGNED FOR YOU

35,000+ products available

over **80** million parts produced weekly

>1 BILLION parts in stock

1950's Formation of Filtrona Corporation

1968 Alliance Plastics Formed

2007 Acquisition of Duraco

2011 Acquisition of Richco

2013 Acquisition of Ulinco

2013 Rebrand to Essentra

2013 Acquisition of Mesan

2014 Acquisition of Abric

2018 Acquisition of Micro Plastics

NEW PRODUCTS & EXPANDED LINES

NEW

Hydraulic Quick Release Dust Caps & Plugs
PAGE 38 & 51

NEW

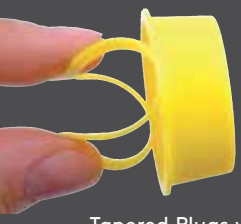
Tapered Plugs w/ Lateral Pull
PAGE 44

NEW

Flanged Pull Plugs
PAGE 78

EXPANDED
Tapered Masking Plugs
PAGE 75

EXPANDED
Tapered Caps & Plugs
PAGE 24



NEW

Tapered Plugs w/ Ring Tab
PAGE 43

NEW

Sloping Edge Plugs
PAGE 78

NEW

Meter Caps
PAGE 32

EXPANDED
Straight Masking Caps
PAGE 70

Fluid Absorption Plugs
PAGE 53

NEW

NEW

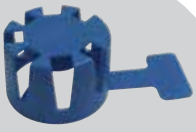
Dual Purpose Plugs
PAGE 81

NEW

Multi-Flanged Plugs
PAGE 76

NEW

First and Last Thread Protection Plugs
PAGE 80



EXPANDED
Overfill Prevention Device Cylinder Valve Caps
PAGE 62

NEW

Mousetail Pull Plugs
PAGE 81

EXPANDED
Packaging Tube Plugs
PAGE 48

NEW

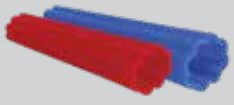
Nylon Metric Threaded O-Ring Plugs
PAGE 61

EXPANDED
NPT Threaded Square-Headed Plugs
PAGE 58

EXPANDED
Flexible End Caps
PAGE 72

NEW

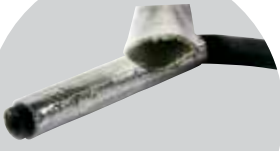
Flexible Silicone Foam Cord
PAGE 74



EXPANDED
Flexible Silicone Star Tubing
PAGE 73

NEW

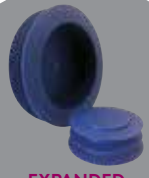
Flange Protection Discs
PAGE 102



EXPANDED
Textile Sleeves for Hose Protection
PAGE 111

NEW

Smooth ID Punching Ties
PAGE 116

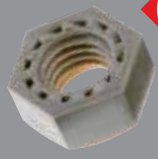


EXPANDED
Ribbed Pipe Plug
PAGE 94

EXPANDED
Tough Snap Rivet
PAGE 123

EXPANDED
Unscrewing Rivet
PAGE 124

EXPANDED
Cracking & Splitting Resistant Pipe Caps
PAGE 92



NEW

PEEK® Hex Nuts
PAGE 138

EXPANDED
Push Rivets
PAGE 126

EXPANDED
Fir Tree Rivets
PAGE 128

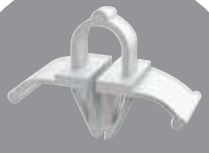
NEW

Polypropylene Locking Cable Ties
PAGE 216

EXPANDED
Mounting Buttons
PAGE 127

EXPANDED
Locking Wire Saddles
PAGE 203

Adhesive Mount Adjustable Clamps
PAGE 182



EXPANDED
Split Routing Clamps
PAGE 188

NEW

Self Closing Wrap
PAGE 243

NEW

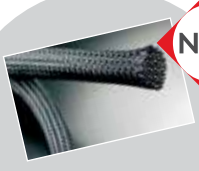
Edge Mount Conduit Holder
PAGE 239

NEW

Nylon Expandable Sleeving
PAGE 241

NEW

Adhesive Mount Wire Mounts
PAGE 187



NEW

PPS UL94 V-0 Expandable Sleeve
PAGE 242

NEW

Adhesive Based Ladder Ties
PAGE 220

NEW

PET Anti-Abrasion Sleeve
PAGE 242

NEW PRODUCTS & EXPANDED LINES

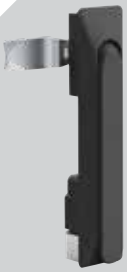
NEW

Rotary Latches
PAGE 434

Specialty Latches &
Toggle Clamps
PAGE 443

Side Mount Hinges
PAGE 471

Quarter-Turn & Spring Loaded
Cam Latches
PAGE 387



Swinghandle Latches
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Corner Mount Hinges
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Gasketing
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Heavy Duty Latches
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Lift & Turn
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Compression Latches
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Concealed & Spring
Loaded Hinges
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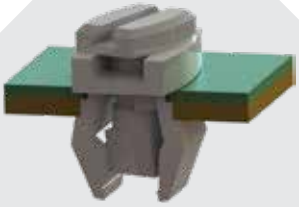

Catches & Panel
Fasteners
PAGE 501

Surface Mount Hinges
PAGE 448

EXPANDED
Flexible Hole Grommets
PAGE 261

NEW
Quick Assemble Hook and Loop Sleeve
PAGE 244

NEW
Heatshrink Braided Sleeve
PAGE 245

EXPANDED
Metric Square Threaded All Metal Inserts
PAGE 286

EXPANDED
Metric Round Heavy Duty Threaded Inserts
PAGE 294

EXPANDED
Metric Round Threaded All Metal Inserts
PAGE 293

NEW
Screw-In Glides
PAGE 299

EXPANDED
Metric Square Heavy Duty Threaded Inserts
PAGE 287

NEW
Stainless Steel Casters
PAGE 313

NEW
High Temperature Casters
PAGE 314

NEW
Rigid Plate Casters
PAGE 315

NEW
Adhesive Glides
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NEW
Swivel Plate Casters
PAGE 316

NEW
Threaded Stem Casters
PAGE 317

NEW
Toggle Clamps
PAGE 319

NEW
Cover Handles
PAGE 344

NEW
Snap-In Cover Pull Handles
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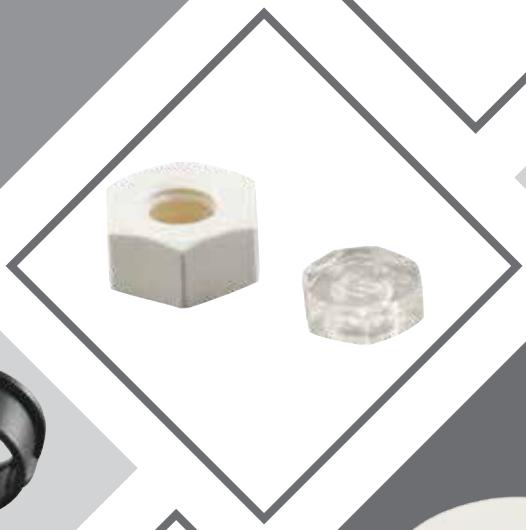
NEW
Machine Handles
PAGE 347

NEW PRODUCTS & EXPANDED LINES

FEATURED PRODUCTS

Micro Plastics, Inc.



For more details contact Essentra.
800 847 0486

AREAS OF EXPERTISE

AUTOMOTIVE

Thousands of standard products are complemented by additional capabilities for custom solutions.

OIL & GAS

Protect against pipe contamination and damage to machined threads and flange faces.

FLUID POWER

A comprehensive line of protection products to protect fittings and hoses.

CONSTRUCTION & AGRICULTURAL MACHINERY

Heavy duty components provide numerous benefits including noise isolation and reducing vibration

ELECTRONICS

Components made from engineered resins provide excellent insulation while being lightweight and cost effective.

INDUSTRIAL MACHINERY

Cost effective machine safety products that provide real value.

ELECTRICAL ENCLOSURES

A wide range of locks, hinges and accessories for indoor and outdoor cabinets, all with excellent security

METAL FABRICATION

Thousands of components support your in plant operations while our extensive range of hardware adds the perfect finishing touch.

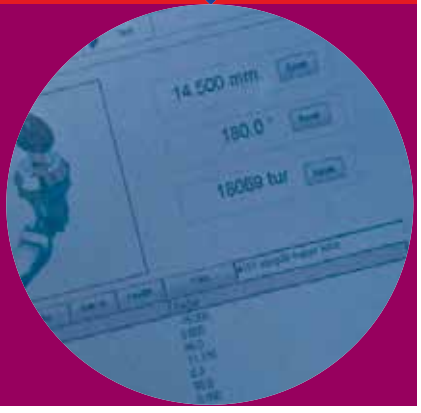
R&D AND PRODUCTION

Essentra Components develops high-performance, innovative, ergonomic customer-oriented products, sensitive to the environment and human health, and which comply with national and international standards.

Our products are developed with the current and future needs of our customers in mind. Our main objective is to be a solutions partner for our customers, by delivering a full range of products with different styling, colors, materials and functionality.

We're committed to continually improving our products and helping our customers realize their full potential. As Essentra, we will continue to use our innovative technology and global distribution network to deliver the highest value to our customers.

QUALITY



We understand that continuous improvement in all of our processes drives customer satisfaction. We ensure our products meet customer expectations, and technical and legal requirements.

Our quality system is ISO 9001-2008 certified and our products are manufactured to comply with RoHS standards. We meet our obligations concerning the Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH).

We commit to:

- Products with superior quality
- A lean manufacturing approach to identify and eliminate waste
- Providing a modern, safe and peaceful working environment for our employees
- Continuous development of our processes
- Leading the industry with innovative concepts
- Designing and manufacturing high value-added products, delivering them on time at reasonable prices
- Ethical values and being sensitive to the environment

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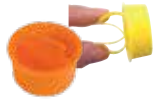
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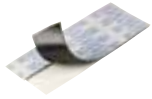
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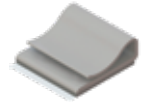
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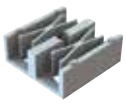
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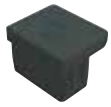
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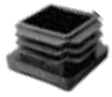
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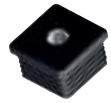
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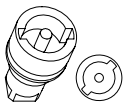
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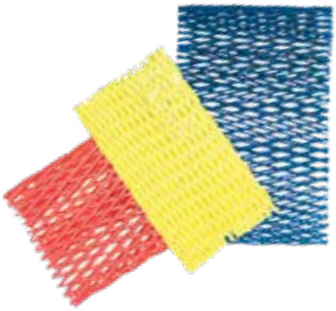
CAPS, PLUGS & NETTING



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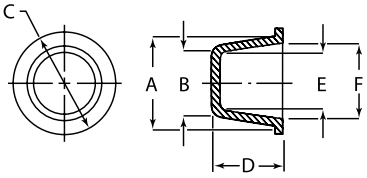
CAPS, PLUGS & NETTING

TAPERED CAPS & PLUGS

Numbered/GP Series
Tapered Caps or Plugs



LINE EXTENSION

Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

Features:
- The tapered design allows the part to plug multiple inner diameters or cap multiple outside diameters
- Protects against damage, dirt, moisture and corrosion during storage and shipping
- GP series parts have a heavy duty design which includes a rugged wall and seal rings for maximum protection

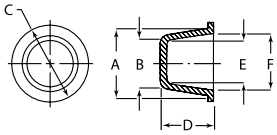
To Assure Proper Fit:

Plugs	Caps
Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"	Cap dimension "E" should be approx. 1% smaller than the outside diameter of the part. Minimum of .020"

See pages 64 and 65 for Application Wizards.

Item No.		Use as a Plug A		B		C		D		Use as a Cap E		F		Bulk Pack Qty.
Blue	Red	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
001A	—	0.180	4.57	0.115	2.92	0.313	7.94	0.406	10.32	0.051	1.30	0.118	3.00	5000
001-SA	—	0.180	4.57	0.138	3.51	0.310	7.87	0.250	6.35	0.051	1.30	0.118	3.00	5000
1000A	• 1000B	0.205	5.21	0.145	3.68	0.410	10.41	0.410	10.41	0.079	2.01	0.150	3.81	5000
002A	002C	0.240	6.10	0.175	4.45	0.375	9.53	0.375	9.53	0.109	2.77	0.175	4.45	5000
003A	—	0.268	6.81	0.209	5.31	0.375	9.53	0.375	9.53	0.127	3.23	0.193	4.90	5000
003WA	—	0.274	6.95	0.200	5.08	0.594	15.08	0.375	9.53	0.150	3.81	0.220	5.58	5000
004A	004B	0.275	6.99	0.209	5.31	0.438	11.11	0.375	9.53	0.150	3.81	0.209	5.31	5000
005A	005B	0.302	7.67	0.240	6.10	0.469	11.91	0.375	9.53	0.175	4.45	0.240	6.10	5000
—	• GP607A	0.325	8.26	0.292	7.42	0.531	13.49	0.375	9.53	0.215	5.46	0.250	6.35	5000
—	• 50222	0.335	8.50	0.185	4.70	0.461	11.70	0.886	22.50	0.098	2.50	0.224	5.70	10000
006A	006B	0.335	8.51	0.265	6.73	0.469	11.91	0.375	9.53	0.204	5.18	0.275	6.99	5000
007A	007B	0.365	9.27	0.300	7.62	0.531	13.49	0.375	9.53	0.234	5.94	0.301	7.65	5000
007WA	—	0.365	9.27	0.300	7.62	0.680	17.27	0.375	9.53	0.234	5.94	0.301	7.65	5000
007SA	—	0.365	9.27	0.330	8.38	0.500	12.70	0.219	5.56	0.266	6.76	0.301	7.65	5000
—	• GP610A	0.389	9.88	0.320	8.12	0.563	14.29	0.438	11.11	0.212	5.38	0.285	7.23	5000
008A	008C	0.398	10.11	0.330	8.38	0.563	14.29	0.375	9.53	0.275	6.99	0.330	8.38	5000
009A	• 009C	0.428	10.87	0.360	9.14	0.594	15.08	0.375	9.53	0.299	7.59	0.365	9.27	5000
010A	010B	0.460	11.68	0.390	9.91	0.625	15.88	0.375	9.53	0.325	8.26	0.396	10.06	5000
—	• 10750	0.465	11.80	0.394	10.00	0.591	15.00	0.374	9.50	0.335	8.50	0.394	10.00	10000
011A	011B	0.485	12.32	0.420	10.67	0.594	15.08	0.375	9.53	0.356	9.04	0.421	10.69	5000
—	• GP617A	0.501	12.72	0.437	11.09	0.647	16.43	0.438	11.11	0.352	8.94	0.420	10.66	4000
012A	012E	0.512	13.00	0.447	11.35	0.625	15.88	0.406	10.32	0.385	9.78	0.448	11.38	5000
—	• 10421	0.520	13.20	0.445	11.30	0.669	17.00	0.433	11.00	0.386	9.80	0.457	11.60	10000
013A	013C	0.547	13.89	0.490	12.45	0.719	18.26	0.500	12.70	0.409	10.39	0.485	12.32	5000
—	• 12421	0.551	14.00	0.441	11.20	0.689	17.50	0.728	18.50	0.362	9.20	0.476	12.10	5000
013SPA	—	0.545	13.84	0.478	12.14	0.719	18.26	0.313	7.94	0.410	10.41	0.480	12.19	5000
013WA	—	0.547	13.89	0.478	12.14	0.875	22.23	0.500	12.70	0.409	10.39	0.485	12.32	7000
014A	014C	0.568	14.43	0.500	12.70	0.750	19.05	0.438	11.11	0.435	11.05	0.503	12.78	5000
1015A		0.576	14.63	0.500	12.70	0.720	18.29	0.470	11.94	0.440	11.18	0.516	13.11	5000
—	• 12901	0.583	14.80	0.472	12.00	0.689	17.50	0.433	11.00	0.413	10.50	0.472	12.00	5000
—	015A	0.594	15.09	0.504	12.80	0.728	18.49	0.949	24.10	0.421	10.69	0.520	13.21	4000
—	• 10438	0.602	15.30	0.535	13.60	0.748	19.00	0.441	11.20	0.476	12.10	0.539	13.70	5000
1020A	—	0.612	15.54	0.554	14.07	0.750	19.05	0.340	8.64	0.490	12.45	0.551	14.00	5000
016A	016D	0.620	15.75	0.531	13.49	0.750	19.05	0.500	12.70	0.468	11.89	0.555	14.10	7500
—	• 10342	0.630	16.00	0.559	14.20	0.748	19.00	0.476	12.10	0.500	12.70	0.567	14.40	5000
017A	017D	0.634	16.10	0.550	13.97	0.781	19.84	0.500	12.70	0.485	12.32	0.568	14.43	7500
—	• 10424	0.669	17.00	0.579	14.70	0.811	20.60	0.500	12.70	0.520	13.20	0.606	15.40	5000
018A	018E	0.675	17.15	0.580	14.99	0.875	22.23	0.531	13.49	0.520	13.21	0.605	15.37	5000
1025A	—	0.694	17.63	0.669	16.99	0.750	19.05	0.220	5.59	0.613	15.57	0.638	16.21	5000
020A	020D	0.695	17.65	0.610	15.49	0.844	21.43	0.500	12.70	0.549	13.94	0.634	16.10	6000
021A	021B	0.728	18.49	0.641	16.28	0.875	22.23	0.500	12.70	0.575	14.61	0.665	16.89	5000
022A	022C	0.754	19.15	0.675	17.15	0.875	22.23	0.625	15.88	0.615	15.62	0.690	17.53	4000
—	• GP628A	0.757	19.22	0.658	16.71	0.921	23.39	0.648	16.45	0.538	13.66	0.662	16.81	5700
—	• 110197	0.764	19.40	0.673	17.10	0.866	22.00	0.512	13.00	0.610	15.50	0.701	17.80	6500
—	• 11088	0.772	19.60	0.697	17.70	0.874	22.20	0.500	12.70	0.598	15.20	0.681	17.30	5000
023A	023C	0.785	19.94	0.690	17.53	0.938	23.81	0.625	15.88	0.625	15.88	0.724	18.39	4000
—	• 12197	0.795	20.20	0.677	17.20	0.953	24.20	0.709	18.00	0.610	15.50	0.709	18.00	4000
024A	—	0.805	20.45	0.750	19.05	0.860	21.84	0.190	4.83	0.688	17.48	0.743	18.87	7500
026A	026C	0.825	20.96	0.725	18.42	1.000	25.40	0.500	12.70	0.662	16.81	0.760	19.30	4000
026-LA	—	0.825	20.96	0.725	18.42	0.970	24.64	0.590	14.99	0.662	16.81	0.760	19.30	8000
027A	027E	0.848	21.54	0.750	19.05	1.031	26.19	0.625	15.88	0.686	17.42	0.777	19.74	7000
—	• GP632A	0.851	21.61	0.766	19.45	1.045	26.54	0.625	15.88	0.609	15.46	0.740	18.79	4200
—	027AA	0.882	22.40	0.768	19.50	1.039	26.40	0.787	20.00	0.701	17.80	0.823	20.90	3000
028A	028D	0.910	23.11	0.802	20.37	1.094	27.78	0.750	19.05	0.725	18.42	0.846	21.49	5000
029A	029D	0.931	23.65	0.820	20.83	1.125	28.58	0.625	15.88	0.754	19.15	0.868	22.05	5500
030A	030C	0.973	24.71	0.856	21.74	1.125	28.58	0.750	19.05	0.768	19.51	0.906	23.01	4500

Numbered/GP Series
Tapered Caps or Plugs (continued)



LINE EXTENSION

To Assure Proper Fit:

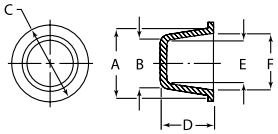
Plugs	Caps
Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"	Cap dimension "E" should be approx. 1% smaller than the outside diameter of the part. Minimum of .020"

See pages 64 and 65 for Application Wizards.

Item No.		Use as a Plug								Use as a Cap				Bulk Pack Qty.
		A		B		C		D		E		F		
Blue	Red	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
031A	031D	0.975	24.77	0.870	22.10	1.125	28.58	0.625	15.88	0.804	20.42	0.920	23.37	5000
—	• 10376	0.984	25.00	0.866	22.00	1.122	28.50	0.626	15.90	0.807	20.50	0.906	23.00	3000
—	• 12565	1.004	25.50	0.886	22.50	1.138	28.90	0.701	17.80	0.795	20.20	0.917	23.30	3000
035A	035D	1.040	26.42	0.895	22.73	1.140	29.37	0.750	19.05	0.832	21.13	0.975	24.77	4500
038A	—	1.045	26.54	0.980	24.89	1.250	31.75	0.500	12.70	0.916	23.27	0.984	24.99	2500
—	039A	1.059	26.90	0.945	24.00	1.220	31.00	0.748	19.00	0.862	21.90	0.984	24.99	2000
040A	040B	1.096	27.83	0.966	24.54	1.250	31.75	0.750	19.05	0.902	22.91	1.038	23.36	3500
—	• GP642A	1.140	28.95	1.094	27.78	1.360	34.54	0.628	15.95	0.920	23.36	1.046	26.56	2200
041A	041C	1.145	29.08	1.002	25.45	1.313	33.34	0.750	19.05	0.938	23.83	1.079	27.41	3500
—	041AA	1.161	29.50	0.969	24.60	1.339	34.00	1.134	28.80	0.886	22.50	1.083	27.50	1500
—	GPT643A	1.215	30.86	1.094	27.79	1.375	34.93	0.750	19.05	1.031	26.19	1.152	29.26	2000
042A	042D	1.225	31.12	1.110	28.19	1.516	38.50	0.750	19.05	1.038	26.37	1.180	29.97	2500
1040A	—	1.284	32.61	1.175	29.85	1.670	42.42	0.750	19.10	1.113	28.27	1.222	31.04	2000
044A	044D	1.292	32.81	1.165	29.59	1.420	36.10	0.750	19.05	1.090	27.69	1.205	30.61	2500
1035A	—	1.310	33.27	0.840	21.34	1.430	36.32	1.090	27.69	0.777	19.74	1.247	31.67	2500
1050A	—	1.312	33.32	1.276	32.41	1.380	35.05	0.560	14.22	1.155	29.34	1.190	30.23	2000
—	• GP648A	1.354	34.39	1.206	30.63	1.531	38.88	0.750	19.05	1.150	29.21	1.203	30.55	1500
045A	045D	1.355	34.42	1.225	31.12	1.500	38.10	0.750	19.05	1.160	29.46	1.295	32.89	2500
046A	046B	1.350	34.29	1.235	31.37	1.500	38.10	0.750	19.05	1.140	28.96	1.295	32.89	2500
047A	—	1.362	34.59	1.291	32.79	1.500	38.10	0.750	19.05	1.227	31.17	1.300	33.02	2000
—	• GP650A	1.385	35.18	1.305	33.15	1.625	41.28	0.750	19.05	1.205	30.60	1.285	32.64	1400
1055A	—	1.420	36.07	1.140	28.96	1.560	39.62	0.840	21.34	1.085	27.56	1.358	34.49	2500
—	• GP652A	1.441	36.60	1.376	34.95	1.694	43.02	0.750	19.05	1.238	31.44	1.344	34.13	1300
048A	048D	1.455	36.96	1.291	32.79	1.625	41.28	1.000	25.40	1.227	31.17	1.391	35.33	1500
049A	049B	1.470	37.34	1.311	33.30	1.625	41.28	0.750	19.05	1.249	31.72	1.400	35.56	2000
—	• 12480	1.508	38.30	1.335	33.90	1.665	42.30	0.965	24.50	1.256	31.90	1.437	36.50	1000
051A	051E	1.517	38.53	1.344	34.14	1.750	44.45	0.938	23.81	1.282	32.56	1.460	36.83	1500
—	• GP654A	1.522	38.65	1.449	36.80	1.733	44.01	0.750	19.05	1.343	34.11	1.420	36.06	1200
K5A	—	1.525	38.74	1.525	38.74	1.713	43.51	0.500	12.70	1.445	36.70	1.445	36.70	2500
—	• GP656A	1.577	40.06	1.506	38.25	1.820	46.22	0.750	19.05	1.346	34.19	1.466	37.23	1000
—	052A	1.583	40.21	1.413	35.89	1.736	44.09	1.004	25.50	1.307	33.20	1.476	37.49	1000
053A	053C	1.600	40.64	1.450	36.83	1.750	44.45	0.750	19.05	1.385	35.18	1.535	38.99	2000
054A	054D	1.602	40.69	1.520	38.61	1.780	45.21	0.750	19.05	1.456	36.98	1.537	39.04	1700
—	• GP658A	1.636	41.55	1.560	39.62	1.875	47.63	0.750	19.05	1.440	36.58	1.545	39.24	1000
055A	055E	1.673	42.49	1.560	39.62	1.875	47.63	0.750	19.05	1.497	38.02	1.620	41.15	1500
—	• GP660A	1.686	42.82	1.613	40.97	1.905	48.38	0.750	19.05	1.475	37.46	1.598	40.58	1000
056A	056C	1.750	44.45	1.606	40.79	1.938	49.21	0.750	19.05	1.568	39.83	1.685	42.80	1500
—	• GP662A	1.753	44.52	1.682	42.72	2.000	50.80	0.750	19.05	1.543	39.19	1.642	41.71	800
—	• GP664A	1.815	46.10	1.730	43.94	2.125	53.98	0.750	19.05	1.640	41.66	1.720	43.69	800
059A	059B	1.825	46.36	1.800	45.72	2.031	51.59	0.500	12.70	1.736	44.09	1.760	44.70	2000
1065A	—	1.850	46.99	1.720	43.69	2.030	51.56	0.750	19.05	1.664	42.27	1.794	45.57	3500
057A	057C	1.870	47.50	1.735	44.07	2.031	51.60	0.750	19.05	1.675	42.55	1.820	46.23	1200
—	• GP666A	1.877	47.67	1.808	45.92	2.235	56.76	0.750	19.05	1.668	42.36	1.770	44.95	700
1070A	—	1.900	48.26	1.440	36.58	2.060	52.32	1.310	33.27	1.378	35.00	1.833	46.56	1000
—	057AB	1.913	48.60	1.709	43.41	2.102	53.40	1.004	25.50	1.622	41.20	1.850	46.99	600
—	• GP668A	1.921	48.79	1.865	47.37	2.266	57.55	0.750	19.05	1.713	43.51	1.820	46.22	700
058A	058B	1.958	49.73	1.806	45.87	2.125	53.98	1.000	25.40	1.745	44.32	1.893	48.08	900
1075A	—	1.975	50.17	1.865	47.37	2.380	60.45	0.670	17.02	1.785	45.34	1.895	48.13	2500
—	• GP670A	2.007	50.97	1.928	48.97	2.352	59.74	0.750	19.05	1.813	46.05	1.892	48.05	600
060A	060B	2.020	51.31	1.846	46.89	2.125	53.98	1.000	25.40	1.785	45.34	1.938	49.23	1000
—	• GP672A	2.037	51.73	1.970	50.03	2.399	60.93	0.750	19.05	1.810	45.97	1.947	49.45	600
—	• 12430	2.043	51.90	1.858	47.20	2.197	55.80	0.945	24.00	1.752	44.50	1.917	48.70	500
1080A	—	2.065	52.45	1.950	49.53	2.200	55.88	0.750	19.05	1.885	47.88	2.000	50.80	2500
062A	062B	2.085	52.96	1.902	48.31	2.250	57.15	1.000	25.40	1.839	46.71	2.015	51.18	850
1085A	—	2.100	53.34	2.020	51.31	2.590	65.79	0.380	9.65	2.060	52.32	2.140	54.36	1000
—	• 12746	2.126	54.00	1.961	49.80	2.283	58.00	0.957	24.30	1.870	47.50	2.047	52.00	500
—	• GP674A	2.130	54.10	2.040	51.82	2.469	62.71	0.750	19.05	1.945	49.41	2.045	51.94	600
065A	065B	2.146	54.51	2.016	51.21	2.313	58.74	0.750	19.05	1.955	49.66	2.083	52.91	1000
061A	—	2.160	54.86	1.740	44.20	2.310	58.67	1.210	30.73	1.668	42.37	2.093	53.16	1000
063A	063C	2.168	55.07	1.980	50.29	2.250	57.15	1.000	25.40	1.915	48.64	2.110	53.59	800
—	• GP676A	2.181	55.39	2.110	53.59	2.500	63.50	0.750	19.05	2.010	51.05	2.110	53.59	500
066A	—	2.253	57.23	2.062	52.37	2.438	61.91	1.031	26.20	2.000	50.80	2.175	55.25	700
068A	068C	2.279	57.90	2.224	56.50	2.500	63.50	0.500	12.70	2.150	54.60	2.221	56.41	1200
064A	—	2.310	58.67	1.940	49.28	2.470	62.74	0.880	22.35	1.875	47.63	2.255	57.28	1000
067A	067B	2.355	59.82	2.156	54.76	2.625	66.68	1.000	25.40	2.084	52.93	2.288	58.12	600
069A	—	2.400	60.96	2.280	57.91	2.800	71.12	0.750	19.05	2.216	56.29	2.336	59.33	1500
070A	070B	2.425	61.60	2.128	54.05	2.500	63.50	1.000	25.40	2.045	51.94	2.370	60.20	700
072A	—	2.464	62.59	2.300	58.42	2.660	67.56	0.750	19.05	2.220	56.39	2.383	60.53	2000
071A	071C	2.485	63.12	2.300	58.42	2.625	66.68	1.000	25.40	2.235	56.77	2.400	60.96	600

TAPERED CAPS & PLUGS

Numbered/GP Series
Tapered Caps or Plugs (continued)



LINE EXTENSION

To Assure Proper Fit:

Plugs	Caps
Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"	Cap dimension "E" should be approx. 1% smaller than the outside diameter of the part. Minimum of .020"

See pages 64 and 65 for Application Wizards.

Item No.		Use as a Plug								Use as a Cap				Bulk Pack Qty.
		A		B		C		D		E		F		
Blue	Red	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
073A	073E	2.605	66.17	2.395	60.83	2.625	66.68	1.000	25.40	2.331	59.21	2.541	64.54	600
074A	—	2.645	67.18	2.428	61.67	2.750	69.85	0.750	19.05	2.420	61.47	2.580	65.53	700
075A	—	2.650	67.31	2.311	58.70	2.750	69.85	1.000	25.40	2.245	57.02	2.585	65.66	750
077A	077B	2.690	68.33	2.560	65.02	2.875	73.03	0.750	19.05	2.500	63.50	2.625	66.68	700
076A	076C	2.750	69.85	2.457	62.41	2.875	73.03	1.000	25.40	2.392	60.76	2.685	68.20	600
—	• 11064	2.791	70.90	2.681	68.10	2.937	74.60	0.748	19.00	2.610	66.30	2.728	69.30	400
078A	078C	2.805	71.25	2.645	67.18	3.000	76.20	0.500	12.70	2.580	65.53	2.725	69.22	1000
080A	—	2.870	72.90	2.706	68.73	3.060	77.72	0.720	18.29	2.625	66.68	2.789	70.84	500
082A	082C	2.980	75.69	2.850	72.39	3.250	82.55	0.750	19.05	2.785	70.74	2.920	74.17	500
081A	081B	3.000	76.20	2.720	69.09	3.125	79.38	1.000	25.40	2.626	66.70	2.950	74.93	500
• 1087B	• 1087A	3.103	78.80	2.975	75.50	3.340	84.80	0.750	19.00	2.915	74.00	3.041	77.20	500
083A	083B	3.158	80.21	2.995	76.07	3.375	85.73	0.500	12.70	2.915	74.04	3.098	78.69	750
—	GPT684A	3.200	81.28	3.030	76.96	3.594	91.28	0.810	20.57	2.880	73.15	3.070	77.98	300
085A	085C	3.245	82.42	2.980	75.69	3.375	85.73	1.000	25.40	2.900	73.66	3.165	80.39	400
086A	086D	3.365	85.47	3.090	78.49	3.500	88.90	1.000	25.40	3.005	76.33	3.285	83.44	400
—	• 11037	3.390	86.10	3.150	80.00	3.535	89.80	0.988	25.10	3.051	77.50	3.228	82.00	500
087A	087B	3.450	87.63	3.319	84.30	3.625	92.08	0.500	12.70	3.239	82.27	3.371	85.62	500
—	• 11171	3.465	88.00	3.358	85.30	3.622	92.00	0.748	19.00	3.264	82.90	3.366	85.50	250
088A	088B	3.575	90.81	3.236	82.19	3.938	100.01	1.000	25.40	3.156	80.16	3.494	88.75	300
—	GPT689A	3.585	91.06	3.455	87.76	3.938	100.01	0.750	19.05	3.365	85.47	3.520	89.41	250
089A	089C	3.600	91.44	3.465	88.01	3.875	98.43	0.812	20.62	3.405	86.49	3.540	89.22	350
—	• 12572	3.685	93.60	3.445	87.50	3.807	96.70	1.350	34.30	3.319	84.30	3.563	90.50	250
K851A	—	3.750	95.25	3.552	90.22	4.000	101.60	1.000	25.40	3.478	88.34	3.676	93.37	250
090A	090C	3.800	96.52	3.675	93.35	4.000	101.60	0.750	19.05	3.605	91.57	3.730	94.74	300
—	• 10253	3.819	97.00	3.626	92.10	3.937	100.00	1.260	32.00	3.476	88.30	3.701	94.00	300
—	GPT691A	3.900	99.06	3.800	96.52	4.500	114.30	0.438	11.11	3.600	91.44	3.700	93.98	250
091A	—	3.925	99.70	3.800	96.52	4.125	104.78	0.688	17.46	3.715	94.36	3.845	97.66	300
—	• 10697	3.949	100.30	3.681	93.50	4.232	107.50	1.043	26.50	3.539	89.90	3.850	97.80	400
—	• 12573	3.961	100.60	3.720	94.50	4.079	103.60	1.358	34.50	3.583	91.00	3.819	97.00	100
—	• 462569	4.016	102.00	3.799	96.50	4.331	110.00	1.220	31.00	3.701	94.00	3.976	101.00	200
092A	092C	4.070	103.38	3.915	99.45	4.375	111.13	0.781	19.84	3.810	96.77	3.980	101.09	250
093A	093B	4.190	106.43	4.030	102.36	4.500	114.30	0.750	19.05	3.950	100.33	4.110	104.39	250
—	• 110785	4.213	107.00	3.976	101.00	4.291	109.00	1.126	28.60	3.858	98.00	4.055	103.00	300
—	GPT690A	4.331	110.01	4.050	102.87	4.625	117.48	1.250	31.75	3.970	100.84	4.230	107.44	150
—	• 10771	4.398	111.70	4.201	106.70	4.461	113.30	1.126	28.60	4.228	107.40	4.228	107.40	250
—	GPT692A	4.430	112.52	4.270	108.46	4.875	123.83	0.875	22.23	4.180	106.17	4.340	110.24	150
094A	094B	4.445	112.90	4.215	107.06	4.875	123.83	1.000	25.40	4.135	105.03	4.380	111.25	200
—	• 10133	4.500	114.30	4.413	112.10	4.598	116.80	1.126	28.60	4.232	107.50	4.323	109.80	250
—	• 10837	4.528	115.00	4.331	110.00	4.665	118.50	1.102	28.00	4.134	105.00	4.291	109.00	250
095A	095C	4.605	116.97	4.365	110.87	5.000	127.00	1.000	25.40	4.289	108.95	4.500	114.30	200
—	• 12574	4.630	117.60	4.390	111.50	4.803	122.00	1.378	35.00	4.232	107.50	4.528	115.00	250
096A	096B	4.850	123.19	4.640	117.86	5.250	133.35	0.910	23.11	4.570	116.08	4.780	121.41	250
1090A	—	4.970	126.24	4.790	121.67	5.380	136.65	1.030	26.16	4.710	119.63	4.890	124.21	250
—	097A	5.039	128.00	4.882	124.00	5.276	134.00	0.965	24.50	4.764	121.00	4.921	125.00	150
—	GPT694A	5.071	128.80	4.986	126.64	5.188	131.76	0.500	12.70	4.854	123.29	4.978	126.44	150
1100A	1100B	5.090	129.29	4.910	124.71	5.500	139.70	1.030	26.16	4.830	122.68	5.010	127.25	250
1110A	—	5.200	132.08	4.990	126.75	5.630	143.00	1.030	26.16	4.920	124.97	5.100	129.54	250
—	098A	5.319	135.00	5.071	128.80	5.492	139.50	1.496	38.00	4.882	124.00	5.197	132.00	150
099A	—	5.360	136.14	5.180	131.57	5.880	149.35	1.030	26.16	5.110	129.79	5.290	134.37	250
—	• 462571	5.394	137.00	5.236	133.00	5.630	143.00	0.866	22.00	5.126	130.20	5.283	134.20	150
100A	100B	5.490	139.45	5.330	135.38	5.880	149.35	0.910	23.11	5.210	132.33	5.370	136.40	250
101A	101B	5.620	142.75	5.470	138.94	6.130	155.70	1.000	25.40	5.390	136.91	5.540	140.72	100
—	• 12576	5.732	145.60	5.492	139.50	5.906	150.00	1.437	36.50	5.315	135.00	5.512	140.00	150
102A	102B	5.750	146.05	5.570	141.48	6.190	157.23	1.030	26.16	5.490	139.45	5.670	144.02	250
103A	103B	5.874	149.20	5.640	143.26	6.250	158.80	1.000	25.40	5.540	140.72	5.794	147.17	100
K1249A	—	5.906	150.01	5.551	141.00	6.460	164.08	1.000	25.40	5.433	138.00	5.827	148.01	140
—	103AA	6.008	152.60	5.779	146.80	6.280	159.50	1.378	35.00	5.622	142.80	5.850	148.60	100
104A	104C	6.180	156.97	6.010	152.65	6.620	168.15	1.000	25.40	5.920	150.37	6.100	154.94	90
—	K1274A	6.357	161.47	6.050	153.67	7.043	178.89	1.165	29.69	5.984	152.00	6.299	160.00	135
—	• 12577	6.390	162.30	6.142	156.00	6.587	167.30	1.445	36.70	5.976	151.80	6.252	158.80	100
106A	106B	6.560	166.62	6.400	162.56	6.940	176.28	0.900	22.86	6.330	160.78	6.480	164.59	100
108A	108B	6.710	170.43	6.610	167.89	7.190	182.63	1.530	38.86	6.530	165.86	6.630	168.40	100
K436A	—	7.030	178.56	6.880	174.75	7.670	194.82	0.530	13.46	6.800	172.72	6.950	176.53	300
110A	110B	7.120	180.85	7.050	179.07	7.630	193.80	1.030	26.16	6.970	177.04	7.040	178.82	100
112A	—	7.650	194.31	7.340	186.44	7.940	201.68	1.030	26.16	7.260	184.40	7.560	192.02	100
114A	—	7.840	199.14	7.660	194.56	8.120	206.25	1.031	26.19	7.580	192.53	7.760	197.10	100
116A	116B	8.140	206.76	7.970	202.44	8.380	212.85	1.031	26.19	7.880	200.15	8.050	204.47	100
—	• 462572	8.209	208.50	8.012	203.50	8.504	216.00	0.945	24.00	7.909	200.90	8.106	205.90	60
118A	—	8.350	212.09	8.150	207.01	8.750	222.25	1.406	35.71	8.050	204.47	8.250	209.55	50
120A	120B	8.600	218.44	8.400	213.36	9.000	228.60	1.406	35.71	8.300	210.82	8.500	215.90	50
124A	—	8.730	221.74	8.670	220.22	9.130	231.90	1.531	38.89	8.550	217.17	8.625	219.08	50
—	K1275A	8.803	223.60	8.505	216.03	9.508	241.50	1.145	29.08	8.386	213.00	8.780	223.01	100
126A	—	9.360	237.74	9.060	230.12	9.860	250.44	1.781	45.24	8.890	225.81	9.240	234.70	50
128A	128B	10.130	257.30	9.950	252.73	10.500	266.70	1.031	26.19	9.730	247.14	9.910	251.71	75
130A	130B	11.100	281.94	10.790	274.07	11.600	294.64	1.781	45.24	10.550	267.97	10.910	277.11	40
132A	—	11.460	291.08	11.110	282.19	11.960	303.78	2.031	51.59	10.780	273.81	11.270	286.26	40
133A	—	12.560	319.02	11.930	303.02	13.050	331.47	2.031	51.59	11.700	297.18	12.350	313.69	30
134A	—	13.140	333.76	12.790	324.87	13.640	346.46	2.031	51.59	12.530	318.26	12.920	328.17	30
136A	—	13.600	345.44	13.250	336.55	14.100	358.14	2.031	51.59	13.000	330.20	13.400	340.36	30

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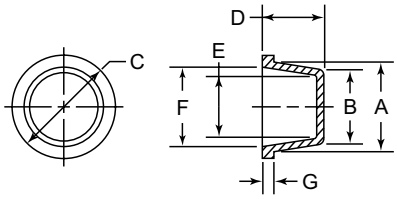
TAPERED CAPS & PLUGS

LF Series
Wide Flange Caps or Plugs



LINE EXTENSION

Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

Features:
- Wider flange assures added protection on bearing surfaces
- Wider flange keeps plug from being accidently pushed down through the mating part
- The tapered design allows the part to plug multiple inner diameters or cap multiple outside diameters

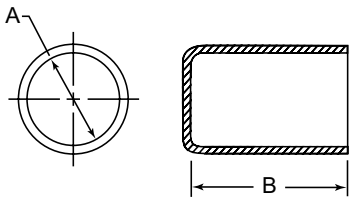
To Assure Proper Fit:

Plugs	Caps
Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"	Cap dimension "E" should be approx. 1% smaller than the outside diameter of the part. Minimum of .020"

Item No.	Use as a Plug A in	A mm	B in	B mm	C in	C mm	D in	D mm	Use as a Cap E in	E mm	F in	F mm	G in	G mm	Color	Bulk Pack Qty.
LF2A	0.240	6.10	0.173	4.39	0.562	14.27	0.465	11.81	0.111	2.82	0.177	4.50	0.090	2.29	Blue	5500
LF3A	0.290	7.37	0.236	5.99	0.485	12.32	0.402	10.21	0.146	3.71	0.245	6.22	0.090	2.29	Blue	5000
LF5A	0.374	9.50	0.307	7.80	0.724	18.39	0.404	10.26	0.248	6.30	0.303	7.70	0.030	0.76	Red	5000
LF6A	0.418	10.62	0.367	9.32	0.740	18.80	0.402	10.21	0.298	7.57	0.354	8.99	0.090	2.29	Blue	5000
LF7A	0.447	11.35	0.397	10.08	0.795	20.19	0.402	10.21	0.328	8.33	0.383	9.73	0.090	2.29	Blue	5000
LF8A	0.475	12.07	0.427	10.85	0.812	20.62	0.402	10.21	0.356	9.04	0.422	10.72	0.090	2.29	Blue	4750
• 12433	0.484	12.30	0.421	10.70	0.866	22.00	0.404	10.26	0.358	9.10	0.421	10.70	0.030	0.76	Red	10000
LF9A	0.509	12.93	0.440	11.18	0.820	20.83	0.465	11.81	0.375	9.53	0.450	11.43	0.090	2.29	Blue	7500
• 10420	0.520	13.20	0.445	11.30	1.142	29.00	0.463	11.76	0.386	9.80	0.457	11.60	0.030	0.76	Red	10000
LF10A	0.547	13.89	0.481	12.22	0.870	22.10	0.460	11.68	0.409	10.39	0.493	12.52	0.090	2.29	Blue	7000
• 12434	0.610	15.50	0.531	13.50	1.181	30.00	0.404	10.26	0.449	11.40	0.520	13.20	0.030	0.76	Red	5000
LF11A	0.616	15.65	0.530	13.46	0.940	23.88	0.470	11.94	0.470	11.94	0.570	14.48	0.090	2.29	Blue	5000
LF11XA	0.631	16.03	0.565	14.35	0.950	24.13	0.491	12.47	0.500	12.70	0.580	14.73	0.090	2.29	Blue	5000
LF12A	0.659	16.74	0.580	14.99	0.983	24.97	0.527	13.39	0.518	13.16	0.605	15.37	0.090	2.29	Blue	4500
• 18351	0.665	16.90	0.579	14.70	1.000	25.40	0.545	13.84	0.520	13.20	0.606	15.40	0.045	1.14	Red	6000
LF12XA	0.687	17.45	0.610	15.49	1.031	26.19	0.527	13.39	0.548	13.92	0.635	16.13	0.090	2.29	Blue	4500
LF13XA	0.710	18.03	0.655	16.64	1.062	26.97	0.528	13.41	0.585	14.86	0.647	16.43	0.090	2.29	Yellow	4000
LF13A	0.725	18.42	0.628	15.95	1.062	26.97	0.528	13.41	0.558	14.17	0.667	16.94	0.090	2.29	Yellow	5000
LF15A	0.775	19.69	0.690	17.53	1.125	28.58	0.559	14.20	0.620	15.75	0.721	18.31	0.090	2.29	Blue	3500
• 12435	0.787	20.00	0.689	17.50	1.374	34.90	0.608	15.44	0.634	16.10	0.728	18.50	0.045	1.14	Red	3000
LF15XA	0.812	20.62	0.725	18.42	1.140	28.96	0.580	14.99	0.662	16.81	0.765	19.43	0.090	2.29	Blue	3000
• 18356	0.846	21.50	0.752	19.10	1.500	38.10	0.608	15.44	0.693	17.60	0.783	19.90	0.045	1.14	Red	2500
LF16A	0.870	22.10	0.755	19.18	1.185	30.10	0.580	14.99	0.693	17.60	0.808	20.52	0.090	2.29	Blue	3000
LF17A	0.920	23.37	0.820	20.83	1.250	31.75	0.621	15.77	0.741	18.82	0.865	21.97	0.090	2.29	Blue	2300
LF18A	0.975	24.77	0.867	22.02	1.281	32.54	0.650	16.51	0.805	20.45	0.913	23.19	0.090	2.29	Blue	4000
• 12436	0.984	25.00	0.862	21.90	1.890	48.00	0.734	18.64	0.744	18.90	0.866	22.00	0.045	1.14	Red	1500
LF19A	1.020	25.90	0.950	24.13	1.344	34.13	0.715	18.16	0.875	22.22	0.957	24.30	0.090	2.29	Blue	1500
• 18357	1.091	27.70	0.972	24.70	1.500	38.10	0.797	20.24	0.913	23.20	1.028	26.10	0.045	1.14	Red	1500
LF20A	1.105	28.07	0.984	24.99	1.437	36.50	0.746	18.95	0.920	23.37	1.040	26.42	0.090	2.29	Blue	3000
LF21A	1.323	33.60	1.197	30.40	1.862	47.29	0.643	16.33	1.094	27.79	1.209	30.71	0.045	1.14	Red	1400
• 18360	1.354	34.40	1.224	31.10	1.874	47.60	0.797	20.24	1.173	29.80	1.291	32.80	0.045	1.14	Red	1000
LF22A	1.382	35.10	1.237	31.42	1.687	42.85	0.746	18.95	1.167	29.64	1.312	33.32	0.090	2.29	Blue	2000
LF23XA	1.466	37.24	1.312	33.32	1.845	46.86	0.775	19.69	1.250	31.75	1.425	36.20	0.120	3.05	Blue	1700
LF24A	1.604	40.74	1.450	36.83	1.938	49.23	0.745	18.92	1.380	35.05	1.550	39.37	0.120	3.05	Blue	1500
LF26A	1.764	44.81	1.630	41.40	2.252	57.20	0.784	19.91	1.563	39.70	1.693	43.00	0.035	0.90	Red	700
LF28A	1.890	48.01	1.730	43.94	2.312	58.72	0.745	18.92	1.650	41.91	1.825	46.36	0.120	3.05	Blue	1100
LF30A	2.043	51.89	1.858	47.19	2.835	72.01	1.004	25.50	1.752	44.50	1.917	48.69	0.059	1.50	Red	400
LF32A	2.075	52.71	1.902	48.31	2.500	63.50	1.059	26.90	1.823	46.30	1.996	50.70	0.059	1.50	Red	1000
LF34A	2.130	54.10	2.028	51.51	2.626	66.70	0.768	19.50	1.953	49.61	2.047	51.99	0.039	1.00	Red	500
LF36A	2.402	61.01	2.146	54.51	3.012	76.50	1.024	26.00	2.055	52.20	2.323	59.00	0.039	1.00	Red	300
LF38A	2.614	66.40	2.441	62.00	3.267	83.00	1.152	29.26	2.323	59.00	2.531	64.30	0.050	1.27	Red	250

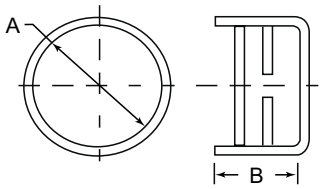
PUSH-FIT CAPS

A & AR Series
Round End Caps



Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

Features:
- Designed to protect outside diameters
- Parts with a W/R have an internal molded ring for extra gripping power
- Parts with AR prefix have internal ribs for superior retention



AR Prefix

See pages 64 and 65 for Application Wizards.

Item No.	A in	A mm	B in	B mm	Color	Bulk Pack Qty.
A3/32W/RA	0.094	2.38	0.625	15.88	Blue	5000
A1/8W/RA	0.125	3.18	0.625	15.88	Blue	5000
A5/32W/RA	0.156	3.97	0.625	15.88	Blue	5000
A3/16W/RA	0.187	4.76	0.625	15.88	Blue	5000
A1/4W/RA	0.250	6.35	0.875	22.23	Blue	5000
L1/4A	0.250	6.35	1.750	44.45	Blue	7500
AS9/32A	0.281	7.14	0.500	12.70	Blue	6500
A9/32A	0.281	7.14	0.875	22.23	Blue	6500
AC5/16W/RA	0.295	7.49	0.875	22.23	Blue	6000
A5/16W/RA	0.313	7.94	0.875	22.23	Blue	5000
L5/16A	0.313	7.94	1.750	44.45	Blue	4500
A3/8W/RA	0.375	9.53	0.875	22.23	Blue	4250
L3/8A	0.375	9.53	1.750	44.45	Blue	3800
AR100A	0.390	9.91	0.630	16.00	Red	10000
AS7/16A	0.437	11.11	0.500	12.70	Blue	6000
A7/16W/RA	0.437	11.11	0.875	22.23	Blue	7000
AR105A	0.450	11.43	0.630	16.00	Red	10000
A1/2BA	0.470	11.94	0.875	22.23	Blue	5000
A1/2A	0.495	12.57	0.875	22.23	Blue	5000
AS1/2A	0.500	12.70	0.500	12.70	Blue	5000
A1/2W/RA	0.500	12.70	0.875	22.23	Blue	5000
AS9/16A	0.563	14.29	0.563	14.29	Blue	6500
A9/16A	0.563	14.29	0.875	22.23	Blue	4000
A9/16W/RA	0.563	14.29	0.875	22.23	Blue	4000
AR110A	0.580	14.73	0.787	20.00	Red	5000
AS5/8A	0.625	15.88	0.375	9.53	Blue	4250
A5/8W/RA	0.625	15.88	0.875	22.23	Blue	3500
AR115A	0.630	16.00	0.787	20.00	Red	5000
AS11/16W/RA	0.687	17.46	0.750	19.05	Blue	4000
A11/16A	0.687	17.46	0.875	22.23	Blue	3000
A11/16W/RA	0.687	17.46	0.875	22.23	Blue	3000
A23/32A	0.720	18.29	1.310	33.27	Blue	1700
K505A	0.720	18.29	1.500	38.10	Blue	2800
K505W/RA	0.720	18.29	1.500	38.10	Natural	2800
AR120A	0.727	18.47	0.787	20.00	Red	2500
AS3/4A	0.750	19.05	0.375	9.53	Blue	6000
A3/4A	0.750	19.05	0.875	22.23	Blue	5000
A3/4W/RA	0.750	19.05	0.875	22.23	Blue	5000
AR125A	0.787	20.00	0.787	20.00	Red	2000
AS13/16W/RA	0.813	20.64	0.344	8.73	Blue	6000
A13/16A	0.813	20.64	0.875	22.23	Blue	4500
A13/16W/RA	0.813	20.64	0.875	22.23	Blue	4500
AR130A	0.866	22.00	0.787	20.00	Red	2500
AS7/8W/RA	0.875	22.23	0.500	12.70	Blue	3500
A7/8W/RA	0.875	22.23	0.875	22.23	Blue	4000
L7/8A	0.875	22.23	1.750	44.45	Blue	2000

Item No.	A in	A mm	B in	B mm	Color	Bulk Pack Qty.
A15/16A	0.937	23.81	0.813	20.64	Blue	3500
AR135A	0.961	24.41	0.827	21.01	Red	2000
A63/64A	0.980	24.89	1.310	33.27	Blue	2000
AS1A	1.000	25.40	0.375	9.53	Blue	4000
A1A	1.000	25.40	0.750	19.05	Blue	3500
A1W/RA	1.000	25.40	0.750	19.05	Blue	3500
AL1A	1.000	25.40	1.000	25.40	Blue	2500
L1B	1.000	25.40	1.750	45.72	Blue	1400
A1-1/16A	1.063	26.99	0.875	22.23	Blue	3000
A1-1/16W/RA	1.063	26.99	0.875	22.23	Blue	3000
AR140A	1.102	28.00	1.043	26.50	Red	1000
A1-1/8A	1.125	28.58	0.875	22.23	Blue	2500
A1-3/16W/RA	1.187	30.16	1.000	25.40	Blue	2000
AR145A	1.200	30.48	1.043	26.50	Red	800
AS1-1/4A	1.250	31.75	0.625	15.88	Blue	3000
A1-1/4A	1.250	31.75	0.875	22.23	Blue	2000
A1-5/16A	1.313	33.34	0.875	22.23	Blue	2000
A1-5/16W/RA	1.313	33.34	0.875	22.23	Blue	2000
A1-3/8A	1.375	34.93	0.875	22.23	Blue	1800
AR150A	1.378	35.00	1.043	26.50	Red	800
A1-7/16A	1.437	36.51	0.875	22.23	Blue	1600
AR155A	1.444	36.68	1.031	26.19	Red	500
A1-1/2A	1.500	38.10	0.875	22.23	Blue	1500
A1-9/16A	1.563	39.69	1.000	25.40	Blue	1200
A1-5/8A	1.625	41.28	1.000	25.40	Blue	1900
A1-11/16A	1.688	42.87	0.875	22.23	Blue	1200
A1-3/4A	1.750	44.45	0.875	22.23	Blue	1200
A1-7/8A	1.875	47.63	0.875	22.23	Blue	1000
A2A	2.000	50.80	0.875	22.23	Blue	1000
A2-1/8A	2.125	53.98	0.875	22.23	Blue	900
AR160A	2.125	54.00	1.094	27.80	Red	300
A2-1/4A	2.250	57.15	1.250	31.75	Blue	450
A2-3/8A	2.375	60.33	0.875	22.23	Blue	700
A2-1/2A	2.500	63.50	0.875	22.23	Blue	600
AS2-9/16A	2.563	65.09	0.375	9.53	Blue	1200
A2-19/32W/RA	2.575	65.40	1.000	25.40	Blue	500
A2-5/8A	2.615	66.42	1.000	25.40	Blue	425
A2-3/4A	2.725	69.22	1.090	27.68	Blue	450
A3A	2.980	75.69	1.000	25.40	Blue	400
A3-1/8A	3.125	79.38	1.375	34.93	Blue	250
A3-1/4A	3.250	82.55	1.875	47.63	Blue	150
A3-1/2A	3.500	88.90	1.000	25.40	Blue	300
A3-3/4A	3.740	94.99	1.000	25.40	Blue	225
A4A	3.990	101.34	1.000	25.40	Blue	200
A4-1/8A	4.115	104.52	1.000	25.40	Blue	200
AR165A	4.331	110.00	1.362	34.60	Yellow	150

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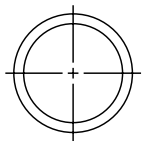
DM & DMS Series
Round Vinyl End Caps



Specifications:
- Material: Vinyl (PVC)
- Color: DM – Black – 75 Durometer
  DMS – Red – 63 Durometer
- Temperature Range: Up to 350°F (177°C)
- For high temperature up to 425°F (218°C) see page 71

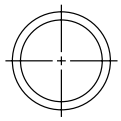
See pages 64 and 65 for Application Wizards.

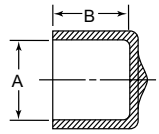
Features:
- Flexible material can stretch onto larger dimensions for a snug fit without tearing, splitting or shredding
- Typically used to protect threaded or non-threaded tubing, rods, pipe or paper tubes
- Glossy and attractive finish makes this part ideal for use as a decorative end cap
- Red colored parts are highly visible

A = To Fit		Item No. B Length				Bulk Pack Qty.		
in	mm	1/2 in (12.70 mm)	1 in (25.40 mm)	1 - 1/2 in (38.10 mm)	Color	1/2 in	1 in	1 - 1/2 in
0.078	1.98	DM0080-1/2A	DM0080-1A	—	Black	5000	5000	—
0.094	2.38	DM0093-1/2A	DM0093-1A	—	Black	5000	5000	—
0.109	2.78	DM0110-1/2A	DM0110-1A	—	Black	5000	5000	—
0.125	3.18	DM0125-1/2A	DM0125-1A	—	Black	5000	5000	—
0.125	3.18	—	DMS0125-1A	—	Red	—	5000	—
0.141	3.57	DM0140-1/2A	DM0140-1A	DM0140-1-1/2A	Black	5000	5000	5000
0.141	3.57	—	DMS0140-1A	—	Red	—	5000	—
0.148	3.76	DM0148-1/2A	DM0148-1A	DM0148-1-1/2A	Black	5000	5000	5000
0.156	3.97	DM0156-1/2A	DM0156-1A	DM0156-1-1/2A	Black	5000	5000	5000
0.172	4.37	DM0172-1/2A	DM0172-1A	DM0172-1-1/2A	Black	5000	5000	5000
0.172	4.37	—	DMS0172-1A	—	Red	—	5000	—
0.180	4.57	DM0180-1/2A	DM0180-1A	DM0180-1-1/2A	Black	5000	5000	5000
0.187	4.75	DM0187-1/2A	DM0187-1A	DM0187-1-1/2A	Black	5000	5000	5000
0.187	4.75	—	DMS0187-1A	—	Red	—	5000	—
0.203	5.16	DM0203-1/2A	DM0203-1A	DM0203-1-1/2A	Black	5000	5000	5000
0.203	5.16	—	DMS0203-1A	—	Red	—	5000	—
0.207	5.26	DM0207-1/2A	DM0207-1A	DM0207-1-1/2A	Black	5000	5000	5000
0.218	5.54	DM0218-1/2A	DM0218-1A	DM0218-1-1/2A	Black	5000	5000	5000
0.224	5.69	DM0224-1/2A	DM0224-1A	DM0224-1-1/2A	Black	5000	5000	5000
0.230	5.84	DM0230-1/2A	DM0230-1A	DM0230-1-1/2A	Black	5000	7500	5000
0.234	5.95	DM0234-1/2A	DM0234-1A	DM0234-1-1/2A	Black	5000	5000	3000
0.234	5.95	—	DMS0234-1A	—	Red	—	5000	—
0.240	6.10	DM0240-1/2A	DM0240-1A	DM0240-1-1/2A	Black	5000	5000	5000
0.250	6.35	DM0250-1/2A	DM0250-1A	DM0250-1-1/2A	Black	5000	5000	5000
0.250	6.35	DMS0250-1/2A	DMS0250-1A	—	Red	5000	5000	—
0.281	7.14	DM0281-1/2A	DM0281-1A	DM0281-1-1/2A	Black	5000	5000	5000
0.281	7.14	DMS0281-1/2A	DMS0281-1A	—	Red	5000	5000	—
0.290	7.37	DM0290-1/2A	DM0290-1A	DM0290-1-1/2A	Black	5000	5000	5000
0.304	7.72	DM0304-1/2A	DM0304-1A	DM0304-1-1/2A	Black	5000	5000	2500
0.313	7.94	DM0313-1/2A	DM0313-1A	DM0313-1-1/2A	Black	5000	5000	4000
0.313	7.94	DMS0313-1/2A	DMS0313-1A	—	Red	5000	5000	—
0.343	8.71	DM0343-1/2A	DM0343-1A	DM0343-1-1/2A	Black	5000	5000	4000
0.343	8.71	—	DMS0343-1A	—	Red	—	5000	—
0.360	9.14	DM0360-1/2A	DM0360-1A	DM0360-1-1/2A	Black	5000	5000	2500
0.375	9.53	DM0375-1/2A	DM0375-1A	DM0375-1-1/2A	Black	5000	5000	2500
0.375	9.53	DMS0375-1/2A	DMS0375-1A	—	Red	5000	5000	—
0.406	10.32	DM0406-1/2A	DM0406-1A	DM0406-1-1/2A	Black	5000	5000	5000
0.420	10.66	DM0420-1/2A	DM0420-1A	DM0420-1-1/2A	Black	5000	5000	5000
0.437	11.10	DM0437-1/2A	DM0437-1A	DM0437-1-1/2A	Black	5000	5000	4000
0.437	11.10	DMS0437-1/2A	DMS0437-1A	DMS0437-1-1/2A	Red	5000	5000	4000
0.460	11.68	DM0460-1/2A	DM0460-1A	DM0460-1-1/2A	Black	5000	3000	1500
0.470	11.94	DM0470-1/2A	DM0470-1A	DM0470-1-1/2A	Black	5000	5000	3000
0.470	11.94	—	DMS0470-1A	—	Red	—	5000	—
0.490	12.45	DM0490-1/2A	DM0490-1A	DM0490-1-1/2A	Black	5000	3000	1500
0.500	12.70	DM0500-1/2A	DM0500-1A	DM0500-1-1/2A	Black	5000	5000	2500
0.500	12.70	DMS0500-1/2A	DMS0500-1A	DMS0500-1-1/2A	Red	5000	5000	2500
0.523	13.28	DM0523-1/2A	DM0523-1A	DM0523-1-1/2A	Black	5000	2500	2500
0.531	13.49	DM0531-1/2A	DM0531-1A	DM0531-1-1/2A	Black	5000	5000	2500
0.531	13.49	—	DMS0531-1A	—	Red	—	5000	—
0.544	13.82	DM0544-1/2A	DM0544-1A	DM0544-1-1/2A	Black	5000	5000	2500
0.544	13.82	—	DMS0544-1A	—	Red	—	5000	—
0.562	14.27	DM0562-1/2A	DM0562-1A	DM0562-1-1/2A	Black	5000	2500	3000
0.562	14.27	DMS0562-1/2A	DMS0562-1A	DMS0562-1-1/2A	Red	5000	2500	3000
0.587	14.90	DM0587-1/2A	DM0587-1A	DM0587-1-1/2A	Black	5000	2500	1200
0.600	15.24	DM0600-1/2A	DM0600-1A	DM0600-1-1/2A	Black	5000	2000	1200
0.625	15.88	DM0625-1/2A	DM0625-1A	DM0625-1-1/2A	Black	5000	2500	1250
0.625	15.88	DMS0625-1/2A	DMS0625-1A	DMS0625-1-1/2A	Red	5000	2500	1250
0.640	16.26	DM0640-1/2A	DM0640-1A	DM0640-1-1/2A	Black	5000	5000	2500
0.665	16.89	DM0665-1/2A	DM0665-1A	DM0665-1-1/2A	Black	5000	2500	2500
0.687	17.45	DM0687-1/2A	DM0687-1A	DM0687-1-1/2A	Black	5000	2500	1500
0.687	17.45	DMS0687-1/2A	DMS0687-1A	DMS0687-1-1/2A	Red	5000	2500	1500
0.725	18.42	DM0725-1/2A	DM0725-1A	DM0725-1-1/2A	Black	5000	2500	1000
0.750	19.05	DM0750-1/2A	DM0750-1A	DM0750-1-1/2A	Black	5000	2500	500
0.750	19.05	DMS0750-1/2A	DMS0750-1A	DMS0750-1-1/2A	Red	5000	2500	500
0.812	20.62	DM0812-1/2A	DM0812-1A	DM0812-1-1/2A	Black	2500	2500	1000
0.812	20.62	DMS0812-1/2A	DMS0812-1A	DMS0812-1-1/2A	Red	2500	2500	1000
0.843	21.41	DM0843-1/2A	DM0843-1A	DM0843-1-1/2A	Black	5000	2500	1200
0.843	21.41	—	DMS0843-1A	—	Red	—	2500	—

PUSH-FIT CAPS

DM & DMS Series
Round Vinyl End Caps (continued)

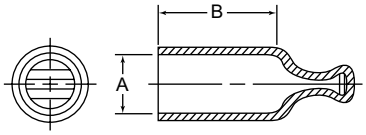




See pages 64 and 65 for Application Wizards.

A = To Fit		Item No. B Length				Bulk Pack Qty.		
in	mm	1/2 in (12.70 mm)	1 in (25.40 mm)	1 - 1/2 in (38.10 mm)	Color	1/2 in	1 in	1 - 1/2 in
0.875	22.23	DM0875-1/2A	DM0875-1A	DM0875-1-1/2A	Black	5000	2500	1250
0.875	22.23	DMS0875-1/2A	DMS0875-1A	DMS0875-1-1/2A	Red	5000	2500	1250
0.937	23.80	DM0937-1/2A	DM0937-1A	DM0937-1-1/2A	Black	2500	2500	1000
0.937	23.80	—	DMS0937-1A	—	Red	—	2500	—
0.985	25.02	DM0985-1/2A	DM0985-1A	DM0985-1-1/2A	Black	2500	1500	1250
1.000	25.40	DM1000-1/2A	DM1000-1A	DM1000-1-1/2A	Black	2500	2000	1250
1.000	25.40	DMS1000-1/2A	DMS1000-1A	DMS1000-1-1/2A	Red	2500	2000	1250
1.062	26.97	DM1062-1/2A	DM1062-1A	DM1062-1-1/2A	Black	3000	1500	1250
1.062	26.97	—	DMS1062-1A	—	Red	—	1500	—
1.090	27.69	DM1090-1/2A	DM1090-1A	DM1090-1-1/2A	Black	2000	1000	500
1.125	28.58	DM1125-1/2A	DM1125-1A	DM1125-1-1/2A	Black	1000	1000	500
1.125	28.58	DMS1125-1/2A	DMS1125-1A	DMS1125-1-1/2A	Red	1000	1000	500
1.187	30.15	DM1187-1/2A	DM1187-1A	DM1187-1-1/2A	Black	2500	1000	1000
1.187	30.15	—	DMS1187-1A	—	Red	—	1000	—
1.250	31.75	DM1250-1/2A	DM1250-1A	DM1250-1-1/2A	Black	2500	1000	700
1.250	31.75	DMS1250-1/2A	DMS1250-1A	DMS1250-1-1/2A	Red	2500	1000	700
1.312	33.32	DM1312-1/2A	DM1312-1A	DM1312-1-1/2A	Black	2000	1000	500
1.375	34.93	DM1375-1/2A	DM1375-1A	DM1375-1-1/2A	Black	2000	1000	650
1.375	34.93	—	DMS1375-1A	—	Red	—	1000	—
1.437	36.50	DM1437-1/2A	DM1437-1A	DM1437-1-1/2A	Black	1000	1000	600
1.500	38.10	DM1500-1/2A	DM1500-1A	DM1500-1-1/2A	Black	1000	1000	600
1.500	38.10	DMS1500-1/2A	DMS1500-1A	DMS1500-1-1/2A	Red	1000	1000	600
1.593	40.46	DM1593-1/2A	DM1593-1A	DM1593-1-1/2A	Black	1700	1000	500
1.625	41.28	DM1625-1/2A	DM1625-1A	DM1625-1-1/2A	Black	500	750	500
1.625	41.28	—	DMS1625-1A	DMS1625-1-1/2A	Red	—	750	500
1.687	42.85	DM1687-1/2A	DM1687-1A	DM1687-1-1/2A	Black	1000	500	400
1.687	42.85	—	DMS1687-1A	—	Red	—	500	—
1.750	44.45	DM1750-1/2A	DM1750-1A	DM1750-1-1/2A	Black	1000	500	500
1.750	44.45	—	DMS1750-1A	DMS1750-1-1/2A	Red	—	500	500
1.812	46.02	DM1812-1/2A	DM1812-1A	DM1812-1-1/2A	Black	1000	500	400
1.875	47.63	DM1875-1/2A	DM1875-1A	DM1875-1-1/2A	Black	700	625	400
1.875	47.63	—	DMS1875-1A	—	Red	—	625	—
1.937	49.19	DM1937-1/2A	DM1937-1A	DM1937-1-1/2A	Black	1000	550	400
2.000	50.80	DM2000-1/2A	DM2000-1A	DM2000-1-1/2A	Black	1000	550	400
2.000	50.80	DMS2000-1/2A	DMS2000-1A	DMS2000-1-1/2A	Red	1000	550	400
2.125	53.98	DM2125-1/2A	DM2125-1A	DM2125-1-1/2A	Black	500	400	300
2.125	53.98	—	DMS2125-1A	—	Red	—	400	—
2.156	54.76	DM2156-1/2A	DM2156-1A	DM2156-1-1/2A	Black	1000	550	250
2.250	57.15	DM2250-1/2A	DM2250-1A	DM2250-1-1/2A	Black	250	500	300
2.250	57.15	—	DMS2250-1A	DMS2250-1-1/2A	Red	—	500	300
2.375	60.33	DM2375-1/2A	DM2375-1A	DM2375-1-1/2A	Black	500	350	250
2.460	62.48	DM2460-1/2A	DM2460-1A	DM2460-1-1/2A	Black	1000	350	200
2.500	63.50	DM2500-1/2A	DM2500-1A	DM2500-1-1/2A	Black	500	300	200
2.500	63.50	—	DMS2500-1A	DMS2500-1-1/2A	Red	—	300	200
2.625	66.68	DM2625-1/2A	DM2625-1A	DM2625-1-1/2A	Black	500	250	250
2.687	68.25	DM2687-1/2A	DM2687-1A	DM2687-1-1/2A	Black	400	250	200
2.750	69.85	DM2750-1/2A	DM2750-1A	DM2750-1-1/2A	Black	500	250	250
2.750	69.85	—	DMS2750-1A	—	Red	—	250	—
2.875	73.03	DM2875-1/2A	DM2875-1A	DM2875-1-1/2A	Black	500	250	200
3.000	76.20	DM3000-1/2A	DM3000-1A	DM3000-1-1/2A	Black	500	300	200
3.000	76.20	—	DMS3000-1A	DMS3000-1-1/2A	Red	—	300	200
3.125	79.38	—	DM3125-1A	DM3125-1-1/2A	Black	—	250	150
3.125	79.38	—	DMS3125-1A	—	Red	—	250	150
3.250	82.55	—	DM3250-1A	DM3250-1-1/2A	Black	—	100	100
3.250	82.55	—	DMS3250-1A	—	Red	—	100	—
3.375	85.73	—	DM3375-1A	DM3375-1-1/2A	Black	—	200	150
3.500	88.90	DM3500-1/2A	DM3500-1A	DM3500-1-1/2A	Black	—	175	100
3.500	88.90	—	DMS3500-1A	—	Red	—	175	—
3.625	92.08	—	DM3625-1A	DM3625-1-1/2A	Black	—	150	100
3.750	95.25	—	DM3750-1A	DM3750-1-1/2A	Black	—	100	100
3.750	95.25	—	DMS3750-1A	—	Red	—	100	—
3.825	97.16	—	DM3825-1A	DM3825-1-1/2A	Black	—	150	100
3.875	98.43	—	DM3875-1A	DM3875-1-1/2A	Black	—	100	100
4.000	101.60	DM4000-1/2A	DM4000-1A	DM4000-1-1/2A	Black	—	150	100
4.000	101.60	—	DMS4000-1A	DMS4000-1-1/2A	Red	—	150	100
4.125	104.78	—	DM4125-1A	DM4125-1-1/2A	Black	—	100	100
4.187	106.35	—	DM4187-1A	DM4187-1-1/2A	Black	—	100	100
4.250	107.95	—	DM4250-1A	DM4250-1-1/2A	Black	—	150	100
4.375	111.13	—	DM4375-1A	DM4375-1-1/2A	Black	—	100	50
4.500	114.30	DM4500-1/2A	DM4500-1A	DM4500-1-1/2A	Black	—	150	75
4.750	120.65	—	DM4750-1A	DM4750-1-1/2A	Black	—	85	100
5.000	127.00	—	DM5000-1A	DM5000-1-1/2A	Black	—	125	50
5.187	131.75	—	DM5187-1A	DM5187-1-1/2A	Black	—	50	50
5.375	136.53	—	DM5375-1A	DM5375-1-1/2A	Black	—	100	50
5.500	139.70	DM5500-1/2A	DM5500-1A	DM5500-1-1/2A	Black	—	50	50
5.750	146.05	—	DM5750-1A	DM5750-1-1/2A	Black	—	50	50
6.000	152.40	—	DM6000-1A	DM6000-1-1/2A	Black	—	50	50
6.250	158.75	—	DM6250-1A	DM6250-1-1/2A	Black	—	50	50
6.500	165.10	DM6500-1/2A	DM6500-1A	DM6500-1-1/2A	Black	—	50	50
6.750	171.45	—	DM6750-1A	DM6750-1-1/2A	Black	—	25	50
7.000	177.80	—	DM7000-1A	DM7000-1-1/2A	Black	—	25	25
7.250	184.15	—	DM7250-1A	DM7250-1-1/2A	Black	—	50	50
7.500	190.50	—	DM7500-1A	DM7500-1-1/2A	Black	—	50	25
7.750	196.85	—	DM7750-1A	DM7750-1-1/2A	Black	—	50	50
8.000	203.20	—	DM8000-1A	DM8000-1-1/2A	Black	—	50	25

DMPC Series
Easy-Pull Vinyl Caps

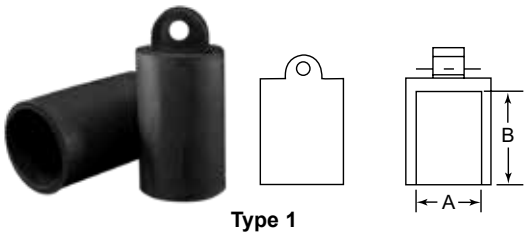


Specifications:
- Material: Vinyl (PVC)
- Color: Black
- Temperature Range: Up to 350°F (177°C)
- For high temperature up to 425°F (218°C) see page 71

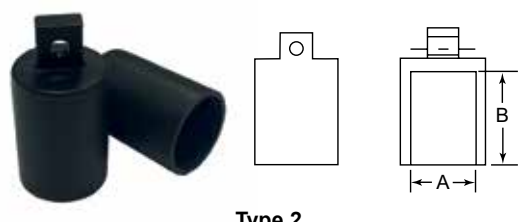
Features:
- The curved pull-tab design provides more surface contact area requiring less gripping force during installation and removal
- Flexible material can stretch onto larger dimensions for a snug fit without tearing, splitting or shredding
- Glossy and attractive finish makes this part ideal for use as a decorative end cap

A = To Fit		Item No.			Bulk Pack Qty.		
		B Length					
In	mm	1/2 in (12.70 mm)	1 in (25.40 mm)	1 - 1/2 in (38.10 mm)	1/2 in	1 in	1 - 1/2 in
0.187	4.75	DMPC0180-1/2A	DMPC0180-1A	—	5000	5000	—
0.218	5.54	DMPC0207-1/2A	DMPC0207-1A	—	5000	5000	—
0.250	6.35	DMPC0240-1/2A	DMPC0240-1A	—	5000	5000	—
0.302	7.67	DMPC0302-1/2A	DMPC0302-1A	DMPC0302-1-1/2A	7500	5000	2500
0.320	8.13	DMPC0320-1/2A	DMPC0320-1A	DMPC0320-1-1/2A	5000	5000	2500
0.343	8.71	DMPC0343-1/2A	DMPC0343-1A	DMPC0343-1-1/2A	5000	3000	2500
0.375	9.53	DMPC0365-1/2A	DMPC0365-1A	DMPC0365-1-1/2A	5000	3000	2000
0.406	10.32	DMPC0396-1/2A	DMPC0396-1A	DMPC0396-1-1/2A	5000	5000	2500
0.420	10.67	DMPC0420-1/2A	DMPC0420-1A	DMPC0420-1-1/2A	5000	5000	2500
0.437	11.10	DMPC0427-1/2A	DMPC0427-1A	DMPC0427-1-1/2A	5000	4000	2500
0.450	11.43	DMPC0450-1/2A	DMPC0450-1A	DMPC0450-1-1/2A	5000	4000	2500
0.472	11.99	DMPC0470-1/2A	DMPC0470-1A	DMPC0470-1-1/2A	5000	4000	2500
0.500	12.70	DMPC0490-1/2A	DMPC0490-1A	DMPC0490-1-1/2A	5000	4000	2000
0.531	13.49	DMPC0521-1/2A	DMPC0521-1A	DMPC0521-1-1/2A	5000	4000	2500
0.562	14.27	DMPC0552-1/2A	DMPC0552-1A	DMPC0552-1-1/2A	2500	2500	2500
0.593	15.06	DMPC0590-1/2A	DMPC0590-1A	DMPC0590-1-1/2A	2500	1900	1500
0.600	15.24	DMPC0600-1/2A	DMPC0600-1A	DMPC0600-1-1/2A	5000	2500	2500
0.615	15.62	DMPC0615-1/2A	DMPC0615-1A	DMPC0615-1-1/2A	5000	2500	2000
0.625	15.88	DMPC0625-1/2A	DMPC0625-1A	DMPC0625-1-1/2A	2500	1350	1500
0.655	16.64	DMPC0655-1/2A	DMPC0655-1A	DMPC0655-1-1/2A	2000	2500	1500
0.677	17.20	DMPC0677-1/2A	DMPC0677-1A	DMPC0677-1-1/2A	5000	2500	1500
0.687	17.45	DMPC0687-1/2A	DMPC0687-1A	DMPC0687-1-1/2A	2500	2000	1500
0.708	17.98	DMPC0708-1/2A	DMPC0708-1A	DMPC0708-1-1/2A	2500	2000	1500
0.750	19.05	DMPC0740-1/2A	DMPC0740-1A	DMPC0740-1-1/2A	4000	2500	1500
0.812	20.62	DMPC0812-1/2A	DMPC0812-1A	DMPC0812-1-1/2A	2500	2000	750
0.875	22.23	DMPC0865-1/2A	DMPC0865-1A	DMPC0865-1-1/2A	1500	1500	750
0.937	23.79	DMPC0937-1/2A	DMPC0937-1A	DMPC0937-1-1/2A	1500	1500	750
1.000	25.40	DMPC0990-1/2A	DMPC0990-1A	DMPC0990-1-1/2A	1500	1500	750
1.060	26.92	—	DMPC1060-1A	DMPC1060-1-1/2A	—	1000	700
1.125	28.58	—	DMPC1125-1A	DMPC1125-1-1/2A	—	1000	700
1.250	31.75	—	DMPC1230-1A	DMPC1230-1-1/2A	—	1000	700
1.500	38.10	—	DMPC1500-1A	DMPC1500-1-1/2A	—	700	250
1.625	41.28	—	DMPC1605-1A	DMPC1605-1-1/2A	—	550	350

FEC Series
Flexible End Caps



Type 1



Type 2

LINE EXTENSION

Specifications:
- Material: Thermoplastic Elastomer
- Temperature Range: 203°F (95°C)
- Color: Black

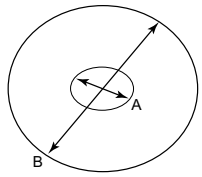
Features:
- Flexible material can stretch onto larger diameters for a snug fit
- Good resistance to acids
- Can be used with Masking Hooks on page 85

Item No.	Type	A In	A mm	B In	B mm	Bulk Pack Qty.
• 1340242	2	0.157	4.0	0.945	24.0	10000
12200B	1	0.197	5.0	0.925	23.5	10000
• 1341946	2	0.236	6.0	0.984	25.0	10000
• 1287248	2	0.276	7.0	0.945	24.0	10000
• 1287251	2	0.315	8.0	0.965	24.5	8000
12204B	1	0.354	9.0	0.984	25.0	7000
• 1341978	2	0.394	10.0	1.161	29.5	5000
• 1341987	2	0.433	11.0	1.142	29.0	4500
12207B	1	0.472	12.0	1.142	29.0	4000
• 1341981	2	0.512	13.0	1.142	29.0	3500
12209B	1	0.551	14.0	1.161	29.5	3000
12210B	1	0.591	15.0	1.161	29.5	2500
12211B	1	0.630	16.0	1.102	28.0	2500
12212B	1	0.669	17.0	1.161	29.5	2000

Item No.	Type	A In	A mm	B In	B mm	Bulk Pack Qty.
12213B	2	0.709	18.0	1.122	28.5	2000
• 1287245	2	0.748	19.0	1.161	29.5	2000
• 1341984	2	0.787	20.0	1.122	28.5	1600
12216B	1	0.827	21.0	1.358	34.5	1300
12217B	2	0.866	22.0	1.339	34.0	1200
12218B	2	0.906	23.0	1.358	34.5	1000
• 1341988	2	0.945	24.0	1.339	34.0	1000
12220B	2	0.984	25.0	1.358	34.5	1000
12221B	2	1.024	26.0	1.358	34.5	900
12222B	2	1.063	27.0	1.319	33.5	900
• 1287254	2	1.102	28.0	1.319	33.5	800
12224B	2	1.142	29.0	1.378	35.0	800
• 1287243	2	1.181	30.0	1.358	34.5	600

PUSH-FIT CAPS

MCP Series
Stretch Fit Cover Caps

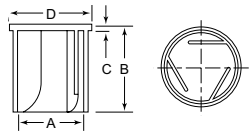


Specifications:
- Material: Polyethylene
- Color: See Table

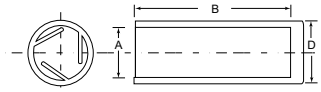
Features:
- Capable of covering a wide range of part diameters and shapes
- Protects against dirt and moisture during storage and shipping
- Reusable

Item No.		A= Elastic Ø		B= Flat Overall Ø		Bulk Pack Qty.
Blue	Clear	in	mm	in	mm	
MCP050B	MCP050N	1.00	25.40	3.00	76.20	1000
MCP100B	MCP100N	1.22	30.99	3.78	96.01	1000
MCP105B	MCP105N	1.25	50.80	8.00	203.20	500
MCP110B	MCP110N	1.50	38.10	4.50	114.30	1000
MCP120B	MCP120N	2.00	50.80	5.75	146.05	1000
MCP125B	MCP125N	2.50	63.50	10.00	254.00	500
MCP130B	MCP130N	2.44	61.98	8.66	219.96	500
MCP140B	MCP140N	3.07	77.98	9.45	240.03	500
MCP145B	MCP145N	3.50	88.90	18.00	457.20	300
MCP150B	MCP150N	4.25	107.95	13.00	330.20	250
MCP155B	MCP155N	5.75	146.05	24.00	609.60	200
MCP160B	MCP160N	5.00	127.00	15.95	405.13	250
MCP165B	MCP165N	6.50	165.10	32.00	812.80	100

MFC Series
Finned Stud Caps



Type 1



Type 2

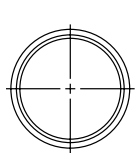
Specifications:
- Material: Low-Density Polyethylene
- Color: Natural

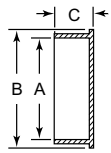
Features:
- Unique finned design enables each cap to fit a range of stud diameters
- The MFC010A* has beveled corners

Item No.	Stud Size Range		Type	A		B		C		D		Bulk Pack Qty.
	in	mm		in	mm	in	mm	in	mm	in	mm	
MFC110A	0.255 - 0.314	6.5 - 8.0	1	0.394	10	0.866	22	0.059	1.5	0.551	14.0	500
MFC010A*	0.255 - 0.314	6.5 - 8.0	2	0.394	10	1.299	33	—	—	0.433	11.0	5000
MFC120A	0.314 - 0.354	8.0 - 9.0	1	0.433	11	0.866	22	0.059	1.5	0.591	15.0	500
MFC020A	0.314 - 0.354	8.0 - 9.0	2	0.433	11	0.866	22	—	—	0.472	12.0	5000
MFC030A	0.354 - 0.393	9.0 - 10	2	0.472	12	0.866	22	—	—	0.511	13.0	5000
MFC130A	0.354 - 0.413	9.0 - 10.5	1	0.492	12.5	0.866	22	0.059	1.5	0.650	16.5	250
MFC140A	0.433 - 0.512	11.0 - 13.0	1	0.630	16	0.866	22	0.059	1.5	0.787	20.0	250
MFC150A	0.551 - 0.629	14.0 - 16.0	1	0.709	18	0.866	22	0.059	1.5	0.866	22.0	250
MFC160A	0.669 - 0.748	17.0 - 19.0	1	0.866	22	0.866	22	0.059	1.5	1.024	26.0	100
MFC170A	0.787 - 0.866	20.0 - 22.0	1	0.984	25	0.984	25	0.059	1.5	1.142	29.0	100
MFC180A	0.944 - 1.023	24.0 - 26.0	1	1.142	29	1.181	30	0.059	1.5	1.299	33.0	100
MFC190A	1.102 - 1.181	28.0 - 30.0	1	1.299	33	1.339	34	0.059	1.5	1.457	37.0	100

MC Series
Meter Caps

NEW





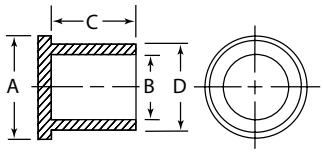
Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- Designed to protect threads on gas and water meters
- Remains on the unit until it is installed

Item No.	Thread Size	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
MC10LT	10LT	1.415	35.9	1.670	42.4	0.640	16.3	1500
MC1S	#1 Sprague	1.600	40.6	1.820	46.2	0.610	15.5	1200
MC20LT	20LT	1.808	45.9	2.070	52.6	0.640	16.3	1000
MC2S	#2 Sprague	1.850	47.0	2.110	53.6	0.640	16.3	1000
MC30LT	30 LT	2.028	51.5	2.290	58.2	0.670	17.0	750
MC45LT	45LT	2.252	57.2	2.510	63.8	0.870	22.1	500
MC3S	#3 Sprague	2.316	58.8	2.580	65.5	0.940	23.9	500

PUSH-FIT CAPS FOR THREADS

E Series
Flanged Caps for Standard Threads



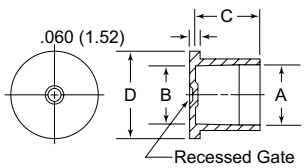
LINE EXTENSION

Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

Features:
- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect standard threads with or without O-Rings

Item No.		To Cap Standard Thread	A		B		C		D		Bulk Pack Qty.
Natural	Orange		in	mm	in	mm	in	mm	in	mm	
• E5/16C	• E5/16A	5/16	0.510	12.95	0.315	8.00	0.840	21.33	0.377	9.57	5000
—	E3/8A	3/8	0.531	13.49	0.364	9.25	0.590	16.67	0.428	10.87	5000
E3/8AA	—	3/8	0.580	14.73	0.377	9.58	0.840	21.34	0.447	11.35	5000
EL3/8B	EL3/8A	3/8	0.520	13.21	0.370	9.40	1.280	32.51	0.440	11.18	5000
E7/16A	—	7/16	0.625	15.88	0.428	10.87	0.590	14.99	0.492	12.50	4250
E7/16CATB	—	7/16	0.625	15.88	0.429	10.90	0.600	15.24	0.491	12.47	4250
EL7/16B	EL7/16A	7/16	0.580	14.73	0.428	10.87	1.020	25.91	0.495	12.57	5000
—	EL7/16AA	7/16	0.580	14.73	0.425	10.79	1.330	33.98	0.487	12.37	2800
E1/2A	—	1/2	0.720	18.29	0.490	12.45	0.460	11.68	0.550	13.97	4000
EL1/2A	—	1/2	0.640	16.25	0.490	12.45	1.330	33.78	0.552	14.02	2800
EL9/16A	—	9/16	0.700	17.78	0.550	13.97	1.410	35.81	0.620	15.75	2500
E9/16A	—	9/16	0.810	20.57	0.551	14.00	0.490	12.45	0.621	15.77	5900
E5/8B	E5/8A	5/8	0.813	20.64	0.606	15.39	0.750	19.05	0.677	17.20	4000
EL5/8A	—	5/8	0.760	19.30	0.625	15.88	0.840	21.34	0.687	17.48	3000
E11/16B	—	11/16	0.935	23.75	0.675	17.14	0.500	17.15	0.745	12.70	4000
-	EL11/16A	11/16	0.840	21.33	0.678	17.22	0.880	22.35	0.748	18.99	2500
E3/4B	E3/4A	3/4	1.000	25.40	0.720	18.29	0.688	17.46	0.794	20.17	3000
E3/4CATA	—	3/4	1.000	25.40	0.729	18.52	0.625	15.88	0.786	19.96	3000
EL3/4D	EL3/4A	3/4	0.890	22.61	0.740	18.80	1.540	39.12	0.813	20.65	2500
E13/16A	—	13/16	1.060	26.92	0.800	20.32	0.570	14.48	0.870	22.10	2500
—	K324A	13/16	1.060	20.64	0.605	15.37	0.845	21.50	0.665	16.89	3500
E7/8SA	—	7/8	1.120	28.45	0.864	21.95	0.690	17.53	0.926	23.52	4000
—	E7/8A	7/8	1.096	27.84	0.860	21.84	0.875	22.23	0.933	23.70	3500
E7/8CATB	—	7/8	1.096	27.84	0.865	21.97	0.832	21.13	0.921	23.39	3500
EL7/8B	EL7/8A	7/8	1.010	25.65	0.860	21.84	1.700	43.18	0.929	23.60	2000
E1A	—	1	1.246	31.65	0.993	25.22	0.660	16.76	1.056	26.82	1500
—	E1-1/16A	1 - 1/16	1.187	30.15	1.030	26.16	1.062	27.98	1.092	27.74	2000
E1-1/16CATB	—	1 - 1/16	1.288	32.72	1.043	26.49	0.688	17.48	1.114	28.30	2800
E1-3/16B	—	1 - 3/16	1.432	36.37	1.172	29.77	0.760	19.30	1.242	31.55	2000
E1-5/16B	—	1 - 5/16	1.567	39.80	1.302	33.07	0.760	19.30	1.372	34.85	1800
E1-7/16B	—	1 - 7/16	1.697	43.10	1.432	36.37	0.760	19.30	1.502	38.15	1500
E1-5/8B	—	1 - 5/8	1.875	47.63	1.615	41.02	0.835	21.21	1.685	42.80	1100
E1-11/16B	—	1 - 11/16	1.928	48.97	1.668	42.37	0.835	21.21	1.738	44.15	1000
E1-7/8A	E1-7/8B	1 - 7/8	2.131	54.13	1.871	47.52	0.960	24.38	1.941	49.30	900
E2B	E2A	2	2.256	57.30	1.994	50.65	1.085	27.56	2.064	52.43	600
E2-1/2A	—	2 - 1/2	2.756	70.00	2.491	63.27	1.210	30.73	2.566	65.18	350

ECS Series
Flanged Caps for NPT Threads



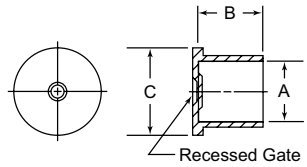
Specifications:
- Material: Low-Density Polyethylene
- Color: Natural

Features:
- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect NPT threads with or without O-Rings

Item No.	To Cap NPT Thread	A		B		C		D		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	
ECS0125A	1/8"	0.399	10.13	0.383	9.73	0.380	9.65	0.660	16.76	10000
ECS0250A	1/4"	0.533	13.54	0.510	12.90	0.530	13.46	0.810	20.57	9000
ECS0375A	3/8"	0.669	16.99	0.644	16.36	0.530	13.46	0.940	23.88	5000
ECS0500A	1/2"	0.833	21.16	0.800	20.32	0.720	18.29	1.090	27.69	3000
ECS0750A	3/4"	1.045	26.54	1.011	25.68	0.750	19.05	1.310	33.27	2000
ECS1000A	1"	1.310	33.27	1.267	32.18	0.930	23.62	1.560	39.62	1000
ECS1250A	1 - 1/4"	1.655	42.04	1.611	40.92	0.970	24.64	1.940	49.28	800
ECS1500A	1 - 1/2"	1.893	48.08	1.848	46.94	0.970	24.64	2.160	54.86	600
ECS2000A	2"	2.370	60.20	2.323	59.00	1.030	26.16	2.620	66.55	500

PUSH-FIT CAPS FOR THREADS

ECM Series
Flanged Caps for Metric Threads



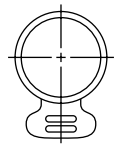
Specifications:
- Material: Low-Density Polyethylene
- Color: Natural

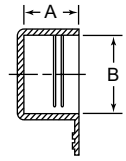
Features:
- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect metric threads with or without O-Rings

Item No.	To Cap Metric Thread	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
ECM10A	M10	0.385	9.78	0.665	16.89	0.530	13.50	8000
ECM12A	M12	0.463	11.75	0.470	11.95	0.768	19.50	7000
ECM14A	M14	0.540	13.72	0.470	11.95	0.846	21.50	5000
ECM16A	M16	0.617	15.67	0.470	11.95	0.925	23.50	5000
ECM18A	M18	0.696	17.68	0.470	11.95	1.004	25.50	3000

Item No.	To Cap Metric Thread	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
ECM20A	M20	0.774	19.66	0.553	14.05	1.083	27.50	2500
ECM22A	M22	0.855	21.72	0.553	14.05	1.161	29.50	3000
ECM33A	M33	1.285	32.64	0.687	17.45	1.590	40.39	2000
ECM38A	M38	1.481	37.62	0.748	19.00	1.751	44.50	1000
ECM42A	M42	1.640	41.68	0.748	19.00	1.948	49.50	1000

TS Series
Tear Tab Caps for SAE/JIC Threads





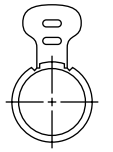
Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

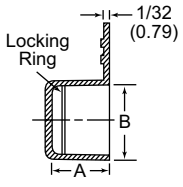
Features:
- Designed with a tear tab for easy removal
- Made to protect standard threads from damage but versatile enough to be used in numerous applications

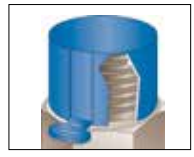
Item No.		To Cap Standard Thread	SAE/JIC Fitting Size	A		B		Bulk Pack Qty.
Natural	Blue			in	mm	in	mm	
TS3B	TS3A	3/8" - 24	3	0.437	11.10	0.364	9.25	6500
TS4B	TS4A	7/16" - 20	4	0.460	11.68	0.433	11.00	5500
TS5B	TS5A	1/2" - 20	5	0.460	11.68	0.490	12.45	4500
TS6B	TS6A	9/16" - 18	6	0.475	12.07	0.551	14.00	7000
TS7B	TS7A	11/16" - 16	7	0.475	12.07	0.675	17.15	5000
TS8B	TS8A	3/4" - 16	8	0.560	14.22	0.740	18.80	3500
TS9B	TS9A	13/16" - 16	9	0.560	14.22	0.802	20.37	3000
TS10B	TS10A	7/8" - 14	10	0.650	16.51	0.873	22.17	4500
TS11B	TS11A	1" - 14	11	0.650	16.51	0.986	25.04	4000
TS12B	TS12A	1-1/16" - 12	12	0.750	19.05	1.053	26.75	3000
TS13B	TS13A	1-3/16" - 12	13	0.750	19.05	1.172	29.77	2700
TS16B	TS16A	1-5/16" - 12	16	0.750	19.05	1.302	33.07	2200
TS17B	TS17A	1-7/16" - 12	17	0.750	19.05	1.432	36.37	2000
TS20B	TS20A	1-5/8" - 12	20	0.825	20.96	1.615	41.02	1300
TS21B	TS21A	1-11/16" - 12	21	0.825	20.96	1.668	42.37	1200
TS24B	TS24A	1-7/8" - 12	24	0.950	24.13	1.871	47.52	900
TS32B	TS32A	2-1/2" - 12	32	1.200	30.48	2.491	63.27	400

Y Series
Tear Tab Caps for NPT Threads

See pages 64 and 65 for Application Wizards.







Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

Features:
- Designed with a tear tab for easy removal
- Made to protect NPT threads from damage but versatile enough to be used in numerous applications

Item No.		To Cap NPT Thread	A		B		Bulk Pack Qty.
Natural	Blue		in	mm	in	mm	
Y1/8B	Y1/8A	1/8	0.320	8.13	0.386	9.80	5000
Y1/4N	Y1/4A	1/4	0.490	12.45	0.531	13.49	4000
Y3/8B	Y3/8A	3/8	0.490	12.45	0.665	16.89	5500
Y1/2B	Y1/2A	1/2	0.640	16.26	0.817	20.75	5500
Y3/4D	Y3/4A	3/4	0.630	16.00	1.033	26.24	4000
Y1B	Y1A	1	0.785	19.94	1.305	33.15	2000
Y1-1/4N	Y1-1/4A	1 - 1/4	0.840	21.34	1.643	41.73	1300
Y1-1/2E	Y1-1/2A	1 - 1/2	0.850	21.59	1.884	47.85	1000
Y2B	Y2A	2	0.890	22.61	2.339	59.41	600
Y2-1/2N	—	2 - 1/2	1.375	34.93	2.850	72.39	500
Y3N	—	3	1.437	36.50	3.475	88.27	250
Y3-1/2N	—	3 - 1/2	1.500	38.10	3.980	101.09	200
Y4N	—	4	1.500	38.10	4.480	113.79	150
Y5N	—	5	1.625	41.28	5.535	140.59	100
Y6N	—	6	1.700	43.18	6.600	167.64	50

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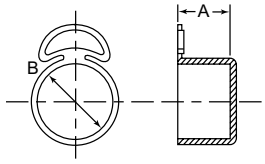
PUSH-FIT CAPS FOR THREADS

TSM Series
Tear Tab Caps for Metric Threads

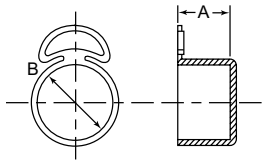


Specifications:
- Material: Low-Density Polyethylene
- Color: Refer to Chart

Features:
- Designed with a tear tab for easy removal
- Made to protect metric threads from damage but versatile enough to be used in numerous applications

Item No.	To Cap Metric Thread	A		B		Color	Bulk Pack Qty.
		in	mm	in	mm		
TSM12A	M12	0.472	12.00	0.472	12.00	Yellow	5000
TSM14A	M14	0.551	14.00	0.555	14.10	Yellow	5000
TSM16A	M16	0.634	16.10	0.650	16.50	Yellow	5000
TSM18A	M18	0.709	18.00	0.709	18.00	Yellow	4000
TSM20B	M20	0.787	20.00	0.787	20.00	Natural	2000
TSM22A	M22	0.866	22.00	0.866	22.00	Yellow	2000

TSB Series
Tear Tab Caps for BSP Threads

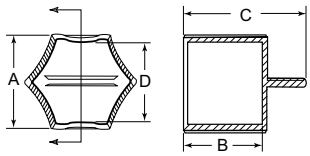


Specifications:
- Material: Low-Density Polyethylene
- Color: Yellow

Features:
- Designed with a tear tab for easy removal
- Made to protect BSP/Gas threads from damage but versatile enough to be used in numerous applications

Item No.	To Cap BSP/Gas Thread	A		B		Bulk Pack Qty.
		in	mm	in	mm	
TSB10351A	1/4" x 19	0.433	11.00	0.512	13.00	10000
TSB10492A	3/8" x 19	0.472	12.00	0.630	16.00	5000
TSB10308A	1/2" x 14	0.591	15.00	0.835	21.20	4000
TSB12373A	5/8" x 14	0.728	18.50	0.906	23.00	3000
TSB10701A	3/4" x 14	0.937	23.80	1.035	26.30	1500
TSB12375A	7/8" x 14	0.984	25.00	1.161	29.50	1500
TSB12376A	1" x 11	0.709	18.00	1.339	34.00	1500

HEX Series
Hexagonal Caps



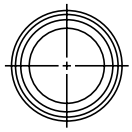
Specifications:
- Material: Polyethylene
- Color: Natural

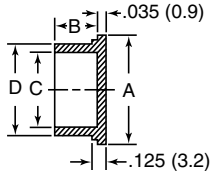
Features:
- Rigid design allows easy application and removal
- Available in all common hydraulic coupling sizes
- Also suitable for protecting round components

Item No.	To Fit Thread Sizes			A		B		C		D		Bulk Pack Qty.
	UNF	Metric	BSP	in	mm	in	mm	in	mm	in	mm	
HEX100A	—	M10	—	0.433	11	0.630	16	1.102	28	0.421	10.7	500
HEX105A	7/16	M12	1/8	0.551	14	0.709	18	1.181	30	0.539	13.7	500
HEX110A	—	—	—	0.630	16	0.787	20	1.260	32	0.618	15.7	500
HEX115A	1/2	M14	—	0.669	17	0.787	20	1.260	32	0.657	16.7	500
HEX120A	9/16	M16	1/4	0.748	19	0.984	25	1.535	39	0.736	18.7	500
HEX125A	3/4	M18	3/8	0.866	22	0.984	25	1.535	39	0.850	21.6	500
HEX130A	—	—	—	0.945	24	1.102	28	1.654	42	0.929	23.6	500
HEX135A	—	—	—	0.984	25	1.102	28	1.654	42	0.969	24.6	250
HEX140A	7/8	M22	1/2	1.063	27	1.102	28	1.654	42	1.047	26.6	250
HEX145A	—	—	—	1.142	29	1.181	30	1.732	44	1.126	28.6	250
HEX150A	—	M24	5/8	1.181	30	1.181	30	1.732	44	1.165	29.6	250
HEX155A	1 - 1/16	M26	3/4	1.260	32	1.181	30	1.732	44	1.244	31.6	250
HEX160A	—	M30	—	1.417	36	1.181	30	1.732	44	1.398	35.5	250
HEX165A	—	—	—	1.496	38	1.220	31	1.772	45	1.476	37.5	100
HEX170A	1 - 5/16	M36	1	1.614	41	1.220	31	1.772	45	1.594	40.5	100
HEX175A	—	—	—	1.811	46	1.260	32	1.811	46	1.791	45.5	100
HEX180A	1 - 5/8	M45	1 - 1/4	1.969	50	1.260	32	1.811	46	1.949	49.5	100

PUSH-FIT CAPS FOR THREADS

FC CAP Series
Circular Connector Cap



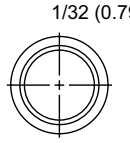


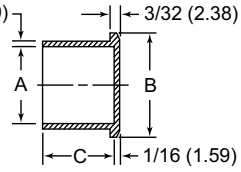
Specifications:
- Material: Low-Density Polyethylene
- Color: Red

Features:
- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect electrical connectors per Mil Spec 90376
- See page 47 if plug is needed

Item No.	MS90376 Dash No.	To Cap Connector	A		B		C		D		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	
FC708A	MS90376-8R	1/2	0.740	18.80	0.500	12.70	0.480	12.19	0.540	13.72	5000
FC710A	MS90376-10R	5/8	0.840	21.34	0.500	12.70	0.605	15.37	0.665	16.89	6000
FC712A	MS90376-12R	3/4	0.970	24.62	0.500	12.70	0.720	18.29	0.775	19.69	5500
FC714A	MS90376-14R	7/8	1.125	28.58	0.500	12.70	0.850	21.59	0.905	22.99	3000
FC716A	MS90376-16R	1	1.220	30.99	0.500	12.70	0.973	24.71	1.035	26.29	3300
FC718A	MS90376-18R	1 - 1/8	1.330	33.78	0.562	14.27	1.093	27.76	1.155	29.34	2500
FC19RA	MS90376-19R	1 - 3/16	1.430	36.32	0.562	14.27	1.168	29.67	1.238	31.45	2300
FC720A	MS90376-20R	1 - 1/4	1.465	37.21	0.562	14.27	1.231	31.27	1.301	33.05	2200
FC722A	MS90376-22R	1 - 3/8	1.580	40.39	0.562	14.27	1.340	34.04	1.410	35.81	1800
FC23RA	MS90376-23R	1 - 7/16	1.650	41.91	0.562	14.27	1.408	35.76	1.478	37.54	1200
FC724A	MS90376-24R	1 - 1/2	1.709	43.41	0.562	14.27	1.463	37.16	1.533	38.94	1500
FC726A	MS90376-26R	1 - 5/8	1.810	45.97	0.562	14.27	1.590	40.39	1.660	42.16	1250
FC728A	MS90376-28R	1 - 3/4	1.950	49.53	0.562	14.27	1.715	43.56	1.790	45.47	1000
FC732A	MS90376-32R	2	2.220	56.39	0.562	14.27	1.965	49.91	2.040	51.82	900
FC736A	MS90376-36R	2 - 1/4	2.435	61.85	0.600	15.24	2.215	56.26	2.290	58.17	700
FC740A	MS90376-40R	2 - 1/2	2.660	67.56	0.600	15.24	2.440	61.98	2.530	64.26	550
FC744A	MS90376-44R	2 - 3/4	2.960	75.18	0.600	15.24	2.720	69.09	2.812	71.42	450

D Series
Flanged Connector Caps





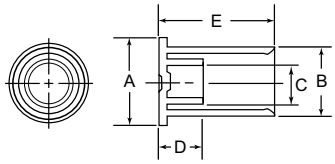
Specifications:
- Material: Low-Density Polyethylene
- Color: Red

Features:
- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect connectors with standard threads

Item No.	To Cap Std. Threaded Connector	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
D1/4A	1/4	0.240	6.10	0.480	12.19	0.500	12.70	5000
D3/8A	3/8	0.360	9.14	0.625	15.88	0.500	12.70	5000
D1/2A	1/2	0.477	12.12	0.750	19.05	0.500	12.70	7000
D9/16A	9/16	0.551	14.00	0.781	19.84	0.500	12.70	6000
D5/8A	5/8	0.593	15.06	0.875	22.23	0.500	12.70	4500
D3/4A	3/4	0.716	18.19	1.000	25.40	0.487	12.37	3500
D7/8A	7/8	0.841	21.36	1.125	28.58	0.491	12.47	2500
D15/16A	15/16	0.930	23.62	1.156	29.36	0.547	13.89	2000
D1A	1	0.960	24.38	1.250	31.75	0.500	12.70	2000
D1-1/8A	1 - 1/8	1.092	27.74	1.375	34.93	0.563	14.29	1500
D1-3/16A	1 - 3/16	1.176	29.87	1.438	36.51	0.563	14.29	3000
D1-1/4A	1 - 1/4	1.207	30.66	1.500	38.10	0.563	14.29	3000
D1-3/8A	1 - 3/8	1.348	34.24	1.625	41.28	0.563	14.29	2500
D1-7/16A	1 - 7/16	1.407	35.74	1.688	42.86	0.563	14.29	2200
D1-1/2A	1 - 1/2	1.458	37.03	1.719	43.66	0.563	14.29	2000
D1-3/4A	1 - 3/4	1.730	43.94	1.969	50.01	0.563	14.29	1500

PUSH-FIT CAPS FOR THREADS

OFR Series
O-Ring Face-Fitting Caps for UNF/JIC Threads



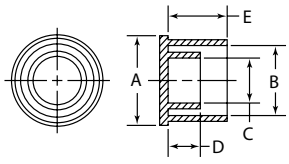
Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

Features:
- Designed to protect O-Ring face seal connectors used on hydraulic connections
- Designed with a longer overall length and includes a molded retaining ring at the bottom that snaps under the connector for added security

Item No. Blue	To Cap UNF Thread	A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	Bulk Pack Qty.
OFR4B	9/16" - 18	0.938	23.80	0.771	19.58	0.500	12.70	0.330	8.30	0.690	17.50	3000
OFR6B	11/16" - 16	1.125	28.40	0.903	22.93	0.625	16.00	0.370	9.40	0.770	19.60	2500
OFR8A	13/16" - 16	1.219	31.00	1.052	26.72	0.750	19.10	0.430	10.90	0.930	23.60	3000
OFR10A	1" - 14	1.438	36.50	1.255	31.50	0.906	23.00	0.530	13.50	1.040	26.40	2000
OFR12A	1 - 3/16" - 12	1.688	42.70	1.530	38.86	1.093	27.70	0.570	14.50	1.140	28.80	1200
OFR16A	1 - 7/16" - 12	2.000	50.80	1.804	45.82	1.343	34.10	0.580	14.70	1.210	30.70	900
OFR20A	1 - 11/16" - 12	2.250	57.20	2.093	53.16	1.593	40.50	0.580	14.70	1.210	30.70	700
OFR24A	2" - 12	2.719	69.00	2.520	64.01	1.875	47.60	0.580	14.70	1.210	30.70	450

Item No. Blue	Item No. Red	To Cap JIC Thread	JIC Fitting Size	A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	Bulk Pack Qty.
OFR100A	OFR100B	7/16" - 20	4	0.770	19.60	0.712	18.08	0.370	9.40	0.420	10.67	0.710	18.03	3000
OFR110A	OFR110B	9/16" - 18	6	0.950	24.10	0.864	21.95	0.500	12.80	0.420	10.67	0.840	21.34	2500
OFR120A	OFR120B	3/4" - 16	8	1.160	29.30	1.067	27.10	0.670	17.00	0.430	10.92	0.930	23.62	1200
OFR130A	OFR130B	7/8" - 14	10	1.280	32.50	1.192	30.28	0.780	19.80	0.500	12.70	1.050	26.67	1200
OFR140A	OFR140B	1 - 1/16" - 12	12	1.580	40.10	1.489	37.82	0.960	24.40	0.570	14.48	1.150	29.21	1200
OFR150A	OFR150B	1 - 5/16" - 12	16	1.880	47.80	1.766	44.86	1.220	30.90	0.590	14.99	1.210	30.73	1000

OR Series
O-Ring Face-Fitting Caps for UNF Threads



Specifications:
- Material: Low-Density Polyethylene
- Color: Blue

Features:
- Designed to protect O-Ring face seal connectors used on hydraulic connections

Item No.	To Cap UNF Thread	A In	A mm	B In	B mm	C In	C mm	D In	D mm	E In	E mm	Bulk Pack Qty.
OR4A	9/16" - 18	0.875	22.23	0.768	19.51	0.500	12.70	0.326	8.28	0.578	14.68	3500
OR6A	11/16" - 16	1.000	25.40	0.901	22.89	0.594	15.08	0.370	9.40	0.672	17.07	2500
OR8A	13/16" - 16	1.156	29.37	1.053	26.75	0.750	19.05	0.430	10.92	0.828	21.03	3000
OR10A	1" - 14	1.375	34.93	1.260	32.00	0.906	23.02	0.530	13.46	0.922	23.42	2000
OR12A	1 - 3/16" - 12	1.625	41.28	1.535	38.99	1.094	27.78	0.560	14.48	1.031	26.19	1200
OR16A	1 - 7/16" - 12	1.844	46.83	1.804	45.82	1.344	34.13	0.580	14.73	1.094	27.78	900
OR20A	1 - 11/16" - 12	2.125	53.98	2.093	53.16	1.594	40.48	0.580	14.73	1.094	27.78	700
OR24B	2" - 12	2.688	68.26	2.520	64.01	1.875	47.63	0.580	14.73	1.094	27.78	450

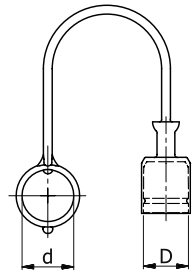
PUSH-FIT CAPS

Hydraulic Quick Release Dust Caps

NEW

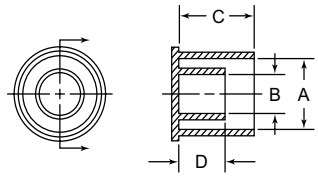
Specifications:
- Material: Thermoplastic Elastomer
- Color: See Table

Features:
- Suitable to cap ISO 7241-1 Series A and B Quick Couplings
- Designed to remain attached to a hose
- Excellent protection from dirt, moisture and corrosion
- Temperature Range: -40°F - 275°F (-40°C - 135°C)
- See page 51 if plug is needed



Item No.						D		d		Bulk Pack
Red	Yellow	Green	Blue	Size	Series	mm	in	mm	in	Qty.
498796	499736	499746	499756	1/4	ISO A	12.7	0.500	20.0	0.787	150
498797	499737	499747	499757	3/8	ISO A	18.3	0.720	25.0	0.984	150
498798	499738	499748	499758	1/2	ISO A	24.3	0.957	28.0	1.102	150
498799	499739	499749	499759	3/4	ISO A	30.7	1.209	35.0	1.378	150
498800	499740	499750	499760	1	ISO A	36.5	1.437	42.0	1.654	150
498801	499741	499751	499761	1/4	ISO B	15.5	0.610	20.0	0.787	150
498802	499742	499752	499762	3/8	ISO B	20.0	0.787	23.0	0.906	150
498803	499743	499753	499763	1/2	ISO B	25.7	1.012	28.0	1.102	150
498804	499744	499754	499764	3/4	ISO B	32.7	1.287	34.0	1.339	150
498805	499745	499755	499765	1	ISO B	40.5	1.594	43.0	1.693	150

M Series
Tube and Nut Assembly Caps

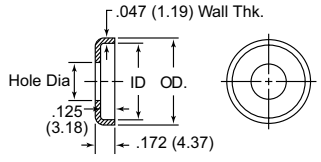


Specifications:
- Materials: Low-Density Polyethylene
- Color: Red

Features:
- Designed to protect flareless hydraulic tube and nut assemblies
- Features a double cap design; the outside cap conforms to the hex shape of the nut, the inside cap covers the tube and sleeve inside the nut to hold the assembly in place
- The MCA and MCM Series are frequently applied to automobile air conditioning tube and nut assemblies

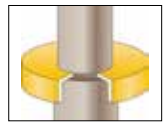
Item No.	To Cap Tube Size	A		B		C		D		Bulk Pack
		in	mm	in	mm	in	mm	in	mm	Qty.
M2A	1/8	0.391	9.93	0.172	4.37	0.580	14.73	0.400	10.16	6000
M3A	3/16	0.456	11.58	0.236	5.99	0.630	16.00	0.410	10.41	8500
M4A	1/4	0.606	15.39	0.283	7.19	0.650	16.51	0.380	9.65	5000
M5A	5/16	0.655	16.64	0.352	8.94	0.810	20.57	0.540	13.72	3500
M6A	3/8	0.740	18.80	0.440	11.18	0.845	21.46	0.545	13.84	2800
M8A	1/2	0.914	23.22	0.567	14.40	0.905	22.99	0.540	13.72	1800
M10A	5/8	1.044	26.52	0.670	17.02	1.030	26.16	0.647	16.43	2500
M12A	3/4	1.324	33.62	0.851	21.62	1.045	26.54	0.643	16.33	1600
M16A	1	1.564	39.73	1.060	26.92	1.097	27.86	0.550	13.97	1100
M20A	1 - 1/4	2.090	53.09	1.320	33.53	1.104	28.04	0.625	15.88	650
M24A	1 - 1/2	2.345	59.56	1.535	38.99	1.078	27.38	0.620	15.75	550
MCA10A	3/8 female	0.799	20.29	0.326	8.28	0.610	15.49	0.211	5.36	2800
MCA12A	1/2 female	0.930	23.62	0.450	11.43	0.750	19.05	0.315	8.00	3500
MCA17A	3/4 female	1.330	33.78	0.684	17.37	1.060	26.92	0.315	8.00	1500
MCM10A	3/8 male	0.612	15.54	0.326	8.28	0.800	20.32	0.211	5.36	3500
MCM12A	1/2 male	0.735	18.67	0.450	11.43	1.000	25.40	0.315	8.00	2000

W Series
Hose Washer Caps



Specifications:
- Material: See Table
- Color: See Table

Features:
- Applied on hose and tube ends in order to prevent them from sliding over the fittings



Item No.	Ø Hole		I.D.		O.D.		Color	Material	Bulk Pack Qty.
	in	mm	in	mm	in	mm			
W6A	0.320	8.13	0.589	14.96	0.685	17.40	Yellow	LDPE	4750
W6C	0.320	8.13	0.589	14.96	0.685	17.40	Black	TPE	4750
W8A	0.445	11.30	0.760	19.30	0.860	21.84	Yellow	LDPE	4000
W8C	0.445	11.30	0.760	19.30	0.860	21.84	Black	TPE	4000
W10A	0.575	14.61	0.870	22.10	0.968	24.59	Yellow	LDPE	5000
W10C	0.575	14.61	0.870	22.10	0.968	24.59	Black	TPE	5000

Item No.	Ø Hole		I.D.		O.D.		Color	Material	Bulk Pack Qty.
	in	mm	in	mm	in	mm			
W13A	0.700	17.78	1.040	26.42	1.141	28.98	Yellow	LDPE	7000
W13C	0.700	17.78	1.040	26.42	1.141	28.98	Black	TPE	6500
W15A	0.828	21.03	1.165	29.59	1.266	32.16	Yellow	LDPE	5000
W15C	0.828	21.03	1.165	29.59	1.266	32.16	Black	TPE	5000
W20A	1.050	26.67	1.300	33.02	1.400	35.56	Yellow	LDPE	5000
W20C	1.050	26.67	1.300	33.02	1.400	35.56	Black	TPE	5000

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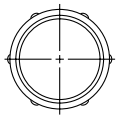
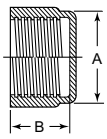
G Series
UNF/JIC Threaded Caps for Flared/Flareless Fittings





Specifications:
- Material: Low-Density Polyethylene
- Color: Blue

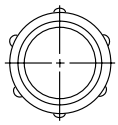
Features:
- Threaded cap with rolled threads allows you to thread or push on for easy application
- Protects flared and flareless fittings against dirt, dents and moisture

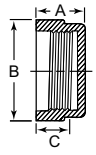
See pages 64 and 65 for Application Wizards.

Item No.	UNF/JIC Thread Size in	Tubing Size in	JIC Fitting Size	A in	A mm	B in	B mm	Bulk Pack Qty.
G1A	3/8 - 24	3/16	3	0.437	11.11	0.469	11.91	5000
G2A	7/16 - 20	1/4	4	0.500	12.70	0.500	12.70	5000
G3A	7/16 - 24	1/4	4	0.500	12.70	0.313	7.94	4500
G4A	1/2 - 20	5/16	5	0.563	14.29	0.313	7.94	6500
G5A	1/2 - 20	5/16	5	0.563	14.29	0.500	12.70	4500
G6A	1/2 - 26	—	—	0.563	14.29	0.500	12.70	4250
G7A	1/2 - 20	5/16	5	0.563	14.29	0.875	22.23	5000
G8A	9/16 - 18	3/8	6	0.625	15.88	0.500	12.70	6500
G9A	5/8 - 18	3/8	—	0.687	17.46	0.500	12.70	6000
G11A	5/8 - 18	3/8	—	0.687	17.46	0.563	14.29	5000
G12A	5/8 - 18	3/8	—	0.687	17.46	0.813	20.64	3500
G13A	5/8 - 24	—	—	0.687	17.46	0.375	9.53	4250
G14A	3/4 - 16	1/2	8	0.813	20.64	0.625	15.88	3500
G15A	3/4 - 18	—	—	0.813	20.64	0.906	23.02	2500

Item No.	UNF/JIC Thread Size in	Tubing Size in	JIC Fitting Size	A in	A mm	B in	B mm	Bulk Pack Qty.
G16A	3/4 - 20	—	—	0.813	20.64	0.437	11.11	5000
G17A	7/8 - 14	5/8	10	0.937	23.81	0.719	18.26	2400
G18A	7/8 - 14	5/8	10	0.937	23.81	1.000	25.40	3500
G19A	7/8 - 18	—	—	0.937	23.81	0.437	11.11	3500
G20A	7/8 - 18	—	—	0.937	23.81	0.781	19.84	4500
G21A	1 - 14	—	—	1.063	26.99	0.781	19.84	3500
G22A	1 - 1/16 - 12	3/4	12	1.125	28.58	0.813	20.64	3000
G23A	1 - 1/16 - 14	3/4	—	1.125	28.58	0.813	20.64	3000
G24A	1 - 1/16 - 16	—	—	1.125	28.58	1.000	25.40	2500
G25A	1 - 3/16 - 12	7/8	14	1.250	31.75	0.937	23.81	2000
G26A	1 - 1/4 - 18	—	—	1.375	34.93	0.469	11.91	3500
G27A	1 - 5/16 - 12	1	16	1.375	34.93	0.875	22.23	2000
G30A	1 - 5/8 - 12	1 - 1/4	20	1.750	44.45	0.906	23.02	1200

Threaded Caps





Specifications:
- Material: Low-Density Polyethylene
- Color: Red

Features:
- Protects threaded components from dust, moisture and damage during production, storage and shipment
- Designed with an easy-to-grip head for ease of hand installation

TCUNF Series
UNF/JIC Threaded Caps

Item No.	To Cap UNF/JIC Thread Size in	Tubing Size in	JIC Fitting Size	A in	A mm	B in	B mm	C in	C mm	Bulk Pack Qty.
10251A	3/8 × 24	3/16	3	0.327	8.30	0.433	11.00	0.157	4.00	5000
10332A	7/16 × 20	1/4	4	0.508	12.90	0.524	13.30	0.315	8.00	5000
12652A	7/16 × 24	1/4	—	0.539	13.70	0.524	13.30	0.307	7.80	5000
10528A	1/2 × 20	5/16	5	0.531	13.50	0.571	14.50	0.374	9.50	5000
11041A	9/16 × 18	3/8	6	0.531	13.50	0.65	16.50	0.374	9.50	5000
10653A	5/8 × 18	3/8	—	0.614	15.60	0.717	18.20	0.295	7.50	5000
12847A	3/4 × 16	1/2	8	0.543	13.80	0.854	21.70	0.374	9.50	4000
12825A	13/16 × 16	—	—	0.602	15.30	0.917	23.30	0.366	9.30	1250
11089A	7/8 × 14	5/8	10	0.795	20.20	0.98	24.90	0.567	14.40	2500
12075A	7/8 × 18	—	—	0.787	20.00	0.996	25.30	0.551	14.00	2500
12826A	1 × 14	—	—	0.677	17.20	1.087	27.60	0.472	12.00	2500
10685A	1 - 1/16 × 12	3/4	12	0.748	19.00	1.157	29.40	0.433	11.00	2000
10163A	1 - 3/16 × 12	7/8	14	0.752	19.10	1.287	32.70	0.512	13.00	1500
10151A	1 - 5/16 × 12	1	16	0.874	22.20	1.433	36.40	0.571	14.50	1000
12654A	1 - 3/8 × 12	—	—	0.965	24.50	1.472	37.40	0.413	10.50	1000
10185A	1 - 7/16 × 12	—	—	0.854	21.70	1.531	38.90	0.598	15.20	1000
11053A	1 - 5/8 × 12	1-1/4	20	0.866	22.00	1.764	44.80	0.551	14.00	800
11804A	1 - 7/8 × 12	1-1/2	24	0.984	25.00	1.98	50.30	0.591	15.00	500

TCMETRIC Series
Metric Threaded Caps

Item No.	To Cap Metric Thread Size	A in	A mm	B in	B mm	C in	C mm	Bulk Pack Qty.
12100A	M8 x 1	0.394	10.00	0.472	12.00	0.295	7.50	5000
12101A	M10 x 1	0.394	10.00	0.539	13.70	0.295	7.50	5000
12102A	M12 x 1	0.472	12.00	0.622	15.80	0.374	9.50	5000
12103A	M12 x 1.5	0.472	12.00	0.618	15.70	0.374	9.50	5000
12104A	M14 x 1.5	0.472	12.00	0.697	17.70	0.374	9.50	5000
12650A	M14 x 1.5	0.827	21.00	0.701	17.80	0.354	9.00	5000
12105A	M16 x 1.5	0.472	12.00	0.776	19.70	0.374	9.50	5000
12651A	M16 x 1.5	0.827	21.00	0.787	20.00	0.354	9.00	5000
12106A	M18 x 1.5	0.551	14.00	0.850	21.60	0.453	11.50	4000
12107A	M20 x 1.5	0.551	14.00	0.925	23.50	0.374	9.50	4000

Item No.	To Cap Metric Thread Size	A in	A mm	B in	B mm	C in	C mm	Bulk Pack Qty.
12108A	M22 x 1.5	0.543	13.80	1.024	26.00	0.453	11.50	3000
12845A	M22 x 1.5	0.965	24.50	1.024	26.00	0.689	17.50	2500
12109A	M24 x 1.5	0.551	14.00	1.142	29.00	0.453	11.50	3000
12110A	M25 x 1.5	0.551	14.00	1.122	28.50	0.453	11.50	2000
12111A	M26 x 1.5	0.551	14.00	1.181	30.00	0.453	11.50	2000
12967A	M28 x 1.5	0.488	12.40	1.260	32.00	0.551	14.00	2000
12122A	M30 x 2	0.453	11.50	1.339	34.00	0.610	15.50	1500
12123A	M36 x 2	0.630	16.00	1.587	40.30	0.531	13.50	1500
12124A	M42 x 2	0.630	16.00	1.831	46.50	0.531	13.50	500
12126A	M52 x 2	0.630	16.00	2.224	56.50	0.531	13.50	500

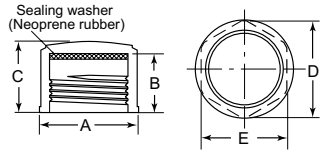
TCBSP Series
BSP Threaded Caps

Item No.	To Cap BSP/Gas Thread Size in	A in	A mm	B in	B mm	C in	C mm	Bulk Pack Qty.
10392A	1/8 x 28	0.472	12.00	0.465	11.80	0.256	6.50	5000
10559A	1/4 x 19	0.433	11.00	0.583	14.80	0.315	8.00	5000
10104A	3/8 x 19	0.445	11.30	0.736	18.70	0.291	7.40	5000
10198A	1/2 x 14	0.531	13.50	0.913	23.20	0.276	7.00	5000
11157A	5/8 x 14	0.618	15.70	1.000	25.40	0.394	10.00	3000
10205A	3/4 x 14	0.697	17.70	1.157	29.40	0.441	11.20	2000
10970A	7/8 x 14	0.768	19.50	1.276	32.40	0.492	12.50	1500

Item No.	To Cap BSP/Gas Thread Size in	A in	A mm	B in	B mm	C in	C mm	Bulk Pack Qty.
10204A	1 x 11	0.748	19.00	1.417	36.00	0.571	14.50	1500
10167A	1 - 1/4 x 11	0.780	19.80	1.748	44.40	0.512	13.00	1000
10432A	1 - 1/2 x 11	0.807	20.50	1.980	50.30	0.551	14.00	700
10968A	2 x 11	0.827	21.00	2.437	61.90	0.591	15.00	400
12954A	2-1/4 x 11	0.984	25.00	2.815	71.50	0.689	17.50	350
12905A	2-1/2 x 11	1.087	27.60	3.067	77.90	0.748	19.00	300

THREADED CAPS

TSC Series
UNF/Metric Threaded Sealing Caps



Specifications:
- Material: High-Density Polyethylene
- Color: Yellow

Features:
- This cap includes a neoprene sealing disk to limit fluid leakage
- The HDPE material reduces the potential of shearing

Unified Threads

Item No.	To Cap Thread Size	A		B		C		D		E		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	
TSC467054A	1/4" - 28	0.393	10.00	0.452	11.50	0.531	13.50	0.346	8.80	0.314	8.00	500
TSC467055A	3/8" - 24	0.511	13.00	0.492	12.50	0.570	14.50	0.476	12.10	0.433	11.00	500
TSC467056A	7/16" - 24	0.610	15.50	0.492	12.50	0.570	14.50	0.562	14.30	0.511	13.00	500
TSC467057A	7/16" - 20	0.610	15.50	0.511	13.00	0.590	15.00	0.562	14.30	0.511	13.00	500
TSC467058A	1/4" - 28	0.689	17.50	0.511	13.00	0.590	15.00	0.649	16.50	0.590	15.00	500
TSC467059A	9/16" - 18	0.728	18.50	0.531	13.50	0.610	15.50	0.688	17.50	0.629	16.00	500
TSC467060A	5/8" - 18	0.826	21.00	0.531	13.50	0.610	15.50	0.775	19.70	0.708	18.00	500
TSC467061A	3/4" - 16	0.944	24.00	0.570	14.50	0.649	16.50	0.905	23.00	0.826	21.00	500
TSC467062A	13/16" - 16	1.043	26.50	0.570	14.50	0.649	16.50	0.992	25.20	0.905	23.00	500
TSC467063A	7/8" - 18	1.082	27.50	0.531	13.50	0.610	15.50	1.035	26.30	0.944	24.00	500
TSC467064A	7/8" - 14	1.082	27.50	0.610	15.50	0.688	17.50	1.035	26.30	0.944	24.00	250
TSC467065A	1" - 14	1.220	31.00	0.610	15.50	0.688	17.50	1.165	29.60	1.062	27.00	250
TSC467066A	1 - 1/16" - 12	1.358	34.50	0.649	16.50	0.728	18.50	1.295	32.90	1.181	30.00	250
TSC467067A	1 - 3/16" - 12	1.437	36.50	0.649	16.50	0.728	18.50	1.381	35.10	1.259	32.00	250
TSC467068A	1 - 5/16" - 12	1.614	41.00	0.649	16.50	0.728	18.50	1.555	39.50	1.417	36.00	250
TSC467069A	1 - 3/8" - 12	1.692	43.00	0.649	16.50	0.728	18.50	1.641	41.70	1.496	38.00	250
TSC467070A	1 - 7/16" - 12	1.791	45.50	0.649	16.50	0.728	18.50	1.728	43.90	1.574	40.00	250
TSC467071A	1 - 5/8" - 12	2.007	51.00	0.649	16.50	0.748	19.00	1.944	49.40	1.771	45.00	100
TSC467072A	1 - 3/4" - 16	2.145	54.50	0.570	14.50	0.669	17.00	2.070	52.60	1.889	48.00	100
TSC467073A	1-7/8 "- 12	2.322	59.00	0.649	16.50	0.748	19.00	2.244	57.00	2.047	52.00	100

Metric Threads

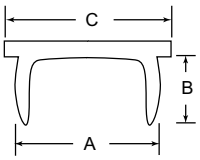
Item No.	To Cap Thread Size	A		B		C		D		E		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	
TSC467033A	M8 x 1	0.472	12.00	0.433	11.00	0.511	13.00	0.433	11.00	0.393	10.00	500
TSC467034A	M10 x 1	0.559	14.20	0.433	11.00	0.511	13.00	0.519	13.20	0.472	12.00	500
TSC467035A	M12 x 1	0.649	16.50	0.433	11.00	0.511	13.00	0.606	15.40	0.551	14.00	500
TSC467036A	M12 x 1.5	0.649	16.50	0.511	13.00	0.590	15.00	0.606	15.40	0.551	14.00	500
TSC467037A	M14 x 1.5	0.728	18.50	0.511	13.00	0.590	15.00	0.689	17.50	0.629	16.00	500
TSC467038A	M16 x 1.5	0.826	21.00	0.511	13.00	0.590	15.00	0.775	19.70	0.708	18.00	500
TSC467039A	M18 x 1.5	0.905	23.00	0.511	13.00	0.590	15.00	0.862	21.90	0.787	20.00	500
TSC467040A	M20 x 1.5	0.984	25.00	0.511	13.00	0.590	15.00	0.948	24.10	0.866	22.00	500
TSC467041A	M22 x 1.5	1.082	27.50	0.511	13.00	0.590	15.00	1.035	26.30	0.944	24.00	250
TSC467042A	M24 x 1.5	1.181	30.00	0.511	13.00	0.590	15.00	1.122	28.50	1.023	26.00	250
TSC467043A	M25 x 1.5	1.220	31.00	0.511	13.00	0.590	15.00	1.165	29.60	1.063	27.00	250
TSC467044A	M26 x 1.5	1.259	32.00	0.511	13.00	0.590	15.00	1.208	30.70	1.102	28.00	250
TSC467045A	M28 x 1.5	1.338	34.00	0.511	13.00	0.590	15.00	1.295	32.90	1.181	30.00	250
TSC467046A	M30 x 1.5	1.437	36.50	0.511	13.00	0.590	15.00	1.381	35.10	1.259	32.00	250
TSC467047A	M30 x 2	1.437	36.50	0.590	15.00	0.669	17.00	1.381	35.10	1.259	32.00	250
TSC467048A	M36 x 1.5	1.752	44.50	0.551	14.00	0.629	16.00	1.685	42.80	1.535	39.00	100
TSC467049A	M36 x 2	1.752	44.50	0.629	16.00	0.708	18.00	1.685	42.80	1.535	39.00	100
TSC467050A	M42 x 2	2.007	51.00	0.629	16.00	0.728	18.50	1.944	49.40	1.771	45.00	100
TSC467051A	M45 x 1.5	2.145	54.50	0.551	14.00	0.649	16.50	2.070	52.60	1.889	48.00	100
TSC467052A	M45 x 2	2.145	54.50	0.629	16.00	0.728	18.50	2.070	52.60	1.889	48.00	100
TSC467053A	M52 x 2	2.440	62.00	0.629	16.00	0.728	18.50	2.374	60.30	2.165	55.00	100

BP Series
Barrel Plugs

LINE EXTENSION

Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

Features:
- General purpose plug for a wide range of applications
- Quick to fit and remove
- Convexed sides to ensure secure fit



See pages 64 and 65 for Application Wizards.

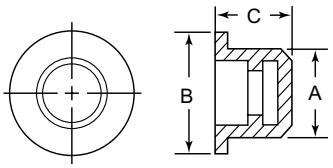
Item No.	Color	A in	A mm	B in	B mm	C in	C mm	Bulk Pack Qty.
BP1000A	Natural	0.083	2.1	0.276	7.0	0.138	3.5	1000
BP1002A	Natural	0.102	2.6	0.157	4.0	0.472	12.0	1000
BP1004A	Natural	0.106	2.7	0.236	6.0	0.472	12.0	1000
BP1006A	Natural	0.130	3.3	0.236	6.0	0.472	12.0	1000
• 054044922003	Black	0.173	4.4	0.197	5.0	0.354	9.0	1000
BP1008A	Natural	0.173	4.4	0.205	5.2	0.354	9.0	1000
• 054047769903	Black	0.181	4.6	0.197	5.0	0.276	7.0	1000
BP1010A	Natural	0.181	4.6	0.197	5.0	0.276	7.0	1000
• 494365	Black	0.213	5.4	0.295	7.5	0.472	12.0	500
BP1012A	Natural	0.213	5.4	0.295	7.5	0.472	12.0	10000
BP1014A	Natural	0.248	6.3	0.157	4.0	0.378	9.6	1000
• 494366	Black	0.287	7.3	0.236	6.0	0.551	14.0	500
BP1018A	Natural	0.287	7.3	0.236	6.0	0.551	14.0	10000
• 494367	Black	0.331	8.4	0.236	6.0	0.551	14.0	500
BP1020A	Natural	0.331	8.4	0.236	6.0	0.551	14.0	10000
• 055008822003	Black	0.346	8.8	0.315	8.0	0.453	11.5	500
BP1022A	Natural	0.346	8.8	0.315	8.0	0.453	11.5	500
• 055009322003	Black	0.366	9.3	0.354	9.0	0.472	12.0	500
BP1024A	Natural	0.366	9.3	0.354	9.0	0.472	12.0	500
• 494368	Black	0.366	9.3	0.177	4.5	0.551	14.0	500
BP1026A	Natural	0.366	9.3	0.177	4.5	0.551	14.0	6000
BP1028A	Natural	0.366	9.3	0.268	6.8	0.630	16.0	6000
• 054100322003	Black	0.394	10.0	0.157	4.0	0.472	12.0	500
BP1030A	Natural	0.394	10.0	0.157	4.0	0.472	12.0	500
BP1032A	Natural	0.394	10.0	0.354	9.0	0.591	15.0	500
BP1034A	Natural	0.421	10.7	0.236	6.0	0.551	14.0	6000
• 494369	Black	0.421	10.7	0.236	6.0	0.551	14.0	500
BP1036A	Natural	0.421	10.7	0.354	9.0	0.583	14.8	500
BP1038A	Natural	0.445	11.3	0.217	5.5	0.567	14.4	1000
• 494370	Black	0.469	11.9	0.276	7.0	0.630	16.0	500
BP1040A	Natural	0.469	11.9	0.276	7.0	0.630	16.0	5000
• 494371	Black	0.484	12.3	0.276	7.0	0.630	16.0	500
BP1042A	Natural	0.484	12.3	0.276	7.0	0.630	16.0	5000
• 494372	Black	0.504	12.8	0.307	7.8	0.787	20.0	500
BP1044A	Natural	0.504	12.8	0.307	7.8	0.787	20.0	5000
BP1046A	Natural	0.539	13.7	0.276	7.0	0.736	18.7	1000
• 494373	Black	0.539	13.7	0.315	8.0	0.787	20.0	500
12787A	Natural	0.539	13.7	0.315	8.0	0.787	20.0	5000
BP1050A	Natural	0.551	14.0	0.276	7.0	0.736	18.7	1000
• 494374	Black	0.571	14.5	0.217	5.5	0.787	20.0	500
BP1052A	Natural	0.571	14.5	0.217	5.5	0.787	20.0	5000
BP1054A	Natural	0.575	14.6	0.374	9.5	0.728	18.5	500
BP1056A	Natural	0.591	15.0	0.276	7.0	0.736	18.7	1000
• 494375	Black	0.614	15.6	0.315	8.0	0.787	20.0	500
BP1058A	Natural	0.614	15.6	0.315	8.0	0.787	20.0	5000
BP1060A	Natural	0.650	16.5	0.276	7.0	0.736	18.7	1000
12790A	Natural	0.669	17.0	0.323	8.2	0.866	22.0	5000
BP1064A	Natural	0.701	17.8	0.354	9.0	0.969	24.6	1000
• 494377	Black	0.724	18.4	0.315	8.0	0.984	25.0	500
BP1066A	Natural	0.724	18.4	0.315	8.0	0.984	25.0	5000
BP1068A	Natural	0.740	18.8	0.354	9.0	0.846	21.5	500
• 494378	Black	0.760	19.3	0.315	8.0	0.984	25.0	500
12792B	Natural	0.760	19.3	0.315	8.0	0.984	25.0	5000
BP1072A	Natural	0.768	19.5	0.354	9.0	0.969	24.6	1000
BP1074A	Natural	0.791	20.1	0.354	9.0	0.969	24.6	500
BP1076A	Natural	0.807	20.5	0.354	9.0	1.004	25.5	250

Item No.	Color	A in	A mm	B in	B mm	C in	C mm	Bulk Pack Qty.
BP1078A	Natural	0.807	20.5	0.421	10.7	1.181	30.0	3000
• 055021022003	Black	0.827	21.0	0.496	12.6	1.007	25.6	500
BP1080A	Natural	0.827	21.0	0.496	12.6	1.007	25.6	250
BP1082A	Natural	0.835	21.2	0.295	7.5	0.984	25.0	5000
• 494379	Black	0.854	21.7	0.315	8.0	0.984	25.0	500
BP1084A	Natural	0.854	21.7	0.315	8.0	0.984	25.0	4000
• 494380	Black	0.882	22.4	0.354	9.0	1.102	28.0	500
BP1086A	Natural	0.882	22.4	0.354	9.0	1.102	28.0	4000
BP1088A	Natural	0.906	23.0	0.760	19.3	1.079	27.4	100
• 494381	Black	0.921	23.4	0.354	9.0	1.102	28.0	500
BP1090A	Natural	0.921	23.4	0.354	9.0	1.102	28.0	4000
BP1092A	Natural	0.945	24.0	0.504	12.8	1.063	27.0	100
• 494382	Black	0.969	24.6	0.354	9.0	1.102	28.0	500
BP1094A	Natural	0.969	24.6	0.354	9.0	1.102	28.0	3000
BP1096A	Natural	0.976	24.8	0.236	6.0	1.240	31.5	100
BP1098A	Natural	0.984	25.0	0.512	13.0	1.260	32.0	100
• 494383	Black	1.004	25.5	0.295	7.5	1.102	28.0	500
BP1100A	Natural	1.004	25.5	0.295	7.5	1.102	28.0	3000
• 494384	Black	1.043	26.5	0.354	9.0	1.102	28.0	500
BP1102A	Natural	1.043	26.5	0.354	9.0	1.102	28.0	4000
BP1104A	Natural	1.063	27.0	0.591	15.0	1.165	29.6	100
BP1106A	Natural	1.083	27.5	0.472	12.0	1.370	34.8	500
BP1108A	Natural	1.126	28.6	0.591	15.0	1.339	34.0	100
BP1110A	Natural	1.142	29.0	0.472	12.0	1.417	36.0	3000
• 494385	Black	1.201	30.5	0.472	12.0	1.417	36.0	500
BP1112A	Natural	1.201	30.5	0.472	12.0	1.417	36.0	2500
BP1114A	Natural	1.252	31.8	0.394	10.0	1.417	36.0	2000
BP1116A	Natural	1.283	32.6	0.472	12.0	1.370	34.8	500
• 494386	Black	1.319	33.5	0.472	12.0	1.417	36.0	500
BP1118A	Natural	1.319	33.5	0.472	12.0	1.417	36.0	2000
BP1120A	Natural	1.319	33.5	0.472	12.0	1.614	41.0	100
BP1122A	Natural	1.370	34.8	0.591	15.0	1.654	42.0	2000
BP1124A	Natural	1.398	35.5	0.591	15.0	1.831	46.5	100
BP1126A	Natural	1.437	36.5	0.591	15.0	1.654	42.0	1500
BP1128A	Natural	1.480	37.6	0.472	12.0	1.591	40.4	500
BP1130A	Natural	1.512	38.4	0.591	15.0	1.654	42.0	2000
BP1132A	Natural	1.535	39.0	0.630	16.0	1.941	49.3	500
BP1134A	Natural	1.598	40.6	0.591	15.0	1.732	44.0	1000
BP1136A	Natural	1.665	42.3	0.591	15.0	1.890	48.0	1000
BP1138A	Natural	1.705	43.3	0.591	15.0	1.988	50.5	100
BP1140A	Natural	1.811	46.0	0.709	18.0	2.165	55.0	1500
BP1142A	Natural	1.988	50.5	0.551	14.0	2.244	57.0	100
BP1144A	Natural	2.028	51.5	0.709	18.0	2.165	55.0	1500
BP1146A	Natural	2.067	52.5	0.551	14.0	2.362	60.0	100
BP1148A	Natural	2.130	54.1	0.709	18.0	2.311	58.7	500
BP1150A	Natural	2.177	55.3	0.768	19.5	2.343	59.5	100
BP1152A	Natural	2.283	58.0	0.709	18.0	2.520	64.0	750
BP1154A	Natural	2.346	59.6	0.709	18.0	2.894	73.5	500
BP1156A	Natural	2.756	70.0	0.709	18.0	3.071	78.0	500
BP1158A	Natural	2.902	73.7	0.685	17.4	3.240	82.3	500
BP1160A	Natural	3.181	80.8	0.685	17.4	3.642	92.5	250
BP1162A	Natural	3.346	85.0	0.709	18.0	3.681	93.5	50
BP1164A	Natural	3.406	86.5	0.685	17.4	3.909	99.3	250
BP1166A	Natural	3.890	98.8	0.685	17.4	4.409	112.0	250
BP1168A	Natural	4.350	110.5	0.709	18.0	5.118	130.0	50
BP1170A	Natural	4.398	111.7	0.685	17.4	4.843	123.0	250

PUSH-FIT PLUGS

FT Series
TPR, PVC & Vinyl Plugs

LINE EXTENSION

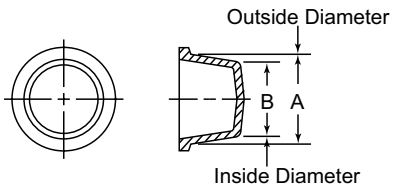


Specifications:
- Materials: Thermoplastic Rubber, PVC or Vinyl
- Color: See Table

Features:
- Highly resistant to shredding
- Ideal for threaded applications
- Thermoplastic rubber is recommended for use wherever resistance to acid is required
- PVC is highly resistant to shredding and ideal for threaded applications
- Green Vinyl works well with oils and greases

Item No.			A		B		C		Bulk Pack Qty.		
Black TPR	Black PVC	Green Vinyl	in	mm	in	mm	in	mm	Black TPR	Black PVC	Green Vinyl
18071B	10874A	—	0.125	3.20	0.276	7.00	0.354	9.00	10000	10000	10000
12049B	12665A	—	0.197	5.00	0.433	11.00	0.471	11.99	10000	10000	10000
12050B	12666A	• 11806	0.236	5.99	0.472	11.99	0.471	11.99	10000	10000	5000
12051B	12667A	• 11817	0.275	6.99	0.511	12.98	0.471	11.99	10000	10000	5000
12052B	12668A	• 11808	0.315	8.00	0.551	14.00	0.471	11.99	10000	10000	10000
12053B	12669A	• 11829	0.354	8.99	0.580	14.99	0.471	11.99	10000	10000	5000
12054B	12670A	• 11807	0.393	9.98	0.629	15.98	0.471	11.99	10000	10000	5000
12055B	12671A	• 11824	0.433	11.00	0.669	16.99	0.471	11.99	10000	10000	10000
12056B	12672A	• 11809	0.472	11.99	0.787	19.99	0.471	11.99	8000	8000	8000
12057B	12673A	• 11822	0.511	12.98	0.826	20.98	0.551	14.00	8000	8000	8000
12058B	12674A	• 11813	0.551	14.00	0.866	22.00	0.551	14.00	6000	7000	7000
12059B	12675A	• 11830	0.580	14.99	0.905	22.99	0.571	14.50	6000	5000	6000
12060B	12677A	• 11820	0.630	16.00	0.945	24.00	0.551	14.00	6000	6000	6000
FLP17A	12678A	• 11811	0.669	17.00	1.063	27.00	0.531	13.50	4000	5000	5000
12062B	12679A	• 11827	0.709	18.01	1.102	27.99	0.551	14.00	4000	4000	4000
12063B	12680A	• 11818	0.748	19.00	1.142	29.01	0.551	14.00	4000	2000	2000
12064B	12681A	• 11812	0.787	19.99	1.181	30.00	0.551	14.00	4000	2000	2000
12065B	12683A	• 11823	0.827	21.01	1.220	30.99	0.551	14.00	3000	2500	3000
FLP21A	12684A	• 11828	0.879	22.33	1.260	32.00	0.551	14.00	2500	3000	1500
12067B	12685A	• 11814	0.906	23.01	1.299	32.99	0.630	16.00	3000	1500	1500
12068B	12686A	• 11810	0.945	24.00	1.339	34.01	0.630	16.00	2500	2500	2500
12069B	12687A	• 11816	0.984	24.99	1.378	35.00	0.630	16.00	2000	2000	2000
12070B	12688A	• 11819	1.024	26.01	1.417	35.99	0.630	16.00	2000	2000	2000
12071B	12689A	• 11821	1.063	27.00	1.457	37.01	0.630	16.00	2000	2000	2000
12072B	12690A	• 11825	1.102	27.99	1.496	38.00	0.630	16.00	2000	2000	2000
FLP30A	12692A	• 11826	1.190	30.23	1.400	35.56	0.630	16.00	1500	1000	1000
12501B	12693A	• 12078	1.575	40.01	1.969	50.01	0.866	22.00	700	500	700
12502B	12694A	—	1.850	46.99	2.244	57.00	0.866	22.00	500	500	500

DMVP Series
Vinyl Tapered Plugs



Specifications:
- Material: PVC
- Color: Black
- Temperature Range: Up to 350°F (177°C)

Features:
- The flexibility of the material allows these plugs to fit into smaller dimensions for a snug fit
- The tapered design allows the part to plug multiple inner diameters

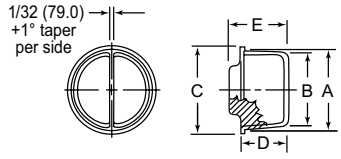
To Assure Proper Fit:

Plugs

Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"

Item No.	A		B		Bulk Pack Qty.
	in	mm	in	mm	
DMVP0285A	0.290	7.20	0.180	4.40	5000
DMVP0360A	0.360	9.10	0.250	6.40	5000
DMVP0405A	0.410	10.30	0.300	7.50	5000
DMVP0465A	0.470	11.80	0.360	9.00	5000
DMVP0530A	0.530	13.50	0.420	10.70	5000
DMVP0605A	0.610	15.40	0.500	12.60	5000
DMVP0750A	0.750	19.10	0.640	16.30	2000
DMVP0850A	0.850	21.60	0.740	18.80	2500
DMVP1015A	1.020	25.80	0.910	23.00	2500
DMVP1190A	1.190	30.20	1.060	27.40	2000

CP Series
Center Pull Tab Plugs



Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

Features:
- The integral center pull tab feature is designed for quick and easy removal
- The tapered design allows the part to plug multiple inner diameters

To Assure Proper Fit:

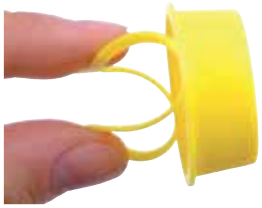
Plugs

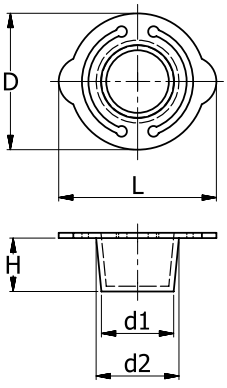
Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"

Item No.		A		B		C		D		E		Bulk Pack
Orange	Red	in	mm	in	mm	in	mm	in	mm	in	mm	Qty.
CP4A	—	0.269	6.83	0.209	5.31	0.380	9.65	0.340	8.64	0.590	14.99	5000
CP5A	—	0.303	7.69	0.239	6.07	0.469	11.91	0.370	9.39	0.630	16.00	5000
CP6A	—	0.335	8.51	0.267	6.78	0.469	11.91	0.406	10.32	0.625	15.88	5000
CP7A	—	0.370	9.40	0.302	7.67	0.531	13.49	0.375	9.53	0.750	19.05	5000
CP8A	—	0.396	10.06	0.330	8.38	0.530	13.46	0.410	10.41	0.790	20.07	5000
CP9A	—	0.428	10.87	0.362	9.19	0.594	15.08	0.375	9.53	0.750	19.05	7000
CP10A	—	0.463	11.76	0.402	10.21	0.625	15.88	0.375	9.53	0.750	19.05	6000
CP11A	—	0.486	12.34	0.422	10.72	0.625	15.88	0.406	10.32	0.781	19.84	5500
CP12A	—	0.512	13.00	0.448	11.38	0.656	16.67	0.406	10.32	0.563	14.29	5000
—	110033	0.539	13.70	0.461	11.70	0.677	17.20	0.433	11.00	0.866	22.00	5000
CP13A	—	0.548	13.92	0.471	11.96	0.690	17.53	0.470	11.94	0.850	21.59	5000
CP14A	—	0.568	14.43	0.500	12.70	0.719	18.26	0.469	11.91	0.813	20.64	7500
CP15B	—	0.608	15.44	0.532	13.51	0.750	19.05	0.470	11.94	0.780	19.81	6000
CP16A	—	0.633	16.08	0.551	14.00	0.780	19.81	0.500	12.70	0.750	19.05	5000
CP18A	—	0.668	16.97	0.580	14.73	0.813	20.64	0.531	13.49	0.750	19.05	5500
CP19A	—	0.695	17.65	0.610	15.49	0.840	21.34	0.530	13.46	0.780	19.81	5000
—	110035	0.720	18.30	0.646	16.40	0.874	22.20	0.484	12.30	0.925	23.50	5000
CP23A	—	0.787	19.99	0.691	17.55	0.938	23.81	0.594	15.08	0.750	19.05	3500
CP24A	—	0.825	20.96	0.727	18.47	1.000	25.40	0.590	14.99	0.840	21.34	5000
CP29A	—	0.933	23.70	0.819	20.80	1.125	28.58	0.750	19.05	1.000	25.40	4000
CP31A	—	0.973	24.71	0.869	22.07	1.120	28.45	0.750	19.05	1.000	25.40	4000
—	10418	1.004	25.50	0.886	22.50	1.138	28.90	0.701	17.80	1.142	29.00	2500
CP35A	—	1.074	27.28	0.935	23.75	1.156	29.37	0.750	19.05	0.938	23.81	3500
CP37A	—	1.092	27.74	0.967	24.56	1.250	31.75	0.780	19.81	1.030	26.16	2500
CP40A	—	1.146	29.11	1.026	26.06	1.340	34.04	0.750	19.05	1.000	25.40	2500
CP42A	—	1.219	30.96	1.093	27.76	1.410	35.81	0.780	19.81	1.000	25.40	2500
CP44A	—	1.286	32.66	1.150	29.21	1.550	39.37	0.750	19.05	1.000	25.40	2000
CP46A	—	1.360	34.54	1.235	31.37	1.530	38.86	0.750	19.05	1.000	25.40	2000
CP47A	—	1.356	33.22	1.292	32.82	1.500	38.10	0.781	19.84	1.000	25.40	1800
CP49A	—	1.465	37.21	1.312	33.32	1.620	41.15	0.750	19.05	1.000	25.40	1800
CP51A	—	1.527	38.79	1.344	34.14	1.750	44.45	0.880	22.35	1.000	25.40	1500
CP55A	—	1.601	40.67	1.451	36.86	1.750	44.45	0.750	19.05	1.000	25.40	1500
CP56A	—	1.735	44.07	1.615	41.02	1.906	48.42	0.719	18.26	1.125	28.58	1000
CP59A	—	1.835	46.61	1.820	46.23	2.031	51.59	0.500	12.70	0.750	19.05	1500
CP57A	—	1.938	49.23	1.807	45.90	2.160	54.86	1.000	25.40	1.250	31.75	1000
—	110039	2.075	52.70	1.898	48.20	2.248	57.10	1.000	25.40	1.039	26.40	300
CP61A	—	2.243	56.97	2.067	52.50	2.440	61.98	1.030	26.16	1.250	31.75	1000
CP63A	—	2.270	57.66	2.230	56.64	2.530	64.26	0.500	12.70	0.750	19.05	1000
—	110040	2.402	61.00	2.165	55.00	2.559	65.00	0.984	25.00	1.024	26.00	400
CP65A	—	2.464	62.59	2.300	58.42	2.660	67.56	1.000	25.40	1.250	31.75	500
—	110041	2.650	67.30	2.335	59.30	2.780	70.60	1.209	30.70	1.240	31.50	150
—	110042	2.764	70.20	2.654	67.40	2.937	74.60	0.984	25.00	1.024	26.00	300
CP71A	—	3.452	87.68	3.320	84.33	3.620	91.95	0.750	19.05	1.000	25.40	200

Tapered Plug with Ring Tab

NEW





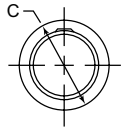
Specifications:
- Material: Low-Density Polyethylene
- Color: Yellow

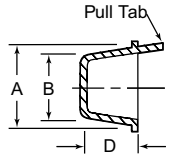
Features:
- Tapered profile for extended dimensions
- Easy removal of the part with strong ring tab

Item No.	d1		d2		H		D		L		Bulk Pack
	mm	in	mm	in	mm	in	mm	in	mm	in	Qty.
498716	5.0	0.197	7.0	0.276	9.5	0.374	17.3	0.681	20.3	0.799	1000
498717	6.0	0.236	8.0	0.315	9.5	0.374	18.2	0.717	21.1	0.831	1000
498718	7.0	0.276	9.5	0.374	9.5	0.374	20.3	0.799	23.3	0.917	1000
498719	8.0	0.315	10.0	0.394	9.5	0.374	20.3	0.799	23.2	0.913	1000
498720	9.5	0.374	11.5	0.453	9.5	0.374	21.9	0.862	24.8	0.976	1000
498721	10.5	0.413	12.5	0.492	9.5	0.374	22.6	0.890	26.5	1.043	1000
498722	11.5	0.453	13.5	0.531	9.5	0.374	23.7	0.933	27.5	1.083	1000
498723	12.5	0.492	14.5	0.571	10.0	0.394	24.5	0.965	28.4	1.118	1000
498724	13.5	0.531	15.5	0.61	10.0	0.394	25.5	1.004	29.5	1.161	1000
498725	14.2	0.559	16.2	0.638	10.0	0.394	26.3	1.035	30.3	1.193	1000
498726	14.5	0.571	17.0	0.669	10.0	0.394	27.0	1.063	31.0	1.220	500
498727	15.5	0.610	18.0	0.709	10.0	0.394	28.3	1.114	32.0	1.260	500
498728	17.5	0.689	19.5	0.768	10.0	0.394	30.0	1.181	34.0	1.339	500
498729	18.0	0.709	20.0	0.787	10.0	0.394	30.0	1.181	34.0	1.339	500
498730	19.0	0.748	21.5	0.846	11.0	0.433	32.0	1.260	35.7	1.406	500
498731	21.0	0.827	24.2	0.953	11.0	0.433	34.7	1.366	38.7	1.524	500
498732	22.5	0.886	25.5	1.004	12.0	0.472	36.0	1.417	40.0	1.575	500
498733	25.0	0.984	28.0	1.102	12.0	0.472	38.5	1.516	42.2	1.661	500
498734	29.0	1.142	31.5	1.240	12.0	0.472	41.8	1.646	47.0	1.850	500
498735	29.5	1.161	32.0	1.260	12.0	0.472	42.5	1.673	47.6	1.874	500

PUSH-FIT PLUGS

P Series
Side Pull Tab Plugs





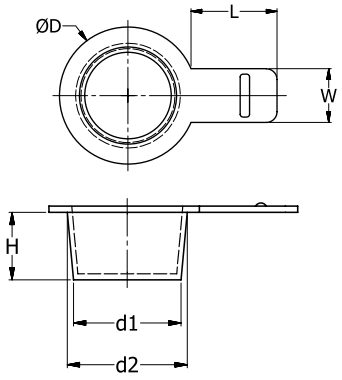
Specifications:
- Material: Low-Density Polyethylene
- Color: Blue

Features:
- The integral side pull tab feature is designed for easy removal in awkward locations
- The tapered design allows the part to plug multiple inner diameters

Item No.	A		B		C		D		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	
P7A	0.365	9.27	0.300	7.62	0.531	13.49	0.375	9.53	5000
P8A	0.398	10.11	0.330	8.38	0.563	14.30	0.375	9.53	5000
P11A	0.485	12.32	0.420	10.67	0.594	15.08	0.375	9.53	5000
P13A	0.548	13.92	0.471	11.96	0.690	17.53	0.470	11.94	5000
P16A	0.623	15.82	0.531	13.49	0.750	19.05	0.500	12.70	7000
P17A	0.634	16.10	0.550	13.97	0.781	19.84	0.500	12.70	7000
P18A	0.668	16.97	0.580	14.73	0.810	20.57	0.530	13.46	5000
P20A	0.729	18.52	0.640	16.26	0.880	22.35	0.500	12.70	5000
P23A	0.785	19.94	0.690	17.53	0.937	23.81	0.625	15.88	3500
P24A	0.805	20.44	0.717	18.21	0.937	23.81	0.625	15.88	5000
P26A	0.912	23.16	0.802	20.37	1.060	26.92	0.650	16.51	5000
P27A	0.933	23.70	0.815	20.70	1.120	28.45	0.620	15.75	5000
P31A	0.975	24.77	0.870	22.10	1.125	28.58	0.625	15.88	2500
P33A	1.040	26.42	0.915	23.24	1.160	29.46	0.720	18.29	5000
P40A	1.090	27.69	0.964	24.49	1.250	31.75	0.780	19.81	3000
P41A	1.145	29.08	0.995	25.27	1.310	33.27	0.780	19.81	2500
P42A	1.230	31.24	1.110	28.19	1.516	38.50	0.750	19.05	2500
P44A	1.275	32.39	1.165	29.59	1.405	35.69	0.750	19.05	2500
P46A	1.360	34.54	1.233	31.32	1.500	38.10	0.840	21.34	2500
P53A	1.600	40.64	1.450	36.83	1.750	44.45	0.750	19.05	2000
P55A	1.682	42.74	1.560	39.62	1.875	47.63	0.750	19.05	1500
P57A	1.750	44.45	1.633	41.48	1.940	49.28	0.750	19.05	1000
P59A	1.825	46.36	1.800	45.72	2.031	51.59	0.500	12.70	2000
P61A	1.950	49.53	1.780	45.21	2.120	53.85	1.000	25.40	1000
P63A	2.000	50.80	1.844	46.84	2.120	53.85	1.000	25.40	1000
P65A	2.083	52.91	1.920	48.77	2.250	57.15	1.000	25.40	1000
P68A	2.261	57.43	2.231	56.67	2.500	63.50	0.500	12.70	1000

Tapered Plug with Lateral Pull Tab

NEW

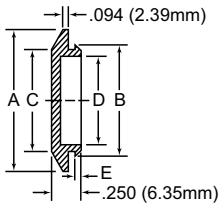


Specifications:
- Material: Thermoplastic Rubber
- Color: White

Features:
- The soft and flexible material provides a close fit
- The lateral pull tab makes for easy removal
- TPR is recommended wherever resistance to acid is required

Item No.	d1		d2		D		H		W		L		Bulk Pack Qty.
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
494297	5.0	0.197	7.0	0.276	11.0	0.433	9.5	0.374	7.0	0.276	15.0	0.591	5000
494298	6.0	0.236	8.0	0.315	12.0	0.472	9.5	0.374	7.0	0.276	15.0	0.591	5000
494299	7.0	0.276	9.5	0.374	13.5	0.531	9.5	0.374	7.0	0.276	15.0	0.591	5000
494300	8.0	0.315	10.0	0.394	14.0	0.551	9.5	0.374	8.0	0.315	15.0	0.591	5000
494301	9.5	0.374	11.5	0.453	15.5	0.610	9.5	0.374	8.0	0.315	15.0	0.591	5000
494302	10.5	0.413	12.5	0.492	16.5	0.650	9.5	0.374	8.0	0.315	15.0	0.591	5000
494303	11.5	0.453	13.5	0.531	17.5	0.689	9.5	0.374	8.0	0.315	15.0	0.591	5000
494304	12.5	0.492	14.5	0.571	18.5	0.728	10.0	0.394	8.0	0.315	15.0	0.591	5000
494305	13.5	0.531	15.5	0.610	19.5	0.768	10.0	0.394	10.0	0.394	15.0	0.591	5000
494306	14.2	0.559	16.2	0.638	20.2	0.795	10.0	0.394	10.0	0.394	15.0	0.591	5000
494307	14.5	0.571	17.0	0.669	21.0	0.827	10.0	0.394	10.0	0.394	15.0	0.591	2000
494308	15.5	0.61	18.0	0.709	22.0	0.866	10.0	0.394	10.0	0.394	15.0	0.591	2000
494309	17.5	0.689	19.5	0.768	23.5	0.925	10.0	0.394	10.0	0.394	15.0	0.591	2000
494310	19.0	0.748	21.5	0.846	25.5	1.004	11.0	0.433	10.0	0.394	15.0	0.591	2000
494311	21.0	0.827	23.5	0.925	27.5	1.083	11.0	0.433	10.0	0.394	15.0	0.591	2000
494312	22.5	0.886	25.5	1.004	29.5	1.161	12.0	0.472	12.0	0.472	15.0	0.591	2000
494313	25.0	0.984	28.0	1.102	32.0	1.260	12.0	0.472	12.0	0.472	15.0	0.591	2000
494314	29.0	1.142	31.5	1.240	35.5	1.398	12.0	0.472	12.0	0.472	15.0	0.591	2000

S Series
Sheet Metal Plugs

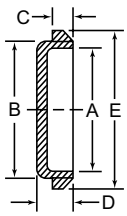


Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- Economical snap-in plug that provides an attractive finish and a secure fit for entry holes in sheet metal

Item No.	Ø Hole	Max Panel Thickness		A		B		C		D		E		Bulk Pack Qty.
	in	in	mm	in	mm	in	mm	in	mm	in	mm	In	in	
S1/4A	0.250	0.110	2.79	0.500	12.70	0.280	7.11	0.250	6.35	0.188	4.78	0.250	6.35	5000
SM3/8A	0.375	0.065	1.65	0.740	18.80	0.400	10.16	0.370	9.40	0.240	6.10	0.250	6.35	5000
S3/8A	0.375	0.110	2.79	0.730	18.54	0.412	10.46	0.370	9.40	0.270	6.86	0.110	2.79	5000
S7/16A	0.438	0.110	2.79	0.688	17.48	0.471	11.96	0.438	11.13	0.375	9.53	0.250	6.35	6000
S1/2A	0.500	0.075	1.91	0.875	22.23	0.570	14.48	0.510	12.95	0.375	9.53	0.115	2.92	6000
S9/16A	0.563	0.110	2.79	0.813	20.64	0.600	15.24	0.563	14.3	0.500	12.70	0.250	6.35	6000
S5/8A	0.625	0.075	1.91	0.813	20.65	0.670	17.02	0.620	15.75	0.540	13.72	0.100	2.54	6000
S11/16A	0.688	0.110	2.79	1.000	25.40	0.720	18.29	0.688	17.48	0.925	23.50	0.250	6.35	5000
SM3/4A	0.750	0.094	2.39	1.120	28.45	0.810	20.57	0.760	19.30	0.610	15.49	0.250	6.35	5000
S3/4A	0.750	0.110	2.79	1.125	28.58	0.790	20.07	0.760	19.30	0.623	15.82	0.115	2.92	6500
S13/16A	0.813	0.110	2.79	1.125	28.58	0.845	21.46	0.813	20.65	0.750	19.05	0.250	6.35	5000
S7/8A	0.875	0.110	2.79	1.250	31.75	0.900	22.86	0.870	22.10	0.745	18.92	0.094	2.39	5000
S15/16A	0.937	0.111	2.80	1.251	31.76	0.980	24.9	0.937	23.8	0.875	22.23	0.250	6.35	5000
S1A	1.000	0.110	2.79	1.438	36.53	1.040	26.42	1.010	25.65	0.875	22.23	0.110	2.79	3500
S1-3/32A	1.094	0.110	2.79	1.375	34.93	1.150	29.21	1.094	27.79	1.031	26.19	0.250	6.35	4000
S1-1/8A	1.125	0.110	2.79	1.500	38.10	1.180	29.97	1.125	28.58	1.063	27.00	0.250	6.35	3000
S1-5/16A	1.313	0.110	2.79	1.688	42.88	1.360	34.54	1.313	33.35	1.250	31.75	0.250	6.35	2500
S1-1/2A	1.500	0.110	2.79	1.875	47.63	1.540	39.12	1.500	38.10	1.400	35.56	0.110	2.79	2000
S1-3/4A	1.750	0.110	2.79	2.130	54.10	1.835	46.61	1.730	43.94	1.610	40.89	0.105	2.67	1500
S2A	2.000	0.110	2.79	2.375	60.33	2.060	52.32	2.000	50.80	1.938	49.23	0.250	6.35	1000
S2-1/8A	2.125	0.110	2.79	2.500	63.50	2.175	55.25	2.125	53.98	2.063	52.40	0.250	6.35	1000
S2-1/2A	2.500	0.110	2.79	3.000	76.20	2.560	65.02	2.500	63.50	2.438	61.93	0.250	6.35	700
S2-5/8A	2.625	0.110	2.79	3.125	79.38	2.685	68.20	2.625	66.68	2.563	65.10	0.250	6.35	1200
S3A	3.000	0.110	2.79	3.375	85.73	3.060	77.72	3.000	76.20	2.938	74.63	0.250	6.35	1000
S3-3/8A	3.375	0.110	2.79	3.750	95.25	3.435	87.25	3.375	85.73	3.313	84.15	0.250	6.35	500
S3-1/2A	3.500	0.110	2.79	3.875	98.43	3.560	90.42	3.500	88.90	3.438	87.33	0.250	6.35	600

SR Series
Recessed Sheet Metal Plugs



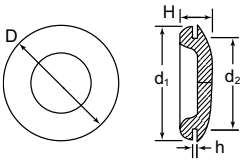
Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- Economical snap-in plug that provides an attractive finish and a secure fit for entry holes in sheet metal

Item No.	Ø Hole	Max Panel Thickness		A		B		C		D		E		Bulk Pack Qty.
	in	in	mm	in	mm	in	mm	in	mm	in	mm	In	in	
SR1/2A	0.500	0.110	2.79	0.510	12.95	0.550	13.97	0.090	2.29	0.290	7.37	0.850	21.59	3000
SR3/4A	0.750	0.180	4.57	0.750	19.05	0.800	20.32	0.190	4.83	0.380	9.65	1.156	29.36	4000
SR7/8A	0.875	0.180	4.57	0.875	22.23	0.920	23.37	0.190	4.83	0.380	9.65	1.250	31.75	3500
SR1A	1.000	0.150	3.81	1.000	25.40	1.043	26.49	0.096	2.44	0.319	8.10	1.377	34.98	3500
SR1-1/4A	1.250	0.120	3.04	1.280	32.51	1.330	33.78	0.120	3.05	0.350	8.89	1.615	41.02	2000
SR1-3/8A	1.375	0.190	4.82	1.375	34.93	1.437	36.50	0.200	5.08	0.410	10.41	1.750	44.45	1800
SR1-1/2A	1.500	0.125	3.17	1.515	38.48	1.555	39.50	0.120	3.05	0.350	8.89	1.875	47.63	1500
SR1-5/8A	1.625	0.190	4.82	1.625	41.28	1.688	42.88	0.200	5.08	0.410	10.41	2.000	50.80	1000
SR1-3/4A	1.750	0.190	4.82	1.750	44.45	1.812	46.02	0.200	5.08	0.410	10.41	2.125	53.98	1000
SR1-7/8A	1.875	0.190	4.82	1.875	47.63	1.937	49.20	0.200	5.08	0.410	10.41	2.250	57.15	900
SR2A	2.000	0.190	4.82	2.000	50.80	2.060	52.32	0.170	4.32	0.390	9.91	2.500	63.50	800
SR3A	3.000	0.190	4.82	3.000	76.20	3.065	77.85	0.200	5.08	0.410	10.41	3.500	88.90	300

SHEET METAL PLUGS

Blanking Plug Series
PVC & TPE Hole Plugs

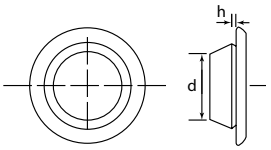


Specifications:
- Material: See Table
- Color: Black

Features:
- PVC Material: Non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities
- TPE Material: Very resistant to oils, acids and alkalies
- Resistant temperatures up to 203°F (95°C)

Item No.		Ø Hole d2		Max Panel Thickness h		D= OD		Depth H		d1		Bulk Pack Qty.
PVC	TPE	in	mm	in	mm	in	mm	in	mm	in	mm	
10860B	**15150B**	0.187	4.70	0.063	1.60	0.366	9.30	0.181	4.60	0.366	9.30	10000
10825B	**15151B**	0.250	6.40	0.063	1.60	0.374	9.50	0.197	5.00	0.374	9.50	10000
10832B	**—**	0.313	8.00	0.031	0.80	0.571	14.50	0.157	4.00	0.417	10.60	10000
10233B	**—**	0.313	8.00	0.063	1.60	0.571	14.50	0.177	4.50	0.417	10.60	10000
10488B	**—**	0.354	9.00	0.063	1.60	0.591	15.00	0.260	6.60	0.488	12.40	10000
10912B	**15155B**	0.438	11.10	0.063	1.60	0.697	17.70	0.244	6.20	0.504	12.80	10000
10768B	**—**	0.453	11.50	0.063	1.60	0.669	17.00	0.276	7.00	0.610	15.50	5000
15511B	**—**	0.469	11.90	0.047	1.20	0.689	17.50	0.280	7.10	0.626	15.90	10000
10502B	**15157B**	0.500	12.70	0.063	1.60	0.736	18.70	0.220	5.60	0.610	15.50	5000
11321B	**15158B**	0.587	14.90	0.051	1.30	0.787	20.00	0.276	7.00	0.724	18.40	10000
10213B	**15159B**	0.610	15.50	0.063	1.60	0.866	22.00	0.295	7.50	0.748	19.00	5000
40043B	**—**	0.625	15.90	0.063	1.60	0.748	19.00	0.280	7.10	0.748	19.00	10000
12914B	**—**	0.642	16.30	0.051	1.30	0.787	20.00	0.276	7.00	0.728	18.50	5000
10678B	**15160B**	0.750	19.00	0.063	1.60	0.984	25.00	0.256	6.50	0.846	21.50	5000
10499A	**15161B**	0.781	20.00	0.063	1.60	0.984	25.00	0.256	6.50	0.846	21.50	5000
11152B	**15162B**	0.866	22.00	0.094	2.40	1.122	28.50	0.323	8.20	1.047	26.60	3000
10902B	**—**	0.875	22.50	0.063	1.60	1.122	28.50	0.295	7.50	1.063	27.00	3000
11027B	**15164B**	0.968	24.50	0.094	2.40	1.181	30.00	0.343	8.70	1.083	27.50	2000
11323B	**—**	0.984	25.00	0.031	0.80	1.516	38.50	0.181	4.60	1.122	28.50	3000
10705B	**15166B**	1.000	25.40	0.063	1.60	1.260	32.00	0.354	9.00	1.114	28.30	3000
11148B	**15165B**	1.000	25.40	0.094	2.40	1.260	32.00	0.354	9.00	1.114	28.30	3000
11239B	**—**	1.250	31.50	0.031	0.80	1.504	38.20	0.276	7.00	1.240	31.50	2000
11059B	**15168B**	1.250	31.50	0.063	1.60	1.504	38.20	0.295	7.50	1.394	35.40	2000
11281B	**15170B**	1.260	32.00	0.122	3.10	1.504	38.20	0.354	9.00	1.394	35.40	2000
10877B	**15171B**	1.500	38.20	0.063	1.60	1.720	43.70	0.323	8.20	1.693	43.00	1500
10320B	**15172B**	2.031	51.50	0.063	1.60	2.264	57.50	0.488	12.40	2.071	52.60	500

Body Series
TPE Hole Plugs



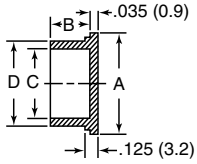
Specifications:
- Material: TPE
- Color: Black

Features:
- Each size covers a range of panel thicknesses
- Designed to fit standard metric holes
- Very resistant to oils, acids and alkalies
- Resistant temperatures up to 203°F (95°C)

Item No.	Ø Hole d		Max Panel Thickness h		Bulk Pack Qty.
	in	mm	in	mm	
16230B	0.394	10.00	0.032 - 0.078	0.8 - 2.0	5000
16231B	0.472	12.00	0.031 - 0.078	0.8 - 2.0	5000
16232B	0.551	14.00	0.031 - 0.078	0.8 - 2.0	5000
16233B	0.630	16.00	0.031 - 0.078	0.8 - 2.0	5000
16234B	0.709	18.00	0.031 - 0.078	0.8 - 2.0	2500

Item No.	Ø Hole d		Max Panel Thickness h		Bulk Pack Qty.
	in	mm	in	mm	
16235B	0.787	20.00	0.031 - 0.078	0.8 - 2.0	2500
16236B	0.866	22.00	0.031 - 0.078	0.8 - 2.0	2500
16237B	0.984	25.00	0.031 - 0.078	0.8 - 2.0	3000
16238B	1.181	30.00	0.031 - 0.078	0.8 - 2.0	2000
10517B	1.772	45.00	0.031 - 0.078	0.8 - 2.0	1000

FC PLUG Series
Circular Connector Plug

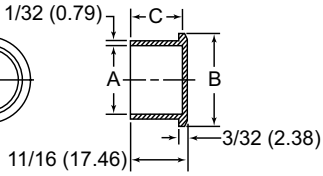


Specifications:
- Material: Low-Density Polyethylene
- Color: Yellow

Features:
- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect electrical connectors per Mil Spec 90376
- See page 36 if cap is needed

Item No.	MS90376 Dash No	To Plug Connector	A		B		C		D		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	
FC707A	MS90376-8Y	1/2 - 18	0.670	17.02	0.625	15.88	0.413	10.49	0.483	12.27	10000
FC709B	MS90376-10Y	5/8 - 24	0.750	19.05	0.625	15.88	0.530	13.46	0.595	15.11	8000
FC711B	MS90376-12Y	3/4 - 20	0.860	21.84	0.625	15.88	0.655	16.64	0.715	18.16	5500
FC713B	MS90376-14Y	7/8 - 20	1.031	26.19	0.625	15.88	0.785	19.94	0.845	21.46	4000
FC715B	MS90376-16Y	1 - 20	1.125	28.58	0.625	15.88	0.893	22.68	0.963	24.46	3000
FC717C	MS90376-18Y	1 - 1/8 - 18	1.250	31.75	0.625	15.88	1.028	26.11	1.088	27.64	3000
FC719A	MS90376-20Y	1 - 1/4 - 18	1.406	35.71	0.625	15.88	1.150	29.21	1.215	30.86	2000
FC721A	MS90376-22Y	1 - 3/8 - 18	1.500	38.10	0.625	15.88	1.270	32.26	1.340	34.04	1500
FC723A	MS90376-24Y	1 - 1/2 - 18	1.640	41.66	0.625	15.88	1.390	35.31	1.460	37.08	1400
FC725B	MS90376-25Y	1 - 5/8 - 18	1.810	45.97	0.625	15.88	1.540	39.12	1.580	40.13	1300
FC727C	MS90376-28Y	1 - 3/4 - 18	1.875	47.63	0.625	15.88	1.648	41.86	1.718	43.64	1200
FC731B	MS90376-32Y	2 - 18	2.125	53.98	0.625	15.88	1.890	48.01	1.970	50.04	900
FC735A	MS90376-36Y	2 - 1/4 - 16	2.340	59.44	0.625	15.88	2.140	54.36	2.210	56.13	800

H Series
Flanged Connector Plugs



Specifications:
- Material: Low-Density Polyethylene
- Color: Yellow

Features:
- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect connectors with standard threads

Item No.	To Plug Standard Thread	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
H1/2A	1/2" - 28	0.485	12.32	0.625	15.88	0.625	15.88	7000
H5/8A	5/8" - 24	0.601	15.27	0.750	19.05	0.625	15.88	5000
H3/4A	3/4" - 20	0.721	18.31	0.860	21.84	0.625	15.88	4000
H7/8A	7/8" - 20	0.850	21.59	1.000	25.40	0.625	15.88	2500
H1A	1" - 20	0.968	24.59	1.125	28.58	0.625	15.88	2000
H1-1/8A	1-1/8" - 18	1.097	27.86	1.250	31.75	0.625	15.88	1500
H1-1/4A	1-1/4" - 18	1.228	31.19	1.406	35.72	0.625	15.88	1500
H1-3/8A	1-3/8" - 18	1.345	34.16	1.500	38.10	0.625	15.88	2000
H1-1/2A	1-1/2" - 18	1.468	37.29	1.656	42.07	0.625	15.88	2000
H1-3/4A	1-3/4" - 18	1.732	43.99	1.906	48.42	0.625	15.88	1500

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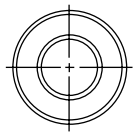
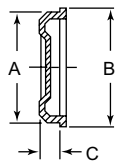
PUSH-FIT PLUGS

TP/SP/FPL Series
Packaging Tube Plugs

LINE EXTENSION

SP TP FPL





Specifications:
- Material: Low-Density Polyethylene
- Color: TP & SP — White, FPL — Black

Features:
- Designed for tube containers used in shipping, packaging and mail delivery
- Fits securely in the tube end
- SP Series has the easy finger grip construction for convenient fast removal

	Item No.	Tube ID in	A in	B in	C in	Bulk Pack Qty.
	TP1-1/2A	1.500	1.520	1.620	0.450	4000
	SP1-1/2B	1.500	1.510	1.620	0.405	3500
	TP2A	2.000	2.030	2.120	0.450	2300
	SP2D	2.000	2.020	2.120	0.405	2100
	TP2-1/8A	2.125	2.150	2.250	0.450	2000
	TP2-1/4A	2.250	2.280	2.370	0.450	1800
	TP2-1/2A	2.500	2.530	2.630	0.450	1400
	SP2-1/2C	2.500	2.520	2.630	0.405	1500
	TP2-3/4A	2.750	2.780	2.880	0.450	1250
	TP3A	3.000	3.030	3.160	0.450	1000
	SP3E	3.000	3.020	3.160	0.405	1000
	TP3-1/4A	3.250	3.280	3.410	0.450	800
	TP3-1/2A	3.500	3.530	3.660	0.450	700
	SP3-1/2A	3.500	3.530	3.660	0.450	200
	TP3-29/32A	3.900	3.940	4.060	0.450	600
	TP4A	4.000	4.060	4.170	0.450	600
	SP4A	4.000	4.030	4.160	0.450	500
	TP4-3/4A	4.750	4.790	4.930	0.450	350
	SP5A	5.000	5.040	5.170	0.450	300
	SP6A	6.000	6.040	6.170	0.450	200
•	FPL6A	6.000	6.040	6.610	1.280	150
	SP7A	7.000	7.040	7.170	0.450	200
•	FPL8A	8.000	8.025	8.610	1.290	100
•	FPL10A	10.000	10.150	10.730	1.350	50
•	FPL12A	12.000	12.140	12.700	1.350	30

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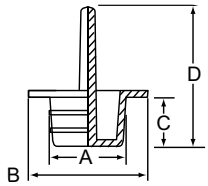
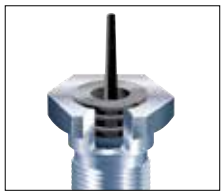
PUSH-FIT PLUGS FOR THREADS

MPP Series
Flexible Pull Plugs

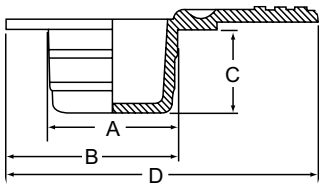


Type 1 – Center Pull



Specifications:
- Material: Thermoplastic Rubber
- Color: Black
- Temperature Range: –40°F to 275°F (–40°C to 135°C)

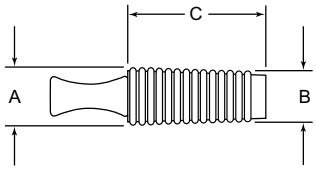
Features:
- The integral pull tab feature is designed for easy removal
- Protects threaded or non-threaded components
- Acid-resistant



Type 2 – Side Pull

Item No.	To Fit Standard Thread	To Fit Metric Thread	Type	A in	A mm	B in	B mm	C in	C mm	D in	D mm	Bulk Pack Qty.
MPP3A	1/4"	M6	2	0.216	5.5	0.610	15.5	0.315	8.0	0.913	23.20	500
MPP4A	5/16"	M8	1	0.295	7.5	0.610	15.5	0.315	8.0	0.944	24.00	500
MPP5A	5/16"	M8	2	0.295	7.5	0.591	15.0	0.315	8.0	0.994	25.25	7000
MPP10A	3/8"	M10	1	0.374	9.5	0.689	17.5	0.315	8.0	1.181	30.00	8000
MPP15A	3/8"	M10	2	0.374	9.5	0.669	17.0	0.315	8.0	1.073	27.25	7000
MPP20A	1/2"	M12	1	0.453	11.5	0.768	19.5	0.394	10.0	1.181	30.00	7000
MPP25A	1/2"	M12	2	0.453	11.5	0.669	17.0	0.315	8.0	1.112	28.24	7000
MPP30A	9/16"	M14	1	0.501	12.8	0.846	21.5	0.394	10.0	1.181	30.00	6000
MPP35A	9/16"	M14	2	0.512	13.0	0.827	21.0	0.394	10.0	1.220	30.99	6000
MPP40A	5/8"	M16	1	0.598	15.2	0.925	23.5	0.394	10.0	1.260	32.00	4000
MPP45A	5/8"	M16	2	0.610	15.5	0.906	23.0	0.394	10.0	1.309	33.25	4000
MPP50A	11/16"	M18	2	0.669	17.0	1.024	26.0	0.394	10.0	1.398	35.51	4000
MPP55A	3/4"	M18	1	0.693	17.6	1.004	25.5	0.394	10.0	1.024	26.00	500
MPP60A	13/16"	M20	1	0.764	19.4	1.083	27.5	0.472	12.0	1.024	26.00	500
MPP65A	13/16"	M20	2	0.764	19.4	1.083	27.5	0.472	12.0	1.461	37.10	500
MPP70A	7/8"	M22	1	0.843	21.4	1.161	29.5	0.472	12.0	1.024	26.00	250
MPP75A	7/8"	M22	2	0.843	21.4	1.161	29.5	0.472	12.0	1.551	39.40	250
MPP80A	1"	M24	1	0.925	23.5	1.122	28.5	0.472	12.0	1.024	26.00	250
MPP85A	1"	M24	2	0.925	23.5	1.122	28.5	0.472	12.0	1.606	40.80	250

SFP Series
Flangeless Tapered Plugs



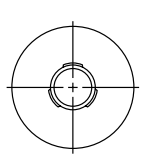
Specifications:
- Material: Thermoplastic Rubber
- Color: Black

Features:
- Protects threaded or unthreaded holes without masking the surrounding areas
- Ergonomically-friendly pull tab allows for easy installation and removal
- For high temperature version see page 76

Item No.	Plugs Threads UN	M	A in	A mm	B in	B mm	C in	C mm	Bulk Pack Qty.
10398B	#6 & #8	M3	0.196	5.0	0.118	3.0	0.59	15.0	10000
18409B	#10 & #12	M4	0.236	6.0	0.157	4.0	1.00	25.4	6000
18410B	1/4 & 5/16	M6	0.315	8.0	0.236	6.0	1.00	25.4	6000
18411B	3/8	M8	0.394	10.0	0.315	8.0	1.00	25.4	4000
18412B	7/16	M10	0.472	12.0	0.394	10.0	1.00	25.4	4000
18414B	5/8	M14	0.630	16.0	0.551	14.0	1.00	25.4	4000
18415B	11/16	M16	0.709	18.0	0.630	16.0	1.00	25.4	2000

PUSH-FIT PLUGS FOR THREADS

I Series
Push In Plugs for SAE/NPT Threads



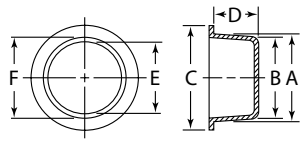
Specifications:
- Material: Low-Density Polyethylene
- Color: Yellow

Features:
- Provides all the advantages of a threaded plug with the ease of a push in style
- Snaps into place providing an attractive finish while keeping contaminants away from the fittings

Item No.	To Fit SAE Thread	To Fit NPT Thread	A in	A mm	B in	B mm	Bulk Pack Qty.
I1/4A	1/4	—	0.206	5.23	0.220	5.59	5000
I5/16A	5/16	—	0.262	6.65	0.235	5.97	5000
I3/8A	3/8	1/8	0.324	8.23	0.235	5.97	3000
PP3/8A	3/8	1/8	0.310	7.87	0.340	8.64	5000
I7/16A	7/16	—	0.380	9.65	0.270	6.86	3000
I1/2A	1/2	1/4	0.437	11.10	0.270	6.86	5000
I9/16A	9/16	—	0.495	12.57	0.290	7.37	5000
PP9/16A	9/16	—	0.480	12.19	0.360	9.14	5000
I5/8A	5/8	3/8	0.558	14.17	0.290	7.37	7500
I11/16A	11/16	—	0.610	15.49	0.290	7.37	7000
I3/4A	3/4	—	0.676	17.17	0.290	7.37	6000
I13/16A	13/16	1/2	0.732	18.59	0.290	7.37	5000

Item No.	To Fit SAE Thread	To Fit NPT Thread	A in	A mm	B in	B mm	Bulk Pack Qty.
I7/8A	7/8	—	0.798	20.27	0.295	7.49	4500
I1A	1	3/4	0.922	23.42	0.290	7.37	3500
I1-1/16A	1 - 1/16	—	0.972	24.69	0.290	7.37	3000
I1-3/16A	1 - 3/16	—	1.090	27.69	0.340	8.64	2000
I1-1/4A	1 - 1/4	—	1.160	29.46	0.340	8.64	2000
I1-5/16A	1 - 5/16	1	1.215	30.86	0.340	8.64	2000
I1-7/16A	1 - 7/16	—	1.360	34.54	0.460	11.68	1200
I1-1/2A	1 - 1/2	—	1.405	35.69	0.460	11.68	1100
I1-5/8A	1 - 5/8	—	1.525	38.74	0.460	11.68	1000
I1-3/4A	1 - 3/4	—	1.650	41.91	0.460	11.68	800
I1-7/8A	1 - 7/8	—	1.775	45.09	0.460	11.68	800

NPT Series
Plugs for NPT Threads



Specifications:
- Material: Low-Density Polyethylene
- Colors: See Table

Features:
- Designed specifically to be used to plug NPT tapered threaded fittings
- The tapered design allows the part to plug multiple inner diameters

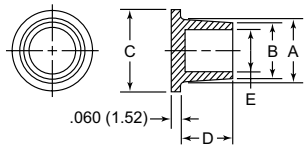
To Assure Proper Fit:

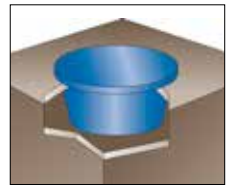
Plugs

Plug dimension “A” should be approx. 1% larger than the inner diameter of the part. Minimum of .020"

Item No.	Color	A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	F in	F mm	Bulk Pack Qty.
NPT3/8A	Yellow	0.615	15.62	0.570	14.48	0.750	19.05	0.285	7.24	0.497	12.62	0.535	13.59	5000
NPT3/4A	Red	0.955	24.26	0.922	23.42	1.125	28.58	0.363	9.22	0.849	21.56	0.872	22.15	5500
NPT1-1/4A	Red	1.560	39.62	1.510	38.35	1.750	44.45	0.435	11.05	1.401	35.59	1.481	37.62	2000
NPT2A	Blue	2.275	57.79	2.225	56.52	2.437	61.90	0.495	12.57	2.092	53.14	2.194	55.73	2500
NPT2-1/2A	Black	2.725	69.22	2.680	68.07	2.875	73.03	0.480	12.19	2.512	63.80	2.628	66.75	600
NPT3A	Blue	3.325	84.46	3.285	83.44	3.500	88.90	0.470	11.94	3.154	80.11	3.220	81.79	400
NPT3-1/2A	Black	3.785	96.14	3.775	95.89	4.062	103.17	0.750	19.05	3.665	93.09	3.675	93.35	550
NPT4A	Blue	4.315	109.61	4.295	109.09	4.687	119.05	0.790	20.07	4.077	103.56	4.115	104.52	500
NPT5A	Blue	5.360	136.14	5.350	135.89	5.750	146.05	0.850	21.59	5.205	132.21	5.215	132.46	275
NPT6A	Blue	6.425	163.20	6.390	162.31	6.750	171.45	0.895	22.73	6.252	158.80	6.272	159.31	180

EN Series
Plugs for NPT Threads





Specifications:
- Material: Low-Density Polyethylene
- Color: Blue

Features:
- Designed specifically to be used to plug NPT tapered threaded fittings
- The tapered design allows the part to plug multiple inner diameters

To Assure Proper Fit:

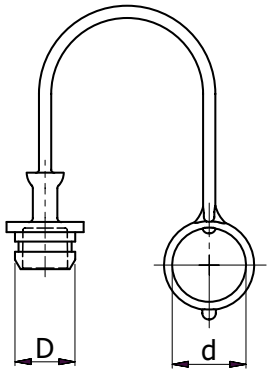
Plugs

Plug dimension “A” should be approx. 1% larger than the inner diameter of the part. Minimum of .020"

Item No.	NPT Size I.D.	A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	Bulk Pack Qty.
EN1/4A	1/4	0.485	12.32	0.420	10.67	0.609	15.48	0.281	7.14	0.355	9.02	5000
EN3/8A	3/8	0.640	16.26	0.550	13.97	0.766	19.45	0.500	12.70	0.500	12.70	6500
EN1/2A	1/2	0.785	19.94	0.690	17.53	0.906	23.02	0.500	12.70	0.625	15.88	4000
EN3/4A	3/4	0.975	24.77	0.870	22.10	1.094	27.78	0.625	15.88	0.812	20.63	2500
EN1A	1	1.200	30.48	1.090	27.69	1.344	34.13	0.656	16.67	1.301	26.19	1500

Hydraulic Quick Release Dust Plugs

NEW

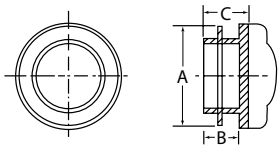


Specifications:
- Material: Thermoplastic Elastomer
- Color: See Table

Features:
- Suitable to plug ISO 7241-1 Series A and B Quick Couplings
- Designed to remain attached to the hose
- Excellent protection from dirt, moisture and corrosion
- Temperature Range: -40°F - 275°F (-40°C - 135°C)
- For cap version see page 38

Item No.						D		d		Bulk Pack
Red	Yellow	Green	Blue	Size	Series	mm	in	mm	in	Qty.
499766	499776	499786	499796	1/4"	ISO A	12.7	0.500	19.6	0.772	150
499767	499777	499787	499797	3/8"	ISO A	18.3	0.720	25.0	0.984	150
499768	499778	499788	499798	1/2"	ISO A	23.6	0.929	31.0	1.220	150
499769	499779	499789	499799	3/4"	ISO A	29.2	1.150	36.0	1.417	150
499770	499780	499790	499800	1"	ISO A	36.5	1.437	48.0	1.890	150
499771	499781	499791	499801	1/4"	ISO B	15.5	0.610	22.2	0.874	150
499772	499782	499792	499802	3/8"	ISO B	20.0	0.787	28.0	1.102	150
499773	499783	499793	499803	1/2"	ISO B	25.7	1.012	35.0	1.378	150
499774	499784	499794	499804	3/4"	ISO B	32.7	1.287	42.0	1.654	150
499775	499785	499795	499805	1"	ISO B	40.5	1.594	51.0	2.008	150

SF Series
Snap Fit Plugs for Standard/JIC/Metric/BSP Threads



Specifications:
- Material: Low-Density Polyethylene
- Color: Red

Features:
- Once pushed into position, a single turn gives a tight fit
- Each plug covers a range of different thread sizes and styles
- The 12598A* has pull tab not as illustrated

Item No.	To Fit Thread Sizes			A		B		C		Bulk Pack
	Standard/JIC	Metric	BSP	in	mm	in	mm	in	mm	Qty.
10530A	7/16"	M10	1/8"	0.386	9.80	0.157	4.00	0.236	6.00	12000
12363A	1/2"	M12, M13, M14	1/4"	0.516	13.10	0.197	5.00	0.276	7.00	10000
12364A	5/8"	M16	3/8"	0.650	16.50	0.197	5.00	0.276	7.00	10000
10314B	3/4"	M18	1/2"	0.720	18.30	0.276	7.00	0.354	9.00	7000
12365A	—	M20	1/2"	0.839	21.30	0.276	7.00	0.354	9.00	5000
12366A	7/8"	M22	5/8"	0.882	22.40	0.276	7.00	0.354	9.00	5000
12621A	—	M24	—	0.925	23.50	0.276	7.00	0.354	9.00	3000
12367A	11/16"	M25, M26	3/4"	1.004	25.50	0.276	7.00	0.354	9.00	2000
12368A	1 - 1/8"	M28	7/8"	1.098	27.90	0.276	7.00	0.354	9.00	3000
12369A	1 - 5/16"	M32	1"	1.260	32.00	0.276	7.00	0.354	9.00	2500
12622A	1 - 1/2", 1 - 3/8"	M36	1-1/8"	1.406	35.70	0.276	7.00	0.354	9.00	2000
12598A*	1 - 5/8"	M40, M42	1-1/4"	1.634	41.50	0.276	7.00	0.354	9.00	2000

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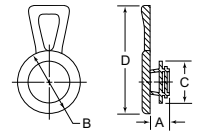
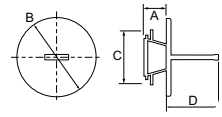
PUSH-FIT PLUGS FOR THREADS

EZP Series
Quick Fit Easy Pull Plugs for Unified Standard/Metric Threads



Type 1 - Lateral Pull



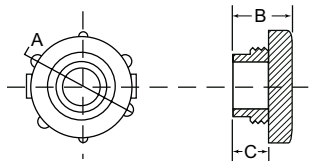
Type 2 - Central Pull

Specifications:
- Material: Low-Density Polyethylene
- Color: Red

Features:
- Patented Quick Fit design easily locks the plug into place with a simple push
- Strong and flexible pull-tab for quick removal
- Seven sizes in two styles protect more than 25 popular threaded sizes

Item No.	To Fit		Type	A		B		C		D		Bulk Pack Qty.
	Standard Thread	Metric Thread		in	mm	in	mm	in	mm	in	mm	
EZP1010A	5/16",3/8"	M8	1	0.300	7.62	0.515	13.08	0.375	9.53	1.195	30.35	10000
EZP1020C	7/16"	M10, M12	1	0.300	7.62	0.748	19.05	0.520	13.20	1.340	34.04	5000
EZP2020A	7/16"	M10, M12	2	0.354	9.00	0.748	19.00	0.519	13.20	0.834	21.20	500
EZP1030A	1/2",5/8",9/16"	M14, M16	1	0.275	7.00	0.893	22.70	0.649	16.50	1.574	40.00	5000
EZP2030A	1/2",5/8",9/16"	M14, M16	2	0.275	7.00	0.893	22.70	0.649	16.50	0.834	21.20	500
EZP1040A	3/4"	M18, M20	1	0.314	8.00	1.181	30.00	0.767	19.50	1.850	47.00	4000
EZP2040A	3/4"	M18, M20	2	0.314	8.00	1.181	30.00	0.767	19.50	0.842	21.40	250
EZP1050A	7/8"	M22, M24	1	0.374	9.50	1.350	34.30	0.937	23.80	2.023	51.40	3000
EZP2050A	7/8"	M22, M24	2	0.374	9.50	1.350	34.30	0.937	23.80	0.842	21.40	250
EZP1060A	1 - 1/16", 1 - 1/8"	M26, M28	1	0.374	9.50	1.574	40.00	1.086	27.60	2.244	57.00	2000
EZP2060A	1 - 1/16", 1 - 1/8"	M26, M28	2	0.374	9.50	1.574	40.00	1.086	27.60	0.846	21.50	100
EZP1070A	1 - 1/4", 1 - 3/8"	M30, M36	1	0.393	10.00	1.771	45.00	1.358	34.50	2.440	62.00	1500

QFP Series
Quick Fit Plugs for UNF/JIC/Metric Threads



Specifications:
- Material: Low-Density Polyethylene
- Color: Red

Features:
- Fewer thread forms allow for quick application

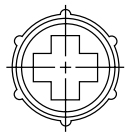
UNF/JIC

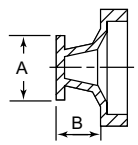
Item No.	To Fit UNF/ JIC Thread Size	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
QFP005A	7/16" × 20	0.728	18.50	0.354	9.00	0.232	5.90	5000
QFP010A	1/2" × 20	0.811	20.60	0.358	9.10	0.232	5.90	5000
QFP015A	9/16" × 18	0.843	21.40	0.354	9.00	0.232	5.90	5000
QFP020A	3/4" × 16	1.051	26.70	0.366	9.30	0.232	5.90	3000
QFP025A	7/8" × 14	1.173	29.80	0.362	9.20	0.244	6.20	2500
QFP030A	1 - 1/16" × 12	1.335	33.90	0.354	9.00	0.232	5.90	2000
QFP035A	1 - 5/16" × 12	1.587	40.30	0.37	9.40	0.236	6.00	1500

Metric

Item No.	To Fit Metric Thread Size	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
QFP105A	M14 × 1.5	0.846	21.50	0.492	12.50	0.315	8.00	5000
QFP110A	M16 × 1.5	0.929	23.60	0.492	12.50	0.315	8.00	3000
QFP115A	M20 × 1.5	1.157	29.38	0.512	13.00	0.315	8.00	3000
QFP120A	M30 × 2.0	1.556	34.52	0.575	14.60	0.386	9.80	1500
QFP125A	M36 × 2.0	1.795	45.60	0.649	16.48	0.413	10.50	1000
QFP130A	M42 × 2.0	2.133	54.17	0.854	21.69	0.61	15.50	700
QFP135A	M45 × 2.0	2.232	56.69	0.728	18.50	0.500	12.70	700
QFP140A	M52 × 2.0	2.594	65.90	0.839	21.30	0.606	15.40	500

UN Series
Quick Fit Plugs for Standard/JIC/Metric/BSP Threads





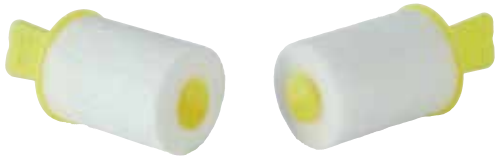
Specifications:
- Material: Low-Density Polyethylene
- Color: Red

Features:
- This uniquely-designed range of plugs have sets of blades which will lock tight when pushed into a threaded hole and twisted
- Each plug covers a range of different thread sizes and styles
- Easily removes by simply unscrewing the plug from the thread

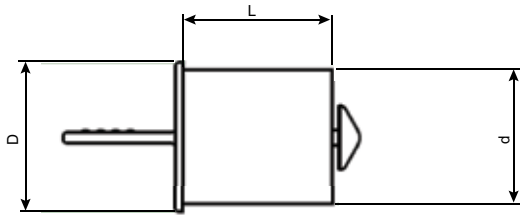
Item No.	To Fit Thread Sizes				A		B		Bulk Pack Qty.
	NPT	Standard/ JIC	Metric	BSP	in	mm	in	mm	
UN9995A	—	—	—	—	0.420	10.66	0.233	5.91	10000
UN9996A	1/8"	7/16"	M10	1/8"	0.438	11.12	0.240	6.09	10000
UN9997A	1/4"	9/16"	M14	—	0.575	14.60	0.285	7.23	10000
UN9998A	—	1/2"	M12	1/4"	0.485	12.31	0.325	8.25	10000
UN9763A	—	3/4"	M16 - 20	3/8"	0.780	19.81	0.375	9.52	5000
UN9764A	—	1"	M20 - 24	1/2" - 5/8"	0.990	25.14	0.445	11.30	2500
UN9774A	3/4"	1 - 3/16"	M30	3/4" - 7/8"	1.240	31.49	0.435	11.04	2000
UN9765A	—	1-7/16"	M33 - 36	1"	1.475	37.46	0.445	11.30	1000

FLUID ABSORPTION PLUG

Fluid Absorption Plugs



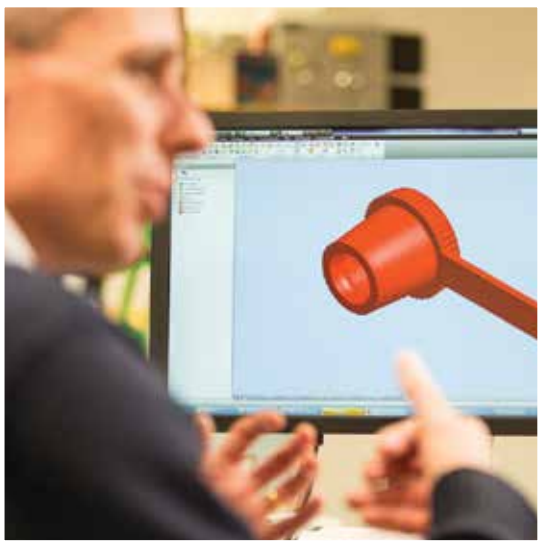
NEW



Specifications:
- Material: Polypropylene, Bi-Component Fiber
- Color: Yellow

Features:
- Control excess fluid residue from leaking
- Unique design allows quick, easy installation and removal to save time and cost
- Safer, easier and cleaner than a conventional plug; eliminates residue in the thread/hole

Item No.	To Fit Thread Sizes			D	d	l	Absorption**	Bulk Pack Qty.
	Metric	BSP	UNF	mm	mm	mm	ml	
1342611	M10 x 1.5	1/8" x 28	3/8" x 24	10.7	8.5	15	0.54	1000
1342612	M10 x 1.5	1/8" x 28	3/8" x 24	10.7	8.5	25	0.89	1000
1342613	M12 x 1.5	—	—	12.5	10.5	15	0.86	1000
1342614	M12 x 1.5	—	—	12.5	10.5	25	1.43	1000
1342615	—	1/4" x 19	—	13.6	11.5	15	1.05	1000
1342616	—	1/4" x 19	—	13.6	11.5	25	1.76	1000
1342617	M14 x 1.5	—	9/16" x 18	14.5	12.5	15	1.02	1000
1349120	M14 x 1.5	—	9/16" x 18	14.5	12.5	20	1.36	1000
1342618	M14 x 1.5	—	9/16" x 18	14.5	12.5	25	1.70	1000
1342619	M16 x 1.5	—	5/8" x 18	16.5	14.5	15	1.48	1000
1342620	M16 x 1.5	—	5/8" x 18	16.5	14.5	25	2.46	1000
1342621	M18 x 1.5	—	—	19.0	17.0	15	2.14	1000
1342622	M18 x 1.5	—	—	19.0	17.0	25	3.57	1000
1342623	—	3/8" x 19	—	17.2	15.0	15	1.65	1000
1342624	—	3/8" x 19	—	17.2	15.0	25	2.75	1000
1349119	—	-	—	20.0	18.0	20	3.25	1000
1342625	M20 x 1.5	1/2" x 14	—	20.8	18.5	25	4.32	1000
1342626	M22 x 1.5	5/8" x 14	—	22.8	21.0	25	5.60	1000
1342627	—	3/4" x 14	1-1/16" x 12	26.5	24.6	25	8.04	1000
1342628	—	1" x 11	—	32.5	30.5	35	17.68	1000



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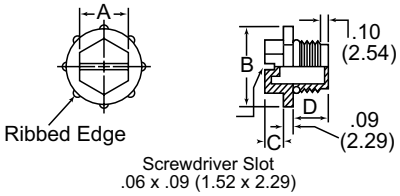
THREADED PLUGS

BL Series
UNF Standard Threaded Plugs (O-Ring optional)



Specifications:
- Material: Polypropylene
- Color: Yellow

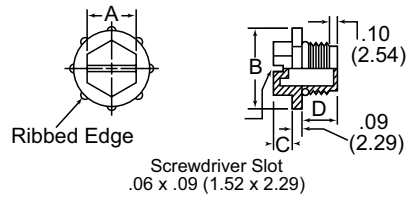
Features:
- Can be applied or removed by hand, hex wrench or screwdriver
- Optional O-Ring gives this part a water tight seal for superior leakage protection

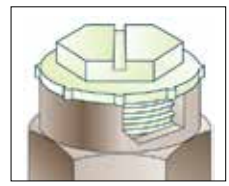
See pages 64 and 65 for Application Wizards.

Item No.	Item No. w/ O-Ring	To Plug Standard Thread Size	A		B		C		D		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	
BL3A	BL3L	7/16" - 20	0.430	10.92	0.620	15.75	0.180	4.57	0.390	9.91	5000
*BL4A	*BL4B	1/2" - 13	0.500	12.70	0.687	17.46	0.281	7.14	0.410	10.41	3000
BL5A	BL5K	9/16" - 18	0.500	12.70	0.750	19.05	0.180	4.57	0.420	10.67	3000
BL7A	BL7J	3/4" - 16	0.680	17.27	0.940	23.88	0.190	4.83	0.520	13.21	1500
BL8A	BL8H	7/8" - 14	0.750	19.05	1.060	26.92	0.240	6.10	0.560	14.22	2100
BL10A	BL10I	1-1/16" - 12	0.870	22.10	1.310	33.27	0.250	6.35	0.660	16.76	600
BL11A	BL11D	1-3/16" - 12	1.000	25.40	1.500	38.10	0.300	7.62	0.700	17.78	425
BL12A	BL12H	1-5/16" - 12	1.070	27.18	1.610	40.89	0.290	7.37	0.700	17.78	700
BL13A	BL13D	1-5/8" - 12	1.125	28.58	1.880	42.75	0.300	7.62	0.770	19.56	500
BL14A	BL14C	1-7/8" - 12	1.500	38.10	2.125	53.98	0.300	7.62	0.750	19.05	700

*BL4A and BL4B are black and UNC Threaded

BL Nylon Series
UNF Standard Threaded Nylon Plugs (O-Ring optional)





Specifications:
- Material: Nylon
- Color: Natural

Features:
- Can be applied or removed by hand, hex wrench or screwdriver
- Optional O-Ring gives this part a water tight seal for superior leakage protection
- Recommended when strength and abrasion resistance are desired
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Nylon is able to withstand higher temperatures than Polypropylene
- Temperature Range: -40°F - 230°F (-40°C - 110°C)

Item No.	Item No. w/ O-Ring	To Plug Standard Thread Size	A		B		C		D		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	
BL3D	BL3I	7/16" - 20	0.430	10.92	0.620	15.75	0.180	4.57	0.390	9.91	10000
BL5C	BL5N	9/16" - 18	0.500	12.70	0.750	19.05	0.180	4.57	0.420	10.67	6000
BL7C	BL7G	3/4" - 16	0.680	17.27	0.940	23.88	0.190	4.83	0.520	13.21	3000
BL8B	BL8P	7/8" - 14	0.750	19.05	1.060	26.92	0.240	6.10	0.560	14.22	2100
BL10C	BL10M	1-1/16" - 12	0.870	22.10	1.310	33.27	0.250	6.35	0.660	16.76	1200
BL11E	BL11C	1-3/16" - 12	1.000	25.40	1.500	38.10	0.300	7.62	0.700	17.78	425
BL12B	BL12M	1-5/16" - 12	1.070	27.18	1.610	40.89	0.290	7.37	0.700	17.78	700
BL13G	BL13C	1-5/8" - 12	1.125	28.58	1.880	42.75	0.300	7.62	0.770	19.56	1000

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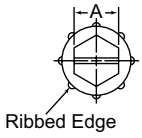
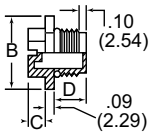
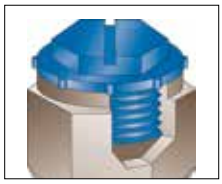
B Series
UNF Standard Threaded Plugs







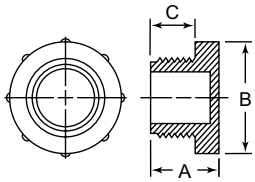
Specifications:
- Material: High-Density Polyethylene
- Color: Blue

Features:
- Threaded plug with a serrated grip (used for a variety of applications)
- Can be applied or removed by hand, hex wrench or screwdriver

Item No.	To Plug Standard Thread Size	A		B		C		D		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	
B3A	7/16" - 20	0.430	10.92	0.620	15.75	0.180	4.57	0.300	7.62	11000
B4A	1/2" - 20	0.500	12.70	0.680	12.27	0.180	4.57	0.360	9.14	7500
B5A	9/16" - 18	0.500	12.70	0.750	19.05	0.180	4.57	0.382	9.70	6000
B6A	5/8" - 18	0.560	14.22	0.810	20.57	0.180	4.57	0.350	8.89	5000
B7A	3/4" - 16	0.680	17.27	0.940	23.88	0.190	4.83	0.440	11.18	3500

Item No.	To Plug Standard Thread Size	A		B		C		D		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	
B8A	7/8" - 14	0.750	19.05	1.060	26.92	0.240	6.10	0.500	12.70	2100
B9A	1" - 14	0.750	19.05	1.180	29.97	0.250	6.35	0.430	10.92	2000
B10A	1-1/6" - 14	0.870	22.10	1.310	33.27	0.250	6.35	0.645	16.38	1200
B11A	1-1/16" - 12	0.870	22.10	1.310	33.27	0.250	6.35	0.620	15.75	1300

TPUNF Series
UNF/JIC Knurled Head Threaded Plugs



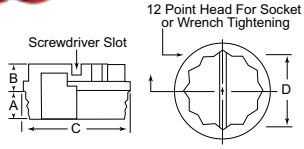
Specifications:
- Material: Low-Density Polyethylene
- Color: Red

Features:
- Knurled head for easy hand installation or removal
- Secure fit for excellent protection against dirt, moisture and corrosion

Item No.	To Plug UNF/ JIC Thread Size	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
10498A	5/16" - 18	0.472	12.00	0.571	14.50	0.291	7.40	5000
10709A	5/16" - 24	0.484	12.30	0.583	14.80	0.291	7.40	5000
10692A	3/8 - 24	0.551	14.00	0.539	13.70	0.374	9.50	5000
10763A	7/16" - 20	0.634	16.10	0.685	17.40	0.433	11.00	5000
12031A	7/16" - 24	0.476	12.10	0.701	17.80	0.28	7.10	5000
10696A	1/2" - 20	0.602	15.30	0.728	18.50	0.413	10.50	5000
10668A	9/16" - 18	0.606	15.40	0.890	22.60	0.421	10.70	5000
12033A	9/16" - 24	0.535	13.60	0.744	18.90	0.354	9.00	5000
10940A	5/8" - 18	0.583	14.80	0.827	21.00	0.394	10.00	5000
12965A	5/8" - 24	0.583	14.80	0.815	20.70	0.394	10.00	5000
12786A	11/16" - 16	0.713	18.10	1.008	25.60	0.531	13.50	3000

Item No.	To Plug UNF/ JIC Thread Size	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
10575A	3/4" - 16	0.736	18.70	1.063	27.00	0.543	13.80	3000
12827A	13/16" - 16	0.713	18.10	1.051	26.70	0.531	13.50	2500
10326A	7/8" - 14	0.728	18.50	1.134	28.80	0.535	13.60	2500
12785A	1" - 14	0.701	17.80	1.26	32.00	0.52	13.20	2000
10460A	1-1/16" - 12	0.724	18.40	1.315	33.40	0.543	13.80	2000
12359A	1-1/16" - 14	0.720	18.30	1.311	33.30	0.539	13.70	2000
11506A	1-3/16" - 12	0.72	18.30	1.449	36.80	0.531	13.50	1500
10671A	1-5/16" - 12	0.642	16.30	1.547	39.30	0.433	11.00	1500
11752A	1-5/8" - 12	0.681	17.30	1.992	50.60	0.508	12.90	800
11755A	1-7/8" – 12	0.886	22.50	2.299	58.40	0.657	16.70	400
12040A	2-1/2" – 12	0.811	20.60	2.898	73.60	0.591	15.00	300

BLM Series
UNF Standard Threaded Molded O-Ring Plugs



Specifications:
- Material: High-Density Polyethylene
- Color: Red

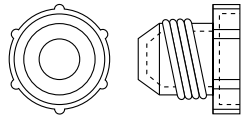
Features:
- Often used on flat-faced hydraulic fittings
- Integral O-Ring type bead prevents oil leakage or entrance of contaminants
- The flange lip compresses against the surface to keep contaminants out
- Can be applied or removed by hand, wrench, socket or screwdriver

Item No.	To Plug Standard Thread Size	A		B		C		D	Bulk Pack Qty.
		in	mm	in	mm	in	mm	i	
BLM3B	7/16" - 20	0.344	8.74	0.281	7.14	0.660	16.76	3/8	8000
BLM3-24B	7/16" - 24	0.344	8.74	0.281	7.14	0.660	16.76	3/8	8000
BLM4B	1/2" - 20	0.344	8.74	0.313	7.95	0.730	18.54	7/16	6000
BLM5B	9/16" - 18	0.350	8.89	0.323	8.20	0.800	20.32	1/2	6000
BLM6B	5/8" - 18	0.375	9.53	0.313	7.95	0.820	20.83	9/16	5000
BLM7B	3/4" - 16	0.406	10.31	0.406	10.31	1.020	25.91	11/16	3000
BLM8B	7/8" - 14	0.469	11.91	0.313	7.95	1.160	29.46	13/16	2000

Item No.	To Plug Standard Thread Size	A		B		C		D	Bulk Pack Qty.
		in	mm	in	mm	in	mm	i	
BLM9B	1" - 14	0.500	12.70	0.313	7.95	1.250	31.75	7/8	1500
BLM10B	1-1/16"-12	0.594	15.09	0.313	7.95	1.450	36.83	1	1000
BLM11B	1-3/16"-12	0.594	15.09	0.344	8.74	1.500	38.10	1-1/8	1000
BLM12B	1-5/16"-12	0.594	15.09	0.344	8.74	1.740	44.20	1-1/4	1000
BLM13B	1-5/8"-12	0.594	15.09	0.344	8.74	2.156	54.76	1-1/2	700
BLM14B	1-7/8"-12	0.594	15.09	0.344	8.74	2.188	55.58	1-5/8	700

THREADED PLUGS

TE Series
Threaded Plugs for 37° JIC Flared Fittings



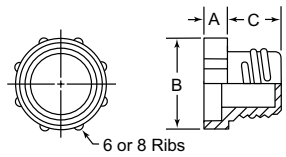
Specifications:
- Material: Low-Density Polyethylene
- Color: Red

Features:
- Designed with a knurled head for easy finger installation
- Used to seal light pressure requirements on 37° JIC flared fittings
- Functionally Equivalent to Spec: NAS-833, NAS-815 (MIL-C5501/1, MIL-C52078)

Item No.	Tubing Size in	To Plug JIC Thread Size	JIC Fitting Size	Bulk Pack Qty.
TE1000A	1/8	5/16" - 24	2	5000
TE1005A	3/16	3/8" - 24	3	5000
TE1010A	1/4	7/16" - 20	4	5000
TE1015A	5/16	1/2" - 20	5	5000
TE1020A	3/8	9/16" - 18	6	5000
TE1025A	3/8	5/8" - 18	—	5000
TE1030A	1/2	3/4" - 16	8	2500
TE1035A	5/8	7/8" - 14	10	2500
TE1040A	3/4	1 - 1/16" - 12	12	2500

Item No.	Tubing Size in	To Plug JIC Thread Size	JIC Fitting Size	Bulk Pack Qty.
TE1045A	3/4	1 - 1/16" - 14	—	1000
TE1050A	7/8	1 - 3/16" - 12	14	2500
TE1055A	1	1 - 5/16" - 12	16	1000
TE1060A	—	1 - 1/2 - 12	—	1000
TE1065A	1 - 1/4	1 - 5/8 - 12	20	1000
TE1070A	—	1 - 3/4 - 12	—	1000
TE1075A	1 - 1/2	1 - 7/8 - 12	24	500
TE1080A	1 - 3/4	2 - 1/4 - 12	28	500
TE1085A	2	2 - 1/2 - 12	32	500

TF Series
Threaded Plugs for Flat Faced O-Ring Hydraulic Fittings

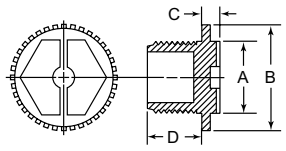


Specifications:
- Material: Polyethylene
- Color: Red

Features:
- Head designed with six or eight ribs for simple hand or mechanical installation
- Used to protect flat-faced O-Ring hydraulic fittings

Item No.	Tubing Size in	To Plug Thread Size	A in	A mm	B in	B mm	C in	C mm	Bulk Pack Qty.
TF10A	1/4	9/16" - 18	0.250	6.40	0.690	17.50	0.380	9.50	5000
TF20B	3/8	11/16" - 16	0.250	6.40	0.870	22.10	0.410	10.4	5000
TF30B	1/2	13/16" - 16	0.250	6.40	0.940	23.90	0.470	11.9	5000
TF40B	5/8	1" - 14	0.250	6.40	1.160	29.50	0.570	14.5	2500
TF50B	3/4	1 - 3/16" - 12	0.250	6.40	1.320	33.50	0.610	15.5	2500
TF60B	1	1 - 7/16" - 12	0.250	6.40	1.630	41.40	0.690	17.5	1000
TF80B	1-1/4	1 - 11/16" - 12	0.250	6.40	1.880	47.75	0.890	22.6	1000

FP Series
NS & NF Class 1-2-3 Threaded Plugs (O-Ring Optional)



Specifications:
- Material: Polypropylene
- Color: Red

Features:
- Can be applied or removed by hand, hex wrench or screwdriver
- Will fit NS and NF Class 1-2-3 standard threads
- Optional O-Ring gives this part a watertight seal for superior leakage protection

Item No.	Item No. w/ O-Ring	To Plug Standard Thread Size	A in	A mm	B in	B mm	C in	C mm	D in	D mm	Bulk Pack Qty.
FP104A	**FP104B**	7/16" - 20	0.438	11.11	0.625	15.88	0.188	4.76	0.300	7.62	9500
FP108A	**FP108B**	9/16" - 18	0.500	12.70	0.781	19.84	0.188	4.76	0.350	8.89	5000
FP110A	**FP110B**	5/8" - 18	0.563	14.29	0.813	20.64	0.188	4.76	0.350	8.89	4500
FP115A	**FP115B**	3/4" - 16	0.688	17.46	0.938	23.81	0.188	4.76	0.440	11.18	2700
FP120A	**FP120B**	7/8" - 14	0.750	19.05	1.063	26.99	0.250	6.35	0.500	12.70	1800
FP122A	**FP122B**	1" - 14	0.750	19.05	1.188	30.16	0.250	6.35	0.470	11.94	1500

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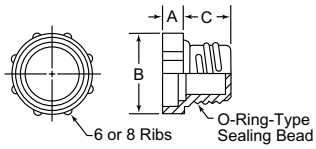
TMO Series
Threaded Plugs for SAE O-Ring Ports



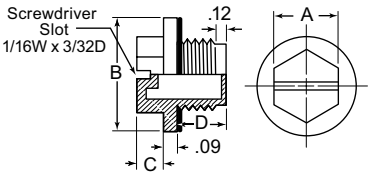
Specifications:
- Material: High-Density Polyethylene
- Color: Red

Features:
- Designed with an easy to grip head for ease of hand installation
- Threads meet UN and UNS specifications
- Integral O-Ring type bead prevents leakage and entrance of contaminants
- Protects threaded components from dust, moisture and damage during production, storage and shipment

Item No.	To Plug Standard Thread Size	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
TMO104A	7/16"–20	0.320	8.13	0.650	16.51	0.380	9.65	5500
TMO105A	1/2"–20	0.320	8.13	0.720	18.29	0.380	9.65	7500
TMO106A	9/16"–18	0.360	9.14	0.780	19.81	0.380	9.65	6000
TMO108A	3/4"–16	0.400	10.16	0.980	24.89	0.380	9.65	3500

Item No.	To Plug Standard Thread Size	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
TMO110A	7/8"–14	0.450	11.43	1.110	28.19	0.380	9.65	2100
TMO112A	1-1/16"–12	0.620	15.75	1.310	33.27	0.380	9.65	1200
TMO116A	1-5/16"–12	0.620	15.75	1.560	39.62	0.380	9.65	700
TMO120A	1-5/8"–12	0.620	15.75	1.880	47.75	0.380	9.65	700

BLWF Series
UNF Standard Threaded Wide Flange Plugs

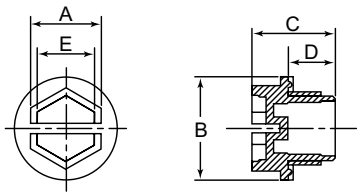


Specifications:
- Material: Plug – Nylon, Gasket – Nitrile
- Color: Plug – Yellow, Gasket – Black

Features:
- The wide flange design keeps any paint flakes away from the hole when removed
- The nylon material absorbs paint keeping paint flakes to a minimum
- The nitrile gasket seals the plug to the mating surface for a watertight seal
- Can be applied or removed by hand, screwdriver or with a torque wrench
- Temperature Range: -40°F - 230°F (-40°C - 110°C)

Item No.	To Plug UNF Thread Size	A		B		C		D		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	
BLWF100A	7/16" - 20	0.500	12.70	0.775	19.69	0.180	4.57	0.390	9.91	5000
BLWF105A	1/2" - 20	0.500	12.70	0.853	21.67	0.180	4.57	0.405	10.29	5000
BLWF110A	9/16" - 18	0.500	12.70	0.917	23.29	0.180	4.57	0.420	10.67	2500
BLWF115A	3/4" - 16	0.750	19.05	1.130	28.70	0.190	4.83	0.520	13.21	2500
BLWF120A	7/8" - 14	0.750	19.05	1.284	32.61	0.240	6.10	0.560	14.22	2500
BLWF125A	1 - 1/16" - 12	1.000	25.40	1.577	40.06	0.250	6.35	0.660	16.76	1000
BLWF130A	1 - 3/16" - 12	1.000	25.40	1.722	43.74	0.300	7.62	0.700	17.78	1000
BLWF135A	1 - 5/16" - 12	1.000	25.40	1.867	47.42	0.290	7.37	0.700	17.78	1000
BLWF140A	1 - 5/8" - 12	1.125	28.57	2.217	56.31	0.300	7.62	0.770	19.56	500
BLWF145A	1 - 7/8" - 12	1.500	38.10	2.507	63.68	0.300	7.62	0.750	19.05	500

TSSP Series
Sealing Threaded Plugs For UNF Threads



Specifications:
- Material: Nylon
- Color: Yellow

Features:
- The double sealing ring design on the underside of the flange provides a positive seal
- Design includes five complete threads for a secure fit
- Can be manually applied or removed with a screwdriver, spanner, socket or allen key or with power tools
- Head designed not to trap liquid
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Temperature Range: -40°F - 320°F (-40°C - 160°C)
- See page 60 for Metric and BSP Threads

See pages 64 and 65 for Application Wizards.

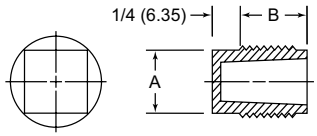
Item No.	To Plug UNF Thread Size	A		B		C		D		E		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	
TSSP3/8-24A	3/8" - 24	0.354	9.0	0.630	16.0	0.689	17.5	0.394	10.0	0.236	6.0	5000
TSSP7/16-20A	7/16" - 20	0.394	10.0	0.669	17.0	0.689	17.5	0.394	10.0	0.276	7.0	5000
TSSP1/2-20A	1/2" - 20	0.512	13.0	0.748	19.0	0.689	17.5	0.394	10.0	0.394	10.0	3000
TSSP9/16-18A	9/16" - 18	0.512	13.0	0.807	20.5	0.689	17.5	0.394	10.0	0.394	10.0	3000
TSSP5/8-18A	5/8" - 18	0.591	15.0	0.866	22.0	0.689	17.5	0.394	10.0	0.472	12.0	3000
TSSP3/4-16A	3/4" - 16	0.748	19.0	1.024	26.0	0.689	17.5	0.394	10.0	0.630	16.0	3000
TSSP7/8-14A	7/8" - 14	0.827	21.0	1.122	28.5	0.768	19.5	0.472	12.0	0.709	18.0	3000
TSSP1-14A	1" - 14	0.945	24.0	1.240	31.5	0.768	19.5	0.472	12.0	0.827	21.0	1000
TSSP1-1/16-12A	1 - 1/16" - 12	0.945	24.0	1.299	33.0	0.768	19.5	0.472	12.0	0.827	21.0	1000
TSSP1-3/16-12A	1 - 3/16" - 12	1.181	30.0	1.437	36.5	0.886	22.5	0.591	15.0	1.063	27.0	1000
TSSP1-5/16-12A	1 - 5/16" - 12	1.181	30.0	1.575	40.0	0.886	22.5	0.591	15.0	1.063	27.0	1000
TSSP1-5/8-12A	1 - 5/8" - 12	1.417	36.0	1.870	47.5	0.886	22.5	0.591	15.0	1.299	33.0	500
TSSP1-7/8-12A	1 - 7/8" - 12	1.417	36.0	2.126	54.0	0.886	22.5	0.591	15.0	1.299	33.0	500

THREADED PLUGS

R Series
NPT Threaded Square-Headed Plugs

LINE EXTENSION

Specifications:
- Material: High-Density Polyethylene or Glass-Filled Nylon - See Table
- Color: See Table



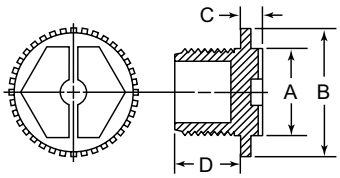
Features:
- Square head design allows the user to install or remove these by hand or with a wrench
- Used to protect NPT threads against contaminants and moisture
- Nylon is recommended when strength and abrasion resistance are desired
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Nylon is able to withstand higher temperatures than HDPE
- Temperature Range: -40°F - 320°F (-40°C - 160°C)

Item No.			A		B		Bulk Pack Qty.
Blue HDPE	Natural GFN	To Plug NPT Thread Size	in	mm	in	mm	
R1/8A	R1/8C	1/8" - 27	9/32	7.14	0.375	9.53	8500
R1/4A	R1/4C	1/4" - 18	11/32	8.73	0.437	11.11	9000
R3/8A	R3/8B	3/8" - 18	7/16	11.11	0.500	12.70	5000
R1/2A	R1/2D	1/2" - 14	9/16	14.28	0.562	14.29	3000
R3/4A	R3/4B	3/4" - 14	11/16	17.46	0.625	15.88	1900

Item No.			A		B		Bulk Pack Qty.
Blue HDPE	Natural GFN	To Plug NPT Thread Size	in	mm	in	mm	
R1A	R1B	1"-11 - 1/2	3/4	19.05	0.625	15.88	1000
R1-1/4A	R1-1/4C	1-1/4" - 11 - 1/2	15/16	23.81	0.625	15.88	500
R1-1/2A	R1-1/2C	1-1/2" - 11 - 1/2	1 - 1/8	28.57	0.625	15.88	500
R2A	• R2C	2"-11 - 1/2	1 - 1/4	31.75	0.625	15.88	500

PFP Series
NPT Threaded Plugs (O-Ring Optional)

Specifications:
- Material: High-Density Polyethylene
- Color: Black

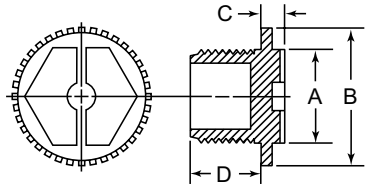


Features:
- Unique head design allows the user to apply or remove this plug by hand or with a 12 point socket head, screwdriver or wrench
- Used to protect NPT threaded ports
- Optional O-Ring gives this part a watertight seal for superior leakage protection

Item No.	Item No. w/ O-Ring	To Plug NPT Thread Size	A		B		C		D		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	
PFP1/8A	PFP1/8B	1/8"	0.348	8.84	0.560	14.22	0.250	6.35	0.250	6.35	5000
PFP1/4A	PFP1/4B	1/4"	0.489	12.42	0.740	18.80	0.310	7.87	0.310	7.87	5000
PFP3/8A	PFP3/8B	3/8"	0.562	14.27	0.850	21.59	0.320	8.13	0.350	8.89	5000
PFP1/2A	PFP1/2B	1/2"	0.705	17.91	1.040	26.42	0.320	8.13	0.500	12.70	3000
PFP3/4A	PFP3/4B	3/4"	0.987	25.07	1.310	33.27	0.320	8.13	0.630	16.00	1500
PFP1A	PFP1B	1"	1.130	28.70	1.530	38.86	0.320	8.13	0.630	16.00	1000

PFP Nylon Series
NPT Threaded Nylon Plugs (O-Ring Optional)

Specifications:
- Material: Nylon
- Color: Natural



Features:
- Unique head design allows the user to apply or remove this plug by hand or with a 12 point socket head, screwdriver or wrench
- Used to protect NPT threaded ports
- Optional O-Ring gives this part a watertight seal for superior leakage protection
- Recommended when strength and abrasion resistance are desired
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Nylon is able to withstand higher temperatures than HDPE
- Temperature Range: -40°F - 230°F (-40*C - 110°C)

Item No.	Item No. w/ O-Ring	To Plug NPT Thread Size	A		B		C		D		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	
PFP1/8C	PFP1/8D	1/8" NPT	0.348	8.84	0.560	14.22	0.250	6.35	0.250	6.35	5000
PFP1/4C	PFP1/4D	1/4" NPT	0.489	12.42	0.740	18.80	0.310	7.87	0.310	7.87	5000
PFP3/8C	PFP3/8D	3/8" NPT	0.562	14.27	0.850	21.59	0.320	8.13	0.350	8.89	5000
PFP1/2C	PFP1/2D	1/2" NPT	0.705	17.91	1.040	26.42	0.320	8.13	0.500	12.70	3000
PFP3/4C	PFP3/4D	3/4" NPT	0.987	25.07	1.310	33.27	0.320	8.13	0.630	16.00	1500
PFP1C	PFP1D	1" NPT	1.130	28.70	1.530	38.86	0.320	8.13	0.630	16.00	1000

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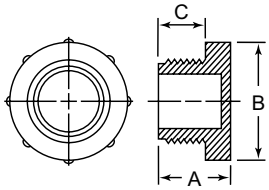
TP Metric & TPBSP Series
Metric & BSP Threaded Plugs

Specifications:
- Material: Low-Density Polyethylene
- Color: Red

Features:
- Series accommodates an extensive range of metric and BSP/Gas threaded sizes
- Knurled head for easy grip
- Secure fit for excellent protection against dirt, moisture and corrosion



Metric Thread

Item No.	To Plug Metric Thread Size	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
12011A	M8 x 1	0.562	14.27	0.484	12.29	0.374	9.50	5000
12012A	M10 x 1	0.574	14.58	0.602	15.29	0.409	10.39	5000
12013A	M12 x 1	0.657	16.69	0.728	18.49	0.421	10.69	5000
12017A	M12 x 1.5	0.641	16.28	0.657	16.69	0.342	8.69	5000
12018A	M14 x 1.5	0.677	17.20	0.728	18.49	0.374	9.50	5000
12019A	M16 x 1.5	0.677	17.20	0.866	22.00	0.492	12.50	3000
10458A	M18 x 1.5	0.720	18.29	0.960	24.38	0.539	13.69	4000
12020A	M20 x 1.5	0.716	18.19	1.035	26.29	0.551	14.00	3000
10128A	M22 x 1.5	0.720	18.29	1.110	28.19	0.539	13.69	3000
12021A	M24 x 1.5	0.728	18.49	1.232	31.29	0.543	13.79	2000
12022A	M25 x 1.5	0.728	18.49	1.232	31.30	0.551	14.00	2500
12023A	M26 x 1.5	0.736	18.69	1.287	32.69	0.543	13.79	2000
12030A	M52 x 1.5	0.846	21.50	2.508	63.70	0.610	15.50	500

BSP/Gas Thread

Item No.	To Plug BSP/GAS Thread Size	A		B		C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
462882A	1/8" x 28	0.472	12.00	0.630	16.00	0.610	15.50	5000
462848A	1/4" x 19	0.512	13.00	0.748	19.00	0.689	17.50	5000
462849A	3/8" x 19	0.591	15.00	0.866	22.00	0.689	17.50	5000
462850A	1/2" x 14	0.748	19.00	1.063	27.00	0.768	19.50	3000
462851A	3/4" x 14	0.945	24.00	1.260	32.00	0.768	19.50	2000
462852A	1" x 11	1.181	30.00	1.575	40.00	0.886	22.50	1000
462853A	1-1/4" x 11	1.417	36.00	1.969	50.00	0.886	22.50	400

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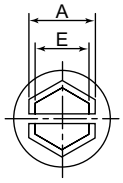
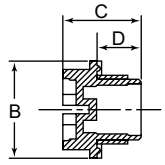
THREADED PLUGS

TSSP Series
Sealing Threaded Plugs For Metric/BSP Threads





Specifications:
- Material: Nylon
- Color: Yellow

Features:
- The double sealing ring design on the underside of the flange provides a positive seal
- Design includes five complete threads for a secure fit
- Can be manually applied or removed with a screwdriver, spanner, socket or allen key or with power tools
- Head designed not to trap liquid
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Temperature Range: -40°F - 320°F (-40°C - 160°C)
- See page 57 for UNF Threads

Metric Thread

Item No.	To Plug Metric Thread Size	A		B		C		D		E		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	
462836A	M8 x 1	0.276	7.0	0.492	12.5	0.610	15.5	0.315	8.0	0.157	4.0	5000
462837A	M10 x 1	0.354	9.0	0.571	14.5	0.650	16.5	0.354	9.0	0.236	6.0	5000
TSSPM10X1.5A	M10 x 1.5	0.354	9.0	0.571	14.5	0.650	16.5	0.354	9.0	0.236	6.0	500
TSSPM12X1A	M12 x 1	0.394	10.0	0.669	17.0	0.650	16.5	0.354	9.0	0.276	7.0	500
462838A	M12 x 1.5	0.394	10.0	0.669	17.0	0.650	16.5	0.354	9.0	0.276	7.0	5000
462839A	M14 x 1.5	0.512	13.0	0.748	19.0	0.689	17.5	0.394	10.0	0.394	10.0	5000
462840A	M16 x 1.5	0.591	15.0	0.878	22.3	0.689	17.5	0.366	9.3	0.472	12.0	5000
462841A	M18 x 1.5	0.669	17.0	0.945	24.0	0.689	17.5	0.394	10.0	0.551	14.0	3000
462842A	M20 x 1.5	0.748	19.0	1.024	26.0	0.689	17.5	0.394	10.0	0.630	16.0	3000
462843A	M22 x 1.5	0.827	21.0	1.102	28.0	0.689	17.5	0.394	10.0	0.709	18.0	3000
TSSPM24X1.5A	M24 x 1.5	0.945	24.0	1.181	30.0	0.689	17.5	0.394	10.0	0.827	21.0	500
TSSPM26X1.5A	M26 x 1.5	0.945	24.0	1.260	32.0	0.807	20.5	0.472	12.0	0.827	21.0	500
466977A	M27 x 1.5	0.945	24.0	1.299	33.0	0.807	20.5	0.472	12.0	0.827	21.0	500
466985A	M27 x 2	0.945	24.0	1.299	33.0	0.866	22	0.531	13.5	0.827	21.0	250
TSSPM28X1.5A	M28 x 1.5	0.945	24.0	1.339	34.0	0.807	20.5	0.472	12.0	0.827	21.0	500
TSSPM30X1.5A	M30 x 1.5	0.945	24.0	1.496	38.0	0.807	20.5	0.472	12.0	0.827	21.0	500
TSSPM30X2A	M30 x 2	0.945	24.0	1.496	38.0	0.866	22	0.531	13.5	0.827	21.0	250
TSSPM32X1.5A	M32 x 1.5	0.945	24.0	1.575	40.0	0.807	20.5	0.472	12.0	0.827	21.0	500
TSSPM33X2A	M33 x 2	0.945	24.0	1.575	40.0	0.866	22	0.531	13.5	0.827	21.0	250
TSSPM36X1.5A	M36 x 1.5	0.945	24.0	1.772	45.0	0.807	20.5	0.472	12.0	0.827	21.0	500
TSSPM36X2A	M36 x 2	0.945	24.0	1.772	45.0	0.866	22	0.531	13.5	0.827	21.0	250
TSSPM38X1.5A	M38 x 1.5	0.945	24.0	1.890	48.0	0.807	20.5	0.472	12.0	0.827	21.0	250
TSSPM42X2A	M42 x 2	1.181	30.0	1.969	50.0	0.866	22	0.531	13.5	1.063	27.0	250
TSSPM45X1.5A	M45 x 1.5	1.181	30.0	2.047	52.0	0.846	21.5	0.472	12.0	1.063	27.0	250
TSSPM45X2A	M45 x 2	1.181	30.0	1.969	50.0	0.866	22	0.531	13.5	1.063	27.0	250
TSSPM48X2A	M48 x 2	1.181	30.0	2.165	55.0	0.906	23	0.531	13.5	1.063	27.0	100
TSSPM52X1.5A	M52 x 1.5	1.181	30.0	2.362	60.0	0.866	22	0.472	12.0	1.063	27.0	250
TSSPM52X2A	M52 x 2	1.181	30.0	2.362	60.0	0.906	23	0.531	13.5	1.063	27.0	100

BSP/Gas Thread

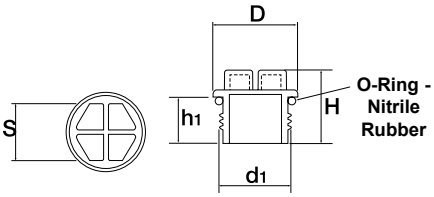
Item No.	To Plug BSP/GAS Thread Size	A		B		C		D		E		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	
462882A	1/8" x 28	0.472	12.00	0.630	16.00	0.610	15.50	0.315	8.00	0.354	9.00	5000
462848A	1/4" x 19	0.512	13.00	0.748	19.00	0.689	17.50	0.394	10.00	0.394	10.00	5000
462849A	3/8" x 19	0.591	15.00	0.866	22.00	0.689	17.50	0.394	10.00	0.472	12.00	5000
462850A	1/2" x 14	0.748	19.00	1.063	27.00	0.768	19.50	0.472	12.00	0.630	16.00	3000
462851A	3/4" x 14	0.945	24.00	1.260	32.00	0.768	19.50	0.472	12.00	0.827	21.00	2000
462852A	1" x 11	1.181	30.00	1.575	40.00	0.886	22.50	0.591	15.00	1.063	27.00	1000
462853A	1-1/4" x 11	1.417	36.00	1.969	50.00	0.886	22.50	0.591	15.00	1.299	33.00	400

See pages 64 and 65 for Application Wizards.

HDPE Metric Threaded O-Ring Plugs

Specifications:
- Material: High-Density Polyethylene
- Color: Yellow

Features:
- Can be applied or removed by spanner, screwdriver or socket, or by hand



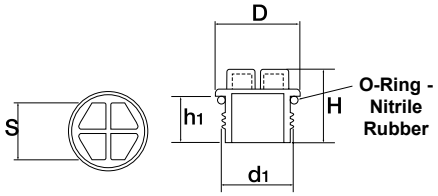
Item No.	To Plug Metric Thread Size d1	D mm	H mm	h1 mm	S mm	Bulk Pack Qty.
498659	M8 x 1	12.5	17.0	10.0	6.0	500
498660	M10 x 1	14.5	17.2	10.0	7.0	500
498661	M12 x 1	17.0	17.2	10.0	10.0	500
498662	M10 x 1.5	14.5	19.2	12.0	7.0	500
498663	M12 x 1.5	17.0	19.2	12.0	10.0	500
498664	M14 x 1.5	22.0	19.2	12.0	10.0	500
498540	M16 x 1.5	24.0	20.4	12.0	13.0	500
498541	M18 x 1.5	24.0	20.4	12.0	13.0	500
498542	M20 x 1.5	26.0	20.4	12.0	15.0	250
498665	M22 x 1.5	28.0	20.4	12.0	15.0	250
498543	M24 x 1.5	30.0	20.4	12.0	17.0	250
498544	M26 x 1.5	32.0	20.4	12.0	19.0	250
498546	M30 x 1.5	38.0	20.6	12.0	22.0	250
498547	M32 x 1.5	40.0	20.6	12.0	24.0	250
498666	M36 x 1.5	45.0	20.6	12.0	24.0	100
498667	M38 x 1.5	48.0	20.6	12.0	24.0	100
498668	M27 x 2.0	33.0	24.6	15.0	19.0	250
498548	M30 x 2.0	38.0	24.6	15.0	22.0	250
498549	M33 x 2.0	40.0	24.6	15.0	24.0	250
498550	M36 x 2.0	45.0	24.6	15.0	24.0	100
498669	M42 x 2.0	50.0	24.6	15.0	24.0	100
498551	M45 x 2.0	52.0	25.0	15.0	30.0	100
498670	M48 x 2.0	55.0	25.0	15.0	30.0	100
498671	M52 x 2.0	60.0	25.0	15.0	7.0	100

Nylon Metric Threaded O-Ring Plugs

NEW

Specifications:
- Material: Nylon
- Color: Orange

Features:
- Metric thread
- Can be applied or removed by spanner, screwdriver or socket, or by hand
- Nylon is recommended where higher abrasion and slightly higher temperatures are needed where a polyethylene plug will not work



Item No.	To Plug Metric Thread Size d1	D mm	H mm	h1 mm	S mm	Bulk Pack Qty.
900535	M8 x 1	12.5	17.0	10.0	6.0	500
900536	M10 x 1	14.5	17.2	10.0	7.0	500
900537	M12 x 1	17.0	17.2	10.0	10.0	500
900538	M10 x 1.5	14.5	19.2	12.0	7.0	500
900539	M12 x 1.5	17.0	19.2	12.0	10.0	500
900540	M14 x 1.5	22.0	19.2	12.0	10.0	500
900541	M16 x 1.5	24.0	20.4	12.0	13.0	500
900542	M18 x 1.5	24.0	20.4	12.0	13.0	500
900543	M20 x 1.5	26.0	20.4	12.0	15.0	250
900544	M22 x 1.5	28.0	20.4	12.0	15.0	250
900545	M24 x 1.5	30.0	20.4	12.0	17.0	250
900546	M26 x 1.5	32.0	20.4	12.0	19.0	250
900547	M30 x 1.5	38.0	20.6	12.0	22.0	250
900548	M32 x 1.5	40.0	20.6	12.0	24.0	250
900549	M36 x 1.5	45.0	20.6	12.0	24.0	100
900550	M38 x 1.5	48.0	20.6	12.0	24.0	100
900551	M27 x 2.0	33.0	24.6	15.0	19.0	250
900552	M30 x 2.0	38.0	24.6	15.0	22.0	250
900553	M33 x 2.0	40.0	24.6	15.0	24.0	250
900554	M36 x 2.0	45.0	24.6	15.0	24.0	100
900555	M42 x 2.0	50.0	24.6	15.0	24.0	100
900556	M45 x 2.0	52.0	25.0	15.0	30.0	100
900557	M48 x 2.0	55.0	25.0	15.0	30.0	100
900558	M52 x 2.0	60.0	25.0	15.0	7.0	100

PROPANE VALVE PRODUCT CAPS & THREADED PLUGS

PPC Series
Overfill Prevention Device Cylinder Valve Caps

LINE EXTENSION

PPC1A

PPC2A

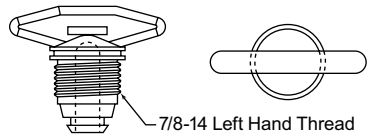
PPC3RC

Specifications:
- Material: See Table
- Color: See Table

Features:
- Protects threads from damage and contaminants during shipping and use
- Easy to apply
- PPC1A - dust cap and retaining strap with warning labels imprinted in English and Spanish
- PPC2A - dust cap designed with a tear feature and is tamper resistant
- PPC3RC is a protective cap with an internal ring and tear feature

Item No.	Material	Color	Product Usage	Bulk Pack Qty.
PPC1A	LDPE	Black	OPD Valve for Propane Cylinder	550
PPC2A	LLDPE	Blue	OPD Valve for Propane Cylinder	450
• PPC3RC	LLDPE	Blue	OPD Valve for Propane Cylinder	900

K Series
Overfill Prevention Device Cylinder Valve Plugs



Specifications:
- Material: High-Density Polyethylene
- Color: Red

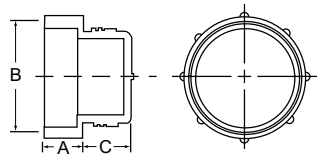
Features:
- Protects threads from damage and contaminants during shipping and use
- Easy to apply
- Flat strap attachment device

Item No.	Description	Product Usage	Bulk Pack Qty.
K737AC	100 Per Bag with Tag	OPD Valve for Propane Cylinder	1000

DP Series
UNJ/UNJS Threaded Plugs

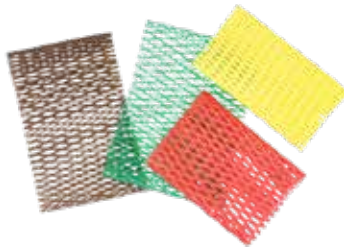
Specifications:
- Material: High-Density Polyethylene
- Color: Red

Features:
- Protects threaded components from dust, moisture and damage during production, storage and shipment
- Designed with an easy to grip head for ease of hand installation
- Threads meet UNJ and UNJS specifications



Item No.	To Plug UNJ/UNJS Thread Size	Tubing Size	A		B		C		Bulk Pack Qty.
		in	in	mm	in	mm	in	mm	
DP3A	3/8"–28	3/16	0.250	6.35	0.440	11.18	0.280	7.11	5000
DP4A	7/16"–24	1/4	0.310	7.87	0.560	14.22	0.300	7.62	5000
DP5A	1/2"–24	5/16	0.310	7.87	0.620	15.75	0.300	7.62	5000
DP6A	9/16"–20	3/8	0.310	7.87	0.690	17.53	0.320	8.13	5000
DP8A	23/32"–20	1/2	0.310	7.87	0.880	22.35	0.320	8.13	5000
DP10A	27/32"–18	5/8	0.310	7.87	1.000	25.40	0.400	10.16	2500
DP12A	1"–16	3/4	0.310	7.87	1.120	28.45	0.420	10.67	2500
DP14A	1-1/8"–16	7/8	0.250	6.35	1.250	31.75	0.450	11.43	2500
DP16A	1-1/4"–14	1	0.250	6.35	1.380	35.05	0.450	11.43	2000
DP20A	1-33/64"–14	1-1/4	0.250	6.35	1.620	41.15	0.450	11.43	1000
DP21SA	1-37/64"–14	1-1/4	0.250	6.35	1.750	44.45	0.460	11.68	1000
DP24A	1-25/32"–14	1-1/2	0.250	6.35	2.000	50.80	0.550	13.97	1000
DP25SA	1-27/32"–14	1-1/2	0.250	6.35	2.120	53.85	0.550	13.97	1000

FNC Series
Flexible Protective Netting (Tector-Net)

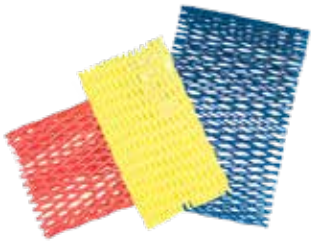


Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

Features:
- Easily applied and removed
- Reduces labor cost, inventory cost, damage claims and returns
- Does not trap or retain moisture
- Stretches and wraps snugly around virtually any form

Item No.	Color	Ø Flexible Range		Roll Length		Pack Qty.
		in	mm	Ft	M	
FNC00250037S	Red	0.250 - 0.375	6.35 - 9.53	820	249	1
FNC00250037L	Red	0.250 - 0.375	6.35 - 9.53	1500	457	1
FNC00250050S	Orange	0.375 - 0.500	6.35 - 12.70	820	249	1
FNC00250050L	Orange	0.375 - 0.500	6.35 - 12.70	1500	457	1
FNC00500100S	Blue	0.500 - 1.000	12.70 - 25.40	820	249	1
FNC00500100L	Blue	0.500 - 1.000	12.70 - 25.40	1500	457	1
FNC01000200S	Yellow	1.000 - 2.000	25.40 - 50.80	164	49	1
FNC01000200L	Yellow	1.000 - 2.000	25.40 - 50.80	1500	457	1
FNC02000400S	Red	2.000 - 4.000	50.80 - 101.60	164	49	1
FNC02000400L	Red	2.000 - 4.000	50.80 - 101.60	1500	457	1
FNC04000600S	Green	4.000 - 6.000	101.60 - 152.40	164	49	1
FNC06000800S	Brown	6.000 - 8.000	152.40 - 203.20	164	49	1
FNC0800SRA	Natural	8.000 - 10.000	203.20 - 254.00	164	49	1
FNC1000SRA	Green	10.000 - 12.000	254.00 - 304.80	82	24	1

FNH Series
Heavy Gauge Protective Netting



Specifications:
- Material: Low-Density Polyethylene
- Color: See Table

Features:
- Easily applied and removed
- Reduces labor cost, inventory cost, damage claims and returns
- Does not trap or retain moisture
- Stretches and wraps snugly around virtually any form
- Has heavier gauge material for applications that need a more durable protection

Item No.	Color	Ø Flexible Range		Roll Length		Pack Qty.
		in	mm	Ft	M	
FNH0050LRA	Blue	0.500 - 1.000	12.70 - 25.40	820	249	1
FNH0125A	Yellow	1.250 - 1.625	31.75 - 41.28	82	24	1
FNH0200A	Red	2.000 - 2.500	50.80 - 63.50	82	24	1
FNH0250A	Green	2.500 - 3.000	63.50 - 76.20	82	24	1
FNH0300A	Green	3.000 - 4.000	76.20 - 101.60	82	24	1
FNH0400A	Yellow	4.000 - 4.500	101.60 - 114.30	82	24	1
FNH0475A	Red	4.750 - 5.500	120.65 - 139.70	82	24	1
FNH0550A	Blue	5.500 - 6.750	139.70 - 171.45	82	24	1
FNH0675A	Green	6.750 - 8.000	171.45 - 203.20	82	24	1

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APPLICATION WIZARDS

Tube & Hydraulic Fittings

Caps

Non-Threaded Caps Choices

Numbered Series
Pages 24 - 26

E Series
Page 33

TS Series
Page 34

DM Series
Pages 29 - 30

Threaded Cap Choices

TCUNF Series
Page 39

G Series
Page 39

Your Application			Non-Threaded Cap Choices				Threaded Cap Choices	
Thread Size	Tubing OD (in)	Fitting Size	Numbered Series	E Series	TS Series	DM Series	TCUNF Series	G Series
5/16 - 24	1/8	–2	008A	—	—	DM0304-1/2A	—	—
3/8 - 24	3/16	–3	011A	E3/8A	TS3A	DM0360-1/2A	10251A	G1A
7/16 - 20	1/4	–4	013A	E7/16A	TS4A	DM0437-1/2A	10332A	G2A
1/2 - 20	5/16	–5	017A	E1/2A	TS5A	DM0490-1/2A	10528A	G5A
9/16 - 18	3/8	–6	020A	E9/16A	TS6A	DM0544-1/2A	11041A	G8A
5/8 - 18	3/8	—	021A	E5/8A	TS10348A	DM0600-1A	10653A	G11A
11/16 - 16	—	–7	026A	E11/16B	TS7A	DM0665-1A	—	—
3/4 - 16	1/2	–8	028A	E3/4A	TS8A	DM0725-1A	12847A	G14A
13/16 - 16	—	–9	030A	E13/16A	TS9A	DM0750-1A	12825A	—
7/8 - 14	5/8	–10	035A	E7/8A	TS10A	DM0843-1A	11089A	G17A
1 - 14	—	–11	041A	E1A	TS11A	DM0985-1A	12826A	G21A
1 - 1/16 - 12	3/4	–12	042A	E1-1/16A	TS12A	DM1000-1A	10685A	G22A
1 - 3/16 - 12	7/8	–13	1040A	E1-3/16B	TS13A	DM1125-1A	10163A	G25A
1 - 5/16 - 12	1	–16	049A	E1-5/16B	TS16A	DM1250-1A	10151A	G27A
1 - 7/16 - 12	—	–17	053A	E1-7/16B	TS17A	DM1375-1A	10185A	—
1 - 5/8 - 12	1-1/4	–20	056A	E1-5/8B	TS20A	DM1593-1A	11053A	G30A
1 - 11/16 - 12	—	–21	056A	E1-11/16B	TS21A	DM1625-1A	—	—
1 - 7/8 - 12	1-1/2	–24	062A	E1-7/8B	TS24A	DM1875-1A	11804A	—
2 - 1/4 - 12	1-3/4	–28	072A	—	—	DM2156-1A	—	—

Plugs

Non-Threaded Plug Choices

Numbered Series
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CP Series
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Threaded Plug Choices

TPUNF Series
Page 55

BL Series
Page 54

BLM Series
Page 55

BLWF Series
Page 57

Your Application			Non-Threaded Plug Choices		Threaded Plug Choices			
Thread Size	Tubing OD (in)	Fitting Size	Numbered Series	CP Series	TPUNF Series	BL Series	BLM Series	BLWF Series
5/16 - 24	1/8	–2	005A	CP5A	10709A	—	—	—
3/8 - 24	3/16	–3	007A	CP7A	10692A	—	—	—
7/16 - 20	1/4	–4	008A	CP8A	10763A	BL3A	BLM3B	BLWF100A
1/2 - 20	5/16	–5	010A	CP10A	10696A	B4A	BLM4B	BLWF105A
9/16 - 18	3/8	–6	013A	CP14A	10668A	BL5A	BLM5B	BLWF110A
5/8 - 18	3/8	—	014A	CP15B	10940A	B6A	BLM6B	—
3/4 - 16	1/2	–8	021A	CP19A	10575A	BL7A	BLM7B	BLWF115A
7/8 - 14	5/8	–10	026A	CP24A	10326A	BL8A	BLM8B	BLWF120A
1 - 14	—	—	030A	CP31A	12785A	B9A	BLM9B	—
1 - 1/16 - 12	3/4	–12	035A	CP35A	10460A	BL10A	BLM10B	BLWF125A
1 - 3/16 - 12	7/8	–13	041A	CP40A	11506A	BL11A	BLM11B	BLWF130A
1 - 5/16 - 12	1	–16	044A	CP44A	10671A	BL12A	BLM12B	BLWF135A
1 - 5/8 - 12	1 - 1/4	–20	052A	CP55A	11752A	BL13A	BLM13B	BLWF140A
2 - 1/4 - 12	1 - 3/4	–28	066A	CP61A	—	—	—	—

Threaded NPT Fittings

Caps

Numbered Series
Pages 24 - 26

Y Series
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DM Series
Pages 29 - 30

ECS Series
Page 33

Your Application				
To Cap NPT Thread Size	Numbered Series	Y Series	DM Series	ECS Series
1/8	011A	Y1/8A	DM0375-1/2A	ECS0125A
1/4	018A	Y1/4A	DM0500-1/2A	ECS0250A
3/8	022A	Y3/8A	DM0625-1/2A	ECS0375A
1/2	028A	Y1/2A	DM0843-1A	ECS0500A
3/4	040A	Y3/4A	DM1000-1A	ECS0750A
1	045A	Y1A	DM1250-1A	ECS1000A
1 - 1/4	056A	Y1 - 1/4A	DM1875-1A	ECS1250A
1 - 1/2	060A	Y1 - 1/2A	DM2375-1A	ECS1500A
2	071A	Y2A	DM2750-1A	ECS2000A

Plugs

Numbered Series
Pages 24 - 26

CP Series
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R Series
Page 58

PFP Series
Page 58

Your Application				
To Plug NPT Thread Size	Numbered Series	CP Series	R Series	PFP Series
1/8	008A	CP8A	R1/8A	PFP1/8A
1/4	011A	CP11A	R1/4A	PFP1/4A
3/8	017A	—	R3/8A	PFP3/8A
1/2	023A	CP23A	R1/2A	PFP1/2A
3/4	035A	CP35A	R3/4A	PFP3/4A
1	042A	CP44A	R1A	PFP1A
1 - 1/4	054A	CP55A	R1 - 1/4A	—
1 - 1/2	057A	CP57A	R1 - 1/2A	—
2	066A	—	R2A	—

Metric Threads

Caps

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Your Application Thread Size	Numbered Series	DM Series	A & AR Series	TC Metric Series
M4	004A	DM0148-1/2A	A5/32W/RA	—
M5	005A	DM0187-1/2A	—	—
M6	006A	DM0224-1/2A	—	—
M8 x 1	009A	DM0304-1/2A	A5/16W/RA	12100A
M10 x 1	012A	DM0375-1/2A	AR100A	12101A
M12 x 1	014A	DM0460-1/2A	A1/2BA	12102A
M12 x 1.5	1015A	DM0460-1/2A	A1/2BA	12103A
M14 x 1.5	018A	DM0531-1/2A	—	12104A
M16 x 1.5	022A	DM0600-1A	A5/8W/RA	12105A
M18 x 1.5	027A	DM0687-1A	A11/16W/RA	12106A
M20 x 1.5	030A	DM0750-1A	AR125A	12107A
M22 x 1.5	035A	DM0843-1A	AR130A	12108A
M24 x 1.5	040A	DM0937-1A	A15/16A	12109A
M25 x 1.5	041A	—	A63/64A	12110A
M26 x 1.5	041A	DM1000-1A	A1W/RA	12111A
M27	042A	DM1062-1A	A1-1/16W/RA	—
M28 x 1.5	044A	DM1090-1A	—	12967A
M30 x 2	1050A	DM1125-1A	—	12122A
M35	051A	DM1375-1A	A1-3/8A	—
M39	055A	DM1500-1A	A1-1/2A	—
M42 x 2	056A	DM1625-1A	A1-5/8A	12124A
M45	058A	DM1750-1A	A1-3/4A	—
M48	064A	DM1875-1A	A1-7/8A	—
M52 x 2	1085A	DM2125-1A	—	12126A
M58	075A	DM2250-1A	A2-1/4A	—

Plugs

Numbered Series Pages 24 - 26 | BP Series Pages 41 | TP Metric Series Page 59 | TSSP Series Page 57 | SF Series Page 51

Your Application Thread Size	Numbered Series	BP Series	TP Metric	TSSP Series	SF Series
M6	002A	BP1012A	—	—	—
M8 x 1	005A	BP1018A	12011A	462836A	—
M10 x 1	007A	BP1026A	12012A	462837A	10530A
M12 x 1	010A	BP1038A	12013A	—	12363A
M12 x 1.5	009A	BP1034A	12017A	462838A	12363A
M14 x 1.5	012A	BP1044A	12018A	462839A	12363A
M16 x 1.5	015A	BP1056A	12019A	462840A	12364A
M18 x 1.5	018A	BP1060A	10458A	462841A	10314B
M20 x 1.5	022A	BP1068A	12020A	462842A	12365A
M22 x 1.5	026A	BP1074A	10128A	462843A	12366A
M24 x 1.5	028A	BP1086A	12021A	—	12621A
M26 x 1.5	030A	BP1092A	12023A	—	12367A
M27	035A	BP1100A	—	—	—
M28	040A	BP1102A	—	—	12368A
M30	041A	BP1106A	—	—	—
M32	044A	BP1112A	—	—	12369A
M33	044A	BP1114A	—	—	—
M36 x 2	045A	BP1116A	—	—	12622A
M38	048A	BP1126A	—	—	—
M42 x 2	053A	BP1134A	—	—	12598A
M52 x 2	1080A	BP1142A	—	—	—

Caps

Non-Threaded Studs

Numbered Series Pages 24 - 26 | A Series Page 28 | DM Series 29 - 30

To Cap OD in	dec.	mm	Numbered Series	A Series	DM Series
1/8	0.125	3.17	002A	A1/8W/RA	DM0125-1/2A
3/16	0.187	4.75	005A	A3/16W/RA	DM0187-1/2A
1/4	0.250	6.35	007A	A1/4W/RA	DM0250-1/2A
5/16	0.312	7.92	009A	A5/16W/RA	DM0313-1/2A
3/8	0.375	9.53	011A	A3/8W/RA	DM0375-1/2A
7/16	0.437	11.10	014A	A7/16W/RA	DM0437-1/2A
1/2	0.500	12.70	1020A	A1/2W/RA	DM0500-1A
9/16	0.562	14.27	020A	A9/16W/RA	DM0562-1A
5/8	0.625	15.88	022A	A5/8W/RA	DM0625-1A
11/16	0.687	17.45	026A	A11/16W/RA	DM0687-1A
3/4	0.750	19.05	028A	A3/4W/RA	DM0750-1A
13/16	0.812	20.62	031A	A13/16W/RA	DM0812-1A
7/8	0.875	22.23	039A	A7/8W/RA	DM0875-1A
15/16	0.937	23.80	040A	A15/16A	DM0937-1A
1	1.000	25.40	041A	A1W/RA	DM1000-1A
1 - 1/16	1.062	26.97	042A	A1-1/16W/RA	DM1062-1A
1 - 1/8	1.125	28.58	1040A	A1-1/8A	DM1125-1A
1 - 3/16	1.187	30.15	045A	A1-3/16W/RA	DM1187-1A
1 - 1/4	1.250	31.75	048A	A1-1/4A	DM1250-1A
1 - 5/16	1.312	33.32	051A	A1-5/16W/RA	DM1312-1A
1 - 3/8	1.375	34.93	052A	A1-3/8A	DM1375-1A
1 - 7/16	1.437	36.50	053A	A1-7/16A	DM1437-1A
1 - 1/2	1.500	38.10	055A	A1-1/2A	DM1500-1A
1 - 9/16	1.562	39.67	055A	A1-9/16A	—
1 - 5/8	1.625	41.28	056A	A1-5/8A	DM1625-1A
1 - 11/16	1.687	42.85	057A	A1-11/16A	DM1687-1A
1 - 3/4	1.750	44.45	059A	A1-3/4A	DM1750-1A
1 - 13/16	1.812	46.02	060A	—	DM1812-1A
1 - 7/8	1.875	47.63	062A	A1-7/8A	DM1875-1A
1 - 15/16	1.937	49.20	063A	—	DM1937-1A
2	2.000	50.80	065A	A2A	DM2000-1A

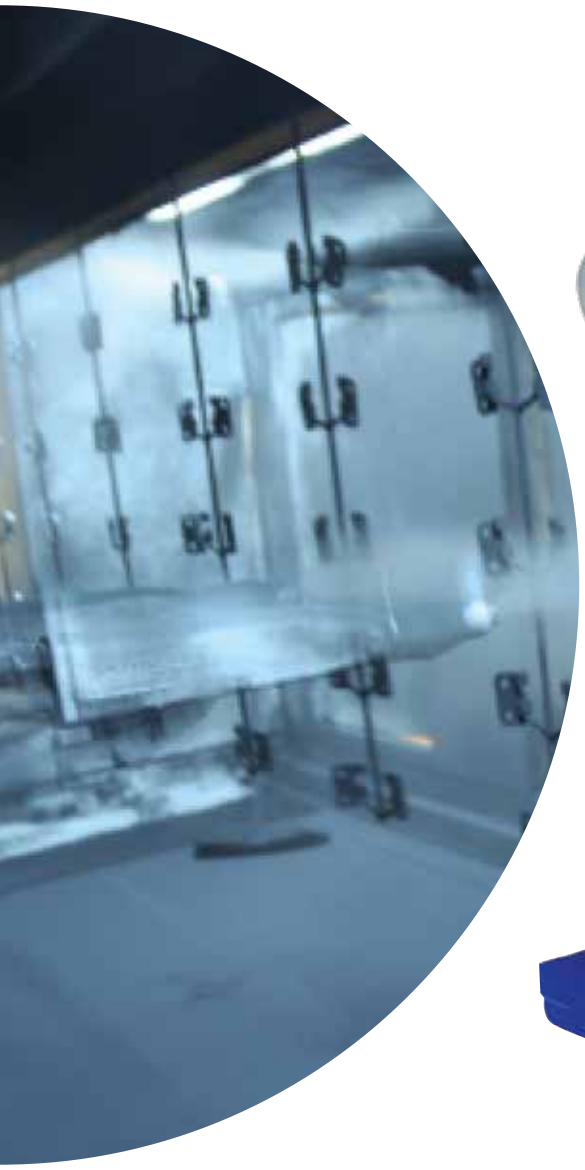
Plugs

Non-Threaded Holes

Numbered Series Pages 24 - 26 | FT Series Page 42 | CP Series Page 43

To Plug ID in	dec.	mm	Numbered Series	FT Series	CP Series
1/8	0.125	3.17	001A	10874A	—
3/16	0.187	4.75	1000A	12665A	—
1/4	0.250	6.35	003A	12667A	CP4A
5/16	0.312	7.92	006A	12668A	CP6A
3/8	0.375	9.53	008A	12670A	CP8A
7/16	0.437	11.10	010A	12671A	CP10A
1/2	0.500	12.70	012A	12673A	CP12A
9/16	0.562	14.27	014A	12675A	CP14A
5/8	0.625	15.88	017A	12677A	CP16A
11/16	0.687	17.45	020A	12679A	CP19A
3/4	0.750	19.05	023A	12680A	CP23A
13/16	0.812	20.62	026A	12683A	CP24A
7/8	0.875	22.23	028A	12684A	CP29A
15/16	0.937	23.80	030A	12686A	CP31A
1	1.000	25.40	035A	12688A	CP35A
1 - 1/16	1.062	26.97	040A	12689A	CP37A
1 - 1/8	1.125	28.58	041A	12691A	CP40A
1 - 3/16	1.187	30.15	042A	12692A	CP42A
1 - 1/4	1.250	31.75	044A	—	CP44A
1 - 5/16	1.312	33.32	045A	—	CP46A
1 - 3/8	1.375	34.93	1055A	—	CP49A
1 - 7/16	1.437	36.50	048A	—	CP49A
1 - 1/2	1.500	38.10	051A	—	CP51A
1 - 9/16	1.562	39.67	052A	12693A	CP55A
1 - 5/8	1.625	41.28	055A	—	CP56A
1 - 11/16	1.687	42.85	056A	—	CP56A
1 - 3/4	1.750	44.45	1065A	—	CP59A
1 - 13/16	1.812	46.02	057A	12694A	CP59A
1 - 7/8	1.875	47.63	1070A	—	CP57A
1 - 15/16	1.937	49.20	1075A	—	CP57A
2	2.000	50.80	1080A	—	—

HIGH TEMPERATURE MASKING



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HIGH TEMPERATURE TUBING 73-74

HIGH TEMPERATURE PLUGS 75-82

MASKING TAPES 82-83

MASKING DISCS 84

MASKING HOOKS 85

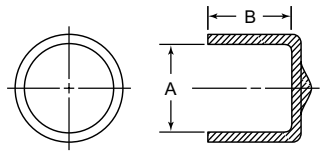
MASKING MATERIAL OPTIONS 86

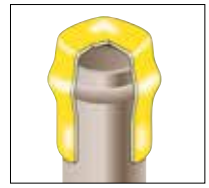
APPLICATION WIZARDS 87-88

HIGH TEMPERATURE MASKING

HIGH TEMPERATURE CAPS

DM (HT) Series
High Temperature Vinyl Caps





Specifications:

- Material: High Temperature Soft Vinyl 425°F (218°C)
- Hardness: Durameter of 85 +/–2
- Color: Yellow
- For lower temperature Black Vinyl Caps & Plugs, see pages 29 - 30

Features:

- Excellent chemical resistance
- Economical solution for one-time uses
- Applications: Powder Coating, E-Coating, Plating and General Paint Lines

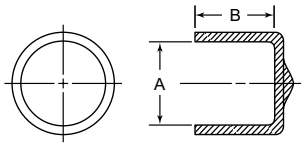
See pages 87 and 88 for Application Wizards.

A = To Fit		Item No. by Length of Cap (B Dimension)			Bulk Pack Qty.		
in	mm	1/2" (12.70 mm)	1" (24.4 mm)	1-1/2" (38.1 mm)	1/2"	1"	1-1/2"
0.078	2.0	DM0080-1/2B	DM0080-1B	—	5000	5000	—
0.094	2.4	DM0093-1/2C	DM0093-1B	—	5000	5000	—
0.109	2.8	DM0110-1/2C	DM0110-1C	—	5000	5000	—
0.125	3.2	DM0125-1/2D	DM0125-1D	—	5000	5000	—
0.141	3.6	DM0140-1/2D	DM0140-1C	DM0140-1-1/2B	5000	5000	5000
0.148	3.8	DM0148-1/2B	DM0148-1B	DM0148-1-1/2B	5000	5000	5000
0.156	4.0	DM0156-1/2E	DM0156-1C	DM0156-1-1/2B	5000	5000	5000
0.172	4.4	DM0172-1/2D	DM0172-1C	DM0172-1-1/2B	5000	5000	5000
0.180	4.6	DM0180-1/2B	DM0180-1C	DM0180-1-1/2B	5000	5000	5000
0.187	4.8	DM0187-1/2C	DM0187-1E	DM0187-1-1/2B	5000	5000	5000
0.203	5.2	DM0203-1/2C	DM0203-1B	DM0203-1-1/2B	5000	5000	5000
0.207	5.3	DM0207-1/2G	DM0207-1B	DM0207-1-1/2C	5000	5000	5000
0.218	5.5	DM0218-1/2B	DM0218-1B	DM0218-1-1/2B	5000	5000	5000
0.224	5.7	DM0224-1/2B	DM0224-1B	DM0224-1-1/2B	5000	5000	5000
0.230	5.8	DM0230-1/2B	DM0230-1C	DM0230-1-1/2B	5000	7500	5000
0.234	6.0	DM0234-1/2D	DM0234-1D	DM0234-1-1/2C	5000	5000	3000
0.240	6.1	DM0240-1/2E	DM0240-1C	DM0240-1-1/2C	5000	5000	5000
0.250	6.4	DM0250-1/2E	DM0250-1D	DM0250-1-1/2B	5000	5000	5000
0.281	7.1	DM0281-1/2D	DM0281-1C	DM0281-1-1/2C	5000	5000	5000
0.290	7.4	DM0290-1/2B	DM0290-1B	DM0290-1-1/2B	5000	5000	5000
0.304	7.7	DM0304-1/2B	DM0304-1C	DM0304-1-1/2B	5000	5000	2500
0.313	7.9	DM0313-1/2E	DM0313-1F	DM0313-1-1/2C	5000	5000	4000
0.343	8.7	DM0343-1/2C	DM0343-1C	DM0343-1-1/2B	5000	5000	4000
0.360	9.1	DM0360-1/2B	DM0360-1C	DM0360-1-1/2B	5000	5000	2500
0.375	9.5	DM0375-1/2D	DM0375-1F	DM0375-1-1/2D	5000	5000	2500
0.406	10.3	DM0406-1/2C	DM0406-1E	DM0406-1-1/2E	5000	5000	5000
0.437	11.1	DM0437-1/2J	DM0437-1E	DM0437-1-1/2E	5000	5000	4000
0.460	11.7	DM0460-1/2B	DM0460-1B	DM0460-1-1/2B	5000	3000	1500
0.470	11.9	DM0470-1/2C	DM0470-1D	DM0470-1-1/2E	5000	5000	3000
0.490	12.5	DM0490-1/2B	DM0490-1B	DM0490-1-1/2B	5000	3000	1500
0.500	12.7	DM0500-1/2F	DM0500-1E	DM0500-1-1/2F	5000	5000	2500
0.523	13.3	DM0523-1/2B	DM0523-1B	DM0523-1-1/2B	5000	2500	2500
0.531	13.5	DM0531-1/2D	DM0531-1C	DM0531-1-1/2C	5000	5000	2500
0.544	13.8	DM0544-1/2B	DM0544-1C	DM0544-1-1/2C	5000	5000	2500
0.562	14.3	DM0562-1/2F	DM0562-1D	DM0562-1-1/2E	5000	2500	3000
0.587	14.9	DM0587-1/2B	DM0587-1B	DM0587-1-1/2B	5000	2500	1200
0.600	15.2	DM0600-1/2B	DM0600-1B	DM0600-1-1/2B	5000	2000	1200
0.625	15.9	DM0625-1/2E	DM0625-1F	DM0625-1-1/2E	5000	2500	1250
0.640	16.3	DM0640-1/2B	DM0640-1B	DM0640-1-1/2B	5000	5000	2500
0.665	16.9	DM0665-1/2B	DM0665-1B	DM0665-1-1/2B	5000	2500	2500
0.687	17.5	DM0687-1/2D	DM0687-1E	DM0687-1-1/2B	5000	2500	1500
0.725	18.4	DM0725-1/2B	DM0725-1B	DM0725-1-1/2B	5000	2500	1000
0.750	19.1	DM0750-1/2F	DM0750-1F	DM0750-1-1/2D	5000	2500	500
0.812	20.6	DM0812-1/2E	DM0812-1D	DM0812-1-1/2D	2500	2500	1000
0.843	21.4	DM0843-1/2B	DM0843-1B	DM0843-1-1/2B	5000	2500	1200
0.875	22.2	DM0875-1/2D	DM0875-1E	DM0875-1-1/2B	5000	2500	1250
0.937	23.8	DM0937-1/2C	DM0937-1J	DM0937-1-1/2C	2500	2500	1000
0.985	25.0	DM0985-1/2B	DM0985-1B	DM0985-1-1/2B	2500	1500	1250
1.000	25.4	DM1000-1/2D	DM1000-1E	DM1000-1-1/2F	2500	2000	1250
1.062	27.0	DM1062-1/2D	DM1062-1E	DM1062-1-1/2B	3000	1500	1250
1.090	27.7	DM1090-1/2B	DM1090-1B	DM1090-1-1/2B	2000	1000	500
1.125	28.6	DM1125-1/2B	DM1125-1D	DM1125-1-1/2C	1000	1000	500
1.187	30.2	DM1187-1/2B	DM1187-1B	DM1187-1-1/2B	2500	1000	1000

(Continued on next page)

HIGH TEMPERATURE CAPS

DM (HT) Series (Continued)
High Temperature Vinyl Caps



See pages 87 and 88 for Application Wizards.

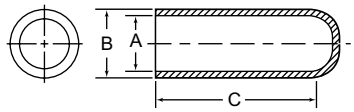
A = To Fit		Item No. by Length of Cap (B Dimension)			Bulk Pack Qty.		
in	mm	1/2" (12.70 mm)	1" (24.4 mm)	1-1/2" (38.1 mm)	1/2"	1"	1-1/2"
1.250	31.8	DM1250-1/2C	DM1250-1D	DM1250-1-1/2C	2500	1000	700
1.312	33.3	DM1312-1/2B	DM1312-1B	DM1312-1-1/2B	2000	1000	500
1.375	34.9	DM1375-1/2B	DM1375-1D	DM1375-1-1/2E	2000	1000	650
1.437	36.5	DM1437-1/2B	DM1437-1B	DM1437-1-1/2B	1000	1000	600
1.500	38.1	DM1500-1/2C	DM1500-1E	DM1500-1-1/2C	1000	1000	600
1.593	40.5	DM1593-1/2B	DM1593-1B	DM1593-1-1/2B	1700	1000	500
1.625	41.3	DM1625-1/2D	DM1625-1H	DM1625-1-1/2B	500	750	500
1.687	42.9	DM1687-1/2B	DM1687-1B	DM1687-1-1/2B	1000	500	400
1.750	44.5	DM1750-1/2C	DM1750-1D	DM1750-1-1/2E	1000	500	500
1.812	46.0	DM1812-1/2B	DM1812-1B	DM1812-1-1/2B	1000	500	400
1.875	47.6	DM1875-1/2C	DM1875-1D	DM1875-1-1/2F	700	625	400
1.937	49.2	DM1937-1/2B	DM1937-1B	DM1937-1-1/2B	1000	550	400
2.000	50.8	DM2000-1/2C	DM2000-1E	DM2000-1-1/2E	1000	550	400
2.125	54.0	DM2125-1/2B	DM2125-1B	DM2125-1-1/2B	500	400	300
2.156	54.8	DM2156-1/2B	DM2156-1B	DM2156-1-1/2B	1000	550	250
2.250	57.2	DM2250-1/2B	DM2250-1C	DM2250-1-1/2B	250	500	300
2.375	60.3	DM2375-1/2B	DM2375-1C	DM2375-1-1/2C	500	350	250
2.460	62.5	DM2460-1/2B	DM2460-1B	DM2460-1-1/2B	1000	350	200
2.500	63.5	DM2500-1/2C	DM2500-1B	DM2500-1-1/2B	500	300	200
2.625	66.7	DM2625-1/2B	DM2625-1B	DM2625-1-1/2D	500	250	250
2.687	68.3	DM2687-1/2B	DM2687-1B	DM2687-1-1/2B	400	250	200
2.750	69.9	DM2750-1/2B	DM2750-1B	DM2750-1-1/2B	500	250	250
2.875	73.0	DM2875-1/2B	DM2875-1B	DM2875-1-1/2B	500	250	200
3.000	76.2	DM3000-1/2B	DM3000-1D	DM3000-1-1/2B	500	300	200
1.812	46.0	DM1812-1/2B	DM1812-1B	DM1812-1-1/2B	1000	500	400
1.875	47.6	DM1875-1/2C	DM1875-1D	DM1875-1-1/2F	700	625	400
1.937	49.2	DM1937-1/2B	DM1937-1B	DM1937-1-1/2B	1000	550	400
2.000	50.8	DM2000-1/2C	DM2000-1E	DM2000-1-1/2E	1000	550	400
2.125	54.0	DM2125-1/2B	DM2125-1B	DM2125-1-1/2B	500	400	300
2.156	54.8	DM2156-1/2B	DM2156-1B	DM2156-1-1/2B	1000	550	250
2.250	57.2	DM2250-1/2B	DM2250-1C	DM2250-1-1/2B	250	500	300
2.375	60.3	DM2375-1/2B	DM2375-1C	DM2375-1-1/2C	500	350	250
2.460	62.5	DM2460-1/2B	DM2460-1B	DM2460-1-1/2B	1000	350	200
2.500	63.5	DM2500-1/2C	DM2500-1B	DM2500-1-1/2B	500	300	200
2.625	66.7	DM2625-1/2B	DM2625-1B	DM2625-1-1/2D	500	250	250
2.687	68.3	DM2687-1/2B	DM2687-1B	DM2687-1-1/2B	400	250	200
2.750	69.9	DM2750-1/2B	DM2750-1B	DM2750-1-1/2B	500	250	250
2.875	73.0	DM2875-1/2B	DM2875-1B	DM2875-1-1/2B	500	250	200
3.000	76.2	DM3000-1/2B	DM3000-1D	DM3000-1-1/2B	500	300	200
3.125	79.4	—	DM3125-1B	DM3125-1-1/2B	—	250	150
3.250	82.6	—	DM3250-1B	DM3250-1-1/2B	—	100	100
3.375	85.7	—	DM3375-1B	DM3375-1-1/2B	—	200	150
3.500	88.9	—	DM3500-1B	DM3500-1-1/2B	—	175	100
3.625	92.1	—	DM3625-1B	DM3625-1-1/2B	—	150	100
3.750	95.3	—	DM3750-1B	DM3750-1-1/2B	—	100	100
3.825	97.2	—	DM3825-1C	DM3825-1-1/2B	—	150	100
3.875	98.4	—	DM3875-1B	DM3875-1-1/2B	—	100	100
4.000	101.6	—	DM4000-1B	DM4000-1-1/2B	—	150	100
4.125	104.8	—	DM4125-1B	DM4125-1-1/2B	—	100	100
4.187	106.3	—	DM4187-1B	DM4187-1-1/2B	—	100	100
4.250	108.0	—	DM4250-1B	DM4250-1-1/2B	—	150	100
4.375	111.1	—	DM4375-1B	DM4375-1-1/2B	—	100	50
4.500	114.3	—	DM4500-1B	DM4500-1-1/2B	—	150	75
4.750	120.7	—	DM4750-1B	DM4750-1-1/2B	—	85	100
5.000	127.0	—	DM5000-1C	DM5000-1-1/2B	—	125	50
5.187	131.7	—	DM5187-1B	DM5187-1-1/2B	—	50	50
5.375	136.5	—	DM5375-1B	DM5375-1-1/2B	—	100	50
5.500	139.7	—	DM5500-1B	DM5500-1-1/2B	—	50	50
5.750	146.1	—	DM5750-1B	DM5750-1-1/2B	—	50	50
6.000	152.4	—	DM6000-1B	DM6000-1-1/2B	—	50	50
6.250	158.8	—	DM6250-1B	DM6250-1-1/2B	—	50	50
6.500	165.1	—	DM6500-1B	DM6500-1-1/2B	—	50	50
6.750	171.5	—	DM6750-1B	DM6750-1-1/2B	—	25	50
7.000	177.8	—	DM7000-1B	DM7000-1-1/2B	—	25	25
7.250	184.2	—	DM7250-1B	DM7250-1-1/2B	—	50	50
7.500	190.5	—	DM7500-1B	DM7500-1-1/2B	—	50	25
7.750	196.9	—	DM7750-1B	DM7750-1-1/2B	—	50	50
8.000	203.2	—	DM8000-1B	DM8000-1-1/2B	—	50	25

HIGH TEMPERATURE CAPS

SC Series
Straight Masking Caps

Specifications:

- Material: Silicone Silicone 600°F (316°C) or EPDM 425°F (218°C), See Table
- Hardness: Durometer (Shore A) 55 ± 5
- Color: See Table



See pages 87 and 88 for Application Wizards.

Features:

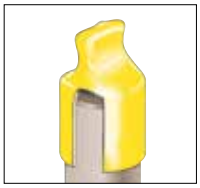
- Excellent sealing due to flexible material
- Masking for studs and tube ends
- Although designed as a cap, can be used to plug holes if inverted
- Silicone: premium masking material (due to high temperature and chemical resistance) can be used multiple times; available in natural and mixed colors for color coding applications
- EPDM: a more economical material with reduced heat resistance, is reusable
- Applications: Powder Coating, E-Coating, Plating, Anodizing and Blasting

LINE EXTENSION

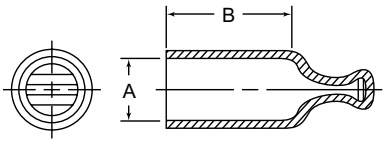
Item No.	Item No. Color		Item No.	Caps Std Threads		A		B		C		Bulk Pack Qty.	Color Bulk Pack Qty.
Silicone Natural	Silicone	Color	EPDM Black	UNC	M	in	mm	in	mm	in	mm		
SC002005A	—	—	SC002005B	—	—	0.020	0.5	0.140	3.6	0.500	12.7	1000	—
SC003505A	—	—	SC003505B	—	—	0.035	0.9	0.130	3.3	0.500	12.7	1000	—
SC004007A	—	—	SC004007B	—	—	0.040	1.0	0.130	3.3	0.750	19.1	1000	—
SC006207A	—	—	SC006207C	—	—	0.062	1.6	0.152	3.9	0.750	19.1	1000	—
—	• SC006210	Blue		2-56	M2	0.070	1.8	0.160	4.1	1.000	25.4	1000	1000
SC007010A	—	—	SC007010B	—	—	0.080	2.0	0.200	5.1	0.750	19.1	1000	—
SC008007A	—	—	SC008007B	3-48	—	0.093	2.4	0.193	4.9	0.750	19.1	1000	—
SC009307A	—	—	SC009307B	4-40	—	0.100	2.5	0.200	5.1	0.500	12.7	1000	—
—	• SC009310	White		4-40	—	0.100	2.5	0.200	5.1	1.000	25.4	1000	1000
SC010005A	—	—	SC010005B	5-40	M3	0.109	2.8	0.209	5.3	0.750	19.1	1000	—
SC010010A	• SC010010	Green	SC010010C	6-32	—	0.125	3.2	0.225	5.7	1.000	25.4	1000	1000
SC010907A	• SC010907	Grey	SC010907C	—	—	0.140	3.6	0.260	6.6	1.000	25.4	1000	1000
SC012510A	—	—	SC012510C	—	M4	0.148	3.8	0.248	6.3	1.000	25.4	1000	—
SC014010A	• SC014010	White	SC014010C	8-32	M4	0.156	4.0	0.276	7.0	0.500	12.7	1000	1000
SC014810A	• SC014810	Pink	SC014810C	8-32	M4	0.156	4.0	0.276	7.0	1.000	25.4	1000	1000
SC015605A	—	—	SC015605B	10-24	—	0.172	4.4	0.292	7.4	0.500	12.7	1000	—
SC015610A	• SC015610	Yellow	SC015610C	—	—	0.172	4.4	0.292	7.4	1.000	25.4	1000	1000
SC017205A	—	—	SC017205B	—	—	0.180	4.6	0.300	7.6	1.000	25.4	1000	—
SC017210A	• SC017210	Blue	SC017210B	12-24	M5	0.187	4.7	0.307	7.8	0.500	12.7	1000	1000
SC018010A	—	—	SC018010C	12-24	M5	0.187	4.7	0.307	7.8	1.000	25.4	1000	—
SC018705A	—	—	SC018705B	12-24	M5	0.187	4.7	0.307	7.8	1.500	38.1	1000	—
SC018710A	—	—	SC018710B	—	—	0.197	5.0	0.317	8.1	0.500	12.7	1000	—
SC018715A	—	—	SC018715B	—	—	0.218	5.5	0.338	8.6	1.000	25.4	1000	—
SC019705A	—	—	SC019705B	—	M6	0.223	5.7	0.343	8.7	1.000	25.4	1000	—
SC021810A	—	—	SC021810B	—	M6	0.223	5.7	0.343	8.7	1.500	38.1	1000	—
SC022310A	—	—	SC022310B	1/4-20	—	0.234	5.9	0.354	9.0	0.500	12.7	1000	—
SC022315A	• SC022315	Pink	SC022315B	1/4-20	—	0.234	5.9	0.354	9.0	1.000	25.4	1000	1000
SC023405A	—	—	SC023405B	1/4-20	—	0.234	5.9	0.354	9.0	1.125	28.6	1000	—
SC023410A	• SC023410	Green	SC023410C	1/4-20	—	0.234	5.9	0.354	9.0	1.500	38.1	1000	1000
SC02341125A	—	—	SC02341125B	—	—	0.250	6.3	0.370	9.4	1.000	25.4	1000	—
SC023415A	—	—	SC023415B	—	—	0.250	6.3	0.370	9.4	1.500	38.1	1000	—
SC025010A	• SC025010	Grey	SC025010C	5/16-18	—	0.281	7.1	0.401	10.2	1.000	25.4	1000	1000
SC025015A	—	—	SC025015B	—	M8	0.295	7.5	0.415	10.5	0.500	12.7	1000	—
SC028110A	• SC028110	Blue	SC028110B	—	M8	0.295	7.5	0.415	10.5	1.000	25.4	1000	500
SC029505A	—	—	SC029505B	—	M8	0.295	7.5	0.415	10.5	1.500	38.1	1000	—
SC029510A	—	—	SC029510B	—	M8	0.295	7.5	0.415	10.5	1.750	44.5	1000	—
SC029515A	—	—	SC029515C	—	—	0.312	7.9	0.432	11.0	1.000	25.4	1000	—
SC029517A	—	—	SC029517B	—	—	0.312	7.9	0.432	11.0	1.500	38.1	1000	—
SC031210A	• SC031210	White	SC031210C	—	—	0.340	8.6	0.460	11.7	1.000	25.4	1000	500
SC031215A	—	—	SC031215B	3/8-14	—	0.355	9.0	0.475	12.1	1.500	38.1	1000	—
SC034010A	• SC034010	Pink	SC034010B	—	M10	0.375	9.5	0.495	12.6	1.000	25.4	1000	500
SC035515A	—	—	SC035515B	—	M10	0.375	9.5	0.495	12.6	1.500	38.1	1000	—
SC037510A	• SC037510	Yellow	SC037510B	7/16-14	—	0.406	10.3	0.526	13.4	1.000	25.4	1000	500
SC037515A	—	—	SC037515C	—	—	0.437	11.1	0.557	14.2	1.000	25.4	500	—
SC040610A	• SC040610	Blue	SC040610B	—	M12	0.456	11.6	0.576	14.6	1.500	38.1	200	250
SC043710A	• SC043710	Grey	SC043710B	—	—	0.468	11.9	0.588	14.9	1.000	25.4	200	250
SC045615A	—	—	SC045615B	1/2-13	—	0.480	12.2	0.600	15.2	1.500	38.1	200	—
SC046810A	• SC046810	White	SC046810C	—	—	0.500	12.7	0.620	15.8	1.500	38.1	200	250
SC048015A	• SC048015	Pink	SC048015B	9/16-12	M14	0.535	13.6	0.655	16.6	1.500	38.1	200	250
SC050015A	• SC050015	Green	SC050015C	—	M15	0.562	14.3	0.682	17.3	1.500	38.1	200	250
SC053515A	• SC053515	Yellow	SC053515B	5/8-11	M16	0.600	15.2	0.720	18.3	1.500	38.1	200	250
SC056215A	• SC056215	Blue	SC056215B	—	M17	0.625	15.9	0.745	18.9	1.500	38.1	200	250
SC060015A	• SC060015	Grey	SC060015C	—	M17	0.625	15.9	0.745	18.9	2.500	63.5	100	250
SC062515A	—	—	SC062515B	—	—	0.687	17.4	0.807	20.5	1.500	38.1	200	—
SC062525A	—	—	SC062525B	3/4-10	M19	0.730	18.5	0.850	21.6	1.500	38.1	200	—
SC068715A	• SC068715	Pink	SC068715B	—	—	0.750	19.1	0.870	22.1	1.500	38.1	200	100
SC073015A	• SC073015	Green	SC073015B	—	—	0.750	19.1	0.870	22.1	3.500	88.9	200	100
SC075015A	• SC075015	Yellow	SC075015B	—	—	0.780	19.8	0.900	22.9	1.500	38.1	200	100
SC075035A	—	—	SC075035B	—	—	0.812	20.6	0.932	23.7	1.500	38.1	200	—
SC078015A	• SC078015	Blue	SC078015B	—	—	0.875	22.2	0.995	25.3	1.500	38.1	200	100
SC081215A	• SC081215	Grey	SC081215B	—	M24	0.937	23.8	1.057	26.9	1.500	38.1	100	100
SC087515A	—	—	SC087515B	1-8	M25	0.970	24.6	1.090	27.7	1.500	38.1	100	—
SC093715A	• SC093715	White	SC093715B	—	M27	1.000	25.4	1.120	28.5	1.500	38.1	100	100
SC097015A	• SC097015	Pink	SC097015B	—	—	1.062	26.0	1.182	30.0	1.500	38.1	100	100
SC100015A	• SC100015	Green	SC100015B	—	—	1.062	26.0	1.182	30.0	2.000	50.8	100	100
SC106215A	—	—	SC106215B	—	M30	1.125	28.6	1.245	31.6	1.500	38.1	100	—
SC106220A	• SC106220	Grey	SC106220B	—	—	1.187	30.1	1.307	33.2	1.500	38.1	100	100
SC112515A	• SC112515	Blue	SC112515B	1 1/4-7	M33	1.250	31.8	1.370	34.8	1.500	38.1	100	100
SC118715A	• SC118715	Yellow	SC118715B	—	—	1.350	34.3	1.470	37.3	1.750	44.4	100	100
SC125015A	—	—	SC125015B	1 1/4-7	M39	1.500	38.1	1.620	41.2	1.750	44.4	100	—
SC135017A	• SC135017	White	SC135017B	—	—	1.625	41.3	1.745	44.3	2.000	50.8	100	100
SC150017A	• SC150017	Green	SC150017B	1 3/4-5	—	1.750	44.4	1.870	47.5	2.000	50.8	100	50
SC162520A	—	—	SC162520B	—	—	1.875	47.6	1.995	50.7	2.000	50.8	50	—
SC175020A	• SC175020	Yellow	SC175020B	2-4 1/2	—	2.000	50.8	2.120	53.9	2.000	50.8	50	50
SC187520A	• SC187520	Grey	SC187520B	—	—	1.875	47.6	1.995	50.7	2.000	50.8	50	50
SC200020A	• SC200020	Blue	SC200020B	2-4 1/2	—	2.000	50.8	2.120	53.9	2.000	50.8	50	25

HIGH TEMPERATURE CAPS

DMPC (HT) Series
High Temperature Vinyl Pull Caps



See pages 87 and 88 for Application Wizards.

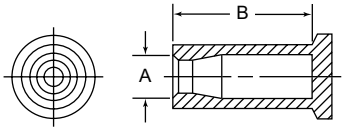


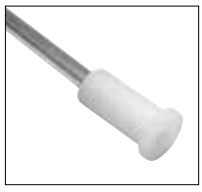
Specifications:
- Material: High Temperature Soft Vinyl 425°F (218°C)
- Hardness: Durameter of 85 +/–2
- Color: Yellow
- Alternative Material: Lower Temp Black Vinyl available (see page 31)

Features:
- Ergonomic finger pull tab for easy removal
- Excellent chemical resistance
- Economical solution for one-time uses
- Applications: Powder Coating, E-Coating, Plating, and General Paint Lines

A = To Fit		Item No. by Length of Cap (B Dimension)			Bulk Pack Qty.		
in	mm	1/2" (12.70 mm)	1" (24.4 mm)	1-1/2" (38.1 mm)	1/2"	1"	1-1/2"
0.187	4.8	DMPC0180-1/2B	DMPC0180-1B	—	5000	5000	—
0.218	5.5	DMPC0207-1/2D	DMPC0207-1D	—	5000	5000	—
0.250	6.4	DMPC0240-1/2E	DMPC0240-1C	—	5000	5000	—
0.313	7.9	DMPC0302-1/2G	DMPC0302-1D	DMPC0302-1-1/2B	7500	5000	2500
0.320	8.1	DMPC0320-1/2B	DMPC0320-1B	DMPC0320-1-1/2B	5000	5000	2500
0.343	8.7	DMPC0343-1/2B	DMPC0343-1B	DMPC0343-1-1/2B	5000	3000	2500
0.375	9.5	DMPC0365-1/2E	DMPC0365-1G	DMPC0365-1-1/2B	5000	3000	2000
0.406	10.3	DMPC0396-1/2G	DMPC0396-1D	DMPC0396-1-1/2B	5000	5000	2500
0.420	10.7	DMPC0420-1/2B	DMPC0420-1B	DMPC0420-1-1/2B	5000	5000	2500
0.437	11.1	DMPC0427-1/2F	DMPC0427-1G	DMPC0427-1-1/2C	5000	4000	2500
0.450	11.4	DMPC0450-1/2B	DMPC0450-1B	DMPC0450-1-1/2B	5000	4000	2500
0.472	12.0	DMPC0470-1/2C	DMPC0470-1D	DMPC0470-1-1/2C	5000	4000	2500
0.500	12.7	DMPC0490-1/2D	DMPC0490-1F	DMPC0490-1-1/2D	5000	4000	2000
0.531	13.5	DMPC0521-1/2C	DMPC0521-1C	DMPC0521-1-1/2B	5000	4000	2500
0.562	14.3	DMPC0552-1/2D	DMPC0552-1C	DMPC0552-1-1/2B	2500	2500	2500
0.593	15.1	DMPC0590-1/2C	DMPC0590-1F	DMPC0590-1-1/2B	2500	1900	1500
0.600	15.2	DMPC0600-1/2D	DMPC0600-1C	DMPC0600-1-1/2B	5000	2500	2500
0.625	15.9	DMPC0625-1/2C	DMPC0625-1F	DMPC0625-1-1/2D	2500	1350	1500
0.655	16.6	DMPC0655-1/2D	DMPC0655-1D	DMPC0655-1-1/2B	2000	2500	1500
0.677	17.2	DMPC0677-1/2B	DMPC0677-1C	DMPC0677-1-1/2B	5000	2500	1500
0.687	17.5	DMPC0687-1/2G	DMPC0687-1E	DMPC0687-1-1/2B	2500	2000	1500
0.708	18.0	DMPC0708-1/2B	DMPC0708-1B	DMPC0708-1-1/2B	2500	2000	1500
0.750	19.1	DMPC0740-1/2C	DMPC0740-1D	DMPC0740-1-1/2C	4000	2500	1500
0.812	20.6	DMPC0812-1/2D	DMPC0812-1D	DMPC0812-1-1/2C	2500	2000	750
0.875	22.2	DMPC0865-1/2D	DMPC0865-1B	DMPC0865-1-1/2B	1500	1500	750
0.937	23.8	DMPC0937-1/2B	DMPC0937-1B	DMPC0937-1-1/2B	1500	1500	750
1.000	25.4	DMPC0990-1/2B	DMPC0990-1B	DMPC0990-1-1/2B	1500	1500	750
1.060	26.9	—	DMPC1060-1D	DMPC1060-1-1/2B	—	1000	700
1.125	28.6	—	DMPC1125-1B	DMPC1125-1-1/2B	—	1000	700
1.230	31.8	—	DMPC1230-1B	DMPC1230-1-1/2B	—	1000	700
1.500	38.1	—	DMPC1500-1B	DMPC1500-1-1/2B	—	700	250
1.605	41.3	—	DMPC1605-1B	DMPC1605-1-1/2C	—	550	350

SCE Series
Easy Pull Masking Caps





Specifications:
- Material: Natural Silicone 600°F (316°C) or Black EPDM 425°F (218°C), See Table
- Hardness: Durometer (Shore A) 55 ± 5

Features:
- Wide flange design provides a positive seal and easy removal
- Silicone: premium masking material (due to high temperature and chemical resistance) can be used multiple times
- EPDM: a more economical material with reduced heat resistance, is reusable
- Applications: Powder Coating, E-Coating, Plating, Anodizing and Blasting

To Assure Proper Fit Due to Design Features:

Caps

I.D. of cap "A" dimension should be approx. 10% smaller than O.D. of part to be masked

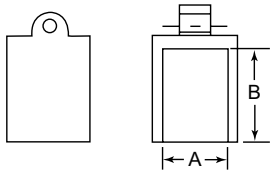
Item No.		A		B		Bulk Pack Qty.
Silicone	EPDM	in	mm	in	mm	
SCE0125A	SCE0125B	0.125	3.2	2.000	50.8	200
SCE0157A	SCE0157B	0.157	4.0	1.180	30.0	500
SCE0187A	SCE0187B	0.187	4.7	1.377	34.0	1000
SCE0236A	SCE0236B	0.236	6.0	1.180	30.0	400
SCE0255A	SCE0255B	0.255	6.5	0.910	23.1	500
SCE0255118A	SCE0255118C	0.255	6.5	1.180	30.0	250
SCE0294A	SCE0294B	0.294	7.5	1.330	33.8	1000
SCE0315A	SCE0315B	0.315	8.0	0.974	24.7	250
SCE0315118A	SCE0315118D	0.315	8.0	1.180	30.0	250
SCE0355A	SCE0355B	0.355	9.0	1.500	38.1	250
SCE0375A	SCE0375B	0.375	9.5	1.421	36.1	250

Item No.		A		B		Bulk Pack Qty.
Silicone	EPDM	in	mm	in	mm	
SCE0433A*	SCE0433C	0.433	11.0	1.180	30.0	500
SCE0438A	SCE0438C	0.438	11.1	0.950	24.1	500
SCE0451A	SCE0451B	0.451	11.5	1.215	30.9	200
SCE0485A	SCE0485B	0.485	12.3	1.013	25.7	500
SCE0492118A	SCE0492118B	0.492	12.5	1.180	30.0	200
SCE0531A	SCE0531B	0.531	13.5	1.180	30.0	250
SCE0608A	SCE0608B	0.608	15.4	1.180	30.0	200
SCE0608099A	SCE0608099B	0.608	15.4	0.990	25.1	200
SCE0622A	SCE0622B	0.622	15.8	1.575	40.0	200
SCE0725A	SCE0725B	0.725	18.4	1.500	38.1	100

*** Has 2nd internal rib near closed end of cap**

HIGH TEMPERATURE CAPS

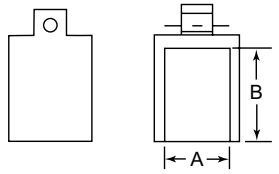
FEC Series
Flexible End Caps



Type 1

Specifications:
- Material: Thermoplastic Elastomer 203°F (95°C)
- Color: Black

Features:
- Flexible material can stretch onto larger diameters for a snug fit
- Good resistance to acids
- Can be used with Masking Hooks on page 85

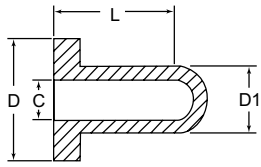


Type 2

Item No.	Type	A in	A mm	B in	B mm	Bulk Pack Qty.
• 1340242	2	0.157	4.0	0.945	24.0	10000
12200B	1	0.197	5.0	0.925	23.5	10000
• 1341946	2	0.236	6.0	0.984	25.0	10000
• 1287248	2	0.276	7.0	0.945	24.0	10000
• 1287251	2	0.315	8.0	0.965	24.5	8000
12204B	1	0.354	9.0	0.984	25.0	7000
• 1341978	2	0.394	10.0	1.161	29.5	5000
• 1341987	2	0.433	11.0	1.142	29.0	4500
12207B	1	0.472	12.0	1.142	29.0	4000
• 1341981	2	0.512	13.0	1.142	29.0	3500
12209B	1	0.551	14.0	1.161	29.5	3000
12210B	1	0.591	15.0	1.161	29.5	2500
12211B	1	0.630	16.0	1.102	28.0	2500
12212B	1	0.669	17.0	1.161	29.5	2000

Item No.	Type	A in	A mm	B in	B mm	Bulk Pack Qty.
12213B	2	0.709	18.0	1.122	28.5	2000
• 1287245	2	0.748	19.0	1.161	29.5	2000
• 1341984	2	0.787	20.0	1.122	28.5	1600
12216B	1	0.827	21.0	1.358	34.5	1300
12217B	2	0.866	22.0	1.339	34.0	1200
12218B	2	0.906	23.0	1.358	34.5	1000
• 1341988	2	0.945	24.0	1.339	34.0	1000
12220B	2	0.984	25.0	1.358	34.5	1000
12221B	2	1.024	26.0	1.358	34.5	900
12222B	2	1.063	27.0	1.319	33.5	900
• 1287254	2	1.102	28.0	1.319	33.5	800
12224B	2	1.142	29.0	1.378	35.0	800
• 1287243	2	1.181	30.0	1.358	34.5	600

WC Series
Washer Caps



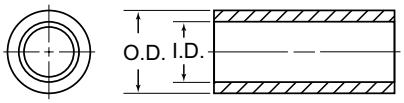
Specifications:
- Material: Natural Silicone 600°F (316°C) or Black EPDM 425°F (218°C), See Table

Features:
- Designed as a cap with an added washer to mask off grounding
- Although designed as a cap, can be used to plug holes if inverted

Item No.		Caps Std Threads		C		D		D1		L		Bulk Pack Qty.
Silicone	EPDM	UN	M	in	mm	in	mm	in	mm	in	mm	
WC0100050A	WC0100050B	#4	M2.5	0.100	2.5	0.500	12.7	0.225	5.7	1.000	25.4	500
WC0125050A	WC0125050B	#6	—	0.125	3.2	0.500	12.7	0.252	6.4	1.000	25.4	500
WC0156050A	WC0156050B	#8	M4	0.156	4.0	0.500	12.7	0.315	8.0	1.000	25.4	500
WC0172050A	WC0172050B	#10	—	0.172	4.4	0.500	12.7	0.382	9.7	1.000	25.4	500
WC0220059A	WC0220059B	—	M6	0.220	5.6	0.590	15.0	0.358	9.1	1.000	25.4	500
WC0240050A	WC0240050B	1/4	—	0.240	6.1	0.500	12.7	0.358	9.1	1.000	25.4	250
WC0295070A	WC0295070B	5/16	M8	0.295	7.5	1.700	17.8	0.413	10.5	1.000	25.4	250
WC0375082A	WC0375082B	3/8	M10	0.375	9.5	0.825	21.0	0.512	13.0	1.500	38.1	250
WC0453098A	WC0453098B	—	M12	0.453	11.5	0.984	25.0	0.650	16.5	1.500	38.1	250
WC0500100A	WC0500100B	1/2	—	0.500	12.7	1.000	25.4	0.606	15.4	1.000	25.4	250
WC0615118A	WC0615118B	5/8	M16	0.615	15.6	1.180	30.0	0.815	20.7	1.500	38.1	100

HIGH TEMPERATURE TUBING

ST Series
Silicone Tubing



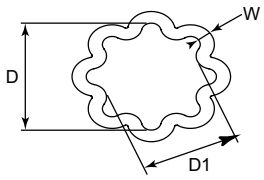
Specifications:
- Material: Silicone 600°F (315°C)
- Hardness: Durometer (Shore A) 55 ± 5
- Color: Natural

Features:
- Excellent solution to fit over longer parts where standard caps are too short (can use with cap if required)
- Masking off thru hole, by utilizing the O.D. of silicone tube and pulling it through
- Can be cut to required length (cutting long creates easy pull tab)
- Conforms to irregularities
- Reusable and will not melt or harden
- Applications: Powder Coating, E-Coating, Plating and Anodizing

Item No.	ID		OD		Roll Length		Pack Qty.
	in	mm	in	mm	ft	m	
ST0040A	0.040	1.0	0.165	4.2	100	30.48	1
ST0062A	0.062	1.6	0.187	4.8	100	30.48	1
ST0080A	0.080	2.0	0.205	5.2	100	30.48	1
ST0093A	0.093	2.4	0.218	5.6	100	30.48	1
ST0109A	0.109	2.8	0.234	6.0	100	30.48	1
ST0125A	0.125	3.2	0.250	6.4	100	30.48	1
ST0140A	0.140	3.6	0.265	6.8	100	30.48	1
ST0156A	0.156	4.0	0.281	7.2	100	30.48	1
ST0172A	0.172	4.4	0.297	7.6	100	30.48	1
ST0187A	0.187	4.7	0.312	7.9	100	30.48	1
ST0203A	0.203	5.2	0.328	8.4	100	30.48	1
ST0218A	0.218	5.5	0.343	8.7	100	30.48	1
ST0234A	0.234	5.9	0.359	9.1	100	30.48	1
ST0250A	0.250	6.3	0.375	9.5	100	30.48	1
ST0281A	0.281	7.1	0.406	10.3	50	15.24	1
ST0312A	0.312	7.9	0.437	11.1	50	15.24	1
ST0343A	0.343	8.7	0.468	11.9	50	15.24	1
ST0375A	0.375	9.5	0.500	12.7	50	15.24	1
ST0406A	0.406	10.3	0.531	13.5	50	15.24	1
ST0437A	0.437	11.1	0.562	14.3	50	15.24	1
ST0500A	0.500	12.7	0.625	15.9	50	15.24	1
ST0625A	0.625	15.9	0.750	19.1	50	15.24	1
ST0750A	0.750	19.1	0.875	22.3	50	15.24	1
ST0875A	0.875	22.2	1.000	25.4	50	15.24	1
ST0937A	0.937	23.8	1.062	27.0	50	15.24	1
ST1000A	1.000	25.4	1.125	28.6	50	15.24	1
ST1125A	1.125	28.6	1.250	31.8	25	7.62	1
ST1250A	1.250	31.8	1.375	35.0	25	7.62	1
ST1375A	1.375	34.9	1.500	38.1	25	7.62	1
ST1500A	1.500	38.1	1.625	41.3	25	7.62	1
ST1625A	1.625	41.3	1.750	44.5	25	7.62	1
ST1750A	1.750	44.4	1.875	47.6	25	7.62	1
ST1875A	1.875	47.6	2.000	50.8	25	7.62	1
ST2000A	2.000	50.8	2.125	54.0	25	7.62	1

STFL Series
Flexible Silicone Star Tubing

LINE EXTENSION



Specifications:
- Material: Silicone 600°F (315°C)
- Color: See Table

Features:
- Flexible enough for each to fit several ranges
- Fits over threaded studs, unthreaded tubes or irregular shapes

See pages 87 and 88 for Application Wizards.

Item No.	Color	D		D1		W		Fits Std. Threads	Roll Length		Pack Qty.
		in	mm	in	mm	in	mm		ft	m	
STFL011020A	Red	0.209	5.3	0.110	2.8	0.06	1.5	4 - 40, 6 - 32, 8 - 32, 10 - 24, M4, M5	100	30.48	1
STFL018028A	Yellow	0.287	7.3	0.189	4.8	0.06	1.5	10 - 24, 12 - 24, 1/4 - 20, M5, M6	100	30.48	1
STFL025037A	Clear	0.374	9.5	0.256	6.5	0.06	1.5	5/16 - 18, M8	100	30.48	1
STFL033045A	Blue	0.452	11.5	0.335	8.5	0.06	1.5	3/8 - 16, M10	100	30.48	1
STFL042055A	Green	0.551	14.0	0.421	10.7	0.06	1.5	7/16 - 14, 1/2 - 13, M12, M14	100	30.48	1
STFL050062A	Purple	0.625	15.9	0.500	12.7	0.06	1.5	9/16 - 12, 5/8 - 11	100	30.48	1
STFL062075A	Rust	0.750	19.1	0.625	15.9	0.06	1.5	5/8 - 11, 11/16, M16, M18	50	15.24	1
STFL072087A	Blue	0.875	22.2	0.725	18.4	0.06	1.5	3/4 - 10, 7/8 - 9, M20	50	15.24	1
STFL085100A	White	1.000	25.4	0.850	21.6	0.06	1.5	1 - 8, M20, M24, M25	50	15.24	1
• **1426282**	Natural	1.250	31.7	1.000	25.4	0.06	1.5	1 - 1/4-7,M33	25	7.62	1
• **1426284**	Purple	1.500	38.1	1.250	31.7	0.06	1.5	1 - 1/2-6,M39	25	7.62	1
• **1426286**	Rusty	1.750	44.4	1.500	38.1	0.06	1.5	1 - 3/4 - 5	25	7.62	1
• **1426288**	Orange	2.000	50.8	1.750	44.4	0.06	1.5	2 - 4 - 1/2	25	7.62	1

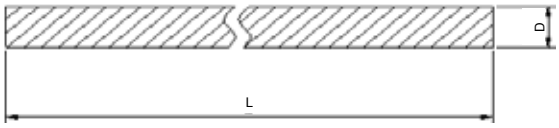
HIGH TEMPERATURE TUBING

Flexible Silicone Foam Cord

NEW

Specifications:
- Material: Silicone Foam 600°F (315°C)
- Color: Natural

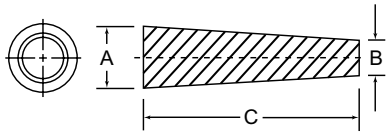
Features:
- Can be used like a gasket to mask off threads, grooves, slots, or keyways
- Can be cut to length and is reusable
- Applications: Powder Coating, E-Coating, Plating and Anodizing



Item No.	D		Roll Length		Pack Qty.
	in	mm	Ft	M	
1426383	0.125	3.2	50	15	1
1426385	0.187	4.7	50	15	1
1426387	0.250	6.4	50	15	1
1426389	0.312	7.9	50	15	1
1426391	0.500	12.7	25	7.5	1
1426393	0.625	15.9	25	7.5	1
1426395	0.750	19.1	25	7.5	1
1426397	0.875	22.2	25	7.5	1
1426399	1.000	25.4	25	7.5	1
1426401	1.250	31.8	25	7.5	1
1426403	1.500	38.1	25	7.5	1
1426405	1.750	44.5	25	7.5	1
1426407	2.000	50.8	25	7.5	1

HIGH TEMPERATURE PLUGS

STP Series
Tapered Masking Plugs



LINE EXTENSION

Specifications:
- Material: Silicone 600°F (316°C) or EPDM 425°F (218°C), See Table
- Hardness: Durometer (Shore A) 55 ± 5
- Color: See Table

Features:
- Plugs threaded or unthreaded holes
- Silicone: premium masking material (due to high temperature rating) can be used multiple times
- Silicone available in natural and mixed colors for color coding applications
- EPDM: reusable, economical material with slightly reduced heat resistance, but superior chemical resistance
- Applications: Powder Coating, E-Coating, Plating and Anodizing
- For Hollow Tapered Masking Plugs see HSTP Series on page 79

To Assure Proper Fit and Easy Handling:

Plugs

We suggest that you select "A" dimension to be approximately 15% larger than the hole diameter

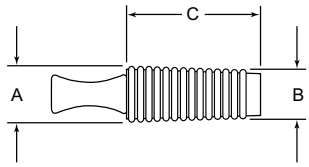
See pages 87 and 88 for Application Wizards.

Item No.	Item No. Color		Item No.	Plugs Std Threads		A		B		C		Bulk Pack Qty.	Color Bulk Pack Qty.
Silicone (Natural)	Silicone	Color	EPDM (Black)	UNC	M	in	mm	in	mm	in	mm		
STP001006A	—	—	STP001006B	—	—	0.062	1.6	0.016	0.4	0.625	15.9	1000	—
STP002007A	—	—	STP002007B	—	—	0.078	2.0	0.020	0.5	0.750	19.1	1000	—
STP003012A	—	—	STP003012B	2-56	M2	0.125	3.2	0.031	0.8	0.625	15.9	1000	—
STP006012A	• STP006012	Green	STP006012C	4-40	—	0.125	3.2	0.063	1.6	0.625	15.9	1000	1000
STP006018A	• STP006018	Pink	STP006018C	6-32	—	0.187	4.7	0.063	1.6	0.625	15.9	1000	1000
STP006018-07A	—	—	STP006018-07C	8-32	—	0.187	4.7	0.062	1.6	0.750	19.1	1000	—
STP004019-11A	—	—	STP004019-11B	8-32	M4	0.197	5.0	0.049	1.2	1.100	27.9	1000	—
STP006020A	—	—	STP006020D	10-24	M4	0.200	5.1	0.062	1.6	0.750	19.1	1000	—
STP012025A	• STP012025	Grey	STP012025D	12-24	M6	0.250	6.3	0.125	3.2	0.750	19.1	1000	1000
STP012025-10A	—	—	STP012025-10C	1/4-20	M6	0.250	6.3	0.125	3.2	1.000	25.4	1000	—
STP001027A	—	—	STP001027B	—	—	0.279	7.1	0.016	0.4	0.984	25.0	1000	—
STP018034A	• STP018034	Blue	STP018034D	5/16-18	M8	0.343	8.7	0.187	4.7	0.625	15.9	1000	1000
STP018034-10A	—	—	STP018034-10C	5/16-18	M8	0.343	8.7	0.187	4.7	1.000	25.4	1000	—
STP012037-12A	—	—	STP012037-12B	5/16-18	—	0.375	9.5	0.125	3.2	1.250	31.8	1000	—
STP025037A	• STP025037	Yellow	STP025037D	3/8-16	M10	0.375	9.5	0.250	6.3	0.750	19.1	1000	500
STP025043A	—	—	STP025043C	7/16-14	M10	0.437	11.1	0.250	6.3	1.000	25.4	1000	—
STP035047A	—	—	STP035047B	1/2-13	—	0.472	12.0	0.354	9.0	0.708	18.0	500	—
STP012050-20A	—	—	STP012050-20B	—	—	0.500	12.7	0.125	3.2	2.000	50.8	1000	—
STP031050A	—	—	STP031050C	—	M12	0.500	12.7	0.312	7.9	1.000	25.4	200	—
STP039059A	• STP039059	Purple	STP039059B	9/16-12	M14	0.590	15.0	0.393	10.0	1.000	25.4	500	250
STP043062A	• STP043062	Green	STP043062D	5/8-11	M16	0.625	15.9	0.437	11.1	0.813	20.7	200	250
STP051067A	• STP051067	Pink	STP051067E	—	—	0.669	17.0	0.512	13.0	1.000	25.4	200	250
STP055075A	• STP055075	Grey	STP055075D	3/4-10	—	0.748	19.0	0.562	14.3	1.000	25.4	200	100
STP062078A	• STP062078	Red	STP062078D	—	M20	0.787	20.0	0.625	15.9	1.000	25.4	100	100
STP053079A	—	—	STP053079B	—	—	0.797	20.2	0.538	13.7	0.984	25.0	200	—
STP071094A	• STP071094	Yellow	STP071094C	—	—	0.938	23.8	0.719	18.2	1.000	25.4	100	100
STP062094A	—	—	STP062094B	7/8-9	—	0.945	24.0	0.625	15.9	1.000	25.4	100	—
STP075094A	—	—	STP075094C	—	—	0.945	24.0	0.750	19.2	0.750	19.1	100	—
STP078102A	—	—	STP078102B	1-8	—	1.024	26.0	0.787	20.0	1.000	25.4	100	—
STP090106A	• STP090106	Green	STP090106C	—	—	1.063	27.0	0.906	23.0	1.000	25.4	100	100
STP094110A	—	—	STP094110C	—	—	1.102	28.0	0.945	24.0	1.000	25.4	100	—
STP109118A	—	—	STP109118B	1-1/8-7	—	1.181	30.0	1.094	27.8	1.000	25.4	50	—
STP102126A	• STP102126	Purple	STP102126B	1 1/4-7	—	1.250	31.8	1.031	26.1	1.000	25.4	100	100
STP106134A	—	—	STP106134B	1 3/8-6	—	1.338	34.0	1.063	27.0	1.000	25.4	100	—
STP118145A	• STP118145	Blue	STP118145B	1 1/2-6	—	1.456	36.9	1.188	30.2	1.000	25.4	50	100
STP122153A	—	—	STP122153B	—	—	1.535	39.0	1.220	31.0	1.000	25.4	50	—
STP130161A	—	—	STP130161B	—	—	1.614	41.0	1.300	33.0	1.000	25.4	50	—
STP141169A	—	—	STP141169C	—	—	1.693	43.0	1.417	36.0	1.000	25.4	50	—
STP145177A	• STP145177	Red	STP145177C	1 3/4-5	—	1.772	45.0	1.457	37.0	1.000	25.4	50	50
STP149181A	—	—	STP149181C	—	—	1.810	46.0	1.496	38.0	1.000	25.4	50	—
STP165196A	—	—	STP165196B	2-4 1/2	—	1.968	50.0	1.653	42.0	1.000	25.4	25	—
STP177208A	—	—	STP177208B	—	—	2.086	53.0	1.770	45.0	1.000	25.4	25	—
STP189220A	• STP189220	Blue	STP189220C	—	—	2.203	56.0	1.875	47.6	1.000	25.4	25	25
STP196248A	—	—	STP196248B	—	—	2.480	63.0	1.968	50.0	1.000	25.4	25	—
STP212252A	• STP212252	Yellow	STP212252B	—	—	2.500	63.5	2.125	54.0	1.000	25.4	25	25
STP228267A	—	—	STP228267B	—	—	2.677	68.0	2.283	58.0	1.000	25.4	25	—
STP244295A	—	—	STP244295B	—	—	2.953	75.0	2.440	62.0	1.377	35.0	25	—
STP295354A	—	—	STP295354B	—	—	3.543	90.0	2.953	75.0	1.535	39.0	25	—
STP326405A	—	—	STP326405B	—	—	4.055	103.0	3.267	83.0	1.535	39.0	20	—
STP354500A	—	—	STP354500B	—	—	5.000	127.0	3.543	90.0	1.968	50.0	10	—

HIGH TEMPERATURE PLUGS

See pages 87 and 88 for Application Wizards.

SFP Series
Flangeless Tapered Plugs



Specifications:
- Material: Silicone 600°F (316°C)
  Hardness: Durometer (Shore A) 55 ± 5
- Material: EPDM 425°F (218°C)
  Hardness: Durometer (Shore A) 50 ± 5
- Color: See Table

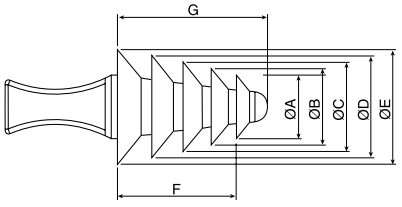
Features:
- Protects threaded or unthreaded holes without masking the surrounding areas
- Ergonomically-friendly pull tab allows for easy installation and removal
- Silicone: premium masking material (due to high temperature rating) can be used multiple times
- EPDM: reusable, economical material with slightly reduced heat resistance, but superior chemical resistance
- Applications: Powder Coating, E-Coating, Plating and Anodizing
- For TPR version, see page 49

Item No.		Plug Threads		A		B		C		Bulk Pack Qty.
Silicone (Natural)	EPDM (Black)	UN	M	in	mm	in	mm	in	mm	
SFP157236A	SFP157236B	#10 and #12	M4	0.236	6.0	0.157	4.0	1.0	25.4	1000
SFP236315A	SFP236315D	1/4 and 5/16	M6	0.315	8.0	0.236	6.0	1.0	25.4	1000
SFP315394A	SFP315394C	3/8	M8	0.394	10.0	0.315	8.0	1.0	25.4	1000
SFP188415A	SFP188415B	—	—	0.415	10.5	0.188	4.8	1.0	25.4	1000
SFP394472A	SFP394472C	7/16	M10	0.472	12.0	0.394	10.0	1.0	25.4	500
SFP472551A	SFP472551B	1/2	M12	0.551	14.0	0.472	12.0	1.0	25.4	500
SFP551630A	SFP551630C	5/8	M14	0.630	16.0	0.551	14.0	1.0	25.4	200
SFP415641A	SFP415641B	—	—	0.641	16.3	0.415	10.5	1.0	25.4	500
SFP630709A	SFP630709C	11/16	M16	0.709	18.0	0.630	16.0	1.0	25.4	200
SFP709787A	SFP709787C	3/4	M18	0.787	20.0	0.709	18.0	1.0	25.4	200
SFP641868A	SFP641868B	—	—	0.868	22.1	0.641	16.3	1.0	25.4	200
SFP787886A	SFP787886B	7/8	M20	0.886	22.5	0.787	20.0	1.0	25.4	200
SFP886945A	SFP886945C	—	—	0.945	24.0	0.886	22.5	1.0	25.4	200
SFP9541024A	SFP9541024B	1	M24	1.024	26.0	0.945	24.0	1.0	25.4	100
SFP8681094A	SFP8681094B	—	—	1.094	27.8	0.868	22.1	1.0	25.4	100
SFP10241102A	SFP10241102C	—	M25	1.102	28.0	1.024	26.0	1.0	25.4	100
SFP10001125A	SFP10001125B	—	—	1.125	28.5	1.000	25.4	1.0	25.4	100
SFP10941320A	SFP10941320B	—	—	1.320	33.5	1.094	27.8	1.0	25.4	100
SFP11251250A	SFP11251250B	1-1/8	—	1.250	31.8	1.125	28.6	1.0	25.4	100
SFP13201547A	SFP13201547B	1-1/2	—	1.547	39.3	1.320	33.5	1.0	25.4	100
SFP15471774A	SFP15471774B	1-3/4	—	1.774	45.1	1.547	39.3	1.0	25.4	50
SFP17742000A	SFP17742000B	2	M45	2.000	50.8	1.774	45.1	1.0	25.4	50

Multi-Flanged Plugs

NEW

Specifications:
- Material: Silicone 600°F (315°C)
- Hardness: Durometer (Shore A) 60 ± 5
- Color: See Table

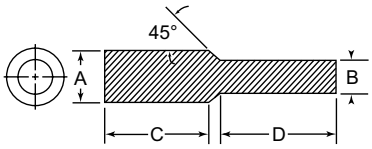


Features:
- Multi-Flange plugs are designed to mask plain or threaded holes
- Part will mask off the hole while allowing painting up to the hole
- Can fit into a range of holes due to the flexible fin design
- Parts are reusable
- Applications: Powder Coating, E-Coating, Plating and Anodizing

		A		B		C		D		E		F		G		Bulk Pack Qty.
Item No.	Color	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
1426291	Blue	0.157	4.0	0.236	6.0	0.315	8.0	0.394	10.0	—	—	0.419	10.6	0.535	13.6	500
1426293	Rusty Red	0.315	8.0	0.394	10.0	0.472	12.0	0.551	14.0	0.630	16.0	0.748	19.0	0.925	23.5	200
1426295	Green	0.394	10.0	0.472	12.0	0.551	14.0	0.630	16.0	0.709	18.0	0.748	19.0	0.945	24.0	200

HIGH TEMPERATURE PLUGS

SPP Series
Straight Pull Plugs for Through Holes



Specifications:

- Material: Natural Silicone 600°F (315°C)
  Hardness: Durometer (Shore A) 55 ± 5
- Material: Black EPDM 425°F (218°C)
  Hardness: Durometer (Shore A) 50 ± 5
- Color: See Table

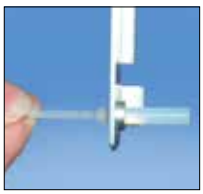
To Assure Proper Fit:

Plugs

"A" dimension (major I.D.) must be about 4–10% larger than the thru hole to be plugged as the material will stretch during installation for easy insertion

Features:

- Used to mask threaded or non-threaded through holes
- Used by pulling the thin end through the hole, stretching the larger end through the hole then releasing to let it compress and make a tight seal
- Silicone: premium masking material (due to high temperature and chemical resistance) can be used multiple times
- EPDM: reusable, economical material with slightly reduced heat resistance, but superior chemical resistance
- Applications: Powder Coating, E-Coating, Plating and Anodizing

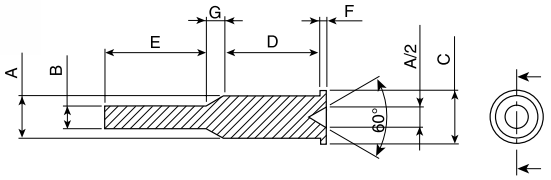


Item No.		Fits Through Holes			A		B		C		D		Bulk Pack Qty.
Silicone (Natural)	EPDM (Black)	Unthreaded ID	UN Thread	M Threads	in	mm	in	mm	in	mm	in	mm	
SPP0062A	SPP0062B	—	0-80	—	0.062	1.6	0.047	1.2	0.375	9.5	0.337	8.6	1000
SPP0067A	SPP0067B	—	—	—	0.067	1.7	0.047	1.2	0.625	15.9	0.610	15.5	1000
SPP0073A	SPP0073C	1/16	—	M2	0.073	1.9	0.047	1.2	0.612	15.5	0.590	15.0	1000
SPP0091A	SPP0091C	—	—	—	0.091	2.3	0.062	1.6	0.625	15.9	0.625	15.9	1000
SPP0093A	SPP0093B	—	2-56	—	0.093	2.4	0.062	1.6	0.700	17.8	0.700	17.8	1000
SPP0105A	SPP0105C	—	—	M3	0.105	2.7	0.070	1.8	1.000	25.4	1.000	25.4	1000
SPP0109A	SPP0109C	—	4-40	—	0.109	2.8	0.062	1.6	1.000	25.4	1.000	25.4	1000
SPP0118A	SPP0118C	—	—	—	0.118	3.0	0.082	2.1	1.000	25.4	1.000	25.4	1000
SPP0125A	SPP0125B	—	—	—	0.125	3.2	0.082	2.1	0.625	15.9	0.625	15.9	500
SPP0130A	SPP0130B	1/8	6-32	—	0.130	3.3	0.082	2.1	0.650	16.5	0.700	17.8	1000
SPP0140A	SPP0140C	—	—	M4	0.140	3.6	0.082	2.1	0.625	15.9	0.558	14.2	500
SPP0154A	SPP0154B	—	—	—	0.154	3.9	0.082	2.1	0.632	16.1	0.625	15.9	500
SPP0156A	SPP0156B	—	8-32	—	0.156	4.0	0.082	2.1	0.625	15.9	0.610	15.5	1000
SPP0158A	SPP0158C	—	—	—	0.158	4.0	0.093	2.4	1.250	31.8	1.250	31.8	500
SPP0162A	SPP0162C	—	—	—	0.162	4.1	0.093	2.4	0.625	15.9	0.581	14.8	1000
SPP0187A	SPP0187C	—	—	—	0.187	4.7	0.110	2.8	0.625	15.9	0.600	15.2	1000
SPP0195A	SPP0195B	—	10-32	M5	0.195	5.0	0.110	2.8	0.625	15.9	0.625	15.9	500
SPP0197A	SPP0197C	—	—	—	0.197	5.0	0.110	2.8	1.000	25.4	1.000	25.4	500
SPP0218A	SPP0218C	3/16	1/4-20	M6	0.218	5.5	0.110	2.8	1.000	25.4	1.000	25.4	1000
SPP0225A	SPP0225B	—	—	—	0.225	5.7	0.125	3.2	1.000	25.4	1.000	25.4	500
SPP0257A	SPP0257B	1/4	—	—	0.257	6.5	0.130	3.3	1.000	25.4	1.000	25.4	500
SPP0275A	SPP0275C	—	5/16-18	M8	0.275	7.0	0.130	3.3	0.937	23.8	0.920	23.4	200
SPP0281A	SPP0281C	—	—	—	0.281	7.1	0.138	3.5	1.000	25.4	0.920	23.4	200
SPP0312A	SPP0312C	—	—	—	0.312	7.9	0.147	3.7	1.250	31.8	1.250	31.8	200
SPP0332A	SPP0332B	5/16	—	—	0.332	8.4	0.250	6.4	0.757	19.2	1.100	27.9	200
SPP0335A	SPP0335C	—	—	—	0.335	8.5	0.157	4.0	1.000	25.4	1.000	25.4	200
SPP0350A	SPP0350C	—	3/8-16	—	0.350	8.9	0.157	4.0	0.881	22.4	0.925	23.5	500
SPP0388A	SPP0388B	3/8	—	M10	0.388	9.9	0.157	4.0	1.000	25.4	1.000	25.4	200
SPP0400A	SPP0400C	—	—	—	0.400	10.2	0.191	4.9	1.009	25.6	1.000	25.4	200
SPP0414A	SPP0414B	—	—	—	0.414	10.5	0.157	4.0	0.525	13.3	0.755	19.2	200
SPP0440A	SPP0440B	—	—	—	0.440	11.2	0.255	6.5	1.000	25.4	0.990	25.2	200
SPP0445A	SPP0445C	7/16	1/2-13	M12	0.445	11.3	0.157	4.0	1.000	25.4	1.000	25.4	200
SPP0468A	SPP0468C	—	1/2-20	—	0.468	11.9	0.250	6.4	1.000	25.4	1.000	25.4	250
SPP0500A	SPP0500B	—	—	—	0.500	12.7	0.250	6.4	1.000	25.4	1.000	25.4	200
SPP0510A	SPP0510B	1/2	—	—	0.510	13.0	0.250	6.4	1.000	25.4	0.956	24.3	200
SPP0530A	SPP0530B	—	5/8-11	M14	0.530	13.5	0.250	6.4	1.000	25.4	1.000	25.4	200
SPP0612A	SPP0612B	—	—	—	0.612	15.5	0.250	6.4	1.000	25.4	1.000	25.4	200
SPP0640A	SPP0640C	5/8	3/4-10	—	0.640	16.3	0.375	9.5	1.000	25.4	1.000	25.4	100
SPP0700A	SPP0700C	11/16	—	—	0.700	17.8	0.375	9.5	1.250	31.8	1.326	33.7	100
SPP0770A	SPP0770C	3/4	—	M20	0.770	19.6	0.375	9.5	1.000	25.4	0.927	23.6	100
SPP0896A	SPP0896B	7/8	—	—	0.896	22.8	0.375	9.5	1.000	25.4	1.000	25.4	100
SPP1020A	SPP1020B	1	—	—	1.020	25.9	0.375	9.5	1.000	25.4	0.970	24.6	100
SPP1380A	SPP1380B	1-3/8	—	—	1.380	35.1	0.500	12.7	1.000	25.4	1.000	25.4	100

HIGH TEMPERATURE PLUGS

Flanged Pull Plugs

NEW



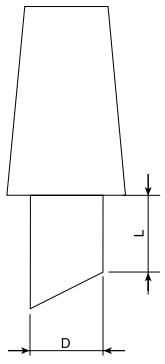
Specifications:
- Material: Silicone 600°F (315°C)
- Hardness: Durometer (Shore A) 40 ± 5
- Color: See Table

Features:
- Flanged Pull Plugs are designed to mask plain or threaded holes
- Different color per size allows color coding product for easy identification
- Parts are reusable
- Applications: Ideal for Powder Coating, E-Coating, Plating and Anodizing

Item No.	Color	A		B		C		D		E		F		G		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
1426297	Red	0.173	4.4	0.098	2.5	0.250	6.4	1.000	25.4	1.000	25.4	0.060	1.5	0.025	0.6	500
1426299	Blue	0.218	5.5	0.125	3.2	0.340	8.6	1.000	25.4	1.031	26.2	0.070	1.8	0.068	1.7	500
1426301	Grey	0.230	5.8	0.125	3.2	0.350	8.9	1.000	25.4	1.031	26.2	0.070	1.8	0.099	2.5	500
1426303	Yellow	0.285	7.2	0.160	4.1	0.400	10.2	1.000	25.4	1.062	27.0	0.070	1.8	0.098	2.5	500
1426305	Orange	0.335	8.5	0.160	4.1	0.460	11.7	1.000	25.4	1.031	26.2	0.070	1.8	0.128	3.3	500
1426307	Pink	0.350	8.9	0.187	4.7	0.473	12.0	1.000	25.4	1.062	27.0	0.070	1.8	0.148	3.8	500
1426309	Green	0.420	10.7	0.235	6.0	0.540	13.7	1.000	25.4	1.062	27.0	0.070	1.8	0.168	4.3	250
1426311	Purple	0.445	11.3	0.240	6.1	0.560	14.2	1.000	25.4	1.062	27.0	0.070	1.8	0.190	4.8	250
1426313	White	0.490	12.4	0.255	6.5	0.610	15.5	1.000	25.4	1.000	25.4	0.078	2.0	0.118	3.0	250
1426315	Grey	0.518	13.2	0.256	6.5	0.636	16.2	1.000	25.4	1.000	25.4	0.071	1.8	0.215	5.5	250
1426317	Rusty Red	0.545	13.8	0.275	7.0	0.663	16.8	1.000	25.4	1.000	25.4	0.071	1.8	0.138	3.5	250
1426319	Red	0.580	14.7	0.295	7.5	0.700	17.8	1.000	25.4	1.000	25.4	0.071	1.8	0.142	3.6	250

Sloping Edge Plugs

NEW



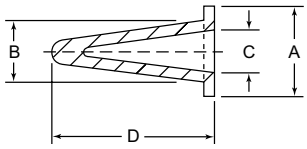
Specifications:
- Material: Silicone 600°F (315°C)
- Hardness: Durometer (Shore A) 55 ± 5
- Color: See Table

Features:
- Used to mask metric threaded holes
- Applied by placing the sloping end of the plug into the appropriate threaded hole, then screwing the plug into place until the whole thread is filled
- Easy removal by pulling on protruding plug
- Used to mask blind holes with limited access to the reverse side
- Parts are reusable
- Applications: Powder Coating, E-Coating, Plating and Anodizing

Item No.	Color	Fits Threaded Hole	D	L	Bulk Pack Qty.
			mm	mm	
1426343	Blue	M3	2.5	5.0	1000
1426345	Yellow	M4	3.4	6.7	1000
1426347	Black	M5	4.3	7.5	1000
1426349	Green	M6	5.1	7.5	1000
1426351	Orange	M8	6.9	10.0	500
1426353	Blue	M10	8.5	13.0	500
1426355	Grey	M12	10.5	14.5	250

HIGH TEMPERATURE PLUGS

SCON Series
Tapered Flexible Cone Plugs



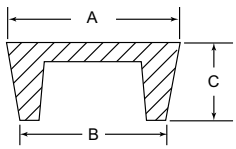
Specifications:
- Material: Natural Silicone 600°F (316°C)
  Hardness: Durometer (Shore A) 55 ± 5
- Material: Black EPDM 425°F (218°C)
  Hardness: Durometer (Shore A) 50 ± 5

See pages 87 and 88 for Application Wizards.

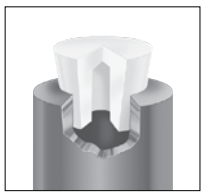
Features:
- The tapered cone design allows the part to plug multiple inner diameters or cap multiple outside diameters
- Silicone: premium masking material (due to high temperature rating) can be used multiple times
- EPDM: reusable, economical material with slightly reduced heat resistance, but superior chemical resistance
- Applications: Powder Coating, E-Coating, Plating and Anodizing

Item No.		A		B		C		D		Bulk Pack Qty.
Silicone (Natural)	EPDM (Black)	in	mm	in	mm	in	mm	in	mm	
SCON250130A	SCON250130B	0.500	12.7	0.250	6.3	0.130	3.3	0.906	23.0	1000
SCON316216A	SCON316216B	0.500	12.7	0.316	8.0	0.216	5.5	1.000	25.4	1000
SCON335177A	SCON335177C	0.625	15.9	0.335	8.5	0.177	4.5	1.000	25.4	1000
SCON394197A	SCON394197B	0.650	16.5	0.394	10.0	0.197	5.0	1.102	27.0	1000
SCON400230A	SCON400230B	0.635	16.1	0.400	10.2	0.230	5.8	1.100	27.9	1000
SCON551315A	SCON551315C	0.750	19.1	0.551	13.0	0.315	8.0	1.417	35.0	1000
SCON689453A	SCON689453C	0.980	24.9	0.689	17.5	0.453	11.5	1.500	38.1	250
SCON767532A	SCON767532B	1.100	27.9	0.767	19.5	0.532	13.5	2.009	51.0	200
SCON819583A	SCON819583C	1.000	25.4	0.819	20.8	0.583	14.8	1.929	48.0	200
SCON866630A	SCON866630C	1.220	30.0	0.866	21.0	0.630	16.0	2.087	53.0	200

HSTP Series
Hollow Tapered Masking Plugs



Specifications:
- Material: Natural Silicone 600°F (316°C)
  Hardness: Durometer (Shore A) 55 ± 5
- Material: Black EPDM 425°F (218°C)
  Durometer (Shore A) 50 ± 5



Features:
- Plugs threaded or unthreaded holes
- Hollow cores provide economical solution for large diameter holes
- Hollow core aids compression for improved sealing
- Silicone: premium masking material (due to high temperature rating) can be used multiple times
- EPDM: reusable, economical material with slightly reduced heat resistance, but superior chemical resistance
- Applications: Powder Coating, E-Coating, Plating and Anodizing
- For non-hollow Tapered Masking Plugs see STP Series on page 75

To Assure Proper Fit and Easy Handling:

Plugs

We suggest that you select "A" dimension to be approximately 15% larger than the hole diameter

Item No.		A		B		C		Bulk Pack Qty.
Silicone (Natural)	EPDM (Black)	in	mm	in	mm	in	mm	
HSTP079106A	HSTP079106C	1.061	27.0	0.797	20.3	1.000	25.4	200
HSTP109118A	HSTP109118C	1.181	30.0	1.094	27.8	1.000	25.4	50
HSTP118145A	HSTP118145C	1.456	37.0	1.180	30.0	1.000	25.4	50
HSTP122153A	HSTP122153C	1.535	39.0	1.220	31.0	1.000	25.4	50
HSTP130161A	HSTP130161C	1.614	41.0	1.300	33.0	1.000	25.4	50
HSTP141169A	HSTP141169C	1.693	43.0	1.417	36.0	1.000	25.4	50
HSTP145177A	HSTP145177C	1.772	45.0	1.457	37.0	1.000	25.4	50
HSTP149181A	HSTP149181C	1.810	46.0	1.496	38.0	1.000	25.4	50
HSTP165196A	HSTP165196C	1.968	50.0	1.653	42.0	1.000	25.4	25
HSTP177208A	HSTP177208C	2.086	53.0	1.770	45.0	1.000	25.4	25
HSTP189220A	HSTP189220C	2.203	56.0	1.890	48.0	1.000	25.4	25
HSTP196248A	HSTP196248C	2.480	63.0	1.968	50.0	1.000	25.4	25
HSTP212252A	HSTP212252C	2.520	64.0	2.125	54.0	1.000	25.4	25
HSTP228267A	HSTP228267C	2.677	68.0	2.283	58.0	1.000	25.4	25
HSTP244295A	HSTP244295C	2.953	75.0	2.440	62.0	1.377	35.0	25
HSTP295354A	HSTP295354D	3.543	90.0	2.953	75.0	1.535	39.0	25
HSTP326405A	HSTP326405C	4.055	103.0	3.267	83.0	1.535	39.0	20
HSTP354500A	HSTP354500C	5.000	127.0	3.543	90.0	1.968	50.0	10

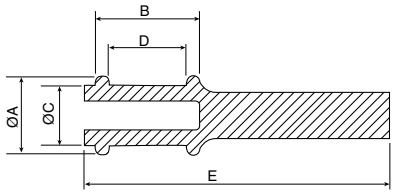
HIGH TEMPERATURE PLUGS

First and Last Thread Protection Plugs

NEW

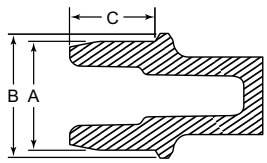
Specifications:
- Material: Silicone 600°F (315°C)
- Hardness: Durometer (Shore A) 40 ± 5
- Color: See Table

Features:
- Designed to protect weld nuts for various metric thread sizes
- Masks off the chamfer and protects both the first turn through the last turn of threads from contamination
- Will not blow out due to air pressure
- Parts are reusable
- Applications: Powder Coating, E-Coating, Plating and Anodizing



Item No.	Color	Thread Size	A		B		C		D		E		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	in	mm	
1426321	Black	M5	0.273	6.9	0.369	9.4	0.160	4.1	0.245	6.2	1.657	42.1	500
1426323	Green	M6	0.307	7.8	0.404	10.3	0.197	5.0	0.265	6.7	1.164	29.6	500
1426325	Red	M8	0.374	9.5	0.455	11.6	0.264	6.7	0.315	8.0	1.218	30.9	500
1426327	Green	M10	0.445	11.3	0.494	12.5	0.335	8.5	0.354	9.0	1.254	31.9	500
1426329	Purple	M12	0.512	13.0	0.597	15.2	0.406	10.3	0.457	11.6	1.612	40.9	250
1426331	White	M16	0.685	17.4	0.690	17.5	0.535	13.6	0.550	14.0	1.880	47.8	100
1426333	Blue	M20	0.827	21.0	0.850	21.6	0.669	17.0	0.709	18.0	2.162	54.9	100

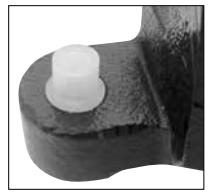
SPFT Series
First-Thread Protection Plugs



Specifications:
- Material: Natural Silicone 600°F (316°C)
  Hardness: Durometer (Shore A) 55 ± 5
- Material: Black EPDM 425°F (218°C)
  Hardness: Durometer (Shore A) 50 ± 5

See pages 87 and 88 for Application Wizards.

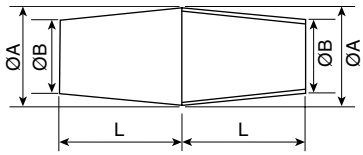
Features:
- Provides masking to the first thread of standard female threads
- Ergonomically-friendly pull tab for simple installation and removal
- Silicone: premium masking material (due to high temperature rating) can be used multiple times
- EPDM: reusable, economical material with slightly reduced heat resistance, but superior chemical resistance
- Applications: Powder Coating, E-Coating, Plating and Anodizing



Item No.		Thread Size		A		B		C		Bulk Pack Qty.
Silicone	EPDM	UNC	M	in	mm	in	mm	in	mm	
SPFT1/4A	**SPFT1/4B**	1/4-20	—	0.218	5.5	0.260	6.6	0.200	5.1	500
SPFT5/16A	**SPFT5/16B**	5/16-18	—	0.278	7.1	0.320	8.1	0.200	5.1	500
SPFT3/8A	**SPFT3/8B**	3/8-16	—	0.340	8.6	0.420	10.7	0.260	6.6	250
SPFT7/16A	**SPFT7/16B**	7/16-14	—	0.392	10.0	0.440	11.2	0.350	8.9	250
SPFT1/2A	**SPFT1/2B**	1/2-13	—	0.451	11.5	0.510	13.0	0.350	8.9	250
SPFTM6A	**SPFTM6B**	—	M6	0.208	5.3	0.248	6.3	0.197	5.0	500
SPFTM8A	**SPFTM8B**	—	M8	0.283	7.2	0.331	8.4	0.197	5.0	500
SPFTM10A	**SPFTM10B**	—	M10	0.358	9.1	0.409	10.4	0.276	7.0	250
SPFTM12A	**SPFTM12B**	—	M12	0.426	10.8	0.489	12.4	0.346	8.8	250
SPFTM16A	**SPFTM16B**	—	M16	0.570	14.5	0.670	17.0	0.450	11.4	100
SPFTM20A	**SPFTM20B**	—	M20	0.724	18.4	0.811	20.6	0.512	13.0	100

HIGH TEMPERATURE PLUGS

Dual Purpose Plugs

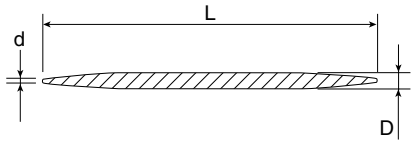


Specifications:
- Material: Silicone 600°F (315°C)
- Hardness: Durometer (Shore A) 40 ± 5
- Color: See Table

Features:
- Designed to plug both square or round threaded or unthreaded holes
- Will mask off the hole and allow finishing up to it
- Tapered to fit into a range of round or square hole sizes
- Parts are reusable
- Applications: Powder Coating, E-Coating, Plating and Anodizing

Item No.	Color	A		B		L		R		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	
1426335	Blue	0.500	12.7	0.375	9.5	0.625	15.9	0.02	0.5	250
1426337	Green	0.625	15.9	0.500	12.7	0.750	19.1	0.02	0.5	100
1426339	Black	0.750	19.1	0.625	15.9	0.750	19.1	0.03	0.8	100
1426341	Red	1.000	25.4	0.875	22.2	1.000	25.4	0.04	1.0	50

Mousetail Pull Plugs



Specifications:
- Material: Silicone 600°F (315°C)
- Hardness: Durometer (Shore A) 75 ± 5
- Color: Natural

Features:
- Ideal for plugging small holes
- Capable of stretching to provide a leak-proof seal
- Parts are reusable
- Applications: Powder Coating, E-Coating, Plating and Anodizing

Item No.	D		d		L		Bulk Pack Qty.
	in	mm	in	mm	in	mm	
1426357	0.079	2.0	0.022	0.6	1.330	33.8	1000
1426359	0.080	2.0	0.023	0.6	2.080	52.8	1000
1426361	0.083	2.1	0.031	0.8	1.930	49.0	1000
1426363	0.100	2.5	0.031	0.8	2.080	52.8	1000
1426365	0.125	3.2	0.023	0.6	2.000	50.8	1000

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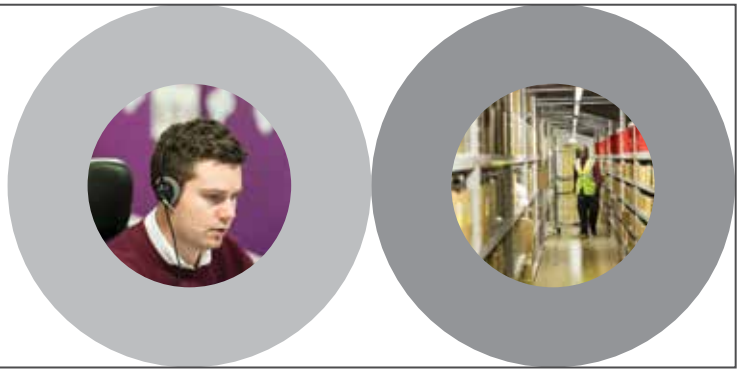
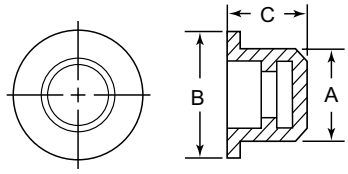


HIGH TEMPERATURE PLUGS / MASKING TAPES

FT Series
TPE Plugs



Specifications:
- Material: Thermoplastic Elastomer 203°F (95°C)
- Color: Black

Features:
- Highly resistant to shredding
- Ideal for threaded applications
- Good resistance to acids

Item No.	A		B		C		Bulk Pack Qty.
	in	mm	in	mm	in	mm	
18071B	0.125	3.20	0.276	7.00	0.354	9.00	10000
12049B	0.197	5.00	0.433	11.00	0.471	11.99	10000
12050B	0.236	5.99	0.472	11.99	0.471	11.99	10000
12051B	0.275	6.99	0.511	12.98	0.471	11.99	10000
12052B	0.315	8.00	0.551	14.00	0.471	11.99	10000
12053B	0.354	8.99	0.580	14.99	0.471	11.99	10000
12054B	0.393	9.98	0.629	15.98	0.471	11.99	10000
12055B	0.433	11.00	0.669	16.99	0.471	11.99	10000
12056B	0.472	11.99	0.787	19.99	0.471	11.99	8000
12057B	0.511	12.98	0.826	20.98	0.551	14.00	8000
12058B	0.551	14.00	0.866	22.00	0.551	14.00	6000
12059B	0.580	14.99	0.905	22.99	0.571	14.50	6000
12060B	0.630	16.00	0.945	24.00	0.551	14.00	6000
FLP17A	0.669	17.00	1.063	27.00	0.531	13.50	4000
12062B	0.709	18.01	1.102	27.99	0.551	14.00	4000
12063B	0.748	19.00	1.142	29.01	0.551	14.00	4000
12064B	0.787	19.99	1.181	30.00	0.551	14.00	4000
12065B	0.827	21.01	1.220	30.99	0.551	14.00	3000
FLP21A	0.879	22.33	1.260	32.00	0.551	14.00	2500
12067B	0.906	23.01	1.299	32.99	0.630	16.00	3000
12068B	0.945	24.00	1.339	34.01	0.630	16.00	2500
12069B	0.984	24.99	1.378	35.00	0.630	16.00	2000
12070B	1.024	26.01	1.417	35.99	0.630	16.00	2000
12071B	1.063	27.00	1.457	37.01	0.630	16.00	2000
12072B	1.102	27.99	1.496	38.00	0.630	16.00	2000
12073B	1.142	29.01	1.535	38.99	0.630	16.00	1300
FLP30A	1.190	30.23	1.400	35.56	0.630	16.00	1500
12501B	1.575	40.01	1.969	50.01	0.866	22.00	700
12502B	1.850	46.99	2.244	57.00	0.866	22.00	500

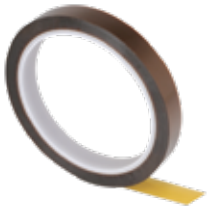
MTS Series
Self-Bonding Silicone Tapes

Specifications:
- Material: Silicone on a Mylar film
- Color: Red
- Termperature Range: –65°F to 500°F (–54°C to 260°C)

Features:
- Self-bonding – no adhesive (sticks only to itself)
- Form fitting, making it an excellent solution for odd shapes
- Waterproof seal after 24-hour self-bonding cure
- Excellent electrical properties: dielectric strength of 300 VPM min at 356°F
- Applications: High Temperature Cures, Powder Coating, E-Coating, Plating, Anodizing and Electrical Harness Wrapping

Item No.	Roll Width		Roll Length		Thickness Mils
	in	mm	yds	m	
MTS2010A	1	25.40	12	11	20
MTS4010A	1	25.40	12	11	40

MTK Series
Polyimide Tapes



Specifications:

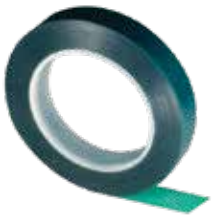
- Material: 1-Mil Polyimide Film with Silicone Adhesive
- Temperature Rating: 500°F (260°C)
- Color: Amber

Features:

- Excellent heat and solvent resistance, dielectric strength (6500 volts) and highly conformable
- Cleanly removes in one piece after use
- Applications: High Temperature Processes, Powder Coating, Soldering, Electrical Insulation and PC Boards

Item No.	Roll Width		Roll Length		Pack Qty.
	in	mm	yds	m	
MTK0102A	1/4	6.4	36	32.9	1
MTK0103A	3/8	9.5	36	32.9	1
MTK0105A	1/2	12.7	36	32.9	1
MTK0107A	3/4	19.1	36	32.9	1
MTK0110A	1	25.4	36	32.9	1
MTK0115A	1 - 1/2	38.1	36	32.9	1
MTK0120A	2	50.8	36	32.9	1
MTK0130A	3	76.2	36	32.9	1
MTK0140A	4	101.6	36	32.9	1

MTP Series
Green Polyester Tapes



Specifications:

- Material: 2-Mil Polyester Film with Silicone Adhesive
- Temperature Rating: 400°F (204°C)
- Color: Green

Features:

- Excellent heat and solvent resistance
- Industry standard
- No shrinkage
- Cleanly removes in one piece after use, without leaving residue
- Applications: Powder Coating, E-Coating, Plating and Anodizing

Item No.	Roll Width		Roll Length		Pack Qty.
	in	mm	yds	m	
MTP0202A	1/4	6.4	72	65.8	1
MTP0203A	3/8	9.5	72	65.8	1
MTP0205A	1/2	12.7	72	65.8	1
MTP0206A	5/8	12.7	72	65.8	1
MTP0207A	3/4	19.1	72	65.8	1
MTP0208A	7/8	22.2	72	65.8	1
MTP0210A	1	25.4	72	65.8	1
MTP0215A	1 - 1/2	38.1	72	65.8	1
MTP0220A	2	50.8	72	65.8	1
MTP0230A	3	76.2	72	65.8	1
MTP0240A	4	101.6	72	65.8	1
MTP0250A	5	127.0	72	65.8	1
MTP0260A	6	152.4	72	65.8	1

MTHC Series
High Temperature Crepe Tapes

Specifications:

- Material: 7.3-Mil Crepe Tape with High Temperature Rubber Adhesive
- Temperature Rating: 325°F (163°C)
- Color: Tan

Features:

- A thick pressure sensitive masking tape that is easy to apply and remove with clean lines
- Best removed when it is warm or hot, but can also be removed when cold
- Applications: Low Temperature Liquid and Powder Coatings

Item No.	Roll Width		Roll Length		Pack Qty.
	in	mm	yds	m	
MTHC0025A	1/4	6.4	60	54.9	1
MTHC0037A	3/8	9.5	60	54.9	1
MTHC0050A	1/2	12.7	60	54.9	1
MTHC0062A	5/8	12.7	60	54.9	1
MTHC0075A	3/4	19.1	60	54.9	1
MTHC0087A	7/8	22.2	60	54.9	1
MTHC0100A	1	25.4	60	54.9	1
MTHC0150A	1 - 1/2	38.1	60	54.9	1
MTHC0200A	2	50.8	60	54.9	1
MTHC0250A	2 - 1/2	63.5	60	54.9	1
MTHC0300A	3	76.2	60	54.9	1
MTHC0400A	4	101.6	60	54.9	1
MTHC0500A	5	127.0	60	54.9	1
MTHC0600A	6	152.4	60	54.9	1

MASKING DISCS

MTPD Series
Green Polyester Discs

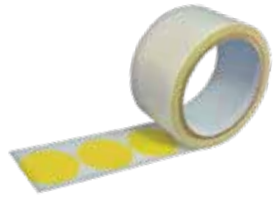
Specifications:
- Material: 2-Mil Polyester Film with 1.4 Mils of Silicone Adhesive
- Temperature Rating: 400°F (204°C)
- Color: Green

Features:
- Excellent heat and solvent resistance
- Industry standard product
- No shrinkage
- Supplied with split-back liner for easy removal from roll (unless marked*)
- Cleanly removes in one piece after use, without leaving residue
- Applications: Powder Coating, E-Coating, Plating and Anodizing

Item No.	Disc Diameter in		Disc Diameter mm	Discs Per Roll
MTPD020187A	0.187	3/16	4.75	5000
MTPD020250A	0.250	1/4	6.35	5000
MTPD020312A	0.312	5/16	7.92	5000
MTPD020375A	0.375	3/8	9.53	5000
MTPD020406A	0.406	13/32	10.31	5000
MTPD020437A	0.437	7/16	11.10	5000
MTPD020500A	0.500	1/2	12.70	2500
MTPD020562A	0.562	9/16	14.27	2500
MTPD020625A	0.625	5/8	15.88	2000
MTPD020687A	0.687	11/16	17.45	2000
MTPD020750A	0.750	3/4	19.05	2000
MTPD020781A	0.781	25/32	19.84	4000
MTPD020787A	0.787	—	20.00	4000
MTPD020812B	0.812	13/16	20.63	1000
MTPD020875A	0.875	7/8	22.23	2000
MTPD020937A	0.937	15/16	23.80	2000
MTPD021000A	1.000	1	25.40	500
MTPD021062A	1.062	1 - 1/16	26.95	2000
MTPD021125A	1.125	1 - 1/8	28.58	1000
MTPD021188A	1.188	1 - 3/16	30.18	1000
MTPD021250A	1.250	1 - 1/4	31.75	1000

Item No.	Disc Diameter in		Disc Diameter mm	Discs Per Roll
MTPD021312A	1.312	1 - 5/16	33.32	1000
MTPD021375A	1.375	1 - 3/8	34.93	1000
MTPD021500A	1.500	1 - 1/2	38.10	1000
MTPD021562A*	1.562	1 - 9/16	39.67	1000
MTPD021625A	1.625	1 - 5/8	41.28	1000
MTPD021750A	1.750	1 - 3/4	44.45	1000
MTPD021875A	1.875	1 - 7/8	47.63	1000
MTPD022000A	2.000	2	50.80	500
MTPD022125A	2.125	2 - 1/8	53.98	500
MTPD022250A	2.250	2 - 1/4	57.15	500
MTPD022375A	2.375	2 - 3/8	60.33	500
MTPD022500A	2.500	2 - 1/2	63.50	500
MTPD022750A	2.750	2 - 3/4	69.85	500
MTPD023000A	3.000	3	76.20	500
MTPD023250A	3.250	3 - 1/4	82.55	500
MTPD023500A	3.500	3 - 1/2	88.90	500
MTPD023625A	3.625	3 - 5/8	92.08	500
MTPD023750A	3.750	3 - 3/4	95.25	100
MTPD024000A	4.000	4	101.60	250
MTPD025000A	5.000	5	127.00	250
MTPD026000A	6.000	6	152.40	250

MTHCD Series
High Temperature Crepe Discs



Specifications:
- Material: 7.3-Mil Crepe Tape with High-Temperature Rubber Adhesive
- Temperature Rating: 325°F (163°C)
- Color: Tan

Features:
- A thick pressure sensitive masking tape that is easy to apply and remove with clean lines
- Best removed when warm or hot, but can be removed when cold
- Applications: low-temperature paints and powder coatings

Item No.	Disc Diameter in		Disc Diameter mm	Discs Per Roll
MTHCD0250A	0.250	1/4	6.35	5000
MTHCD0375A	0.375	3/8	9.53	5000
MTHCD0500A	0.500	1/2	12.70	5000
MTHCD0625A	0.625	5/8	15.88	5000
MTHCD0750A	0.750	3/4	19.05	4000
MTHCD0875A	0.875	7/8	22.23	2000
MTHCD1000A	1.000	1	25.40	2000
MTHCD1125A	1.125	1 - 1/8	28.58	2000

Item No.	Disc Diameter in		Disc Diameter mm	Discs Per Roll
MTHCD1250A	1.250	1 - 1/4	31.75	2000
MTHCD1375A	1.375	1 - 3/8	34.93	2000
MTHCD1500A	1.500	1 - 1/2	38.10	2000
MTHCD1625A	1.625	1 - 5/8	41.28	1000
MTHCD1750A	1.750	1 - 3/4	44.45	1000
MTHCD1875A	1.875	1 - 7/8	47.63	1000
MTHCD2000A	2.000	2	50.80	500

MTKD Series
Polyimide Discs

Specifications:
- Material: 1-Mil Polyimide Film with Silicone Adhesive
- Temperature Rating: 500°F (260°C)
- Color: Amber

Features:
- Excellent heat and solvent resistance, dielectric strength (6500 volts) and highly conformable
- Cleanly removes in one piece after use
- Applications: high-temperature processes, powder coating, soldering, electrical insulation and PC boards

Item No.	Disc Diameter in		Disc Diameter mm	Discs Per Roll
MTKD010187A	0.187	3/16	4.75	5000
MTKD010250A	0.250	1/4	6.35	5000
MTKD010312A	0.312	5/16	7.92	5000
MTKD010375A	0.375	3/8	9.53	5000
MTKD010437A	0.437	7/16	11.10	5000
MTKD010500A	0.500	1/2	12.70	2500
MTKD010562A	0.562	9/16	14.27	2500
MTKD010625A	0.625	5/8	15.88	2000
MTKD010687A	0.687	11/16	17.45	2000
MTKD010750A	0.750	3/4	19.05	2000
MTKD010875A	0.875	7/8	22.23	2000
MTKD011000A	1.000	1	25.40	2000

Item No.	Disc Diameter in		Disc Diameter mm	Discs Per Roll
MTKD011125A	1.125	1 - 1/8	28.58	1000
MTKD011188A	1.188	1 - 3/16	30.18	1000
MTKD011250A	1.250	1 - 1/4	31.75	1000
MTKD011375A	1.375	1 - 3/8	34.93	1000
MTKD011500A	1.500	1 - 1/2	38.10	1000
MTKD011625A	1.625	1 - 5/8	41.28	1000
MTKD011750A	1.750	1 - 3/4	44.45	1000
MTKD011875A	1.875	1 - 7/8	47.63	1000
MTKD012000A	2.000	2	50.80	500
MTKD012500A	2.500	2 - 1/2	63.50	500
MTKD013000A	3.000	3	76.20	500
MTKD014000A	4.000	4	101.60	250

HV, HS and HC Series
V, S and C Style Hooks

HV Series

HS Series

HC Series

Specifications:
- Material: Cold Drawn Spring Steel

Features:
- The HV-style hook design retains its ground longer
- The HS-style and HC-style hooks are ideal for wider parts or multiple styles of parts with varying thicknesses

HC Style		HS Style		HV Style		Length		Wire Size		Capacity (Approx)	
Item No.	Bulk Pack Qty.	Item No.	Bulk Pack Qty.	Item No.	Bulk Pack Qty.	in	mm	in	mm	lbs	kgs
—	—	—	—	HV2044A	3000	2	50.8	0.044	1.1	4	1.8
HC2062A	3000	HS2062A	3000	HV2062A	3000	2	50.8	0.062	1.6	8	3.6
HC2076A	3000	HS2076A	3000	HV2076A	3000	2	50.8	0.076	1.9	20	9.1
HC3044A	3000	HS3044A	3000	—	—	3	76.2	0.044	1.1	4	1.8
HC3062A	3000	HS3062A	3000	HV3062A	3000	3	76.2	0.062	1.6	8	3.6
HC3076A	2000	HS3076A	2000	HV3076A	2000	3	76.2	0.076	1.9	20	9.1
HC4044A	2000	HS4044A	2000	HV4044A	2000	4	101.6	0.044	1.1	4	1.8
HC4062A	2000	HS4062A	2000	HV4062A	2000	4	101.6	0.062	1.6	8	3.6
HC4076A	1000	HS4076A	1000	HV4076A	1000	4	101.6	0.076	1.9	20	9.1
HC4120A	2000	HS4120A	2000	HV4120A	2000	4	101.6	0.120	3.0	40	18.1
HC4180A	500	HS4180A	500	HV4180A	1000	4	101.6	0.180	4.6	80	36.3
—	—	—	—	HV6044A	1000	6	152.4	0.044	1.1	4	1.8
HC6062A	1000	HS6062A	1000	HV6062A	1000	6	152.4	0.062	1.6	8	3.6
HC6076A	1000	HS6076A	1000	HV6076A	1000	6	152.4	0.076	1.9	20	9.1
HC6120A	1000	HS6120A	1000	HV6120A	1000	6	152.4	0.120	3.0	40	18.1
HC6180A	500	HS6180A	500	HV6180A	500	6	152.4	0.180	4.6	80	36.3
HC8076A	1500	HS8076A	1000	HV8076A	500	8	203.2	0.076	1.9	20	9.1
HC8120A	500	HS8120A	500	HV8120A	500	8	203.2	0.120	3.0	40	18.1
HC8180A	250	HS8180A	250	HV8180A	250	8	203.2	0.180	4.6	80	36.3
HC10076A	500	HS10076A	500	HV10076A	500	10	254.0	0.076	1.9	20	9.1
—	—	HS10120A	500	HV10120A	500	10	254.0	0.120	3.0	40	18.1
HC10180A	250	HS10180A	250	HV10180A	250	10	254.0	0.180	4.6	80	36.3
HC12076A	500	HS12076A	500	HV12076A	500	12	304.8	0.076	1.9	20	9.1
—	—	HS12120A	500	HV12120A	500	12	304.8	0.120	3.0	40	18.1
HC12180A	250	HS12180A	250	HV12180A	250	12	304.8	0.180	4.6	80	36.3
HC15076A	500	—	—	HV15076A	500	15	381.0	0.076	1.9	20	9.1
—	—	HS15120A	500	HV15120A	500	15	381.0	0.120	3.0	40	18.1
—	—	—	—	HV18076A	500	18	457.2	0.076	1.9	20	9.1
—	—	—	—	HV18120A	250	18	457.2	0.120	3.0	40	18.1
HC24120A	250	—	—	—	—	24	609.6	0.120	3.0	40	18.1
—	—	HS24180A	250	—	—	24	609.6	0.180	4.6	80	36.3

HCV, HVSQ and HV90°
CV, V90° and V (Square Bar Stock) Style Hooks

HCV Series

HV-90° Series

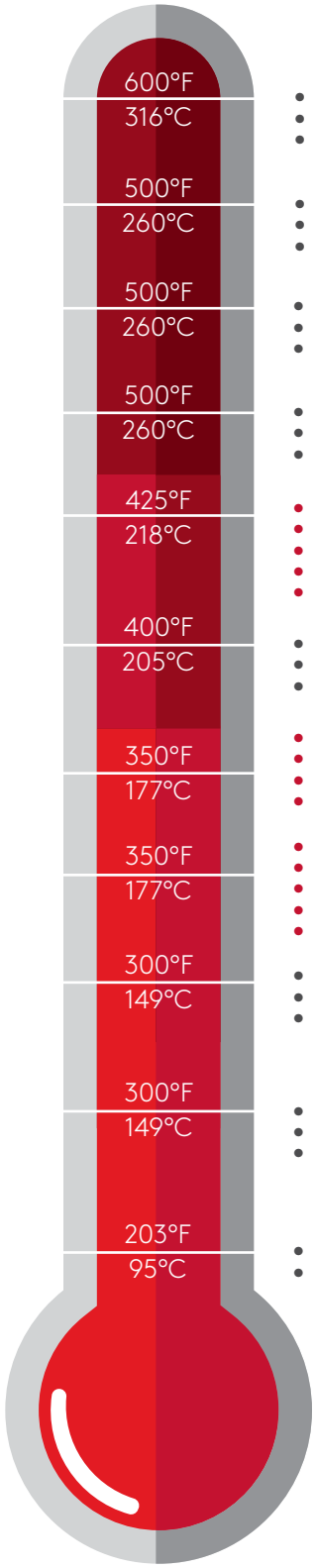
HVSQ Series

Specifications:
- Material: Cold Drawn Spring Steel

Features:
- The HCV-style hooks are ideal for wider parts or multiple styles of parts with varying thickness
- The HVSQ-style hooks are designed for heavy products and manufactured out of square bar stock
- The HV90°-style hooks are used for maximum load bearing and repeated usage

HCV Style		HV-90 Style		HVSQ Style		Length		Wire Size		Holding Capacity (Approx)	
Item No.	Bulk Pack Qty.	Item No.	Bulk Pack Qty.	Item No.	Bulk Pack Qty.	in	mm	in	mm	lbs	kgs
HCV4I20A	2000	HV904120A	2000	—	—	4	101.6	0.120	3.0	40	18.1
HCV4180A	500	HV904180A	500	—	—	4	101.6	0.180	4.6	80	36.3
—	—	—	—	HVSQ4250A	250	4	101.6	0.250	6.4	220	100.0
HCV6076A	1000	—	—	—	—	6	152.4	0.076	1.9	20	9.1
HCV6120A	1000	HV906120A	1000	—	—	6	152.4	0.120	3.0	40	18.1
HCV6180A	500	HV906180A	500	—	—	6	152.4	0.120	3.0	40	18.1
HCV8180A	250	HV908180A	250	—	—	8	203.2	0.180	4.6	80	36.3
—	—	—	—	HVSQ8250A	250	8	203.2	0.250	6.4	220	100.0
HCV10120A	1000	HV9010120A	500	—	—	10	254.0	0.120	3.0	40	18.1
HCV10180A	500	HV9010180A	500	—	—	10	254.0	0.180	4.6	80	36.3
HCV12076A	500	—	—	—	—	12	304.8	0.076	1.9	20	9.1
HCV12120A	500	HV9012120A	500	—	—	12	304.8	0.120	3.0	40	18.1
HCV12180A	500	HV9012180A	250	—	—	12	304.8	0.180	4.6	80	36.3
HCV15076A	500	—	—	—	—	15	381.0	0.076	1.9	20	9.1
HCV15120A	500	HV9015120A	500	—	—	15	381.0	0.120	3.0	40	18.1
—	—	—	—	HVSQ16250A	125	16	406.4	0.250	6.4	220	100.0
—	—	HV9018120A	250	—	—	18	457.2	0.120	3.0	40	18.1
HCV18180A	250	—	—	—	—	18	457.2	0.180	4.6	80	36.3
—	—	—	—	HVSQ24250A	125	24	609.6	0.250	6.4	220	100.0

MASKING MATERIAL OPTIONS



Silicone

- Premium Reusable Material
- 55±5 Durometer (Shore A)
- Caps, Plugs and Tubing

Polyimide

- Premium Masking Tape and Disc
- Silicone Adhesive for Easy Removal
- Excellent Solvent and Electrical Properties

Silicone Tape

- Self Bonding – Sticks Only to Itself
- Perfect for Difficult to Mask Shapes
- Forms Water Tight Seal

Glass Cloth

- Durable Fiberglass with Silicone Adhesive
- Perfect for Blasting or Thick Coatings
- Tape

Soft High Temp Vinyl

- Low Cost Single – Use Material
- Use to Mask – Leave On for Shipping
- Multiple Diameters, Lengths and Styles
- 85±2 Durometer (Shore A)
- Caps

Polyester

- Industry Standard for Tape and Discs
- Silicone Adhesive for Easy Removal
- No Shrinkage

EPDM

- Save Up To 30% Over Silicone
- Reusable Material
- All Sizes in Stock
- Caps and Plugs

Standard Vinyl

- Low Cost Single-Use Material
- Caps
- Use to Mask – Leave On for Shipping
- Multiple Diameters, Lengths and Styles
- 75 or 63 Durometer

Nylon

- Material Bonds With Paint – Resistant to Flaking
- Ideal for UNC and Metric Threaded Applications
- Prevents Popping Off Due to Pressure

High Temp Crepe

- Special High Temp Formula
- Rubber Adhesive for Easy Removal
- Tapes and Discs

Thermoplastic Elastomer (TPE)

- Good Resistance to Acids
- Caps and Plugs

Chart is a guide for typical applications for masking products. Due to the number of variables in each process, some products may not work for the application shown above, we recommend sampling to ensure. Material data contained in this chart is for reference only. Essentra Components reserves the right to change this information at any time without notification. Please consult factory for more information.

*Silicone and EPDM products can be used above rated temp in some applications.

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Material Selection by Process

Chart is a guide for typical applications for masking products. Due to the number of variables in each process, some products may not work for the application shown, we recommend sampling to ensure.

*Silicone and EPDM products can be used above rated temp in some applications.

Material	Powder Coating	E-Coating	Anodizing	Plating	Wet Paint	Blasting	PC Boards
Silicone*	X	X	X	X	X	X	
Polyimide	X	X	X	X	X		X
Silicone Tape	X	X	X	X	X		
Glass Cloth	X	X			X	X	
EPDM*	X	X	X	X	X	X	
High Temp Vinyl	X	X	X	X	X		
Polyester	X	X	X	X	X		
High Temp Crepe	X				X		

Caps for Threaded and Unthreaded Studs

Silicone and EPDM End Caps Page 70

High Temp Vinyl End Caps Page 68-69

High Temp Vinyl Pull Caps Page 71

Silicone Tubing Page 73

Your Application							
Unthreaded Stud (in)	Thread Size UNC	Thread Size Metric	Silicone End Caps 600°F (315°C)	EPDM End Caps 425°F (218°C)	High Temp Vinyl End Caps 425°F (218°C)	High Temp Vinyl Pull Caps 425°F (218°C)	Silicone Tubing 600°F (315°C)
—	2 - 56	M2	SC007010A	SC007010B	—	—	-
3/32	3 - 48	—	SC009307A	SC009307B	DM0093-1/2B	—	-
—	4 - 40	—	SC010010A	SC010010C	—	—	STFL011020A
—	5 - 40	M3	SC010907A	SC010907C	DM0110-1/2	—	STFL011020A
1/8	6 - 32	—	SC012510A	SC012510C	DM0125-1/2D	—	STFL011020A
—	—	M4	SC014810A	SC014810C	DM0148-1/2B	—	STFL011020A
5/32	8 - 32	M4	SC015610A	SC015610C	DM0156-1/2E	—	STFL011020A
—	10 - 24	—	SC017210A	SC017210B	DM0172-1/2D	—	STFL011020A
3/16	12 - 24	M5	SC018710A	SC018710B	DM0187-1/2C	DMPC0180-1/2B	STFL0108028A
—	—	—	SC022310A	SC022310B	DM0224-1/2B	—	STFL0108028A
—	1/4	M6	SC023410A	SC023410C	DM0234-1/2D	—	STFL0108028A
1/4	—	—	SC025010A	SC025010C	DM0250-1D	DMPC0240-1C	STFL0108028A
9/32	5/16	—	SC028110A	SC028110B	DM0281-1C	—	STFL025037A
—	—	M8	SC029510A	SC029510B	DM0304-1C		STFL025037A
5/16	—	—	SC031210A	SC031210C	DM0313-1F	DMPC0302-1D	STFL025037A
—	3/8	—	SC035515A	SC035515B	DM0360-1/2C	—	STFL033045A
3/8	—	M10	SC037510A	SC037510B	DM0375-1/2C	DMPC0365-1G	STFL033045A
13/32	7/16	—	SC040610A	SC040610B	DM0406-1E	DMPC0396-1D	STFL042055A
7/16	—	—	SC043710A	SC043710B	DM0437-1/2J	DMPC0427-1G	STFL042055A
—	—	M12	SC045615A	SC045615B	DM0460-1/2B	—	STFL042055A
—	1/2	—	SC048015A	SC048015B	DM0490-1B	—	STFL042055A
1/2	—	—	SC050015A	SC050015C	DM0500-1D	DMPC0490-1F	STFL042055A
—	9/16	M14	SC053515A	SC053515B	DM0531-1C	—	STFL042055A
9/16	—	M15	SC056215A	SC056215B	DM0562-1D	DMPC0552-1C	STFL050062A
—	5/8	—	SC060015A	SC060015C	DM0600-1B	—	STFL050062A
5/8	—	M17	SC062515A	SC062515B	DM0625-1F	DMPC0625-1E	STFL050062A
11/16	—	—	SC068715A	SC068715B	DM0687-1D	DMPC0687-1E	STFL062075A
—	3/4	M19	SC073015A	SC073015B	DM0750-1F	DMPC0740-1D	STFL062075A
3/4	—	—	SC075015A	SC075015B	DM0750-1F	DMPC0740-1D	STFL062075A
13/16	—	—	SC081215A	SC081215B	DM0812-1D	DMPC0812-1C	STFL072087A
7/8	—	—	SC087515A	SC087515B	DM0875-1D	DMPC0865-1B	STFL072087A
15/16	—	M24	SC093715A	SC093715B	DM0937-1J	DMPC0937-1B	STFL085100A
—	1	—	SC097015A	SC097015B	DM0985-1B	—	STFL085100A
1	—	M27	SC100015A	SC100015B	DM1000-1E	DMPC0990-1B	STFL085100A
1 - 1/16	—	—	SC106215A	SC106215B	DM1062-1D	DMPC1060-1D	STFL085100A
1 - 1/8	—	M30	SC112515A	SC112515B	DM1125-1D	DMPC1125-1B	ST1125A
1 - 3/16	—	—	SC118715A	SC118715B	DM1187-1B	—	—
1 - 1/4	1 - 1/4	M33	SC125015A	SC125015B	DM1250-1D	DMPC1230-1B	ST1250A
1 - 5/16	—	—	—	—	DM1312-1B	—	—
1 - 3/8	—	—	—	—	DM1375-1D	—	ST1375A
1 - 7/16	—	—	—	—	DM1437-1B	DMPC1437-1B	—
1 - 1/2	1 - 1/2	M39	SC150017A	SC150017B	DM1500-1C	DMPC1500-1B	ST1500A
1 - 5/8	—	—	SC162520A	SC162520B	DM1625-1H	DMPC1605-1B	ST1625A
1 - 11/16	—	—	—	—	DM1687-1B	—	—
1 - 3/4	1 - 3/4	—	SC175020A	SC175020B	DM1750-1D	—	ST1750A
1 - 13/16	—	—	—	—	DM1812-1B	—	—
1 - 7/8	—	—	SC187520A	SC187520B	DM1875-1D	—	ST1875A
1 - 15/16	—	—	—	—	DM1937-1B	—	—
2	2	—	SC200020A	SC200020B	DM2000-1B	—	ST2000A

APPLICATION WIZARDS

Masking Plug Selection Guide for Unthreaded ID's

Silicone and EPDM Tapered Plugs
Page 75

Silicone and EPDM Flangeless Plugs
Page 76

Silicone and EPDM Cone Plugs
Page 79

Your Application			Silicone Tapered Plug 600°F (315°C)		EPDM Tapered Plug 425°F (218°C)		Silicone Flangeless Plug 600°F (315°C)	EPDM Flangeless Plug 425°F (218°C)	Silicone Cone Plugs 600°F (315°C)	EPDM Cone Plugs 425°F (218°C)
Inches	Decimal	mm								
1/8	0.125	3.17	STP004019-11A		STP004019-11B		—	—	SCON250130A	SCON250130B
3/16	0.187	4.75	STP004019-11A		STP004019-11B		SFP157236A	SFP157236B	SCON250130A	SCON250130B
1/4	0.250	6.35	STP018034A		STP018034D		SFP236315A	SFP236315D	SCON250130A	SCON250130B
5/16	0.312	7.92	STP018034A		STP018034D		SFP236315A	SFP236315D	SCON316216A	SCON316216B
3/8	0.375	9.53	STP025043A		STP025043C		SFP315394A	SFP315394C	SCON394197A	SCON394197B
7/16	0.437	11.10	STP035047A		STP025043C		SFP394472A	SFP394472C	SCON551315A	SCON551315C
1/2	0.500	12.70	STP039059A		STP039059B		SFP472551A	SFP472551B	SCON551315A	SCON551315C
9/16	0.562	14.27	STP039059A		STP039059B		SFP551630A	SFP551630C	SCON689453A	SCON689453C
5/8	0.625	15.88	STP051067A		STP051067E		SFP415641A	SFP415641B	SCON689453A	SCON689453C
11/16	0.687	17.45	STP055075A		STP055075D		SFP630709A	SFP630709C	SCON689453A	SCON689453C
3/4	0.750	19.05	STP062078A		STP062078D		SFP709787A	SFP709787C	SCON767532A	SCON767532B
13/16	0.812	20.62	STP071094A		STP071094C		SFP787886A	SFP787886B	SCON819583A	SCON819583C
7/8	0.875	22.23	STP071094A		STP071094C		SFP787886A	SFP787886B	—	—
15/16	0.937	23.80	STP075094A		STP075094C		SFP886945A	SFP886945C	—	—
1	1.000	25.40	STP090106A		STP090106C		SFP9541024A	SFP9541024B	—	—
1-1/16	1.062	26.97	STP094110A		STP094110C		SFP8681094A	SFP8681094B	—	—
1-1/8	1.125	28.58	STP102126A		STP102126B		SFP10001125A	SFP10001125B	—	—
1-3/16	1.187	30.15	STP102126A		STP102126B		SFP11251250A	SFP11251250B	—	—
1-1/4	1.250	31.75	STP106134A		STP106134B		SFP10941320A	SFP10941320B	—	—
1-5/16	1.312	33.32	STP106134A		STP106134B		SFP10941320A	SFP10941320B	—	—
1-3/8	1.375	34.93	STP118145A	H	STP118145B	H	SFP13201547A	SFP13201547B	—	—
1-7/16	1.437	36.50	STP118145A	H	STP118145B	H	SFP13201547A	SFP13201547B	—	—
1-1/2	1.500	38.10	STP122153A	H	STP122153B	H	SFP13201547A	SFP13201547B	—	—
1-9/16	1.562	39.67	STP130161A	H	STP130161B	H	SFP15471774A	SFP15471774B	—	—
1-5/8	1.625	41.28	STP141169A	H	STP141169C	H	SFP15471774A	SFP15471774B	—	—
1-11/16	1.687	42.85	STP145177A	H	STP145177C	H	SFP15471774A	SFP15471774B	—	—
1-3/4	1.750	44.45	STP149181A	H	STP149181C	H	SFP15471774A	SFP15471774B	—	—
1-13/16	1.812	46.02	STP165196A	H	STP165196B	H	SFP15471774A	SFP15471774B	—	—
1-7/8	1.875	47.63	STP165196A	H	STP165196B	H	SFP17742000A	SFP17742000B	—	—
1-15/16	1.937	49.20	STP177208A	H	STP177208B	H	SFP17742000A	SFP17742000B	—	—
2	2.000	50.80	STP177208A	H	STP177208B	H	SFP17742000A	SFP17742000B	—	—
2-1/4	2.250	57.15	STP196248A	H	STP196248B	H	—	—	—	—
2-1/2	2.500	63.50	STP228267A	H	STP228267B	H	—	—	—	—

Note: H Denotes that Hollow (cost saving) version of plug is available. See the HSTP Series on page 79.

Masking Plug Selection Guide for Threaded Holes

Silicone and EPDM Plug with 1st Thread Protection
Page 80

Silicone and EPDM Flangeless Plug
Page 76

Silicone and EPDM Tapered Plugs
Page 75

Your Application		Plug with 1st Thread Protection		Flangeless Plug		Tapered Plugs	
UNC	Metric	Silicone 600°F (315°C)	EPDM 425°F (218°C)	Silicone 600°F (315°C)	EPDM 425°F (218°C)	Silicone 600°F (315°C)	EPDM 425°F (218°C)
2 - 56	M2	—	—	—	—	STP003012A	STP003012B
8 - 32	—	—	—	—	—	STP006018-07A	STP006018-07C
10 - 24	M4	—	—	SFP157236A	SFP157236B	STP006020A	STP006020D
12 - 24	—	—	—	SFP157236A	SFP157236B	STP012025A	STP012025D
—	M6	SPFTM6A	SPFTM6B	SFP236315A	SFP236315D	STP012025-10A	STP012025-10C
1/4 - 20	—	SPFT1/4A	SPFT1/4B	SFP236315A	SFP236315D	STP012025-10A	STP012025-10C
5/16 - 18	—	SPFT5/16A	SPFT5/16B	SFP236315A	SFP236315D	STP012037-12A	STP012037-12B
—	M8	SPFTM8A	SPFTM8B	SFP315394A	SFP315394C	STP018034-10A	STP018034-10C
3/8 - 16		SPFT3/8A	SPFT3/8B	SFP315394A	SFP315394C	STP025037A	STP025037D
—	M10	SPFTM10A	SPFTM10B	SFP394472A	SFP394472C	STP025037A	STP025037D
7/16 - 14		SPFT7/16A	SPFT7/16B	SFP394472A	SFP394472C	STP025043A	STP025043C
—	M12	SPFTM12A	SPFTM12B	SFP472551A	SFP472551B	STP031050A	STP031050C
1/2 - 13	—	SPFT1/2A	SPFT1/2B	SFP472551A	SFP472551B	STP035047A	STP035047B
9/16 - 12	—	—	—	—	—	STP039059A	STP039059B
5/8 - 11	—	—	—	SFP551630A	SFP551630C	STP043062A	STP043062D
—	M16	SPFTM16A	SPFTM16B	SFP630709A	SFP630709C	STP043062A	STP043062D
3/4 - 10	—	—	—	SFP709787A	SFP709787C	STP055075A	STP055075D
—	M20	SPFTM20A	SPFTM20B	SFP787886A	SFP787886B	STP062078A	STP062078D
7/8 - 9	—	—	—	SFP787886A	SFP787886B	STP062094A	STP062094B
1 - 8	—	—	—	SFP9541024A	SFP9541024B	STP078102A	STP078102B
1 - 1/8 - 7	—	—	—	SFP11251250A	SFP11251250B	STP109118A	STP109118B

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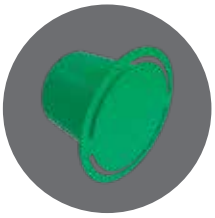

PIPE & FLANGE PROTECTION

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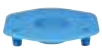
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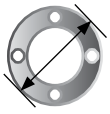

HOW TO MEASURE & SELECT YOUR PRODUCT 107

PIPE & FLANGE PROTECTION

PIPE CAPS

How to Measure a Pipe & Pick a Cap
See Page 107

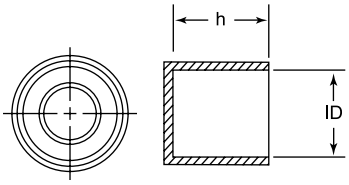
RRC Series
Closed End or Vented Pipe Caps

Specifications:
- Material: Polyethylene
- Color: See Table

Features:
- Protects threaded or non-threaded pipe ends
- Sized and designed for positive-gripping power over the outside diameter of the pipe
- Eliminates foreign materials from entering the pipe
- Vented option prevents pressure build up inside the pipe that may otherwise force off the cap

Closed End Pipe Caps

Item No.	Nominal Pipe Size in	ID in	Height (h) in	Color	Bulk Pack Qty.
RRC1/8A	1/8	0.385	0.485	Yellow	5500
RRC1/4A	1/4	0.516	0.490	Red	13000
RRC3/8A	3/8	0.660	0.538	Yellow	9500
RRC1/2A	1/2	0.840	0.717	Black	4000
RRC3/4A	3/4	1.045	0.750	Red	2500
RRC1A	1	1.290	0.877	Blue	1500
RRC1-1/4A	1-1/4	1.660	0.920	Red	1000
RRC1-1/2A	1-1/2	1.910	0.925	Black	1000
RRC2A	2	2.378	1.080	Blue	1000
RRC2-1/2A	2-1/2	2.860	1.580	Black	500
RRC3A	3	3.470	1.750	Blue	350
RRC3-1/2A	3-1/2	4.000	1.750	Black	280
RRC4A	4	4.500	1.870	Blue	208
RRC5A	5	5.630	2.150	Blue	120
RRC6A	6	6.640	1.960	Black	80
RRC8A	8	8.670	2.320	Black	50
RRC10A	10	10.680	2.410	Black	25
RRC12A	12	12.600	2.620	Black	18
RRC14E	14	14.000	3.000	Black	15
RRC16E	16	16.000	3.125	Black	15
RRC18E	18	18.000	3.375	Black	10
RRC20A	20	20.000	2.955	Black	15
RRC22A	22	22.000	2.985	Black	10
RRC24A	24	24.000	2.995	Black	8
RRC26A	26	26.000	4.500	Black	8
RRC28A	28	28.000	4.724	Black	12
RRC30A	30	30.000	4.625	Black	3
RRC32A	32	32.000	4.720	Black	10
RRC36A	36	36.000	3.040	Black	20
RRC42A	42	42.000	5.250	Black	12
RRC48A	48	48.000	5.250	Black	12



Vented Pipe Caps

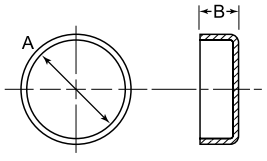
Item No.	Nominal Pipe Size in	ID in	Height (h) in	Color	Bulk Pack Qty.
RRC2F	2	2.378	1.080	Orange	1000
RRC2-1/2D	2-1/2	2.860	1.580	Orange	500
RRC3F	3	3.470	1.750	Orange	350
RRC3-1/2E	3-1/2	4.000	1.750	Orange	280
RRC4E	4	4.500	1.870	Orange	192
RRC5F	5	5.630	2.150	Orange	120
RRC6I	6	6.640	1.960	Orange	80
RRC8B	8	8.670	2.320	Orange	50
RRC10D	10	10.580	2.410	Orange	25
RRC12B	12	12.600	2.620	Orange	18

FPC Series
Cracking & Splitting Resistant Pipe Caps

LINE EXTENSION

Specifications:
- Material: Flexible Polyethylene
- Color: Yellow

Features:
- Protects threaded or non-threaded pipe ends
- Resistant to cracking and splitting
- Ideal for withstanding temperatures of –40°F to 150°F (–40°C to 66°C) and will not crack or split under normal use
- Outstanding toughness and puncture resistance
- Good flexibility
- DIN sizes available, please consult Essentra if needed



Item No.	Nominal Pipe Size in	A in	B in	Bulk Pack Qty.
FPC34137A	2	2.374	2.362	300
FPC34140A	2-1/2	2.717	1.417	100
FPC34151A	3	3.386	1.693	100
FPC32709A	3-1/2	4.000	3.937	100
FPC34169A	4	4.500	1.969	200
FPC34179A	6	6.626	1.969	100
FPC31733A	8	8.625	2.165	80
FPC31735A	10	10.748	2.559	28
FPC31694A	12	12.748	2.953	32
FPC31685A	14	14.000	3.150	26
FPC31664A	16	16.000	3.346	18
FPC34211A	18	17.913	3.150	16
FPC31689A	20	20.000	4.134	12

Item No.	Nominal Pipe Size in	A in	B in	Bulk Pack Qty.
• FPC31710A	22	22.000	4.527	10
FPC31739A	24	24.000	4.921	10
FPC31718A	28	28.000	5.709	24
FPC31696A	30	30.000	6.102	22
• FPC31722A	32	32.000	6.496	18
FPC34240A	34	34.000	6.693	20
FPC31701A	36	36.000	6.889	16
FPC34244A	38	38.000	7.087	16
FPC31727A	40	40.000	7.087	16
FPC34248A	44	44.000	7.283	5
• FPC39127A	54	54.000	7.086	5
FPC34252A	56	56.000	8.465	5
FPC34254A	60	60.000	8.661	5
FPC34256A	64	64.000	9.056	5

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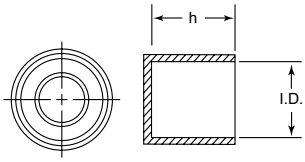
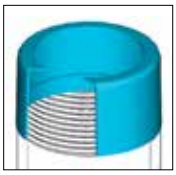
RRO Series
Pipe & Conduit Open-End Pipe Caps

How to Measure a Pipe & Pick a Cap
See Page 107

Specifications:
- Material: Polyethylene
- Color: See Table

Features:
- Protects external threads on pipe ends, rigid metal conduit ends (RMC) or intermediate metal conduit ends (IMC)
- Sized and designed for positive-gripping power over the threads on the pipe





Color Coded for Pipe, EMT or Rigid Metal Conduit (RMC)

Item No.	Nominal Pipe Size in	ID in	Height (h) in	Color	Bulk Pack Qty.
RRO1/2C	1/2	0.835	0.750	Black	5000
RRO3/4A	3/4	1.048	0.747	Red	8000
RRO1A	1	1.305	0.940	Blue	4000
RRO1-1/4A	1-1/4	1.653	0.980	Red	2500
RRO1-1/2A	1-1/2	1.890	1.030	Black	1600
RRO2A	2	2.375	1.157	Blue	1000
RRO2-1/2A	2-1/2	2.891	1.580	Black	500
RRO3A	3	3.465	1.750	Blue	350
RRO3-1/2A	3-1/2	4.010	1.750	Black	280
RRO4A	4	4.530	1.870	Blue	208
RRO5A	5	5.531	1.870	Blue	120
RRO6A	6	6.586	2.180	Blue	80
RRO8A	8	8.625	2.210	Black	50
RRO10A	10	10.850	2.410	Black	30

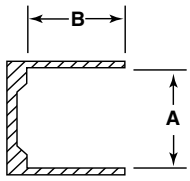
Color Coded for Intermediate Metal Conduit (IMC)

Item No.	Nominal Pipe Size in	ID in	Height (h) in	Color	Bulk Pack Qty.
RRO1/2B	1/2	0.835	0.750	Yellow	5000
RRO3/4C	3/4	1.048	0.747	Green	8000
RRO1D	1	1.305	0.940	Orange	4000
RRO1-1/4C	1-1/4	1.653	0.980	Green	2500
RRO1-1/2B	1-1/2	1.890	1.030	Yellow	1600
RRO2E	2	2.375	1.157	Orange	1000
RRO2-1/2B	2-1/2	2.891	1.580	Yellow	500
RRO3C	3	3.465	1.750	Orange	350
RRO3-1/2B	3-1/2	4.010	1.750	Yellow	280
RRO4C	4	4.530	1.870	Orange	208

NPS Series
Heavy Duty Base Pipe Caps

Specifications:
- Material: Polyethylene
- Color: Black

Features:
- Has a thicker heavy-duty base for added protection over the outside diameter of the pipe
- Protects threaded or non-threaded pipe ends
- Eliminates foreign materials from entering the pipe



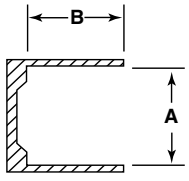
Item No.	Nominal Pipe Size in	A in	B in	Bulk Pack Qty.
NPS1/4B	1/4	0.540	0.813	4000
NPS3/8B	3/8	0.675	0.813	2500
NPS1/2B	1/2	0.840	0.813	1800
NPS3/4B	3/4	1.050	0.813	1200
NPS1B	1	1.315	0.813	1600
NPS1-1/4B	1-1/4	1.660	1.406	550

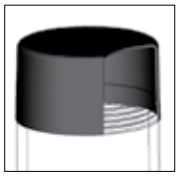
Item No.	Nominal Pipe Size in	A in	B in	Bulk Pack Qty.
NPS1-1/2B	1-1/2	1.900	1.406	450
NPS2B	2	2.375	1.375	300
NPS2-1/2B	2-1/2	2.875	1.375	200
NPS3B	3	3.500	1.344	150
NPS3-1/2B	3-1/2	4.000	1.594	100
NPS4B	4	4.500	1.594	80

CEX Series
Lightweight Pipe Caps

Specifications:
- Material: Polyethylene
- Color: See Table

Features:
- Lightweight range with internal rings for positive-gripping power
- Protects threaded or non-threaded pipe ends
- Eliminates foreign materials from entering the pipe





Item No.	Nominal Pipe Size in	A in	B in	Color	Bulk Pack Qty.
CEX1/4B	1/4	0.540	0.845	Orange	4000
CEX3/8B	3/8	0.675	0.845	Orange	2500
CEX1/2B	1/2	0.840	0.845	Black	1800
CEX3/4B	3/4	1.050	0.845	Red	1300
CEX1C	1	1.315	0.845	Blue	1600
CEX1-1/4B	1-1/4	1.660	1.465	Red	650

Item No.	Nominal Pipe Size in	A in	B in	Color	Bulk Pack Qty.
CEX1-1/2C	1-1/2	1.900	1.465	Black	500
CEX2B	2	2.375	1.465	Blue	300
CEX2-1/2B	2-1/2	2.875	1.465	Black	200
CEX3B	3	3.500	1.465	Blue	150
CEX3-1/2B	3-1/2	4.000	1.695	Black	100
CEX4B	4	4.500	1.695	Blue	80

PIPE PLUGS

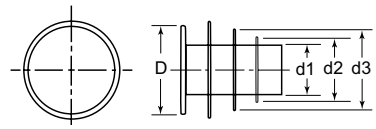
How to Measure a Steel Pipe & Pick a Pipe Plug
See Page 107

RPP Series
Ribbed Pipe Plug

LINE EXTENSION

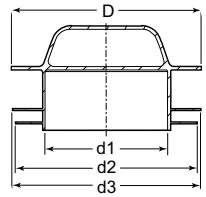
Specifications:
- Material: Polyethylene
- Color: See Table

Features:
- Flexible ribs allow plug to fit multiple schedules of NPT pipe
- Straight wall on the plugs OD provides a secure and friction fit with the mating parts ID



Style 1

Item No.	NPT in	NPT Schedule	Style	Color	D	d1	d2	d3	Bulk Pack Qty.
• **1343438**	1/4	40,80	1	Blue	0.539	0.266	0.478	0.5	20000
• **1343439**	3/8	40,80	1	Blue	0.673	0.217	0.575	0.587	15000
• **1343440**	1/2	40,80,160	1	Blue	0.838	0.407	0.695	0.734	12000
• **1343441**	3/4	40,80,160	1	Blue	1.051	0.461	0.905	0.939	10000
• **1343442**	1	40,80,160	1	Blue	1.315	0.637	1.161	1.194	8000
• **1343443**	1-1/4	40,80,160	1	Blue	1.660	0.902	1.509	1.539	4000
• **1343444**	1-1/2	40,80,160	1	Blue	1.900	1.053	1.717	1.759	3000
• **1343445**	2	40,80,160	1	Blue	2.374	1.254	2.216	2.163	2000
• **1343446**	2-1/2	40,80,160	1	Blue	2.875	1.641	2.758	2.737	1300
• **1343447**	3	40,80,160	1	Blue	3.500	2.230	3.356	3.309	800
• **1343448**	4	40,80,120,160	1	Blue	4.500	3.137	4.292	4.281	450
RPP4A	4	40,80,120,160	2	Black	4.450	2.250	4.249	4.409	50
• **1343449**	5	40,80,120,160	1	Blue	5.563	3.908	5.285	5.245	400
RPP5A	5	40,80,120	2	Blue	5.452	2.875	5.150	5.275	50
• **1343450**	6	40,80,120	1	Blue	6.625	4.852	6.472	6.364	270
RPP6A	6	80,120	2	Red	6.460	3.500	5.500	6.000	20
• **1343451**	8	40,60,80,100,120,140	1	Blue	8.625	6.625	8.396	8.268	115
• **1343452**	10	20,30,40,60,80,100	1	Blue	10.750	8.750	10.475	10.450	90
• **1343453**	12	30,40,60,80,100	1	Blue	12.750	10.687	12.366	12.410	42
• **1343454**	14	20,30,60,80,100,120	1	Blue	14.000	11.500	13.602	13.566	12
• **1343455**	16	20,30,40,60,80	1	Blue	16.000	13.750	15.655	15.547	15
• **1343456**	18	20,30,40,60,80	1	Blue	18.000	15.250	17.464	17.443	10
• **1343457**	20	20,30,40,60,80	1	Blue	20.000	17.000	19.593	19.522	10
• **1343458**	24	20,30,40,60,80	1	Blue	24.000	20.867	24.606	24.606	5



Style 2

Schedule 40 & 80 Pipe Plugs

Specifications:
- Material: Polyethylene
- Color: See Table

Features:
- Designed to plug schedule 40 and 80 steel or plastic pipe ends

See the Numbered Series on page 24 - 26 for more size and color options.

Steel Pipe

Nominal Pipe Size in	Schedule	Item No.	Color	Bulk Pack Qty.
1/8	40	**004A**	Blue	5000
1/8	80	**002A**	Blue	5000
1/4	40	**008A**	Blue	5000
1/4	80	**006A**	Blue	5000
3/8	40	**012A**	Blue	5000
3/8	80	**009A**	Blue	5000
1/2	40	**017A**	Blue	7500
1/2	80	**014A**	Blue	9000
3/4	40	**027A**	Blue	7000
3/4	80	**022A**	Blue	4000
1	40	**039A**	Red	2000
1	80	**030A**	Blue	4500
1-1/4	40	**1055A**	Blue	2500
1-1/4	80	**044A**	Blue	2500
1-1/2	40	**055A**	Blue	1500
1-1/2	80	**051A**	Blue	1500
2	40	**062A**	Blue	850
2	80	**1075A**	Blue	2500
2-1/2	40	**073A**	Blue	600
2-21/2	80	**064A**	Blue	1000
3	40	**083A**	Blue	750
3	80	**081A**	Blue	500
3-1/2	40	**089A**	Blue	350
3-1/2	80	**086A**	Blue	400
4	40	**092A**	Blue	250
4	80	**090A**	Blue	300
5	40	**1110A**	Blue	250
5	80	**096A**	Blue	250
6	40	**FPL6A**	Black	150
6	80	**102A**	Blue	250
8	40	**FPL8A**	Black	100
8	80	**112A**	Blue	100
10	40	**FPL10A**	Black	50
12	40	**FPL12A**	Black	30
12	80	**132A**	Blue	40

Plastic Pipe

Nominal Pipe Size in	Schedule	Item No.	Color	Bulk Pack Qty.
1/8	40	**003A**	Blue	5000
1/8	80	**1000A**	Blue	5000
1/4	40	**007A**	Blue	5000
1/4	80	**005A**	Blue	5000
3/8	40	**013A**	Blue	5000
3/8	80	**009A**	Blue	5000
1/2	40	**016A**	Blue	7500
1/2	80	**013A**	Blue	9000
3/4	40	**026A**	Blue	4000
3/4	80	**022A**	Blue	4000
1	40	**038A**	Blue	2500
1	80	**030A**	Blue	4500
1-1/4	40	**047A**	Blue	2000
1/1/4	80	**044A**	Blue	2500
1-1/2	40	**054A**	Blue	1700
1-1/2	80	**051A**	Blue	1500
2	40	**061A**	Blue	1000
2	80	**058A**	Blue	900
2-1/2	40	**071A**	Blue	600
2-1/2	80	**064A**	Blue	1000
3	40	**083A**	Blue	750
3	80	**081A**	Blue	500
3-1/2	40	**088A**	Blue	300
3-1/2	80	**086A**	Blue	400
4	40	**092A**	Blue	300
4	80	**090A**	Blue	300
5	40	**1100A**	Blue	250
5	80	**096A**	Blue	250
6	40	**104A**	Blue	90
6	80	**102A**	Blue	250
8	40	**116A**	Blue	100
8	80	**112A**	Blue	100
10	40	**128A**	Blue	75
12	40	**133A**	Blue	30
12	80	**132A**	Blue	40

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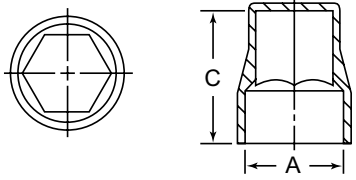
SUCKER ROD PROTECTORS, STATOR CAPS & NPT PLUGS

SRH Series
Sucker Rod Caps

Specifications:
- Material: Polyethylene
- Color: Black

Features:
- Protects sucker-rod pin ends
- The heavy-duty part design protects during shipping or in-house processing
- The hex head design promotes easy removal in the field with an open or closed-end wrench

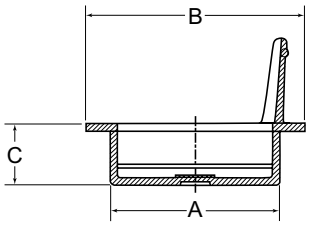


Item No.	Coupling Size in	A in	B in	C in	Bulk Pack Qty.
SRH5/8B	0.625	1.250	1.050	1.750	700
SRH3/4A	0.750	1.500	1.130	2.063	500
SRH7/8A	0.875	1.635	1.325	2.188	400
SRH1A	1.000	2.000	1.565	2.460	250
SRH1-1/8A	1.125	2.250	1.560	2.625	200

SRPP Series
Sucker Rod Plug with Pull

Specifications
- Material: Polyethylene
- Color: Black

Features
- Protect sucker-rod coupling ends
- Protects the coupling during shipping and storage

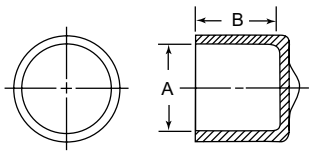


Item No.	Coupling Size in	A in	B in	C in	Bulk Pack Qty.
SRPP5/8A	0.625	0.982	1.187	0.400	700
SRPP3/4A	0.750	1.110	1.437	0.400	500
SRPP7/8A	0.875	1.240	1.562	0.400	400
SRPP1A	1.000	1.430	1.937	0.400	250
SRPP1-1/8A	1.125	1.620	2.093	0.400	200

SCDK Series
Pump Stator/Rotor Cap

Specifications:
- Material: PVC
- Color: Black

Features:
- Provides maximum protection for stators/ rotors on progressive cavity pumps
- Flexible material for easy installation



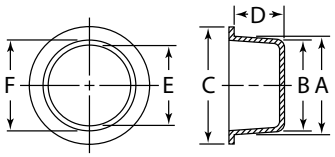
Item No.	ID A in	Length B in	Bulk Pack Qty.
SCDK0262A	4.500	2.000	50
SCDK0259A	4.750	2.000	50
SCDK0263A	5.500	2.000	50
SCDK0264A	6.250	2.000	25

Item No.	ID A in	Length B in	Bulk Pack Qty.
SCDK0265A	6.500	2.000	25
SCDK0266A	6.750	2.000	25
SCDK0267A	8.000	2.000	25
DM9625-2A	9.625	2.000	20

NPT Series
Plugs for NPT Threads

Specifications:
- Material: Low-Density Polyethylene
- Colors: See Table

Features:
- Designed specifically to be used to plug NPT tapered threaded fittings
- The tapered design allows the part to plug multiple inner diameters



To Assure Proper Fit:

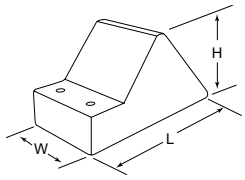
Plugs

Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"

Item No.	A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	F in	F mm	Color	Bulk Pack Qty.
NPT3/8A	0.615	15.62	0.570	14.48	0.750	19.05	0.285	7.24	0.497	12.62	0.535	13.59	Yellow	5000
NPT3/4A	0.955	24.26	0.922	23.42	1.125	28.58	0.363	9.22	0.849	21.56	0.872	22.15	Red	5500
NPT1-1/4A	1.560	39.62	1.510	38.35	1.750	44.45	0.435	11.05	1.401	35.59	1.481	37.62	Red	2000
NPT2A	2.275	57.79	2.225	56.52	2.437	61.90	0.495	12.57	2.092	53.14	2.194	55.73	Blue	2500
NPT2-1/2A	2.725	69.22	2.680	68.07	2.875	73.03	0.480	12.19	2.512	63.80	2.628	66.75	Black	600
NPT3A	3.325	84.46	3.285	83.44	3.500	88.90	0.470	11.94	3.154	80.11	3.220	81.79	Blue	400
NPT3-1/2A	3.785	96.14	3.775	95.89	4.062	103.17	0.750	19.05	3.665	93.09	3.675	93.35	Black	550
NPT4A	4.315	109.61	4.295	109.09	4.687	119.05	0.790	20.07	4.077	103.56	4.115	104.52	Blue	500
NPT5A	5.360	136.14	5.350	135.89	5.750	146.05	0.850	21.59	5.205	132.21	5.215	132.46	Blue	275
NPT6A	6.425	163.20	6.390	162.31	6.750	171.45	0.895	22.73	6.252	158.80	6.272	159.31	Blue	180

PIPE CHOCKS & WELD FITTING CAPS AND PLUGS

PCK Series
Pipe Chocks

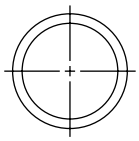


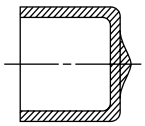
Specifications:
- Material: Low-Density Polyethylene
- Color: Orange

Features:
- Pipe chocks are used to help secure pipe during transit
- Nails are included

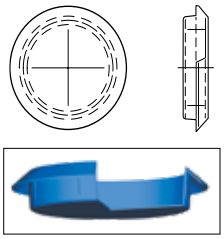
Item No.	L		W		H		Bulk Pack Qty.
	in	mm	in	mm	in	mm	
PCK0400B	4.500	114.30	2.750	69.85	2.000	50.80	50
PCK0800B	8.000	203.20	3.500	88.90	3.000	76.20	20

BW & DM Series
Butt-Weld Caps & Plugs





Type: Cap



Type: Plug

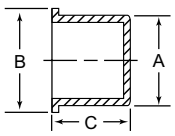
Specifications:
- See Table

Features:
- Provides maximum protection for butt-weld ends on valves, pumps and heat exchangers
- Will not crack or chip and eliminates the need for plywood, masonite and fasteners
- Saves labor assembly costs
- BW Plug – The special reverse angle matches the butt-weld angle and completely covers or protects the end during shipping and storage

Item No.	Nominal Pipe Size	Type	Material	Color	Bulk Pack Qty.
	in				
DM0843-1/2A	1/2	Cap	PVC	Black	5000
DM1000-1/2A	3/4	Cap	PVC	Black	2500
DM1312-1/2A	1	Cap	PVC	Black	2000
DM1625-1/2A	1-1/4	Cap	PVC	Black	500
DM1875-1/2A	1-1/2	Cap	PVC	Black	700
BW2A	2	Plug	Polyethylene	Blue	1000
DM2375-1/2A	2	Cap	PVC	Black	500
BW2-1/2A	2-1/2	Plug	Polyethylene	Blue	600

Item No.	Nominal Pipe Size	Type	Material	Color	Bulk Pack Qty.
	in				
DM2875-1/2A	2-1/2	Cap	PVC	Black	500
BW3A	3	Plug	Polyethylene	Blue	400
DM3500-1/2A	3	Cap	PVC	Black	200
DM4000-1/2A	3-1/2	Cap	PVC	Black	200
BW4A	4	Plug	Polyethylene	Blue	250
DM4500-1/2A	4	Cap	PVC	Black	200
DM5500-1/2A	5	Cap	PVC	Black	100
DM6500-1/2A	6	Cap	PVC	Black	100

V Series
Socket-Weld Fitting Plugs



Specifications:
- Material: Polyethylene
- Color: Blue

Features:
- Designed to provide maximum protection for close fit socket weld applications
- Straight wall on the plugs OD provides a secure and friction fit with the mating parts ID

Item No.	Socket Weld Size	A	B	C	Bulk Pack Qty.
	in	in	in	in	
V23A	1/2	0.875	1.000	0.355	5000
V31A	3/4	1.085	1.200	0.430	3000
V42A	1	1.350	1.475	0.430	4000
V53A	1-1/4	1.695	1.801	0.430	2500
V57A	1-1/2	1.935	2.060	0.430	2000
V68A	2	2.426	2.550	0.555	1000

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RAISED-FACE FLANGE PROTECTORS

150, 300, 600 & 900 Series
Quick-Fit Raised-Face Protectors

How to Measure a Flange & Pick a Protector
See Page 107

Specifications:
- Material: Polyethylene
- Colors: See Table
- Meets ANSI B16.5 and API specifications
- Suitable for use on ASA and BS1560 flanges

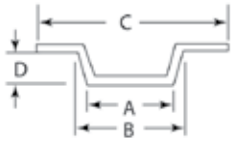
Features:
- Quickly fits into flange bolt holes
- Weather and petroleum resistant
- Requires no fasteners

Nominal Pipe Size in	Class Pressure Rating	Item No.	Color	Bulk Pack Qty.
1/2	125	**1501/2A**	Blue	600
1/2	150	**1501/2A**	Blue	600
1/2	300	**3001/2A**	Black	500
1/2	400	**3001/2A**	Black	500
1/2	600	**3001/2A**	Black	500
1/2	900	**9001/2A**	Black	400
1/2	1500	**9001/2A**	Black	400
3/4	125	**1503/4A**	Blue	550
3/4	150	**1503/4A**	Blue	550
3/4	300	**3003/4A**	Black	325
3/4	400	**3003/4A**	Black	325
3/4	600	**3003/4A**	Black	325
3/4	900	**9003/4A**	Black	300
3/4	1500	**9003/4A**	Black	300
1	125	**1501A**	Blue	400
1	150	**1501A**	Blue	400
1	300	**3001A**	Black	280
1	400	**3001A**	Black	280
1	600	**3001A**	Black	280
1	900	**9001A**	Black	250
1	1500	**9001A**	Black	250
1-1/4	125	**1501-1/4A**	Blue	350
1-1/4	150	**1501-1/4A**	Blue	350
1-1/4	300	**3001-1/4A**	Black	200
1-1/4	400	**3001-1/4A**	Black	200
1-1/4	600	**3001-1/4A**	Black	200
1-1/4	900	**9001-1/4A**	Black	200
1-1/4	1500	**9001-1/4A**	Black	200
1-1/2A	125	**1501-1/2A**	Blue	250
1-1/2A	150	**1501-1/2A**	Blue	250
1-1/2A	300	**3001-1/2A**	Black	150
1-1/2A	400	**3001-1/2A**	Black	150
1-1/2A	600	**3001-1/2A**	Black	150
1-1/2A	900	**900-1-1/2A**	Black	100
1-1/2A	1500	**900-1-1/2A**	Black	100
2	125	**1502A**	Blue	200
2	150	**1502A**	Blue	200
2	300	**3002A**	Black	125
2	400	**3002A**	Black	125
2	600	**3002A**	Black	125
2	900	**9002A**	Black	100
2	1500	**9002A**	Black	100
2-1/2A	125	**1502-1/2A**	Blue	150

Nominal Pipe Size in	Class Pressure Rating	Item No.	Color	Bulk Pack Qty.
2-1/2A	150	**1502-1/2A**	Blue	150
2-1/2A	300	**3002-1/2A**	Black	100
2-1/2A	400	**3002-1/2A**	Black	100
2-1/2A	600	**3002-1/2A**	Black	100
2-1/2A	900	**9002-1/2A**	Black	100
2-1/2A	1500	**9002-1/2A**	Black	100
3	125	**1503A**	Blue	100
3	150	**1503A**	Blue	100
3	300	**3003A**	Black	100
3	400	**3003A**	Black	100
3	600	**3003A**	Black	100
3	900	**9003A**	Black	50
3-1/2	125	**1503-1/2A**	Blue	100
3-1/2	150	**1503-1/2A**	Blue	100
3-1/2	300	**3003-1/2A**	Black	80
4	125	**1504A**	Blue	100
4	150	**1504A**	Blue	100
4	300	**3004A**	Black	80
4	600	**6004A**	Black	50
4	900	**9004A**	Black	50
5	150	**900098**	Blue	50
5	300	**900099**	Blue	50
6	125	**1506A**	Blue	90
6	150	**1506A**	Blue	90
6	300	**3006A**	Black	40
6	600	**6006A**	Black	30
6	900	**9006A**	Black	20
8	125	**1508A**	Blue	70
8	150	**1508A**	Blue	70
8	300	**3008A**	Black	45
8	600	**6008A**	Black	20
8	900	**9008A**	Black	20
10	125	**15010A**	Blue	35
10	150	**15010A**	Blue	35
10	300	**30010A**	Black	35
10	600	**60010A**	Black	10
10	900	**90010A**	Black	10
12	125	**15012A**	Blue	30
12	150	**15012A**	Blue	30
12	300	**30012A**	Black	25
12	600	**60012A**	Black	10
12	900	**90012A**	Black	10

FPR Series
Raised-Face Protector Plugs

Specifications:
- Material: Polyethylene
- Color: Black
- Meets ANSI/ASME B16.5 Specifications



Features:
- Protects petroleum, gas and water type valve flanges
- Protects raised machine face and pipe interior from dirt and moisture during shot and sandblasting operations
- Bolt holes are not covered by flange plugs
- Tapered plug design fits snugly into the pipe's interior
- Requires no fasteners

Item No.	Nominal Pipe Size in	A in	B in	C in	D in	Flange Thickness in	Bulk Pack Qty.
FPR1A	1	1.110	1.156	2.080	0.375	0.150	2000
FPR2A	2	2.050	2.075	3.805	0.440	0.140	400
FPR2-1/2A	2-1/2	2.490	2.510	4.315	0.480	0.130	400
FPR3A	3	3.030	3.110	5.195	0.730	0.132	450
FPR4A	4	3.995	4.095	6.550	0.925	0.130	250

Item No.	Nominal Pipe Size in	A in	B in	C in	D in	Flange Thickness in	Bulk Pack Qty.
FPR5A	5	4.990	5.080	7.475	1.070	0.125	175
FPR6A	6	5.950	6.050	8.810	1.265	0.125	100
FPR8A	8	8.000	8.070	11.020	1.275	0.145	70
FPR10A	10	9.995	10.150	12.925	1.330	0.170	50
FPR12A	12	12.010	12.155	15.215	1.330	0.165	35

RAISED-FACE FLANGE PROTECTORS

How to Measure a Flange & Pick a Protector
See Page 107

PGR Series
Adhesive Peel and Stick Raised-Face Protectors

Specifications:
- Material: Polyethylene
- Color: Black
- Meets ANSI/ASME B16.5 specifications

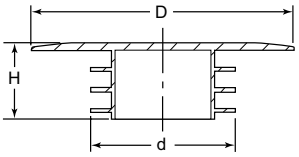
Features:
- Adhesive backed, peel and stick design
- Each size will protect the raised-face for the 150, 300, 400, 600, 900, 1500 and 2500 pound flanges
- Special adhesive bonds tightly and leaves no residue under normal conditions
- Requires no fasteners

Item No.	Nominal Pipe Size in	Actual OD in	Bulk Pack Qty.
PGR1/2A	1/2	1.380	50
PGR3/4A	3/4	1.690	50
PGR1A	1	2.000	50
PGR1-1/4A	1-1/4	2.500	50
PGR1-1/2A	1-1/2	2.880	50
PGR2A	2	3.620	50
PGR2-1/2A	2-1/2	4.120	25
PGR3A	3	5.000	50

Item No.	Nominal Pipe Size in	Actual OD in	Bulk Pack Qty.
PGR3-1/2A	3-1/2	5.500	50
PGR4B	4	6.190	50
PGR5A	5	7.310	50
PGR6A	6	8.500	50
PGR8A	8	10.620	25
PGR10A	10	12.750	25
PGR12A	12	15.000	25

PIR Series
Push-In Raised Face Protectors

Specifications:
- Material: Polyethylene
- Color: Yellow
- Suitable for ANSI and DIN flanges



Features:
- The flexible fins ensure a snug fit into the bore
- Protects raised face against dirt, moisture, paint and sand blasting
- Parts fit 150, 300, 600, 900, 1500 and 2500 pound flanges
- Requires no fasteners

Item No.	Nominal Pipe Size in	DIN	d in	D in	H in	Bulk Pack Qty.
PIR494283A	1/2	DN 15	0.748	1.772	0.650	500
PIR494284A	3/4	DN 20	0.945	2.283	0.650	500
PIR494285A	1	DN 25	1.181	2.756	0.768	500
PIR494286A	1-1/4	DN 32	1.535	3.071	1.161	500
PIR494287A	1-1/2	DN 40	1.772	3.465	1.161	400
PIR494288A	2	DN 50	2.205	4.016	1.161	200
PIR494289A	2-1/2	DN 65	2.835	4.803	1.358	200
PIR494290A	3	DN 80	3.346	5.433	1.358	150
PIR494291A	4	DN 100	4.685	6.417	1.437	100
PIR494292A	5	DN 125	5.630	7.480	1.437	100
PIR494293A	6	DN 150	6.693	8.465	1.437	50
PIR494294A	8	DN 200	8.701	10.630	1.634	30
PIR494295A	10	DN 250	10.827	13.583	1.634	20
PIR494296A	12	DN 300	12.795	16.063	1.634	10

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FULL-FACE FLANGE PROTECTORS

RFL/PCF/PRB Series
Full-Face Flange Protectors

How to Measure a Flange & Pick a Protector, See Page 107.

Specifications:
- Material: See Table
- Color: See Table

RFL Series

PCF Series

PRB Series

Features:
- Designed per ANSI B16.5 and ASME b16.47 flange dimensions
- Provides full face flange protection on the flange's exposed sealing surface
- Specifically designed with multiple holes to match the flange's bolt hole diameter and bolt circle
- Fasteners required - see table below

Cable Tie

Hole Plug

Pin/Washer

Nominal Pipe Size	Class Pressure Rating	Actual OD	Bolt Circle Ø	Hole Size	Item No.			Bulk Pack Qty.	Fasteners			
					HDPE	PP	Pressboard					
in		in			(Black)	(Black)	(Natural)		Cable Tie	Retainer Plug	PIN	Washer
1/2	150	3.500	2.375	0.625	RFD150-1/2A	PCF150-1/2A	PRB150-1/2A	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1/2	300	3.750	2.625	0.625	RFD300-1/2A	PCF300-1/2A	PRB300-1/2A	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1/2	400	3.750	2.625	0.625	RFD300-1/2A	PCF300-1/2A	PRB300-1/2A	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1/2	600	3.750	2.625	0.625	RFD300-1/2A	PCF300-1/2A	PRB300-1/2A	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1/2	900	4.750	3.250	0.875	RFL900-1/2A	PCF900-1/2A	PRB900-1/2A	50	CT022B	FLS015B	PIN2-1/4B	WAS1-3/8A
1/2	1500	4.750	3.250	0.875	RFL900-1/2A	PCF900-1/2A	PRB900-1/2A	50	CT022B	FLS015B	PIN2-1/4B	WAS1-3/8A
1/2	2500	5.250	3.500	0.875	RFL2500-1/2A	PCF2500-1/2A	PRB2500-1/2A	50	CT022B	FLS015B	PIN2-1/4B	WAS1-3/8A
3/4	150	3.875	2.750	0.625	RFD150-3/4A	PCF150-3/4A	PRB150-3/4A	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
3/4	300	4.625	3.250	0.750	RFL300-3/4A	PCF300-3/4A	PRB300-3/4A	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
3/4	400	4.625	3.250	0.750	RFL300-3/4A	PCF300-3/4A	PRB300-3/4A	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
3/4	600	4.625	3.250	0.750	RFL300-3/4A	PCF300-3/4A	PRB300-3/4A	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
3/4	900	5.125	3.500	0.875	RFL900-3/4A	PCF900-3/4A	PRB900-3/4A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3/4	1500	5.125	3.500	0.875	RFL900-3/4A	PCF900-3/4A	PRB900-3/4A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3/4	2500	5.500	3.750	0.875	RFL2500-3/4A	PCF2500-3/4A	PRB2500-3/4A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
1	150	4.250	3.125	0.625	RFD150-1A	PCF150-1A	PRB150-1A	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1	300	4.875	3.500	0.750	RFL300-1A	PCF300-1A	PRB300-1A	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1	400	4.875	3.500	0.750	RFL300-1A	PCF300-1A	PRB300-1A	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1	600	4.875	3.500	0.750	RFL300-1A	PCF300-1A	PRB300-1A	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1	900	5.875	4.000	1.000	RFL900-1A	PCF900-1A	PRB900-1A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
1	1500	5.875	4.000	1.000	RFL900-1A	PCF900-1A	PRB900-1A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
1	2500	6.250	4.250	1.000	RFL2500-1A	PCF2500-1A	PRB2500-1A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
1-1/4	150	4.625	3.500	0.625	RFD150-1-1/4A	PCF150-1-1/4A	PRB150-1-1/4A	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1-1/4	300	5.250	3.875	0.750	RFL300-1-1/4A	PCF300-1-1/4A	PRB300-1-1/4A	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1-1/4	400	5.250	3.875	0.750	RFL300-1-1/4A	PCF300-1-1/4A	PRB300-1-1/4A	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1-1/4	600	5.250	3.875	0.750	RFL300-1-1/4A	PCF300-1-1/4A	PRB300-1-1/4A	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
1-1/4	900	6.250	4.875	1.000	RFL900-1-1/4A	PCF900-1-1/4A	PRB900-1-1/4A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
1-1/4	1500	6.250	4.875	1.000	RFL900-1-1/4A	PCF900-1-1/4A	PRB900-1-1/4A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
1-1/4	2500	7.250	5.125	1.125	RFL2500-1-1/4A	PCF2500-1-1/4A	PRB2500-1-1/4A	50	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
1-1/2	150	5.000	3.875	0.625	RFD150-1-1/2A	PCF150-1-1/2A	PRB150-1-1/2A	50	CT022B	FLS005B	PIN2-1/4B	WAS1-3/8A
1-1/2	300	6.125	4.500	0.875	RFL300-1-1/2A	PCF300-1-1/2A	PRB300-1-1/2A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
1-1/2	400	6.125	4.500	0.875	RFL300-1-1/2A	PCF300-1-1/2A	PRB300-1-1/2A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
1-1/2	600	6.125	4.500	0.875	RFL300-1-1/2A	PCF300-1-1/2A	PRB300-1-1/2A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
1-1/2	900	7.000	4.875	1.125	RFL900-1-1/2A	PCF900-1-1/2A	PRB900-1-1/2A	50	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
1-1/2	1500	7.000	4.875	1.125	RFL900-1-1/2A	PCF900-1-1/2A	PRB900-1-1/2A	50	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
1-1/2	2500	8.000	5.750	1.250	RFL2500-1-1/2A	PCF2500-1-1/2A	PRB2500-1-1/2A	50	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
2	150	6.000	4.750	0.750	RFL150-2A	PCF150-2A	PRB150-2A	50	CT022B	FLS010B	PIN2-1/4B	WAS1-3/8A
2	300	6.500	5.000	0.750	RFL300-2A	PCF300-2A	PRB300-2A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
2	400	6.500	5.000	0.750	RFL300-2A	PCF300-2A	PRB300-2A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
2	600	6.500	5.000	0.750	RFL300-2A	PCF300-2A	PRB300-2A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
2	900	8.500	6.500	1.000	RFL900-2A	PCF900-2A	PRB900-2A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
2	1500	8.500	6.500	1.000	RFL900-2A	PCF900-2A	PRB900-2A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
2	2500	9.250	6.750	1.125	RFL2500-2A	PCF2500-2A	PRB2500-2A	50	CT027B	FLS025B	PIN3-1/4B	WAS1-3/8A
2-1/2	150	7.000	5.500	0.750	RFL150-2-1/2A	PCF150-2-1/2A	PRB150-2-1/2A	50	CT025B	FLS010B	PIN2-1/4B	WAS1-3/8A
2-1/2	300	7.500	5.875	0.875	RFL300-2-1/2A	PCF300-2-1/2A	PRB300-2-1/2A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
2-1/2	400	7.500	5.875	0.875	RFL300-2-1/2A	PCF300-2-1/2A	PRB300-2-1/2A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
2-1/2	600	7.500	5.875	0.875	RFL300-2-1/2A	PCF300-2-1/2A	PRB300-2-1/2A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
2-1/2	900	9.625	7.500	1.125	RFL900-2-1/2A	PCF900-2-1/2A	PRB900-2-1/2A	50	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
2-1/2	1500	9.625	7.500	1.125	RFL900-2-1/2A	PCF900-2-1/2A	PRB900-2-1/2A	50	CT025B	FLS025B	PIN3-1/4B	WAS1-3/8A
2-1/2	2500	10.500	7.750	1.250	RFL2500-2-1/2A	PCF2500-2-1/2A	PRB2500-2-1/2A	25	CT027B	FLS030B	PIN3-1/4B	WAS1-3/4A
3	150	7.500	6.000	0.750	RFL150-3A	PCF150-3A	PRB150-3A	50	CT025B	FLS010B	PIN2-1/4B	WAS1-3/8A
3	300	8.250	6.625	0.875	RFL300-3A	PCF300-3A	PRB300-3A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3	400	8.250	6.625	0.875	RFL300-3A	PCF300-3A	PRB300-3A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3	600	8.250	6.625	0.875	RFL300-3A	PCF300-3A	PRB300-3A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3	900	9.500	7.500	1.000	RFL900-3A	PCF900-3A	PRB900-3A	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
3	1500	10.500	8.000	1.250	RFL1500-3A	PCF1500-3A	PRB1500-3A	25	CT027B	FLS030B	PIN3-1/4B	WAS1-3/4A
3	2500	12.000	9.000	1.375	RFL2500-3A	PCF2500-3A	PRB2500-3A	25	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
3-1/2	150	8.500	7.000	0.750	RFL150-3-1/2A	PCF150-3-1/2A	PRB150-3-1/2A	50	CT025B	FLS010B	PIN2-1/4B	WAS1-3/8A
3-1/2	300	9.000	7.250	0.875	RFL300-3-1/2A	PCF300-3-1/2A	PRB300-3-1/2A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
3-1/2	400	9.000	7.250	1.000	RFL600-3-1/2A	PCF600-3-1/2A	—	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
3-1/2	600	9.000	7.250	1.000	RFL600-3-1/2A	—	—	50	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
4	150	9.000	7.500	0.750	RFL150-4A	PCF150-4A	PRB150-4A	25	CT025B	FLS010B	PIN2-1/4B	WAS1-3/8A
4	300	10.000	7.875	0.875	RFL300-4A	PCF300-4A	PRB300-4A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
4	400	10.000	7.875	1.000	RFL400-4A	—	—	50	CT025B	FLS020B	PIN3-1/4B	WAS1-3/8A

(Continued on next page)

FULL-FACE FLANGE PROTECTORS

RFL/PCF/PRB Series
Full-Face Flange Protectors

How to Measure a Flange & Pick a Protector, See Page 107.

RFL Series

PCF Series

PRB Series

Cable Tie

Hole Plug

Pin/Washer

Nominal Pipe Size in	Class Pressure Rating	Actual OD in	Bolt Circle Ø	Hole Size	Item No. HDPE (Black)	Item No. PP (Black)	Item No. Pressboard (Natural)	Bulk Pack Qty.	Fasteners Cable Tie	Fasteners Retainer Plug	Fasteners PIN	Fasteners Washer
4	600	10.750	8.500	1.000	RFL600-4A	PCF600-4A	PRB600-4A	50	CT025B	FLS020B	PIN3-1/4B	WAS1-3/8A
4	900	11.500	9.250	1.250	RFL900-4A	PCF900-4A	PRB900-4A	25	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
4	1500	12.250	9.500	1.375	RFL1500-4A	PCF1500-4A	PRB1500-4A	25	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
4	2500	14.000	10.750	1.625	RFL2500-4A	PCF2500-4A	PRB2500-4A	25	CT029B	FLS045B	—	—
5	150	10.000	8.500	0.875	RFL150-5A	PCF150-5A	PRB150-5A	50	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
5	300	11.000	9.250	0.875	RFL300-5A	PCF300-5A	PRB300-5A	25	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
5	400	11.000	9.250	1.000	RFL400-5A	—	—	25	CT025B	FLS020B	PIN3-1/4B	WAS1-3/8A
5	600	13.000	10.500	1.125	RFL600-5A	PCF600-5A	PRB600-5A	25	CT025B	FLS025B	PIN3-1/4B	WAS1-3/8A
5	900	13.750	11.000	1.375	RFL900-5A	PCF900-5A	PRB900-5A	25	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
5	1500	14.750	11.500	1.625	RFL1500-5A	PCF1500-5A	PRB1500-5A	25	CT029B	FLS045B	—	—
5	2500	16.500	12.750	1.875	RFL2500-5A	PCF2500-5A	PRB2500-5A	25	CT029B	FLS055B	—	—
6	150	11.000	9.500	0.875	RFL150-6A	PCF150-6A	PRB150-6A	25	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
6	300	12.500	10.625	0.875	RFL300-6A	PCF300-6A	PRB300-6A	25	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
6	400	12.500	10.625	1.000	RFL400-6A	—	—	25	CT025B	FLS020B	PIN3-1/4B	WAS1-3/8A
6	600	14.000	11.500	1.125	RFL600-6A	PCF600-6A	PRB600-6A	25	CT025B	FLS025B	PIN3-1/4B	WAS1-3/8A
6	900	15.000	12.500	1.250	RFL900-6A	PCF900-6A	PRB900-6A	25	CT027B	FLS030B	PIN3-1/4B	WAS1-3/4A
6	1500	15.500	12.500	1.500	RFL1500-6A	PCF1500-6A	PRB1500-6A	25	CT029B	FLS040B	—	—
6	2500	19.000	14.500	2.125	RFL2500-6A	PCF2500-6A	PRB2500-6A	25	CT076B	FLS065B	—	—
8	150	13.500	11.750	0.875	RFL150-8A	PCF150-8A	PRB150-8A	25	CT025B	FLS015B	PIN2-1/4B	WAS1-3/8A
8	300	15.000	13.000	1.000	RFL300-8A	PCF300-8A	PRB300-8A	25	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
8	400	15.000	13.000	1.125	RFL400-8A	—	—	25	CT025B	FLS025B	PIN3-1/4B	WAS1-3/8A
8	600	16.500	13.750	1.250	RFL600-8A	PCF600-8A	PRB600-8A	25	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
8	900	18.500	15.500	1.500	RFL900-8A	PCF900-8A	PRB900-8A	25	CT027B	FLS040B	PIN3-1/4B	WAS1-3/8A
8	1500	19.000	15.500	1.750	RFL1500-8A	PCF1500-8A	PRB1500-8A	25	CT029B	FLS050B	—	—
8	2500	21.750	17.250	2.125	RFL2500-8A	PCF2500-8A	PRB2500-8A	10	CT076B	FLS065B	—	—
10	150	16.000	14.250	1.000	RFL150-10A	PCF150-10A	PRB150-10A	25	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
10	300	17.500	15.250	1.125	RFL300-10A	PCF300-10A	PRB300-10A	25	CT025B	FLS025B	PIN3-1/4B	WAS1-3/8A
10	400	17.500	15.250	1.250	RFL400-10A	—	—	25	CT027B	FLS030B	PIN3-1/4B	WAS1-3/4A
10	600	20.000	17.000	1.375	RFL600-10A	PCF600-10A	PRB600-10A	25	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
10	900	21.500	18.500	1.500	RFL900-10A	PCF900-10A	PRB900-10A	10	CT027B	FLS040B	—	WAS1-3/4A
10	1500	23.000	19.000	2.000	RFL1500-10A	PCF1500-10A	PRB1500-10A	10	CT076B	FLS060B	—	—
10	2500	26.500	21.250	2.625	RFL2500-10A	PCF2500-10A	PRB2500-10A	10	CT076B	FLS075B	—	—
12	150	19.000	17.000	1.000	RFL150-12A	PCF150-12A	PRB150-12A	25	CT025B	FLS020B	PIN2-1/4B	WAS1-3/8A
12	300	20.500	17.750	1.250	RFL300-12A	PCF300-12A	PRB300-12A	10	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
12	400	20.500	17.750	1.375	RFL400-12A	—	—	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
12	600	22.000	19.250	1.375	RFL600-12A	PCF600-12A	PRB600-12A	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
12	900	24.000	21.000	1.500	RFL900-12A	PCF900-12A	PRB900-12A	10	CT029B	FLS040B	—	—
12	1500	26.500	22.500	2.125	RFL1500-12A	PCF1500-12A	PRB1500-12A	10	CT076B	FLS065B	—	—
12	2500	30.000	24.380	2.875	RFL2500-12A	PCF2500-12A	PRB2500-12A	10	CT076B	—	—	—
14	150	21.000	18.750	1.125	RFL150-14A	PCF150-14A	PRB150-14A	10	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
14	300	23.000	20.250	1.250	RFL300-14A	PCF300-14A	PRB300-14A	10	CT025B	FLS030B	PIN3-1/4B	
14	400	23.000	20.250	1.375	RFL400-14A	—	—	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
14	600	23.750	20.750	1.500	RFL600-14A	PCF600-14A	PRB600-14A	10	CT027B	FLS040B	—	—
14	900	25.250	22.000	1.625	RFL900-14A	PCF900-14A	PRB900-14A	10	CT029B	FLS045B	—	—
14	1500	29.500	25.000	2.375	RFL1500-14A	PCF1500-14A	PRB1500-14A	10	CT076B	FLS070B	—	—
16	150	23.500	21.250	1.125	RFL150-16A	PCF150-16A	PRB150-16A	10	CT025B	FLS025B	PIN2-1/4B	WAS1-3/8A
16	300	25.500	22.500	1.375	RFL300-16A	PCF300-16A	PRB300-16A	10	CT025B	FLS035B	PIN3-1/4B	WAS1-3/4A
16	400	25.500	22.500	1.500	RFL400-16A	—	—	10	CT027B	FLS040B	PIN3-1/4B	WAS1-3/4A
16	600	27.000	23.750	1.625	RFL600-16A	PCF600-16A	PRB600-16A	10	CT027B	FLS045B	—	—
16	900	27.750	24.250	1.750	RFL900-16A	PCF900-16A	PRB900-16A	10	CT029B	FLS050B	—	—
16	1500	32.500	27.750	2.625	RFL1500-16A	PCF1500-16A	PRB1500-16A	10	CT076B	FLS075B	—	—
18	150	25.000	22.750	1.250	RFL150-18A	PCF150-18A	PRB150-18A	10	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
18	300	28.000	24.750	1.375	RFL300-18A	PCF300-18A	PRB300-18A	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
18	400	28.000	24.750	1.500	RFL400-18A	—	—	10	CT027B	FLS040B	PIN3-1/4B	WAS1-3/4A
18	600	29.250	25.750	1.750	RFL600-18A	PCF600-18A	PRB600-18A	10	CT027B	FLS050B	—	—
18	900	31.000	27.000	2.000	RFL900-18A	PCF900-18A	PRB900-18A	10	CT076B	FLS060B	—	—
18	1500	36.000	30.500	2.875	RFL1500-18A	PCF1500-18A	PRB1500-18A	10	CT076B	—	—	—
20	150	27.500	25.000	1.250	RFL150-20A	PCF150-20A	PRB150-20A	10	CT025B	FLS030B	PIN3-1/4B	WAS1-3/8A
20	300	30.500	27.000	1.375	RFL300-20A	PCF300-20A	PRB300-20A	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
20	400	30.500	27.000	1.625	RFL400-20A	—	—	10	CT029B	FLS045B	—	—
20	600	32.000	28.500	1.750	RFL600-20A	PCF600-20A	PRB600-20A	10	CT029B	FLS050B	—	—
20	900	33.750	29.500	2.125	RFL900-20A	PCF900-20A	PRB900-20A	10	CT076B	FLS065B	—	—
20	1500	38.750	32.750	3.125	RFL1500-20A	PCF1500-20A	PRB1500-20A	10	CT080B	—	—	—
22	150	29.500	27.250	1.375	RFL150-22A	PCF150-22A	PRB150-22A	10	CT025B	FLS035B	PIN3-1/4B	WAS1-3/4A
22	300	33.000	29.250	1.625	RFL300-22A	PCF300-22A	PRB300-22A	10	CT029B	FLS045B	PIN3-1/4B	WAS1-3/4A
22	400	33.000	29.250	1.750	RFL400-22A	—	—	10	CT029B	FLS050B	—	—
22	600	34.250	30.625	1.750	RFL600-22A	PCF600-22A	PRB600-22A	10	CT029B	FLS050B	—	—
24	150	32.000	29.500	1.375	RFL150-24A	PCF150-24A	PRB150-24A	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A

(Continued on next page)

FULL-FACE FLANGE PROTECTORS

RFL/PCF/PRB Series
Full-Face Flange Protectors

How to Measure a Flange & Pick a Protector, See Page 107.

RFL Series

PCF Series

PRB Series

Cable Tie

Hole Plug

Pin/Washer

Nominal Pipe Size in	Class Pressure Rating	Actual OD in	Bolt Circle Ø	Hole Size	Item No. HDPE (Black)	Item No. PP (Black)	Item No. Pressboard (Natural)	Bulk Pack Qty.	Fasteners Cable Tie	Fasteners Retainer Plug	Fasteners PIN	Fasteners Washer
24	300	36.000	32.000	1.625	RFL300-24A	PCF300-24A	PRB300-24A	10	CT029B	FLS045B	—	—
24	400	36.000	32.000	1.875	RFL400-24A	—	—	10	CT029B	FLS055B	—	—
24	600	37.000	33.000	2.000	RFL600-24A	PCF600-24A	PRB600-24A	10	CT076B	FLS060B	—	—
24	900	41.000	35.500	2.625	RFL900-24A	PCF900-24A	PRB900-24A	10	CT076B	FLS075B	—	—
24	1500	46.000	39.000	3.625	RFL1500-24A	PCF1500-24A	PRB1500-24A	10	CT080B	FLS080B	—	—
26	150	34.250	31.750	1.375	RFL150-26A	PCF150-26A	PRB150-26A	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
26	300	38.250	34.500	1.750	RFL300-26A	PCF300-26A	PRB300-26A	10	CT029B	FLS050B	—	—
26	400	38.250	34.500	1.875	RFL400-26A	—	—	10	CT029B	FLS055B	—	—
26	600	40.000	36.000	2.000	RFL600-26A	PCF600-26A	PRB600-26A	10	CT076B	FLS060B	—	—
26	900	42.750	37.500	2.875	RFL900-26A	PCF900-26A	PRB900-26A	10	CT076B	—	—	—
28	150	36.500	34.000	1.375	RFL150-28A	PCF150-28A	PRB150-28A	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
28	300	40.750	37.000	1.750	RFL300-28A	PCF300-28A	PRB300-28A	10	CT029B	FLS050B	—	—
28	400	40.750	37.000	2.000	RFL400-28A	—	—	10	CT029B	FLS060B	—	—
28	600	42.250	38.000	2.125	RFL600-28A	PCF600-28A	PRB600-28A	10	CT076B	FLS065B	—	—
28	900	46.000	40.250	3.125	RFL900-28A	PCF900-28A	PRB900-28A	10	CT076B	—	—	—
30	150	38.750	36.000	1.375	RFL150-30A	PCF150-30A	PRB150-30A	10	CT027B	FLS035B	PIN3-1/4B	WAS1-3/4A
30	300	43.000	39.250	1.875	RFL300-30A	PCF300-30A	PRB300-30A	10	CT029B	FLS055B	—	—
30	400	43.000	39.250	2.125	RFL400-30A	—	—	10	CT076B	FLS065B	—	—
30	600	44.500	40.250	2.125	RFL600-30A	PCF600-30A	PRB600-30A	10	CT076B	FLS065B	—	—
30	900	48.500	42.750	3.125	RFL900-30A	—	—	1	CT076B	—	—	—
32	150	41.750	38.500	1.625	RFL150-32A	PCF150-32A	PRB150-32A	10	CT029B	FLS045B	—	—
32	300	45.250	41.500	2.000	RFL300-32A	PCF300-32A	PRB300-32A	10	CT029B	FLS060B	—	—
32	400	45.250	41.500	2.125	RFL400-32A	—	—	10	CT076B	FLS065B	—	—
32	600	47.000	42.500	2.375	RFL600-32A	PCF600-32A	PRB600-32A	10	CT076B	FLS070B	—	—
32	900	51.750	45.500	3.375	RFL900-32A	—	—	10	CT076B	—	—	—
34	150	43.750	40.500	1.625	RFL150-34A	PCF150-34A	PRB150-34A	10	CT029B	FLS045B	—	—
34	300	47.500	43.500	2.000	RFL300-34A	PCF300-34A	PRB300-34A	10	CT076B	FLS060B	—	—
34	400	47.500	43.500	2.125	RFL400-34A	—	—	10	CT076B	FLS065B	—	—
34	600	49.000	44.500	2.375	RFL600-34A	—	—	10	CT076B	FLS070B	—	—
34	900	55.000	48.250	3.625	RFL900-34A	—	—	10	CT076B	FLS080B	—	—
36	150	46.000	42.750	1.625	RFL150-36A	PCF150-36A	PRB150-36A	10	CT029B	FLS045B	—	—
36	300	50.000	46.000	2.125	RFL300-36A	PCF300-36A	—	10	CT076B	FLS065B	—	—
36	400	50.000	46.000	2.125	RFL400-36A	—	—	10	CT076B	FLS065B	—	—
36	600	51.750	47.000	2.625	RFL600-36A	—	—	10	CT076B	FLS075B	—	—
36	900	57.500	50.750	3.625	RFL900-36A	—	—	10	CT076B	FLS080B	—	—
38	150	48.750	45.250	1.625	RFL150-38A	—	—	10	CT080B	FLS045B	—	—
38	300	46.000	43.000	1.625	RFL300-38A	—	—	10	CT080B	FLS045B	—	—
38	400	47.500	44.000	1.875	RFL400-38A	—	—	10	CT080B	FLS055B	—	—
38	600	50.000	45.750	2.375	RFL600-38A	—	—	10	CT080B	FLS070B	—	—
38	900	57.500	50.750	3.625	RFL900-38A	—	—	10	CT080B	FLS080B	—	—
40	150	50.750	47.250	1.625	RFL150-40A	—	—	1	CT080B	FLS045B	—	—
40	300	48.750	45.500	1.750	RFL300-40A	—	—	1	CT080B	FLS050B	—	—
40	400	50.000	46.250	2.000	RFL400-40A	—	—	1	CT080B	FLS060B	—	—
40	600	52.000	47.750	2.375	RFL600-40A	—	—	1	CT080B	FLS070B	—	—
40	900	59.500	52.750	3.625	RFL900-40A	—	—	1	CT080B	FLS080B	—	—
42	150	53.000	49.500	1.625	RFL150-42A	—	—	1	CT080B	FLS045B	—	—
42	300	50.750	47.500	1.750	RFL300-42A	—	—	1	CT080B	FLS050B	—	—
42	400	52.000	48.250	2.000	RFL400-42A	—	—	1	CT080B	FLS060B	—	—
42	600	55.250	50.500	2.625	RFL600-42A	—	—	1	CT080B	FLS075B	—	—
44	150	55.250	51.750	1.625	RFL150-44A	—	—	1	CT080B	FLS045B	—	—
44	300	53.250	49.750	1.875	RFL300-44A	—	—	1	CT080B	FLS055B	—	—
44	400	54.500	50.500	2.125	RFL400-44A	—	—	1	CT080B	FLS065B	—	—
44	600	57.250	52.500	2.625	RFL600-44A	—	—	1	CT080B	FLS075B	—	—
46	150	57.250	53.750	1.625	RFL150-46A	—	—	1	CT080B	FLS045B	—	—
46	300	55.750	52.000	2.000	RFL300-46A	—	—	1	CT080B	FLS060B	—	—
46	400	56.750	52.750	2.125	RFL400-46A	—	—	1	CT080B	FLS065B	—	—
46	600	59.500	54.750	2.625	RFL600-46A	—	—	1	CT080B	FLS075B	—	—
48	150	59.500	56.000	1.625	RFL150-48A	—	—	1	CT080B	FLS045B	—	—
48	300	57.750	54.000	2.000	RFL300-48A	—	—	1	CT080B	FLS060B	—	—
48	400	59.500	55.250	2.375	RFL400-48A	—	—	1	CT080B	FLS070B	—	—

FULL-FACE FLANGE PROTECTORS

Flange Protection Discs

NEW

FASTENERS NOT REQUIRED

Specifications:
- Material: PolyCor™ Corrugated Polypropylene
- Color: Black

Features:
- Provides simple, cost-effective protection for flanges
- Covers full flange face - applied by strapping cable ties through bolt holes
- Wide range covers variety of DIN sizes and pressure ratings

DIN - PN 6 Range

Item No.	Nominal Pipe Size	Outside Ø	Bolt Circle Ø	Bolt Hole Size	Bulk Pack Qty.	Cable Tie Item No.
		mm	mm	mm		
PCL6DN10A	DN 10	75	50	11	50	CT022B
PCL6DN15A	DN 15	80	55	11	50	CT022B
PCL6DN20A	DN 20	90	65	11	50	CT022B
PCL6DN25A	DN 25	100	75	11	50	CT022B
PCL6DN32A	DN 32	120	90	14	50	CT022B
PCL6DN40A	DN 40	130	100	14	50	CT022B
PCL6DN50A	DN 50	140	110	14	50	CT022B
PCL6DN65A	DN 65	160	130	14	50	CT022B
PCL6DN80A	DN 80	190	150	18	50	CT022B
PCL6DN100A	DN 100	210	170	18	50	CT022B
PCL6DN125A	DN 125	240	200	18	50	CT022B
PCL6DN150A	DN 150	265	225	18	25	CT022B
PCL6DN200A	DN 200	320	280	18	25	CT022B
PCL6DN250A	DN 250	375	335	18	25	CT022B
PCL6DN300A	DN 300	440	395	22	25	CT022B
PCL6DN350A	DN 350	490	445	22	25	CT022B
PCL6DN400A	DN 400	540	495	22	10	CT022B
PCL6DN500A	DN 500	645	600	22	10	CT022B
PCL6DN600A	DN 600	755	705	24	10	CT022B

DIN - PN 10 Range

Item No.	Nominal Pipe Size	Outside Ø	Bolt Circle Ø	Bolt Hole Size	Bulk Pack Qty.	Cable Tie Item No.
		mm	mm	mm		
PCL10162540DN10A	DN 10	90	60	14	50	CT022B
PCL10162540DN15A	DN 15	95	65	14	50	CT022B
PCL10162540DN20A	DN 20	105	75	14	50	CT022B
PCL10162540DN25A	DN 25	115	85	14	50	CT022B
PCL10162540DN32A	DN 32	140	100	18	50	CT022B
PCL10162540DN40A	DN 40	150	110	18	50	CT022B
PCL10162540DN50A	DN 50	165	125	18	50	CT022B
PCL1016DN65A	DN 65	185	145	18	50	CT022B
PCL1016DN80A	DN 80	200	160	18	50	CT022B
PCL1016DN100A	DN 100	220	180	18	50	CT022B
PCL1016DN125A	DN 125	250	210	18	50	CT022B
PCL1016DN150A	DN 150	285	240	22	25	CT022B
PCL10DN200A	DN 200	340	295	22	25	CT022B
PCL10DN250A	DN 250	395	350	20	25	CT022B
PCL10DN300A	DN 300	445	400	22	25	CT022B
PCL10DN350A	DN 350	505	460	22	25	CT022B
PCL10DN400A	DN 400	565	515	26	10	CT022B
PCL10DN500A	DN 500	670	620	26	10	CT022B
PCL10DN600A	DN 600	780	725	27.	10	CT022B

DIN - PN 16 Range

Item No.	Nominal Pipe Size	Outside Ø	Bolt Circle Ø	Bolt Hole Size	Bulk Pack Qty.	Cable Tie Item No.
		mm	mm	mm		
PCL10162540DN10A	DN 10	90	60	14	50	CT022B
PCL10162540DN15A	DN 15	95	65	14	50	CT022B
PCL10162540DN20A	DN 20	105	75	14	50	CT022B
PCL10162540DN25A	DN 25	115	85	14	50	CT022B
PCL10162540DN32A	DN 32	140	100	18	50	CT022B
PCL10162540DN40A	DN 40	150	110	18	50	CT022B
PCL10162540DN50A	DN 50	165	125	18	50	CT022B
PCL1016DN65A	DN 65	185	145	18	50	CT022B
PCL1016DN80A	DN 80	200	160	18	50	CT022B
PCL1016DN100A	DN 100	220	180	18	50	CT022B
PCL1016DN125A	DN 125	250	210	18	50	CT022B
PCL1016DN150A	DN 150	285	240	22	25	CT022B
PCL16DN200A	DN 200	340	295	22	25	CT022B
PCL16DN250A	DN 250	405	355	26	25	CT022B
PCL16DN300A	DN 300	460	410	26	25	CT022B
PCL16DN350A	DN 350	520	470	26	10	CT022B
PCL16DN400A	DN 400	580	525	30	10	CT022B
PCL16DN500A	DN 500	715	650	33	10	CT022B
PCL16DN600A	DN 600	840	770	33	10	CT022B

DIN - PN 25 Range

Item No.	Nominal Pipe Size	Outside Ø	Bolt Circle Ø	Bolt Hole Size	Bulk Pack Qty.	Cable Tie Item No.
		mm	mm	mm		
PCL10162540DN10A	DN 10	90	60	14	50	CT025B
PCL10162540DN15A	DN 15	95	65	14	50	CT025B
PCL10162540DN20A	DN 20	105	75	14	50	CT025B
PCL10162540DN25A	DN 25	115	85	14	50	CT025B
PCL10162540DN32A	DN 32	140	100	18	50	CT025B
PCL10162540DN40A	DN 40	150	110	18	50	CT025B
PCL10162540DN50A	DN 50	165	125	18	50	CT025B
PCL2540DN65A	DN 65	185	145	18	50	CT025B
PCL2540DN80A	DN 80	200	160	18	50	CT025B
PCL2540DN100A	DN 100	235	190	22	50	CT025B
PCL2540DN125A	DN 125	270	220	26	25	CT025B
PCL2540DN150A	DN 150	300	250	26	25	CT025B
PCL25DN200A	DN 200	375	320	30	25	CT025B
PCL25DN250A	DN 250	450	385	33	25	CT025B
PCL25DN300A	DN 300	515	450	33	10	CT025B
PCL25DN350A	DN 350	580	510	36	10	CT025B
PCL25DN400A	DN 400	660	585	39	10	CT025B
PCL25DN500A	DN 500	755	670	42	10	CT025B
PCL25DN600A	DN 600	845	770	36	10	CT025B

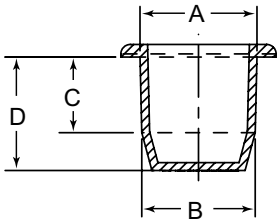
DIN - PN 40 Range

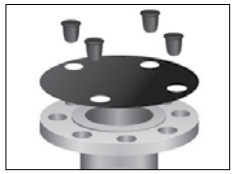
Part Number	Nominal Pipe Size	Outside Ø	Bolt Circle Ø	Bolt Hole Size	Bulk Pack Qty.	Cable Tie Item No.
		mm	mm	mm		
PCL10162540DN10A	DN 10	90	60	14	50	CT025B
PCL10162540DN15A	DN 15	95	65	14	50	CT025B
PCL10162540DN20A	DN 20	105	75	14	50	CT025B
PCL10162540DN25A	DN 25	115	85	14	50	CT025B
PCL10162540DN32A	DN 32	140	100	18	50	CT025B
PCL10162540DN40A	DN 40	150	110	18	50	CT025B
PCL10162540DN50A	DN 50	165	125	18	50	CT025B
PCL2540DN65A	DN 65	185	145	18	50	CT025B
PCL2540DN80A	DN 80	200	160	18	50	CT025B
PCL2540DN100A	DN 100	235	190	22	50	CT025B
PCL2540DN125A	DN 125	270	220	26	25	CT025B
PCL2540DN150A	DN 150	300	250	26	25	CT025B
PCL40DN200A	DN 200	375	320	30	25	CT025B
PCL40DN250A	DN 250	450	385	33	25	CT025B
PCL40DN300A	DN 300	515	450	33	10	CT025B
PCL40DN350A	DN 350	580	510	36	10	CT025B
PCL40DN400A	DN 400	660	585	39	10	CT025B
PCL40DN500A	DN 500	755	670	42	10	CT025B

Cable ties fastened through bolt holes secure disc to flange

FLANGE PROTECTOR FASTENERS

FLS Series
Flange Protector Retainer Plugs



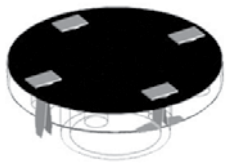


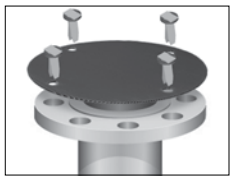
Specifications:
- Material: PVC
- Color: Black

Features:
- Used to secure the RFL, PCF and PRB Series on pages 99 - 101

Item No.	To Fit Bolt Hole in	A in	B in	C in	D in	Bulk Pack Qty.
FLS005B	5/8	0.640	0.625	0.750	1.130	3000
FLS010B	3/4	0.775	0.755	0.750	1.130	2000
FLS015B	7/8	0.900	0.880	0.820	1.200	2500
FLS020B	1	1.020	1.010	0.990	1.370	1500
FLS025B	1-1/8	1.165	1.135	1.000	1.380	1000
FLS030B	1-1/4	1.275	1.260	1.120	1.490	1000
FLS035B	1-3/8	1.410	1.390	1.360	1.740	750
FLS040B	1-1/2	1.545	1.510	1.370	1.730	750
FLS045B	1-5/8	1.665	1.645	1.360	1.730	500
FLS050B	1-3/4	1.770	1.750	1.360	1.700	400
FLS055B	1-7/8	1.905	1.875	1.630	2.000	300
FLS060B	2	2.035	2.000	1.630	2.000	250
FLS065B	2-1/8	2.160	2.125	1.630	2.000	200
FLS070B	2-3/8	2.410	2.375	1.750	2.130	100
FLS075B	2-5/8	2.660	2.625	1.750	2.130	50
FLS080B	3-5/8	3.660	3.625	1.750	2.130	50

PIN & WAS Series
Pins & Washers





Specifications:
- Material: See Table
- Color: See Table

Features:
- Pins and washers are used together to securely fasten the flange protectors to the flange
- Used to secure the RFL, PCF and PRB Series on pages 99 - 101

PIN Series

Item No.	Size in	Material & Color	Bulk Pack Qty.
PIN2-1/4B	2.25	Galvanized Steel	1000
PIN3-1/4B	3.25	Galvanized Steel	1000

WAS Series

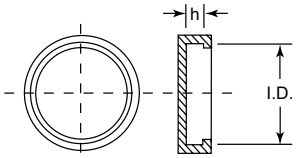
Item No.	Size in	Material & Color	Bulk Pack Qty.
WAS1-3/8A	1.375	HDPE Black	800
WAS1-3/4A	1.75	HDPE Black	800
WAS1-3/4B	1.75	Galvanized Steel	2000

3" to 59"
CABLE TIES
Millions In Stock Ready for Same Day Shipping
Call or go online to request FREE samples!

FULL-FACE FLANGE PROTECTORS

FF Series
Flexible Protectors

How to Measure a Flange & Pick a Protector
See Page 107



Specifications:
- Material: Flexible Polyethylene
- Color: Yellow
- Suitable for ANSI B16.5 Flanges

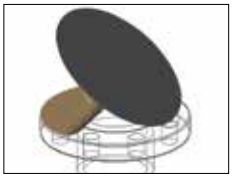
Features:
- Provides complete all-around flange protection including bolt holes
- Material is durable, yet flexible enough to provide an easy fit
- Requires no fasteners

Item No.	Nominal Pipe Size in	Class Pressure Rating	Actual ID in	Height h	Bulk Pack Qty.
FF31836A	1/2	150	3.500	0.441	500
FF31963A	1/2	300	3.750	0.559	500
FF31963A	1/2	400	3.750	0.559	500
FF31963A	1/2	600	3.750	0.559	500
FF31837A	3/4	150	3.940	0.480	250
FF31965A	3/4	300	4.618	0.618	100
FF31965A	3/4	400	4.618	0.618	100
FF31965A	3/4	600	4.618	0.618	100
FF31887A	1	150	4.250	0.559	600
FF31938A	1	300	4.881	0.689	400
FF31938A	1	400	4.881	0.689	400
FF31938A	1	600	4.881	0.689	400
FF31965A	1-1/4	150	4.618	0.618	100
FF34260A	1-1/4	300	5.251	0.748	40
FF110321A	1-1/2	150	5.000	0.689	300
FF31886A	1-1/2	300	6.118	0.811	250
FF31791A	2	150	6.000	0.752	200
FF31783A	2	300	6.515	0.885	150
FF32313A	2-1/2	150	7.000	0.882	100
FF31888A	2-1/2	300	7.500	1.000	100
FF31766A	3	150	7.500	0.940	125
FF31867A	3	300	8.250	1.118	50
FF34262A	3-1/2	150	8.500	0.940	75

Item No.	Nominal Pipe Size in	Class Pressure Rating	Actual ID in	Height h	Bulk Pack Qty.
FF34263A	3-1/2	300	9.000	1.189	50
FF31763A	4	150	9.000	0.940	75
FF31868A	4	300	10.000	1.250	30
FF34265A	5	150	10.000	0.941	30
FF34266A	5	300	11.000	1.378	35
FF31760A	6	150	11.000	1.000	50
FF31869A	6	300	12.500	1.437	25
FF31870A	8	150	13.500	1.118	30
FF31871A	8	300	15.000	1.618	10
FF31872A	10	150	16.000	1.189	35
FF31873A	10	300	17.500	1.878	24
FF31874A	12	150	19.090	1.181	25
FF31875A	12	300	20.500	2.000	10
FF31876A	14	150	21.000	1.382	10
FF31847A	14	300	23.000	2.118	10
FF31877A	16	150	23.500	1.441	10
FF31878A	16	300	25.500	2.248	6
FF31879A	18	150	25.000	1.559	8
FF31880A	18	300	28.000	2.378	10
FF31881A	20	150	27.500	1.689	50
FF31882A	20	300	30.500	2.500	10
FF31943A	24	150	32.000	1.882	8
FF32088A	24	300	36.000	2.748	5

PG Series
Adhesive Peel & Stick Full-Face Protectors

Specifications:
- Material: Polyethylene
- Color: Black
- Meets ANSI B16.5 and ASME B16.47 specification



Features:
- 150 lb. rating
- Adhesive backed, peel and stick design
- Full-face OD flange protection
- Special adhesive bonds tightly and leaves no residue under normal conditions
- Requires no fasteners

Item No.	Nominal Pipe Size in	Actual OD in	Bulk Pack Qty.
PG150-1/2A	1/2	3.500	50
PG150-3/4A	3/4	3.875	25
PG150-1A	1	4.250	50
PG150-1-1/4A	1-1/4	4.625	50
PG150-1-1/2A	1-1/2	5.000	50
PG150-2A	2	6.000	50
PG150-2-1/2A	2-1/2	7.000	50

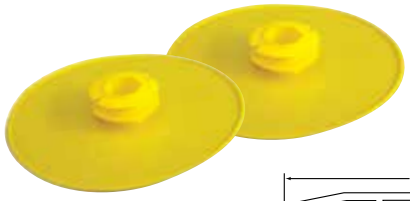
Item No.	Nominal Pipe Size in	Actual OD in	Bulk Pack Qty.
PG150-3A	3	7.500	50
PG150-3-1/2A	3-1/2	8.500	25
PG150-4A	4	9.000	50
PG150-5A	5	10.000	50
PG150-6A	6	11.000	25
PG150-8A	8	13.500	25
PG150-10A	10	16.000	25
PG150-12A	12	19.000	25

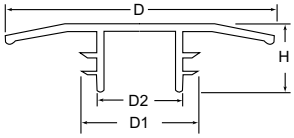
Item No.	Nominal Pipe Size in	Actual OD in	Bulk Pack Qty.
PG150-14A	14	21.000	25
PG150-16A	16	23.500	25
PG150-18A	18	25.000	25
PG150-20A	20	27.500	10
PG150-24A	24	32.000	10
PG150-30A	30	38.750	10
PG150-36A	36	46.000	10

FULL-FACE FLANGE PROTECTORS

How to Measure a Flange & Pick a Protector
See Page 107

PI Series
Push-In Full-Face Protectors





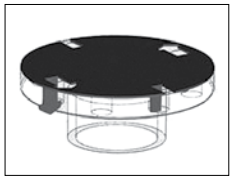
Specifications:
- Material: Polyethylene
- Color: Yellow
- Meets ANSI B16.5 Class 150 flanges, DN2627-2638 and BS5504 flanges

Features:
- The flexible fins ensure a snug fit into the bore every time
- Requires no fasteners

Item No.	Nominal Pipe Size		D2		D1		D		H		Bulk Pack Qty.
	in	DIN	in	mm	in	mm	in	mm	in	mm	
PI10A	3/8	DN 10	0.275	6.98	0.555	14.09	3.385	85.97	0.606	15.39	700
PI15A	1/2	DN 15	0.358	9.09	0.755	19.17	3.543	89.99	0.633	16.07	500
PI20A	3/4	DN 20	0.563	14.30	0.944	23.97	3.937	99.99	0.830	21.08	350
PI25A	1	DN 25	0.724	18.38	1.177	29.89	4.330	109.98	0.826	20.98	600
PI32A	1-1/4	DN 32	0.885	22.47	1.539	39.09	5.354	135.99	0.787	19.98	500
PI40A	1-1/2	DN 40	1.181	29.99	1.771	44.98	5.748	145.99	0.826	20.98	200
PI50A	2	DN 50	1.574	39.97	2.204	55.98	6.299	159.99	0.799	20.29	150
PI65A	2-1/2	DN 65	2.086	52.98	2.834	71.98	7.126	181.00	0.807	20.49	200
PI80A	3	DN 80	2.637	66.97	3.346	84.98	7.677	194.99	0.972	24.68	150
PI100A	4	DN 100	3.543	89.99	4.301	109.24	8.543	216.99	0.929	23.59	100
PI125A	5	DN 125	4.370	110.99	5.275	133.98	9.685	245.99	1.027	26.08	70
PI150A	6	DN 150	5.492	139.49	6.456	163.98	11.023	279.98	1.267	32.18	50
PI200A	8	DN 200	7.362	186.94	8.212	208.58	13.228	335.99	1.318	33.47	25
PI250A	10	DN 250	9.606	243.99	10.472	265.98	15.866	403.50	1.401	35.58	15
PI300A	12	DN 300	11.181	283.99	12.559	318.99	17.716	449.98	1.909	48.48	5

OFP Series
Self-Locking Protectors

Specifications:
- Material: Polyethylene
- Color: Black
- Meets ANSI B16.5 and ASME B16.47 specification



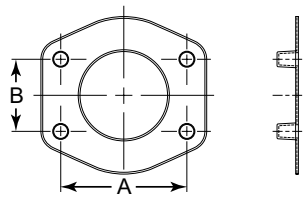
Features:
- Fast, easy installation and removal
- Four integral arrows push through the flange bolt holes to fasten the OFP firmly in place
- Requires no fasteners

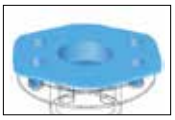
Nominal Pipe Size	Class Pressure Rating	Actual OD	Item No.	Bulk Pack Qty.
in		in		
1/2	150	3.500	**OFP150-1/2A**	50
1/2	300	3.750	**OFP300-1/2A**	500
1/2	400	3.750	**OFP300-1/2A**	500
1/2	600	3.750	**OFP300-1/2A**	500
3/4	150	3.875	**OFP150-3/4A**	500
3/4	300	4.625	**OFP300-3/4A**	300
3/4	400	4.625	**OFP300-3/4A**	300
3/4	600	4.625	**OFP300-3/4A**	300
1	150	4.250	**OFP150-1A**	50
1	300	4.875	**OFP300-1A**	300
1	400	4.875	**OFP300-1A**	300
1	600	4.875	**OFP300-1A**	300
1-1/4	300	5.250	**OFP300-1-1/4A**	50
1-1/4	400	5.250	**OFP300-1-1/4A**	50
1-1/4	600	5.250	**OFP300-1-1/4A**	50
1-1/2	150	5.000	**OFP150-1-1/2A**	200
1-1/2	300	6.125	**OFP300-1-1/2A**	200
2	150	6.000	**OFP150-2A**	50
2	300	6.500	**OFP300-2A**	50
2-1/2	150	7.000	**OFP150-2-1/2A**	50
2-1/2	300	7.500	**OFP300-2-1/2A**	50
3	150	7.500	**OFP150-3A**	50
3	300	8.250	**OFP300-3A**	50
3-1/2	150	8.500	**OFP150-3-1/2A**	200
3-1/2	300	9.000	**OFP300-3-1/2A**	50

Nominal Pipe Size	Class Pressure Rating	Actual OD	Item No.	Bulk Pack Qty.
in		in		
4	150	9.000	**OFP150-4A**	50
4	300	10.000	**OFP300-4A**	50
5	150	10.000	**OFP150-5A**	50
5	300	11.000	**OFP300-5A**	25
6	150	11.000	**OFP150-6A**	25
6	300	12.500	**OFP300-6A**	50
8	150	13.500	**OFP150-8A**	50
8	300	15.000	**OFP300-8A**	50
10	150	16.000	**OFP150-10A**	50
10	300	17.500	**OFP300-10A**	50
12	150	19.000	**OFP150-12A**	50
12	300	20.500	**OFP300-12A**	10
14	150	21.000	**OFP150-14A**	10
14	300	23.000	**OFP300-14A**	10
16	150	23.500	**OFP150-16A**	10
16	300	25.500	**OFP300-16A**	10
18	150	25.000	**OFP150-18A**	10
18	300	28.000	**OFP300-18A**	10
20	150	27.500	**OFP150-20A**	10
20	300	30.500	**OFP300-20A**	10
22	150	29.500	**OFP150-22A**	10
24	150	32.000	**OFP150-24A**	10
24	300	36.000	**OFP300-24A**	10
30	150	38.750	**OFP150-30A**	10

CODE 61 & 62 FLANGE PROTECTORS

BFP & XP Series
SAE J518 Quick Fit Flange Protectors





Specifications:
- Material: Polyethylene
- Color: See Table

Features:
- The BFP series are used to protect SAE Code 61 3000 PSI flanges
- The XP series are used to protect SAE Code 62 6000 PSI flanges
- Provides full coverage with lugs firmly positioned into bolt holes
- Requires no fasteners

Item No.	Nominal Pipe Size in	Class Pressure Rating	A in	B in	Color	Bulk Pack Qty.
BFP1/2A	1/2	3000	1.500	0.688	Blue	2000
XP1/2A	1/2	3000	1.594	0.718	Red	2000
BFP3/4A	3/4	3000	1.875	0.875	Blue	1000
XP3/4A	3/4	6000	2.000	0.937	Red	1000
BFP1A	1	3000	2.062	1.031	Blue	1000
XP1A	1	6000	2.250	1.093	Red	700
BFP1-1/4A	1-1/4	3000	2.312	1.188	Blue	700
XP1-1/4A	1-1/4	6000	2.625	1.250	Red	500
BFP1-1/2A	1-1/2	3000	2.750	1.406	Blue	450

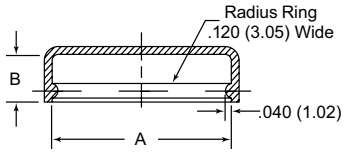
Item No.	Nominal Pipe Size in	Class Pressure Rating	A in	B in	Color	Bulk Pack Qty.
XP1-1/2A	1-1/2	6000	3.125	1.437	Red	400
BFP2A	2	3000	3.062	1.688	Blue	400
XP2A	2	6000	3.812	1.750	Red	250
BFP2-1/2A	2-1/2	3000	3.500	2.000	Blue	300
BFP3A	3	3000	4.188	2.438	Blue	50
BFP3-1/2A	3 -1/2	3000	4.750	2.750	Blue	50
BFP4A	4	3000	5.125	3.062	Blue	50
BFP5A	5	3000	6.000	3.625	Blue	30

Q & HP Series
SAE J518 Split-Flange Covers

LINE EXTENSION

Specifications:
- Material: Polyethylene
- Color: Natural

Features:
- The Q Series are used on SAE Code 61 3000 PSI high pressure flanges
- The HP Series are used on SAE Code 62 6000 PSI high pressure flanges
- Protects machined surfaces on split flanged connections
- Manufactured in a natural translucent polyethylene so the O-Ring assembled on the flange remains visible through the cap
- The internal-locking bead design provides a secure fit
- Requires no fasteners



Item No.	Nominal Flange Size in	Code	Class Pressure Rating	A in	B in	Bulk Pack Qty.
Q1A	1/2	61	3000	1.190	0.390	2500
Q2A	5/8	61	3000	1.330	0.415	4000
Q3A	3/4	61	3000	1.510	0.435	3000
HP12A	3/4	62	6000	1.610	0.546	2200
Q4A	1	61	3000	1.760	0.465	2000
HP16A	1	62	6000	1.860	0.578	1600
Q5A	1-1/4	61	3000	1.971	0.465	1700
HP20A	1-1/4	62	6000	2.110	0.609	1200

Item No.	Nominal Flange Size in	Code	Class Pressure Rating	A in	B in	Bulk Pack Qty.
Q6A	1-1/2	61	3000	2.385	0.465	1200
HP24A	1-1/2	62	6000	2.485	0.690	750
Q7A	2	61	3000	2.810	0.585	750
HP32A	2	62	6000	3.110	0.690	500
Q8A	2-1/2	61	3000	3.310	0.500	550
• Q9A	4	61	3000	4.000	0.500	500
• Q11A	4-1/2	61	3000	4.500	0.570	250
• Q12A	5	61	3000	5.000	0.570	250

DON'T FORGET YOUR FITTINGS!

R Series
Square Head
NPT Threads

TSSP Series
Positive Sealing for
Metric/BSP Threads

PFP Series
NPT Threads
(O-Ring Option)

BL Nylon Series
Tough/Higher Temp
For Standard Threads
(O-Ring Option)

G Series
UNF/JIC Threads for
Flared/Flareless Fittings

TF Series
Flat Faced O-Ring
Hydraulic Fitting Threads

BLM Series
Molded O-Ring Unified
Standard Threads

DC Series
UNJ/UNJS Threads

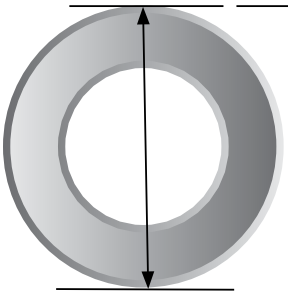
EZP Series
Easy Pull for Unified
Standard/Metric Threads

UN Series
Quick Fit for Standard
JIC/Metric/BSP Threads

To Request Free Samples Call 800 847 0486 Or Visit www.essentracomponents.com

HOW TO MEASURE A PIPE OR FLANGE

HOW TO MEASURE A STEEL PIPE & PICK A PIPE CAP



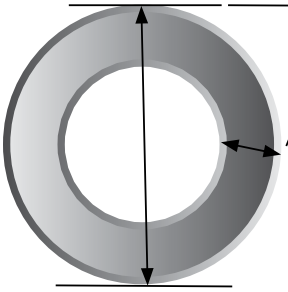
Pipe O.D. (Measurement)	Nominal Pipe Size (In)
0.405 (10.3)	1/8
0.540 (13.7)	1/4
0.675 (17.1)	3/8
0.840 (21.3)	1/2
1.050 (26.7)	3/4
1.315 (33.4)	1
1.660 (42.2)	1-1/4
1.900 (48.3)	1-1/2
2.375 (60.3)	2
2.875 (73.0)	2-1/2
3.500 (88.9)	3
4.000 (101.6)	3-1/2
4.500 (114.3)	4
5.563 (141.3)	5
6.625 (168.3)	6
8.625 (219.1)	8
10.750 (273.0)	10
12.750 (323.8)	12

1. Measure the pipe OD as shown above.
2. Refer to the chart to the right and locate the pipe OD.
3. The 2nd column to is the Nominal Pipe Size of the pipe.
4. Refer to any pipe cap series on pages 92-93.
5. Find your nominal pipe size on the series table.

Item No.	Nominal Pipe Size (In)	Actual ID In	Height (h) In	Color	Pack Qty.
RRC1/8A	1/8	0.385	0.485	Yellow	1
RRC1/4A	1/4	0.516	0.490		1
RRC3/8A	3/8	0.660	0.538		1
RRC1/2A	1/2	0.840	0.747		1

EXAMPLE

HOW TO MEASURE A STEEL PIPE & PICK A PIPE PLUG



Pipe O.D. (Measurement)	Nominal Pipe Size (In)	Wall Thickness (Measurement)	Schedule No.
0.405 (10.3)	1/8	.068 (1.73)	40
		.095 (2.41)	80
0.540 (13.7)	1/4	.088 (2.23)	40
		.119 (3.02)	80
0.675 (17.1)	3/8	.091 (2.31)	40
		.126 (3.20)	80
0.840 (21.3)	1/2	.109 (2.77)	40
		.147 (3.73)	80
1.050 (26.7)	3/4	.113 (2.87)	40
		.154 (3.91)	80
1.315 (33.4)	1	.133 (3.38)	40
		.179 (4.55)	80
1.660 (42.2)	1-1/4	.140 (3.56)	40
		.191 (4.85)	80
1.900 (48.3)	1-1/2	.145 (3.68)	40
		.200 (5.08)	80
2.375 (60.3)	2	.154 (3.91)	40
		.218 (5.54)	80
2.875 (73.0)	2-1/2	.203 (5.16)	40
		.276 (7.01)	80
3.500 (88.9)	3	.216 (5.49)	40
		.300 (7.62)	80
4.000 (101.6)	3-1/2	.226 (5.74)	40
		.318 (8.08)	80
4.500 (114.3)	4	.237 (6.02)	40
		.337 (8.56)	80
5.563 (141.3)	5	.258 (6.55)	40
		.375 (9.52)	80
6.625 (168.3)	6	.280 (7.11)	40
		.432 (10.97)	80
8.625 (219.10)	8	.322 (8.18)	40
		.500 (12.70)	80
10.750 (273.0)	10	.365 (9.27)	40
		.594 (15.09)	80
12.750 (323.8)	12	.406 (10.31)	40
		.688 (17.48)	80

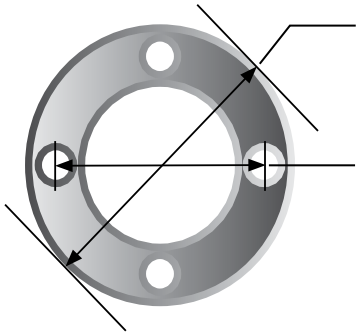
1. Measure the pipe OD and wall thickness as shown above.
2. Refer to the chart to the right and locate the pipe OD.
3. The 2nd column is the Nominal Pipe Size of the pipe.
4. Refer to any pipe plug series on pages 94 - 96.
5. Find your nominal pipe size on the series table.
6. That is the correct size plug for your pipe.

Nominal Pipe Size (In)	Schedule	Item No.	Color	Pack Qty.
1/8	40	004A	Blue	450
1/8	80	002A	Blue	500
1/4	40	008A	Blue	1
1/4	80			

EXAMPLE

Plugs for other pipe schedules available. Contact Essentra for details.

HOW TO MEASURE A FLANGE & PICK A PROTECTOR



1. Measure your flange's OD and its Bolt Circle Diameter as shown.
2. Refer to the RFL, PCF, and PRB on pages 99 - 101 and locate your Actual (OD) and Bolt Circle Diameter.
3. Any of the part numbers shown in the part number columns to the right of the Bolt Circle Diameter column will work on your flange.

HOSE PROTECTION, BUNDLING & SECURING

SPIRAL WRAP HOSE PROTECTION 110

SLEEVE HOSE PROTECTION ..... 111 - 112

POINT OF CONTACT PROTECTORS 113

HEAT & FLAME HOSE PROTECTION ..... 114 - 115

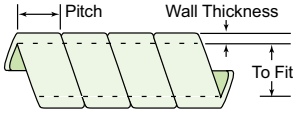
HOSE TIES & CLAMPS ..... 115 - 117

HOSE CINCH STRAPS 117

HOSE PROTECTION, BUNDLING & SECURING

SPIRAL WRAP HOSE PROTECTION

SGX Series
TECTORGUARD® Heavy & Medium Duty Hose Guards



Specifications:
- Material: High-Density Polyethylene
- Color: Black

Features:
- TECTORGUARD® protects against cuts, abrasions, crushing and ultraviolet rays that regularly destroy expensive hoses
- Easy and safe to install either before or after the hose assembly is mounted
- The heavy-duty, double-beveled design on the inside and outside edge prevents snagging or cutting during installation

Heavy Duty - Heavy Abrasion

Item No.	To Fit	Wall Thickness		Pitch		Roll Length		Pack Qty.
	in	in	mm	in	mm	ft	m	
SGX16HA	0.492	0.069	1.75	0.490	12.45	100	30.48	1
SGX20HA	0.668	0.086	2.18	0.610	15.49	100	30.48	1
SGX25HA	0.750	0.110	2.79	0.950	24.13	100	30.48	1
SGX32HA	1.014	0.118	2.99	1.040	26.42	100	30.48	1
SGX39HA	1.250	0.132	3.35	1.350	34.29	100	30.48	1
SGX45HA	1.500	0.140	3.55	1.500	38.10	100	30.48	1
SGX50HA	1.600	0.150	3.81	1.530	38.68	50	15.24	1
SGX59HA	2.000	0.160	4.06	1.600	40.64	100	30.48	1
SGX75HA	2.457	0.209	5.30	1.610	40.89	50	15.24	1
SGX90HA	3.064	0.218	5.53	1.970	50.04	35	10.66	1
SGX102HA	3.500	0.250	6.35	1.950	49.53	25	7.62	1
SGX114HA	4.000	0.250	6.35	2.100	53.34	20	6.09	1
SGX165HA	6.000	0.250	6.35	4.000	101.60	15	4.57	1

Medium Duty - Flexible with Medium Abrasion

Item No.	To Fit	Wall Thickness		Pitch		Roll Length		Pack Qty.
	in	in	mm	in	mm	ft	m	
SGX16MA	0.492	0.045	1.14	0.490	12.45	100	30.48	1
SGX20MA	0.668	0.052	1.32	0.610	15.49	100	30.48	1
SGX25MA	0.750	0.062	1.57	0.800	20.32	100	30.48	1
SGX32MA	1.014	0.071	1.80	1.040	26.42	100	30.48	1
SGX39MA	1.250	0.080	2.03	1.350	34.29	100	30.48	1
SGX50MA	1.600	0.090	2.28	1.530	38.86	50	15.24	1
SGX75MA	2.457	0.125	3.17	1.610	40.89	50	15.24	1
SGX90MA	3.064	0.131	3.32	1.970	50.04	35	10.66	1

How to calculate quantity of Spiralguard® required

Outside diameter of hose / Inside diameter of Spiralguard® X Length (ft) of hose to be covered

Example OD of Hose: **.93"**
SGX75HA ID = **.75"**
Length to wrap = **25 Feet**
.93"/.75" = 1.24 X 25 = 31 Feet Required

SGX FRAS Series
SPIRALGUARD® Flame Retardant Antistatic Series

SPIRALGUARD®

MINE SAFETY APPROVED

Specifications:
- Material: High-Density Polyethylene
- Color: Dark Gray

Features:
- Exceptional anti-crushing performance
- High abrasion resistance
- Good resistance to UV rays
- Reduces risk of industrial injury
- Suitable for wrapping single or multiple hoses
- Proven in arduous conditions
- Suitable for the protection of most types of hydraulic, pneumatic and industrial hose assemblies across a wide range of industries: mining, quarrying, drilling, tunnelling, forestry, welding, manufacturing, agricultural, automotive, marine sub-sea, offshore oil and gas construction

Approvals and Standards:
- Tested and approved in accordance with the former British Coal specification 182:1986, satisfying the requirements of the non-metallics scheme for use underground
- Tested and approved by Mine Safety Laboratory, Department of Mineral Resources NSW to AS2660 FRAS Compliance - 1991 International Standard: ISO6805
- Patented product US6286557B1

Item No.	To Fit	Wall Thickness		Pitch		Roll Length		Pack Qty.
	in	in	mm	in	mm	ft	m	
SGX16FRASA	0.472	0.089	2.25	0.510	12.95	65.62	20	1
SGX20FRASA	0.591	0.098	2.50	0.610	15.49	65.62	20	1
SGX25FRASA	0.748	0.108	2.75	0.750	19.05	65.62	20	1
SGX32FRASA	0.906	0.138	3.50	0.900	22.86	65.62	20	1
SGX40FRASA	1.201	0.167	4.25	1.140	28.96	65.62	20	1
SGX50FRASA	1.496	0.167	4.25	1.420	36.07	65.62	20	1
SGX63FRASA	1.850	0.217	5.50	1.550	39.37	65.62	20	1
SGX75FRASA	2.402	0.236	6.00	1.730	43.94	65.62	20	1
SGX90FRASA	2.776	0.276	7.00	2.000	50.80	65.62	20	1
SGX110FRASA	3.307	0.295	7.50	2.200	55.88	32.81	10	1

NYLON SLEEVE HOSE PROTECTION

Mining Safety Approved Sleeves

MINE SAFETY APPROVED

Specifications:
- Material: Nylon 6
- Color: Black

Features:
- Protects people, environment and machinery against hydraulic hose oil leakage or spills
- High degree of burst resistance with optimum UV and abrasion protection
- Very dense but not bulky
- Excellent chemical compatibility with gasoline and oils

Item No.	Round ID		Flat Width		Roll Length		Pack Qty.
	in	mm	in	mm	ft	m	
900500	0.68	17.2	1.30	33.00	300	91.44	1
900502	0.79	20.0	1.40	35.60	300	91.44	1
900504	0.91	23.1	1.58	40.22	300	91.44	1
900506	0.98	24.9	1.73	43.90	300	91.44	1
900508	1.06	26.9	1.82	46.35	300	91.44	1
900510	1.22	30.9	2.05	52.07	300	91.44	1
900512	1.42	36.1	2.47	62.71	300	91.44	1
900514	1.57	39.9	2.60	66.04	300	91.44	1
900516	1.73	43.9	2.90	73.72	300	91.44	1
900518	1.85	47.0	3.03	77.00	300	91.44	1
900520	2.17	55.1	3.43	87.24	300	91.44	1
900522	2.36	59.9	3.79	96.23	300	91.44	1
900524	2.62	66.5	4.27	108.43	300	91.44	1
900526	2.87	72.9	4.55	115.57	300	91.44	1
900528	3.66	93.0	5.91	150.08	300	91.44	1
900530	4.41	112.0	7.05	179.07	300	91.44	1

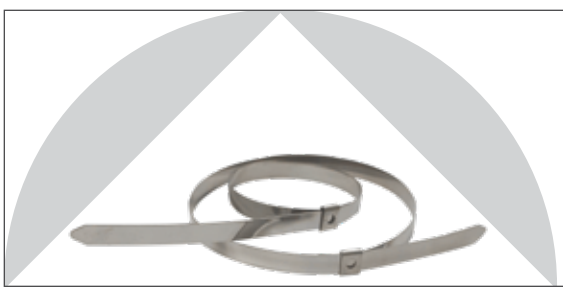
Approvals and Standards:
- MSHA approved
- Meets ISO 6945 abrasion standard
- Meets FED-STD-191 test method 5309 for abrasion resistance
- Meets ASTM D6770 for abrasion resistance of textile sleeve

TQS Series
Quick Assemble Hose Sleeve

Specifications:
- Material: Nylon with a Urethane coating on one side
- Color: Black

Features:
- Excellent for use in the field or for applications where the winding of spiral-formed products is very difficult
- Resistant to heat, ozone and abrasion
- Special innovative Python® hook-and-loop design closure promotes a quick and easy bundling of hose groups
- Close quarter operator protection from hose failures
- Easy assembly and removal
- Containment of hoses and tighter bundling
- Professional appearance - enhances the aesthetics of your equipment

Item No.	Bundle OD		Flat Width		Roll Length		Pack Qty.
	In	mm	In	m	ft	m	
TQS2A	2	50.80	7.750	196.85	150	45.72	1
TQS3A	3	76.20	10.900	276.86	150	45.72	1
TQS4A	4	101.60	14.000	355.60	150	45.72	1
TQS5A	5	127.00	17.250	438.15	150	45.72	1
TQS6A	6	152.40	20.380	517.65	150	45.72	1
TQS7A	7	177.80	23.500	596.90	150	45.72	1
TQS8A	8	203.20	26.620	676.15	150	45.72	1



SMOOTH ID
PUNCHING **TIES**

NEW!

Smooth ID // Low Profile

In stock and ready to ship! See page 116.

SLEEVE HOSE PROTECTION

Hose and Cable Protection Sleeves

MINE SAFETY APPROVED

Approvals and Standards:
- MSHA approved
- Meets ISO 6945 abrasion standard

Specifications:
- Material: Polyester
- Color: Black

Features:
- Most economical MSHA approved sleeve protection option
- Lightweight but high strength and abrasion resistance
- Protects people, environment and machinery against hydraulic hose ruptures

Item No.	Flattened Width		Round ID		Roll Length		Pack Qty.
	in	mm	in	mm	ft	m	
900359	0.787	20	0.472	12	100	30.5	1
900344	0.984	25	0.591	15	100	30.5	1
900345	1.181	30	0.748	19	100	30.5	1
900346	1.378	35	0.866	22	100	30.5	1
900347	1.575	40	0.984	25	100	30.5	1
900348	1.772	45	1.102	28	100	30.5	1
900349	1.969	50	1.220	31	100	30.5	1
900350	2.362	60	1.496	38	100	30.5	1
900351	2.756	70	1.732	44	100	30.5	1
900352	3.150	80	1.969	50	100	30.5	1
900353	3.543	90	2.244	57	100	30.5	1
900354	3.937	100	2.362	60	100	30.5	1
900355	4.528	115	2.756	70	50	15.2	1
900356	5.709	145	3.543	90	50	15.2	1
900357	6.929	176	4.331	110	50	15.2	1
900358	7.874	200	4.921	125	50	15.2	1

Quick Assemble Hose or Cable Sleeves

Specifications:
- Material: Sleeve - Polyester
- Material: Hook & Loop - Polyamide
- Color: Black

Features:
- Lightweight but high strength and abrasion resistance
- Easy assembly and removal
- Breakouts are simple by bringing out through the hook and loop

Item No.	ID		Spread Width		Roll Length		Pack Qty.
	in	mm	in	m	ft	m	
900328	0.787	20	3.149	80	82	25	1
900329	0.984	25	3.740	95	82	25	1
900330	1.181	30	4.527	115	82	25	1
900331	1.377	35	5.118	130	82	25	1
900332	1.574	40	5.748	146	82	25	1
900333	1.771	45	6.377	162	82	25	1
900334	1.968	50	7.007	178	82	25	1

Textile Heatshrink Sleeves

Specifications:
- Material: Polyester and Polyolefin
- Color: Black
- Shrink Ratio: 2:1
- Minimum shrink temperature: 176°F (80°C)
- Minimum full recovery temperature: 248°F (120°C)

Features:
- Provides excellent abrasion resistance and noise reduction
- Easily installed over connectors, fittings, splices, cables and hoses

Item No.	Nominal Size		As Supplied ID		After Recovery ID		Roll Length		Pack Qty.
	in	mm	in	mm	in	mm	ft	m	
900317	0.375	10	0.393	10	0.196	5.0	100	30.5	1
900318	0.500	12	0.472	12	0.236	6.0	100	30.5	1
900319	0.750	20	0.787	20	0.393	10.0	100	30.5	1
900320	1.000	25	0.984	25	0.492	12.5	100	30.5	1
900321	1.250	30	1.181	30	0.59	15.0	100	30.5	1
900322	1.338	34	1.338	34	0.669	17.0	100	30.5	1
900323	1.500	40	1.574	40	0.787	20.0	100	30.5	1
900324	2.000	50	1.968	50	0.984	25.0	100	30.5	1
900325	2.375	60	2.362	60	1.181	30.0	100	30.5	1
900326	2.750	70	2.755	70	1.377	35.0	100	30.5	1
900327	3.125	80	3.149	80	1.574	40.0	100	30.5	1

THP Series
Point of Contact Protectors

Specifications:
- Material: PVC
- Color: See Table

Features:
- Protects hose and wire abrasion caused by points of contact wear with frames or other abrasive surfaces
- Material is very durable and has a high wear factor
- Molded grooves prevent the slipping and wear of cable ties
- Easy to assemble and remove
- Typically used on hydraulic hoses, fuel and oil lines, brake systems, wiring harnesses and battery cables
- The THPSD4B is to be used on 1/2" hoses and smaller since it is designed with a smaller radius

Item No.			Length
Black	Orange	Yellow	in
THPSD4B	—	—	4
THP4B	THP4A	THP4C	4
THP6B	THP6A	THP6C	6
THP8B	THP8A	THP8C	8
THP10B	THP10A	THP10C	10
THP12B	THP12A	THP12C	12

Each THP Series Requires 3 Ties

CT Series
Nylon Locking Cable Tie

Specifications:
- Material: UL Approved 94V-2 Nylon 6/6
- Color: See Table
- Temperature Range: -40°F to 185°F (-40°C to 85°C)

Features:
- Complies with MS-3367 and MIL-S-23190E
- RoHS Compliant

Item No.						
Natural	Black	Green	Red	Yellow	Blue	Silver
CT025A	CT025B	CT025G	CT025K	CT025Y	CT025L	CT025S

Length		Width		Maximum Bundle Dia.		Minimum Tensile Strength			
in	mm	in	mm	in	mm	lbs	kgs	Classification	Bulk Pack Qty.
11-7/8	300	0.189	4.8	3.350	85	50	222	Standard	100

HEAT & FLAME HOSE PROTECTION

Fire Protection Sleeve

Specifications:

- Material: Outer Sleeve - Proprietary Iron Oxide Red Silicone Rubber
- Material: Inner Sleeve - Knitted High Bulk Glass Fiber

Features:

- Has excellent elasticity great for protecting or bundling hoses, tubes and cables in a variety of hostile environments
- The insulation properties provide close quartered personnel with effective protection against burns from hot hoses and reduce heat energy loss
- Withstands intense radiant heat and flame
  - Continuous exposure up to 500°F (260°C)
  - 15-20 minutes up to 2000°F (1090°C)
  - 15-30 seconds up to 3000°F (1650°C)
- Immediately sheds splash
  - Withstands repeated exposures to molten steel, molten aluminum and molten glass up to 3000°F (1650°C)

FPS Series Fire Protection Sleeve

Item No.	ID	Roll Length	Pack Qty.
	in	ft	
FPS1/4A	1/4	50	1
FPS5/16A	5/16	50	1
FPS3/8A	3/8	50	1
FPS1/2A	1/2	50	1
FPS5/8A	5/8	50	1
FPS3/4A	3/4	50	1
FPS7/8A	7/8	50	1
FPS1A	1	50	1
FPS1-1/4A	1-1/4	50	1
FPS1-1/2A	1-1/2	50	1
FPS2A	2	50	1
FPS2-1/2A	2-1/2	50	1
FPS3A	3	50	1
FPS3-1/2A	3-1/2	50	1
FPS4A	4	50	1

UL Certified and VW-1 Flame Resistant Fire Protection Sleeve

Thicker, denser inner glass fiber than our standard Fire Protection Sleeve, which gives higher insulation values, increased strength and enhanced abrasion resistance

Item No.	ID	Roll Length	Pack Qty.
	in	ft	
FPSA3/8A	3/8	50	1
FPSA5/8A	5/8	100	1
FPSA3/4A	3/4	100	1
FPSA7/8A	7/8	50	1
FPSA1A	1	50	1
FPSA1-1/4A	1-1/4	50	1
FPSA1-3/8A	1-3/8	100	1
FPSA1-3/4A	1-3/4	100	1
FPSA2-3/8A	2-3/8	50	1
FPSA2-3/4A	2-3/4	50	1
FPSA3-1/2A	3-1/2	50	1

Thermal Protection Sleeve

Specifications:

- Material: Nomex™ Fiber
- Color: Natural

Features:

- Provides thermal protection and high abrasion resistance
- Soft feel and smooth appearance makes installation easy
- Cuts easily with standard scissors
- Temperature Range: -320°F to 662°F (-196°C to 350°C)

Item No.	Nominal Size		Expansion Range		Roll Length		Pack Qty.
	in	mm	in	mm	ft	m	
900365	0.118	3	0.039	0.157	100	30.48	1
900366	0.236	6	0.196	0.314	100	30.48	1
900367	0.314	8	0.236	0.393	100	30.48	1
900368	0.393	10	0.275	0.511	100	30.48	1
900369	0.472	12	0.314	0.629	100	30.48	1
900370	0.591	15	0.393	0.787	100	30.48	1
900371	0.787	20	0.551	1.023	100	30.48	1
900372	0.984	25	0.708	1.299	100	30.48	1
900373	1.181	30	0.787	1.535	100	30.48	1
900374	1.574	40	1.181	2.047	100	30.48	1
900375	1.968	50	1.574	2.559	100	30.48	1

Radiant Heat Reflective Sleeve

Specifications:
- Material: Outer Sleeve - Aluminum Foil
- Material: Inner Sleeve - Fiberglass

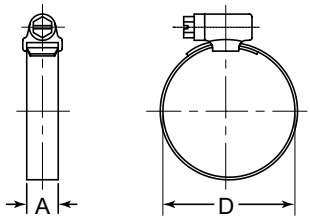
Features:
- Creates a thermal layer between wires, cables or hoses and the high temperature environments they are in
- Reflects more than 95% of the radiant energy that hits its surface

Item No.	ID		Max. Bundle Ø		Roll Length		Pack Qty.
	in	mm	in	mm	ft	m	
900404	0.393	10	0.433	11	100	30.5	1
900405	0.629	16	0.669	17	100	30.5	1
900406	0.787	20	0.826	21	100	30.5	1
900407	0.984	25	1.023	26	100	30.5	1
900408	1.181	30	1.220	31	100	30.5	1

MHC Series
Mini Worm Gear Hose Clamps

Specifications:
- Material: Band and Housing - Stainless Steel
- Screw: 1/4 Inch Hex-Head, Plated-Carbon Steel

Features:
- Can be used on small hose applications
- Low profile housing and thin band make them easier to install or remove in confined areas



Item No.	SAE Size	Ø Min	Ø Max	A	Bulk Pack Qty.
		in	in	in	
MHC04A	4	0.250	0.625	0.312	100
MHC05A	5	0.250	0.687	0.312	100
MHC06A	6	0.312	0.875	0.312	100
MHC08A	8	0.375	1.000	0.312	100
MHC10A	10	0.375	1.062	0.312	100
MHC12A	12	0.500	1.250	0.312	50
MHC16A	16	0.500	1.500	0.312	50
MHC20A	20	0.750	1.750	0.312	50
MHC04A	4	0.250	0.625	0.312	100
MHC05A	5	0.250	0.687	0.312	100
MHC06A	6	0.312	0.875	0.312	100
MHC08A	8	0.375	1.000	0.312	100
MHC10A	10	0.375	1.062	0.312	100
MHC12A	12	0.500	1.250	0.312	50
MHC16A	16	0.500	1.500	0.312	50
MHC20A	20	0.750	1.750	0.312A	50

STAINLESS STEEL
CABLE TIES

In Stock & Ready To Ship
See Page 218

Call or go online to request FREE SAMPLES!

HOSE TIES AND CLAMPS

Smooth ID Punching Ties

NEW

Specifications:
- Material: 304 Stainless Steel

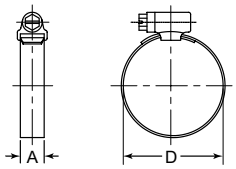
Features:
- Smooth ID with a low profile which is excellent when used to fasten a fabric protective sleeve over a hydraulic hose assembly
- Can be applied by hand or pneumatic tool
- Pre-engaged for ease of installation

Item No.	Straight Length		Width	
	in	mm	in	mm
900560	9	229	0.25	6.3
900562	11	285	0.25	6.3
900564	14	370	0.25	6.3
900566	16.5	419	0.25	6.3

WDHC Series
Worm Drive or Worm Gear Hose Clamp

Specifications:
- Material: See Table

Features:
- Can be used with the TSL or TQS Series sleeves
- Band detaches from the housing so you can install or remove them without disconnecting the hose or tube
- Screw is same material as the band

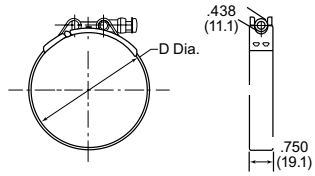


Item No.			Ø D		A	Bulk Pack Qty.
Carbon Steel	Stainless Steel	SAE #	Min in	Max in	in	
WDHC04A	**WDHC04B**	4	0.250	0.625	0.320	100
WDHC06A	**WDHC06B**	6	0.438	0.750	0.320	100
WDHC08A	**WDHC08B**	8	0.500	0.875	0.320	100
WDHC10A	**WDHC10B**	10	0.500	1.063	0.500	50
WDHC12A	**WDHC12B**	12	0.500	1.250	0.500	50
WDHC16A	**WDHC16B**	16	1.063	1.500	0.500	50
WDHC20A	**WDHC20B**	20	0.750	1.750	0.500	50
WDHC24A	**WDHC24B**	24	1.000	2.000	0.500	25
WDHC28A	**WDHC28B**	28	1.250	2.250	0.500	25
WDHC32A	**WDHC32B**	32	1.500	2.500	0.500	25
WDHC36A	**WDHC36B**	36	1.750	2.750	0.500	25
WDHC44A	**WDHC44B**	44	2.250	3.250	0.500	25
WDHC48A	**WDHC48B**	48	2.500	3.500	0.500	20
WDHC52A	**WDHC52B**	52	2.750	3.750	0.500	20
WDHC56A	**WDHC56B**	56	3.000	4.000	0.500	20
WDHC60A	**WDHC60B**	60	3.250	4.250	0.500	20
WDHC64A	**WDHC64B**	64	2.500	4.500	0.500	20
WDHC72A	**WDHC72B**	72	3.000	5.000	0.500	10
WDHC80A	**WDHC80B**	80	3.500	5.500	0.500	10
WDHC88A	**WDHC88B**	88	4.000	6.000	0.500	10
WDHC96A	**WDHC96B**	96	4.500	6.500	0.500	10

TBC Series
T-Bolt Hose Clamp

Specifications:
- Material: 301 Stainless Steel
- Bolt: 1/4 - 28 in.
- Nut: 7/16 in. hex

Features:
- Designed to provide a dependable seal on large diameter applications where high vibration occurs



Item No.	SAE #	Ø D Min in	Ø D Max in	Bulk Pack Qty.
TBC15A	—	1.375	1.562	25
TBC17A	—	1.625	1.875	25
TBC28A	28	1.750	1.937	25
TBC32A	32	1.875	2.187	25
TBC36A	36	2.125	2.312	25
TBC40A	40	2.250	2.437	25
TBC44A	44	2.375	2.562	25
TBC48A	48	2.375	2.687	10
TBC52A	52	2.500	2.812	10
TBC56A	56	2.625	2.937	10
TBC60A	60	2.750	3.062	10
TBC64A	64	2.875	3.187	10
TBC68A	68	3.000	3.312	10
TBC76A	76	3.250	3.562	10
TBC84A	84	3.500	3.812	10
TBC92A	92	3.750	4.062	10
TBC100A	100	4.000	4.312	5
TBC108A	108	4.250	4.562	5
TBC116A	116	4.500	4.812	5
TBC124A	124	4.750	5.062	5
TBC132A	132	5.000	5.312	5
TBC140A	140	5.250	5.562	5
TBC148A	148	5.500	5.812	5
TBC156A	156	5.750	6.062	5
TBC172A	172	6.250	6.562	5
TBC188A	188	6.750	7.062	5
TBC204A	204	7.250	7.562	2

HOSE CINCH STRAPS & CLAMPS

TCS and THCS Series
Standard and Hanging Cinch Straps

Specifications:
- Material: Standard - Nylon 22 Delrin Buckles
- Material: Heavy-Duty - Woven Nylon Webbing, Nickel-Plated Steel Buckles

Features:
- Add, remove or adjust hose buckles in minutes
- Cuts normal installation time by 50%
- The hook and loop design holds hoses securely while allowing natural hose expansion and contraction movement without damage
- The grommet on the THCS strap can be attached to any convenient bulkhead or mounting surface
- Excellent UV and weather resistance

TCS Heavy

THCS Heavy

Cinch Straps

Item No.		Bundle Ø	
Standard	Heavy	in	mm
TCS4A	TCS4HA	1.270	32.25
TCS8A	TCS8HA	2.540	64.51
TCS12A	TCS12HA	3.820	97.02
TCS16A	TCS16HA	5.100	129.54
TCS20A	TCS20HA	6.370	161.79

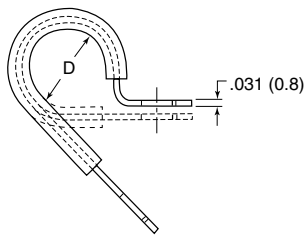
Hanging Cinch Straps

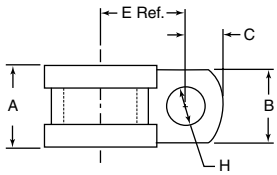
Item No.		Bundle Ø	
Standard	Heavy	in	mm
THCS1A	—	0.320	8.12
THCS4A	THCS4HA	1.270	32.25
THCS8A	THCS8HA	2.540	64.51
THCS12A	THCS12HA	3.820	97.02
THCS16A	THCS16HA	5.100	129.54
THCS20A	THCS20HA	6.370	161.79

SPN / SPNW Series
Steel Clamp with Rubber Cushion

Specifications:
- Material: Cold Rolled Steel, Zinc Electroplated, Elastomer Cushion
- Color: Steel with Black Cushion

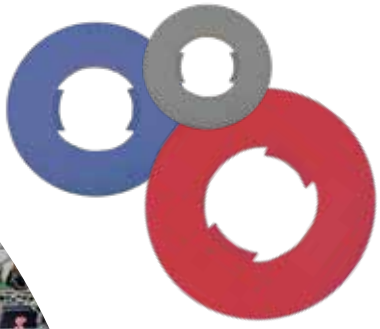
Features:
- Provides electrical insulation and vibration absorption
- Ideal for long-life applications





Item No.	D Holding Ø		B		A		Ø H		E Ref.		C		Pack Qty.	Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
SPN-3	0.188	4.8	0.500	12.7	0.650	16.5	0.266	6.7	0.500	12.7	0.260	6.6	1	500
SPN-4	0.250	6.4	0.500	12.7	0.650	16.5	0.266	6.7	0.530	13.5	0.260	6.6	1	500
SPNW-4	0.250	6.4	0.625	15.9	0.750	19.1	0.406	10.3	0.530	13.5	0.313	7.9	1	100
SPN-5	0.313	7.9	0.500	12.7	0.650	16.5	0.266	6.7	0.560	14.2	0.260	6.6	1	500
SPNW-5	0.313	7.9	0.625	15.9	0.750	19.1	0.406	10.3	0.560	14.2	0.313	7.9	1	100
SPN-6	0.375	9.5	0.500	12.7	0.650	16.5	0.266	6.7	0.590	15	0.260	6.6	1	500
SPNW-6	0.375	9.5	0.625	15.9	0.750	19.1	0.406	10.3	0.590	15	0.313	7.9	1	100
SPN-7	0.438	11.1	0.500	12.7	0.650	16.5	0.266	6.7	0.620	15.7	0.260	6.6	1	500
SPNW-7	0.438	11.1	0.625	15.9	0.750	19.1	0.406	10.3	0.620	15.7	0.313	7.9	1	100
SPN-8	0.500	12.7	0.500	12.7	0.650	16.5	0.266	6.7	0.650	16.5	0.260	6.6	1	500
SPNW-8	0.500	12.7	0.625	15.9	0.750	19.1	0.406	10.3	0.650	16.5	0.313	7.9	1	100
SPN-9	0.563	14.3	0.500	12.7	0.650	16.5	0.266	6.7	0.750	19.1	0.260	6.6	1	500
SPN-10	0.625	15.9	0.500	12.7	0.650	16.5	0.266	6.7	0.780	19.8	0.260	6.6	1	500
SPNW-10	0.625	15.9	0.625	15.9	0.750	19.1	0.406	10.3	0.780	19.8	0.313	7.9	1	100
SPN-11	0.688	17.5	0.500	12.7	0.650	16.5	0.266	6.7	0.810	20.6	0.260	6.6	1	500
SPNW-11	0.688	17.5	0.625	15.9	0.750	19.1	0.406	10.3	0.810	20.6	0.313	7.9	1	100
SPN-12	0.750	19.1	0.500	12.7	0.650	16.5	0.266	6.7	0.840	21.3	0.260	6.6	1	500
SPN-14	0.875	22.2	0.500	12.7	0.650	16.5	0.266	6.7	0.900	22.9	0.260	6.6	1	100
SPNW-14	0.875	22.2	0.625	15.9	0.750	19.1	0.406	10.3	0.900	22.9	0.313	7.9	1	100
SPN-16	1.000	25.4	0.500	12.7	0.650	16.5	0.266	6.7	0.960	24.4	0.260	6.6	1	100
SPNW-16	1.000	25.4	0.625	15.9	0.750	19.1	0.406	10.3	0.960	24.4	0.313	7.9	1	100
SPN-18	1.125	28.6	0.500	12.7	0.650	16.5	0.266	6.7	1.050	26.7	0.260	6.6	1	100
SPN-20	1.250	31.8	0.500	12.7	0.650	16.5	0.266	6.7	1.110	28.2	0.260	6.6	1	100
SPNW-20	1.250	31.8	0.625	15.9	0.750	19.1	0.406	10.3	1.110	28.2	0.313	7.9	1	100

FASTENERS



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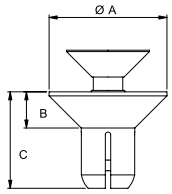
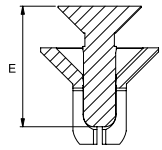
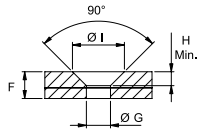
SNAP RIVETS

SRCS Series
Countersunk Snap Rivets





Mounting Hole Detail

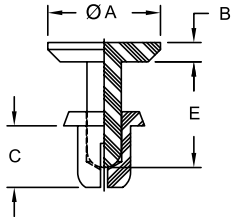


Specifications:
- Material: UL94 V-2 Nylon 6
- Color: See Table

Features:
- Countersunk design for flush surface
- Tamper resistant design
- Accommodates countersunk hole specification DIN ISO 7721

Item No.		Ø Hole		Total Holding Thickness F		Ø A		B		C		E		H Min.		Ø I		Bulk Pack Qty.
Black	White	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
SRCS-4060B	SRCS-4060W	0.16 - 0.17	4.1 - 4.2	0.14 - 0.18	3.5 - 4.5	0.35	8.8	0.11	2.7	0.24	6.0	0.28	7.1	0.10	2.6	0.37	9.4	1000
SRCS-4070B	SRCS-4070W	0.16 - 0.17	4.1 - 4.2	0.18 - 0.22	4.5 - 5.5	0.35	8.8	0.11	2.7	0.28	7.2	0.35	9.0	0.10	2.6	0.37	9.4	1000
SRCS-4080B	SRCS-4080W	0.16 - 0.17	4.1 - 4.2	0.22 - 0.26	5.5 - 6.5	0.35	8.8	0.11	2.7	0.32	8.0	0.35	9.0	0.10	2.6	0.37	9.4	1000
SRCS-4090B	SRCS-4090W	0.16 - 0.17	4.1 - 4.2	0.26 - 0.30	6.5 - 7.5	0.35	8.8	0.11	2.7	0.35	9.0	0.43	11.0	0.10	2.6	0.37	9.4	1000
SRCS-4100B	SRCS-4100W	0.16 - 0.17	4.1 - 4.2	0.30 - 0.34	7.5 - 8.5	0.35	8.8	0.11	2.7	0.39	10.0	0.43	11.0	0.10	2.6	0.37	9.4	1000
SRCS-5065B	SRCS-5065W	0.20 - 0.21	5.1 - 5.2	0.14 - 0.18	3.5 - 4.5	0.35	8.8	0.11	2.7	0.26	6.5	0.35	8.5	0.10	2.6	0.41	10.4	1000

SRH Series
Snap Rivets, H-Type



Specifications:
- Material: UL94 V-2 Nylon 6
- Color: Black

Features:
- Flat head design eases assembly and disassembly
- Installed easily by hand

Item No.	Ø Hole		Total Holding Thickness		Ø A		B		C		E		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
SRH-3035	0.122 - 0.126	3.1 - 3.2	0.039 - 0.079	1.0 - 2.0	0.252	6.4	0.039	1.0	0.14	3.5	0.26	6.5	1000
SRH-3045	0.122 - 0.126	3.1 - 3.2	0.079 - 0.118	2.0 - 3.0	0.252	6.4	0.039	1.0	0.18	4.5	0.26	6.5	1000
SRH-3055	0.122 - 0.126	3.1 - 3.2	0.118 - 0.157	3.0 - 4.0	0.252	6.4	0.039	1.0	0.22	5.6	0.26	6.5	1000
SRH-3065	0.122 - 0.126	3.1 - 3.2	0.157 -0.197	4.0 - 5.0	0.236	6.0	0.039	1.0	0.26	6.5	0.39	10.0	1000
SRH-3080	0.122 - 0.126	3.1 - 3.2	0.197 - 0.256	5.0 - 6.5	0.236	6.0	0.039	1.0	0.31	8.0	0.39	10.0	1000
SRH-3090	0.122 - 0.126	3.1 - 3.2	0.256 - 0.295	6.5 - 7.5	0.252	6.4	0.039	1.0	0.35	9.0	0.47	12.0	1000
SRH-3100	0.122 - 0.126	3.1 - 3.2	0.295 - 0.335	7.5 - 8.5	0.252	6.4	0.039	1.0	0.39	10.0	0.47	12.0	1000
SRH-3535	0.142 - 0.146	3.6 - 3.7	0.047 - 0.083	1.2 - 2.1	0.252	6.4	0.039	1.0	0.14	3.5	0.26	6.5	1000
SRH-3545	0.142 - 0.146	3.6 - 3.7	0.087 - 0.122	2.2 - 3.1	0.252	6.4	0.039	1.0	0.18	4.5	0.26	6.5	1000
SRH-3555	0.142 - 0.146	3.6 - 3.7	0.118 - 0.157	30 - 4.0	0.236	6.0	0.039	1.0	0.22	5.5	0.39	10.0	1000
SRH-3560	0.142 - 0.146	3.6 - 3.7	0.138 - 0.177	3.5 - 4.5	0.236	6.0	0.039	1.0	0.24	6.0	0.39	10.0	1000
SRH-3570	0.142 - 0.146	3.6 - 3.7	0.177 - 0.217	4.5 - 5.5	0.236	6.0	0.039	1.0	0.28	7.0	0.39	10.0	1000
SRH-3580	0.142 - 0.146	3.6 - 3.7	0.217 - 0.256	5.5 - 6.5	0.236	6.0	0.039	1.0	0.31	8.0	0.39	10.0	1000

SRP Series
High Temperature Snap Rivet

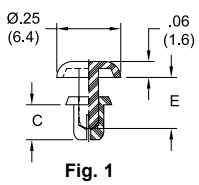


Fig. 1

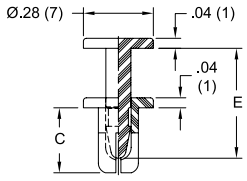


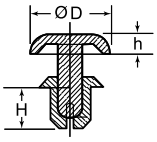
Fig. 2

Specifications:
- Material: UL94 V-1 Polysulfone
- Color: Black

Features:
- Withstands temperatures up to 311°F (155°C)

Item No.	Ø Hole		Total Holding Thickness		C		E		Fig. No.	Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm		
SRP-3045	0.122 - 0.126	3.1 - 3.2	0.059 - 0.098	1.5 - 2.5	0.18	4.5	0.24	6.1	1	1000
SRP-3055	0.122 - 0.126	3.1 - 3.2	0.098 - 0.138	2.5 - 3.5	0.22	5.5	0.24	6.1	1	1000
SRP-4065	0.157 - 0.165	4.0 - 4.2	0.138 - 0.177	3.5 - 4.5	0.26	6.5	0.43	11.0	2	1000

SR/SRVO/SRHR Series
Snap Rivet

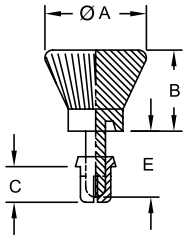


Specifications:
- Material: See Table
- Color: See Table

Features:
- Designed for fast and easy installation without any tools
- Simply place rivet into hole and press down on the head to fasten
- Round head provides a clean, finished look
- SRHR part numbers withstand temperatures up to 266°F (130°C)

Item No.				Ø Hole	Total Holding Thickness	Ø D	H	h	Bulk Pack Qty.
Nylon 6 UL94 V-2		Nylon 66/6 UL94 V-0	Nylon 4/6 UL 94V-2						
Black	White	Black	Tan	in	in	in	in	in	
SR-2024B	SR-2024W	SRVO-2024B	—	0.083 - 0.087	0.024 - 0.047	0.165	0.090	0.047	1000
SR-2032B	SR-2032W	SRVO-2032B	—	0.083 - 0.087	0.051 - 0.079	0.165	0.130	0.047	1000
SR-2040B	SR-2040W	SRVO-2040B	—	0.083 - 0.087	0.083 - 0.110	0.165	0.160	0.047	1000
SR-2048B	SR-2048W	SRVO-2048B	—	0.083 - 0.087	0.114 - 0.142	0.165	0.190	0.047	1000
SR-2056B	SR-2056W	SRVO-2056B	—	0.083 - 0.087	0.146 - 0.173	0.165	0.220	0.047	1000
SR-2064B	SR-2064W	SRVO-2064B	—	0.083 - 0.087	0.173 - 0.197	0.165	0.250	0.047	1000
SR-2632B	SR-2632W	SRVO-2632B	—	0.106 - 0.110	0.039 - 0.079	0.197	0.130	0.055	1000
SR-2642B	SR-2642W	SRVO-2642B	—	0.106 - 0.110	0.079 - 0.118	0.197	0.170	0.055	1000
SR-2648B	SR-2648W	SRVO-2648B	—	0.106 - 0.110	0.106 - 0.142	0.197	0.190	0.055	1000
SR-2655B	SR-2655W	SRVO-2655B	—	0.106 - 0.110	0.134 - 0.169	0.197	0.220	0.055	1000
SR-2664B	SR-2664W	SRVO-2664B	—	0.106 - 0.110	0.169 - 0.205	0.197	0.250	0.055	1000
SR-2672B	SR-2672W	SRVO-2672B	—	0.106 - 0.110	0.201- 0.236	0.197	0.280	0.055	1000
SR-3035B	SR-3035W	SRVO-3035B	SRHR-3035	0.122 - 0.126	0.039 - 0.079	0.252	0.140	0.063	1000
SR-3045B	SR-3045W	SRVO-3045B	SRHR-3045	0.122 - 0.126	0.079 - 0.118	0.252	0.180	0.063	1000
SR-3055B	SR-3055W	SRVO-3055B	SRHR-3055	0.122 - 0.126	0.118 - 0.157	0.252	0.220	0.063	1000
SR-3065B	SR-3065W	SRVO-3065B	SRHR-3065	0.122 - 0.126	0.157 - 0.197	0.252	0.260	0.063	1000
SR-3075B	SR-3075W	SRVO-3075B	—	0.122 - 0.126	0.197 - 0.236	0.252	0.300	0.063	1000
SR-3080B	SR-3080W	SRVO-3080B	SRHR-3080	0.122 - 0.126	0.217 - 0.256	0.252	0.320	0.063	1000
SR-3090B	SR-3090W	SRVO-3090B	—	0.122 - 0.126	0.256 - 0.295	0.252	0.350	0.063	1000
SR-3100B	SR-3100W	SRVO-3100B	—	0.122 - 0.126	0.295 - 0.335	0.252	0.390	0.063	1000
SR-3230B	—	—	—	0.122 - 0.126	0.807 - 0.847	0.252	0.906	0.063	1000
SR-3535B	SR-3535W	SRVO-3535B	SRHR-3535	0.142 - 0.146	0.047 - 0.083	0.252	0.140	0.063	1000
SR-3545B	SR-3545W	SRVO-3545B	SRHR-3545	0.142 - 0.146	0.083 - 0.118	0.252	0.180	0.063	1000
SR-3550B	SR-3550W	SRVO-3550B	—	0.142 - 0.146	0.106 - 0.142	0.252	0.200	0.063	1000
SR-3555B	SR-3555W	SRVO-3555B	SRHR-3555	0.142 - 0.146	0.118 - 0.157	0.252	0.220	0.063	1000
SR-3560B	SR-3560W	SRVO-3560B	—	0.142 - 0.146	0.146 - 0.181	0.252	0.240	0.063	1000
SR-3570B	SR-3570W	SRVO-3570B	—	0.142 - 0.146	0.177 - 0.217	0.252	0.280	0.063	1000
SR-3580B	SR-3580W	SRVO-3580B	—	0.142 - 0.146	0.217 - 0.256	0.252	0.320	0.063	1000
SR-4050B	SR-4050W	SRVO-4050B	SRHR-4050	0.161 - 0.165	0.098 - 0.138	0.315	0.200	0.071	1000
SR-4060B	SR-4060W	SRVO-4060B	SRHR-4060	0.161 - 0.165	0.138 - 0.177	0.315	0.240	0.071	1000
SR-4070B	SR-4070W	SRVO-4070B	SRHR-4070	0.161 - 0.165	0.177 - 0.217	0.315	0.280	0.071	1000
SR-4080B	SR-4080W	SRVO-4080B	SRHR-4080	0.161 - 0.165	0.217 - 0.256	0.315	0.320	0.071	1000
SR-4090B	SR-4090W	SRVO-4090B	—	0.161 - 0.165	0.256 - 0.295	0.315	0.350	0.071	1000
SR-4100B	SR-4100W	SRVO-4100B	SRHR-4100	0.161 - 0.165	0.295 - 0.335	0.315	0.390	0.071	1000
SR-4120B	SR-4120W	SRVO-4120B	—	0.161 - 0.165	0.354 - 0.413	0.315	0.470	0.071	1000
SR-5045B	SR-5045W	SRVO-5045B	—	0.201 - 0.205	0.059 - 0.098	0.354	0.180	0.087	1000
SR-5055B	SR-5055W	SRVO-5055B	—	0.201 - 0.205	0.098 - 0.138	0.354	0.220	0.087	1000
SR-5065B	SR-5065W	SRVO-5065B	—	0.201 - 0.205	0.138 - 0.177	0.354	0.260	0.087	1000
SR-5075B	SR-5075W	SRVO-5075B	—	0.201 - 0.205	0.177 - 0.217	0.354	0.300	0.087	1000
SR-5085B	SR-5085W	SRVO-5085B	—	0.201 - 0.205	0.217 - 0.256	0.354	0.340	0.087	1000
SR-5095B	SR-5095W	SRVO-5095B	—	0.201 - 0.205	0.256 - 0.295	0.354	0.370	0.087	1000
SR-5105B	SR-5105W	SRVO-5105B	—	0.201 - 0.205	0.295 - 0.335	0.354	0.410	0.087	1000
SR-6060B	SR-6060W	SRVO-6060B	—	0.240 - 0.244	0.098 - 0.157	0.472	0.240	0.098	1000
SR-6080B	SR-6080W	SRVO-6080B	—	0.240 - 0.244	0.138 - 0.217	0.472	0.320	0.118	1000

SRT Series
Snap Rivet, T-Type



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Push/pull knob lets rivet snap in and out up to 25 times
- For applications requiring quick assembly and disassembly

Item No.	Ø Hole		Total Holding Thickness		Ø A		B		C		E		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
SRT-3035B	0.122 - 0.126	3.1 - 3.2	0.039 - 0.079	1.0 - 2.0	0.394	10.0	0.315	8.0	0.14	3.5	0.26	6.5	1000
SRT-3045B	0.122 - 0.126	3.1 - 3.2	0.079 - 0.118	2.0 - 3.0	0.394	10.0	0.315	8.0	0.18	4.5	0.26	6.5	1000
SRT-3055B	0.122 - 0.126	3.1 - 3.2	0.118 - 0.157	3.0 - 4.0	0.394	10.0	0.315	8.0	0.22	5.6	0.26	6.5	1000
SRT-3065B	0.122 - 0.126	3.1 - 3.2	0.157 -0.197	4.0 - 5.0	0.394	10.0	0.315	8.0	0.26	6.5	0.35	9.0	1000
SRT-3075B	0.122 - 0.126	3.1 - 3.2	0.197 - 0.236	5.0 - 6.0	0.394	10.0	0.315	8.0	0.30	7.5	0.35	9.0	1000
SRT-3080B	0.122 - 0.126	3.1 - 3.2	0.217 - 0.256	5.5 - 6.5	0.394	10.0	0.315	8.0	0.32	8.0	0.35	9.0	1000
SRT-3535B	0.142 - 0.146	3.6 - 3.7	0.039 - 0.079	1.0 - 2.0	0.394	10.0	0.315	8.0	0.14	3.5	0.26	6.6	1000
SRT-3545B	0.142 - 0.146	3.6 - 3.7	0.079 - 0.118	2.0 - 3.0	0.394	10.0	0.315	8.0	0.18	4.5	0.26	6.6	1000
SRT-3555B	0.142 - 0.146	3.6 - 3.7	0.118 - 0.146	3.0 - 3.7	0.394	10.0	0.315	8.0	0.22	5.5	0.26	6.6	1000
SRT-3570B	0.142 - 0.146	3.6 - 3.7	0.150 - 0.205	3.8 - 5.2	0.394	10.0	0.315	8.0	0.28	7.0	0.35	9.0	1000
SRT-3580B	0.142 - 0.146	3.6 - 3.7	0.209 - 0.256	5.3 - 6.5	0.394	10.0	0.315	8.0	0.32	8.0	0.35	9.0	1000
SRT-4050B	0.161 - 0.165	4.1 - 4.2	0.098 - 0.138	2.5 - 3.5	0.472	12.0	0.315	8.0	0.20	5.0	0.30	7.6	1000
SRT-4060B	0.161 - 0.165	4.1 - 4.2	0.138 - 0.177	3.5 - 4.5	0.472	12.0	0.315	8.0	0.24	6.0	0.30	7.6	1000
SRT-4070B	0.161 - 0.165	4.1 - 4.2	0.177 - 0.216	4.5 - 5.5	0.472	12.0	0.315	8.0	0.28	7.0	0.44	11.2	1000
SRT-4080B	0.161 - 0.165	4.1 - 4.2	0.216 - 0.256	5.5 - 6.5	0.472	12.0	0.315	8.0	0.32	8.0	0.44	11.2	1000
SRT-4090B	0.161 - 0.165	4.1 - 4.2	0.256 - 0.295	6.5 - 7.5	0.472	12.0	0.315	8.0	0.35	9.0	0.44	11.2	1000
SRT-4100B	0.161 - 0.165	4.1 - 4.2	0.295 - 0.335	7.5 - 8.5	0.472	12.0	0.315	8.0	0.39	10.0	0.44	11.2	1000

SNAP RIVETS / FIR TREE FASTENER

1301 Series
Snap In Rivets

New

Fig. 1

Fig. 2

Fig 3.

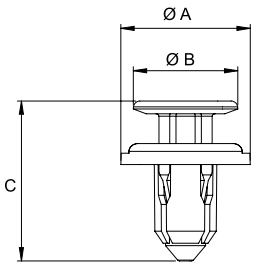
Fig. 4

Fig 5

Fig 6

Fig 7

Fig 8



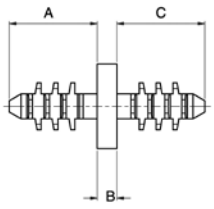
Specifications:
- Material: See Table
- Color: Black

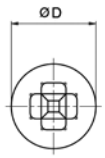
Features:
- Quickly installed by hand
- Pin is predriven into the grommet
- Grommet expands as pin is inserted providing a tight fit
- Ideally suioted for any application requiring a front-mount rivet
- 14 sizes to accomodate a variety of hole diameters and panel thicknesses
- Reliable way to hold materials together

Item No.	Fig	Ø Hole		Min Panel Thickness		Max Panel Thickness		Ø A		Ø B		C		Material	Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
1301297	1	0.24	6.15	0.079	2.0	0.177	4.5	0.55	14.0	0.39	9.9	0.724	18.4	Acetal	1000
1301298	2	0.28	7.0	0.098	2.5	0.197	5.0	0.78	19.9	0.58	14.8	0.831	21.1	Grommet: Acetal, Pin: Polypropylene	1000
1301299	3	0.31	8.0	0.177	4.5	0.189	4.8	0.63	16.1	0.51	13.0	0.783	19.9	Acetal	1000
1301300	3	0.39	10.0	0.217	5.5	0.276	7.0	0.79	20.0	0.55	14.0	1.03	26.1	Grommet: Acetal, Pin: Polypropylene	1000
1301301	4	0.35	9.0	0.15	3.8	0.189	4.8	0.71	18.0	0.55	13.9	1.547	39.3	Grommet: Acetal, Pin: PBT	1000
1301302	5	0.28	7.2	0.118	3.0	0.157	4.0	0.71	18.1	0.48	12.2	0.689	17.5	Acetal	1000
1301303	2	0.31	8.0	0.098	2.5	0.197	5.0	0.79	20.0	0.58	14.8	0.78	19.8	Grommet: Acetal, Pin: Polypropylene	1000
1301304	6	0.27	6.75	0.039	1.0	0.157	4.0	0.79	20.0	0.51	13.0	0.736	18.7	Acetal	1000
1301305	7	0.28	7.0	0.059	1.5	0.098	2.5	0.79	20.0	0.55	14.0	0.74	18.8	Grommet: Acetal, Pin: PBT	1000
1301306	3	0.39	10.0	0.276	7.0	0.315	8.0	0.79	20.0	0.53	13.6	1.201	30.5	Acetal	1000
1301307	5	0.24	6.0	0.161	4.1	0.197	5.0	0.55	14.0	0.29	7.3	0.65	16.5	Acetal	1000
1301308	7	0.31	8.0	0.118	3.0	0.197	5.0	0.79	20.0	0.47	11.8	0.843	21.4	Acetal	1000
1301309	6	0.31	7.8	0.118	3.0	0.236	6.0	0.79	20.0	0.51	13.0	0.874	22.2	Acetal	1000
1301310	8	0.28	7.0	0.118	3.0	0.138	3.5	0.58	14.8	0.22	5.6	0.819	20.8	Acetal	1000

4952 Series
Double Ended Fir Tree Rivet

New



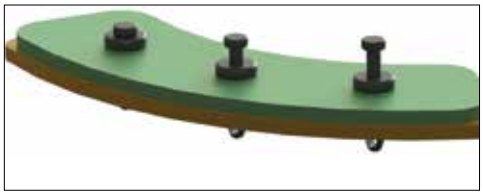


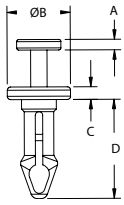
Specifications:
- Material: Nylon 6/6
- Color: Black

Features:
- Allows two panels to be connected from the center so that no fastener head is visible

Item No.	Ø Hole		Panel Thickness A Side		Panel Thickness C Side		A		C		B		Ø D		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
495218	0.157	4.0	0.102 - 0.248	2.6 - 6.3	0.102 - 0.248	2.6 - 6.3	0.307	7.8	0.307	7.8	0.071	1.8	0.295	7.5	1000
495219	0.295	7.5	0.118 - 0.315	3.0 - 8.0	0.118 - 0.315	3.0 - 8.0	0.689	17.5	0.689	17.5	0.039	1.0	0.748	19.0	1000
495220	0.315	8.0	0.126 - 0.315	3.2 - 9.5	0.142 - 0.748	3.6 - 19.0	0.457	11.6	0.858	21.8	0.043	1.1	0.500	12.7	1000

TRM Series
Mini Tough Snap Rivet



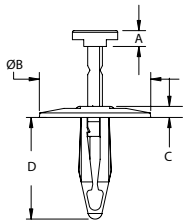


Specifications:
- Material: UL94 V-0 Heat Stabilized Nylon 6/6
- Color: Black

Features:
- One-piece design easily installed by hand
- Removable by pulling pin out of grommet

Item No.	Ø Hole		Panel Thickness		A		Ø B		C		D		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
TRM-1	0.097 - 0.103	2.5 - 2.6	0.160 - 0.180	4.1 - 4.6	0.040	1.0	0.190	4.8	0.060	1.5	0.345	8.8	1000
TRM-2	0.106 - 0.112	2.7 - 2.8	0.080 - 0.105	2.0 - 2.7	0.050	1.3	0.218	5.5	0.060	1.5	0.300	7.6	1000
TRM-3	0.122 - 0.128	3.1 - 3.3	0.105 - 0.130	2.7 - 3.3	0.050	1.3	0.218	5.5	0.060	1.5	0.320	8.1	1000
TRM-4	0.122 - 0.128	3.1 - 3.3	0.130 - 0.155	3.3 - 3.9	0.050	1.3	0.218	5.5	0.060	1.5	0.345	7.6	1000
TRM-5	0.122 - 0.128	3.1 - 3.3	0.155 - 0.180	3.9 - 4.6	0.050	1.3	0.218	5.5	0.060	1.5	0.370	9.4	1000
TRM-6	0.122 - 0.128	3.1 - 3.3	0.240 - 0.265	6.1 - 6.7	0.050	1.3	0.218	5.5	0.060	1.5	0.455	11.6	1000
TRM-7	0.144 - 0.154	3.7 - 3.9	0.265 - 0.290	6.7 - 7.4	0.050	1.3	0.300	7.6	0.060	1.5	0.470	11.9	1000

TR Series
Tough Snap Rivet



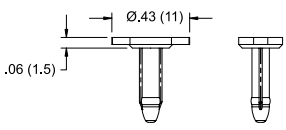
EXPANDED LINE

Specifications:
- Material 1: UL94 HB Impact Modified Nylon 6/6
- Material 2: Nylon 6/6
- Color: Black

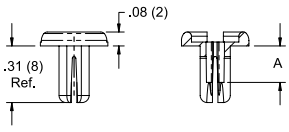
	Item No.	Ø Hole		Total Holding Thickness		Ø B		C		D		Material	Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm		
	TR-1	0.193 - 0.205	4.9 - 5.2	0.059 - 0.181	1.5 - 4.6	0.283	7.2	0.045	1.1	0.445	11.3	1	1000
•	495201	0.197	5.0	0.059 - 0.181	1.5 - 4.6	0.283	7.2	0.060	1.0	0.449	11.4	2	1000
	TR-2	0.248 - 0.276	6.3 - 7.0	0.098 - 0.350	2.5 - 8.9	0.985	25.0	0.098	2.5	0.898	22.8	1	1000
•	495202	0.248	6.3	0.157 - 0.299	4.0 - 7.6	0.709	18.0	0.098	2.5	0.681	17.3	2	1000
•	495203	0.248	6.3	0.098 - 0.350	2.5 - 8.9	1.000	25.4	0.098	2.5	0.886	22.5	2	1000
•	495204	0.248	6.3	0.098 - 0.350	2.5 - 8.9	0.591	15.0	0.106	2.7	0.728	18.5	2	1000
•	495205	0.248	6.3	0.059 - 0.299	1.5 - 7.6	0.685	17.4	0.079	2.0	0.803	20.4	2	1000
•	495206	0.256	6.5	0.098 - 0.350	2.5 - 8.9	0.591	15.0	0.079	2.0	0.882	22.4	2	1000
	TR-3	0.250 - 0.276	6.4 - 7.0	0.098 - 0.315	2.5 - 8.0	0.585	14.9	0.079	2.0	0.897	22.8	1	1000
•	495207	0.276	7.0	0.472 - 0.591	12.0 - 15.0	1.000	25.4	0.098	2.5	1.063	27.0	2	1000
•	495208	0.276	7.0	0.354 - 0.512	9.0 - 13.0	0.709	18.0	0.098	2.5	0.906	23.0	2	1000
•	495209	0.315	8.0	0.118 - 0.315	3.0 - 8.0	0.787	20.0	0.106	2.7	0.827	21.0	2	1000
•	495210	0.315	8.0	0.118 - 0.315	3.0 - 8.0	0.591	15.0	0.102	2.6	0.866	22.0	2	1000
•	495211	0.315	8.0	0.157 - 0.315	4.0 - 8.0	0.709	18.0	0.114	2.9	0.906	23.0	2	1000
•	495212	0.315	8.0	0.472 - 0.630	12.0 - 16.0	0.590	15.0	0.118	3.0	1.142	29.0	2	1000
	TR-4	0.315 - 0.325	8.0 - 8.3	0.118 - 0.315	3.0 - 8.5	0.585	14.9	0.106	2.7	0.830	21.1	1	1000
•	495213	0.354	9.0	0.118 - 0.276	3.0 - 7.0	0.630	16.0	0.102	2.6	0.787	20.0	2	1000
•	495214	0.374	9.5	0.035 - 0.189	0.9 - 4.8	0.984	25.0	0.094	2.4	0.992	25.2	2	1000
•	495215	0.374	9.5	0.138 - 0.2766	3.5 - 7.0	0.705	17.9	0.098	2.5	0.906	23.0	2	1000
•	495216	0.394	10.0	0.236 - 0.394	6.0 - 10.0	0.787	20.0	0.146	3.7	1.051	26.7	2	1000

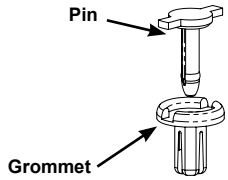
RRR Series
Removable Rivet

Pin



Grommet





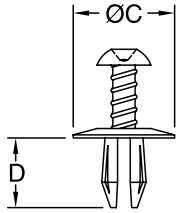
Specifications:
- Material: UL94 V-0 Nylon 66/6
- Color: Black

Features:
- Pin and grommet are supplied unassembled
- Pin is removable by pulling on the side tabs
- Can be used in a round or square hole

Item No.	Hole Size		Total Holding Thickness		A Ref.		Pack Qty.
	in	mm	in	mm	in	mm	
RRR-1	0.188-0.208 Ø or 0.177 Min. Square	4.76 - 5.28 Ø or 4.5 Min. Square	0.059 - 0.138	1.5 - 3.5	0.14	3.6	1000
RRR-2	0.188-0.208 Ø or 0.177 Min. Square	4.76 - 5.28 Ø or 4.5 Min. Square	0.138 - 0.217	3.5 - 5.5	0.17	4.4	1000

RIVETS

TPSR/USR/113 Series
Unscrewing Rivet



EXPANDED LINE

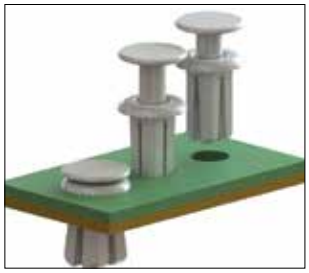
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

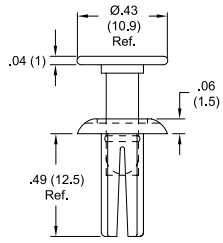
Features:
- Easily installed by hand
- As pin is screwed into body, the grommet expands locking it in place
- Removable by using a phillips head screwdriver
- Can be reused

*** Screw Material: Acetal UL94 HB; Grommet Material: Nylon 6**
**** Nylon 6**

Item No.		Ø Hole		Total Holding Thickness		Ø C		D		Bulk Pack Qty.
Black	Natural	in	mm	in	mm	in	mm	in	mm	
USR-1131	—	0.197	5.0	0.059 - 0.236	1.5 - 6.0	0.472	12.0	0.433	11.0	1000
• 113 000 169 902	—	0.197	5.0	0.157 - 0.276	4.0 - 7.0	0.472	12.0	0.433	11.0	250
• 113 105 059 902	• 113 105 000 002	0.197	5.0	0.079 - 0.276	2.0 - 7.0	0.492	12.5	0.378	9.6	250
USR-1132	—	0.236	6.0	0.059 - 0.236	1.5 - 6.0	0.630	16.0	0.433	11.0	1000
• 113 106 059 902	• 113 106 000 002	0.236	6.0	0.079 - 0.315	2.0 - 8.0	0.591	15.0	0.421	10.7	250
• 113 000 269 902	—	0.236	6.0	0.157 - 0.276	4.0 - 7.0	0.630	16.0	0.433	11.0	250
—	• 401007	0.250	6.4	0.156	4.0	0.594	15.1	0.422	10.7	1000
—	• 401008	0.250	6.4	0.140	3.6	0.703	17.9	0.438	11.1	1000
USR-64125**	—	0.250	6.4	0.126 - 0.172	3.2 - 4.4	0.594	15.1	0.500	12.7	500
• 113 107 059 902	• 113 107 000 002	0.276	7.0	0.118 - 0.354	3.0 - 9.0	0.689	17.5	0.476	12.1	250
—	• 401009	0.281	7.0	0.093	2.36	0.689	17.5	0.476	12.1	1000
USR-1133	—	0.315	8.0	0.118 - 0.394	3.0 - 1.0	0.787	20.0	0.551	14.0	1000
USR-1*	—	0.315	8.0	0.276 - 0.315	7.0 - 8.0	0.787	20.0	0.866	22.0	1000
• 113 108 059 902	• 113 108 000 002	0.315	8.0	0.118 - 0.394	3.0 - 10.0	0.787	20.0	0.531	13.5	250
• 113 000 369 902	—	0.315	8.0	0.118 - 0.394	3.0 - 10.0	0.787	20.0	0.551	14.0	250

PPR-10 Series
Push Rivet



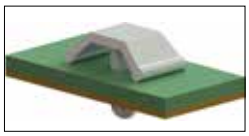


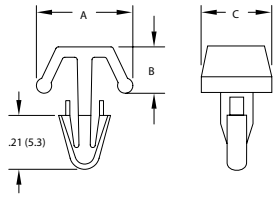
Specifications:
- Material: UL94 V-2 Nylon 6
- Color: Natural

Features:
- Used in either a round or square hole
- Square hole mounting is for anti-rotation applications

Item No.	Total Holding Thickness		Mounting Hole Options (Round Hole)		Mounting Hole Options (Square Hole)		Bulk Pack Qty.
	in	mm	in	mm	in	mm	
PPR-10	0.140 - 0.200	3.56 - 5.08	0.25	6.4	0.22	5.6	100

MB Series
Mounting Button





Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Item No.	Hole Diameter		Total Holding Thickness		A Ref.		B Ref.		C		Bulk Pack Qty.
	In	mm	in	mm	in	mm	in	mm	in	mm	
MB-1-156	0.156	4.0	0.031 - 0.093	0.8 - 2.4	0.391	9.9	0.188	4.8	0.310	7.9	1000
MB-3-156	0.156	4.0	0.093 - 0.156	2.4 - 4.0	0.391	9.9	0.188	4.8	0.310	7.9	1000
MB-5-156	0.156	4.0	0.156 - 0.219	4.0 - 5.6	0.391	9.9	0.188	4.8	0.310	7.9	1000
MB-7-156	0.156	4.0	0.219 - 0.281	5.6 - 7.1	0.391	9.9	0.188	4.8	0.310	7.9	1000
MB-9-156	0.156	4.0	0.281 - 0.343	7.1 - 8.7	0.391	9.9	0.188	4.8	0.310	7.9	1000
MB-11-156	0.156	4.0	0.343 - 0.406	8.7 - 10.3	0.391	9.9	0.188	4.8	0.310	7.9	1000
MB-1-187	0.187	4.8	0.031 - 0.093	0.8 - 2.4	0.484	12.3	0.188	4.8	0.310	7.9	1000
MB-3-187	0.187	4.8	0.093 - 0.156	2.4 - 4.0	0.484	12.3	0.188	4.8	0.310	7.9	1000
MB-5-187	0.187	4.8	0.156 - 0.219	4.0 - 5.6	0.484	12.3	0.188	4.8	0.310	7.9	1000
MB-7-187	0.187	4.8	0.219 - 0.281	5.6 - 7.1	0.484	12.3	0.188	4.8	0.310	7.9	1000
MB-9-187	0.187	4.8	0.281 - 0.343	7.1 - 8.7	0.484	12.3	0.188	4.8	0.310	7.9	1000
MB-11-187	0.187	4.8	0.343 - 0.406	8.7 - 10.3	0.484	12.3	0.188	4.8	0.310	7.9	1000

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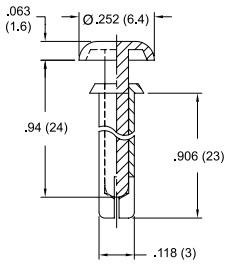
SR-3230 Series
Fan Mount Snap Rivet

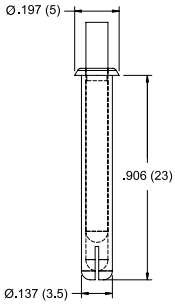


Specifications:
- Material: UL94 V-2 Nylon 6
- Color: Black

Features:
- Prongs expand to hold securely as pin is driven in
- Single-operation front mounting saves time and money

Item No.	Ø Hole		Total Holding Thickness		Bulk Pack Qty.
	in	mm	in	mm	
SR-3230B	0.122 - 0.126	3.1 - 3.2	0.807 - 0.847	20.5 - 21.5	1000

FR-1
Fan Mount Rivet



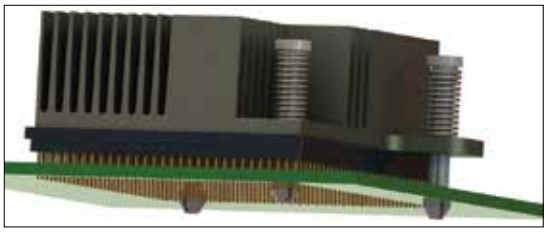
Installation Tool

Specifications:
- Material: UL94 V-2 Nylon 6
- Color: Black

Features:
- Permanently mounts fan to chassis, or finger guards to fan
- Provides tamper-resistant application
- Prongs expand to hold securely as pin is driven in
- Single-operation front mounting saves time and money

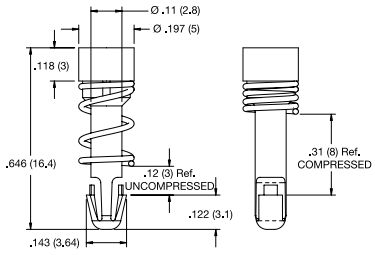
Item No.	Ø Hole		Total Holding Thickness		Installation Tool	Bulk Pack Qty.
	in	mm	in	mm		
FR-1	0.137 - 0.138	3.49 - 3.51	0.807 - 0.846	20.5 - 21.5	61PRT0125	1000

HSR Series
Heat Sink Spring Mount Rivet

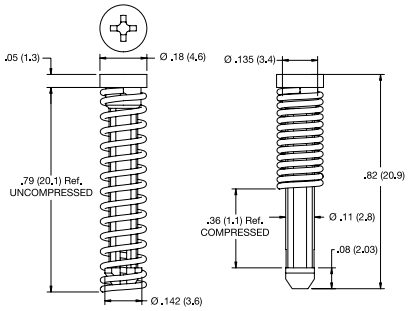


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Fastens a heat sink to a processor chip on a PCB
- The spring provides continuous pressure to the heat sink until thermal adhesive cures
- HSR-2 can be installed by using a phillips head screwdriver



HSR-1



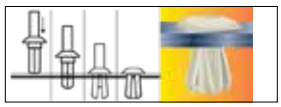
HSR-2

Item No.	Heat Sink Ø Hole		PCB Ø Hole		Spring Material	Bulk Pack Qty.
	in	mm	in	mm		
HSR-1	0.125 - 0.157	3.18 - 4.0	0.118	3.0	Spring Steel, Chrome Plating	1000
HSR-2	0.120 - 0.140	3.05 - 3.50	0.122	13.1	Stainless Steel	1000

RIVETS

RP/PPR Series
Push Rivet

EXPANDED LINE



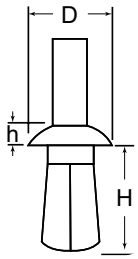


Fig. 1

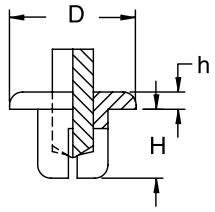


Fig. 2

Installation Tool

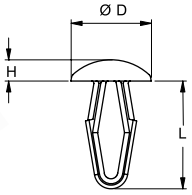
Installation Tool	Item No.
61PRT0125	PPR-5
	PPR-1
	PPR-93-7
	PPR-93-14
	PPR-2
61PRT0150	PPR-9
	PPR-4

Specifications:
- Material: See Table
- Color: See Table

Features:
- Install by placing rivet into hole and pushing plunger into the rivet to expand legs to lock in place

Item No.			Ø Hole		Panel Thickness		Ø D		h		H				Bulk Pack Qty.
Black	White	Natural	in	mm	in	mm	in	mm	in	mm	in	mm	Fig.	Material	
• 093011059902	—	• 093011000002	0.118	3.0	0.039 - 0.157	1.0 - 4.0	0.197	5.0	0.051	1.3	0.224	5.7	1	Nylon 6/6	250
PPR-3055B	—	—	0.118	3.0	0.118 - 0.157	3.0 - 4.0	0.228	5.8	0.079	2.0	0.220	5.6	2	Nylon 6	1000
RP100B	RP100W	—	0.118	3.0	0.079 - 0.118	2.0 - 3.0	0.118	3.0	0.079	2.0	0.177	4.5	2	Nylon 6	1000
RP105B	RP105W	—	0.118	3.0	0.118 - 0.157	3.0 - 4.0	0.230	5.8	0.079	2.0	0.220	5.6	2	Nylon 6	1000
• 172315511302	• 172315569902	—	0.122	3.1	0.118 - 0.157	3.0 - 4.0	0.228	5.8	0.063	1.6	0.217	5.5	2	Nylon 6/6,POM	250
• 093012059902	—	• 093012000002	0.138	3.5	0.039 - 0.197	1.0 - 5.0	0.236	6.0	0.051	1.3	0.268	6.8	1	Nylon 6/6	250
• 093000269902	—	• 093000200002	0.142	3.6	0.079 - 0.217	2.0 - 5.5	0.303	7.7	0.079	2.0	0.276	7.0	1	Nylon 6/6	250
• 093000469902	—	—	0.157	4.0	0.157-0.256	4.0 - 6.5	0.256	6.5	0.256	6.5	0.315	8.0	1	Nylon 6/6	250
• 093013059902	—	• 093013000002	0.157	4.0	0.059 - 0.236	1.5 - 6.0	0.256	6.5	0.059	1.5	0.311	7.9	1	Nylon 6/6	250
PPR-4050B	RP110W	—	0.157	4.0	0.098 - 0.138	2.5 - 3.5	0.315	8.0	0.087	2.2	0.197	5.0	2	Nylon 6	1000
RP115B	RP115W	—	0.157	4.0	0.138 - 0.177	3.5 - 4.5	0.157	4.0	0.091	2.3	0.236	6.0	2	Nylon 6	1000
• 172485069902	• 172485011302	-	0.189	4.8	0.047 - 0.118	1.2 - 3.0	0.386	9.8	0.142	3.6	0.197	5.0	2	Nylon 6/6,POM	250
• 093001069902	—	• 093001000002	0.189	4.8	0.063 - 0.185	1.6 - 4.7	0.343	8.7	0.098	2.5	0.291	7.4	1	Nylon 6/6	250
PPR-4850B	—	-	0.189	4.8	0.047 - 0.157	1.2 - 3.0	0.390	9.9	0.130	3.3	0.201	5.1	2	Nylon 6	1000
PPR-2B	—	PPR-2	0.189	4.8	0.157 - 0.280	4.0 - 7.1	0.429	10.9	0.059	1.5	0.382	9.7	1	Nylon 6/6	1000
PPR-5B	PPR-5	-	0.189	4.8	0.039 - 0.374	1.0 - 9.5	0.280	7.1	0.063	1.6	0.421	10.7	1	Nylon 6/6	1000
• 093014000002	—	• 093014059902	0.197	5.0	0.059 - 0.276	1.5 - 7.0	0.335	8.5	0.071	1.8	0.362	9.2	1	Nylon 6/6	250
PPR-93-14B	—	-	0.197	5.0	0.118 - 0.276	3.0 - 7.0	0.437	11.1	0.079	2.0	0.433	11.0	1	Nylon 6/6	1000
PPR-93-7B	—	PPR-93-7	0.197	5.0	0.059 - 0.197	1.5 - 5.0	0.280	7.1	0.079	2.0	0.291	7.4	1	Nylon 6/6	1000
PPR-5060B	RP135W	—	0.197	5.0	0.118 - 0.157	3.0 - 4.0	0.370	9.4	0.110	2.8	0.236	6.0	2	Nylon 6	1000
RP130B	RP130W	—	0.197	5.0	0.157 - 0.197	4.0 - 5.0	0.197	5.0	0.110	2.8	0.197	5.0	2	Nylon 6	1000
PPR-5080B	-	—	0.197	5.0	0.197 - 0.236	5.0 - 6.0	0.370	9.4	0.110	2.8	0.315	8.0	2	Nylon 6	1000
• 172516069902	• 172516011302	—	0.201	5.1	0.118 - 0.157	3.0 - 4.0	0.374	9.5	0.110	2.8	0.236	6.0	2	Nylon 6/6,POM	250
• 172517011302	• 172517011302	—	0.201	5.1	0.157 - 0.197	4.0 - 5.0	0.374	9.5	0.098	2.5	0.276	7.0	2	Nylon 6/6,POM	250
RP140B	RP140W	—	0.201	5.1	0.157 - 0.197	4.0 - 5.0	0.197	5.0	0.110	2.8	0.276	7.0	2	Nylon 6	1000
RP145B	RP145W	—	0.201	5.1	0.197 - 0.236	5.0 - 6.0	0.197	5.0	0.110	2.8	0.315	8.0	2	Nylon 6	1000
• 172518069902	17218011302	—	0.201	5.1	0.197 - 0.236	5.0 - 6.0	0.374	9.5	0.110	2.8	0.315	8.0	2	Nylon 6/6;POM	250
RP150B	RP150W	—	0.201	5.1	0.236 - 0.276	6.0 - 7.0	0.197	5.0	0.110	2.8	0.354	9.0	2	Nylon 6	1000
PPR-5070B	-	—	0.201	5.1	0.157 - 0.197	4.0 - 5.0	0.370	9.4	0.110	2.8	0.276	7.0	2	Nylon 6	1000
RP155B	RP155W	—	0.201	5.1	0.276 - 0.315	7.0 - 8.0	0.197	5.0	0.110	2.8	0.394	10.0	2	Nylon 6	1000
PPR-1B	—	PPR-1	0.217	5.5	0.098 - 0.157	2.5 - 4.0	0.370	9.4	0.079	2.0	0.449	11.4	1	Nylon 6/6	1000
• 093015059902	—	• 093015000002	0.236	6.0	0.079 - 0.315	2.0 - 8.0	0.394	10.0	0.087	2.2	0.413	10.5	1	Nylon 6/6	250
• 093002469902	—	• 093002400002	0.236	6.0	0.118 - 0.276	3.0 - 7.0	0.433	11.0	0.079	2.0	0.394	10.0	1	Nylon 6/6	250
• PPR-6060B	—	—	0.236	6.0	0.098 - 0.157	2.5 - 4.0	0.429	10.9	0.059	1.5	0.240	6.1	2	LDPE/HDPE	1000
• 172616069902	• 172616000002	—	0.240	6.1	0.098 - 0.157	2.5 - 4.0	0.433	11.0	0.063	1.6	0.236	6.1	2	Nylon 6/6,POM	250
—	—	PPR-4	0.252	6.4	0.280 - 0.500	7.1 - 12.7	0.569	11.9	0.079	2.0	0.622	15.8	1	Nylon 6/6	1000
—	—	PPR-9	0.252	6.4	0.059 - 0.252	1.5 - 6.4	0.437	11.1	0.185	4.7	0.366	9.3	1	Nylon 6/6	1000
• 093002669902	—	• 093002600002	0.252	6.4	0.157 - 0.374	4.0 - 9.5	0.433	11.0	0.079	2.0	0.472	12.0	1	Nylon 6/6	250
• 093016059902	—	• 093016000002	0.189	4.8	0.098 - 0.354	2.5 - 9.0	0.472	12.0	0.102	2.6	0.465	11.8	1	Nylon 6/6	250
• 093000869902	—	• 093000800002	0.189	4.8	0.157 - 0.343	4.0 - 8.7	0.189	4.8	0.047	1.2	0.433	11.0	1	Nylon 6/6	250
• 093001869902	—	• 093001800002	0.28	7.1	0.157 - 0.472	4.0 - 12.0	0.669	17.0	0.098	2.5	0.689	17.5	1	Nylon 6/6	250
• 093017059902	—	• 093017059902	0.315	8.0	0.118 - 0.394	3.0 - 10.0	0.531	13.5	0.118	3.0	0.512	13.0	1	Nylon 6/6	250

DF Series
Drive Fastener

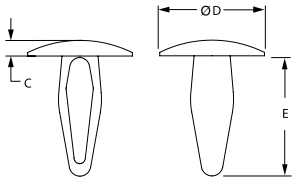


Specifications:
- Material: See Table
- Color: Natural

Features:
- Multi-purpose front loaded fastener
- Can be used as a decorative hole plug
- Inserts easily by hand
- Hollow body increases flexibility for ease of insertion and removal

Item No.		Ø Hole		Total Holding Thickness		Ø D		H		L Ref.		Bulk Pack Qty.
UL94 HB Acetal	UL94 V-0 Nylon 6/6	in	mm	in	mm	in	mm	in	mm	in	mm	
DF-137-010	DFVO-137-010	0.126	3.2	0.039 - 0.177	1.0 - 4.5	0.315	8.0	0.059	1.5	0.512	13.0	1000
DF-137-020	DFVO-137-020	0.153	3.9	0.039 - 0.197	1.0 - 5.0	0.354	9.8	0.063	1.6	0.551	14.0	1000
DF-137-030	DFVO-137-030	0.185	4.7	0.039 - 0.216	1.0 - 5.5	0.394	10.0	0.067	1.7	0.590	15.0	1000
DF-137-031	DFVO-137-031	0.185	4.7	0.039 - 0.216	1.0 - 5.5	0.433	11.0	0.114	2.9	0.590	15.0	1000
DF-137-040	DFVO-137-040	0.252	6.4	0.059 - 0.256	1.5 - 6.5	0.472	12.0	0.079	2.0	0.669	17.0	1000
DF-137-050	DFVO-137-050	0.307	7.8	0.059 - 0.275	1.5 - 7.0	0.551	14.0	0.087	2.2	0.748	19.0	1000
DF-137-060	DFVO-137-060	0.216	5.5	0.236 - 0.354	6.0 - 9.0	0.472	12.0	0.079	2.0	0.689	17.5	1000

MMB/ARW/091/AC Series
Mounting Button

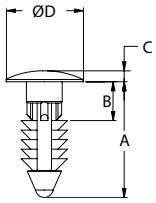


EXPANDED LINE

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Item No.		Ø Hole		Total Holding Thickness		Ø D		C		E		Bulk Pack Qty
Black	Natural	in	mm	in	mm	in	mm	in	mm	in	mm	
-	27AC0010	0.062 - 0.065	1.6 - 1.7	0.010 - 0.031	0.3 - 0.8	0.100	2.5	0.125	3.2	0.020	0.5	1000
• 091 000 059 902	• 091 000 000 002	0.110	2.8	0.031 - 0.142	0.8 - 3.6	0.307	7.8	0.471	12.0	0.047	1.2	500
-	27AC0020	0.120 - 0.135	2.5 - 3.2	0.062 - 0.125	1.6 - 3.2	0.270	6.9	0.330	8.4	0.040	1.0	1000
MMB-125-01BK	MMB-125-01	0.125	3.2	0.080 - 0.100	2.0 - 2.5	0.272	6.9	0.331	8.4	0.039	1.0	1000
MMB-130-01BK	MMB-130-01	0.132	3.4	0.060 - 0.130	1.6 - 3.2	0.280	7.1	0.390	9.9	0.059	1.5	1000
MMB-136-01BK	MMB-136-01	0.136	3.5	0.120 - 0.160	2.9 - 4.0	0.406	10.3	0.437	11.1	0.067	1.7	1000
• 091 000 159 902	• 091 000 100 002	0.138	3.5	0.094 - 0.228	2.4 - 5.8	0.299	7.6	0.512	13.0	0.043	1.1	500
• 091 000 259 902	• 091 000 200 002	0.138	3.5	0.034 - 0.157	0.9 - 4.0	0.406	10.3	0.433	11.0	0.097	2.5	500
• 091 000 359 902	• 091 000 300 002	0.138	3.5	0.034 - 0.157	0.9 - 4.0	0.406	10.3	0.433	11.0	0.189	4.8	500
-	27AC0003	0.151 - 0.161	3.8 - 4.1	0.062 - 0.125	1.6 - 3.2	0.280	7.1	0.390	9.9	0.040	1.0	1000
-	27AC000	0.151 - 0.161	3.8 - 4.1	0.062 - 0.145	1.6 - 3.7	0.280	7.1	0.400	10.2	0.080	2.0	1000
-	27AC0001	0.182 - 0.192	4.6 - 4.9	0.062 - 0.125	1.6 - 3.2	0.360	9.1	0.400	10.2	0.060	1.5	1000
-	27AC0006	0.182 - 0.192	4.6 - 4.9	0.310 - 0.330	7.8 - 7.9	0.370	9.4	0.531	13.5	0.060	1.5	1000
-	27AC0011	0.182 - 0.192	4.6 - 4.9	0.165 - 0.185	4.2 - 4.7	0.375	9.5	0.515	13.1	0.060	1.5	1000
-	27AC0031	0.182 - 0.192	4.6 - 4.9	0.200 - 0.250	5.1 - 6.4	0.270	6.9	0.525	13.3	0.070	1.8	1000
MMB-187-01BK	MMB-187-01	0.187	4.7	0.098 - 0.157	2.5 - 4.0	0.500	12.7	0.429	10.9	0.087	2.2	1000
• 091 000 659 902	• 091 000 600 002	0.189	4.8	0.035 - 0.157	0.9 - 4.0	0.374	9.5	0.433	11.0	0.059	1.5	500
• 091 000 459 902	• 091 000 400 002	0.197	5.0	0.059 - 0.138	1.5 - 3.5	0.374	9.5	0.433	11.0	0.063	1.6	500
• 091 000 769 902	• 091 000 700 002	0.197	5.0	0.118 - 0.236	3.0 - 6.0	0.543	13.8	0.567	14.4	0.087	2.2	250
• 091 001 069 902	• 091 001 000 002	0.197	5.0	0.020 - 0.118	0.5 - 3.0	0.531	13.5	0.567	14.4	0.102	2.6	250
MMB-210-01BK	MMB-210-01	0.210	5.3	0.097 - 0.157	2.5 - 4.0	0.551	14.0	0.551	14.0	0.118	3.0	1000
-	27AC0005	0.213 - 0.223	5.4 - 5.7	0.125 - 0.187	3.2 - 4.7	0.370	9.4	0.450	11.4	0.060	1.5	1000
-	27AC0007	0.213 - 0.223	5.4 - 5.7	0.062 - 0.125	1.6 - 3.2	0.370	9.4	0.540	13.7	0.060	1.5	1000
MMB-132-01BK	MMB-132-01	0.215	5.5	0.062 - 0.157	1.6 - 3.2	0.370	9.4	0.453	11.5	0.059	1.5	1000
• 091 001 259 902	• 091 001 200 002	0.228	5.8	0.236 - 0.335	6.0 - 8.5	0.591	15.0	0.709	18.0	0.118	3.0	250
-	27AC0026	0.240 - 0.260	6.1 - 6.6	0.095 - 0.218	2.4 - 5.5	0.75	19.1	0.606	15.4	0.055	1.4	1000
-	27AC0009	0.250 - 0.261	6.4 - 6.6	0.125 - 0.187	3.2 - 4.7	0.480	12.2	0.562	14.3	0.060	1.5	1000
-	27AC0016	0.250 - 0.262	6.4 - 6.7	0.360 - 0.380	9.1 - 9.7	0.620	15.7	0.767	19.5	0.065	1.7	1000
-	27AC0024	0.250 - 0.263	6.4 - 6.7	0.500 - 0.750	12.7 - 19.1	0.610	15.5	10.021	25.9	0.068	1.7	1000
MMB-250-01BK	MMB-250-01	0.250	6.4	0.098 - 0.220	2.5 - 5.6	0.500	12.7	0.642	16.3	0.087	2.2	1000
• 091 001 159 902	• 091 001 100 002	0.256	6.5	0.118 - 0.276	3.0 - 7.0	0.551	14.0	0.748	19.0	0.098	2.5	250
• 091 001 359 902	• 091 001 300 002	0.260	6.6	0.031 - 0.197	0.8 - 5.0	0.500	12.7	0.571	14.5	0.067	1.7	250
• 091 001 559 902	• 091 001 500 002	0.283	7.2	0.079 - 0.217	2.0 - 5.5	0.563	14.3	0.669	17.0	0.079	2.0	250
• 091 001 653 902	• 091 001 650 002	0.370	9.4	0.118 - 0.354	3.0 - 9.0	0.787	20.0	0.945	24.0	0.102	2.6	250

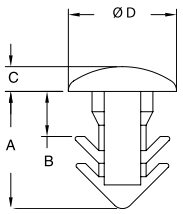
PL Series
Pawl Lock

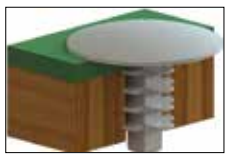


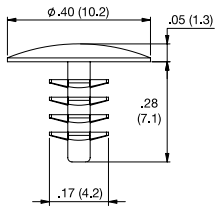
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Item No.	Ø Hole		B		Ø D		A		C		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	
PL-250-10-01	0.250	6.35	0.125	3.2	0.500	12.7	0.606	15.4	0.078	2.0	1000
PL-250-12-01	0.250	6.35	0.264	6.7	0.500	12.7	0.751	19.1	0.070	1.8	1000
PL-250-20-01	0.216	5.5	0.082	2.1	0.354	9.0	0.984	25.0	0.070	1.8	1000

MPLE/PFP Series
Mini Pawl Lock







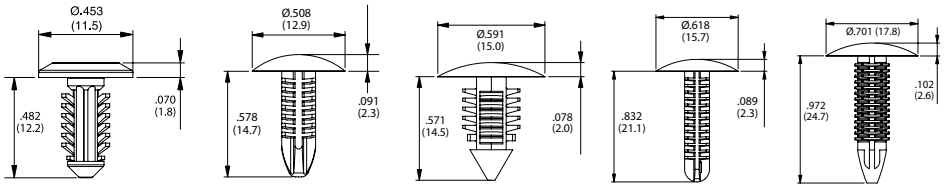
Specifications:
- Material:UL94 V-2 Nylon
- Color: Natural

MPLE **PFP**

Item No.	Ø Hole		B		Ø D		A		C		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	
MPLE-3.2M-01	0.126	3.2	0.080	2.0	0.190	4.8	0.190	4.8	0.040	1.1	1000
MPLE-32M/35M-01	0.126 - 0.138	3.2 - 3.5	0.080	2.0	0.190	4.8	0.200	5.2	0.040	1.1	1000
PFP-7-01	0.139	3.5	—	—	0.40	10.2	0.28	7.1	0.05	1.3	1000

FIR TREE RIVETS

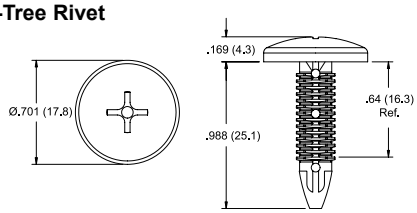
BPF Series
Barbed Push Fastener



Specifications:
- Material: Nylon 6/6
- Color: Black

Item No.	Ø Hole in	Ø Hole mm	Panel Thickness in	Panel Thickness mm	Head Dia. in	Head Dia. mm	Lock Length in	Lock Length mm	Head Thickness in	Head Thickness mm	Type	Flame Rating	Pack Qty.
BPF-A414	0.185	4.7	0.031 - 0.118	0.8 - 3.0	0.453	11.5	0.482	12.2	0.070	1.8	1	UL94V-0	1000
BPF-F4410	0.197	5.0	0.059 - 0.295	1.5 - 7.5	0.508	12.9	0.578	14.7	0.091	2.3	2	UL94V-2	1000
BPF-F3T31	0.197	5.0	0.079 - 0.394	2.0 - 10.0	0.618	15.7	0.832	21.1	0.089	2.3	4	UL94V-0	1000
BPF-F2495	0.276	7.0	0.125 - 0.236	3.2 - 6.0	0.591	15.0	0.571	14.5	0.078	2.0	3	UL94V-0	1000
BPF-F1G12	0.276	7.0	0.079 - 0591	2.0 - 15.0	0.701	17.8	0.972	24.7	0.102	2.6	5	UL94V-0	1000

BPFR Series
Removable Fir-Tree Rivet



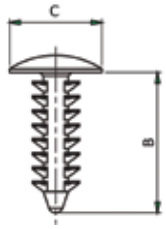
Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:
- Removable from threaded holes using a phillips head screwdriver

Item No.	Threaded Hole	Non-Threaded Hole in	Non-Threaded Hole mm	Medium Panel Thickness in	Medium Panel Thickness mm	Pack Qty.
BPFR-1	5/16 (M8)	0.276	7.0	0.236	6.0	1000

Fir Tree Rivets

EXPANDED LINE



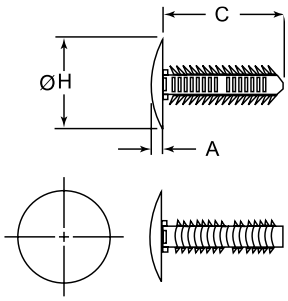
Specifications:
- Material: Nylon 6/6
- Color: See Table

Features:
- Ideal for threaded, non-threaded, drilled or punched holes
- Designed to be non-removable

	Item No. Black		Item No. Natural	Ø Hole in	Ø Hole mm	Panel Thickness in	Panel Thickness mm	B in	B mm	Ø C in	Ø C mm	Head Height in	Head Height mm	Pack Qty
•	**468809**	•	**468833**	0.118	3.0	0.157 - 0.650	4.0 - 16.5	0.728	18.5	0.217	5.5	0.039	1.0	1000
•	**468811**	•	**468835**	0.138	3.5	0.028 - 0.197	0.7 - 5.0	0.374	9.5	0.358	9.1	0.059	1.5	1000
•	**167 102 069 902**	•	**167 102 000 002**	0.138	3.5	0.028 - 0.197	0.7 - 5.0	0.374	9.5	0.358	9.1	—	—	100
•	**167 102 569 902**	•	**167 102 500 002**	0.157	4.0	0.028 - 0.236	0.7 - 6.0	0.433	11.0	0.358	9.1	—	—	100
	27RT187500		-	0.188	4.8	0.025 - 0.365	0.6 - 9.3	0.500	12.7	0.375	9.5	0.070	1.8	1000
	27RT187550		-	0.188	4.8	0.030 - 0.330	0.8 - 8.4	0.560	14.2	0.435	11.0	0.068	1.7	1000
	27RT187700PPB		-	0.188	4.8	0.125 - 0.450	3.2 - 11.4	0.700	17.8	0.300	7.6	0.065	1.7	1000
•	**460436**		-	0.189	4.8	0.024 - 0.363	0.6 - 9.2	0.500	12.7	0.375	9.5	0.071	1.8	1000
•	**460437**		-	0.189	4.8	0.031 - 0.331	0.8 - 8.4	0.563	14.3	0.437	11.1	0.067	1.7	1000
•	**468813**	•	**468837**	0.189	4.8	0.028 - 0.512	0.7 - 13.0	0.681	17.3	0.433	11.0	0.067	1.7	1000
	167 103 069 902		**167 103 000 002**	0.189	4.8	0.028 - 0.512	0.7 - 13.0	0.681	17.3	0.433	11.0	—	—	100
	167 103 569 902		**167 103 500 002**	0.189	4.8	0.028 - 0.315	0.7 - 8.0	0.480	12.2	0.433	11.0	—	—	100
	167 104 069 902		**167 104 000 002**	0.189	4.8	0.028 - 0.315	0.7 - 8.0	0.480	12.2	0.748	19.0	—	—	100
•	**463609**		-	0.193	4.9	0.094 - 0.291	2.4 - 7.4	0.492	12.5	0.441	11.2	0.043	1.1	100
•	**468814**	•	**468838**	0.197	5.0	0.047 - 0.236	1.2 - 6.0	0.433	11.0	0.630	16.0	0.079	2.0	1000
•	**468815**	•	**468838**	0.197	5.0	0.067 - 0.315	1.7 - 8.0	0.500	12.7	0.433	11.0	0.039	1.0	1000
•	**167 104 569 902**	•	**167 104 500 002**	0.217	5.5	0.059 - 0.559	1.5 - 14.2	0.776	19.7	0.650	16.5	—	—	100
•	**167 105 069 902**	•	**167 105 000 002**	0.217	5.5	0.059 - 0.559	1.5 - 14.2	0.776	19.7	0.512	13.0	—	—	100
•	**468816**	•	**468840**	0.236	6.0	0.079 - 0.315	2.0 - 8.0	0.500	12.7	0.610	15.5	0.039	1.0	1000
•	**468817**	•	**468841**	0.236	6.0	0.098 - 0.315	2.5 - 8.0	0.591	15.0	0.630	16.0	0.079	2.0	1000
•	**468819**	•	**468843**	0.236	6.0	0.138 - 0.748	3.5 - 19.0	0.945	24.0	0.500	12.7	0.059	1.5	1000
•	**468820**	•	**468844**	0.236	6.0	0.091 - 0.350	2.3 - 8.9	0.610	15.5	0.701	17.8	0.094	2.4	1000
•	**468821**	•	**468845**	0.236	6.0	0.098 - 0.472	2.5 - 12.0	0.803	20.4	0.701	17.8	0.098	2.5	1000
•	**167 107 069 902**	•	**167 107 000 002**	0.236	6.0	0.098 - 0.472	2.5 - 12.0	0.803	20.4	0.701	17.8	—	—	100
•	**167 106 069 902**	•	**167 106 000 002**	0.236	6.0	0.091 - 0.744	2.3 - 18.9	0.610	15.5	0.701	17.8	—	—	100
•	**167 107 269 902**	•	**167 107 200 002**	0.236	6.0	0.098 - 0.799	2.5 - 20.3	1.059	26.9	0.701	17.8	—	—	100
•	**167 106 569 902**	•	**167 106 500 002**	0.236	6.0	0.126 - 0.406	3.2 - 10.3	0.626	15.9	0.500	12.7	—	—	100
•	**460439**		-	0.250	6.4	0.106 - 0.299	2.7 - 7.6	0.437	11.1	0.701	17.8	0.098	2.5	1000
•	**460440**		-	0.250	6.4	0.150 - 0.531	3.8 - 13.5	0.744	18.9	0.701	17.8	0.106	2.7	1000
	27RT250440		-	0.250	6.4	0.105 - 0.300	2.7 - 7.6	0.470	11.9	0.700	17.8	0.100	2.5	1000
	27RT250800		-	0.250	6.4	0.150 - 0.535	3.8 - 13.6	0.780	19.8	0.700	17.8	0.100	2.5	1000
•	**468824**	•	**468848**	0.252	6.4	0.106 - 0.287	2.7 - 7.3	0.626	15.9	0.752	19.1	0.031	0.8	1000
•	**468826**	•	**468850**	0.276	7.0	0.079 - 0.984	2.0 - 25.0	1.370	34.8	1.181	30.0	0.087	2.2	1000
•	**167 107 569 902**	•	**167 107 500 002**	0.276	7.0	0.059 - 0.551	1.5 - 14.0	0.835	21.2	0.748	19.0	—	—	100
•	**167 108 069 902**	•	**167 108 000 002**	0.276	7.0	0.059 - 1.000	1.5 - 25.4	1.201	30.5	0.748	19.0	—	—	100
•	**468828**	•	**468852**	0.276	7.0	0.276 - 0.283	7.0 - 7.2	0.744	18.9	0.626	15.9	0.039	1.0	1000
	27RT2811000		-	0.281	7.1	0.093 - 0.500	2.4 - 12.7	0.890	22.6	0.625	15.9	0.110	2.8	1000
•	**495230**	•	**497397**	0.283	7.2	0.059 - 0.551	1.5 - 14.0	0.835	21.2	0.748	19.0	0.094	2.4	1000
•	**495231**	•	**495233**	0.283	7.2	0.059 - 1.000	1.5 - 25.4	1.201	30.5	0.748	19.0	0.079	2.0	1000
•	**468799**		-	0.295	7.5	0.106 - 0.669	2.7 - 17.0	0.827	21.0	0.748	19.0	0.079	2.0	1000
•	**460441**		-	0.307	7.8	0.094 - 0.500	2.4 - 12.7	0.890	22.6	0.626	15.9	0.110	2.8	1000
•	**468829**	•	**468853**	0.315	8.0	0.130 - 0.500	3.3 - 12.7	0.661	16.8	0.500	12.7	0.059	1.5	1000
•	**167 013 069 902**	•	**167 013 000 002**	0.315	8.0	0.130 - 0.500	3.3 - 12.7	0.661	16.8	0.500	12.7	—	—	100
•	**468830**		-	0.343	8.7	0.055 - 0.512	1.4 - 13.0	0.752	19.1	0.630	16.0	0.091	2.3	1000
•	**167 108 569 902**		-	0.343	8.7	0.055 - 0.512	1.4 - 13.0	0.752	19.1	0.630	16.0	—	—	100
•	**468831**	•	**468855**	0.394	10.0	0.059 - 0.787	1.5 - 20.0	1.110	28.2	0.858	21.8	0.138	3.5	1000
•	**167 109 569 902**	•	**167 109 500 002**	0.394	10.0	0.059 - 0.787	1.5 - 20.0	1.110	28.2	0.858	21.8	—	—	100
	167 109 069 902		**167 109 000 002**	0.394	10.0	0.114 - 0.567	2.9 - 14.4	0.819	20.8	1.000	25.4	—	—	100

FIR TREE RIVETS

XT/RBF Series
Fir Tree Clip Fastener



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Ribbed design ensures fast and easy installation while securely holding into various materials like wood, metal, foam, rubber and plastic
- When pushed into a hole the flexible ribs deflect then spring back to lock securely in place

Item No.	Ø Hole		Panel Thickness		Ø H		C		A		Pack Qty.
	n	mm	in	mm	in	mm	in	mm	in	mm	
XT1250125A	0.125	3.2	0.062 - 0.125	1.6 - 3.2	0.344	8.7	0.208	5.3	0.062	1.6	1000
XT1250250A	0.125	3.2	0.062 - 0.250	1.6 - 6.4	0.344	8.7	0.321	8.2	0.062	1.6	1000
XT1250375A	0.125	3.2	0.062 - 0.375	1.6 - 9.5	0.344	8.7	0.458	11.6	0.062	1.6	1000
RBF-4-8.6-8	0.157	4.0	0.080 - 0.170	2.1 - 4.3	0.315	8.0	0.339	8.6	0.039	1.0	1000
RBF-4-8.6-12	0.157	4.0	0.080 - 0.170	2.1 - 4.3	0.472	12.0	0.339	8.6	0.059	1.5	1000
RBF-4-8.6-16	0.157	4.0	0.080 - 0.170	2.1 - 4.3	0.630	16.0	0.339	8.6	0.079	2.0	1000
RBF-4-11.1-8	0.157	4.0	0.080 - 0.280	2.1 - 7.2	0.315	8.0	0.437	11.1	0.039	1.0	1000
RBF-4-11.1-12	0.157	4.0	0.080 - 0.280	2.1 - 7.2	0.472	12.0	0.437	11.1	0.059	1.5	1000
RBF-4-11.1-16	0.157	4.0	0.080 - 0.280	2.1 - 7.2	0.630	16.0	0.437	11.1	0.079	2.0	1000
RBF-4-15-8	0.157	4.0	0.220 - 0.420	5.7 - 10.7	0.315	8.0	0.591	15.0	0.039	1.0	1000
RBF-4-15-12	0.157	4.0	0.220 - 0.420	5.7 - 10.7	0.472	12.0	0.591	15.0	0.059	1.5	1000
RBF-4-15-16	0.157	4.0	0.220 - 0.420	5.7 - 10.7	0.630	16.0	0.591	15.0	0.079	2.0	1000
RBF-4.8-8.6-8	0.188	4.8	0.080 - 0.170	2.1 - 4.3	0.315	8.0	0.339	8.6	0.039	1.0	1000
RBF-4.8-8.6-12	0.188	4.8	0.080 - 0.170	2.1 - 4.3	0.472	12.0	0.339	8.6	0.059	1.5	1000
RBF-4.8-8.6-16	0.188	4.8	0.080 - 0.170	2.1 - 4.3	0.630	16.0	0.339	8.6	0.079	2.0	1000
XT1880250A	0.188	4.8	0.062 - 0.250	1.6 - 6.4	0.500	12.7	0.348	8.8	0.078	2.0	1000
RBF-4.8-11.1-8	0.188	4.8	0.080 - 0.280	2.1 - 7.2	0.315	8.0	0.437	11.1	0.039	1.0	1000
RBF-4.8-11.1-12	0.188	4.8	0.080 - 0.280	2.1 - 7.2	0.472	12.0	0.437	11.1	0.059	1.5	1000
RBF-4.8-11.1-16	0.188	4.8	0.080 - 0.280	2.1 - 7.2	0.630	16.0	0.437	11.1	0.079	2.0	1000
XT1880375A	0.188	4.8	0.062 - 0.375	1.6 - 9.5	0.500	12.7	0.473	12.0	0.078	2.0	1000
RBF-4.8-15-8	0.188	4.8	0.220 - 0.420	5.7 - 10.7	0.315	8.0	0.591	15.0	0.039	1.0	1000
RBF-4.8-15-12	0.188	4.8	0.220 - 0.420	5.7 - 10.7	0.472	12.0	0.591	15.0	0.059	1.5	1000
RBF-4.8-15-16	0.188	4.8	0.220 - 0.420	5.7 - 10.7	0.630	16.0	0.591	15.0	0.079	2.0	1000
XT1880500A	0.188	4.8	0.062 - 0.500	1.6 - 12.7	0.500	12.7	0.598	15.2	0.078	2.0	1000
XT1880625A	0.188	4.8	0.062 - 0.625	1.6 -15.9	0.500	12.7	0.723	18.4	0.078	2.0	1000
XT1880750A	0.188	4.8	0.062 - 0.750	1.6 - 19.1	0.500	12.7	0.848	21.5	0.078	2.0	1000
RBF-6.4-8.6-8	0.250	6.4	0.080 - 0.170	2.1 - 4.3	0.315	8.0	0.339	8.6	0.039	1.0	1000
RBF-6.4-8.6-12	0.250	6.4	0.080 - 0.170	2.1 - 4.3	0.472	12.0	0.339	8.6	0.059	1.5	1000
RBF-6.4-8.6-16	0.250	6.4	0.080 - 0.170	2.1 - 4.3	0.630	16.0	0.339	8.6	0.079	2.0	1000
XT2500250A	0.250	6.4	0.062 - 0.250	1.6 - 6.4	0.700	17.8	0.391	9.9	0.100	2.5	1000
RBF-6.4-11.1-8	0.250	6.4	0.080 - 0.280	2.1 - 7.2	0.315	8.0	0.437	11.1	0.039	1.0	1000
RBF-6.4-11.1-12	0.250	6.4	0.080 - 0.280	2.1 - 7.2	0.472	12.0	0.437	11.1	0.059	1.5	1000
RBF-6.4-11.1-16	0.250	6.4	0.080 - 0.280	2.1 - 7.2	0.630	16.0	0.437	11.1	0.079	2.0	1000
XT2500375A	0.250	6.4	0.062 - 0.375	1.6 - 9.5	0.700	17.8	0.506	12.9	0.100	2.5	1000
RBF-6.4-15-8	0.250	6.4	0.220 - 0.420	5.7 - 10.7	0.315	8.0	0.591	15.0	0.039	1.0	1000
RBF-6.4-15-12	0.250	6.4	0.220 - 0.420	5.7 - 10.7	0.472	12.0	0.591	15.0	0.059	1.5	1000
RBF-6.4-15-16	0.250	6.4	0.220 - 0.420	5.7 - 10.7	0.630	16.0	0.591	15.0	0.079	2.0	1000
XT2500500A	0.250	6.4	0.062 - 0.500	1.6 - 12.7	0.700	17.8	0.630	16.0	0.100	2.5	1000
XT2500625A	0.250	6.4	0.062 - 0.625	1.6 - 15.9	0.700	17.8	0.755	19.2	0.100	2.5	1000
XT2500750A	0.250	6.4	0.062 - 0.750	1.6 - 19.1	0.700	17.8	0.880	22.4	0.100	2.5	1000
XT2500875A	0.250	6.4	0.062 - 0.875	1.6 - 22.2	0.700	17.8	1.004	25.5	0.100	2.5	1000
XT2501000A	0.250	6.4	0.062 - 1.000	1.6 - 25.4	0.700	17.8	1.120	28.4	0.100	2.5	1000
XT2501250A	0.250	6.4	0.062 - 1.250	1.6 - 31.8	0.700	17.8	1.380	35.1	0.100	2.5	1000
XT2501500A	0.250	6.4	0.062 - 1.500	1.6 - 38.1	0.700	17.8	1.632	41.5	0.100	2.5	1000
XT2501750A	0.250	6.4	0.062 - 1.750	1.6 - 44.45	0.700	17.8	1.882	47.8	0.100	2.5	1000
XT2502000A	0.250	6.4	0.062 - 2.000	1.6 - 50.8	0.787	20.0	2.132	54.2	0.100	2.5	1000
XT2810250A	0.281	7.1	0.062 - 0.250	1.6 - 6.4	0.787	20.0	0.384	9.8	0.100	2.5	1000
RBF-7.1-11.1-8	0.281	7.1	0.080 - 0.280	2.1 - 7.2	0.315	8.0	0.437	11.1	0.039	1.0	1000
RBF-7.1-11.1-12	0.281	7.1	0.080 - 0.280	2.1 - 7.2	0.472	12.0	0.437	11.1	0.059	1.5	1000
RBF-7.1-11.1-16	0.281	7.1	0.080 - 0.280	2.1 - 7.2	0.630	16.0	0.437	11.1	0.079	2.0	1000
XT2810375A	0.281	7.1	0.062 - 0.375	1.6 - 9.5	0.787	20.0	0.515	13.1	0.100	2.5	1000
RBF-7.1-15-8	0.281	7.1	0.150 - 0.420	3.8 - 10.7	0.315	8.0	0.591	15.0	0.039	1.0	1000
RBF-7.1-15-12	0.281	7.1	0.150 - 0.420	3.8 - 10.7	0.472	12.0	0.591	15.0	0.059	1.5	1000
RBF-7.1-15-16	0.281	7.1	0.150 - 0.420	3.8 - 10.7	0.630	16.0	0.591	15.0	0.079	2.0	1000
XT2810500A	0.281	7.1	0.062 - 0.500	1.6 - 12.7	0.787	20.0	0.642	16.3	0.100	2.5	1000
RBF-7.1-19-8	0.281	7.1	0.270 - 0.560	6.9 - 14.2	0.315	8.0	0.748	19.0	0.039	1.0	1000
RBF-7.1-19-12	0.281	7.1	0.270 - 0.560	6.9 - 14.2	0.472	12.0	0.748	19.0	0.059	1.5	1000
RBF-7.1-19-16	0.281	7.1	0.270 - 0.560	6.9 - 14.2	0.630	16.0	0.748	19.0	0.079	2.0	1000
XT2810625A	0.281	7.1	0.062 - 0.625	1.6 - 15.9	0.787	20.0	0.767	19.5	0.100	2.5	1000
XT2810750A	0.281	7.1	0.062 - 0.750	1.6 - 19.1	0.787	20.0	0.894	22.7	0.100	2.5	1000
XT2810875A	0.281	7.1	0.062 - 0.875	1.6 - 22.2	0.787	20.0	1.021	25.9	0.100	2.5	1000
XT2811000A	0.281	7.1	0.062 - 1.000	1.6 - 25.4	0.787	20.0	1.147	29.1	0.100	2.5	1000
XT2811250A	0.281	7.1	0.062 - 1.250	1.6 - 31.8	0.787	20.0	1.401	35.6	0.100	2.5	1000
XT2811500A	0.281	7.1	0.062 - 1.500	1.6 - 38.1	0.787	20.0	1.651	41.9	0.100	2.5	1000
XT2811750A	0.281	7.1	0.062 - 1.750	1.6 - 44.5	0.787	20.0	1.901	48.3	0.100	2.5	1000
XT2812000A	0.281	7.1	0.062 - 2.000	1.6 - 50.8	0.787	20.0	2.153	54.7	0.100	2.5	1000
27XT3120250	0.312	7.9	0.062 - 0.250	1.6 - 6.35	0.874	22.2	0.410	10.4	0.100	2.5	1000
27XT3120375	0.312	7.9	0.062 - 0.375	1.6 - 9.53	0.874	22.2	0.529	13.4	0.100	2.5	1000
27XT3120625	0.312	7.9	0.062 - 0.625	1.6 - 15.9	0.874	22.2	0.783	19.9	0.100	2.5	1000
27XT3120750	0.312	7.9	0.062 - 0.750	1.6 - 19.1	0.874	22.2	0.894	22.7	0.100	2.5	1000
27XT3120875	0.312	7.9	0.062 - 0.875	1.6 - 22.2	0.874	22.2	1.036	26.3	0.100	2.5	1000
27XT3121000	0.312	7.9	0.062 - 1.000	1.6 - 25.4	0.874	22.2	1.163	29.5	0.100	2.5	1000
27XT3121250	0.312	7.9	0.062 - 1.250	1.6 - 31.8	0.874	22.2	1.416	36.0	0.100	2.5	1000
27XT3121500	0.312	7.9	0.062 - 1.500	1.6 - 38.1	0.874	22.2	1.669	42.4	0.100	2.5	1000
XT3121750A	0.312	7.9	0.062 - 1.750	1.6 - 44.5	0.870	22.2	1.930	49.0	0.100	2.5	1000
XT3750250A	0.375	9.5	0.062 - 0.250	1.6 - 6.35	1.000	25.4	0.445	11.3	0.100	2.5	1000
XT3750375A	0.375	9.5	0.062 - 0.375	1.6 - 9.50	1.000	25.4	0.570	14.5	0.100	2.5	1000
XT3750500A	0.375	9.5	0.062 - 0.500	1.6 - 9.53	1.000	25.4	0.689	17.5	0.100	2.5	1000
XT3750625A	0.375	9.5	0.062 - 0.625	1.6 - 12.7	1.000	25.4	0.816	20.7	0.100	2.5	1000
XT3750750A	0.375	9.5	0.062 - 0.750	1.6 - 19.1	1.000	25.4	0.943	24.0	0.100	2.5	1000
XT3750875A	0.375	9.5	0.062 - 0.875	1.6 - 22.2	1.000	25.4	1.070	27.2	0.100	2.5	1000
XT3751000A	0.375	9.5	0.062 - 1.000	1.6 - 25.4	1.000	25.4	1.196	30.4	0.100	2.5	1000
XT3751250A	0.375	9.5	0.062 - 1.250	1.6 - 31.8	1.000	25.4	1.451	36.9	0.100	2.5	1000
XT3751500A	0.375	9.5	0.062 - 1.500	1.6 - 38.1	1.000	25.4	1.705	43.3	0.100	2.5	1000
XT3751750A	0.375	9.5	0.062 - 1.750	1.6 - 44.5	1.000	25.4	1.959	49.8	0.100	2.5	1000
XT3752000A	0.375	9.5	0.062 - 2.000	1.6 - 50.8	1.000	25.4	2.213	56.2	0.100	2.5	1000

FIR TREE RIVETS

BHF Series
Fir Tree Clip Fastener

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

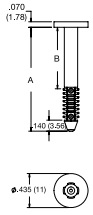


Fig. 1

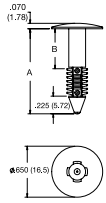


Fig. 2

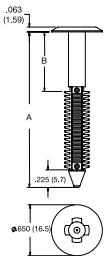
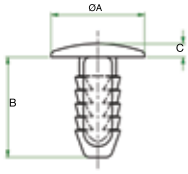


Fig. 3

Item No.	Fig.	Ø Hole in	Ø Hole mm	Panel Thickness in	Panel Thickness mm	B in	B mm	A in	A mm	Pack Qty.
BHF-1	1	0.187	4.8	0.035 - 0.385	0.9 - 9.8	0.02	.5	0.560	14.2	1000
BHF-2	1	0.187	4.8	0.125 - 0.475	3.2 - 12.1	0.11	2.8	0.650	16.5	1000
BHF-3	1	0.187	4.8	0.425 - 0.775	10.8 - 19.7	0.41	10.4	0.950	24.1	1000
BHF-4	1	0.187	4.8	0.800 - 1.150	20.3 - 29.2	0.79	19.9	1.330	33.7	1000
BHF-5	2	0.250	6.4	0.035 - 0.335	0.9 - 8.5	0.02	.5	0.590	15.1	1000
BHF-6	2	0.250	6.4	0.095 - 0.395	2.4 - 10.0	0.08	2.0	0.650	16.6	1000
BHF-7	2	0.250	6.4	0.325 - 0.625	8.3 - 15.9	0.31	7.9	0.880	22.5	1000
BHF-8	2	0.250	6.4	0.525 - 0.825	13.3 - 21.0	0.51	12.9	1.080	27.6	1000
BHF-9	3	0.281	7.1	0.075 - 0.475	1.9 - 12.1	0.06	1.5	0.740	18.7	1000
BHF-10	3	0.281	7.1	0.475 - 0.875	12.1 - 22.2	0.46	11.7	1.140	28.8	1000
BHF-11	3	0.281	7.1	0.075 - 1.025	1.9 - 26.0	0.06	1.5	1.280	32.6	1000
BHF-12	3	0.281	7.1	0.275 - 1.225	7.0 - 31.1	0.26	6.6	1.480	37.7	1000
BHF-13	3	0.281	7.1	0.575 - 1.525	14.6 - 38.7	0.56	14.2	1.780	45.3	1000
BHF-14	3	0.281	7.1	0.775 - 1.725	19.7 - 43.8	0.76	19.3	2.000	50.8	1000

092 Series
Fir Tree Rivet

New



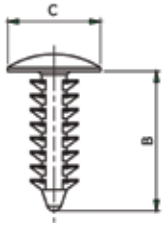
Specifications:
- Material: Nylon 6/6
- Color: See Table

Features:
- Easily installed by hand

Item No. Natural	Item No. Black	Ø Hole in	Ø Hole mm	Panel Thickness in	Panel Thickness mm	Ø A in	Ø A mm	B in	B mm	C in	C mm	Pack Qty.
092 0001 000 02	**092 0001 599 02**	0.228	5.8	0.118 - 0.433	3.0 - 11.0	0.551	14.0	0.591	15.0	0.079	2.0	500
092 0002 000 02	**092 0002 599 02**	0.228	5.8	0.118 - 0.591	3.0 - 15.0	0.630	16.0	0.748	19.0	0.079	2.0	500
092 0004 000 02	**092 0004 599 02**	0.276	7.0	0.118 - 0.748	3.0 - 19.0	0.709	18.0	0.906	23.0	0.079	2.0	500

497 Series
Fir Tree Rivets - Clear

New

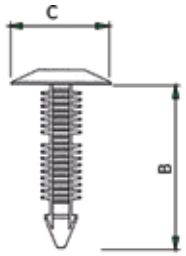


Specifications:
- Material: Polypropylene
- Color: Clear

Features:
- Ideal for threaded, non-threaded, drilled or punched holes
- Designed to be non-removable
- Good for Point of Purchase displays

Item No.	Ø Hole in	Ø Hole mm	Panel Thickness in	Panel Thickness mm	B in	B mm	Ø C in	Ø C mm	Head Height in	Head Height mm	Pack Qty
497394	0.118	3.0	0.157 - 0.650	4.0 - 16.5	0.728	18.5	0.217	5.5	0.039	1.0	1000
495222	0.189	4.8	0.028 - 0.512	0.7 - 13.0	0.681	17.3	0.433	11.0	0.067	1.7	1000
495221	0.236	6.0	0.098 - 0.472	2.5 - 12.0	0.803	20.4	0.701	17.8	0.098	2.5	1000
497395	0.236	6.0	0.079 - 0.315	2.0 - 8.0	0.500	12.7	0.610	15.5	0.039	1.0	1000
497396	0.236	6.0	0.098 - 0.315	2.5 - 8.0	0.591	15.0	0.630	16.0	0.079	2.0	1000
495223	0.236	6.0	0.091 - 0.350	2.3 - 8.9	0.610	15.5	0.701	17.8	0.094	2.4	1000
495224	0.252	6.4	0.421 - 1.134	10.7 - 28.8	1.381	35.1	0.701	17.8	0.098	2.5	1000
495225	0.252	6.4	0.106 - 0.287	2.7 - 7.3	0.626	15.9	0.752	19.1	0.031	0.8	1000
495226	0.276	7.0	0.028 - 0.787	0.7 - 20.0	1.075	27.3	0.709	18.0	0.079	2.0	1000
495227	0.276	7.0	0.079 - 0.984	2.0 - 25.0	1.370	34.8	1.181	30.0	0.087	2.2	1000
497397	0.283	7.2	0.059 - 0.551	1.5 - 14.0	0.835	21.2	0.748	19.0	0.094	2.4	1000
497398	0.295	7.5	0.106 - 0.669	2.7 - 17.0	0.827	21.0	0.748	19.0	0.079	2.0	1000

167 Series
Fir Tree Fasteners



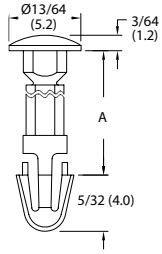
New

Specifications:
- Material: Nylon 6/6
- Color: Natural or Black

Features:
- Ideal for threaded, non-threaded, drilled or punched holes

Item No.		Ø Hole		Panel Thickness		B		Ø C		Pack Qty
Black	Natural	in	mm	in	mm	in	mm	in	mm	
167 201 069 902	167 201 000 002	0.106	2.7	0.059 - 0.157	1.5 - 4.0	0.276	7.0	0.236	6.0	100
167 201 569 902	167 201 500 002	0.106	2.7	0.059 - 0.315	1.5 - 8.0	0.433	11.0	0.236	6.0	100
167 202 069 902	167 202 000 002	0.106	2.7	0.059 - 0.591	1.5 - 15.0	0.709	18.0	0.236	6.0	100
167 002 069 902	167 002 000 002	0.118	3.0	0.138 - 0.248	3.5 - 6.3	0.307	7.8	0.236	6.0	100
167 002 569 902	167 002 500 002	0.118	3.0	0.157 - 0.472	4.0 - 12.0	0.571	14.5	0.217	5.5	100
167 002 769 902	167 002 700 002	0.118	3.0	0.157 - 0.650	4.0 - 16.5	0.728	18.5	0.213	5.4	100
167 203 069 902	167 203 000 002	0.130	3.3	0.059 - 0.177	1.5 - 4.5	0.315	8.0	0.394	10.0	100
167 003 069 902	167 003 000 002	0.157	4.0	0.035 - 0.315	0.9 - 8.0	0.531	13.5	0.374	9.5	100
167 204 069 902	167 204 000 002	0.161	4.1	0.039 - 0.098	1.0 - 2.5	0.236	6.0	0.472	12.0	100
167 204 569 902	167 204 500 002	0.161	4.1	0.059 - 0.217	1.5 - 5.5	0.394	10.0	0.472	12.0	100
167 205 069 902	167 205 000 002	0.161	4.1	0.079 - 0.394	2.0 - 10.0	0.591	15.0	0.472	12.0	100
167 003 569 902	167 003 500 002	0.187	4.8	0.035 - 0.209	0.9 - 5.3	0.437	11.1	0.433	11.0	100
167 004 069 902	167 004 000 002	0.189	4.8	0.098 - 0.598	2.5 - 15.2	0.701	17.8	0.469	11.9	100
167 004 569 902	167 004 500 002	0.189	4.8	0.079 - 0.394	2.0 - 10.0	0.642	16.3	0.433	11.0	100
167 005 069 902	167 005 000 002	0.197	5.0	0.047 - 0.236	1.2 - 6.0	0.433	11.0	0.630	16.0	100
167 005 569 902	167 005 500 002	0.197	5.0	0.067 - 0.315	1.7 - 8.0	0.500	12.7	0.433	11.0	100
—	167 006 000 002	0.197	5.0	0.059 - 0.480	1.5 - 12.2	0.701	17.8	0.748	19.0	50
167 206 069 902	167 206 000 002	0.220	5.6	0.079 - 0.276	2.0 - 7.0	0.472	12.0	0.512	13.0	100
167 206 569 902	167 206 500 002	0.220	5.6	0.059 - 0.591	1.5 - 15.0	0.787	20.0	0.512	13.0	100
167 207 069 902	167 207 000 002	0.220	5.6	0.039 - 10.063	1.0 - 27.0	1.260	32.0	0.512	13.0	100
167 208 069 902	167 208 000 002	0.232	5.9	0.079 - 0.217	2.0 - 5.5	0.433	11.0	0.669	17.0	100
167 208 569 902	167 208 500 002	0.232	5.9	0.039 - 0.394	1.0 - 10.0	0.591	15.0	0.669	17.0	100
167 209 069 902	167 209 000 002	0.232	5.9	0.079 - 0.748	2.0 - 19.0	0.945	24.0	0.669	17.0	100
167 006 569 902	167 006 500 002	0.236	6.0	0.079 - 0.315	2.0 - 8.0	0.500	12.7	0.610	15.5	100
167 006 769 902	—	0.236	6.0	0.094 - 0.319	2.4 - 8.1	0.500	12.7	0.748	19.0	100
167 007 069 902	—	0.236	6.0	0.098 - 0.394	2.5 - 10.0	0.709	18.0	0.512	13.0	100
167 007 569 902	167 007 500 002	0.236	6.0	0.138 - 0.748	3.5 - 19.0	0.945	24.0	0.500	12.7	100
167 008 569 902	167 008 500 002	0.236	6.0	0.067 - 10.252	1.7 - 31.8	1.441	36.6	1.000	25.4	100
167 009 069 902	167 009 000 002	0.252	6.4	0.035 - 10.043	0.9 - 26.5	1.500	38.1	0.496	12.6	100
167 210 069 902	167 210 000 002	0.269	6.8	0.059 - 0.354	1.5 - 9.0	0.531	14.0	0.512	13.0	100
167 010 069 902	167 010 000 002	0.276	7.0	0.051 - 0.441	1.3 - 11.2	0.705	17.9	0.937	23.8	100
167 011 069 902	167 011 000 002	0.276	7.0	0.094 - 0.469	2.4 - 11.9	0.744	18.9	0.626	15.9	100
167 011 569 902	167 011 500 002	0.276	7.0	0.098 - 0.866	2.5 - 22.0	1.311	33.3	0.598	15.2	100
167 012 069 902	167 012 000 002	0.276	7.0	0.051 - 0.902	1.3 - 22.9	1.260	32.0	0.760	19.3	100
167 012 569 902	167 012 500 002	0.276	7.0	0.531 - 0.921	13.5 - 23.4	1.189	30.2	1.252	31.8	100

SLPA Series
Snap Lock Pin with Arrowhead



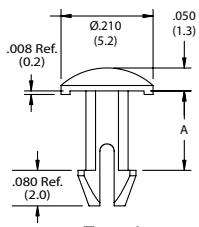
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Fixes connectors to PCB's
- Easily installed by hand

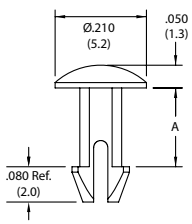
Item No.	Ø Hole		A		Pack Qty.
	in	mm	in	mm	
SLPA125-187-01	0.125	3.2	0.187	4.7	1000
SLPA125-250-01	0.125	3.2	0.250	6.4	1000
SLPA125-312-01	0.125	3.2	0.312	7.9	1000
SLPA125-375-01	0.125	3.2	0.375	9.5	1000
SLPA125-500-01	0.125	3.2	0.500	12.7	1000
SLPA125-625-01	0.125	3.2	0.625	15.9	1000
SLPA125-750-01	0.125	3.2	0.750	19.1	1000

SLP Series
Snap Lock Pin

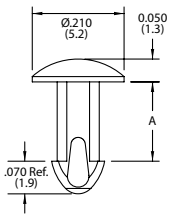
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural



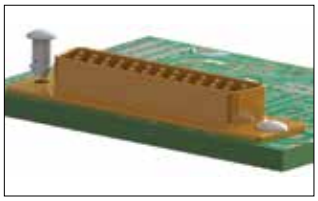
Type 1



Type 2



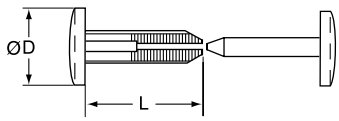
Type 3



Item No.			Ø Hole	Panel Thickness A	Head Ø	Pack Qty.
Type 1	Type 2	Type 3	in	in	in	
SLP100-177-01	SLP-1-177-01	SLP-2-177-01	0.098	0.177	0.210	1000
SLP100-221-01	SLP-1-221-01	SLP-2-221-01	0.098	0.221	0.210	1000
SLP100-236-01	SLP-1-236-01	SLP-2-236-01	0.098	0.236	0.210	1000
SLP100-245-01	SLP-1-245-01	SLP-2-245-01	0.098	0.245	0.210	1000
SLP100-307-01	SLP-1-307-01	SLP-2-307-01	0.098	0.307	0.210	1000
SLP100-316-01	SLP-1-316-01	SLP-2-316-01	0.098	0.316	0.210	1000
SLP100-330-01	SLP-1-330-01	SLP-2-330-01	0.098	0.33	0.210	1000
SLP100-413-01	SLP-1-413-01	SLP-2-413-01	0.098	0.413	0.210	1000
SLP100-638-01	SLP-1-638-01	SLP-2-638-01	0.098	0.638	0.210	1000
—	SLP125-187-01	—	0.125	0.187	0.200	1000

RATCHET FASTENERS

BR/QB Series
Ratchet Fasteners



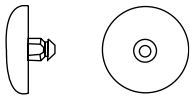
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:
- Quick to install
- Interlocking teeth provide strong locking capability

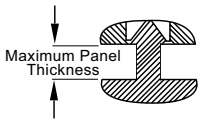
Item No.		Ø D	L	Ø Hole	Panel	Pack
Natural	Black	(Ref.)	(Ref.)		Thickness	Qty.
27QB375750N	27QB375750B	0.375	0.500	0.250	0.500 - 0.812	1000
27QB371000N	27QB371000B	0.375	0.750	0.250	0.780 - 1.375	1000
27QB625750N	27QB625750B	0.625	0.500	0.250	0.500 - 0.812	1000
27QB621000N	27QB621000B	0.625	0.750	0.250	0.780 - 1.375	1000
27QB375250N	27QB375250B	0.375	0.218	0.250	0.235 - 0.297	1000
27QB375375N	27QB375375B	0.375	0.343	0.250	0.346 - 0 .500	1000
27QB625250N	27QB625250B	0.625	0.218	0.250	0.235 - 0.297	1000
27QB625375N	27QB625375B	0.625	0.343	0.250	0.346 - 0.500	1000

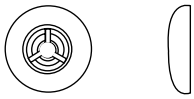
Item No.		Ø D	L	Ø Hole	Panel	Pack
Natural	Black	(Ref.)	(Ref.)		Thickness	Qty.
BR2-226-01	BR2-226-01BK	0.406	0.226	0.281	0.235 - 0.297	1000
BR2-344-01	BR2-344-01BK	0.406	0.343	0.281	0.346 - 0.500	1000
BR2-488-01	BR2-488-01BK	0.406	0.500	0.281	0.500 - 0.812	1000
BR2-768-01	BR2-768-01BK	0.406	0.750	0.281	0.781 - 1.375	1000
BR1-226-01	BR1-226-01BK	0.750	0.226	0.281	0.235 - 0.297	1000
BR1-344-01	BR1-344-01BK	0.750	0.344	0.281	0.346 - 0.500	1000
BR1-488-01	BR1-488-01BK	0.750	0.488	0.281	0.500 - 0.812	1000
BR1-768-01	BR1-768-01BK	0.750	0.768	0.281	0.781 - 1.375	1000

MBR/MR Series
Mini Rivets



Male Mini Rivet





Female Mini Rivet

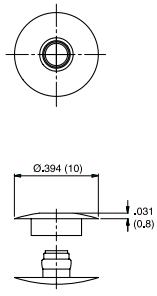
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:
- Quick to install by simply pressing together
- Male and female parts sold separately
- Ideal for outdoor environments
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.		Ø Hole		Max Panel Thickness		Head Ø		Head Thickness			Pack
Natural	Black	in	mm	in	mm	in	mm	in	mm	Mating Part	Qty.
Male											
27MRM090020	27MRM090020B	0.094	2.4	0.02	0.51	0.375	9.5	0.075	1.9	27MRF09 or 27MRF09B	1000
27MRM090032	27MRM090032B	0.094	2.4	0.032	0.81	0.375	9.5	0.075	1.9	27MRF09 or 27MRF09B	1000
27MRM090045	27MRM090045B	0.094	2.4	0.045	1.14	0.375	9.5	0.075	1.9	27MRF09 or 27MRF09B	1000
27MRM090062	27MRM090062B	0.094	2.4	0.062	1.57	0.375	9.5	0.075	1.9	27MRF09 or 27MRF09B	1000
27MRM090075	27MRM090075B	0.094	2.4	0.075	1.57	0.375	9.5	0.075	1.9	27MRF09 or 27MRF09B	1000
27MRM090090	27MRM090090B	0.094	2.4	0.090	1.57	0.375	9.5	0.075	1.9	27MRF09 or 27MRF09B	1000
27MRM090112	27MRM0900112B	0.094	2.4	0.125	3.18	0.375	9.5	0.075	1.9	27MRF09 or 27MRF09B	1000
27MRM090312	27MRM090312B	0.094	2.4	0.312	3.18	0.375	9.5	0.075	1.9	27MRF09 or 27MRF09B	1000
Female											
27MRF09	27MRF09B	—	—	—	—	0.375	9.5	0.075	1.9	27MRM09XXXX	1000
Male											
MBRP1-030-01	-	0.125	3.2	0.03	0.8	0.4	10.2	0.09	2.3	MBRR1-01	1000
27MRM125045	27MRM125045B	0.125	3.2	0.045	1.1	0.5	12.7	0.10	2.5	27MRF12 or 27MRF12B	1000
MBRP1-062-01	-	0.125	3.2	0.062	1.6	0.4	10.2	0.09	2.3	MBRR1-01	1000
MBRP1-100-01	-	0.125	3.2	0.100	2.5	0.4	10.2	0.09	2.3	MBRR1-01	1000
MBRP1-125-01	-	0.125	3.2	0.125	3.2	0.4	10.2	0.09	2.3	MBRR1-01	1000
27MRM125143	27MRM125143B	0.125	3.2	0.143	3.6	0.5	12.7	0.10	2.5	27MRF12 or 27MRF12B	1000
MBRP1-187-01	-	0.125	3.2	0.187	4.8	0.4	10.2	0.09	2.3	MBRR1-01	1000
MBRP1-250-01	-	0.125	3.2	0.250	6.4	0.4	10.2	0.09	2.3	MBRR1-01	1000
27MRM125325	27MRM125325B	0.125	3.2	0.325	8.3	0.5	12.7	0.10	2.5	27MRF12 or 27MRF12B	1000
Female											
MBRR1-01	-	—	—	—	—	0.4	10.2	0.10	2.5	MBRP1-XXX or RM	1000
27MRF12	27MRF12B	—	—	—	—	0.5	12.7	0.10	2.5	27MRM125XXXX	1000

8201 Series
Male/Female Push Clips

New



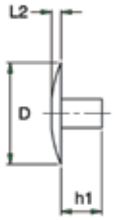
Specifications:
- Material: Nylon 6/6
- Color: See Table

Features:
- Low profile on both sides of the assembly
- Holds flat panels together
- Fast and easy clip in design
- Pack quantity includes 1000 each of male and female parts

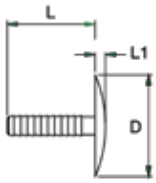
Item No.		Ø Hole		Maximum Panel Thickness		Pack
White	Black	in	mm	in	mm	Qty
820 102 000 8VR	820 102 000 1VR	0.236	6.0	0.087	2.2	1000
820 103 000 8VR	820 103 000 1VR	0.236	6.0	0.126	3.2	1000
820 104 000 8VR	820 104 000 1VR	0.236	6.0	0.165	4.2	1000
820 105 000 8VR	820 105 000 1VR	0.236	6.0	0.205	5.2	1000

8501 Series
SR1990 Snap Fasteners

New



Female Washer



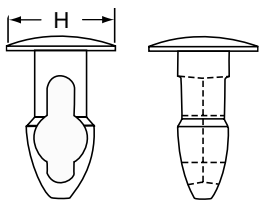
Male Clip

Specifications:
- Material:
  Female Washer: Low-Density Polyethylene
  Male Clip: Polypropylene
- Color: See Table

Features:
- Pack quantity includes 1000 each of male and female parts
- Ideal for fixing corrugated panel

Item No.			Ø Hole		Panel Thickness		Ø D		L	L1	L2	h1	Pack Qty.
Black	White	Clear	in	mm	in	mm	in	mm	in	in	in	in	
8502160901VR	8502160908VR	8502160900VR	0.315 - 0.787	8 - 20	0.236 - 0.394	6 - 10	1.181	30	0.551	0.118	0.118	0.236	1000
8502260901VR	8502260908VR	8502260900VR	0.315 - 0.787	8 - 20	0.236 - 0.394	6 - 22	1.181	30	1.102	0.118	0.118	0.236	1000
8502440901VR	8502440908VR	8502440900VR	0.315 - 0.787	8 - 20	0.787 - 1.575	20 - 40	1.181	30	1.732	0.118	0.118	0.236	1000
8501160901VR	8501160908VR	8501160900VR	0.315 - 0.787	8 - 20	0.472 - 0.709	12 - 18	1.181	30	0.551	0.118	0.118	0.472	1000
8501260901VR	8501260908VR	8501260900VR	0.315 - 0.787	8 - 20	0.472 - 1.181	12 - 30	1.181	30	1.102	0.118	0.118	0.472	1000
8501440901VR	8501440908VR	8501440900VR	0.315 - 0.787	8 - 20	0.472 - 1.811	12 - 46	1.181	30	1.732	0.118	0.118	0.472	1000
8501150901VR	8501150908VR	8501150900VR	0.197 - 0.630	5 - 10	0.000 - 0.315	0 - 8	0.591	15	0.591	0.079	0.138	0.000	1000
8501220901VR	8501220908VR	8501220900VR	0.197 - 0.630	5 - 10	0.000 - 0.630	0 - 16	0.591	15	0.866	0.079	0.138	.0000	1000

KY Series
Key Hole Clips



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Key-hole shaped interior allows for easy assembly with finger pressure
- Tapered end slides easily into any hole
- High retention force

Item No.	Ø Hole	Panel Thickness	Ø H	Pack Qty.
27KY1250093	0.125	0.093	0.250	1000
27KY1250125	0.125	0.125	0.250	1000
27KY1250156	0.125	0.156	0.250	1000
27KY1250187	0.125	0.188	0.250	1000
27KY1250219	0.125	0.219	0.250	1000
27KY1250250	0.125	0.250	0.250	1000
27KY1560093	0.156	0.093	0.312	1000
27KY1560125	0.156	0.125	0.312	1000
27KY1560156	0.156	0.156	0.312	1000
27KY1560187	0.156	0.187	0.312	1000
27KY1560218	0.156	0.218	0.312	1000
27KY1560250	0.156	0.250	0.312	1000
27KY1560281	0.156	0.281	0.312	1000
27KY1560312	0.156	0.312	0.312	1000
27KY1560343	0.156	0.343	0.312	1000
27KY1560375	0.156	0.375	0.312	1000
27KY1870093	0.187	0.093	0.312	1000
27KY1870125	0.187	0.125	0.312	1000
27KY1870156	0.187	0.156	0.312	1000
27KY1870187	0.187	0.187	0.312	1000
27KY1870219	0.187	0.219	0.312	1000
27KY1870250	0.187	0.250	0.312	1000
27KY1870281	0.187	0.281	0.312	1000
27KY1870312	0.187	0.312	0.312	1000
27KY1870343	0.187	0.344	0.312	1000

Item No.	Ø Hole	Panel Thickness	Ø H	Pack Qty.
27KY1870375	0.187	0.375	0.312	1000
27KY2190093	0.219	0.093	0.343	1000
27KY2190125	0.219	0.125	0.343	1000
27KY2190156	0.219	0.156	0.343	1000
27KY2190187	0.219	0.187	0.343	1000
27KY2190219	0.219	0.291	0.343	1000
27KY2190250	0.219	0.250	0.343	1000
27KY2190281	0.219	0.281	0.343	1000
27KY2190312	0.219	0.312	0.343	1000
27KY2190343	0.219	0.343	0.344	1000
27KY2190375	0.219	0.375	0.344	1000
27KY2500093	0.250	0.093	0.500	1000
27KY2500125	0.250	0.125	0.500	1000
27KY2500156	0.250	0.156	0.500	1000
27KY2500187	0.250	0.187	0.500	1000
27KY2500219	0.250	0.219	0.500	1000
27KY2500250	0.250	0.250	0.500	1000
27KY2500281	0.250	0.281	0.500	1000
27KY2500312	0.250	0.312	0.500	1000
27KY2500343	0.250	0.343	0.500	1000
27KY2500375	0.250	0.375	0.500	1000
27KY2500406	0.250	0.406	0.500	1000
27KY2500437	0.250	0.437	0.500	1000
27KY2500468	0.250	0.468	0.500	1000
27KY2500500	0.250	0.500	0.500	1000

SCREW COVERS & CAPS

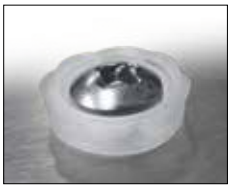
POB and POC Series
Decorative Screw Covers

Base

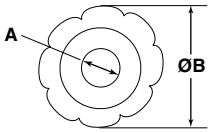
Cap

Specifications:
- Material: Base (POB): Polypropylene
- Color: Natural
- Material: Cap (POC): Polypropylene
- Color: See Table

Features:
- An attractive solution to cover screws
- Caps and bases sold separately
- Special colors available – consult factory
- POB bases must be paired with corresponding POC caps for assembly

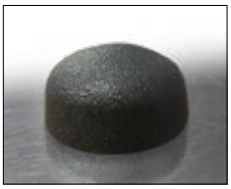


Base Only

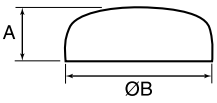


Base

Item No.	Screw Bases For	A	ØB	Covers Screw Size	Pack Qty.
POB100A	#4 Pan	0.120	0.415	0.115	500
POB125A	#6 Pan	0.151	0.415	0.115	500
POB150A	#4/#6 Countersunk	0.151	0.415	0.115	500
POB200A	#8 Pan	0.176	0.500	0.125	500
POB225A	#10 Pan	0.195	0.500	0.125	500
POB250A	#8/#10 Countersunk	0.195	0.500	0.125	500
POB300A	1/4"-20 Pan	0.245	0.620	0.125	500
POB350A	1/4"-20 Countersunk	0.245	0.620	0.13	500



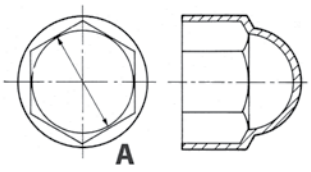
Cap
(Fully Assembled)



Cap

Item No.				Covers Screw Size	Pack Qty.
Matte White	Matte Black	A	Ø B		
POC100MA	POC100MB	0.200	0.500	#4 and #6	500
POC200MA	POC200MB	0.260	0.630	#8 and #10	500
POC300MA	POC300MB	0.260	0.700	1/4-20	500

BNC Series
Bolt and Nut Caps



Specifications:
- Material: Low-Density Polyethylene with UV Stabilizer
- Color: Black and White

Features:
- Protects against weathering and tampering
- Enhances finished appearance

Item No.		Fits	Ø A		Pack
Black	White	Bolt Size	in	mm	Qty.
BNC0189A	BNC0189B	#10	0.306	7.77	1000
BNC0250A	BNC0250B	1/4"	0.425	10.80	5000
BNC0312A	BNC0312B	5/16"	0.484	12.29	1000
BNC0375A	BNC0375B	3/8"	0.550	13.97	1000
BNC0437A	BNC0437B	7/16"	0.622	15.80	2500
BNC0500A	BNC0500B	1/2"	0.740	18.80	2000
BNC0625A	BNC0625B	5/8"	0.937	23.80	1000
BNC05A	BNC05B	5mm	0.311	7.90	5000

Item No.		Fits	Ø A		Pack
Black	White	Bolt Size	in	mm	Qty.
BNC06A	BNC06B	6mm	0.386	9.80	5000
BNC08A	BNC08B	8mm	0.504	12.80	5000
BNC10A	BNC10B	10mm	0.661	16.79	2500
BNC14A	BNC14B	14mm	0.858	21.79	1200
BNC18A	BNC18B	18mm	1.055	26.80	1500
BNC20A	BNC20B	20mm	1.173	29.79	1200
BNC22A	BNC22B	22mm	1.252	31.80	800
BNC24A	BNC24B	24mm	1.406	35.71	500

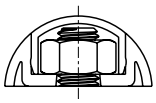
HBG Series
Ohio Nut and Bolt Caps

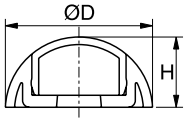
Specifications:
- Material: Elastomeric Polyethylene
- Color: Gray

Features:
- Low-Cost alternative to adjustable swivel glides
- Used in conjunction with Ohio Nut and Bolt parts, capping the head of the bolt with a non-skid, non-marking elastomeric cap

Item No.	Head Ø in	Head Thickness in	Pack Qty.
HBG1010A	0.750	0.093	5000
HBG1020A	0.875	0.125	3800
HBG1030A	1.062	0.156	2200

SCC Series
Secure Cover Caps





Specifications:
- Material: Polypropylene
- Color: See Table

Features:
- To cover bolt head or nut depending on application
- Cap design snaps securely into base
- Able to mix or match colors for the cap and the base
- Ideal for outdoor furniture or playground equipment

Item No.						Fits Bolt and Nut		Ø D	H	Pack
White		Black		Red				in	in	Qty.
Cap	Base	Cap	Base	Cap	Base	Std	Metric			
SCC003W	SCB003W	SCC003B	SCB003B	SCC003R	SCB003R	—	M6	0.984	0.472	250
SCC005W	SCB005W	SCC005B	SCB005B	SCC005R	SCB005R	5/16	M8	1.260	0.551	250
SCC010W	SCB010W	SCC010B	SCB010B	SCC010R	SCB010R	3/8	M10	1.496	0.669	100
SCC015W	SCB015W	SCC015B	SCB015B	SCC015R	SCB015R	7/16	M12	1.693	0.807	100

Item No.						Fits Bolt and Nut		Ø D	H	Pack
Blue		Green		Yellow				in	in	Qty.
Cap	Base	Cap	Base	Cap	Base	Std	Metric			
SCC003BL	SCB003BL	SCC003G	SCB003G	SCC003Y	SCB003Y	—	M6	0.984	0.472	250
SCC005BL	SCB005BL	SCC005G	SCB005G	SCC005Y	SCB005Y	5/16	M8	1.260	0.551	250
SCC010BL	SCB010BL	SCC010G	SCB010G	SCC010Y	SCB010Y	3/8	M10	1.496	0.669	100
SCC015BL	SCB015BL	SCC015G	SCB015G	SCC015Y	SCB015Y	7/16	M12	1.693	0.807	100

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DECORATIVE SCREW CAPS AND SCREWS

USC Series
Screw Caps

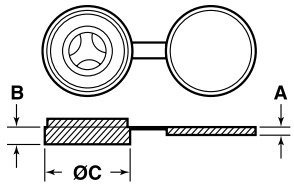


Fig. 1

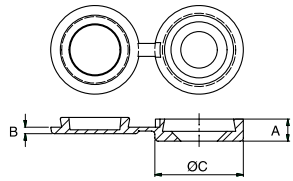


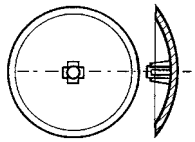
Fig. 2

Specifications:
- Material: Polypropylene
- Color: See Table

Features:
- The USC series fits a range of screw sizes, reducing the need to inventory a wide variety of caps
- Each cap will take a No. 6, 8 or 10 flat head, and an oval head or No. 6 round head screw

Item No.	Color	Fig	Fits Screw	A		B		Ø C		Pack Qty.
				in	mm	in	mm	in	mm	
USC0406A	White	1	#4 to 6	0.060	1.52	0.130	3.30	0.462	11.73	1000
USC0406B	Black	1	#4 to 6	0.060	1.52	0.130	3.30	0.462	11.73	1000
USC6810A	White	2	6 to 12 and M3.5/M6	0.039	1.0	0.134	3.4	0.535	13.6	5000
USC6810C	Black	2	6 to 12 and M3.5/M6	0.039	1.0	0.134	3.4	0.535	13.6	5000
USC464219A	White	1	1/4	0.114	2.90	0.197	5.00	0.689	17.50	5000
USC464220A	Black	1	1/4	0.114	2.90	0.197	5.00	0.689	17.50	5000
USC3800A	White	1	3/8	0.114	2.90	0.326	8.28	0.950	24.13	1000
USC3800B	Black	1	3/8	0.114	2.90	0.326	8.28	0.950	24.13	1000

CH Series
Cross Head Screw Caps

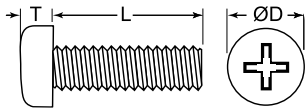


Specifications:
- Material: Low-Density Polyethylene
- Color: White

Features:
- Provides excellent concealment and protection of cross-head screws

Item No.	Total Ø		Fits Drive Size	Pack Qty.
	in	mm		
CH2A	0.570	14.5	#2	20000
CH3A	0.575	14.6	#3	20000
CH4A	0.705	17.9	#4	10000

NSP Series
Pan Phillips Head Screws



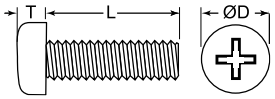
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Threaded nylon bolts and screws are the ideal fastener for mechanically securing materials
- Ideal for outdoor environments
- Lightweight compared to metal screws and bolts
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Thread	L		T		ØD		Pack Qty.
		in	mm	In	mm	in	mm	
NSP-4-2-01	#4-40	0.125	3.175	0.080	2.032	0.210	5.334	1000
NSP-4-3-01	#4-40	0.188	4.775	0.080	2.032	0.210	5.334	1000
NSP-4-4-01	#4-40	0.250	6.350	0.080	2.032	0.210	5.334	1000
NSP-4-5-01	#4-40	0.313	7.950	0.080	2.032	0.210	5.334	1000
NSP-4-6-01	#4-40	0.375	9.525	0.080	2.032	0.210	5.334	1000
NSP-4-7-01	#4-40	0.438	11.125	0.080	2.032	0.210	5.334	1000
NSP-4-8-01	#4-40	0.500	12.700	0.080	2.032	0.210	5.334	1000
NSP-4-10-01	#4-40	0.625	15.875	0.080	2.032	0.210	5.334	1000
NSP-4-12-01	#4-40	0.750	19.050	0.080	2.032	0.210	5.334	1000
NSP-4-14-01	#4-40	0.875	22.225	0.080	2.032	0.210	5.334	1000
NSP-4-16-01	#4-40	1.000	25.400	0.080	2.032	0.210	5.334	1000
NSP-6-2-01	#6-32	0.125	3.175	0.090	2.286	0.260	6.604	1000
NSP-6-3-01	#6-32	0.188	4.775	0.090	2.286	0.260	6.604	1000
NSP-6-4-01	#6-32	0.250	6.350	0.090	2.286	0.260	6.604	1000
NSP-6-5-01	#6-32	0.313	7.950	0.090	2.286	0.260	6.604	1000
NSP-6-6-01	#6-32	0.375	9.525	0.090	2.286	0.260	6.604	1000

Item No.	Thread	L		T		ØD		Pack Qty.
		in	mm	in	mm	in	mm	
NSP-6-5-01	#6-32	0.313	7.950	0.090	2.286	0.260	6.604	1000
NSP-6-6-01	#6-32	0.375	9.525	0.090	2.286	0.260	6.604	1000
NSP-6-7-01	#6-32	0.438	11.125	0.090	2.286	0.260	6.604	1000
NSP-6-8-01	#6-32	0.500	12.700	0.090	2.286	0.260	6.604	1000
NSP-6-10-01	#6-32	0.625	15.875	0.090	2.286	0.260	6.604	1000
NSP-6-12-01	#6-32	0.750	19.050	0.090	2.286	0.260	6.604	1000
NSP-6-14-01	#6-32	0.875	22.225	0.090	2.286	0.260	6.604	1000
NSP-6-16-01	#6-32	1.000	25.400	0.090	2.286	0.260	6.604	1000
NSP-8-4-01	#8-32	0.250	6.350	0.110	2.794	0.320	8.128	1000
NSP-8-6-01	#8-32	0.375	9.525	0.110	2.794	0.320	8.128	1000
NSP-8-8-01	#8-32	0.500	12.700	0.110	2.794	0.320	8.128	1000
NSP-8-10-01	#8-32	0.625	15.875	0.110	2.794	0.320	8.128	1000
NSP-8-12-01	#8-32	0.750	19.050	0.110	2.794	0.320	8.128	1000
NSP-8-14-01	#8-32	0.875	22.225	0.110	2.794	0.320	8.128	1000
NSP-8-16-01	#8-32	1.000	25.400	0.110	2.794	0.320	8.128	1000

M Series
Metric Pan Phillips Head Screws

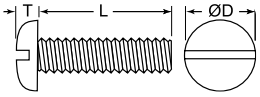


Specifications:
- Material: Nylon 6/6
- Color: Natural

Item No.	Thread	L in	L mm	T in	T mm	ØD in	ØD mm	Pack Qty.
50M030050P006	M3	0.236	6.000	0.091	2.300	0.213	5.400	1000
50M030050P008	M3	0.315	8.000	0.098	2.500	0.224	5.700	1000
50M030050P010	M3	0.394	10.000	0.091	2.300	0.213	5.400	1000
50M030050P016	M3	0.630	16.000	0.091	2.300	0.213	5.400	1000
50M030050P025	M3	0.984	25.000	0.091	2.300	0.213	5.400	1000
50M040070P006	M4	0.236	6.000	0.114	2.900	0.315	8.000	1000
50M040070P008	M4	0.315	8.000	0.110	2.800	0.291	7.400	1000
50M040070P010	M4	0.394	10.000	0.114	2.900	0.315	8.000	1000
50M040070P016	M4	0.630	16.000	0.114	2.900	0.315	8.000	1000
50M040070P025	M4	0.984	25.000	0.114	2.900	0.315	8.000	1000
50M050080P06	M5	0.236	6.000	0.138	3.500	0.366	9.300	1000
50M050080P10	M5	0.394	10.000	0.138	3.500	0.366	9.300	1000

Item No.	Thread	L in	L mm	T in	T mm	ØD in	ØD mm	Pack Qty.
50M050080P16	M5	0.630	16.000	0.138	3.500	0.366	9.300	1000
50M050080P25	M5	0.984	25.000	0.138	3.500	0.366	9.300	1000
50M060100P010	M6	0.394	10.000	0.177	4.500	0.453	11.500	1000
50M060100P016	M6	0.630	16.000	0.177	4.500	0.453	11.500	1000
50M060100P025	M6	0.984	25.000	0.177	4.500	0.453	11.500	1000
50M080125P010	M8	0.394	10.000	0.226	5.750	0.630	16.000	1000
50M080125P016	M8	0.630	16.000	0.226	5.750	0.630	16.000	1000
50M080125P025	M8	0.984	25.000	0.226	5.750	0.630	16.000	1000
50M100150N016	M10	0.630	16.000	0.285	7.250	0.787	20.000	500
50M100150P020	M10	0.787	20.000	0.285	7.250	0.787	20.000	500
50M100150P030	M10	1.181	30.000	0.285	7.250	0.787	20.000	500

P Series
Pan Slotted Head Screws



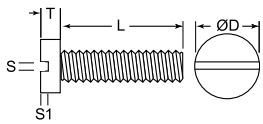
Specifications:
- Material: Nylon 6/6
- Color: Natural

Item No.	Thread	L in	L mm	T in	T mm	ØD in	ØD mm	Pack Qty.
010440P018	#4-40	0.188	4.775	0.080	2.032	0.210	5.334	1000
010440P025	#4-40	0.250	6.350	0.080	2.032	0.210	5.334	1000
010440P037	#4-40	0.375	9.525	0.080	2.032	0.210	5.334	1000
010440P043	#4-40	0.438	11.125	0.080	2.032	0.210	5.334	1000
010440P050	#4-40	0.500	12.700	0.080	2.032	0.210	5.334	1000
010440P062	#4-40	0.625	15.875	0.080	2.032	0.210	5.334	1000
010440P075	#4-40	0.750	19.050	0.080	2.032	0.210	5.334	1000
010440P100	#4-40	1.000	25.400	0.080	2.032	0.210	5.334	1000
010632P012	#6-32	0.125	3.175	0.090	2.286	0.260	6.604	1000
010632P018	#6-32	0.188	4.775	0.090	2.286	0.260	6.604	1000
010632P025	#6-32	0.250	6.350	0.090	2.286	0.260	6.604	1000
010632P031	#6-32	0.313	7.950	0.090	2.286	0.260	6.604	1000
010632P037	#6-32	0.375	9.525	0.090	2.286	0.260	6.604	1000
010632P050	#6-32	0.500	12.700	0.090	2.286	0.260	6.604	1000
010632P062	#6-32	0.625	15.875	0.090	2.286	0.260	6.604	1000
010632P075	#6-32	0.750	19.050	0.090	2.286	0.260	6.604	1000
010632P087	#6-32	0.875	22.225	0.090	2.286	0.260	6.604	1000
010632P100	#6-32	1.000	25.400	0.090	2.286	0.260	6.604	1000

Item No.	Thread	L in	L mm	T in	T mm	ØD in	ØD mm	Pack Qty.
010832P025	#8-32	0.250	6.350	0.110	2.794	0.320	8.128	1000
010832P037	#8-32	0.375	9.525	0.110	2.794	0.320	8.128	1000
010832P043	#8-32	0.438	11.125	0.110	2.794	0.320	8.128	1000
010832P050	#8-32	0.500	12.700	0.110	2.794	0.320	8.128	1000
010832P062	#8-32	0.625	15.875	0.110	2.794	0.320	8.128	1000
010832P075	#8-32	0.750	19.050	0.110	2.794	0.320	8.128	1000
010832P087	#8-32	0.875	22.225	0.110	2.794	0.320	8.128	1000
010832P100	#8-32	1.000	25.400	0.110	2.794	0.320	8.128	1000
010832P200	#8-32	2.000	50.800	0.120	3.048	0.314	7.976	1000
011032P050	#10-32	0.500	12.700	0.127	3.226	0.365	9.271	1000
011032P100	#10-32	1.000	25.400	0.127	3.226	0.365	9.271	1000
011032P200	#10-32	2.000	50.800	0.171	4.343	0.483	12.268	1000
P-S1420X1/4	1/4-20	0.250	6.350	0.171	4.343	0.483	12.268	1000
012520P050	1/4-20	0.500	12.700	0.171	4.343	0.483	12.268	1000
P-S1420X3/4	1/4-20	0.750	19.050	0.171	4.343	0.483	12.268	1000
012520P100	1/4-20	1.000	25.400	0.171	4.343	0.483	12.268	1000
P-S1420X11/2	1/4-20	1.500	38.100	0.171	4.343	0.483	12.268	1000
012520P175	1/4-20	1.750	44.450	0.171	4.343	0.483	12.268	1000
012520P200	1/4-20	2.000	50.800	0.171	4.343	0.483	12.268	1000

M Series
Metric Cheese Slotted Head Bolts

Thread	D (mm)	T (mm)	S (mm)	S1 (mm)
M2	3.8	1.3	0.7	0.9
M2.5	4.5	1.6	0.8	1.0
M3	5.5	2.0	1.0	1.3
M3.5	6.0	2.4	1.1	1.4
M4	7.0	2.6	1.2	1.6
M5	8.5	3.3	1.5	2.0
M6	10.0	3.9	1.9	2.3
M8	13.0	5.0	2.3	2.8
M10	15.63	6.0	2.8	3.2



Specifications:
- Material: Nylon 6/6
- Color: Natural

Item No.	Thread	L mm	Pack Qty.
50M020040D006	M2 x 0.4	6	1000
50M025045D006	M2.5 x 0.45	6	1000
50M025045D016	M2.5 x 0.45	16	1000
50M030050D006	M3 x 0.5	6	1000
50M030050D008	M3 x 0.5	8	1000
50M030050D010	M3 x 0.5	10	1000
50M030050D012	M3 x 0.5	12	1000
50M030050D016	M3 x 0.5	16	1000
50M030050D020	M3 x 0.5	20	1000
50M035060D010	M3.5 x 0.6	10	1000
50M040070D006	M4 x 0.7	6	1000
50M040070D008	M4 x 0.7	8	1000
50M040070D010	M4 x 0.7	10	1000
50M040070D012	M4 x 0.7	12	1000

Item No.	Thread	L mm	Pack Qty.
50M040070D016	M4 x 0.7	16	1000
50M040070D020	M4 x 0.7	20	1000
50M040070D030	M4 x 0.7	30	1000
50M050080D010	M5 x 0.8	10	1000
50M050080D016	M5 x 0.8	16	1000
50M050080D025	M5 x 0.8	25	1000
50M060100D012	M6 x 1.0	12	1000
50M060100D016	M6 x 1.0	16	1000
50M060100D030	M6 x 1.0	30	1000
50M080125D010	M8 x 1.25	10	1000
50M080125D025	M8 x 1.25	25	1000
50M100150D025	M10 x 1.5	25	1000
50M100150D030	M10 x 1.5	30	1000

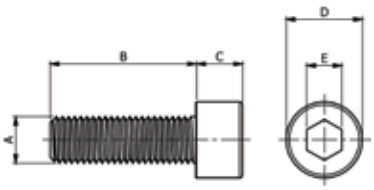
SOCKET HEAD SCREWS, WASHERS, NUTS

183 Series
PEEK® Socket Head Screw

New

Specifications:
- Material: UL94 V-0 PEEK®
- Color: Light Brown

Features:
- Heat Resistant up to 350°F
- Excellent mechanical and chemical resistance properties
- High abrasion resistance
- Resistant to water

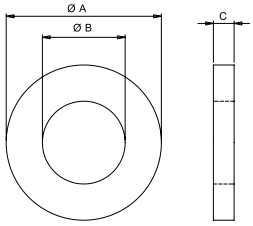


Item No.	A Thread	B mm	C mm	Ø D mm	E mm	Pack Qty.
183 030 870 409	M3	8.0	3.0	5.5	2.5	25
183 031 070 409	M3	10.0	3.0	5.5	2.5	25
183 031 270 409	M3	12.0	3.0	5.5	2.5	25
183 031 570 409	M3	15.0	3.0	5.5	2.5	25
183 032 070 409	M3	20.0	3.0	5.5	2.5	10
183 032 570 409	M3	25.0	3.0	5.5	2.5	10
183 040 870 409	M4	8.0	4.0	7.0	3.0	10
183 041 070 409	M4	10.0	4.0	7.0	3.0	10
183 041 270 409	M4	12.0	4.0	7.0	3.0	10
183 041 570 409	M4	15.0	4.0	7.0	3.0	10
183 042 070 409	M4	20.0	4.0	7.0	3.0	10
183 042 570 409	M4	25.0	4.0	7.0	3.0	10
183 043 070 409	M4	30.0	4.0	7.0	3.0	10
183 050 870 409	M5	8.0	5.0	8.5	4.0	10
183 051 070 409	M5	10.0	5.0	8.5	4.0	10
183 051 270 409	M5	12.0	5.0	8.5	4.0	10
183 051 570 409	M5	15.0	5.0	8.5	4.0	10
183 052 070 409	M5	20.0	5.0	8.5	4.0	10
183 052 570 409	M5	25.0	5.0	8.5	4.0	10
183 053 070 409	M5	30.0	5.0	8.5	4.0	10
183 061 070 409	M6	10.0	6.0	10.0	5.0	10
183 061 270 409	M6	12.0	6.0	10.0	5.0	10
183 061 570 409	M6	15.0	6.0	10.0	5.0	10
183 062 070 409	M6	20.0	6.0	10.0	5.0	10
183 062 570 409	M6	25.0	6.0	10.0	5.0	10
183 063 070 409	M6	30.0	6.0	10.0	5.0	10
183 063 570 409	M6	35.0	6.0	10.0	5.0	10
183 081 070 409	M8	10.0	8.0	13.0	6.0	1
183 081 270 409	M8	12.0	8.0	13.0	6.0	1
183 081 570 409	M8	15.0	8.0	13.0	6.0	1
183 082 070 409	M8	20.0	8.0	13.0	6.0	1
183 082 570 409	M8	25.0	8.0	13.0	6.0	1
183 083 070 409	M8	30.0	8.0	13.0	6.0	1
183 083 570 409	M8	35.0	8.0	13.0	6.0	1

185 Series
PEEK® Flat Washers

Specifications:
- Material: UL94 V-0 PEEK®
- Color: Light Brown

Features:
- Heat Resistant up to 350°F

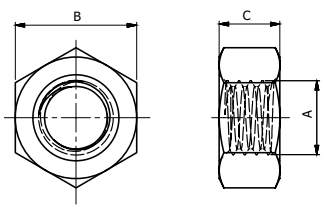


Item No.	Ø B in	Ø B mm	Ø A in	Ø A mm	C in	C mm	Fits Screw Standard	Fits Screw Metric	Pack Qty.
185020070409	0.106	2.7	0.236	6.0	0.020	0.5	#3	M2.5	250
185030070409	0.126	3.2	0.276	7.0	0.020	0.5	#5	M3	250
185040070409	0.169	4.3	0.354	9.0	0.031	0.8	#8	M4	250
185050070409	0.209	5.3	0.394	10.0	0.039	1.0	#10	M5	250
185060070409	0.252	6.4	0.492	12.5	0.063	1.6	1/4	M6	250
185080070409	0.331	8.4	0.669	17.5	0.063	1.6	5/16	M8	100
185100070409	0.413	10.5	0.827	21.0	0.079	2.0	3/8	M10	100

184 Series
PEEK® Hex Nuts

New

Specifications:
- Material: UL94 V-0 PEEK®
- Color: Light Brown

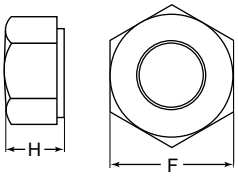


Item No.	A Thread	Pitch	B mm	C mm	Pack Qty.
184020070409	M2.6	0.45	5.0	2.0	25
184030070409	M3	0.50	5.5	2.4	25
184040070409	M4	0.70	7.0	3.2	25
184050070409	M5	0.80	8.0	4.0	25
184060070409	M6	1.00	10.0	5.0	25
184080070409	M8	1.25	13.0	6.5	25
184100070409	M10	1.50	17.0	8.0	25

HN Series
Standard Hex Nuts

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Ideal for outdoor environments
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals

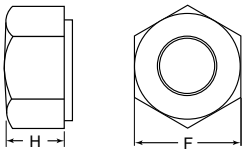


Item No.	Thread	F		H		Pack Qty.
		in	mm	in	mm	
0400256HN	#2-56	0.180	4.572	0.070	1.778	1000
0400440HN	#4-40	0.245	6.223	0.093	2.362	1000
0400632HN	#6-32	0.305	7.747	0.110	2.794	1000
0400832HN	#8-32	0.338	8.585	0.125	3.175	1000
0401024HN	#10-24	0.375	9.525	0.146	3.708	1000
0401032HN	#10-32	0.375	9.525	0.146	3.708	1000
0425020HN	1/4-20	0.425	10.78	0.235	5.97	1000
0425028HN	1/4-28	0.438	11.125	0.207	5.258	1000
0431218HN	5/16-18	0.500	12.700	0.270	6.858	1000
0431224HN	5/16-24	0.500	12.700	0.302	7.671	1000
0437516HN	3/8-16	0.563	14.300	0.330	8.382	1000
0443714HN	7/16-14	0.750	19.050	0.380	9.652	500
0450013HN	1/2-13	0.750	19.050	0.443	11.252	500
0462511HN	5/8-11	1.000	25.400	0.546	13.868	500
0475010HN	3/4-10	1.125	28.575	0.635	16.129	500

HN Series
Standard Metric Hex Nuts

Specifications:
- Material: Nylon 6/6
- Color: Natural

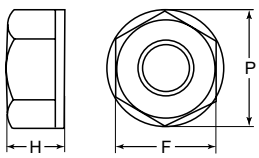
Features:
- Ideal for outdoor environments
- Lightweight compared to metal nuts
- Resistant to corrosion, oil, abrasion and most chemicals



Item No.	Thread	F		H		Pack Qty.
		in	mm	in	mm	
04M020040HN	M2	0.154	3.900	0.047	1.200	1000
04M025045HN	M2.5	0.193	4.900	0.071	1.800	1000
04M030050HN	M3	0.213	5.400	0.087	2.200	1000
04M035060HN	M3.5	0.272	6.900	0.106	2.700	1000
04M040070HN	M4	0.272	6.900	0.118	3.000	1000
04M050080HN	M5	0.311	7.900	0.169	4.300	1000
04M060100HN	M6	0.394	10.000	0.213	5.400	1000
04M080125HN	M8	0.508	12.900	0.252	6.400	1000
04M100150HN	M10	0.583	14.800	0.386	9.800	1000
04M120175HN	M12	0.698	17.740	0.415	10.540	1000

LN Series
Locking Hex Nuts

Specifications:
- Material: Nylon 6/6
- Color: Natural

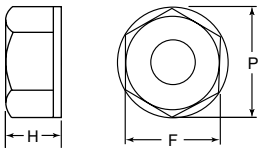


Item No.	Thread	F	P	H	Pack Qty.
		in	in	in	
0701024LN	8-32	0.335	0.380	0.125	1000
070832LN	10-24	0.365	0.420	0.125	1000

SLN Series
Self-Threading Lock Nuts

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Designed for use with steel bolts
- Self-threading to ensure a snug fit
- Ideal for applications seeing vibration or movement
- Resistant to corrosion, oil, abrasion and most chemicals



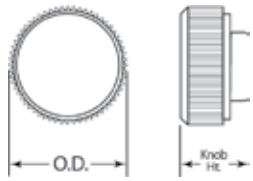
Item No.	For Use With Screw size	F	P	H	Pack Qty.
		In	In	In	
0700256SLN	2-56	0.180	0.205	0.140	1000
0700440SLN	4-40	0.250	0.285	0.200	1000
0700632SLN	6-32	0.305	0.350	0.200	1000
0700832SLN	8-32	0.335	0.385	0.230	1000
0701024SLN	10-24	0.365	0.425	0.250	1000
0701032SLN	10-32	0.365	0.425	0.250	1000
0725020SLN	1/4-20	0.425	0.510	0.275	1000

THUMB SCREW KNOBS

Round Screw

Specifications:
- Material: Acetal
- Color: See Table

Features:
- Can be used as a thumb screw or a knob
- Caps available for use with any length screw

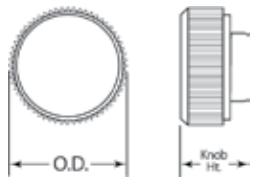


Screw size	OD (in)	Knob Height (in)
#4	0.312	0.172
#6	0.375	0.203
#8	0.250	0.219
#10	0.656	0.250
1/4	1.000	0.328
5/16	1.000	0.391

Item No.	For Screw	Color	Pack Qty.
29R004B	4	Black	100
29R006B	6	Black	100
29R008B	8	Black	100
29R010B	10	Black	100
29R141B	1/4	Black	100
29R516B	5/16	Black	100
29R004BL	4	Blue	100
29R006BL	6	Blue	100
29R008BL	8	Blue	100

Item No.	For Screw	Color	Pack Qty.
29R010BL	10	Blue	100
29R141BL	1/4	Blue	100
29R516BL	5/16	Blue	100
29R004RD	4	Red	100
29R006RD	6	Red	100
29R008RD	8	Red	100
29R010RD	10	Red	100
29R141RD	1/4	Red	100
29R516RD	5/16	Red	100

Round Screw Metric

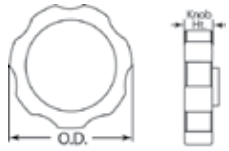


Screw size	OD (mm)	Knob Height (mm)
M4	12.700	5.560
M5	16.600	6.350
M6	25.400	8.330

Item No.	For Screw	Color	Pack Qty.
29M400RB	M4	Black	100
29M500RB	M5	Black	100
29M600RB	M6	Black	100
29M400RBL	M4	Blue	100
29M500RBL	M5	Blue	100

Item No.	For Screw	Color	Pack Qty.
29M600RBL	M6	Blue	100
29M400RRD	M4	Red	100
29M500RRD	M5	Red	100
29M600RRD	M6	Red	100

Flowerette Screw

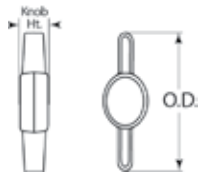


Screw size	OD (in)	Knob Height (in)
1/4	1.500	0.375
5/16	1.500	0.375
3/8	1.500	0.375

Item No.	For Screw	Color	Pack Qty.
29F014B	1/4	Black	100
29F516B	5/16	Black	100
29F038B	3/8	Black	100
29F014BL	1/4	Blue	100
29F516BL	5/16	Blue	100

Item No.	For Screw	Color	Pack Qty.
29F038BL	3/8	Blue	100
29F014RD	1/4	Red	100
29F516RD	5/16	Red	100
29F038RD	3/8	Red	100

Wing Screw

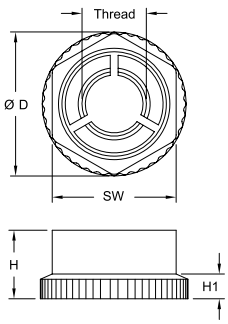


Screw size	OD (in)	Knob Height (in)
#10	1.000	0.250
1/4	1.266	0.344
5/16	1.500	0.406
3/8	1.781	0.484

Item No.	For Screw	Color	Pack Qty.
29W010B	10	Black	100
29W014B	1/4	Black	100
29W516B	5/16	Black	100
29W038B	3/8	Black	100
29W010BL	10	Blue	100
29W014BL	1/4	Blue	100

Item No.	For Screw	Color	Pack Qty.
29W516BL	5/16	Blue	100
29W038BL	3/8	Blue	100
29W010RD	10	Red	100
29W014RD	1/4	Red	100
29W516RD	5/16	Red	100
29W038RD	3/8	Red	100

KNF Series
Metric Quick Nut

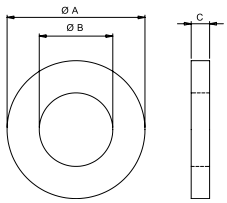


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- To install, push down the length of the threaded fastener to desired location and lock with a 180° turn
- Reduces assembly time
- Corrosion resistant
- Lightweight
- To remove, unscrew with a wrench

Item No.	Thread	SW mm	ØD mm	H mm	H1 mm	Pack Qty.
KNF-40	M4	8	9.4	4.7	1.8	1000

173 Series
Polycarbonate Flat Washer

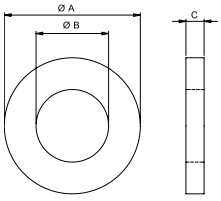


Specifications:
- Material: Polycarbonate
- Color: Clear

Features:
- High transparency

Item No.	Ø B in	Ø B mm	Ø A in	Ø A mm	C in	C mm	Fits Screw Standard	Fits Screw Metric	Pack Qty.
173000200022	0.083	2.1	0.157	4.0	0.020	0.5	#2	M2	100
173002600022	0.106	2.7	0.236	6.0	0.020	0.5	#3	M2.5	100
173000300022	0.160	3.3	0.315	8.0	0.031	0.8	#5	M3	100
173000400022	0.177	4.5	0.394	10.0	0.031	0.8	#8	M4	100
173000500022	0.217	5.5	0.472	12.0	0.039	1.0	#12	M5	100
173000600022	0.256	6.5	0.512	13.0	0.063	1.6	1/4	M6	100
173000800022	0.335	8.5	0.709	18.0	0.063	1.6	1/4	M8	100

PVC Flat Washer

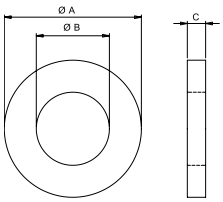


Specifications:
- Material: PVC
- Color: Black

Features:
- No water absorption

Item No.	Ø B in	Ø B mm	Ø A in	Ø A mm	C in	C mm	Fits Screw Standard	Fits Screw Metric	Pack Qty.
032030011407	0.126	3.2	0.354	9.0	0.059	1.5	#5	M3	1000
032040011407	0.169	4.3	0.472	12.0	0.055	1.4	#8	M4	1000
032050011407	0.209	5.3	0.591	15.0	0.059	1.5	#10	M5	500
032060011407	0.252	6.4	0.709	18.2	0.079	2.0	1/4	M6	500
032080011407	0.331	8.4	0.984	25.0	0.098	2.5	5/16	M8	500
032100011407	0.413	10.5	1.181	30.0	0.118	3.0	3/8	M10	250
032120011407	0.512	13.0	1.575	40.0	0.118	3.0	1/2	M13	100
033030011407	0.126	3.2	0.591	15.0	0.059	1.5	#5	M3	500
033040011407	0.169	4.3	0.709	18.0	0.079	2.0	#8	M4	500
033050011407	0.209	5.3	0.984	25.0	0.098	2.5	#10	M5	500
033060011407	0.252	6.4	1.181	30.0	0.118	3.0	1/4	M6	100
033080011407	0.331	8.4	1.575	40.0	0.118	3.0	5/16	M8	100

585 Series
Polypropylene Flat Washer



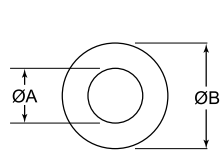
Specifications:
- Material: Polypropylene
- Color: Natural

Features:
- Chemical Resistance

Item No.	Ø B ID in	Ø B ID mm	Ø A OD in	Ø A OD mm	C in	C mm	Fits Screw Standard	Fits Screw Metric	Pack Qty.
585010000011	0.169	4.3	0.354	9.0	0.031	0.8	#8	M4	100
585020000011	0.209	5.3	0.394	10.0	0.039	1.0	#10	M5	100
585030000011	0.252	6.4	0.472	12.0	0.063	1.6	1/4	M6	100
585040000011	0.331	8.4	0.630	16.0	0.063	1.6	5/16	M8	100
585060000011	0.413	10.5	0.787	20.0	0.079	2.0	3/8	M10	100
585050000011	0.512	13.0	0.945	24.0	0.098	2.5	1/2	M12	100

PLASTIC FLAT WASHERS

FW Series
Flat Washers



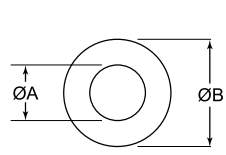
Specifications:
- Material: Nylon
- Color: See Table

Features:
- Resistant to corrosion and many chemicals

Item No.		ØA	ØB	C		Pack
Natural	Black	mm	mm	mm	Fits	Qty.
17W01011	17W01011B	0.032	0.125	0.060	—	1000
16FW002032	16FW002032B	0.090	0.250	0.032	#2	1000
16FW002062	16FW002062B	0.090	0.250	0.062	#2	1000
16FW002093	16FW002093B	0.090	0.250	0.093	#2	1000
16FW002125	16FW002125B	0.090	0.250	0.125	#2	1000
17W01815	17W01815B	0.094	0.188	0.020	—	1000
17W02190	17W02190B	0.104	0.220	0.031	—	1000
16FW004032	16FW004032B	0.115	0.250	0.032	#4	1000
16FW004062	16FW004062B	0.115	0.250	0.062	#4	1000
16FW004093	16FW004093B	0.115	0.250	0.093	#4	1000
16FW004125	16FW004125B	0.115	0.250	0.125	#4	1000
17W02181	17W02181B	0.120	0.218	0.037	—	1000
17W02811	17W02811B	0.120	0.288	0.040	—	1000
17W02350	17W02350B	0.125	0.235	0.040	—	1000
17W03758	17W03758B	0.125	0.375	0.040	—	1000
17W03123	17W03123B	0.130	0.318	0.062	—	1000
17W03505	17W03505B	0.130	0.355	0.062	—	1000
16FW006032	16FW006032B	0.140	0.312	0.032	#6	1000
16FW006062	16FW006062B	0.140	0.312	0.062	#6	1000
16FW006093	16FW006093B	0.140	0.312	0.093	#6	1000
16FW006125	16FW006125B	0.140	0.312	0.125	#6	1000
17W02504	17W02504B	0.141	0.250	0.062	—	1000
17W03757	17W03757B	0.141	0.375	0.031	—	1000
17W03128	17W03128B	0.156	0.320	0.031	—	1000
16FW008032	16FW008032B	0.171	0.375	0.032	#8	1000
16FW008062	16FW008062B	0.171	0.375	0.062	#8	1000
16FW008093	16FW008093B	0.171	0.375	0.093	#8	1000
16FW008125	16FW008125B	0.171	0.375	0.125	#8	1000
17W03121	17W03121B	0.187	0.312	0.050	—	1000
17W05008	17W05008B	0.188	0.505	0.032	—	1000
17W03764	17W03764B	0.189	0.375	0.031	—	1000
16FW010032	16FW010032B	0.194	0.375	0.032	#10	1000
16FW010062	16FW010062B	0.194	0.375	0.062	#10	1000
16FW010093	16FW010093B	0.194	0.375	0.093	#10	1000
16FW010125	16FW010125B	0.194	0.375	0.125	#10	1000
17W06252	17W06252B	0.194	0.625	0.125	—	1000
17W04376	17W04376B	0.195	0.437	0.020	—	1000
17W04373	17W04373B	0.195	0.437	0.031	—	1000
17W04371	17W04371B	0.200	0.437	0.062	—	1000
17W05016	17W05016B	0.219	0.500	0.156	—	1000
17W03768	17W03768B	0.250	0.375	0.150	—	1000
17W06255	17W06255B	0.250	0.625	0.062	—	1000
17W06221	17W06221B	0.252	0.622	0.060	—	1000
16FW250032	16FW250032B	0.257	0.500	0.032	1/4	1000
16FW250062	16FW250062B	0.257	0.500	0.062	1/4	1000

Item No.		ØA	ØB	C		Pack
Natural	Black	mm	mm	mm	Fits	Qty.
16FW250093	16FW250093B	0.257	0.500	0.093	1/4	1000
16FW250125	16FW250125B	0.257	0.500	0.125	1/4	1000
17W06262	17W06262B	0.257	0.625	0.020	—	1000
17W07530	17W07530B	0.257	0.750	0.062	—	1000
17W08762	17W08762B	0.257	0.875	0.062	—	1000
17W05622	17W05622B	0.260	0.562	0.062	—	1000
17W06866	17W06866B	0.260	0.687	0.125	—	1000
17W05003	17W05003B	0.281	0.490	0.030	—	1000
17W07192	17W07192B	0.281	0.719	0.062	—	1000
17W06264	17W06264B	0.315	0.625	0.031	—	1000
17W08801	17W08801B	0.315	0.872	0.062	—	1000
16FW312032	16FW312032B	0.317	0.500	0.032	5/16	1000
16FW312062	16FW312062B	0.317	0.500	0.062	5/16	1000
16FW312093	16FW312093B	0.317	0.500	0.093	5/16	1000
16FW312125	16FW312125B	0.317	0.500	0.125	5/16	1000
17W07513	17W07513B	0.317	0.750	0.062	—	1000
17W06266	17W06266B	0.321	0.625	0.125	—	1000
17W07503	17W07503B	0.323	0.750	0.125	—	1000
17W07401	17W07401B	0.340	0.740	0.062	—	1000
17W08754	17W08754B	0.343	0.885	0.062	—	1000
17W04721	17W04721B	0.375	0.505	0.050	—	1000
16FW375032	16FW375032B	0.375	0.625	0.032	3/8	1000
17W07402	17W07402B	0.375	0.750	0.062	—	1000
17W08759	17W08759B	0.377	0.875	0.062	—	1000
17W06881	17W06881B	0.390	0.688	0.031	—	1000
16FW375062	16FW375062B	0.380	0.625	0.062	3/8	1000
16FW375093	16FW375093B	0.380	0.625	0.093	3/8	1000
16FW375125	16FW375125B	0.380	0.625	0.125	3/8	1000
17W07506	17W07506B	0.390	0.750	0.062	—	1000
17W07517	17W07517B	0.406	0.750	0.032	—	1000
17W07525	17W07525B	0.406	0.750	0.200	—	1000
17W10002	17W10002B	0.406	1.000	0.062	—	500
16FW437032	16FW437032B	0.443	0.750	0.032	7/16	1000
16FW437062	16FW437062B	0.443	0.750	0.062	7/16	1000
16FW437093	16FW437093B	0.443	0.750	0.093	7/16	1000
16FW437125	16FW437125B	0.443	0.750	0.125	7/16	1000
17W15002	17W15002B	0.500	1.500	0.125	—	500
16FW500032	16FW500032B	0.505	0.750	0.032	1/2	1000
16FW500062	16FW500062B	0.505	0.750	0.062	1/2	1000
16FW500093	16FW500093B	0.505	0.750	0.093	1/2	1000
16FW500125	16FW500125B	0.505	0.750	0.125	1/2	1000
17W12504	17W12504B	0.516	1.250	0.062	—	500
17W07120	17W07120B	0.522	0.712	0.062	—	1000
17W11251	17W11251B	0.540	1.120	0.125	—	500
17W12503	17W12503B	0.765	1.250	0.080	—	500

MFW Series
DIN125 Flat Washers



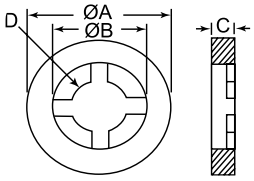
Specifications:
- Material: Nylon
- Color: See Table

Features:
- Resistant to corrosion and many chemicals
- DIN125

Item No.		ØA	ØB	C	Fits	Pack Qty.	
Natural	Black	mm	mm	mm	Screw	Natural	Black
MFW010A	—	2.20	5.00	0.30	M2	1000	—
MFW020A	—	2.70	6.00	0.50	M2.5	1000	—
MFW030A	MFW030B	3.20	7.00	0.50	M3	1000	1000
MFW040A	—	3.70	8.00	0.50	M3.5	1000	—
MFW050A	MFW050B	4.30	9.00	0.80	M4	1000	1000
17M05DIN34815	MFW060B	5.30	10.00	1.00	M5	1000	1000
MFW070A	MFW070B	6.40	12.00	1.60	M6	1000	100
MFW080A	MFW080B	8.40	16.00	1.60	M8	1000	100
MFW090A	MFW090B	10.50	20.00	2.00	M10	1000	100
MFW100A	MFW100B	13.00	24.00	2.50	M12	500	100

Item No.		ØA	ØB	C	Fits	Pack
Natural	Black	mm	mm	mm	Screw	Qty.
MFW110A	—	15.00	30.00	3.00	M14	1000
MFW120A	—	17.00	30.00	3.00	M16	250
MFW130A	—	19.00	34.00	3.00	M18	250
MFW140A	—	21.00	37.00	3.00	M20	250
MFW150A	—	25.00	44.00	4.00	M22	250
MFW160A	—	28.00	50.00	4.00	M24	250
MFW170A	—	31.00	56.00	4.00	M27	250
MFW180A	—	37.00	66.00	5.00	M30	250
MFW190A	—	40.00	72.00	6.00	M36	250

WRT Series
Retaining Washers

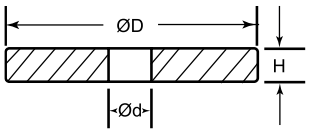


Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- I.D. designed to grip outside of screw shank
- Easily slides on to the screw but is retained by the screw once assembled
- Used in applications requiring pre-assembly of the screw and washer
- Reduces assembly time and cost

Item No.	Screw Size	Ø A		Ø B		C		D		Pack Qty.
		in	mm	in	mm	in	mm	in	mm	
16FWRT002032	#2	0.203	5.16	0.115	2.92	0.032	0.81	0.078	1.98	1000
16FWRT002062	#2	0.203	5.16	0.115	2.92	0.062	1.57	0.078	1.98	1000
16FWRT004032	#4	0.265	6.73	0.156	3.96	0.032	0.81	0.102	2.59	1000
16FWRT004050	#4	0.250	6.35	0.156	3.96	0.050	1.27	0.102	2.59	1000
16FWRT004062	#4	0.265	6.73	0.156	3.96	0.062	1.57	0.102	2.59	1000
16FWRT004125	#4	0.265	6.73	0.156	3.96	0.125	3.18	0.102	2.59	1000
16FWRT006032	#6	0.328	8.33	0.198	5.03	0.032	0.81	0.128	3.25	1000
16FWRT006032	#6	0.328	8.33	0.198	5.03	0.062	1.57	0.128	3.25	1000
16FWRT007062	#7	0.750	19.05	0.375	9.53	0.062	1.57	0.215	5.46	1000
16FWRT008032	#8	0.390	9.91	0.235	5.97	0.032	0.81	0.152	3.86	1000
16FWRT008045	#8	0.453	11.51	0.218	5.54	0.045	1.14	0.135	3.43	1000
16FWRT008062	#8	0.390	9.91	0.235	5.97	0.062	1.57	0.152	3.86	1000
16FWRT010032	#10	0.453	11.51	0.277	7.04	0.032	0.81	0.177	4.50	1000
16FWRT010062	#10	0.453	11.51	0.277	7.04	0.062	1.57	0.177	4.50	1000
16FWRT250032	1/4	0.593	15.06	0.375	9.53	0.032	0.81	0.234	5.94	1000
16FWRT250062	1/4	0.593	15.06	0.375	9.53	0.062	1.57	0.234	5.94	1000
16FWRT312032	5/16	0.734	18.64	0.470	11.94	0.032	0.81	0.292	7.42	1000
16FWRT312062	5/16	0.734	18.64	0.470	11.94	0.062	1.57	0.292	7.42	1000
16FWRT375032	3/8	0.890	22.61	0.564	14.33	0.032	0.81	0.350	8.89	1000
16FWRT375062	3/8	0.890	22.61	0.564	14.33	0.062	1.57	0.350	8.89	1000
16FWRT437032	7/16	1.031	26.19	0.570	14.48	0.032	0.81	0.410	10.41	500
16FWRT437062	7/16	1.031	26.19	0.570	14.48	0.062	1.57	0.410	10.41	500
16FWRT500032	1/2	1.125	28.58	0.690	17.53	0.032	0.81	0.468	11.89	500
16FWRT500062	1/2	1.125	28.58	0.690	17.53	0.062	1.57	0.468	11.89	500
16FWRT875062	7/8	1.343	34.11	0.940	23.88	0.062	1.57	0.825	20.96	500

RWM Series
Metric Retaining Washers

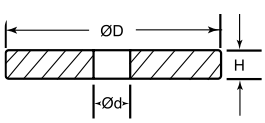


Specifications:
- Material: Nylon
- Color: Natural

Features:
- Designed to grip outside of screw shank
- Easily slides on to the screw but is retained by the screw once assembled
- Ideal for applications requiring pre-assembly of the screw and washer
- Reduces assembly time and cost
- Ideal for outdoor environments
- Resistant to corrosion, oil, abrasion and most chemicals

Item No.	Screw Size	Ø D	Ø d	H	Pack Qty.
		mm	mm	mm	
RWM050A	M2	5.0	2.7	1.5	1000
RWM100A	M3	9.0	3.2	1.5	1000
RWM150A	M3	5.5	3.2	2.2	1000
RWM200A	M4	7.0	4.3	2.3	1000
RWM250A	M4	12.0	4.3	1.4	1000
RWM300A	M5	11.5	5.3	1.4	1000
RWM350A	M5	8.5	5.3	2.8	1000
RWM400A	M6	18.0	6.4	2.0	1000
RWM450A	M6	10.0	6.4	2.8	500
RWM500A	M8	13.0	8.4	2.8	500
RWM550A	M10	21.0	10.5	2.5	500

015 Series
Retaining Polyethylene Flat Washer



Specifications:
- Material: Polyethylene
- Color: See Table

Features:
- Designed to grip outside of screw shank
- Easily slides on to the screw but is retained by the screw once assembled
- Ideal when pre-assembly of the screw and washer is required
- Reduces assembly time and cost

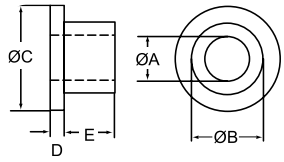
Item No			Screw Size		Ø D		Ø d		H		Pack Qty.
Red	Grey	Blue	Imperial	Metric	in	mm	in	mm	in	mm	
015002500503	**015102500203**	**015202508703**	#3	M2.5	0.256	6.5	0.106	2.7	0.043	1.1	1000
015003000503	**015103000203**	**015203008703**	#5	M3	0.276	7.0	0.126	3.2	0.055	1.4	1000
015004000503	**015104000203**	**015204008703**	#8	M4	0.354	9.0	0.169	4.3	0.043	1.1	1000
015005000503	**015105000203**	**015205008703**	#10	M5	0.433	11.0	0.209	5.3	0.051	1.3	1000
015006000503	**015106000203**	**015206008703**	1/4	M6	0.472	12.0	0.252	6.4	0.063	1.6	500
015008000503	**015108000203**	**015208008703**	5/16	M7	0.669	17.0	0.331	8.4	0.079	2.0	500
015102500203	—	**015210008703**	3/8	M10	0.709	18.0	0.413	10.5	0.059	1.5	500
015210008703	—	—	3/8	M10	0.709	18.0	0.413	10.5	0.059	1.5	500

SHOULDER WASHERS

SW Series
Shoulder Washers

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Used for insulation and mechanical applications
- Reduces vibration
- Strong and corrosion resistant

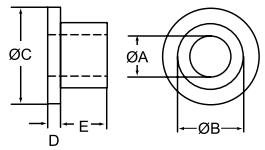


Item No.	Fits Screw	ØA in	ØB in	ØC in	D in	E in	Pack Qty.
12SWS0195	#2	0.093	0.120	0.195	0.031	0.062	1000
12SWS0203	#2	0.093	0.125	0.208	0.031	0.109	1000
12SWS0204	#2	0.093	0.125	0.205	0.031	0.187	1000
12SWS0414	#2	0.093	0.158	0.281	0.093	0.125	1000
12SWS0301	#2	0.098	0.140	0.250	0.030	0.065	1000
12SWS0213	#2	0.109	0.138	0.200	0.032	0.046	1000
12SWS0207	#2	0.110	0.135	0.242	0.046	0.156	1000
12SWS0432	#4	0.113	0.143	0.250	0.046	0.046	1000
12SWS0402	#4	0.114	0.138	0.240	0.062	0.046	1000
12SWS0475	#4	0.114	0.150	0.312	0.045	0.100	1000
12SWS0197	#4	0.115	0.135	0.216	0.046	0.031	1000
12SWS0211	#4	0.115	0.135	0.218	0.046	0.031	1000
12SWS0214	#4	0.115	0.137	0.240	0.046	0.031	1000
12SWS0436	#4	0.115	0.139	0.240	0.046	0.031	1000
12SWS0198	#4	0.115	0.140	0.200	0.031	0.031	1000
12SWS0218	#4	0.115	0.140	0.242	0.046	0.125	1000
12SWS0233	#4	0.115	0.140	0.203	0.046	0.031	1000
12SWS0428	#4	0.115	0.140	0.242	0.046	0.109	1000
12SWS0400	#4	0.115	0.141	0.235	0.046	0.093	1000
12SWS0411	#4	0.115	0.143	0.250	0.031	0.062	1000
12SWS0221	#4	0.115	0.145	0.235	0.046	0.093	1000
12SWS0401	#4	0.115	0.145	0.235	0.046	0.250	1000
12SWS0433	#4	0.115	0.145	0.250	0.046	0.109	1000
12SWS0404	#4	0.115	0.149	0.312	0.062	0.093	1000
12SWS0200	#4	0.116	0.135	0.200	0.078	0.031	1000
12SWS0234	#4	0.116	0.139	0.239	0.020	0.050	1000
12SWS0235	#4	0.116	0.143	0.210	0.042	0.033	1000
12SWS0305	#4	0.118	0.135	0.250	0.050	0.120	1000
12SWS0229	#4	0.118	0.139	0.250	0.046	0.125	1000
12SWS0226	#4	0.118	0.143	0.250	0.031	0.062	1000
12SWS0249	#4	0.118	0.157	0.244	0.040	0.177	1000
12SWS0232	#4	0.120	0.136	0.253	0.046	0.078	1000
12SWS0439	#4	0.120	0.138	0.250	0.046	0.062	1000
12SWS0300	#4	0.120	0.150	0.250	0.050	0.090	1000
12SWS0206	#4	0.120	0.154	0.224	0.031	0.062	1000
12SWS0457	#4	0.120	0.187	0.250	0.031	0.031	1000
12SWS0210	#4	0.122	0.142	0.230	0.015	0.046	1000
12SWS0310	#4	0.125	0.156	0.250	0.047	0.250	1000
12SWS0311	#4	0.125	0.158	0.260	0.032	0.437	1000
12SWS0635	#4	0.125	0.190	0.375	0.040	0.070	1000
12SWS0248	#4	0.125	0.205	0.290	0.060	0.090	1000
12SWS0875	#4	0.125	0.253	0.375	0.050	0.300	1000
12SWS2572	#4	0.125	0.375	0.750	0.062	0.500	1000
12SWS0448	#4	0.128	0.187	0.312	0.046	0.093	1000
12SWS0855	#6	0.138	0.240	0.375	0.062	0.109	1000
12SWS0290	#6	0.140	0.170	0.290	0.046	0.031	1000
12SWS0434	#6	0.140	0.170	0.312	0.046	0.062	1000
12SWS0601	#6	0.140	0.170	0.290	0.046	0.250	1000
12SWS0223	#6	0.140	0.187	0.250	0.062	0.031	1000
12SWS0817	#6	0.140	0.218	0.375	0.062	0.046	1000
12SWS0880	#6	0.140	0.275	0.400	0.125	0.125	1000
12SWS0886	#6	0.140	0.312	0.500	0.062	0.138	1000
12SWS0438	#6	0.141	0.187	0.312	0.062	0.031	1000
12SWS0867	#6	0.141	0.214	0.375	0.040	0.046	1000
12SWS0230	#6	0.142	0.205	0.265	0.031	0.156	1000
12SWS0468	#6	0.142	0.210	0.312	0.060	0.250	1000
12SWS0465	#6	0.144	0.189	0.312	0.030	0.060	1000
12SWS0848	#6	0.145	0.240	0.385	0.062	0.031	1000
12SWS0825	#6	0.145	0.245	0.375	0.030	0.060	1000
12SWS1015	#6	0.145	0.275	0.500	0.093	0.046	1000
12SWS0479	#6	0.147	0.172	0.312	0.062	0.187	1000
12SWS0240	#6	0.150	0.190	0.230	0.025	0.100	1000
12SWS2564	#6	0.150	0.250	0.750	0.062	0.250	1000
12SWS0835	#6	0.155	0.245	0.377	0.050	0.050	1000
12SWS0430	#6	0.156	0.250	0.315	0.062	0.187	1000
12SWS1016	#6	0.167	0.250	0.500	0.125	0.437	1000
12SWS0802	#8	0.171	0.195	0.375	0.031	0.062	1000
12SWS0629	#8	0.171	0.209	0.345	0.062	0.047	1000
12SWS0803	#8	0.171	0.250	0.510	0.062	0.406	1000
12SWS0810	#8	0.171	0.250	0.375	0.062	0.031	1000
12SWS0827	#8	0.171	0.250	0.375	0.040	0.046	1000
12SWS0831	#8	0.171	0.250	0.375	0.040	0.250	1000
12SWS0877	#8	0.171	0.281	0.390	0.055	0.312	1000
12SWS2573	#8	0.172	0.375	0.750	0.093	0.125	1000
12SWS0628	#8	0.173	0.205	0.345	0.062	0.375	1000
12SWS0836	#8	0.174	0.250	0.375	0.063	0.030	1000
12SWS0636	#8	0.175	0.235	0.344	0.063	0.120	1000
12SWS0622	#8	0.176	0.201	0.372	0.062	0.387	1000
12SWS0859	#8	0.187	0.245	0.375	0.031	0.140	1000
12SWS1169	#8	0.188	0.312	0.562	0.062	0.250	1000
12SWS0819	#8	0.188	0.313	0.437	0.062	0.062	1000
12SWS1168	#8	0.188	0.375	0.562	0.062	0.438	1000
12SWS1028	#8	0.189	0.250	0.500	0.062	0.249	1000
12SWS2543	#8	0.189	0.490	0.750	0.095	0.779	1000
12SWS1050	#8	0.190	0.250	0.490	0.062	0.156	1000

Item No.	Fits Screw	ØA in	ØB in	ØC in	D in	E in	Pack Qty.
12SWS2499	#8	0.191	0.312	0.513	0.062	0.375	1000
12SWS0811	#8	0.192	0.245	0.375	0.046	0.046	1000
12SWS0219	#8	0.193	0.250	0.290	0.015	0.125	1000
12SWS0832	#8	0.193	0.257	0.375	0.035	0.043	1000
12SWS0901	#10	0.194	0.375	0.437	0.040	0.093	1000
12SWS0425	#10	0.196	0.250	0.312	0.062	0.031	1000
12SWS0828	#10	0.196	0.254	0.380	0.065	0.125	1000
12SWS0862	#10	0.196	0.287	0.390	0.078	0.187	1000
12SWS1029	#10	0.196	0.300	0.500	0.120	0.158	1000
12SWS0912	#10	0.196	0.303	0.432	0.031	0.140	1000
12SWS0821	#10	0.196	0.308	0.381	0.062	0.031	1000
12SWS0887	#10	0.197	0.240	0.408	0.062	0.187	1000
12SWS0847	#10	0.197	0.250	0.375	0.062	0.213	1000
12SWS1234	#10	0.197	0.252	0.394	0.063	0.315	1000
12SWS1074	#10	0.197	0.315	0.394	0.079	0.197	1000
12SWS1001	#10	0.200	0.260	0.399	0.062	0.375	1000
12SWS0871	#10	0.200	0.260	0.390	0.062	0.130	1000
12SWS1030	#10	0.200	0.281	0.490	0.062	0.093	1000
12SWS0872	#10	0.200	0.281	0.422	0.050	0.160	1000
12SWS1033	#10	0.200	0.312	0.500	0.062	0.312	1000
12SWS0935	#10	0.200	0.312	0.495	0.065	0.187	1000
12SWS1007	#10	0.201	0.281	0.437	0.046	0.046	1000
12SWS0908	#10	0.203	0.267	0.438	0.031	0.093	1000
12SWS1002	#10	0.203	0.267	0.438	0.062	0.093	1000
12SWS3680	#10	0.203	0.298	1.000	0.062	0.062	1000
12SWS0863	#10	0.203	0.313	0.390	0.078	0.078	1000
12SWS1008	#10	0.205	0.312	0.620	0.046	0.046	1000
12SWS0616	#10	0.218	0.250	0.320	0.039	0.126	1000
12SWS0896	#12	0.220	0.240	0.408	0.062	0.187	1000
12SWS0873	#12	0.221	0.256	0.394	0.039	0.126	1000
12SWS0904	#12	0.225	0.282	0.437	0.062	0.375	1000
12SWS2534	#12	0.234	0.282	0.745	0.031	0.187	1000
12SWS1101	#12	0.234	0.282	0.500	0.031	0.093	1000
12SWS0804	#12	0.236	0.315	0.355	0.020	0.177	1000
12SWS0905	1/4	0.250	0.310	0.425	0.062	0.062	1000
12SWS2507	1/4	0.250	0.370	0.600	0.125	0.125	1000
12SWS1048	1/4	0.250	0.375	0.500	0.062	0.437	1000
12SWS3165	1/4	0.250	0.620	0.875	0.125	0.375	1000
12SWS2505	1/4	0.252	0.312	0.500	0.062	0.031	1000
12SWS1072	1/4	0.252	0.346	0.615	0.062	0.065	1000
12SWS0868	1/4	0.253	0.312	0.375	0.062	0.031	1000
12SWS1240	1/4	0.254	0.375	0.630	0.062	0.187	1000
12SWS2502	1/4	0.255	0.312	0.467	0.046	0.125	1000
12SWS1018	1/4	0.255	0.322	0.625	0.062	0.187	1000
12SWS1025	1/4	0.255	0.375	0.562	0.062	0.437	1000
12SWS1159	1/4	0.255	0.375	0.550	0.062	0.562	1000
12SWS1040	1/4	0.257	0.343	0.505	0.062	0.093	1000
12SWS1053	1/4	0.257	0.375	0.500	0.125	0.170	1000
12SWS1151	1/4	0.260	0.300	0.562	0.046	0.104	1000
12SWS1098	1/4	0.260	0.312	0.515	0.062	0.140	1000
12SWS0956	1/4	0.260	0.312	0.500	0.032	0.187	1000
12SWS1075	1/4	0.260	0.370	0.513	0.062	0.250	1000
12SWS1017	1/4	0.260	0.375	0.562	0.093	0.062	1000
12SWS3504	1/4	0.260	0.375	0.625	0.125	0.812	1000
12SWS2570	1/4	0.260	0.385	0.740	0.140	0.687	1000
12SWS1220	1/4	0.260	0.400	0.620	0.125	0.750	1000
12SWS1152	1/4	0.265	0.370	0.525	0.063	0.500	1000
12SWS1012	1/4	0.266	0.359	0.697	0.062	0.125	1000
12SWS2508	1/4	0.290	0.500	0.674	0.093	0.187	1000
12SWS2561	5/16	0.312	0.434	0.750	0.171	0.421	500
12SWS1069	5/16	0.315	0.370	0.492	0.055	0.630	500
12SWS1232	5/16	0.316	0.370	0.620	0.062	0.500	500
12SWS3002	5/16	0.323	0.375	0.750	0.046	0.046	500
12SWS3001	5/16	0.328	0.437	0.693	0.062	0.125	500
12SWS2528	3/8	0.375	0.443	0.743	0.062	0.187	500
12SWS2556	3/8	0.375	0.500	0.750	0.062	0.187	500
12SWS2558	3/8	0.375	0.500	0.750	0.062	0.125	500
12SWS3007	3/8	0.375	0.500	0.750	0.125	0.062	500
12SWS3615	3/8	0.375	0.500	1.000	0.125	0.750	500
12SWS2506	3/8	0.380	0.500	0.625	0.062	0.312	500
12SWS3562	3/8	0.380	0.556	0.980	0.125	0.250	500
12SWS1205	3/8	0.383	0.434	0.622	0.046	0.031	500
12SWS2531	3/8	0.383	0.502	0.743	0.078	0.312	500
12SWS2526	7/16	0.437	0.562	0.688	0.062	0.500	500
12SWS2587	1/2	0.500	0.625	0.750	0.062	0.437	500
12SWS3025	1/2	0.505	0.625	0.750	0.062	0.312	500
12SWS2578	1/2	0.510	0.625	0.750	0.062	0.187	500
12SWS3690	1/2	0.510	0.700	1.125	0.093	0.437	500
12SWS3016	1/2	0.515	0.556	0.745	0.062	0.050	500
12SWS4003	1/2	0.515	0.752	1.105	0.125	0.281	500
12SWS3102	1/2	0.520	0.620	0.825	0.062	0.500	500
12SWS3595	9/16	0.562	0.750	0.875	0.063	0.250	500
12SWS3505	9/16	0.563	0.655	0.800	0.055	0.100	500
12SWS3688	3/4	0.750	0.880	1.130	0.062	0.313	500
12SWS3582	7/8	0.875	1.000	1.250	0.062	0.688	500

INSULATING WASHERS AND FLANGED BUSHINGS

SC Series
Shoulder Washers



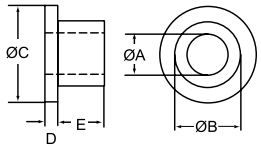
Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Use for connections between incompatible metals
- Provides electrical insulation

Item No.	Fits Screw	Ø A in	Ø B in	Ø C in	D in	E in	Pack Qty.
10SC002012	#2	0.09	0.12	0.181	0.046	0.125	1000
10SC002025	#2	0.09	0.12	0.181	0.046	0.250	1000
10SC004003	#4	0.115	0.145	0.235	0.046	0.031	1000
10SC004004	#4	0.115	0.145	0.235	0.046	0.046	1000
10SC004006	#4	0.115	0.145	0.235	0.046	0.062	1000
10SC004009	#4	0.115	0.145	0.235	0.046	0.093	1000
10SC004012	#4	0.115	0.145	0.235	0.046	0.125	1000
10SC004015	#4	0.115	0.145	0.235	0.046	0.156	1000
10SC004018	#4	0.115	0.145	0.235	0.046	0.187	1000
10SC004025	#4	0.115	0.145	0.235	0.046	0.250	1000
10SC004037	#4	0.115	0.145	0.235	0.046	0.375	1000
10SC004050	#4	0.115	0.145	0.235	0.046	0.500	1000
10SC006004	#6	0.14	0.17	0.29	0.046	0.046	1000
10SC006006	#6	0.14	0.17	0.29	0.046	0.062	1000
10SC006009	#6	0.14	0.17	0.29	0.046	0.093	1000
10SC006012	#6	0.14	0.17	0.29	0.046	0.125	1000
10SC006015	#6	0.14	0.17	0.29	0.046	0.156	1000
10SC006018	#6	0.14	0.17	0.29	0.046	0.187	1000
10SC006025	#6	0.14	0.17	0.29	0.046	0.250	1000
10SC006050	#6	0.14	0.17	0.29	0.046	0.500	1000
10SC006037	#6	0.14	0.17	0.29	0.046	0.375	1000
10SC008012	#8	0.173	0.205	0.344	0.062	0.125	1000
10SC008014	#8	0.173	0.205	0.344	0.062	0.140	1000
10SC008025	#8	0.173	0.205	0.344	0.062	0.250	1000

Item No.	Fits Screw	Ø A in	Ø B in	Ø C in	D in	E in	Pack Qty.
10SC008037	#8	0.173	0.205	0.344	0.062	0.375	1000
10SC008050	#8	0.173	0.205	0.344	0.062	0.500	1000
10SC008062	#8	0.173	0.205	0.344	0.062	0.625	1000
10SC008075	#8	0.173	0.205	0.344	0.062	0.750	1000
10SC010014	#10	0.200	0.260	0.399	0.062	0.140	1000
10SC010018	#10	0.200	0.260	0.399	0.062	0.187	1000
10SC010025	#10	0.200	0.260	0.399	0.062	0.250	1000
10SC010037	#10	0.200	0.260	0.399	0.062	0.375	1000
10SC010050	#10	0.200	0.263	0.399	0.062	0.500	1000
10SC010075	#10	0.200	0.260	0.399	0.062	0.750	1000
10SC010062	#10	0.200	0.260	0.399	0.062	0.625	1000
10SC250032	1/4	0.260	0.312	0.513	0.031	0.250	1000
10SC250012	1/4	0.260	0.312	0.513	0.062	0.125	1000
10SC250014	1/4	0.260	0.312	0.513	0.062	0.140	1000
10SC250018	1/4	0.260	0.312	0.513	0.062	0.187	1000
10SC250025	1/4	0.260	0.312	0.513	0.062	0.250	1000
10SC250037	1/4	0.260	0.312	0.513	0.062	0.375	1000
10SC250050	1/4	0.260	0.312	0.513	0.062	0.500	1000
10SC250075	1/4	0.260	0.312	0.513	0.062	0.750	1000
10SC250062	1/4	0.260	0.312	0.513	0.062	0.625	1000
10SC312012	5/16	0.320	0.360	0.620	0.062	0.125	1000
10SC312037	5/16	0.320	0.360	0.620	0.062	0.375	1000
10SC312062	5/16	0.320	0.360	0.620	0.062	0.625	1000
10SC312050	5/16	0.320	0.360	0.620	0.062	0.500	1000

FB and FBM Series
Flanged Bushings



Specifications:
- Material: Nylon
- Color: Natural

Features:
- Suitable for light-load bearings or bushing
- Will not rust, corrode or deteriorate
- Acts as an electrical insulator by preventing metal-to-metal contact
- Low-friction coefficient
- Can be used as a locator, sleeve, liner or glide

Imperial

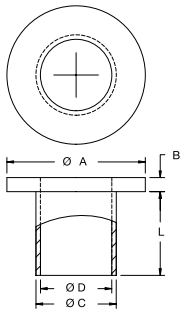
Item No.	Ø A in	Ø A mm	Ø B in	Ø B mm	Ø C in	Ø C mm	D in	D mm	E in	E mm	Pack Qty.
FB1080A	0.190	4.80	0.343	8.70	0.875	22.20	0.140	3.60	0.141	3.60	2500
FB1090A	0.190	4.80	0.375	9.50	0.500	12.70	0.113	2.90	0.325	8.30	4000
FB1120A	0.196	5.00	0.300	7.60	0.500	12.70	0.125	3.20	0.375	9.50	2000
FB1150A	0.196	5.00	0.344	8.70	0.500	12.70	0.187	4.70	0.407	10.30	4000
FB1170A	0.219	5.60	0.315	8.00	0.562	14.30	0.082	2.10	0.137	3.50	18000
FB1200A	0.253	6.40	0.440	11.20	0.937	23.80	0.125	3.20	0.165	4.20	1000
FB1250A	0.255	6.50	0.372	9.40	0.550	14.00	0.062	1.60	0.522	13.30	1000
FB1260A	0.255	6.50	0.375	9.50	0.635	16.10	0.062	1.60	0.213	5.40	5000
FB1270A	0.255	6.50	0.490	12.40	0.750	19.10	0.090	2.30	0.110	2.80	4500
FB1280A	0.258	6.60	0.317	8.10	0.562	14.30	0.062	1.60	0.313	8.00	6000
FB1370A	0.315	8.00	0.365	9.30	0.562	14.30	0.062	1.60	0.281	7.10	5000
FB1430A	0.375	9.50	0.469	11.90	0.687	17.40	0.078	2.00	0.094	2.40	4000
FB1440A	0.375	9.50	0.500	12.70	0.625	15.90	0.062	1.60	0.253	6.40	9000
FB1460A	0.375	9.50	0.500	12.70	0.745	18.90	0.062	1.60	0.750	19.10	5000
FB1480A	0.375	9.50	0.505	12.80	0.750	19.10	0.200	5.10	0.500	12.70	2000
FB1510A	0.383	9.70	0.500	12.70	0.750	19.10	0.125	3.20	0.360	9.10	3000
FB1530A	0.380	9.70	0.625	15.90	1.125	28.60	0.125	3.20	0.250	6.40	4000
FB1550A	0.385	9.80	0.625	15.90	0.750	19.10	0.094	2.40	0.500	12.70	6000
FB1600A	0.510	13.00	0.625	15.90	0.875	22.20	0.125	3.20	0.375	9.50	6000
FB1620A	0.750	19.10	0.875	22.20	1.125	28.60	0.062	1.60	0.313	8.00	4250
FB1640A	0.760	19.30	1.000	25.40	1.375	34.90	0.125	3.20	0.312	7.90	2500
FB1650A	0.765	19.40	0.875	22.20	1.125	28.60	0.125	3.20	0.750	19.10	2000
FB1660A	1.000	25.40	1.250	31.80	1.328	33.70	0.125	3.18	0.625	15.88	1300

Metric

Item No.	A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	Pack Qty.
FBM1000A	0.197	5.00	0.315	8.00	0.433	11.00	0.079	2.00	0.315	8.00	1000
FBM1010A	0.236	6.00	0.354	9.00	0.472	12.00	0.079	2.00	0.157	4.00	1000
FBM1020A	0.236	6.00	0.394	10.00	0.591	15.00	0.059	1.50	0.276	7.00	1000
FBM1030A	0.315	8.00	0.433	11.00	0.630	16.00	0.079	2.00	0.433	11.00	1000
FBM1040A	0.315	8.00	0.472	12.00	0.630	16.00	0.079	2.00	0.157	4.00	1000
FBM1050A	0.315	8.00	0.551	14.00	0.787	20.00	0.079	2.00	0.315	8.00	1000
FBM1060A	0.394	10.00	0.472	12.00	0.630	16.00	0.079	2.00	0.157	4.00	1000
FBM1070A	0.394	10.00	0.512	13.00	0.709	18.00	0.079	2.00	0.236	6.00	1000
FBM1080A	0.394	10.00	0.512	13.00	0.709	18.00	0.118	3.00	0.512	13.00	1000
FBM1090A	0.394	10.00	0.551	14.00	0.787	20.00	0.079	2.00	0.315	8.00	1000
FBM1100A	0.394	10.00	0.630	16.00	0.827	21.00	0.079	2.00	0.315	8.00	1000
FBM1110A	0.472	12.00	0.551	14.00	0.787	20.00	0.079	2.00	0.315	8.00	1000
FBM1120A	0.472	12.00	0.630	16.00	0.827	21.00	0.079	2.00	0.315	8.00	1000
FBM1130A	0.472	12.00	0.630	16.00	0.827	21.00	0.118	3.00	0.630	16.00	1000
FBM1150A	0.709	18.00	0.866	22.00	1.181	30.00	0.118	3.00	0.866	22.00	1000
FBM1160A	0.984	25.00	1.181	30.00	1.457	37.00	0.118	3.00	1.063	27.00	1000
FBM1170A	1.102	28.00	1.299	33.00	1.575	40.00	0.118	3.00	1.181	30.00	750

SHOULDER WASHERS

MNI Series
Shoulder Washer

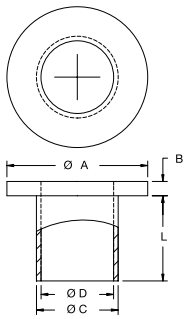


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Used as a screw insulator and in many bushing applications
- Lightweight
- Resistant to corrosion and abrasion
- High dielectric strength

Item No.	Fits Screw		L		Ø A		B		Ø C		Ø D		Pack Qty.
	Imperial	Metric	in	mm	in	mm	in	mm	in	mm	in	mm	
MNI-2-2	#2	M2	0.031	0.8	0.181	4.6	0.047	1.2	0.120	3.0	0.090	2.3	1000
MNI-2-4	#2	M2	0.063	1.6	0.181	4.6	0.047	1.2	0.120	3.0	0.090	2.3	1000
MNI-4-2	#4	M2.5	0.031	0.8	0.235	6.0	0.047	1.2	0.145	3.7	0.115	2.9	1000
MNI-4-3	#4	M2.5	0.046	1.2	0.235	6.0	0.047	1.2	0.145	3.7	0.115	2.9	1000
MNI-4-4	#4	M2.5	0.063	1.6	0.235	6.0	0.047	1.2	0.145	3.7	0.115	2.9	1000
MNI-4-5	#4	M2.5	0.084	2.1	0.252	6.4	0.047	1.2	0.140	3.6	0.115	2.9	1000
MNI-4-6	#4	M2.5	0.093	2.4	0.235	6.0	0.047	1.2	0.145	3.7	0.115	2.9	1000
MNI-4-8	#4	M2.5	0.125	3.2	0.235	6.0	0.047	1.2	0.145	3.7	0.115	2.9	1000
MNI-4-10	#4	M2.5	0.156	4.0	0.235	6.0	0.047	1.2	0.145	3.7	0.115	2.9	1000
MNI-4-12	#4	M2.5	0.187	4.7	0.235	6.0	0.047	1.2	0.145	3.7	0.115	2.9	1000
MNI-4-16	#4	M2.5	0.250	6.4	0.235	6.0	0.047	1.2	0.145	3.7	0.115	2.9	1000
MNI-4-24	#4	M2.5	0.375	9.5	0.235	6.0	0.047	1.2	0.145	3.7	0.115	2.9	1000
MNI-5-3	#5	M3	0.051	1.3	0.370	9.4	0.047	1.2	0.236	6.0	0.128	3.3	1000
MNI-6-2	#6	M3.5	0.031	0.8	0.290	7.4	0.047	1.2	0.170	4.3	0.140	3.6	1000
MNI-6-4	#6	M3.5	0.063	1.6	0.290	7.4	0.047	1.2	0.170	4.3	0.140	3.6	1000
MNI-6-6	#6	M3.5	0.093	2.4	0.290	7.4	0.047	1.2	0.170	4.3	0.140	3.6	1000
MNI-6-8	#6	M3.5	0.125	3.2	0.290	7.4	0.047	1.2	0.170	4.3	0.140	3.6	1000
MNI-6-12	#6	M3.5	0.187	4.7	0.290	7.4	0.047	1.2	0.170	4.3	0.140	3.6	1000
MNI-6-16	#6	M3.5	0.250	6.4	0.290	7.4	0.047	1.2	0.170	4.3	0.140	3.6	1000
MNI-6-24	#6	M3.5	0.375	9.5	0.290	7.4	0.047	1.2	0.170	4.3	0.140	3.6	1000
MNI-6-32	#6	M3.5	0.500	12.7	0.290	7.4	0.047	1.2	0.170	4.3	0.140	3.6	1000
MNI-8-2	#8	M4	0.031	0.8	0.344	8.7	0.063	1.6	0.205	5.2	0.173	4.4	1000
MNI-8-4	#8	M4	0.063	1.6	0.344	8.7	0.063	1.6	0.205	5.2	0.173	4.4	1000
MNI-8-6	#8	M4	0.093	2.4	0.344	8.7	0.063	1.6	0.205	5.2	0.173	4.4	1000
MNI-8-8	#8	M4	0.125	3.2	0.344	8.7	0.063	1.6	0.205	5.2	0.173	4.4	1000
MNI-8-12	#8	M4	0.187	4.7	0.344	8.7	0.063	1.6	0.205	5.2	0.173	4.4	1000
MNI-8-16	#8	M4	0.250	6.4	0.344	8.7	0.063	1.6	0.205	5.2	0.173	4.4	1000
MNI-8-24	#8	M4	0.375	9.5	0.344	8.7	0.063	1.6	0.205	5.2	0.173	4.4	1000
MNI-8-32	#8	M4	0.500	12.7	0.344	8.7	0.063	1.6	0.205	5.2	0.173	4.4	1000
MNI-10-4	#10	M5	0.063	1.6	0.399	10.1	0.063	1.6	0.260	6.6	0.200	5.1	1000
MNI-10-6	#10	M5	0.093	2.4	0.399	10.1	0.063	1.6	0.260	6.6	0.200	5.1	1000
MNI-10-8	#10	M5	0.125	3.2	0.399	10.1	0.063	1.6	0.260	6.6	0.200	5.1	1000
MNI-10-12	#10	M5	0.187	4.7	0.399	10.1	0.063	1.6	0.260	6.6	0.200	5.1	1000
MNI-10-16	#10	M5	0.250	6.4	0.399	10.1	0.063	1.6	0.260	6.6	0.200	5.1	1000
MNI-10-24	#10	M5	0.375	9.5	0.399	10.1	0.063	1.6	0.260	6.6	0.200	5.1	1000
MNI-10-32	#10	M5	0.500	12.7	0.399	10.1	0.063	1.6	0.260	6.6	0.200	5.1	1000
MNI1/4-6	1/4	M6	0.093	2.4	0.513	13.0	0.065	1.7	0.312	7.9	0.260	6.6	1000
MNI1/4-12	1/4	M6	0.187	4.7	0.513	13.0	0.065	1.7	0.312	7.9	0.260	6.6	1000
MNI1/4-16	1/4	M6	0.250	6.4	0.513	13.0	0.065	1.7	0.312	7.9	0.260	6.6	1000
MNI1/4-24	1/4	M6	0.375	9.4	0.513	13.0	0.065	1.7	0.312	7.9	0.260	6.6	1000
MNI1/4-32	1/4	M6	0.500	12.7	0.513	13.0	0.065	1.7	0.312	7.9	0.260	6.6	1000
MNI5/16-6	5/16	M8	0.093	2.4	0.620	15.7	0.063	1.6	0.360	9.1	0.320	8.1	1000
MNI5/16-12	5/16	M8	0.187	4.7	0.620	15.7	0.063	1.6	0.360	9.1	0.320	8.1	1000
MNI5/16-16	5/16	M8	0.250)	6.4	0.620	15.7	0.063	1.6	0.360	9.1	0.320	8.1	1000
MNI-M2.5-1.3	#2	M2.5	0.051	1.3	0.248	6.3	0.047	1.2	0.138	3.5	0.114	2.9	1000
MNI-M2.5-3.6	#2	M2.5	0.142	3.6	0.280	7.1	0.059	1.5	0.150	3.8	0.110	2.8	1000
MNIM3-1.0	#4	M3	0.039	1.0	0.280	7.1	0.039	1.0	0.150	3.8	0.122	3.1	1000
MNI-M3-1.3	#4	M3	0.051	1.3	0.347	8.8	0.047	1.2	0.236	6.0	0.126	3.2	1000
MNIM3-2.5	#4	M3	0.098	2.5	0.280	7.1	0.039	1.0	0.150	3.8	0.122	3.1	1000
MNIM3-3.5	#4	M3	0.137	3.5	0.280	7.1	0.039	1.0	0.150	3.8	0.122	3.1	1000

MNI-HT Series
High Temperature Shoulder Washer

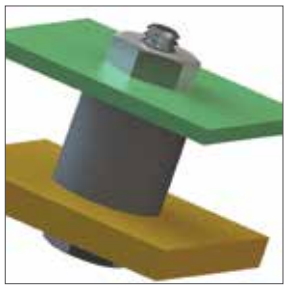


Specifications:
- Material: UL94 V-0 Glass Filled Polyphenylene Sulfide
- Color: Black

Features:
- Temperature: up to 428°F (220°C)

Item No.	Fits Screw		L		Ø A		B		Ø C		Ø D		Pack Qty.
	Imperial	Metric	in	mm	in	mm	in	mm	in	mm	in	mm	
MNI-HT-4-2	#4	M3	0.031	0.8	0.280	7.1	0.047	1.2	0.145	3.7	0.118	3.0	1000
MNI-HT-4-220	#4	M3	0.032	0.8	0.215	5.5	0.040	1.0	0.135	3.4	0.116	2.9	1000
MNI-HT-10-6	#10	M4.5	0.093	2.4	0.399	10.0	0.063	1.6	0.260	6.6	0.200	5.1	1000

QM Series
Quiet Mounts



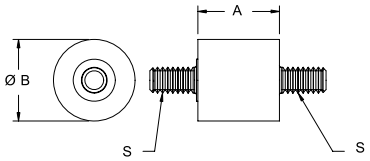


Fig. 1

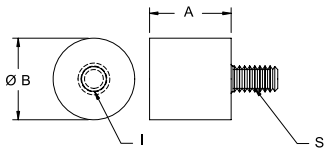


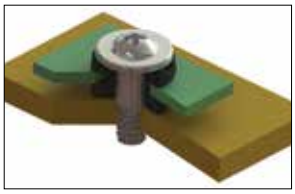
Fig. 2

Specifications:
- Material: 40 Shore A Neoprene Rubber, 1010-1020 Steel
- Color: Black

Features:
- Absorbs vibration, noise and shock
- For heavy duty applications

Item No.	Fig	A in	A mm	Ø B in	Ø B mm	S in	I in	Ref Loadat 15% Deflection lbs	Ref Loadat 15% Deflection kg	Pack Qty.
QM1	**1**	7/16	11.1	7/16	11.1	#6-32 x 1/4	—	8	4	100
QM1T	**2**	7/16	11.1	7/16	11.1	#6-32 x 1/4	#6-32 x 3/16	5	2	100
QM2T	**2**	7/16	11.1	7/16	11.1	#6-32 x 1/2	#6-32 x 3/16	7	3	100
QM3	**1**	1/2	12.7	7/16	11.1	#8-32 x 3/8	—	9	4	100
QM3T	**2**	1/2	12.7	7/16	11.1	#8-32 x 3/8	#8-32 x 3/16	8	4	100
QM4	**1**	1/2	12.7	9/16	14.3	#8-32 x 3/8	—	15	7	100
QM4T	**2**	1/2	12.7	9/16	14.3	#8-32 x 3/8	#8-32 x 3/16	28	13	100
QM5	**1**	3/4	19.1	1.2	25.4	1/4-20 x 1/2	—	43	20	100
QM7	**1**	9/16	14.3	1/2	12.7	#10-32 x 3/8	—	3	1	100
QM7T	**2**	9/16	14.3	1/2	12.7	#10-32 x 3/8	#10-32 x 3/16	10	5	100

VG Series
Vibration Grommet



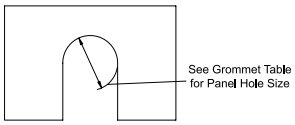
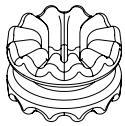
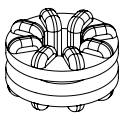
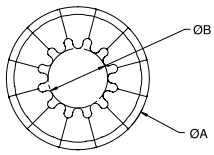


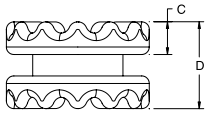
Fig. 1

Fig. 2







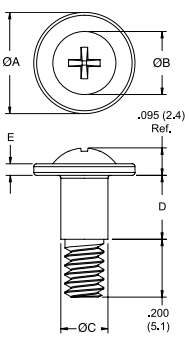


Specifications:
- Material: Neoprene Rubber, 60 Shore A
- Color: Black

Features:
- Provides vibration and noise control
- Shock protection
- VG grommet is mounted with VGS screw (sold separately see below)

Item No.	Ø A in	Ø A mm	Ø B in	Ø B mm	Panel Thickness in	Panel Thickness mm	Ø Hole in	Ø Hole mm	C Typ. in	C Typ. mm	D Ref. in	D Ref. mm	Fig.	Mating Screws	Pack Qty.
VG-1	0.380	9.7	0.158	4.0	0.057	1.45	0.250	6.35	0.087	2.2	0.231	5.9	1	**VGS-1** or **VGS-4**	1000
VG-2	0.565	14.4	0.188	4.8	0.063	1.60	0.375	.9.53	0.131	3.3	0.324	8.2	1	**VGS-2** or **VGS-5**	1000
VG-3	0.380	9.4	0.158	4.0	0.031	0.79	0.250	6.35	0.100	2.5	0.231	5.9	1	**VGS-1** or **VGS-4**	1000
VG-4	0.565	14.4	0.188	.188	0.043	1.09	0.375	.375	0.141	3.6	0.324	8.2	1	**VGS-2** or **VGS-5**	1000
VG-5	0.374	9.5	0.142	.142	0.055	1.40	0.217	.217	0.083	2.1	0.217	5.5	2	**VGS-3** or **VGS-6**	1000

VGS Series
Vibration Grommet Screw



Specifications:
- Material: Zinc Plated 1022 Carbon Steel

Features:
- Mounts the VG grommet seen above

Item No.	Thread	Use With Grommet Item No.	Ø A in	Ø A mm	Ø B Ref. in	Ø B Ref. mm	Ø C in	Ø C mm	D in	D mm	E in	E mm	Pack Qty.
VGS-1	#6-32 UNC-2A	**VG-1, VG-3**	0.350	8.9	0.218	5.5	0.163	4.1	0.205	5.2	0.050	1.3	1000
VGS-2	#6-32 UNC-2A	**VG-2, VG-4**	0.500	12.7	0.320	8.1	0.194	4.9	0.290	7.4	0.040	1.0	1000
VGS-3	#6-32 UNC-2A	**VG-5**	0.350	8.9	0.218	5.5	0.146	3.7	0.195	5.0	0.050	1.3	1000
VGS-4	M3 x 0.5	**VG-1, VG-3**	0.350	8.9	0.218	5.5	0.163	4.1	0.205	5.2	0.050	1.3	1000
VGS-5	M3 x 0.5	**VG-2, VG-4**	0.500	12.7	0.320	8.1	0.194	4.9	0.290	7.4	0.040	1.0	1000
VGS-6	M3 x 0.5	**VG-5**	0.350	8.9	0.218	5.5	0.146	3.7	0.196	5.0	0.050	1.3	1000

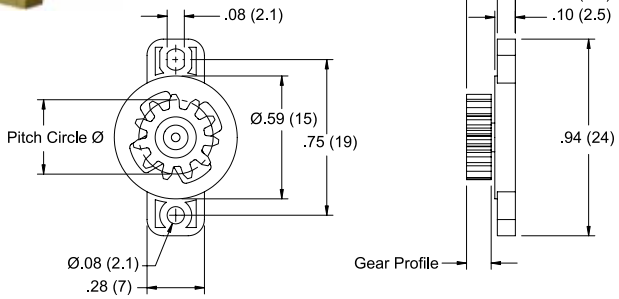
ROTARY DAMPERS

RFRT-G Series
Two Way Rotary Damper

Specifications:
- Material: Housing: UL94 HB Polycarbonate, Shaft and Gear: Acetal
- Color: Black

Features:
- Enables products tp function with a smooth, mechanical motion
- Prevents lid and access panel colsure damage
- Dampens in both directions of rotation
- Mounts with M2 screws or SR-20XX Snap Rivets (see page 121)

Item No.	Torque (gf.cm) @ 20RPM and 23° C	Gear Style
RFRT-G2-200-G1	20 ± 7	1
RFRT-G2-200-G2	20 ± 7	2
RFRT-G2-200-G3	20 ± 7	3
RFRT-G2-300-G1	30 ± 8	1
RFRT-G2-300-G2	30 ± 8	2
RFRT-G2-300-G3	30 ± 8	3
RFRT-G2-450-G1	45 ± 10	1
RFRT-G2-450-G2	45 ± 10	2
RFRT-G2-450-G3	45 ± 10	3
RFRT-G2-600-G1	60 ± 12	1
RFRT-G2-600-G2	60 ± 12	2
RFRT-G2-600-G3	60 ± 12	3
RFRT-G2-101-G1	100 ± 20	1
RFRT-G2-101-G2	100 ± 20	2
RFRT-G2-101-G3	100 ± 20	3



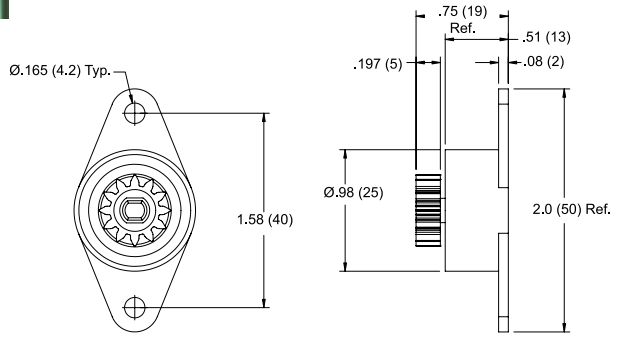
Gear	Gear Style 1	2	3
Type	Standard Spur	Standard Spur	Standard Spur
Tooth Profile	Involute Gear	Involute Gear	Involute Gear
Pressure Angle	20°	20°	20°
No of Teeth	14	10	11
Pitch Circle Ø	.28 (7)	.39 (10)	.35 (8.8)
Gear Profile	.15 (3.7)	.12 (3)	.14 (3.6)
Total Profile Ref	.26 (6.6)	.23 (5.9)	.26 (6.5)

RFRT-D2 Series
Two Way High Torque Rotary Damper

Specifications:
- Material: Housing: UL94 HB Polycarbonate, Shaft and Gear: Acetal
- Color: Black

Features:
- Enables products tp function with a smooth, mechanical motion
- Prevents lid and access panel colsure damage
- Dampens in both directions of rotation
- Mounts with #8/M4 scrws or SR-40XX Snap Rivets (see page 119)

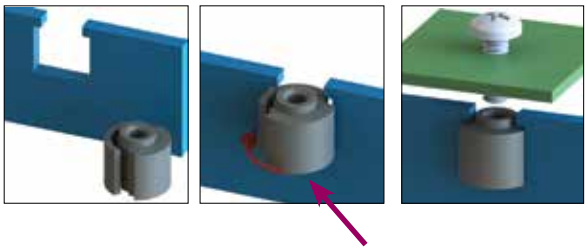
Item No.	Torque (gf.cm) @ 20RPM and 23° C
RFRT-D2-102-G2	1000 ± 200
RFRT-D2-152-G2	1500 ± 300

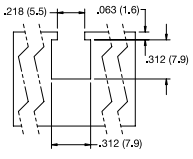


Gear	
Type	Standard Spur
Tooth Profile	Involute Gear
Pressure Angle	20°
No of Teeth	12
Pitch Circle	.47

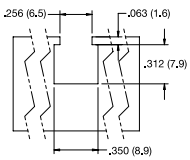
SHEET EDGE INSERT, SHELF ACCESSORIES AND SUCTION CUPS

SEI Series
Sheet Edge Insert

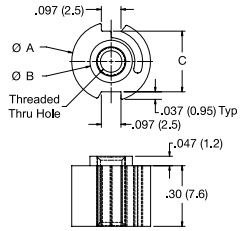




Mounting Hole 1



Mounting Hole 2



Installation:

1. Install insert notch into the side of the panel opening
2. Rotate spring leg of insert toward the panel. This compresses the spring leg allowing it to pass through the notch in the panel
3. Leg will snap back to its normal position securing insert in panel

NOTE: Screwdriver required for installation

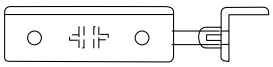
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Provides strong threads in metal sheets too thin to be tapped
- Fastens to the edges of thin sheets
- Alternative to self-clinching inserts
- Can be removed by pinching the spring legs and rotating
- Internal thread requires a screwdriver for installation

Item No.	Thread Type	Ø A		Ø B		C		Panel Thickness		Mounting Hole	Pack Qty.
		in	mm	in	mm	in	mm	in	mm		
SEI-1	#6-32 UNC	0.39	9.9	0.21	5.3	0.30	7.6	0.050 - 0.095	1.27 - 2.41	1	1000
SEI-2	M4	0.39	9.9	0.21	5.3	0.30	7.6	0.050 - 0.091	1.27 - 2.30	1	1000
SEI-3	M3	0.39	9.9	0.21	5.3	0.30	7.6	0.050 - 0.091	1.27 - 2.30	1	1000
SEI-4	M5	0.43	10.9	0.25	6.3	0.34	8.6	0.050 - 0.095	1.27 - 2.41	2	1000
SEI-5	M6	0.43	10.9	0.25	6.3	0.34	8.6	0.050 - 0.095	1.27 - 2.41	2	1000

GSS Series
Glass Shelf Supports

Specifications:
- Material: Butyrate
- Color: Clear



Features:
- Clamps easily to metal brackets
- Clear butyrate is glass-like in appearance as well as stress and impact resistant

Item No.	Bracket Thickness in	Style	Pack Qty.
GSS1000A	0.093	Center Back Clip	5000
GSS1100A	0.093	Center Front Clip	3500

RCL Series
Retainer Clips

Specifications:
- Material: See Table
- Color: See Table

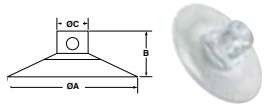
Features:
- Used for retaining panels or screens to an opening in a door
- Attractive and economical method of securing a mirror to a wall or as a means of mounting a picture into a frame

Item No.	Panel Thickness in	Color	Material	Pack Qty.
RCL1000A	0.156	Natural	Nylon	21000
RCL1000B	0.156	Clear	Butyrate	16500

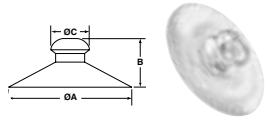
SUC Series
Suction Cups

Specifications:
- Material: PVC
- Color: Clear

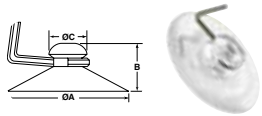
Features:
- **Style 1** is designed with a side pilot hole to be used with string hanger, wire dowels or various other fasteners
- **Style 2** with the mushroom head design can be used with a wide range of self hanging products
- **Style 3** with the hook design is perfect for window mounted signs, ornaments and decorations
- **Style 4** or the double suction cup securely holds, separates, and cushions parallel glass or related surfaces



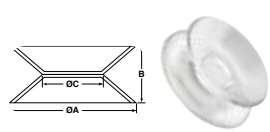
Style 1



Style 2



Style 3



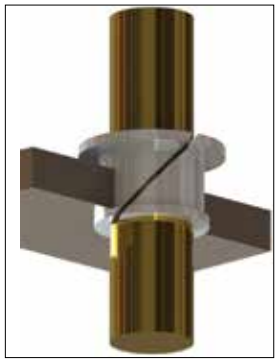
Style 4

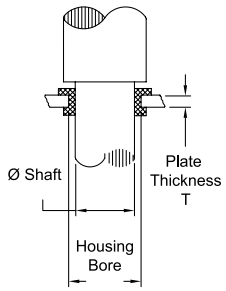
Item No.	Style	Ø A in	B in	Ø C in	Ø Hole in	Pack Qty.
SUC100A	1	0.866	0.331	0.244	0.110	3000
SUC105A	1	0.984	0.394	0.311	0.157	2000
SUC110A	1	1.181	0.551	0.374	0.185	1500
SUC115A	1	1.378	0.492	0.354	0.185	1000
SUC120A	1	1.575	0.630	0.354	0.197	800
SUC125A	1	1.772	0.748	0.492	0.197	500
SUC130A	1	1.969	0.661	0.394	0.213	350
SUC135A	1	2.165	0.787	0.551	0.256	250
SUC140A	1	2.480	0.787	0.591	0.256	230
SUC200A	2	0.748	0.394	0.327	—	3000
SUC205A	2	0.866	0.325	0.315	—	3500
SUC210A	2	1.181	0.449	0.449	—	1500
SUC215A	2	1.378	0.492	0.541	—	1000
SUC220A	2	1.575	0.598	0.531	—	800

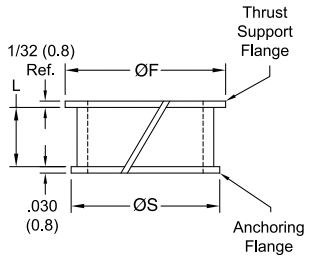
Item No.	Style	Ø A in	B in	Ø C in	Ø Hole in	Pack Qty.
SUC225A	2	1.772	0.561	0.587	—	500
SUC230A	2	1.969	0.433	0.610	—	350
SUC235A	2	2.165	0.787	0.626	—	250
SUC240A	2	2.480	0.917	0.709	—	230
SUC300A	3	0.866	0.295	0.287	—	2000
SUC305A	3	1.181	0.449	0.449	—	1000
SUC310A	3	1.378	0.492	0.541	—	700
SUC315A	3	1.575	0.551	0.531	—	500
SUC320A	3	1.654	0.598	0.453	—	500
SUC325A	3	1.772	0.561	0.587	—	400
SUC330A	3	1.969	0.689	0.610	—	300
SUC335A	3	2.165	0.787	0.626	—	250
SUC400A	4	0.787	0.374	0.374	—	2000
SUC405A	4	1.181	0.591	0.512	—	1000

SNAP IN BEARINGS

R Series
Snap In Bearing







Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Effective at damping out noise and vibration
- Does not require lubrication
- Axiam slot helps maintain proper fit and compensate for humidity and temperature changes

Item No.	Maximum Shaft Ø		Minimum Housing Bore		Bearing ID Installed		F Ø		S Ø		L		T		Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
R3L1-C	3/16	4.8	0.234	5.9	0.189	4.8	5/16	7.9	1/4	6.4	0.078	2.0	0.040 - 0.075	1.0 - 1.9	1000
R3L2-C	3/16	4.8	0.234	5.9	0.189	4.8	5/16	7.9	1/4	6.4	0.140	3.6	0.072 - 0.135	1.8 - 3.4	1000
R4L1-C	1/4	6.4	5/16	7.9	0.251	6.4	7/16	11.1	11/32	8.7	0.078	2.0	0.040 - 0.075	1.0 - 1.9	1000
R5L1-C	5/16	7.9	3/8	9.5	0.314	8	1/2	12.7	13/32	10.3	0.078	2.0	0.040 - 0.075	1.0 - 1.9	1000
R6L2-C	3/8	9.5	7/16	11.1	0.376	9.6	9/16	14.3	15/32	11.9	0.140	3.6	0.072 - 0.135	1.8 - 3.4	1000
R12L1-C	3/4	19.1	13/16	20.6	0.751	19.1	1	25.4	27/32	21.4	0.078	2.0	0.040 - 0.075	1.0 - 1.9	1000

Radial Load Capacity (in lbs.)

Item No.	Nominal Bearing ID			RPM			
	in	mm	Static	10	50	100	250
R3L1-C	3/16	4.8	24	4	4	3	2
R3L2-C	3/16	4.8	48	9	8	6	4
R4L1-C	1/4	6.4	32	5	5	4	2
R5L1-C	5/16	7.9	40	8	6	4	2
R6L2-C	3/8	9.5	96	19	15	10	4
R12L1-C	3/4	19.1	100	20	14	6	2.5

Installation

Bearings should always be installed in a housing bore that provides good support for the bearing.

When operated continuously without lubrication at the maximum permissible speed of 500 rpm, shafts should be hardened or plated in the bearing area to minimize wear.

Unhardened stainless steel shafts are not recommended. Use chromium plated or nickel plated shafts where corrosion is a problem.

Correct Clearances

Housing bore diameters should not be smaller than the minimum diameters specified in tables presented in this catalog. To check bearing I.D.'s for clearance, the bearing should be installed in its housing bore. Plug gauges with diameters corresponding to the minimum and maximum recommended I.D.'s can be used to determine whether the clearance is correct for the bearing when operated on recommended shaft.

When bearings must operate in liquids, the wall thickness of the bearing will increase due to absorption of liquid. Wall thicknesses also increase when bearings are used in a consistently humid environment.

The compensation gap allows for the bearing to be collapsed sufficiently so that the small flange can be easily spiraled through the mounting hole. Position the bearing over the hole with the gap facing up. With light finger pressure immediately to the left of the compensation gap, the bearing is spiraled into position.

Bearings perform effectively in temperature ratings from -40°F to +200°F. Bearing load ratings to 8,000 PSI and speed ratings up to 2,000 feet per minute ensure durability.

Hook and Loop Pieces

Specifications:
- Adhesive: Rubber-based permanent (not recommended in applications with direct UV exposure)
- Material: 100% Nylon with clear Polyester film liner
- Color: See Table
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:
- Strong adhesive with high initial tack ("Quick Stick")
- On clear polyester liner for easy release
- Bonds well to low surface energy plastics, corrugate, chipboard, glass, wood, powder coated material

White Pre-Cut Pieces

Item No.		Width	Length	Pieces/ Carton
Hook Side	Loop Side	in	in	
476832	476852	3/4	3	5000
476837	476857	1	2	5000
476838	476858	1	3	5000
476839	476859	1	4	3000
476840	476860	1	5	2500
476841	476861	1	10	2000

Black Pre-Cut Pieces

Item No.		Width	Length	Pieces/ Carton
Hook Side	Loop Side	in	in	
476877	476897	1	2	5000
476878	476898	1	3	5000
476879	476899	1	4	3000
476880	476900	1	5	2500

Hook and Loop Mated Sets

Specifications:
- Adhesive: Rubber-based permanent (not recommended in applications with direct UV exposure)
- Material: 100% Nylon with clear Polyester film liner
- Color: See Table
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

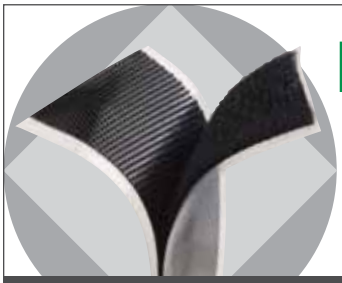
Features:
- Strong adhesive with high initial tack ("Quick Stick")
- On clear polyester liner for easy release
- Bonds well to low surface energy plastics, corrugate, chipboard, glass, wood, powder coated material
- Mated pieces save time in assembly

White Pre-Cut Mated Sets

	Width	Length	Sets/ Carton
Item No.	in	in	
476904	1/2	2	5000
476912	3/4	3	2500
476913	3/4	4	2000
476914	3/4	5	1500
476915	3/4	10	750
476916	1	1	5000
476917	1	2	2500
476918	1	3	2000
476919	1	4	1500
476920	1	5	1000
476921	1	10	500

Black Pre-Cut Mated Sets

	Width	Length	Sets/ Carton
Item No.	in	in	
476931	3/4	2	4000
476936	1	1	5000
476937	1	2	2500
476938	1	3	2000
476939	1	4	1500
476940	1	5	1000
476941	1	10	500



Need Something Thinner?

Hook and Loop Low Profile

see page 154

Up to 40% thinner than standard hook and loop!

HOOK AND LOOP

Hook and Loop Spools

Specifications:
- Adhesive: Rubber-based permanent (not recommended in applications with direct UV exposure)
- Material: 100% Nylon with clear Polyester film liner
- Color: See Table
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:
- Strong adhesive with high initial tack ("Quick Stick")
- On clear polyester liner for easy release
- Bonds well to: low surface energy plastics, corrugate, chipboard, glass, wood, powder coated material

White Spools

Item No.		Width	Length
Hook Side	Loop Side	in	yds
476962	476963	1/2	1200
476970	476971	3/4	800
476974	476975	1	650

Black Spools

Item No.		Width	Length
Hook Side	Loop Side	in	yds
476964	476965	1/2	1200
476972	476973	3/4	800
476976	476977	1	650

Hook and Loop Rolls

Specifications:
- Adhesive: Rubber-based permanent (not recommended in applications with direct UV exposure)
- Material: 100% Nylon with clear Polyester film liner
- Color: See Table
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:
- Strong adhesive with high initial tack ("Quick Stick")
- On clear polyester liner for easy release
- Bonds well to low surface energy plastics, corrugate, chipboard, glass, wood, powder coated material

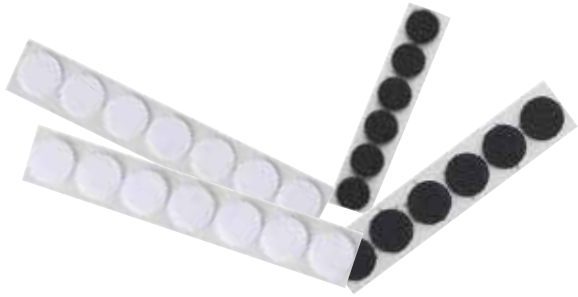
White Rolls

Item No.		Width	Length
Hook Side	Loop Side	in	yds
476804	476816	1/2	25
476805	476817	5/8	25
476806	476818	3/4	25
476807	476819	1	25
476809	476821	2	25

Black Rolls

Item No.		Width	Length
Hook Side	Loop Side	in	yds
476798	476810	1/2	25
476799	476811	5/8	25
476800	476812	3/4	25
476803	476813	1	25
476801	476814	1-1/2	25
476802	476815	2	25

Hook and Loop Coins



Specifications:
- Adhesive: Rubber-based permanent (not recommended in applications with direct UV exposure)
- Material: 100% Nylon with clear Polyester film liner
- Color: See Table
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:
- Strong adhesive with high initial tack ("Quick Stick")
- On clear polyester liner for easy release
- Bonds well to low surface energy plastics, corrugate, chipboard, glass, wood, powder coated material

White Coins

Item No.		Diameter	Coins/ Roll	Rolls/ Carton
Hook Side	Loop Side	in		
476959	476961	3/8	1800	24
476946	476954	1/2	1440	24
476947	476955	5/8	1200	24
476948	476956	3/4	1028	18
476949	476957	7/8	900	18

Black Coins

Item No.		Diameter	Coins/ Roll	Rolls/ Carton
Hook Side	Loop Side	in		
476942	476950	1/2	1440	24
476943	476951	5/8	1200	24
476944	476952	3/4	1028	18
476945	476953	7/8	900	18

Thick Hook and Loop Pieces

ESSENTRA EXCLUSIVE

Specifications:
- Adhesive: Rubber-based permanent (not recommended in applications with direct UV exposure)
- Material: 100% Nylon with clear Polyester film liner
- Color: Black
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:
- Combines Twin Stick® with Duraco® Hook and Loop for better gap filling and conformability in a hook and loop fastener
- Bonds well to low surface energy plastics, corrugate, chipboard, glass, wood, powder coated material

Black Pre-Cut Pieces On A Roll

Item No.		Foam Thickness	Width	Length	Pieces/ Roll
Hook Side	Loop Side	in	in	in	
471697	**471706**	1/8	1	4	1500

Hook and Loop Sew On Rolls

Specifications:
- Material: 100% Nylon
- Color: See Table

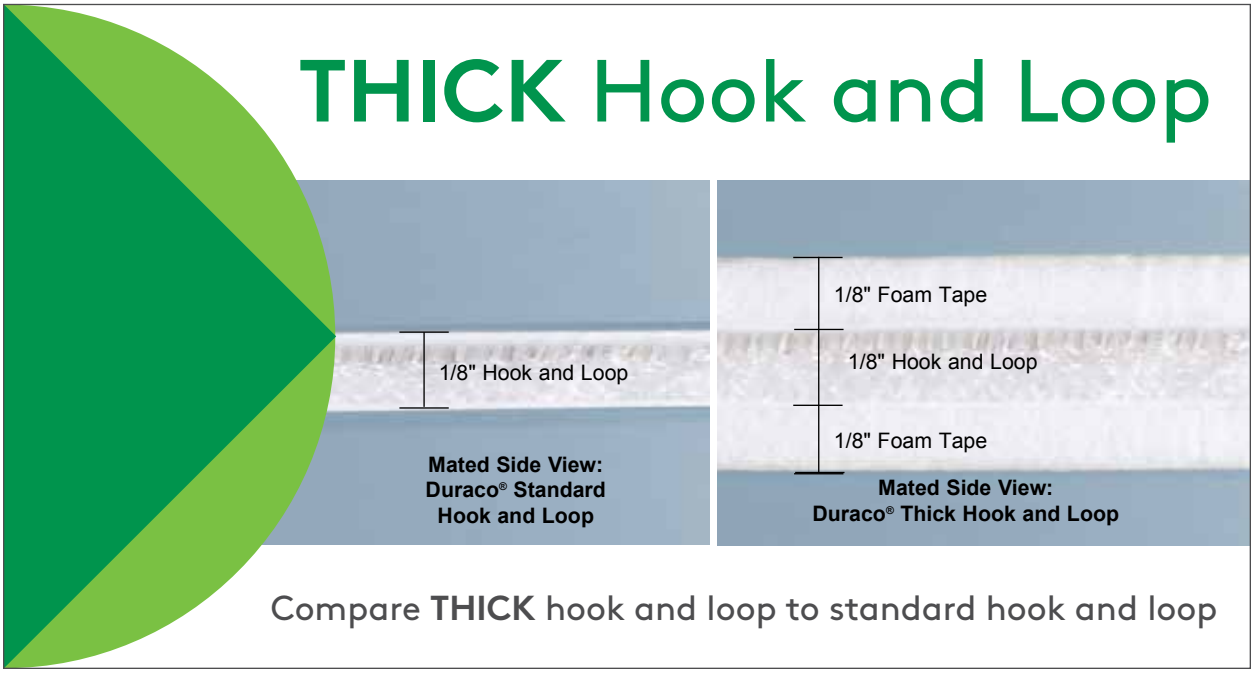
Features:
- Provides strong hook and loop fastening for sew on applications
- Applications: orthopedics, medical devices, banners, event design, trade shows, fabric displays, apparel

White Sew On Rolls

Item No.		Width	Length	Rolls/ Carton
Hook Side	Loop Side	in	yds	
472978	**472979**	1	25	20

Black Sew On Rolls

Item No.		Width	Length	Rolls/ Carton
Hook Side	Loop Side	in	yds	
472980	**472981**	1	25	20



HOOK AND LOOP

Hook and Loop Mated Coins

Specifications:
- Adhesive: Rubber-based permanent (not recommended in applications with direct UV exposure)
- Material: 100% Nylon with clear Polyester film liner
- Color: See Table
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:
- Strong adhesive with high initial tack ("Quick Stick")
- On clear polyester liner for easy release
- Bonds well to low surface energy plastics, corrugate, chipboard, glass, wood, powder coated material
- Pre-cut mated coins save time in assembly

White Mated Coins

Item No.	Width in	Sets/Roll
476982	3/8	1500
476983	1/2	1000
476985	3/4	1000
476986	7/8	1000
476987	1	500

Black Mated Coins

Item No.	Width in	Sets/Roll
476990	3/8	1500
476991	1/2	1000
476992	5/8	1000
476993	3/4	1000
476994	7/8	1000
476995	1	500

Hook and Loop Low Profile

UP TO 40% THINNER

Specifications:
- Adhesive: Rubber-based permanent (not recommended in applications with direct UV exposure)
- Material: 100% Nylon with clear Polyester film liner
- Color: See Table
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:
- Strong adhesive backing in a slim profile that is up to 40% thinner than standard hook and loop
- On clear polyester liner for easy release
- Ideal for low cycle applications

White Low Profile Rolls

Item No.		Width	Length	Rolls/ Carton
Hook Side	Loop Side	in	yds	
475792	**475796**	1/2	25	40
475793	**475797**	5/8	25	30
475794	**475798**	3/4	25	25
475795	**475799**	1	25	20

Black Low Profile Rolls

Item No.		Width	Length	Rolls/ Carton
Hook Side	Loop Side	in	yds	
475800	**475804**	1/2	25	40
475801	**475805**	5/8	25	30
475802	**475806**	3/4	25	25
475803	**475807**	1	25	20

White Coins On A Roll

Item No.		Diameter	Coins/ Roll	Rolls/ Carton
Hook Side	Loop Side	in		
475808	**475812**	1/2	1440	30
475809	**475813**	5/8	1200	25
475810	**475814**	3/4	1028	20
475811	**475815**	7/8	900	20

Black Coins On A Roll

Item No.		Diameter	Coins/ Roll	Rolls/ Carton
Hook Side	Loop Side	in		
475816	**475820**	1/2	1440	30
475817	**475821**	5/8	1200	25
475819	**475823**	7/8	900	20

Duraco High Bond® Gray

ESSENTRA EXCLUSIVE

Specifications:
- Material: Acrylic foam with an acrylic adhesive
- Color: Gray
- Service Temperature: See Table

Features:
- High performance acrylic foam core tapes
- Aesthetically pleasing - create nearly invisible bond lines without welds, rivets, and screws
- Tamper resistant - permanent bond
- Excellent resistance to temperature cycles
- Unique shock absorption and vibration damping properties
- Good conformability/softness for irregular or curved surfaces
- Applications: sign installation, POP displays, replaces mechanical fasteners in HVAC and appliances, decorative panels, LCD displays, data enclosures, hand held electronic assembly, seamless banner assembly

Pre-Cut Pieces On A Roll

Item No.	Series	Thickness in	Width in	Length in	Pieces/ Roll	Service Temp °F
475736	14	.045	1	1	1250	-20 to 240
475737	14	.045	1	2	1250	-20 to 240
475738	14	.045	1	3	1000	-20 to 240
475739	14	.045	1	4	1000	-20 to 240

Rolls

Item No.	Series	Thickness in	Width in	Length in	Service Temp °F
472951	21	.015	1/2	108	-20 to 300
472952	21	.015	3/4	108	-20 to 300
472953	21	.015	1	108	-20 to 300
475727	31	.025	1/2	216	-20 to 300
475728	31	.025	3/4	216	-20 to 300
475729	31	.025	1	216	-20 to 300
472945	14	.045	1/2	108	-20 to 240
472946	14	.045	3/4	108	-20 to 240
472947	14	.045	1	108	-20 to 240
475703	10	.062	1/2	108	-20 to 300
475704	10	.062	3/4	108	-20 to 300
475705	10	.062	1	108	-20 to 300
475694	18	.090	1/2	108	-20 to 240
475695	18	.090	3/4	108	-20 to 240
475696	18	.090	1	108	-20 to 240

Adhesive promoter: The component substrate determines whether an adhesive promoter should be used. Use of an adhesive promoter can allow a quicker initial and ultimate bond.

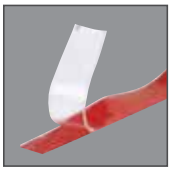
HASSLE-FREE SERVICE

Our teams of knowledgeable, dedicated employees are commited to providing a hassle-free experience from sampling and quoting through delivery. Call us today!

HIGH BOND TAPES

Duraco High Bond® Clear

ESSENTRA EXCLUSIVE



Specifications:
- Material: Acrylic foam with an acrylic adhesive
- Color: Clear
- Service Temperature: -20°F to 300°F

Features:
- High performance acrylic foam core tapes
- Aesthetically pleasing - create nearly invisible bond lines without welds, rivets, and screws
- Tamper resistant - permanent bond
- Excellent resistance to temperature cycles
- Unique shock absorption and vibration damping properties
- Good conformability/softness for irregular or curved surfaces
- Applications: sign installation, POP displays, replaces mechanical fasteners in HVAC and appliances, decorative panels, LCD displays, data enclosures, hand held electronic assembly, seamless banner assembly
- Perfect for glass or clear acrylic applications

Pre-Cut Pieces On A Roll

Item No.	Series	Thickness in	Width in	Length in	Pieces/ Roll
475730	23	.020	1	1	2500
475731	23	.020	1	2	2500
475732	23	.020	1	3	2000
475625	23	.020	1	4	2000
475733	34	.040	1	1	1250
475734	34	.040	1	2	1250
475735	34	.040	1	3	1000
475658	34	.040	1	4	1000

Rolls

Item No.	Series	Thickness in	Width in	Length in
475718	50	.010	1/2	180
475719	50	.010	3/4	180
475720	50	.010	1	180
472939	23	.020	1/2	216
472940	23	.020	3/4	216
472941	23	.020	1	216
472942	34	.040	1/2	108
472943	34	.040	3/4	108
472944	34	.040	1	108
475721	35	.060	1/2	108
475722	35	.060	3/4	108
475723	35	.060	1	108
475724	07	.080	1/2	54
475725	07	.080	3/4	54
475726	07	.080	1	54

Adhesive promoter: The component substrate determines whether an adhesive promoter should be used. Use of an adhesive promoter can allow a quicker initial and ultimate bond.

Duraco High Bond® White

ESSENTRA EXCLUSIVE

Specifications:
- Material: Acrylic foam with an acrylic adhesive
- Color: White
- Service Temperature: See Table

Features:
- High performance acrylic foam core tapes
- Aesthetically pleasing - create nearly invisible bond lines without unsightly welds, rivets, and screws
- Tamper resistant - permanent bond
- Excellent resistance to temperature cycles
- Unique shock absorption and vibration damping properties
- Good conformability/softness for irregular or curved surfaces
- Applications: sign installation, POP displays, replaces mechanical fasteners in HVAC and appliances, decorative panels, LCD displays, data enclosures, hand held electronic assembly, seamless banner assembly

Pre-Cut Pieces On A Roll

Item No.	Series	Thickness in	Width in	Length in	Service Temp °F	Pieces/ Roll
475740	40	.045	1	1	-20 to 240	1250
475741	40	.045	1	2	-20 to 240	1250
475742	40	.045	1	3	-20 to 240	1000
475743	40	.045	1	4	-20 to 240	1000

Duraco High Bond® White (continued)

ESSENTRA EXCLUSIVE

Rolls		Thickness	Width		Length
Item No.	Series	in	in	Service Temp °F	ft
475706	24	.010	1/2	-20 to 240	432
475707	24	.010	3/4	-20 to 240	432
475708	24	.010	1	-20 to 240	432
472954	56	.015	1/2	-20 to 240	108
472955	56	.015	3/4	-20 to 240	108
472956	56	.015	1	-20 to 240	108
472957	72	.025	1/2	-20 to 240	108
472958	72	.025	3/4	-20 to 240	108
472959	72	.025	1	-20 to 240	108
472948	40	.045	1/2	-20 to 240	108
472949	40	.045	3/4	-20 to 240	108
472950	40	.045	1	-20 to 240	108
475709	02	.062	1/2	-20 to 240	108
475710	02	.062	3/4	-20 to 240	108
475711	02	.062	1	-20 to 240	108
475712	04	.080	1/2	-20 to 240	108
475713	04	.080	3/4	-20 to 240	108
475714	04	.080	1	-20 to 240	108
475715	51	.120	1/2	-20 to 300	39
475716	51	.120	3/4	-20 to 300	39
475717	51	.120	1	-20 to 300	39

Adhesive promoter: The component substrate determines whether an adhesive promoter should be used. Use of an adhesive promoter can allow a quicker initial and ultimate bond.

Duraco High Bond® Black Rolls

ESSENTRA EXCLUSIVE

Specifications:
- Material: Acrylic foam with an acrylic adhesive
- Color: Black
- Service Temperature: -20°F to 200°F

Features:
- High performance acrylic foam core tapes
- Aesthetically pleasing - create nearly invisible bond lines without welds, rivets, and screws
- Tamper resistant - permanent bond
- Excellent resistance to temperature cycles
- Unique shock absorption and vibration damping properties
- Good conformability/softness for irregular or curved surfaces
- Applications: sign installation, POP displays, replaces mechanical fasteners in HVAC and appliances, decorative panels, LCD displays, data enclosures, hand held electronic assembly, seamless banner assembly

Rolls		Thickness	Width	Length	
Item No.	Series	in	in	ft	Service Temp °F
475697	09	.025	1/2	216	-20 to 200
475698	09	.025	3/4	216	-20 to 200
475699	09	.025	1	216	-20 to 200
472960	33	.025	1/2	108	-20 to 200
472961	33	.025	3/4	108	-20 to 200
472962	33	.025	1	108	-20 to 200
475700	16	.045	1/2	108	-20 to 200
475701	16	.045	3/4	108	-20 to 200
475702	16	.045	1	108	-20 to 200
472963	26	.045	1/2	108	-20 to 200
472964	26	.045	3/4	108	-20 to 200
472965	26	.045	1	108	-20 to 200

Adhesive promoter: The component substrate determines whether an adhesive promoter should be used. Use of an adhesive promoter can allow a quicker initial and ultimate bond.

TWIN STICK® FOAM TAPE

White Twin Stick® Foam Tape

Specifications:

- Adhesive: Rubber-based permanent on both sides (not recommended in applications with direct UV exposure)
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F
- Holding Power: 1 lb. per 1 sq. In of tape (conditions and variables in applications can produce different stresses and affect holding power)

Features:

- Available in various pre-cut thicknesses for quick installation
- Securely attaches to surfaces without drilling or mechanical fasteners
- Flexible foam carrier fills gaps, allowing irregular surfaces to be joined
- Aggressive rubber-based adhesive was designed to bond to many different types of surfaces including corrugate, chipboard, wood, low surface energy plastics, powder coated materials, UV coatings

White Pre-Cut Pieces On A Roll - 1/32" Thick

	Thickness	Width	Length	
Item No.	in	in	in	Pieces/Roll
470096	1/32	1/4	1/4	15000
470031	1/32	1/4	1/2	15000
470097	1/32	1/4	1	10000
501729	1/32	1/4	1-3/8	12500
472725	1/32	1/4	2	7500
472726	1/32	1/4	3	5000
472729	1/32	1/4	6	4000
500100	1/32	5/16	1-1/2	25000
470027	1/32	1/2	1/2	10000
470098	1/32	1/2	3/4	10000
470000	1/32	1/2	1	10000
472730	1/32	1/2	1-1/2	10000
470001	1/32	1/2	2	10000
472731	1/32	1/2	2-1/2	7500
470002	1/32	1/2	3	5000
472732	1/32	1/2	3-1/2	5000
470003	1/32	1/2	4	5000
472733	1/32	1/2	4-1/2	4000
470099	1/32	1/2	5	3000
470100	1/32	1/2	6	3000
470101	1/32	1/2	7	2000
470102	1/32	1/2	8	2000
470103	1/32	1/2	9	2000
470104	1/32	1/2	10	2000
470105	1/32	1/2	11	2000
470106	1/32	1/2	12	2000
470109	1/32	1/2	15	1500
475463	1/32	1/2	25	1000
470120	1/32	3/4	3/4	10000
470121	1/32	3/4	1	10000
472744	1/32	3/4	1-1/2	7500
470004	1/32	3/4	2	5000
472745	1/32	3/4	2-1/2	5000
470005	1/32	3/4	3	5000
472746	1/32	3/4	3-1/2	3500
470122	1/32	3/4	4	2500
470123	1/32	3/4	5	2000

(Continued in next column)

White Pre-Cut Pieces On A Roll - 1/32" Thick

	Thickness	Width	Length	
Item No.	in	in	in	Pieces/Roll
470124	1/32	3/4	6	2000
470125	1/32	3/4	7	2000
470126	1/32	3/4	8	2000
470127	1/32	3/4	9	2000
470128	1/32	3/4	10	1500
470130	1/32	3/4	12	1500
470133	1/32	3/4	15	1500
470135	1/32	3/4	17	1000
470138	1/32	3/4	20	750
470006	1/32	1	1	10000
470040	1/32	1	1	20000
472758	1/32	1	1-1/2	7500
470007	1/32	1	2	6300
472759	1/32	1	2-1/2	5000
470008	1/32	1	3	4000
472760	1/32	1	3-1/2	3000
470029	1/32	1	4	2500
472761	1/32	1	4-1/2	2000
470144	1/32	1	5	2000
472762	1/32	1	5-1/2	2000
470145	1/32	1	6	2000
470146	1/32	1	7	1500
470147	1/32	1	8	1500
470148	1/32	1	9	1500
470149	1/32	1	10	1000
470150	1/32	1	11	1000
470151	1/32	1	12	1000
470152	1/32	1	13	1000
470153	1/32	1	14	750
470154	1/32	1	15	750
470155	1/32	1	16	750
470156	1/32	1	17	750
470157	1/32	1	18	750
470158	1/32	1	19	500
470159	1/32	1	20	500
472773	1/32	1	24	500
472776	1/32	1-1/2	1-1/2	5000
470165	1/32	2	2	2000
474789	1/32	2	3	1500
475369	1/32	2	4	1500
472777	1/32	3	3	1500

White Twin Stick® Foam Tape (continued)

White Pre-Cut Pieces On A Roll - 1/16" Thick

Item No.	Thickness in	Width in	Length in	Pieces/Roll
475187	1/16	3/8	1	10000
470028	1/16	1/2	1/2	10000
470009	1/16	1/2	1	10000
470010	1/16	1/2	2	10000
472779	1/16	1/2	2-1/2	7500
470011	1/16	1/2	3	5000
470012	1/16	1/2	4	5000
470249	1/16	1/2	5	3000
470013	1/16	1/2	6	3000
470251	1/16	1/2	8	2000
470256	1/16	1/2	13	1500
470257	1/16	1/2	14	1500
470259	1/16	1/2	16	1500
470269	1/16	3/4	3/4	10000
470270	1/16	3/4	1	10000
472792	1/16	3/4	1-1/2	7500
470014	1/16	3/4	2	5000
472793	1/16	3/4	2-1/2	4000
500739	1/16	3/4	2-3/4	5000
470015	1/16	3/4	3	2500
470271	1/16	3/4	4	2500
472795	1/16	3/4	4-1/2	2000
470272	1/16	3/4	5	2000
470273	1/16	3/4	6	2000
470275	1/16	3/4	8	2000
470286	1/16	3/4	19	750
470016	1/16	1	1	10000
470038	1/16	1	1	20000
472806	1/16	1	1-1/2	7500

White Pre-Cut Pieces On A Roll - 1/16" Thick

Item No.	Thickness in	Width in	Length in	Pieces/Roll
475527	1/16	1	2	10000
475628	1/16	1	3	1000
470018	1/16	1	3	2500
470041	1/16	1	3	5000
472808	1/16	1	3-1/2	2500
470019	1/16	1	4	2500
470293	1/16	1	5	2000
470294	1/16	1	6	2000
470295	1/16	1	7	1500
470296	1/16	1	8	1500
470297	1/16	1	9	1000
470298	1/16	1	10	1000
470299	1/16	1	11	1000
470300	1/16	1	12	1000
470301	1/16	1	13	750
470302	1/16	1	14	750
470303	1/16	1	15	750
470304	1/16	1	16	750
470305	1/16	1	17	750
470306	1/16	1	18	500
470307	1/16	1	19	500
470308	1/16	1	20	500
470314	1/16	2	2	2000
475339	1/16	2	3	1500
475290	1/16	2	4	1500
472828	1/16	3	3	1000
474708	1/16	4	4	600

White Pre-Cut Pieces On A Roll - 1/8" Thick

Item No.	Thickness in	Width in	Length in	Pieces/Roll
472829	1/8	1/4	1/4	10000
470395	1/8	1/2	1/2	10000
470396	1/8	1/2	3/4	10000
470397	1/8	1/2	1	10000
470398	1/8	1/2	2	7500
470399	1/8	1/2	3	5000
1470400	1/8	1/2	4	5000
470408	1/8	3/4	3/4	5000
470409	1/8	3/4	1	5000
470020	1/8	3/4	2	5000
470410	1/8	3/4	4	1500
470412	1/8	3/4	6	1500
470413	1/8	3/4	7	1500
1470415	1/8	3/4	9	1500
470022	1/8	1	1	6500
470042	1/8	1	1	12000
472838	1/8	1	1-1/2	5000

White Pre-Cut Pieces On A Roll - 1/8" Thick

Item No.	Thickness in	Width in	Length in	Pieces/Roll
470023	1/8	1	2	2700
472839	1/8	1	2-1/2	2000
470024	1/8	1	3	2000
470039	1/8	1	3	3000
470025	1/8	1	4	2000
470418	1/8	1	5	1500
470419	1/8	1	6	1000
470420	1/8	1	7	1000
470421	1/8	1	8	1000
470423	1/8	1	10	1000
475336	1/8	1	2-1/2	2000
474569	1/8	1	20	500
475495	1/8	1	21	500
475278	1/8	1-1/2	18	400
472855	1/8	3	3	750
475365	1/8	4	4	400

White Pre-Cut Pieces On A Roll - 3/16" Thick

Item No.	Thickness in	Width in	Length in	Pieces/Roll
470034	3/16	1	1	5000
470073	3/16	3/4	3	2000
470476	3/16	1	2	2000
470477	3/16	1	3	1500

White Pre-Cut Pieces On A Roll - 1/4" Thick

Item No.	Thickness in	Width in	Length in	Pieces/Roll
474143	1/4	1/4	1/4	10000
472857	1/4	1/2	1/2	8000
470487	1/4	1/2	1	7500
470488	1/4	1/2	2	3000
474163	1/4	3/4	3/4	5000
470026	1/4	1	1	5000

White Pre-Cut Pieces On A Roll - 1/4" Thick

Item No.	Thickness in	Width in	Length in	Pieces/Roll
472858	1/4	1	1-1/2	3000
470502	1/4	1	2	2300
470033	1/4	1	3	1000
470503	1/4	1	4	1000
470504	1/4	1	5	1000
470505	1/4	1	6	750
470507	1/4	1	8	750

TWIN STICK® FOAM TAPE

Black Twin Stick® Foam Tape

Specifications:

- Adhesive: Rubber-based permanent on both sides (not recommended in applications with direct UV exposure)
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F
- Holding Power: 1 lb. per 1 sq. In of tape (conditions and variables in applications can produce different stresses and affect holding power)

Features:

- Available in various pre-cut thicknesses for quick installation
- Securely attaches to surfaces without drilling or mechanical fasteners
- Flexible foam carrier fills gaps, allowing irregular surfaces to be joined
- Aggressive rubber-based adhesive was designed to bond to many different types of surfaces including corrugate, chipboard, wood, low surface energy plastics, powder coated materials, UV coatings

Black Pre-Cut Pieces On A Roll - 1/32" Thick

	Thickness	Width	Length	
Item No.	in	in	in	Pieces/Roll
470553	1/32	1/2	1	10000
470554	1/32	1/2	2	10000
470555	1/32	1/2	3	5000
470556	1/32	1/2	4	5000
470558	1/32	1/2	6	3000
470562	1/32	1/2	10	2000
470569	1/32	3/4	2	5000
470570	1/32	3/4	3	5000
470573	1/32	3/4	6	2000
470518	1/32	1	1	20000

(Continued in next column)

Black Pre-Cut Pieces On A Roll - 1/32" Thick

	Thickness	Width	Length	
Item No.	in	in	in	Pieces/Roll
470583	1/32	1	2	6300
470584	1/32	1	3	4000
470585	1/32	1	4	2500
470586	1/32	1	5	2000
470587	1/32	1	6	2000
470589	1/32	1	8	1500
470591	1/32	1	10	1000
470593	1/32	1	12	1000
470594	1/32	1	13	1000

Black Pre-Cut Pieces On A Roll - 1/16" Thick

	Thickness	Width	Length	
Item No.	in	in	in	Pieces/Roll
470636	1/16	1/2	8	2000
470639	1/16	3/4	1	10000
470512	1/16	1	1	10000
470644	1/16	1	2	5000

(Continued in next column)

Black Pre-Cut Pieces On A Roll - 1/16" Thick

	Thickness	Width	Length	
Item No.	in	in	in	Pieces/Roll
470513	1/16	1	3	2500
470645	1/16	1	4	2500
470647	1/16	1	6	2000
470649	1/16	1	8	1500

Black Pre-Cut Pieces On A Roll - 1/8" Thick

	Thickness	Width	Length	
Item No.	in	in	in	Pieces/Roll
470686	1/8	1/2	1	10000
475498	1/8	34	1-1/2	5000
470704	1/8	3/4	9	1500
470706	1/8	1	1	6500
470514	1/8	1	2	2700
470708	1/8	1	3	2000

(Continued in next column)

Black Pre-Cut Pieces On A Roll - 1/8" Thick

	Thickness	Width	Length	
Item No.	in	in	in	Pieces/Roll
470709	1/8	1	4	2000
470711	1/8	1	6	1000
470712	1/8	1	7	1000
470713	1/8	1	8	1000
474413	1/8	1	11	1000
474306	1/8	2	2	2000

Black Pre-Cut Pieces On A Roll - 1/4" Thick

	Thickness	Width	Length	
Item No.	in	in	in	Pieces/Roll
475826	1/4	1/2	2	3000
502308	1/4	1/2	5	1500
502320	1/4	1	1	5000

(Continued in next column)

Black Pre-Cut Pieces On A Roll - 1/4" Thick

	Thickness	Width	Length	
Item No.	in	in	in	Pieces/Roll
502321	1/4	1	2	2300
502323	1/4	1	3	1000

TWIN STICK® FOAM TAPE

Twin Stick® Foam Tape Pads

Specifications:

- Adhesive: Rubber-based permanent on both sides (not recommended in applications with direct UV exposure)
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F
- Holding Power: 1 lb. per 1 sq. In of tape (conditions and variables in applications can produce different stresses and affect holding power)

Features:

- Pads are great for kits or when a job calls for smaller quantities
- Securely attaches to surfaces without drilling or mechanical fasteners
- Flexible foam carrier fills gaps, allowing irregular surfaces to be joined
- Aggressive rubber-based adhesive was designed to bond to many different types of surfaces including corrugate, chipboard, wood, low surface energy plastics, powder coated materials, UV coatings

White Pre-Cut Pieces In A Pad - 1/32" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470166	1/32	1/2	1/2	10	7500
470168	1/32	1/2	1	10	7500
470169	1/32	1/2	2	10	4000
470170	1/32	1/2	3	10	2500
470171	1/32	1/2	4	10	2000
470173	1/32	1/2	6	10	1500
470195	1/32	3/4	2	10	2500
500400	1/32	3/4	3	1	10000
470203	1/32	3/4	10	2	500
475024	1/32	1	1	1	5000
470219	1/32	1	1	10	4000
470220	1/32	1	2	10	2000

(Continued in next column)

White Pre-Cut Pieces In A Pad - 1/32" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
475107	1/32	1	3	1	3000
470221	1/32	1	3	10	1250
475165	1/32	1	4	2	2500
470222	1/32	1	4	10	1000
470223	1/32	1	5	5	750
470224	1/32	1	6	5	600
470239	1/32	1	21	2	170
470241	1/32	1	23	2	1800
470242	1/32	1	24	2	170
470244	1/32	2	2	4	900

White Pre-Cut Pieces On A Roll - 1/16" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
501060	1/16	1/2	2-1/2	2	25000
501630	1/16	3/4	3/4	4	10000
501138	1/16	1	1	2	20000
470368	1/16	1	1	10	4000
470369	1/16	1	2	10	2000
470370	1/16	1	3	10	1250

(Continued in next column)

White Pre-Cut Pieces On A Roll - 1/16" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470371	1/16	1	4	10	1000
470377	1/16	1	10	2	400
470390	1/16	1	23	2	170
500077	1/16	1-1/2	1-1/2	1	19250
470393	1/16	2	2	4	900
475836	1/16	8-1/2	11	1	200

White Pre-Cut Pieces In A Pad - 3/16"

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
473465	3/16	1/2	1-1/2	10	8400

Black Pre-Cut Pieces In A Pad - 1/32" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470619	1/32	1	1	10	4000
470621	1/32	1	3	10	1250

White Pre-Cut Pieces In A Pad - 1/8" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470427	1/8	1/2	1	10	6000
470450	1/8	1	1	10	3000
470451	1/8	1	2	10	1500
470452	1/8	1	3	10	1000
470453	1/8	1	4	10	750
470455	1/8	1	6	5	500

White Pre-Cut Pieces In A Pad - 1/4"

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
474191	1/4	3/4	2-3/4	1	6000
470510	1/4	1	1	10	2200
470511	1/4	1	3	10	780

TWIN STICK® DIAMETERS and THICK TWIN STICK® FOAM TAPE

Twin Stick® Foam Tape Diameters

Specifications:
- Adhesive: Rubber-based permanent on both sides (not recommended in applications with direct UV exposure)
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F
- Holding Power: 1 lb. per 1 sq. In of tape (conditions and variables in applications can produce different stresses and affect holding power)

Features:
- Diameters provide the best coverage for applications with rounded edges
- Securely attaches to surfaces without drilling or mechanical fasteners
- Flexible foam carrier fills gaps, allowing irregular surfaces to be joined
- Aggressive rubber-based adhesive was designed to bond to many different types of surfaces including corrugate, chipboard, wood, low surface energy plastics, powder coated materials, UV coatings

White Diameters On A Roll

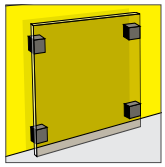
Item No.	Thickness in	Width in	Pieces/Roll	Pieces/Carton
472715	1/32	1/2	5000	10000
475829	1/32	3/8	10000	20000
472718	1/32	3/4	4000	8000
472721	1/32	1	3000	6000
472724	1/32	1-1/4	2000	4000
502335	1/32	1-1/2	2000	4000
502436	1/16	3/8	10000	20000
472716	1/16	1/2	5000	10000
472719	1/16	3/4	4000	8000
472722	1/16	1	3000	6000
502336	1/16	1-1/2	2000	4000
472717	1/8	1/2	3000	6000

Black Diameters On A Roll

Item No.	Thickness in	Width in	Pieces/Roll	Pieces/Carton
502432	1/32	1/2	5000	10000
502440	1/32	3/4	4000	8000

Thick Twin Stick® Foam Blocks

ESSENTRA EXCLUSIVE



Specifications:
- Adhesive: Rubber-based permanent on both sides (not recommended in applications with direct UV exposure)
- Color: White or Black
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:
- Foam blocks with permanent adhesive on both sides to create a lasting 3-D effect
- Bonds to various surfaces including corrugate, chipboard, wood, low surface energy plastics, powder coated materials, UV coatings
- Applications: For lightweight applications or filling gaps, adds 3-D effects

White Pre-Cut Pieces On A Roll

Item No.	Thickness in	Width in	Length in	Pieces/Roll
472859	3/8	1	1	4000
472860	3/8	1	2	2000
472861	3/8	1	3	1100
472865	1/2	1/2	1	5000
470030	1/2	1	1	3000
470044	1/2	1	2	1800
470032	1/2	1	3	1200
470047	1/2	2	2	900
470049	1/2	3	3	300

Black Pre-Cut Pieces On A Roll

Item No.	Thickness in	Width in	Length in	Pieces/Roll
470515	1/2	1	1	3000
470523	1/2	1	3	1200

THICK TWIN STICK® FOAM TAPE

Thick Twin Stick® Foam Blocks

ESSENTRA EXCLUSIVE

Specifications:

- Adhesive: Rubber-based permanent on both sides (not recommended in applications with direct UV exposure)
- Color: White or Black
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:

- Foam blocks with permanent adhesive on both sides to create a lasting 3-D effect
- Bonds to various surfaces including corrugate, chipboard, wood, low surface energy plastics, powder coated materials, UV coatings
- Use black thick Twin Stick® on dark backgrounds
- Place foam blocks 1"-2" from the edge of dimensional graphics to create a clean 3-D effect
- Applications: For lightweight applications or filling gaps, adds 3-D effects

White Pre-Cut Pieces In A Pad

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470043	1/2	1	1	12	2400
470045	1/2	1	2	10	1000
470046	1/2	1	3	4	800
470048	1/2	2	2	4	600
472866	3/4	3/4	1	24	2400
470037	3/4	1	1	36	4320
470051	3/4	1	2	18	3600
470052	3/4	1	3	12	1800
470053	3/4	2	2	9	1800
470035	1	1	1	36	2520
470036	1	1	1	36	6012
470055	1	1	2	18	2898
470056	1	1	3	12	1440

(Continued in next column)

White Pre-Cut Pieces In A Pad

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
472864	1	1	4	20	2000
470057	1	1	6	6	1002
470058	1	1	9	1	660
470059	1	1	12	1	520
470060	1	2	2	9	1440
470061	1	3	3	4	600
470062	1-1/4	1	1	36	4608
470064	1-1/4	1	3	12	1200
470065	1-1/2	1	1	36	3420
470067	1-1/2	1	3	12	900
470068	1-1/2	1-1/2	1-1/2	12	1440
470069	1-3/4	1-1/2	1-1/2	12	1200
470070	2	1-1/2	1-1/2	12	1200
470071	2	2	2	1	840

Black Pre-Cut Pieces In A Pad

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470520	1/2	1	1	12	2400
470522	1/2	1	2	10	1000
470524	1/2	1	3	4	800
470529	3/4	1	1	36	4320
470530	3/4	1	2	18	3600
470519	1	1	1	36	2520
470516	1	1	1	36	6012
470534	1	1	2	18	2898
470535	1	1	3	12	1440
470539	1	2	2	9	1440
470540	1	3	3	4	600
470544	1-1/2	1	1	36	3420
470547	1-1/2	1-1/2	1-1/2	12	1440
470549	2	1-1/2	1-1/2	12	1200
470550	2	2	2	1	840

DUBL KOTE® FOAM TAPE

Dubl Kote® Foam Tape

Specifications:

- Adhesive: Rubber-based permanent on both sides (not recommended in applications with direct UV exposure)
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F
- Holding Power: 1 lb. per 1 sq. inch of tape (variable in applications can produce different stresses and affect holding power)

Features:

- Versatile double-sided foam tape ideal for hand or automatic application
- Flexible for filling spaces and conformable for joining irregular spaces
- Rubber-based adhesive that is "quick-stick" with extremely aggressive tack and high shear strength
- Designed to bond to many different types of surfaces including corrugate, chipboard, wood, plastics including low surface energy, powder coated materials, glass

White Short Rolls - 1½" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
471365	1/32	1/2	30	72
502613	1/32	1/2	54	180
501737	1/32	1/2	108	80
471366	1/32	3/4	30	45
471367	1/32	1	30	36

(Continued in next column)

White Short Rolls - 1½" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
471369	1/16	3/4	30	25
500931	1/16	3/4	108	13
471370	1/16	1	30	20
500930	1/16	1	108	10

White Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
475845	1/32	3/16	216	64
471355	1/32	1/4	216	48
472230	1/32	1/4	216	12
471346	1/32	3/8	216	32
472231	1/32	3/8	216	12
471339	1/32	1/2	216	24
472232	1/32	1/2	216	12
471340	1/32	3/4	216	16
500595	1/32	21/32	216	19
501699	1/32	11/16	216	18
471341	1/32	1	216	12
473607	1/32	1-1/4	216	10
471374	1/32	1-1/2	216	8
471375	1/32	2	216	6
473618	1/32	2-1/2	216	5
473617	1/32	3-1/2	216	5
473626	1/32	13-1/2	216	1
502626	1/32	23	216	1
473608	1/32	24	216	1
473613	1/32	27	216	1
501918	1/32	28	216	1
471377	1/16	1/4	216	48
472229	1/16	1/4	216	12
471342	1/16	1/2	216	24
472233	1/16	1/2	216	12

(Continued in next column)

White Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
473594	1/16	3/8	216	32
471343	1/16	3/4	216	16
471344	1/16	1	216	12
473609	1/16	1-3/8	216	9
471356	1/16	1-1/2	216	8
475542	1/16	1-5/8	216	7
471378	1/16	2	216	6
471379	1/16	3	216	4
473610	1/16	10	216	1
473625	1/16	24	216	1
471357	1/8	1/2	108	24
472234	1/8	1/2	108	12
472870	1/8	5/8	108	19
471345	1/8	3/4	108	16
471353	1/8	1	108	12
471380	1/8	2	108	6
471381	1/8	3	108	4
501917	1/8	3-1/2	108	7
471382	3/16	1/2	75	20
471384	3/16	1	75	10
471385	1/4	1/2	50	20
471386	1/4	3/4	50	13
471387	1/4	1	50	10

Black Short Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
501260	1/32	48	108	1

Black Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
473675	1/32	3/16	216	64
471400	1/32	1/4	216	48
472221	1/32	1/4	216	12
471397	1/32	3/8	216	32
472225	1/32	3/8	216	12
471394	1/32	1/2	216	24
472223	1/32	1/2	216	12
471395	1/32	3/4	216	16
471399	1/32	1	216	12
473674	1/32	1-1/4	216	10
471401	1/32	1-1/2	216	8
471402	1/32	2	216	6
473681	1/32	2-1/2	216	5
471403	1/32	3	216	4

(Continued in next column)

Black Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
472874	1/32	12	216	1
473685	1/32	13-1/2	216	1
471406	1/16	1/4	216	48
472222	1/16	1/4	216	12
473671	1/16	3/8	216	32
471396	1/16	1/2	216	24
472224	1/16	1/2	216	12
471407	1/16	3/4	216	16
471408	1/16	1	216	12
471409	1/16	1-1/2	216	8
471410	1/16	2	216	6
471415	1/8	1/2	108	24
471416	1/8	3/4	108	16
471417	1/8	1	108	12
472876	1/8	1-1/2	108	8

Dubl Kote® Foam Tape (continued)

White Long Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
473650	1/32	1/4	432	24
471350	1/32	3/8	900	20
502375	1/32	15/32	1050	16
471363	1/32	1/2	1050	16
471358	1/32	1/2	1500	9
472880	1/32	5/8	1050	13
502504	1/32	23/32	1050	11
476057	1/32	3/4	1050	11
471360	1/32	3/4	1500	7
476058	1/32	1	1050	8
471359	1/32	1	1500	5
473635	1/32	1-1/4	900	6
501081	1/32	1-3/8	900	5
501334	1/32	1-3/4	900	4
473648	1/32	2	900	3
473632	1/16	3/8	450	32
471347	1/16	1/2	450	24
471362	1/16	1/2	750	10
471348	1/16	3/4	450	16
471349	1/16	1	450	12
471361	1/16	1	750	5
472877	1/8	1/2	300	11
472879	1/8	1	300	5
472881	1/4	1	100	7
472882	1/4	2	100	3

Longest rolls in the industry with 1/4" and 1/8" thickness

Black Long Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
473716	1/32	3/8	450	24
473677	1/32	3/8	900	20
471398	1/32	1/2	900	16
500661	1/32	5/8	450	16

(Continued in next column)

Black Long Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
471404	1/32	3/4	1050	11
471405	1/32	1	1050	8
471412	1/16	1/2	450	24
471413	1/16	3/4	450	16
471414	1/16	1	450	12

Dubl Kote® Acrylic Foam Tape

Specifications:

- Adhesive: Acrylic-based permanent on both sides, identified with black printed liner
- Color: White or Black, see table
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:

- Versatile double-sided foam tape ideal for hand or automatic application
- Flexible for filling spaces
- Conformable for joining irregular spaces
- Gradual adhesion bulid up
- UV and Plasticizer resistant

White Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
472595	1/32	1/4	216	12
472597	1/32	3/8	216	12
472599	1/32	1/2	216	12
472600	1/32	1/2	216	24
472601	1/32	3/4	216	16
472602	1/32	1	216	12
472606	1/16	1/4	216	12

(Continued in next column)

White Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
472607	1/16	1/4	216	48
472608	1/16	1/2	216	12
472610	1/16	3/4	216	16
472611	1/16	1	216	12
472613	1/16	2	216	6
472615	1/8	1/2	108	12
472618	1/8	1	108	12

White Long Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
472623	1/32	1/2	1050	16
472624	1/32	1/2	1500	9
472628	1/32	1	1500	5

Black Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
472634	1/32	1/2	216	24
472635	1/32	3/4	216	16
472636	1/32	1	216	12
472637	1/16	1/2	216	24
472639	1/16	1	216	12

REMO ONE® FOAM TAPE

Remo One® Foam Tape Pads

Specifications:
- Adhesive: permanent rubber-based on one side, removable adhesive on mounting side
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F rubber-based and removable adhesive
- Holding Power: 1/2 lb. per sq. in. of tape (conditions and variables in applications can produce different stresses and affect holding power)
- Intended for one time use

Features:
- Removes cleanly from most hard, non-delaminating surfaces even after an extended period
- Pads are great to include in kits with temporary signs

White Pre-Cut Pieces In A Pad - 1/32" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
473926	1/32	1/2	1/2	10	50000
470812	1/32	1/2	1	10	7500
470813	1/32	1/2	2	10	4000
470814	1/32	1/2	3	10	2500
470815	1/32	1/2	4	10	2000
470820	1/32	3/4	3	10	1750

(Continued in next column)

White Pre-Cut Pieces In A Pad - 1/32" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470824	1/32	1	1	10	4000
470825	1/32	1	2	10	2000
470826	1/32	1	3	10	1250
470827	1/32	1	4	10	1000
470828	1/32	1	5	5	750
470829	1/32	1	10	2	400

White Pre-Cut Pieces In A Pad - 1/16" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470844	1/16	1/2	1	10	7500
470845	1/16	1/2	2	10	4000
470846	1/16	1/2	3	10	2500
470849	1/16	1/2	10	2	750
470850	1/16	3/4	1	10	5000
470851	1/16	3/4	2	10	2500

(Continued in next column)

White Pre-Cut Pieces In A Pad - 1/16" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470856	1/16	1	1	10	4000
470857	1/16	1	2	10	2000
470858	1/16	1	3	10	1250
470859	1/16	1	4	10	1000
470860	1/16	1	5	5	750
470861	1/16	1	10	2	400

White Pre-Cut Pieces In A Pad - 1/8" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470884	1/8	1	1	10	3000
473910	1/8	1	1	8	22000

(Continued in next column)

White Pre-Cut Pieces In A Pad - 1/8" Thick

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470886	1/8	1	3	10	1000
473956	3/16	1/2	1	6	10000

Black Pre-Cut Pieces In A Pad

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
471004	1/16	1	1	10	4000

White Remo One® Foam Tape Diameters

Specifications:
- Adhesive: permanent rubber-based on one side, removable adhesive on mounting side
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F rubber-based and removable adhesive
- Holding Power: 1/2 lb. per sq. in. of tape (conditions and variables in applications can produce different stresses and affect holding power)
- Intended for one time use

Features:
- Removes cleanly from most hard, non-delaminating surfaces even after an extended period
- Diameters are perfect for applications with rounded edges

White Pre-Cut Diameters On A Roll

Item No.	Thickness in	Diameter in	Pieces/ Roll	Pieces/ Carton
502457	1/32	1/2	5000	10000
502445	1/32	3/4	4000	8000
475837	1/32	1	3000	6000

(Continued in next column)

White Pre-Cut Diameters On A Roll

Item No.	Thickness in	Diameter in	Pieces/ Roll	Pieces/ Carton
502452	1/16	1/2	5000	10000
475839	1/16	1	3000	6000
502137	1/8	1-1/2	1500	3000

Remo One® Foam Tape

Removes cleanly with no residue

Specifications:

- Adhesive: permanent rubber-based on one side, removable adhesive on mounting side
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F rubber-based and removable adhesive
- Holding Power: 1/2 lb. per sq. in. of tape (conditions and variables in applications can produce different stresses and affect holding power)
- Intended for one time use

Features:

- Aggressive permanent adhesive on one side and removable adhesive on the other
- Removes cleanly from most hard, non-delaminating surfaces even after an extended period

White Pre-Cut Pieces On A Roll - 1/32" Thick

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
473847	1/32	1/2	1/2	10000
470797	1/32	1/2	1	10000
473863	1/32	1/2	1-1/2	10000
470798	1/32	1/2	2	10000
470799	1/32	1/2	3	5000
470800	1/32	1/2	4	5000
470801	1/32	1/2	5	3000
472892	1/32	1/2	6	3000
472894	1/32	1/2	8	2500
470802	1/32	1/2	10	2000
473855	1/32	3/4	3/4	10000
470803	1/32	3/4	1	10000
470804	1/32	3/4	2	5000
470805	1/32	3/4	3	5000
470806	1/32	3/4	4	2500

(Continued in next column)

White Pre-Cut Pieces On A Roll - 1/32" Thick

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
470807	1/32	3/4	5	2000
472896	1/32	3/4	6	2000
472897	1/32	3/4	7	2000
472899	1/32	3/4	9	1500
470808	1/32	3/4	10	1500
470754	1/32	1	1	6000
470748	1/32	1	2	6000
470755	1/32	1	3	2500
470809	1/32	1	4	2500
470810	1/32	1	5	2000
472900	1/32	1	6	2000
472901	1/32	1	7	1500
472902	1/32	1	8	1500
472903	1/32	1	9	1000
470811	1/32	1	10	1000

White Pre-Cut Pieces On A Roll - 1/16" Thick

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
473778	1/16	1/2	1/2	10000
470830	1/16	1/2	1	10000
470831	1/16	1/2	2	10000
470832	1/16	1/2	3	5000
470833	1/16	1/2	4	5000
470834	1/16	1/2	5	3000
472904	1/16	1/2	6	3000
472905	1/16	1/2	7	2500
473851	1/16	3/4	3/4	10000
470836	1/16	3/4	1	10000
470837	1/16	3/4	2	5000
470838	1/16	3/4	3	2500
470839	1/16	3/4	4	2500

(Continued in next column)

White Pre-Cut Pieces On A Roll - 1/16" Thick

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
470840	1/16	3/4	5	2000
472908	1/16	3/4	6	2000
470749	1/16	1	1	5000
473862	1/16	1	1-1/2	7500
470750	1/16	1	2	5000
470751	1/16	1	3	2500
470756	1/16	1	4	2000
470842	1/16	1	5	2000
472912	1/16	1	6	2000
472913	1/16	1	7	1500
472914	1/16	1	8	1500
472915	1/16	1	9	1000
470843	1/16	1	10	1000

White Pre-Cut Pieces On A Roll - 1/8" Thick

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
470864	1/8	1/2	3	5000
470757	1/8	1	1	5000
470752	1/8	1	2	2500
470753	1/8	1	3	2000
470872	1/8	1	4	2000
470873	1/8	1	5	1500
472924	1/8	1	6	1500
472925	1/8	1	7	1500
472926	1/8	1	8	1000

White Pre-Cut Pieces On A Roll - 1/4" Thick

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
475844	1/4	1/2	1	7500
472928	1/4	1	1	5000
475502	1/4	1	2	2300
502131	1/4	1	3	1000

Black Pre-Cut Pieces On A Roll

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
470952	1/32	1	3	2500
473722	1/32	1	5	4000

(Continued in next column)

Black Pre-Cut Pieces On A Roll

Item No.	Thickness in	Width in	Length ft	Rolls/Carton
470986	1/16	1	1	5000
470988	1/16	1	3	2500
471020	1/8	1	1	6500

REMO ONE® FOAM TAPE

Remo One® Foam Tape Rolls

Specifications:
- Adhesive: permanent rubber-based on one side, removable adhesive on mounting side
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F rubber-based and removable adhesive
- Holding Power: 1/2 lb. per sq. in. of tape (conditions and variables in applications can produce different stresses and affect holding power)
- Intended for one time use

Features:
- Removes cleanly from most hard, non-delaminating surfaces even after an extended period

White Short Rolls - 1½" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
471444	1/32	1/2	30	72
471446	1/32	1	30	36
471449	1/16	1	30	20

White Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
471435	1/32	1/2	216	24
472226	1/32	1/2	216	12
471439	1/32	3/4	216	16
471436	1/32	1	216	12
471437	1/16	1/2	216	24
472227	1/16	1/2	216	12

(Continued in next column)

White Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
471440	1/16	3/4	216	16
471438	1/16	1	216	12
471441	1/8	1/2	108	24
471442	1/8	3/4	108	16
471443	1/8	1	108	12

White Long Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
472883	1/32	1/2	900	16
472884	1/16	1/2	450	24

Black Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
471453	1/32	1/2	216	12
471454	1/32	1	216	12

(Continued in next column)

Black Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
471455	1/16	1/2	216	12
471456	1/16	1	216	12

Thick Remo One® Foam Blocks

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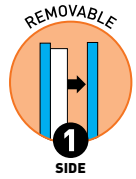

Specifications:
- Adhesive: Permanent rubber-based on one side, removable adhesive on mounting side
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F rubber-based and removable adhesive

Features:
- Removable foam blocks can create 3-D effects
- Intended for one-time use

White Pre-Cut Pieces On A Roll

Item No.	Thickness in	Width in	Length in	Pieces/Roll
470758	1/2	1	1	3000
470760	1/2	1	2	1800
470762	1/2	1	3	1200

Black Pre-Cut Pieces On A Roll

Item No.	Thickness in	Width in	Length in	Pieces/Roll
470889	1/2	1	1	3000

White Pre-Cut Pieces In A Pad

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470759	1/2	1	1	12	2400
470773	1	1	1	36	6012
470775	1	1	3	12	1440

Black Pre-Cut Pieces In A Pad

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
470890	1/2	1	1	12	2400
470914	1-1/2	1	3	12	900

REMO TWO® FOAM TAPE

White Remo Two® Foam Tape

Specifications:
- Adhesive: Removable adhesive on both sides (not recommended in applications with direct UV exposure)
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F rubber-based and removable adhesive

Features:
- Double-sided adhesive foam tape with removable adhesive on both sides
- Removes cleanly from most hard, non-delaminating surfaces even after extended periods of time and leaves no residue

White Pre-Cut Pieces On A Roll - 1/32" Thick

Item No.	Thickness in	Width in	Length ft	Pieces/ Roll
471089	1/32	1/2	1	10000
471090	1/32	1/2	2	10000
471091	1/32	1/2	3	5000
471093	1/32	1/2	5	3000
471095	1/32	3/4	1	10000

(Continued in next column)

White Pre-Cut Pieces On A Roll - 1/32" Thick

Item No.	Thickness in	Width in	Length ft	Pieces/ Roll
471097	1/32	3/4	3	5000
471101	1/32	1	1	6000
471102	1/32	1	2	6000
471103	1/32	1	3	2500
471104	1/32	1	4	2500
471105	1/32	1	5	2000

White Pre-Cut Pieces On A Roll - 1/16" Thick

Item No.	Thickness in	Width in	Length ft	Pieces/ Roll
471125	1/16	1/2	1	10000
471126	1/16	1/2	2	10000
471127	1/16	1/2	3	5000
471132	1/16	3/4	2	5000
471133	1/16	3/4	3	2500

(Continued in next column)

White Pre-Cut Pieces On A Roll - 1/16" Thick

Item No.	Thickness in	Width in	Length ft	Pieces/ Roll
471135	1/16	3/4	5	2000
471040	1/16	1	1	5000
471137	1/16	1	2	5000
471041	1/16	1	3	2500
471138	1/16	1	4	2000
471139	1/16	1	5	2000
471140	1/16	1	10	1000

White Pre-Cut Pieces On A Roll - 1/8" Thick

Item No.	Thickness in	Width in	Length ft	Pieces/ Roll
471042	1/8	1	1	5000
471169	1/8	1	2	2700
471170	1/8	1	3	2000

White Pre-Cut Pieces On A Roll - 1/4" Thick

Item No.	Thickness in	Width in	Length ft	Pieces/ Roll
472887	1/4	1	1	5000

White Remo Two® Foam Tape Pads

Specifications:
- Adhesive: Removable adhesive on both sides (not recommended in applications with direct UV exposure)
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F rubber-based and removable adhesive

Features:
- Double-sided adhesive foam tape with removable adhesive on both sides
- Removes cleanly from most hard, non-delaminating surfaces even after extended periods of time and leaves no residue

White Pre-Cut Pieces In A Pad

Item No.	Thickness in	Width in	Length ft	Pieces/ Pad	Pieces/ Carton
471107	1/32	1/2	1	10	7500
471108	1/32	1/2	2	10	4000
471111	1/32	1/2	5	10	1500
471113	1/32	3/4	1	10	5000
471119	1/32	1	1	10	4000
471120	1/32	1	2	10	2000
471121	1/32	1	3	10	1250
471152	1/16	3/4	10	2	500

(Continued in next column)

White Pre-Cut Pieces In A Pad

Item No.	Thickness in	Width in	Length ft	Pieces/ Pad	Pieces/ Carton
471153	1/16	1	1	10	4000
471154	1/16	1	2	10	2000
471155	1/16	1	3	10	1250
471156	1/16	1	4	10	1000
471158	1/16	1	10	2	400
471183	1/8	1	1	10	3000
471184	1/8	1	2	10	1500
471185	1/8	1	3	10	1000

REMO TWO® FOAM TAPE

Remo Two® Foam Tape Rolls

Specifications:
- Adhesive: Removable adhesive on both sides (not recommended in applications with direct UV exposure)
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F rubber-based and removable adhesive

Features:
- Double-sided adhesive foam tape with removable adhesive on both sides
- Removes cleanly from most hard, non-delaminating surfaces even after extended periods of time and leaves no residue

White Short Rolls - 1½" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
471476	1/32	1	30	36
471477	1/16	1/2	30	40

(Continued in next column)

White Short Rolls - 1½" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
471478	1/16	3/4	30	25
471479	1/16	1	30	20

White Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
471465	1/32	1/2	216	12
471466	1/32	3/4	216	16
471467	1/32	1	216	12
471468	1/16	1/2	216	12

(Continued in next column)

White Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
471469	1/16	3/4	216	16
471470	1/16	1	216	12
471471	1/8	1/2	108	12
471472	1/8	3/4	108	16
471473	1/8	1	108	12

Black Standard Rolls - 3" Diameter Core

Item No.	Thickness in	Width in	Length ft	Rolls/ Carton
471485	1/16	1/2	216	12
471486	1/16	1	216	12
471488	1/8	1	108	12

Remo Two® Clear Foam Tape

Specifications:
- Adhesive: Removable acrylic-based adhesive on both sides
- Color: Clear
- Application Temperature: 65°F to 100°F
- Service Temperature: 40°F to 175°F

Features:
- Double-sided clear tape with removable adhesive on both sides
- Removes cleanly from most hard, non-delaminating surfaces

Clear Rolls

Item No.	Thickness in	Width in	Length ft
477180	1/32	1/2	216
477181	1/32	3/4	216
477182	1/32	1	216

Pre-Cut Pieces On A Roll

Item No.	Thickness in	Width in	Length in	Pieces/ Roll
477183	1/32	1	1	1250
477184	1/32	1	2	1250
477185	1/32	1	3	1000
477186	1/32	1	4	1000

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THICK REMO TWO® FOAM BLOCKS

White Thick Remo Two® Foam Blocks

Specifications:
- Adhesive: Removable on both sides
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F rubber-based and removable adhesive

Features:
- Double-sided adhesive foam block to create 3-D effects
- Removable adhesive lifts cleanly from most hard non-delaminating surfaces even after extended periods of time

REMOVABLE 2 SIDES

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White Pre-Cut Pieces On A Roll

Item No.	Thickness in	Width in	Length in	Pieces/ Roll
471043	1/2	1	1	3000

White Pre-Cut Pieces In A Pad

Item No.	Thickness in	Width in	Length in	Pieces/ Pad	Pieces/ Carton
471044	1/2	1	1	12	2400

White Individual Pieces

Item No.	Thickness in	Width in	Length in	Pieces/ Carton
471053	3/4	1	1	4320
471058	1	1	1	6012

(Continued in next column)

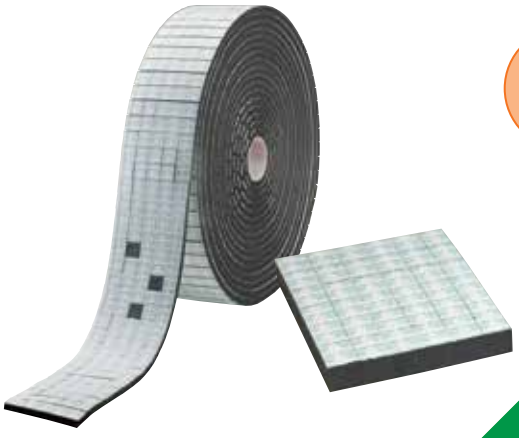
White Individual Pieces

Item No.	Thickness in	Width in	Length in	Pieces/ Carton
471066	1-1/2	1	1	3420
471072	2	2	2	840

Black Thick Remo Two® Foam Blocks

Specifications:
- Adhesive: Removable on both sides
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F rubber-based and removable adhesive

Features:
- Double-sided adhesive foam block to create 3-D effects
- Removable adhesive lifts cleanly from most hard non-delaminating surfaces even after extended periods of time
- Use black foam blocks on dark backgrounds for a clean look



REMOVABLE 2 SIDES

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Black Pre-Cut Pieces On A Roll

Item No.	Thickness in	Width in	Length in	Pieces/ Roll
471188	1/2	1	1	3000

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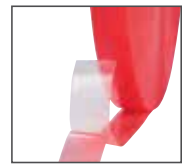
FILM TAPE

Red Film Tapes



Specifications:
- Adhesive: Modified acrylic
- Color: Clear
- Thickness: 8 mil (adhesive with carrier)
- Application Temperature: 65°F to 100°F
- Service Temperature: -14°F to 300°F

Features:
- High performance, clear, double sided tapes designed for hard to stick applications
- Strong plasticizer resistance
- Tolerates high temperature applications and sticks well to UV coatings
- Clarity keeps graphics sharp and readable - no yellow or foggy appearance
- Pre-cut pieces to save time with hand applications
- Rolls up to 750 ft length for automatic applications

Clear Pre-Cut Pieces On A Roll - 3" Core Diameter

Item No.	Width in	Length in	Pieces/ Roll	Pieces/ Carton
476657	1/2	1	7500	15000
476658	1/2	2	5000	10000
476659	1/2	3	2500	5000
476660	1/2	4	2500	5000
476661	1/2	5	1500	3000
476662	3/4	1	5000	10000
476663	3/4	2	2500	5000
476664	3/4	3	2500	5000

(Continued in next column)

Clear Pre-Cut Pieces On A Roll - 3" Core Diameter

Item No.	Width in	Length in	Pieces/ Roll	Pieces/ Carton
476665	3/4	4	1250	2500
476666	3/4	5	1000	2000
476667	1	1	5000	10000
476668	1	2	2500	5000
476669	1	3	2000	4000
476670	1	4	1250	2500
476671	1	5	1000	2000

Standard Rolls - 3" Core Diameter

Item No.	Width in	Length ft	Rolls/ Carton
476647	3/8	180	64
476648	1/2	180	48
476649	3/4	180	32

(Continued in next column)

Standard Rolls - 3" Core Diameter

Item No.	Width in	Length ft	Rolls/ Carton
476650	1	180	24
476651	2	180	12
476652	3	180	8

Long Rolls - 3" Core Diameter

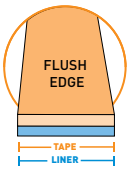
Item No.	Width in	Length ft	Rolls/ Carton
476653	3/8	750	14
476654	1/2	750	12

(Continued in next column)

Long Rolls - 3" Core Diameter

Item No.	Width in	Length ft	Rolls/ Carton
476655	3/4	750	9
476656	1	750	6

Gold 9970 Film Tape



Specifications:
- Adhesive: Acrylic-based permanent on both sides
- Backing: PVC film
- Color: White
- Thickness: 9 mils
- Application Temperature: 65°F to 100°F
- Service Temperature: 14°F to 176°F

Features:
- PVC film carrier double-sided tape with excellent adhesion properties
- Works well on textured or irregular suraces due to extra thickness of film
- Conformable and thinner than foam

Standard Rolls

Item No.	Width in	Length ft	Roll Diameter In	Rolls/ Carton
476017	3/8	180	6-5/8	48
476018	1/2	180	6-5/8	36

(Continued in next column)

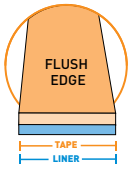
Standard Rolls

Item No.	Width in	Length ft	Roll Diameter In	Rolls/ Carton
476019	3/4	180	6-5/8	24
476020	1	180	6-5/8	18
476021	2	180	6-5/8	9

Gold 9970 Film Tape (continued)

Specifications:
- Adhesive: Acrylic-based permanent on both sides
- Backing: PVC film
- Color: White
- Thickness: 9 mils
- Application Temperature: 65°F to 100°F
- Service Temperature: 14°F to 176°F

Features:
- PVC film carrier double-sided tape with excellent adhesion properties
- Works well on textured or irregular suraces due to extra thickness of film
- Conformable and thinner than foam



Long Rolls

Item No.	Width in	Length in	Roll Diameter in	Rolls/ Carton
476024	3/4	750	12-1/4	8
476025	1	750	12-1/4	6

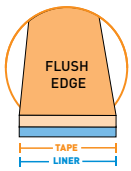
Pre-Cut Pieces On A Roll

Item No.	Width in	Length ft	Roll Diameter in	Rolls/ Carton
476026	1/2	1	7500	15000
476033	3/4	3	2500	5000
476040	1	5	1000	2000

DK Film® Tape Rolls

Specifications:
- Adhesive: Rubber-based permanent on both sides (not recommended for direct UV exposure
- Application Temperature: 40°F to 90°F
- Service Temperature: -20°F to 190°F
- Thickness: 0.5 mil film, 1.25 mil to 2 mil adhesive on each side

Features:
- Provides the tack of permanent rubber-based adhesive without the thickness of foam
- Good initial tack "Quick-Stick"
- Two available thicknesses allow for greater flexibility in your application
- Rolls up to 3000 feet in length are designed to improve efficiencies in automatic applications



Standard Rolls

Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
473013	3.0	1/2	180	5-3/4	48
473014	3.0	3/4	180	5-3/4	32
473015	3.0	1	180	5-3/4	24
473016	3.0	2	180	5-3/4	12
472885	4.5	1/4	180	6-5/8	64
471707	4.5	3/8	180	6-5/8	40

(Continued in next column)

Standard Rolls

Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
471710	4.5	1/2	180	6-5/8	48
471712	4.5	3/4	180	6-5/8	32
471713	4.5	1	180	6-5/8	24
471715	4.5	2	180	6-5/8	12
471716	4.5	3	180	6-5/8	8
471717	4.5	12	180	6-5/8	4

Long Rolls

Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
473017	3.0	1/2	1000	10-13/16	18
473021	3.0	1/2	3000	18-3/16	12
473018	3.0	3/4	1000	10-13/16	12
473022	3.0	3/4	3000	18-3/16	4
473019	3.0	1	1000	10-13/16	9
473023	3.0	1	3000	18-3/16	6

(Continued in next column)

Long Rolls

Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
473020	3.0	2	1000	10-13/16	4
471708	4.5	3/8	750	12-1/8	14
471709	4.5	1/2	1500	17	12
471711	4.5	3/4	1500	17	8
471714	4.5	1	750	12-1/8	6
471717	4.5	12	180	6-5/8	4

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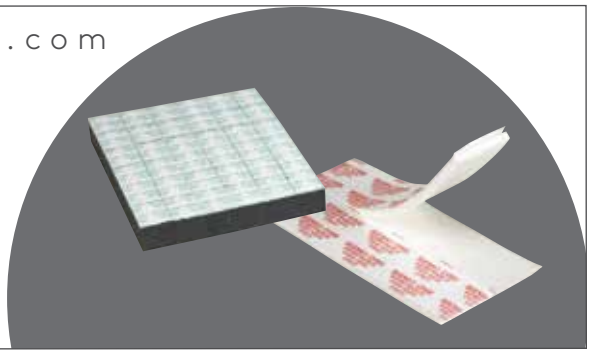


FILM TAPE

DK Film® Tape Pre-Cut Pieces On A Roll

Specifications:
- Adhesive: Rubber-based permanent on both sides (not recommended for direct UV exposure
- Application Temperature: 40°F to 90°F
- Service Temperature: -20°F to 190°F
- Thickness: 0.5 mil film, 1.25 mil to 2 mil adhesive on each side

Features:
- Provides the tack of permanent rubber-based adhesive without the thickness of foam
- Good initial tack "Quick-Stick"
- Two available thicknesses allow for greater flexibility in your application

Pre-Cut Pieces On A Roll - 1/2" Width

Item No.	Adhesive + Carrier mil	Width in	Length in	Pieces/ Roll	Pieces/ Carton
471718	4.5	1/2	1	10000	20000
471719	4.5	1/2	2	10000	20000
471720	4.5	1/2	3	5000	10000
471721	4.5	1/2	4	5000	10000

(Continued in next column)

Pre-Cut Pieces On A Roll - 1/2" Width

Item No.	Adhesive + Carrier mil	Width in	Length in	Pieces/ Roll	Pieces/ Carton
471722	4.5	1/2	5	3000	6000
471723	4.5	1/2	6	3000	6000
471724	4.5	1/2	7	2000	4000
471727	4.5	1/2	10	2000	4000

Pre-Cut Pieces On A Roll - 3/4" Width

Item No.	Adhesive + Carrier mil	Width in	Length in	Pieces/ Roll	Pieces/ Carton
471743	4.5	3/4	1	10000	20000
471744	4.5	3/4	2	5000	10000
471745	4.5	3/4	3	5000	10000
471746	4.5	3/4	4	2500	5000
471747	4.5	3/4	5	2000	4000
471748	4.5	3/4	6	2000	4000

(Continued in next column)

Pre-Cut Pieces On A Roll - 3/4" Width

Item No.	Adhesive + Carrier mil	Width in	Length in	Pieces/ Roll	Pieces/ Carton
471751	4.5	3/4	9	2000	4000
471752	4.5	3/4	10	1500	3000
471753	4.5	3/4	11	1500	3000
471756	4.5	3/4	14	1500	3000
471758	4.5	3/4	16	1000	2000

Pre-Cut Pieces On A Roll - 1" Width

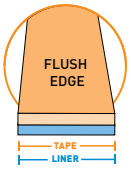
Item No.	Adhesive + Carrier mil	Width in	Length in	Pieces/ Roll	Pieces/ Carton
471768	4.5	1	1	10000	20000
471769	4.5	1	2	6300	12,600
471770	4.5	1	3	4000	8000
471771	4.5	1	4	2500	5000
471772	4.5	1	5	2000	4000
471773	4.5	1	6	2000	4000
471774	4.5	1	7	1500	3000
471775	4.5	1	8	1500	3000
471776	4.5	1	9	1500	3000
471777	4.5	1	10	1000	2000

(Continued in next column)

Pre-Cut Pieces On A Roll - 1" Width

Item No.	Adhesive + Carrier mil	Width in	Length in	Pieces/ Roll	Pieces/ Carton
471778	4.5	1	11	1000	2000
471779	4.5	1	12	1000	2000
471780	4.5	1	13	1000	2000
471781	4.5	1	14	750	1500
471782	4.5	1	15	750	1500
471783	4.5	1	16	750	1500
471785	4.5	1	18	750	1500
471786	4.5	1	19	750	1500
471787	4.5	1	20	750	1500

DK Film® Acrylic Film Tape Rolls



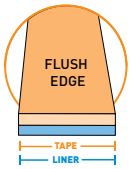
Specifications:
- Adhesive: Acrylic-based permanent on both sides
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 275°F
- Thickness: 0.5 mil film, 1.65 mil adhesive on each side

Features:
- Ideal for demanding indoor and moderate outdoor applications
- Acrylic benefits include good shear strength, high temperature resistance, good UV and weather resistance, good adhesion to flexible plastics

Standard Rolls

Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
472522	3.8	3/8	180	6-5/8	40
472523	3.8	1/2	180	6-5/8	48
472525	3.8	1	180	6-5/8	24
472526	3.8	2	180	6-5/8	12
472527	3.8	3	180	6-5/8	8

DK Film® Hi-Tack Acrylic Film Tape Rolls



Specifications:
- Adhesive: Acrylic-based permanent on both sides
- Backing: PET film
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 275°F
- Thickness: 0.5 mil film, 1.5 mil adhesive on each side

Features:
- Performs in the most demanding applications with good initial tack
- High performing long-term adhesive bond
- Excellent UV resistance
- Good plasticizer resistance

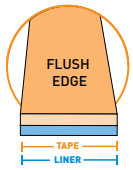
Standard Rolls

Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
473037	3.5	1/2	180	5-7/8	48
473039	3.5	1	180	5-7/8	24

Long Rolls

Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
473043	3.5	1	1000	11-5/8	9

Remo One® Film Tape Rolls



Specifications:
- Adhesive: Rubber-based permanent on the exposed side, removable adhesive on the liner side
- Application Temperature: 65°F to 100°F
- Service Temperature: -20°F to 150°F

Features:
- Double-sided adhesive film tape with aggressive permanent adhesive on the exposed side and removable adhesive on the liner side
- Removable side is identified with red printed liner
- Removes cleanly from most hard non-delaminating surfaces even after extended periods of time
- Long rolls are ideal for automatic applications

Standard Rolls

Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
472708	4.4	3/8	180	6-11/16	40
472709	4.4	1/2	180	6-11/16	48

(Continued in next column)

Standard Rolls

Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
472710	4.4	3/4	180	6-11/16	32
472711	4.4	1	180	6-11/16	24
472712	4.4	2	180	6-11/16	12

Long Rolls

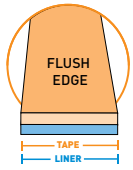
Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
472488	4.4	3/8	750	12	14
472489	4.4	1/2	1500	17-1/16	12

(Continued in next column)

Long Rolls

Item No.	Adhesive + Carrier mil	Width in	Length ft	Roll Diameter in	Rolls/ Carton
472490	4.4	3/4	1500	17-1/16	8
472491	4.4	1	750	12	6

Remo One® Film Tape Pieces



Pre-Cut Pieces On A Roll

Item No.	Adhesive + Carrier mil	Width in	Length in	Pieces/ Roll	Pieces/ Carton
472492	4.4	1/2	1	7500	15000
472493	4.4	1/2	2	5000	10000
472494	4.4	1/2	3	2500	5000
472495	4.4	1/2	4	2500	5000
472501	4.4	1/2	10	1000	2000

(Continued in next column)

Pre-Cut Pieces On A Roll

Item No.	Adhesive + Carrier mil	Width in	Length in	Pieces/ Roll	Pieces/ Carton
472512	4.4	1	1	5000	10000
472513	4.4	1	2	2500	5000
472514	4.4	1	3	2000	4000
472515	4.4	1	4	1250	2500
472521	4.4	1	10	500	1000

FIBER, WIRE & CABLE MANAGEMENT

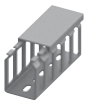
CABLE CLAMPS & CLIPS ..... 178 - 199

TWIST TIES ..... 195 - 197

WIRE SADDLES ..... 200 - 207

FLAT CABLE CLAMPS & CLIPS ..... 207 - 212

CABLE TIES, STRAPS & MOUNTS ..... 213 - 234


CABLE DUCT, CONDUIT & WRAPS ..... 235 - 239

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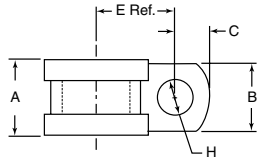
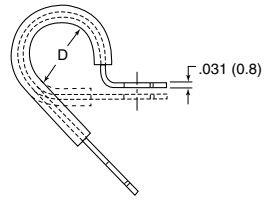
FIBER, WIRE & CABLE MANAGEMENT

CABLE CLAMPS

SPN/SPNW Series
Steel Clamp with Rubber Cushion



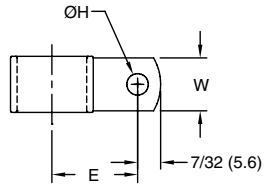


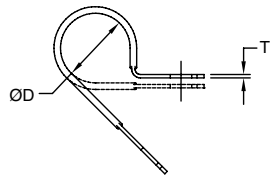
Specifications:
- Material: Cold Rolled Steel, Zinc Electroplated, Elastomer Cushion
- Color: Steel with Black Cushion

Features:
- Provides electrical insulation and vibration absorption
- Ideal for long-life applications

Item No.	Ø D Holding		Ø H Hole		B		A		E Ref.		C		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
SPN-3	3/16	4.8	0.266	6.7	0.500	12.7	0.650	16.5	0.500	12.7	0.260	6.6	500
SPN-4	1/4	6.4	0.266	6.7	0.500	12.7	0.650	16.5	0.530	13.5	0.260	6.6	500
SPNW-4	1/4	6.4	0.406	10.3	0.625	15.9	0.750	19.1	0.530	13.5	0.313	7.9	100
SPN-5	5/16	7.9	0.266	6.7	0.500	12.7	0.650	16.5	0.560	14.2	0.260	6.6	500
SPNW-5	5/16	7.9	0.406	10.3	0.625	15.9	0.750	19.1	0.560	14.2	0.313	7.9	100
SPN-6	3/8	9.5	0.266	6.7	0.500	12.7	0.650	16.5	0.590	15	0.260	6.6	500
SPNW-6	3/8	9.5	0.406	10.3	0.625	15.9	0.750	19.1	0.590	15	0.313	7.9	100
SPN-7	7/16	11.1	0.266	6.7	0.500	12.7	0.650	16.5	0.620	15.7	0.260	6.6	500
SPNW-7	7/16	11.1	0.406	10.3	0.625	15.9	0.750	19.1	0.620	15.7	0.313	7.9	100
SPN-8	1/2	12.7	0.266	6.7	0.500	12.7	0.650	16.5	0.650	16.5	0.260	6.6	500
SPNW-8	1/2	12.7	0.406	10.3	0.625	15.9	0.750	19.1	0.650	16.5	0.313	7.9	100
SPN-9	9/16	14.3	0.266	6.7	0.500	12.7	0.650	16.5	0.750	19.1	0.260	6.6	500
SPN-10	5/8	15.9	0.266	6.7	0.500	12.7	0.650	16.5	0.780	19.8	0.260	6.6	500
SPNW-10	5/8	15.9	0.406	10.3	0.625	15.9	0.750	19.1	0.780	19.8	0.313	7.9	100
SPN-11	11/16	17.5	0.266	6.7	0.500	12.7	0.650	16.5	0.810	20.6	0.260	6.6	500
SPNW-11	11/16	17.5	0.406	10.3	0.625	15.9	0.750	19.1	0.810	20.6	0.313	7.9	100
SPN-12	3/4	19.1	0.266	6.7	0.500	12.7	0.650	16.5	0.840	21.3	0.260	6.6	500
SPN-14	7/8	22.2	0.266	6.7	0.500	12.7	0.650	16.5	0.900	22.9	0.260	6.6	100
SPNW-14	7/8	22.2	0.406	10.3	0.625	15.9	0.750	19.1	0.900	22.9	0.313	7.9	100
SPN-16	1	25.4	0.266	6.7	0.500	12.7	0.650	16.5	0.960	24.4	0.260	6.6	100
SPNW-16	1	25.4	0.406	10.3	0.625	15.9	0.750	19.1	0.960	24.4	0.313	7.9	100
SPN-18	1-1/8	28.6	0.266	6.7	0.500	12.7	0.650	16.5	1.050	26.7	0.260	6.6	100
SPN-20	1-1/4	31.8	0.266	6.7	0.500	12.7	0.650	16.5	1.110	28.2	0.260	6.6	100
SPNW-20	1-1/4	31.8	0.406	10.3	0.625	15.9	0.750	19.1	1.110	28.2	0.313	7.9	100

NE Series
Aluminum Clamp with Vinyl Coating



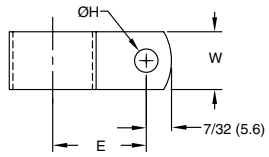


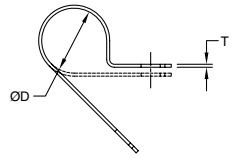
Specifications:
- Material: Aluminum Alloy 5052 H-32, TPV Coating
- Color: Aluminum with Black Coating

Features:
- Vinyl coating allows a more permanent solution for protecting cables against vibration
- Screw mount area is bare to ensure firm tightening

Item No.	Ø D Holding		Ø H Hole		W		E Ref.		T		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
NE3	3/16	4.8	0.204	5.2	0.375	9.5	0.50	12.7	1/32	0.8	1000
NE4	1/4	6.4	0.204	5.2	0.375	9.5	0.53	13.5	1/32	0.8	1000
NE5	5/16	7.9	0.204	5.2	0.375	9.5	0.56	14.2	1/32	0.8	1000
NE6	3/8	9.5	0.204	5.2	0.375	9.5	0.59	15.0	1/32	0.8	1000
NE7	7/16	11.1	0.204	5.2	0.375	9.5	0.62	15.7	1/32	0.8	1000
NE8	1/2	12.7	0.204	5.2	0.375	9.5	0.65	16.5	1/32	0.8	1000
NE9	9/16	14.3	0.204	5.2	0.375	9.5	0.75	19.1	1/32	0.8	1000
NE10	5/8	15.9	0.204	5.2	0.375	9.5	0.78	19.8	1/32	0.8	1000
NE11	11/16	17.5	0.204	5.2	0.500	12.7	0.81	20.6	1/16	1.6	500
NE12	3/4	19.1	0.204	5.2	0.500	12.7	0.84	21.3	1/16	1.6	500
NE14	7/8	22.2	0.204	5.2	0.500	12.7	0.90	22.9	1/16	1.6	500
NE16	1	25.4	0.204	5.2	0.500	12.7	0.96	24.4	1/16	1.6	500
NE18	1-1/8	28.6	0.204	5.2	0.500	12.7	1.05	26.7	1/16	1.6	500
NE20	1-1/4	31.8	0.204	5.2	0.500	12.7	1.11	28.2	1/16	1.6	500

AL Series
Aluminum Clamp





Specifications:
- Material: Aluminum Alloy 5052 H-32
- Color: Aluminum

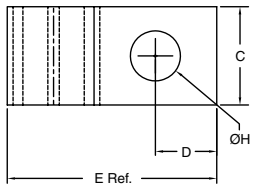
Features:
- Corrosion resistant
- Protects and holds cable, wire, hoses and loom

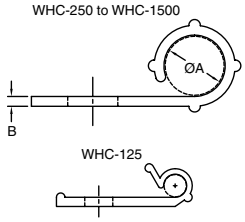
Item No.	Ø D Holding		Ø H Hole		W		E Ref.		T		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
AL2A	1/8	3.2	0.204	5.2	0.375	9.5	0.46	11.7	1/32	0.8	1000
AL3A	3/16	4.8	0.204	5.2	0.375	9.5	0.50	12.7	1/32	0.8	1000
AL4A	1/4	6.4	0.204	5.2	0.375	9.5	0.53	13.5	1/32	0.8	1000
AL5A	5/16	7.9	0.204	5.2	0.375	9.5	0.56	14.2	1/32	0.8	1000
AL6A	3/8	9.5	0.204	5.2	0.375	9.5	0.59	15.0	1/32	0.8	1000
AL7A	7/16	11.1	0.204	5.2	0.375	9.5	0.62	15.7	1/32	0.8	1000
AL8A	1/2	12.7	0.204	5.2	0.375	9.5	0.65	16.5	1/32	0.8	1000
AL9A	9/16	14.3	0.204	5.2	0.375	9.5	0.75	19.1	1/32	0.8	1000
AL10A	5/8	15.9	0.204	5.2	0.375	9.5	0.78	19.8	1/32	0.8	1000
AL11	11/16	17.5	0.204	5.2	0.500	12.7	0.81	20.6	1/32	0.8	500
AL12	3/4	19.1	0.204	5.2	0.500	12.7	0.84	21.3	1/32	0.8	500
AL14	7/8	22.2	0.204	5.2	0.500	12.7	0.90	22.9	1/32	0.8	500
AL16	1	25.4	0.204	5.2	0.500	12.7	0.96	24.4	1/16	1.6	500
AL18	1-1/8	28.6	0.204	5.2	0.500	12.7	1.05	26.7	1/16	1.6	500
AL20	1-1/4	31.8	0.204	5.2	0.500	12.7	1.11	28.2	1/16	1.6	500

WHC Series
Wire Harness Clamp

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

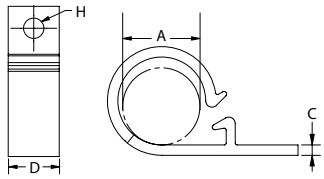
Features:
- Can be preinstalled to chassis with cables inserted at a later time
- Cables can be removed for wiring changes or replacements





Item No.			Ø A Holding		Ø H Hole		C		B		D		E Ref.		Bulk Pack Qty
Natural	Black	Approval	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
WHC-125-01	WHC-125-01BK		0.125	3.2	0.156	4.0	0.330	8.4	0.050	1.3	0.23	5.8	0.750	19.1	1000
WHC-250-01	WHC-250-01BK		0.250	6.4	0.204	5.2	0.400	10.2	0.040	1.0	0.25	6.4	0.830	21.1	1000
WHC-375-01	WHC-375-01BK		0.375	9.5	0.204	5.2	0.400	10.2	0.050	1.3	0.19	4.8	0.830	21.1	1000
WHC-500-01	WHC-500-01BK		0.500	12.7	0.204	5.2	0.400	10.2	0.070	1.8	0.25	6.4	1.156	29.4	1000
WHC-625-01	WHC-625-01BK		0.625	15.9	0.204	5.2	0.500	12.7	0.080	2.0	0.19	4.8	1.125	28.6	1000
WHC-750-01	WHC-750-01BK		0.750	19.1	0.204	5.2	0.500	12.7	0.090	2.2	0.19	4.8	1.281	32.5	1000
WHC-1000-01	WHC-1000-01BK		1.000	25.4	0.204	5.2	0.500	12.7	0.090	2.2	0.19	4.8	1.531	38.9	500
WHC-1500-01	WHC-1500-01BK		1.500	38.1	0.204	5.2	0.500	12.7	0.100	2.5	0.19	4.8	2.125	53.9	500

EXWHC Series
Wire Harness Clamp



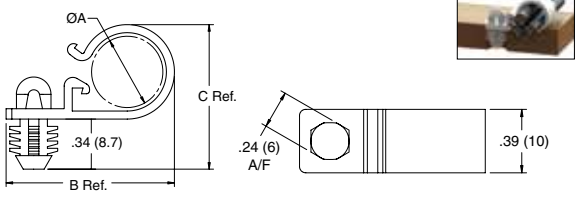
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Cables are easily inserted into clamp and locked in place
- Cables can be removed for wiring change or replacements

Item No.	Ø A Holding		Ø H Hole		C		D Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
EXWHC2-250-01*	0.250	6.4	0.156	4.0	0.039	1.0	0.394	10.0	1000
EXWHC2-500-01	0.500	12.7	0.156	4.0	0.075	1.9	0.394	10.0	1000
EXWHC2-750-01	0.708	18.0	0.156	4.0	0.075	1.9	0.500	12.7	1000

*** No latch feature**

BHLWHC Series
Blind Hole Mounted Clamp

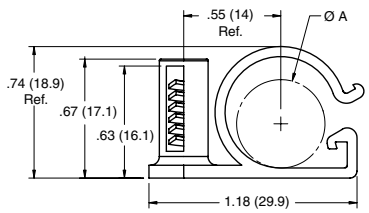


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Easily pushed into mounting hole using a standard 6mm hexagonal socket pressed onto mounting head
- Releasable and reusable for easy wire bundling

Item No.	Ø A Holding		Ø Mounting Hole		B Ref.		C Ref.		Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
BHLWHC-500-01	0.500	12.7	0.312	7.9	1.150	29.3	1.000	25.4	0.250	6.4	1000
BHLWHC-750-01	0.750	19.1	0.312	7.9	1.440	36.5	1.340	34.1	0.250	6.4	1000

SMWHC Series
Stud Mount Wire Harness Clip



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Installed by pushing clamp onto an exposed screw or stud
- No protrusion under the chassis
- Fits several different threads; M4, M5, #8, or #10

Item No.	Ø A Holding		Mounting Method	Bulk Pack Qty
	in	mm		
SMWHC-500-01	0.500	12.7	Push onto a #8, #10, M4 or M5 Screw or Stud	500

CABLE CLAMPS

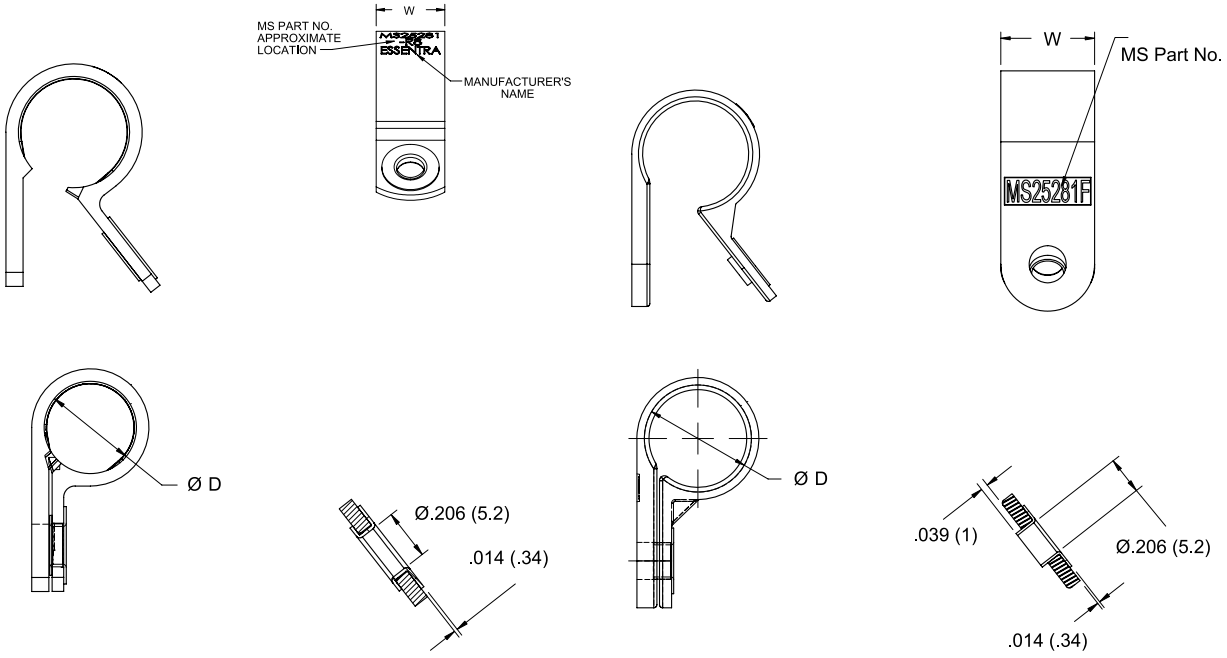
NM-MS25281 Series
Heavy Duty Support Clamp

Specifications:

- Material: UL94 V-2 Heat Stabilized Nylon, conforms to MIL-M-20693/ASTM D-4066 Eyelet: Aluminum, anodized in accordance with MIL-A-8625
- Color: Green

Features:

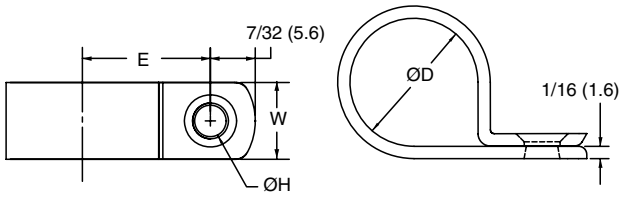
- Qualified to MS25281
- Strong and durable part design built for heavy duty cable applications
- NM-R series has a rib running around the inside of the clamp to grip bundle; NM-F series has no rib inside clamp
- NM-R eyelet is crimped to the top leg; the NM-F eyelet's legs protrude all the way through the bottom hole



NM-R **NM-F**

Item No.	MS Part Number	Ø D Holding in	Ø D Holding mm	Recommended Mounting Screw	W in	W mm	E in	E mm	Bulk Pack Qty
NM-3-R3	MS25281-R3	3/16	4.8	#10 or M5	0.503	12.8	0.485	12.3	500
NM-4-R4	MS25281-R4	1/4	6.4	#10 or M5	0.503	12.8	0.510	13.0	500
NM-5-R5	MS25281-R5	5/16	7.9	#10 or M5	0.503	12.8	0.546	13.9	500
NM-6-R6	MS25281-R6	3/8	9.5	#10 or M5	0.503	12.8	0.578	14.7	500
NM-7-R7	MS25281-R7	7/16	11.1	#10 or M5	0.503	12.8	0.608	15.4	500
NM-8-R8	MS25281-R8	1/2	12.7	#10 or M5	0.503	12.8	0.639	16.2	500
NM-9-R9	MS25281-R9	9/16	14.3	#10 or M5	0.503	12.8	0.661	16.8	500
NM-10-R10	MS25281-R10	5/8	15.9	#10 or M5	0.553	14.1	0.706	17.9	500
NM-11-R11	MS25281-R11	11/16	17.5	#10 or M5	0.553	14.1	0.785	19.9	500
NM-12-R12	MS25281-R12	3/4	19.1	#10 or M5	0.553	14.1	0.816	20.7	500
NM-13-R13	MS25281-R13	13/16	20.6	#10 or M5	0.553	14.1	0.827	21.0	500
NM-14-R14	MS25281-R14	7/8	22.2	#10 or M5	0.553	14.1	0.878	22.3	500
NM-16-R16	MS25281-R16	1	25.4	#10 or M5	0.553	14.1	0.941	23.9	500
NM-18-R18	MS25281-R18	1-1/8	28.6	#10 or M5	0.553	14.1	0.983	25.0	500
NM-20-R20	MS25281-R20	1-1/4	31.8	#10 or M5	0.553	14.1	1.006	27.1	100
NM-22-R22	MS25281-R22	1-3/8	34.9	#10 or M5	0.553	14.1	1.110	28.2	100
NM-24-R24	MS25281-R24	1-1/2	38.1	#10 or M5	0.553	14.1	1.170	29.7	100
NM-26-R26	MS25281-R26	1-5/8	41.3	#10 or M5	0.553	14.1	1.250	31.8	100
NM-28-R28	MS25281-R28	1-3/4	44.5	#10 or M5	0.553	14.1	1.300	33.0	100
NM-3-F3	MS25281-F3	3/16	4.8	#10 or M5	0.500	12.7	0.498	12.6	500
NM-4-F4	MS25281-F4	1/4	6.4	#10 or M5	0.500	12.7	0.529	13.4	500
NM-5-F5	MS25281-F5	5/16	7.9	#10 or M5	0.500	12.7	0.560	14.2	500
NM-6-F6	MS25281-F6	3/8	9.5	#10 or M5	0.500	12.7	0.592	15.0	500
NM-7-F7	MS25281-F7	7/16	11.1	#10 or M5	0.500	12.7	0.623	15.8	500
NM-8-F8	MS25281-F8	1/2	12.7	#10 or M5	0.500	12.7	0.654	16.6	500
NM-10-F10	MS25281-F10	5/8	15.9	#10 or M5	0.600	15.2	0.783	19.9	500
NM-13-F13	MS25281-F13	13/16	20.6	#10 or M5	0.600	15.2	0.877	22.3	500

N/NB/CCL Series
Cable Clamp

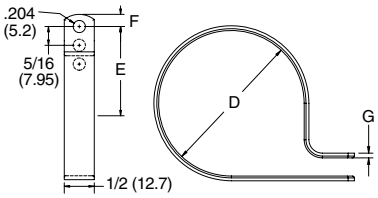


Specifications:
- Material: Nylon 6/6
- Color: See Table

Features:
- Designed to secure wires and cables in place
- Clamp down and screw clamp to chassis to secure

Item No.			Ø D Holding		Ø H Hole		W		E Ref.		Bulk Pack Qty
Natural UL94 V-2	Black UL94 V-2	Natural UL94 V-0	in	mm	in	mm	in	mm	in	mm	
N-1	N-1-BK	N-1-19	0.063	1.6	0.125	3.2	0.375	9.5	0.270	6.9	1000
N-2	N-2-BK	N-2-19	0.125	3.2	0.172	4.4	0.375	9.5	0.328	8.3	1000
CCL001A	—	—	0.125	3.2	0.188	4.8	0.377	9.6	0.374	9.5	100
N-2B	N-2B-BK	N-2B-19	0.125	3.2	0.204	5.2	0.500	12.7	0.328	8.3	1000
N-3	N-3-BK	N-3-19	0.188	4.7	0.172	4.4	0.375	9.5	0.391	9.9	1000
CCL002A	—	—	0.188	4.7	0.188	4.7	0.377	9.6	0.413	10.5	100
N-3B	N-3B-BK	N-3B-19	0.188	4.7	0.204	5.2	0.500	12.7	0.391	9.9	1000
N-4	N-4-BK	N-4-19	0.250	6.4	0.172	4.4	0.375	9.5	0.422	10.7	1000
CCL003A	—	—	0.250	6.4	0.181	4.6	0.393	10.0	0.394	10.0	100
N-4B	N-4B-BK	N-4B-19	0.250	6.4	0.204	5.2	0.500	12.7	0.422	10.7	1000
N-5	N-5-BK	N-5-19	0.313	7.9	0.172	4.4	0.375	9.5	0.453	11.5	1000
CCL004A	—	—	0.313	7.9	0.181	4.6	0.393	10.0	0.472	12.0	100
N-5B	N-5B-BK	N-5B-19	0.313	7.9	0.204	5.2	0.500	12.7	0.453	11.5	1000
N-6	N-6-BK	N-6-19	0.375	9.5	0.172	4.4	0.375	9.5	0.484	12.3	1000
CCL005A	—	—	0.375	9.5	0.181	4.6	0.472	12.0	0.492	12.5	100
N-6B	N-6B-BK	N-6B-19	0.375	9.5	0.204	5.2	0.500	12.7	0.484	12.3	1000
N-7	N-7-BK	N-7-19	0.438	11.1	0.172	4.4	0.375	9.5	0.531	13.5	1000
N-7B	N-7B-BK	N-7B-19	0.438	11.1	0.204	5.2	0.500	12.7	0.531	13.5	1000
N-8	N-8-BK	N-8-19	0.500	12.7	0.172	4.4	0.375	9.5	0.563	14.3	1000
CCL006A	—	—	0.500	12.7	0.196	5.0	0.472	12.0	0.598	15.2	100
N-8B	N-8B-BK	N-8B-19	0.500	12.7	0.204	5.2	0.500	12.7	0.563	14.3	1000
N-9B	N-9B-BK	N-9B-19	0.563	14.3	0.204	5.2	0.500	12.7	0.594	15.0	1000
CCL007A	—	—	0.625	15.9	0.181	4.6	0.472	12.0	0.717	18.8	100
N-10B	N-10B-BK	N-10B-19	0.625	15.9	0.204	5.2	0.500	12.7	0.625	15.9	1000
N-11B	N-11B-BK	N-11B-19	0.688	17.5	0.204	5.2	0.500	12.7	0.656	16.7	1000
CCL008A	—	—	0.750	19.1	0.181	4.6	0.463	11.8	0.717	18.8	100
N-12B	N-12B-BK	N-12B-19	0.750	19.1	0.204	5.2	0.500	12.7	0.766	19.4	1000
N-14B	N-14B-BK	N-14B-19	0.875	22.2	0.204	5.2	0.500	12.7	0.813	20.6	500
CCL009A	—	—	1.000	25.4	0.181	4.6	0.472	12.0	0.866	22.0	100
N-16B	N-16B-BK	N-16B-19	1.000	25.4	0.204	5.2	0.500	12.7	0.906	23.0	500
CCL010A	—	—	1.062	27.0	0.181	4.6	0.472	12.0	0.945	24.0	100
N-18B	N-18B-BK	N-18B-19	1.125	28.6	0.204	5.2	0.500	12.7	0.969	24.6	500
CCL011A	—	—	1.250	31.8	0.181	4.6	0.472	12.0	1.031	26.2	100
CCL012A	—	—	1.446	36.7	0.181	4.6	0.472	12.0	1.181	30.0	100

NB-3 Series
Adjustable Cable Clamp

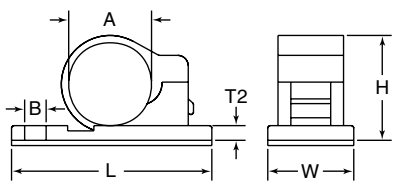


Specifications:
- Material: See Table
- Color: See Table

Features:
- Adjustable design allows you to bundle multiple diameters of wires and cables while securing in place

Item No.			Ø D Holding						E Ref.		F		G		Bulk Pack Qty
UL94 V-2 Nylon 6/6		UL94 V-0 Nylon 6/6	Inside Hole		Center Hole		Outside Hole								
Natural	Black	Natural	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
N-20B	N-20B-BK	N-20B-19	1	25.4	1-1/8	28.6	1.2	30.2	0.906	23.0	0.219	5.6	0.063	1.6	500
N-24B	N-24B-BK	N-24B-19	1-1/4	31.8	1-3/8	34.9	1.47	37.3	1.031	26.2	0.219	5.6	0.063	1.6	500
N-32B	N-32B-BK	N-32B-19	1-3/4	44.5	1-7/8	47.6	2.0	50.8	1.453	36.9	0.203	5.2	0.065	1.7	500

CCA Series
Adhesive Mount Cable Clamps



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Fixed diameter clamp range
- Can be mounted with adhesive tape backing or via screw mounting hole

Item No.	Ø A Holding		Ø B Hole		T2		L		W		H		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
CCA001A	0.22	5.5	0.197	5.0	0.118	3.0	1.02	25.8	0.53	13.4	0.48	12.2	100
CCA002A	0.30	7.5	0.197	5.0	0.126	3.2	1.13	28.8	0.53	13.4	0.57	14.5	100
CCA003A	0.47	12.0	0.209	5.3	0.118	3.0	1.37	34.8	0.65	16.5	0.73	18.5	100
CCA004A	0.55	14.0	0.197	5.0	0.126	3.2	1.44	36.5	0.65	16.4	0.77	19.5	100
CCA005A	0.59	15.0	0.197	5.0	0.106	2.7	1.50	38.2	0.63	16.0	0.80	20.3	100
CCA006A	0.67	17.0	0.189	4.8	0.122	3.1	1.63	41.3	0.61	15.6	0.98	25.0	100

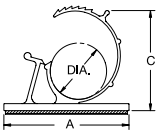
CABLE CLAMPS

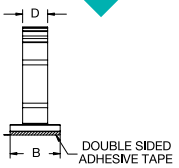
AKKL Series
Adhesive Mount Adjustable Clamp

EXPANDED LINE

Specifications:
- Material: Nylon 6/6
- Color: Natural

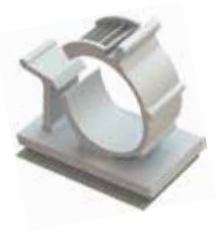
Features:
- Available in High Bond Rubber Adhesive
- Locks securely and easily, reopens for routing changes
- Ratcheting clip holds bundle securely in place
- Good for high vibration applications; once closed the clip will not open until tab is released





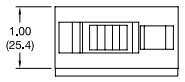
Item No.			Ø E Bundle Range Ref.		A		B		C Ref.		D		Bulk Pack Qty
Acrylic Adhesive UL94 V-2	Acrylic Adhesive UL94 V-0	High Bond Rubber Adhesive UL94 V-2	in	mm	in	mm	in	mm	in	mm	in	mm	
AKKL-2140A-RT	AKKL-2140A-19	—	0.215 - 0.258	5.5 - 6.5	0.85	21.6	0.65	16.5	0.708	18	0.39	10.0	100
AKKL-3140A-RT	AKKL-3140A-19	• AKKL-3140-DHB	0.312 - 0.406	7.9 - 10.3	1.00	25.4	0.75	19.1	0.866	22	0.40	10.2	100
AKKL-4756A-RT	AKKL-4756A-19	• AKKL-4756-DHB	0.469 - 0.562	11.9 - 14.3	1.25	31.8	0.75	19.1	1.090	27.7	0.40	10.2	100
AKKL-5775A-RT	AKKL-5775A-19	• AKKL-5775-DHB	0.578 - 0.750	14.7 - 19.1	1.50	38.1	0.75	19.1	1.250	31.8	0.50	12.7	100
AKKL-8710A-RT	AKKL-8710A-19	—	0.875 - 1.000	22.2 - 25.4	2.00	50.8	1.00	25.4	1.750	44.5	0.50	12.7	100
AKKL-10112A-RT	AKKL-10112A-19	—	1.000- 1.250	25.4 - 31.7	2.50	63.5	1.00	25.4	2.000	50.8	0.50	12.7	100

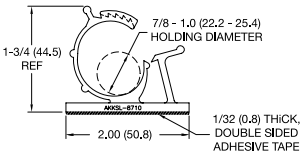
AKKSL Series
Side Lock Adhesive Mount Adjustable Clamp



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Side locks on top of clamp prevent clip from sliding open
- Ratcheting clip holds bundle securely in place





Item No.	Approval	Bulk Pack Qty
AKKSL-8710A-RT		100

PAKKL Series
Snap In Adjustable Clip

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Gathers and routes cables and wires
- Adjusts to diameter needed to bundle
- Push mount design allows for fast installation

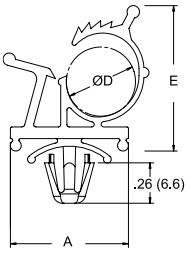


Figure 1

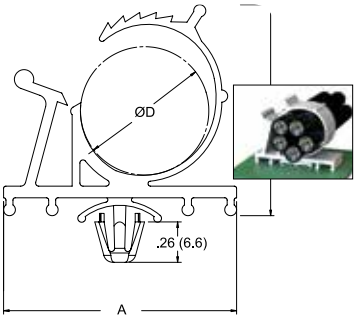
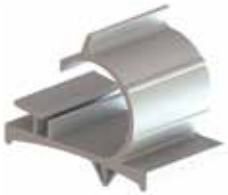


Figure 2

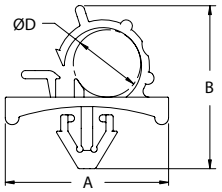
Item No.			D Ø Bundle Range		Ø Mounting Hole		Panel Thickness		A		E Ref.		Depth		Bulk Pack Qty
UL94 V-2	UL94 V-0	Figure	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
PAKKL-3140-01	PAKKL-3140-19	1	0.310 - 0.400	7.9 - 10.2	0.250	6.4	0.030 - 0.060	0.8 - 1.5	0.75	19.1	0.94	23.8	0.350	8.9	100
PAKKL-4756-01	PAKKL-4756-19	1	0.469 - 0.563	11.9 - 14.3	0.250	6.4	0.030 - 0.060	0.8 - 1.5	1.24	31.5	1.17	29.8	0.620	15.7	100
PAKKL-5775-01	PAKKL-5775-19	2	0.578 - 0.750	14.7 - 19.1	0.250	6.4	0.030 - 0.060	0.8 - 1.5	1.50	38.1	1.36	34.5	0.750	19.1	100

PKKL Series
Plug In Locking Clamp



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Part can be opened and closed multiple times for adding or removing wires
- Large contoured base assures stable mounting

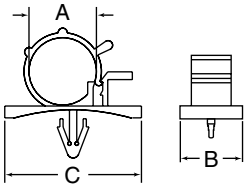


Item No.	A		B		Ø D Holding		Ø Mounting Hole		Panel Thickness		Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
PKKL-3	1.020	25.9	0.921	23.4	0.374	9.5	0.256	6.5	0.031 - 0.062	0.8 - 1.6	0.67	17.0	200
PKKL-3S	0.830	21.1	0.828	21.0	0.307	7.8	0.256	6.5	0.031 - 0.062	0.8 - 1.6	0.75	19.1	200
PKKL-4	1.19	30.3	1.260	32.0	0.532	13.5	0.256	6.5	0.031 - 0.062	0.8 - 1.6	0.76	19.4	100

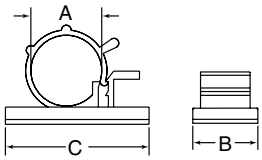
CCP/CCA Series
Push Mount & Adhesive Clamp

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Grey

Features:
- Two-stage lock design to accommodate different cable sizes in a single clamp
- Easy to reopen with thumb tab release
- Available in two styles: CCP for push mount into pre-drilled hole and CCA with a self adhesive backing



CCP Push Mount



CCA Adhesive

Item No.		Ø A Bundle Range		Ø Mounting Hole		Panel Thickness		B		C		Bulk Pack Qty
Push Mount	Adhesive	in	mm	in	mm	in	mm	in	mm	in	mm	
CCP001A	CCA007A	0.230 - 0.280	6.0 - 7.0	0.189	4.8	0.070 - 0.110	1.8 - 2.8	0.787	20.0	0.984	25.0	100
CCP002A	CCA008A	0.280 - 0.310	7.0 - 8.0	0.189	4.8	0.070 - 0.110	1.8 - 2.8	0.787	20.0	0.984	25.0	100
CCP003A	CCA009A	0.350 - 0.390	9.0 - 10.0	0.189	4.8	0.070 - 0.110	1.8 - 2.8	0.965	24.5	1.181	30.0	100
CCP004A	CCA010A	0.470 - 0.550	12.0 - 14.0	0.189	4.8	0.070 - 0.110	1.8 - 2.8	0.965	24.5	1.181	30.0	100
CCP005A	CCA011A	0.620 - 0.710	16.0 - 18.0	0.189	4.8	0.070 - 0.110	1.8 - 2.8	0.965	24.5	1.181	30.0	100

WAC Series
Webbed Adjustable Clip

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Locks securely and easily; reopens for routing changes
- Adjustable, ratcheting clip holds bundle securely in place
- Spring in the top of the clamp adds additional tension to grip the bundle
- Finger grip eases installation
- Cupped base adds stability to the mounting and covers the hole completely

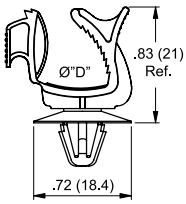


Figure 1

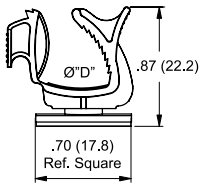


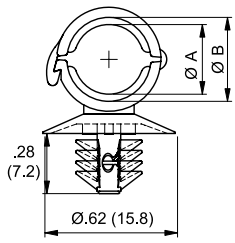
Figure 2

Item No.	D Ø Bundle Range		Ø Mounting Hole		Panel Thickness		Figure	Bulk Pack Qty
	in	mm	in	mm	in	mm		
WAC1-01	0.12 - 0.34	3.0 - 8.5	0.157 - 0.189	4.0 - 4.8	0.019 - 0.063	0.5 - 1.6	1	1000
WAC2-01	0.12 - 0.34	3.0 - 8.5	0.236 - 0.267	6.0 - 6.8	0.019 - 0.098	0.5 - 2.5	1	1000
WAC3-01A4-RT	0.12 - 0.34	3.0 - 8.5	Adhesive	Adhesive	Adhesive	Adhesive	2	1000

HLCC Series
Hinged Locking Clamp

Specifications:
- Material: Heat Stabilized UL94 V-2 Nylon 6/6
- Color: Black

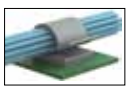
Features:
- Securely holds corrugated/convoluted tubing or other bundles
- An internal rib spanning the diameter of the clamp provides a tight grip
- Releasable latch convenient for maintenance
- Fir-tree mount accommodates a large range of panel thicknesses

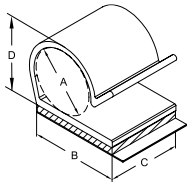


Item No.	Recommended Corrugated Tube Size				Ø Mounting Hole		Panel Thickness		Ø A Ref.		Ø B Ref.		Bulk Pack Qty
	ID		OD										
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
HLCC-1BK	0.20	5.0	0.28	7.1	0.26 - 0.28	6.5 - 7.0	0.03 - 0.12	.0.8 - 3.0	0.23	5.8	0.28	7.2	1000
HLCC-2BK	0.27	6.9	0.39	9.9	0.26 - 0.28	6.5 - 7.0	0.03 - 0.12	.0.8 - 3.0	0.33	8.3	0.39	10.0	1000

KKR Series
Adhesive Mount Clamp

Specifications:
- Material: UL94 V-0 PVC
- Color: Grey

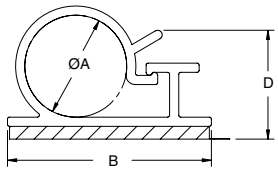


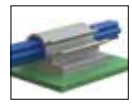


Item No.	Ø A Bundle		Max Capacity D		B		C		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKR-5A1-RT	0.521	13.2	0.680	17.3	0.750	19.1	0.625	15.9	500

CABLE CLAMPS

KKL Series
Adhesive Mount Locking Clamp





Specifications:
- Material: UL94 V-0 PVC
- Color: Grey

Features:
- Gathers, routes, and locks cables and wires
- Can be opened and closed multiple times for addition or removal of cables

Item No.	A Bundle		B		Depth		D at Max Bundle Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKL-4-RT	1/4	6.4	0.750	19.1	0.750	19.1	0.38	9.6	500
KKL-8-RT	1/2	12.7	1.000	25.4	1.000	25.4	0.69	17.4	100
KKL-12-RT	3/4	19.1	1.000	25.4	1.000	25.4	0.92	23.5	100

KKD/KKDL Series
Adhesive Mount Clamp

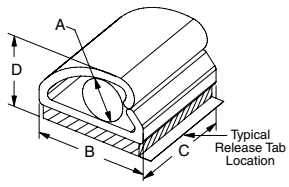


Figure 1

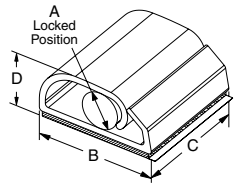
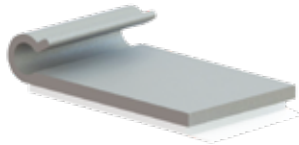


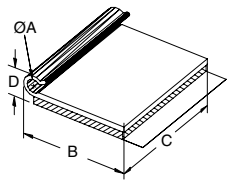
Figure 2

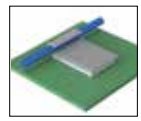
Specifications:
- Material: UL94 V-0 PVC
- Color: Grey

Item No.	Figure	Ø A Bundle		B		C		D at Max Bundle Ref.		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
KKDL-4-RT	2	0.125	3.2	0.50	12.7	0.500	12.7	0.28	7.1	500
KKDL-8-RT	2	0.219	5.6	0.75	19.1	0.750	19.1	0.43	10.9	100
KKD-4-RT	1	0.250	6.4	0.50	12.7	0.500	12.7	0.40	10.2	500
KKD-8-RT	1	0.500	12.7	0.75	19.1	0.750	19.1	0.73	18.5	100
KKD-12-RT	1	0.750	19.1	1.13	28.6	1.000	25.4	1.02	25.9	100
KKD-16-RT	1	1.000	25.4	1.50	38.1	1.250	31.8	1.30	33.0	100

KKJ Series
Adhesive Mount Clamp



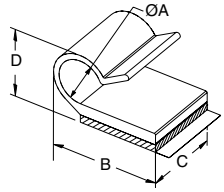


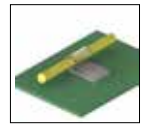


Specifications:
- Material: UL94 V-0 PVC
- Color: Grey

Item No.	Ø A Bundle		B		C		D at Max Bundle Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKJ-2-RT	1/8	3.2	0.843	21.4	1.00	25.4	1/4	6.4	1000
KKJ-3-RT	3/16	4.8	0.875	22.2	1.25	31.8	5/16	7.9	1000
KKJ-4-RT	1/4	6.4	0.906	23.0	1.50	38.1	13/32	10.3	1000
KKJ-5-RT	5/16	7.9	1.219	31.0	1.75	44.5	7/16	11.1	1000
KKJ-6-RT	3/8	9.5	1.281	32.5	2.00	50.8	17/32	13.5	1000

MKKJ Series
Mini Adhesive Mount Clamp





Specifications:
- Material: UL94 V-0 PVC
- Color: Clear

Features:
- Clear color hides clamp

Item No.	Ø A Bundle		B		C		D at Max Bundle Ref		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
MKKJ-2-RT	0.125	3.2	0.437	11.1	0.375	9.5	0.234	6.0	1000
MKKJ-3-RT	0.187	4.8	0.625	15.9	0.437	11.1	0.328	8.3	1000
MKKJ-4-RT	0.250	6.4	0.656	16.7	0.500	12.7	0.406	10.3	1000
MKKJ-5-RT	0.312	7.9	0.812	20.6	0.562	14.3	0.484	12.3	1000
MKKJ-6-RT	0.375	9.5	0.875	22.2	0.625	15.9	0.562	14.3	1000

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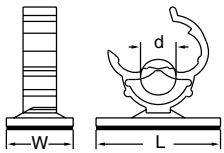
Adhesive Mount Clamp

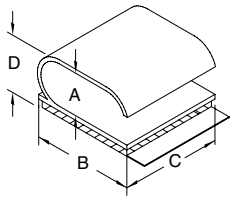


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Strong adhesion for quick and easy installation
- One size fits a range of cable diameters

Item No.	Holding Capacity d		W		L		Bulk Pack Qty
	in	mm	in	mm	in	mm	
460317	0.441	11.2	0.630	16.0	1.173	29.8	1000

KKF Series
Adhesive Mount Clamp

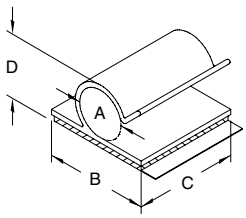


Specifications:
- Material: UL94 V-0 PVC
- Color: Grey

Features:
- Can hold three wire leads (such as air conditioning leads)

Item No.	Holding Capacity A		B		C		Max Capacity D		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKF-10X4-RT	0.20 x 0.56	5.1 x 14.3	0.750	19.1	0.750	19.1	0.36	9.1	100

KKC Series
Adhesive Mount Clamp



Specifications:
- Material: UL94 V-0 PVC
- Color: Grey

Features:
- For securely clamping cable or tubing

Item No.	Holding Capacity A		B		C		D		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKC-2-RT	1/8	3.2	0.750	19.1	0.750	19.1	0.31	7.9	500
KKC-3-RT	3/16	4.8	0.750	19.1	0.750	19.1	0.33	8.4	500
KKC-4-RT	1/4	6.4	0.750	19.1	0.750	19.1	0.42	10.7	500
KKC-5-RT	5/16	7.9	0.750	19.1	0.750	19.1	0.48	12.2	500
KKC-6-RT	3/8	9.5	0.750	19.1	0.750	19.1	0.60	15.2	500
KKC-8-RT	1/2	12.7	1.000	25.4	1.000	25.4	0.69	17.5	100
KKC-12-RT	3/4	19.1	1.000	25.4	1.000	25.4	0.94	23.9	100

UC/HUC Series
Adhesive Mount U Clamp

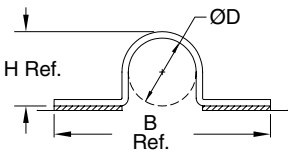


Figure 1

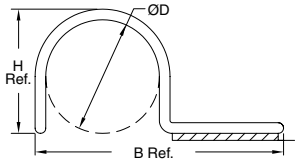


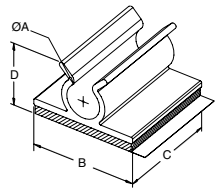
Figure 2

Specifications:
- Material: UL94 V-0 PVC
- Color: Black

Item No.	Figure	D Holding Capacity		B Ref.		H Ref.		Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
UC-2-RT	1	1/8	3.2	1.219	30.9	0.172	4.4	0.625	15.9	1000
HUC-2-RT	2	1/8	3.2	0.718	18.3	0.172	4.4	0.625	15.9	1000
UC-4-RT	1	1/4	6.4	1.344	34.1	0.297	7.5	0.625	15.9	1000
HUC-4-RT	2	1/4	6.4	1.343	34.1	0.297	7.5	0.625	15.9	1000
UC-6-RT	1	3/8	9.5	1.469	37.3	0.422	10.7	0.625	15.9	1000
UC-8-RT	1	1/2	12.7	1.594	40.4	0.547	13.9	0.625	15.9	1000

CABLE CLIPS & CLAMPS

KKU Series
Adhesive Mount Clamp



Specifications:
- Material: UL94 V-0 PVC
- Color: Grey

Features:
- To hold wires, cords, or cables in place

Item No.	Ø A Bundle in	Ø A Bundle mm	B in	B mm	C in	C mm	D Ref. in	D Ref. mm	Bulk Pack Qty
KKU-2-RT	1/8	3.2	0.750	19.1	0.750	19.1	0.281	7.1	500
KKU-4-RT	1/4	6.4	0.750	19.1	0.750	19.1	0.468	11.9	500
KKU-6-RT	3/8	9.5	0.750	19.1	0.750	19.1	0.593	15.1	500
KKU-8-RT	1/2	12.7	1.000	25.4	1.000	25.4	0.687	17.5	100
KKU-9-RT	9/16	14.3	1.000	25.4	1.000	25.4	0.750	19.1	100
KKU-12-RT	3/4	19.1	1.000	25.4	1.000	25.4	0.906	23.0	100

WCK/MWCK Series
Adhesive Mount Clips

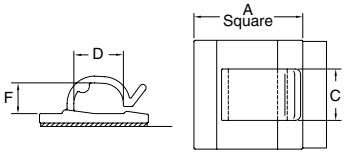


Figure 1

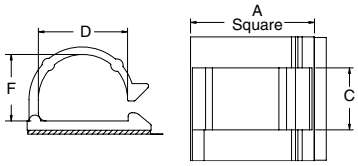


Figure 2

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- To hold wires, cords, or cables in place

Item No.	Figure	Approval	A in	A mm	C in	C mm	D in	D mm	F in	F mm	Bulk Pack Qty
WCK-180-01A-RT	1	UL	0.63	16.0	0.31	7.9	0.340	8.6	0.16	4.0	1000
WCK-280-01A4-RT	1	—	0.75	19.0	0.39	10.0	0.263	6.7	0.22	5.7	1000
WCK-460-01A-RT	1	UL	0.99	25.1	0.47	11.9	0.45	11.4	0.28	7.1	1000
MWCK-460-01A4-RT	2	—	0.75	19.0	0.47	11.9	0.45	11.4	0.28	7.1	1000
WCK-720-01A-RT	2	—	1.00	25.4	0.50	12.7	0.72	18.3	0.54	13.6	1000

WCA Series
Adhesive Mount Clips

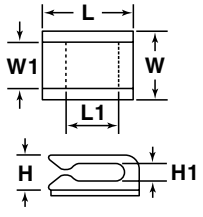


Figure 1

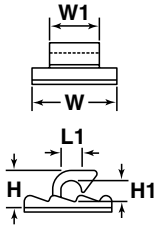


Figure 2

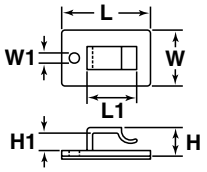


Figure 3

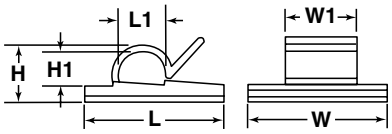


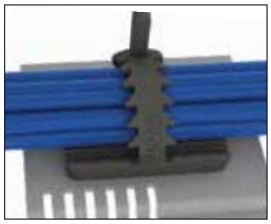
Figure 4

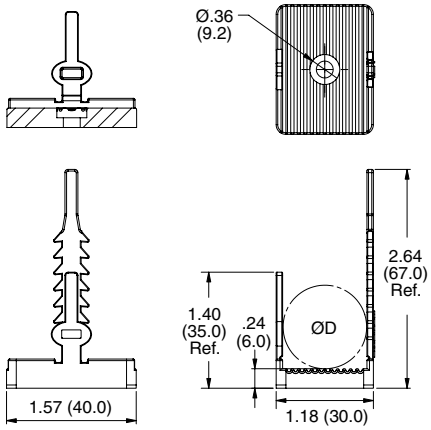
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Designed to support lightweight wire bundles when properly applied on any clean, smooth, grease-free surface

Item No.	Figure	L in	L mm	L1 in	L1 mm	W in	W mm	W1 in	W1 mm	H in	H mm	H1 in	H1 mm	Bulk Pack Qty
WCA001A	1	0.51	13.0	0.354	9.0	0.37	9.5	0.26	6.5	0.20	5.2	0.11	2.8	100
WCA002A	2	0.63	16.0	0.190	4.8	0.61	15.5	0.35	9.0	0.27	6.8	0.19	4.8	100
WCA004A	3	1.06	27.0	0.58	14.8	0.67	17.0	0.12	3.1	0.34	8.7	0.22	5.5	100
WCA005A	4	0.75	19.0	0.23	5.9	0.75	19.0	0.39	10.0	0.28	7.2	0.19	4.9	100

UMB Series
Universal Rubber Clamp





Specifications:
- Material: Neoprene Rubber, 50 Shore A
- Color: Black

Features:
- Flexible, serrated buckle style clamp provides a tight grip to the bundle
- Large, ribbed base gives the cables extra surface area which provides some strain relief
- Two mounting styles available: #10 screw or adhesive

Item No.	Mounting Method	D Approx. Max Cable Ø Bundle		Bulk Pack Qty
		in	mm	
UMB-1	#10 or M5 Screw	0.79	20.0	200
UMB-1A-RT	Adhesive	0.79	20.0	200

WM Series
Adhesive Mount Wire Mounts

NEW

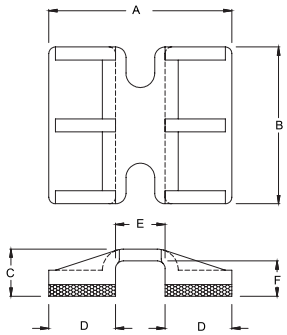


Figure 1

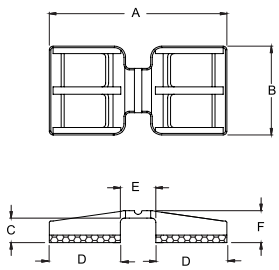


Figure 2

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Mounted over wires to hold them in place
- Quck, secure mounting

Item No.	Figure	E		F		A		B		C		D		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
WM-1A	1	0.150	3.8	0.102	2.6	0.551	14.0	0.472	12.0	0.138	3.5	0.201	5.1	1000
WM-2A	1	0.189	4.8	0.102	2.6	0.945	24.0	0.472	12.0	0.142	3.6	0.378	9.6	500
WM-3A	1	0.189	4.8	0.102	2.6	0.787	20.0	0.472	12.0	0.142	3.6	0.299	7.6	500
WM-4A	1	0.205	5.2	0.110	2.8	0.945	24.0	0.472	12.0	0.150	3.8	0.370	9.4	500
WM-5A	2	0.189	4.8	0.102	2.6	0.945	24.0	0.472	12.0	0.142	3.6	0.378	9.6	500
WM-6A	2	0.189	4.8	0.122	3.1	0.945	24.0	0.472	12.0	0.161	4.1	0.378	9.6	500
WM-7A	2	0.205	5.2	0.122	3.1	0.945	24.0	0.472	12.0	0.161	4.1	0.370	9.4	500

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CABLE CLIPS & CLAMPS

HURC/DHURC/HURCBH/HURCS/DHURCS Series
U Clamp

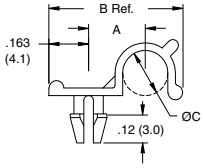


Figure 1

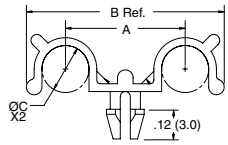


Figure 2

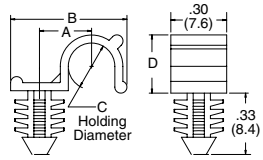


Figure 3

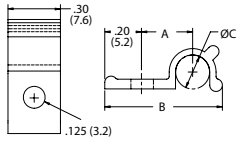


Figure 4

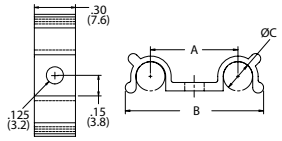


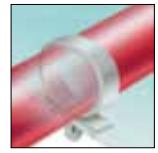
Figure 5

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Item No.	Figure	Ø C Bundle in	Ø C Bundle mm	Ø Mounting Hole in	Ø Mounting Hole mm	Approval	A in	A mm	B Ref. in	B Ref. mm	Panel Thickness in	Panel Thickness mm	Bulk Pack Qty
HURC-2-01	1	0.125	3.2	0.125	3.2	ᵁᴸ	0.20	5.1	0.49	12.4	0.062	1.6	1000
HURC-3-01	1	0.187	4.8	0.125	3.2	ᵁᴸ	0.24	6.1	0.56	14.2	0.062	1.6	1000
HURC-4-01	1	0.250	6.4	0.125	3.2	ᵁᴸ	0.27	6.9	0.62	15.7	0.062	1.6	1000
HURC1-2-01	1	0.125	3.2	0.125	3.2	ᵁᴸ	0.20	5.1	0.49	12.4	0.093	2.4	1000
HURC1-3-01	1	0.187	4.8	0.125	3.2	ᵁᴸ	0.24	6.1	0.56	14.2	0.093	2.4	1000
HURC1-4-01	1	0.250	6.4	0.125	3.2	ᵁᴸ	0.27	6.9	0.62	15.7	0.093	2.4	1000
DHURC-2-01	2	0.125	3.2	0.125	3.2	ᵁᴸ	0.41	10.4	0.66	16.8	0.062	1.6	1000
DHURC-3-01	2	0.187	4.8	0.125	3.2	ᵁᴸ	0.48	12.2	0.79	20.1	0.062	1.6	1000
DHURC-4-01	2	0.250	6.4	0.125	3.2	ᵁᴸ	0.55	14.0	0.94	23.9	0.062	1.6	1000
HURCS-2-01	4	0.125	3.2	0.125	3.2	—	0.25	6.2	0.59	15.0	—	—	1000
HURCS-3-01	4	0.187	4.8	0.125	3.2	—	0.28	7.1	0.65	15.6	—	—	1000
HURCS-4-01	4	0.250	6.4	0.125	3.2	—	0.32	8.1	0.72	18.3	—	—	1000
DHURCS-2-01	5	0.125	3.2	0.125	3.2	—	0.49	12.4	0.75	19.0	—	—	1000
DHURCS-3-01	5	0.187	4.8	0.125	3.2	—	0.56	14.2	0.89	22.6	—	—	1000
DHURCS-4-01	5	0.250	6.4	0.125	3.2	—	0.64	16.2	1.02	25.9	—	—	1000
HURCBH-2-01	3	0.125	3.2	0.250	6.4	—	0.49	12.4	0.17	4.3	0.250	6.4	1000
HURCBH-3-01	3	0.187	4.8	0.250	6.4	—	0.56	14.2	0.24	6.1	0.250	6.4	1000
HURCBH-4-01	3	0.250	6.4	0.250	6.4	—	0.62	15.7	0.30	7.6	0.250	6.4	1000

SRC Series
Split Routing Clamp

EXPANDED LINE



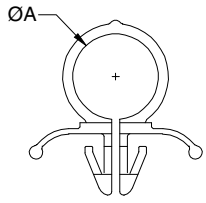


Figure 1

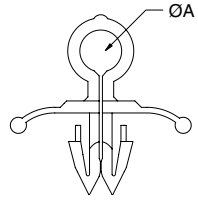


Figure 2

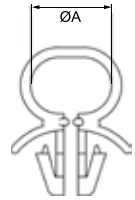


Figure 3

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:
- Split design allows bundles to be loaded by separating the clip at the base
- Cannot be removed without removing the clip from the blind side of the application

Item No.	Approval	Figure	Ø A Bundle In	Ø A Bundle mm	Hole Diameter In	Hole Diameter mm	Panel Thickness In	Panel Thickness mm	Color	Bulk Pack Qty
SRC-1-01	—	2	.197	5.0	.246	6.2	0.079 - 0.118	2.0 - 3.0	Natural	1000
SRC-4-01	ᵁᴸ	1	.250	6.4	.250	6.4	0.050 - 0.060	1.3 - 1.5	Natural	1000
• 101 001 000 202	—	3	.413	10.5	.250	6.4	0.028 - 0.079	0.7 - 2.0	Grey	500
SRC-7-01	ᵁᴸ	1	.438	11.1	.250	6.4	0.050 - 0.060	1.3 - 1.5	Natural	1000
SRC-8-01	ᵁᴸ	1	.500	12.7	.250	6.4	0.050 - 0.060	1.3 - 1.5	Natural	1000
• 101 001 400 202	—	3	.551	14.0	.250	6.4	0.028 - 0.079	0.7 - 2.0	Grey	500
SRC-10-01	—	1	.625	15.9	.250	6.4	0.050 - 0.060	1.3 - 1.5	Natural	1000
• 101 002 100 202	—	3	.846	21.5	.250	6.4	0.028 - 0.079	0.7 - 2.0	Grey	250
• 101 003 000 202	—	3	1.181	30.0	.250	6.4	0.028 - 0.079	0.7 - 2.0	Grey	250

SRCC Series
Strain Relief Clamp

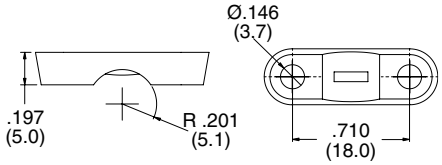


Figure 1

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:
- Grips cable providing slight strain relief
- Securely installed with two screws

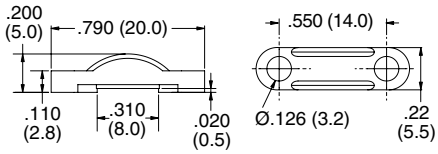


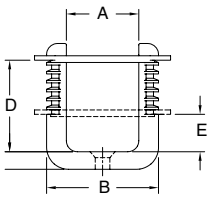
Figure 2

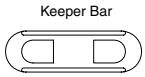
Item No.	Figure	Color	Ø Max Cable	Mounting Screws	Bulk Pack Qty
SRCC-1	1	Grey	0.177	M3 or #6	1000
SRCC-2	2	Black	0.310	M3 or #4	1000

D Series
Two-Piece Locking Clamp

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Mounts with a #8 or M4 flat-head machine screw
- Adjustable holding capacity
- Keeper bar is removable for changes or repairs





Item No.	A Ref.		B Ref.		D Ref.		E Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
D-1	0.990	25.1	1.530	38.9	1.25	31.8	0.51	13.0	100
D-1.5	1.457	37.0	2.175	55.3	1.65	41.9	0.66	16.8	100

CH/RSC Series
Snap In Cable Hanger

Specifications:
- Material: See Table
- Color: See Table

Features:
- Gathers and routes cables and wires
- Push mount design allows for fast installation

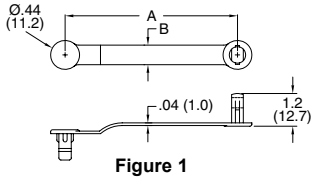


Figure 1

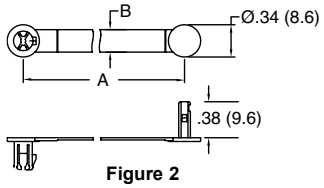
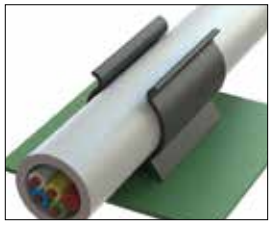


Figure 2

Item No.			Ø Max Bundle		Ø Mounting Hole		A Ref		B			Bulk Pack Qty
Natural	Black	Figure	in	mm	in	mm	in	mm	in	mm	Material	
CH-1-01	CH-1-01BK	1	0.375	9.5	0.250	6.4	1.750	44.5	0.297	7.5	UL94 V-2 Nylon 6/6	1000
CH-2-01	CH-2-01BK	1	0.625	15.9	0.250	6.4	2.625	66.7	0.297	7.5	UL94 V-2 Nylon 6/6	1000
CH-1-10	CH-1-10BK	1	0.375	9.5	0.250	6.4	1.750	44.5	0.297	7.5	UL94 HB Polypropylene	1000
CH-2-10	CH-2-10BK	1	0.625	15.9	0.250	6.4	2.625	66.7	0.297	7.5	UL94 HB Polypropylene	1000
—	RSC-3-01	2	0.218	5.6	0.189	4.8	1.100	28.0	0.160	4.0	UL94 V-2 Nylon 6/6	1000
—	RSC-4-01	2	0.250	6.4	0.189	4.8	1.300	33.0	0.240	6.0	UL94 V-2 Nylon 6/6	1000
—	RSC-6-01	2	0.375	9.5	0.189	4.8	1.690	43.0	0.240	6.0	UL94 V-2 Nylon 6/6	1000
—	RSC-9-01	2	0.625	15.9	0.189	4.8	2.480	63.0	0.240	6.0	UL94 V-2 Nylon 6/6	1000

CABLE CLIPS & CLAMPS

V Series
Screw Mount Component Clip



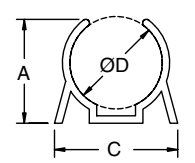


Figure 1

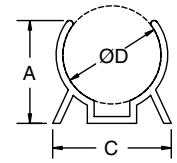


Figure 2

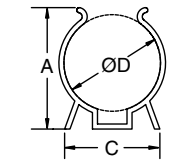


Figure 3

Specifications:
- Material: UL94 V-0 PVC
- Color: Black

Features:
- Legs prevent shifting and tipping
- Mounts securely with screws or rivets
- Holds parts firmly

Item No.	Ø D Holding in	Ø D Holding mm	Ø F Hole Ref. in	Ø F Hole Ref. mm	A Ref. in	A Ref. mm	C Ref. in	C Ref. mm	H Ref. in	H Ref. mm	L in	L mm	Figure	Bulk Pack Qty
V-1000	0.25	6.4	0.094	2.4	0.30	7.5	0.50	12.7	Single Hole In Center		0.50	12.7	1	1000
V-1001	0.31	7.9	0.094	2.4	0.36	9.1	0.50	12.7	Single Hole In Center		0.50	12.7	1	1000
V-1002	0.38	9.5	0.094	2.4	0.41	10.3	0.50	12.7	Single Hole In Center		0.50	12.7	1	1000
V-1003	0.44	11.1	0.094	2.4	0.45	11.5	0.52	13.1	Single Hole In Center		0.50	12.7	1	1000
V-1004	0.50	12.7	0.094	2.4	0.50	12.7	0.66	16.7	Single Hole In Center		0.50	12.7	1	1000
V-1005	0.56	14.3	0.094	2.4	0.61	15.5	0.72	18.3	Single Hole In Center		0.50	12.7	1	1000
V-1006	0.63	15.9	0.094	2.4	0.63	15.9	0.83	21.0	Single Hole In Center		0.50	12.7	1	1000
V-1007	0.69	17.6	0.156	4.0	0.63	15.9	0.84	21.0	Single Hole In Center		0.50	12.7	1	1000
V-1008	0.75	19.7	0.156	4.0	0.78	19.8	0.89	22.6	Single Hole In Center		0.50	12.7	1	100
V-1009	0.88	22.2	0.156	4.0	0.91	23.0	1.08	27.4	Single Hole In Center		0.50	12.7	1	100
V-1010	1.00	25.4	0.156	4.0	0.98	25.0	1.13	28.6	.75	19.1	1.13	28.5	2	100
V-1011	1.38	34.9	0.156	4.0	1.34	34.1	1.25	31.8	.75	19.1	1.13	28.5	2	100
V-1024	1.50	38.1	0.156	4.0	1.81	46.0	1.42	36.1	.75	19.1	1.75	44.5	3	100
V-1028	1.75	44.5	0.156	4.0	1.92	48.8	1.50	38.1	.75	19.1	1.75	44.5	3	100
V-1030	2.25 - 2.75	57.1 - 69.9	0.156	4.0	2.44	61.9	2.61	66.3	.75	19.1	1.50	38.1	3	100

VM Series
Screw Mount Component Clip

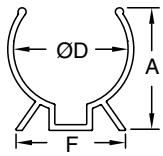


Figure 1

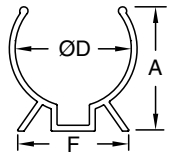


Figure 2

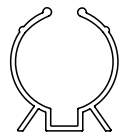


Figure 3

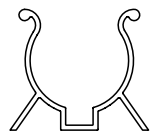
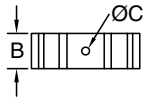
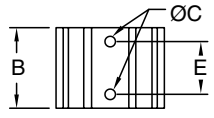


Figure 4

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

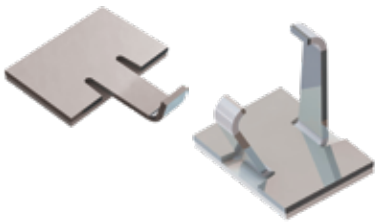
Features:
- Smooth edges protect components from wear and abrasion
- Legs prevent shifting and tipping
- Mounts securely with screws or rivets





Item No.	Ø D Holding in	Ø D Holding mm	C Hole Ø in	C Hole Ø mm	A Ref. in	A Ref. mm	B in	B mm	E in	E mm	F Ref. in	F Ref. mm	Figure	Bulk Pack Qty
VM-1002	3/8	9.5	0.11	2.8	0.44	11.2	0.50	12.7	Single Hole in Center		0.54	13.7	1	100
VM-1004	1/2	12.7	0.11	2.8	0.52	13.2	0.50	12.7	Single Hole in Center		0.75	19.1	1	100
VM-1007	11/16	17.5	0.15	3.8	0.78	19.8	0.50	12.7	Single Hole in Center		0.82	20.8	1	100
VM-1008	3/4	19.1	0.15	3.8	0.97	24.6	0.50	12.7	Single Hole in Center		0.98	24.9	1	100
VM-1010	1	25.4	0.15	3.8	1.03	26.1	1.12	28.4	.750	19.1	1.25	31.8	2	100
VM-1011	1-3/8	34.9	0.15	3.8	1.51	38.4	1.16	29.5	.750	19.1	1.37	34.8	2	100
VM-1024	1-1/2	38.1	0.15	3.8	1.67	42.4	1.70	43.2	.750	19.1	1.50	38.1	3	100
VM-1030	2-1/4	57.2	0.15	3.8	2.50	63.5	1.52	38.6	.750	19.1	3.00	76.2	4	100

ASK/RAK Series
Adhesive Mount Aluminum Clamp



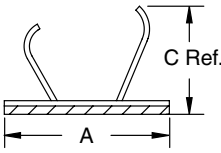


Figure 1

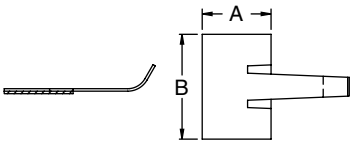


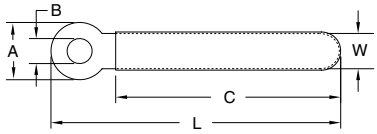
Figure 2

Specifications:
- Material: Aluminum, Bright Finish

Features:
- Aluminum arms are flexed around bundle
- Lightweight and durable
- Adhesive mount for quick installation

Item No.	Figure	Ø Max Bundle in	Ø Max Bundle mm	A in	A mm	B Base Depth in	B Base Depth mm	Bulk Pack Qty
ASK-3	1	0.234	6.0	0.44	11.3	0.66	16.8	250
ASK-6	1	0.375	9.5	0.62	15.7	0.74	18.8	250
RAK-1	2	0.234	6.0	0.44	11.3	0.67	17.1	250
RAK-2	2	0.375	9.5	0.64	16.3	0.76	19.3	250

VCC Series
Vinyl Coated Adjustable Steel Clamp

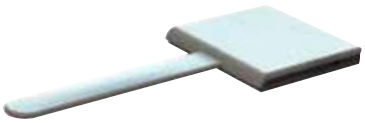


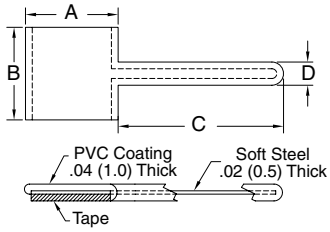
Specifications:
- Material: PVC Coated Soft Steel
- Color: Body - Steel Coating - Black

Features:
- For bundling and clamping cable or tubing securely
- Vinyl coating grips and insulates the cable
- Easily bends and forms to desired shape for varying holding diameters

Item No.	Ø Bundle in	Ø Bundle mm	C Ref. in	C Ref. mm	L Ref. in	L Ref. mm	W Ref. in	W Ref. mm	A in	A mm	Ø B in	Ø B mm	Pack Qty	Bulk Pack Qty
VCC-83028	0.22	5.7	0.71	18.0	1.10	28.0	0.12	3.0	0.315	8.0	0.118	3.0	1	1000
VCC-83535	0.31	7.9	0.98	25.0	1.34	35.0	0.20	5.0	0.315	8.0	0.138	3.5	1	1000
VCC-83540	0.37	9.5	1.18	30.0	1.57	40.0	0.12	3.0	0.315	8.0	0.138	3.5	1	1000
VCC-63048	0.50	12.7	1.57	40.0	1.89	48.0	0.08	2.0	0.236	6.0	0.118	3.0	1	1000
VCC-84554	0.52	13.3	1.65	42.0	2.13	54.0	0.19	4.8	0.315	8.0	0.177	4.5	1	1000
VCC-63254	0.57	14.6	1.81	46.0	2.13	54.0	0.14	3.6	0.236	6.0	0.126	3.2	1	1000
VCC-83664	0.66	16.9	2.09	53.0	2.52	64.0	0.20	5.0	0.315	8.0	0.161	4.1	1	1000
VCC-84576	0.81	20.7	2.56	65.0	2.99	76.0	0.18	4.5	0.315	8.0	0.177	4.5	1	1000
VCC-84584	0.90	22.9	2.83	72.0	3.31	84.0	0.18	4.5	0.315	8.0	0.177	4.5	1	1000
VCC-845126	1.40	35.6	4.41	112.0	4.96	126.0	0.24	6.0	0.315	8.0	0.177	4.5	1	100

PCC Series
Adhesive Mount Vinyl Coated Adjustable Steel Clamp



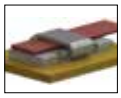


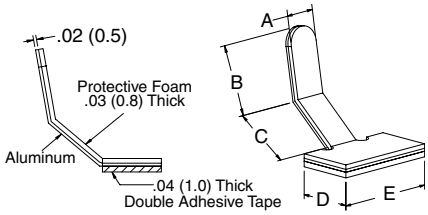
Specifications:
- Material: Soft Steel with PVC Coating
- Color: White

Features:
- Protects and insulates wires or components
- Flexible arm holds flat, round, or oddly shaped components
- Arm may be opened or closed repeatedly and reshaped for varying holding diameters

Item No.	A Ref. in	A Ref. mm	B in	B mm	C Ref. in	C Ref. mm	D Ref. in	D Ref. mm	Bulk Pack Qty
PCC-5	0.31	8.0	0.31	8.0	0.59	15.0	0.08	2.1	1000
PCC-9	0.55	14.0	0.55	14.0	0.98	25.0	0.14	3.5	500
PCC-12	0.75	19.0	0.75	19.0	1.58	40.0	0.16	4.0	500

PFC Series
Adhesive Mount Foam Coated Adjustable Steel Clamp





Specifications:
- Material: Foam Coated Aluminum
- Color: Grey Coated

Features:
- Made of aluminum with a protective foam coating on the inside of the clamp that protects cables and fibers
- Flexible arm holds flat, round or oddly shaped components
- Arm may be opened or closed repeatedly and reshaped for varying holding diameters

Item No.	A Ref. in	A Ref. mm	B Ref. in	B Ref. mm	C Ref. in	C Ref. mm	D in	D mm	E in	E mm	Bulk Pack Qty
PFC-25M	0.189	4.8	0.494	12.6	0.437	11.1	0.397	10.1	0.751	19.1	1000
PFC-50M	0.205	5.2	0.573	14.6	0.555	14.1	0.553	14.1	0.982	25.0	1000

CABLE CLIPS & CLAMPS

RWS/RWSB Series
Round Clamp

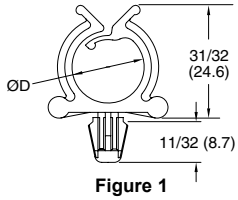


Figure 1

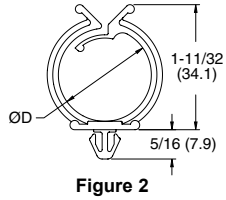


Figure 2

Specifications:
- Material: Nylon 6/6
- Color: See Table

Features:
- Gathers and routes cables nd wires
- Push mount design allows for fast installation
- Adhesive base makes installation quick and easy

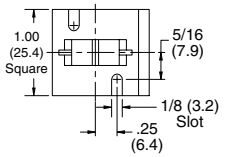
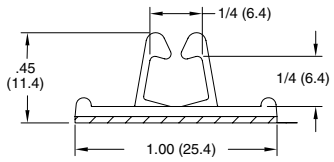


Figure 3

Item No.		Mounting			Ø D Holding		Mounting Hole		Panel Thickness		Depth			Bulk Pack
UL94 V-2	UL94 V-0	Method	Approval	Figure	in	mm	in	mm	in	mm	In	mm	Color	Qty
RWS-10-01	RWS-10-19	Snap-In		1	0.625	15.9	Ø.250	6.4	0.030 - 0.060	0.8 - 1.5	0.297	17.5	Natural	1000
RWS-10-01BK	—	Snap-In		1	0.625	15.9	Ø.250	6.4	0.030 - 0.060	0.8 - 1.5	0.297	17.5	Black	1000
RWS-16-01	RWS-16-19	Snap-In		2	1.000	25.4	.250 Square	6.4	0.058 - 0.064	1.5 - 1.6	0.297	17.5	Natural	1000
RWS-16-01BK	—	Snap-In		2	1.000	25.4	.250 Square	6.4	0.058 - 0.064	1.5 - 1.6	0.297	17.5	Black	1000
RWSB-10-01A-RT	—	Adhesive	—	3	0.625	15.9	—	—	—	—	1.000	25.4	Natural	1000
RWSB-16-01A-RT	—	Adhesive	—	3	1.000	25.4	—	—	—	—	1.000	25.4	Natural	1000
RWSB-10-01	—	Screw	—	3	0.625	15.9	—	—	—	—	1.000	25.4	Natural	1000
RWSB-16-01	—	Screw	—	3	1.000	25.4	—	—	—	—	1.000	25.4	Natural	1000

WCB Series
Cord Clip On Adhesive Base



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Routes and fastens cords and cables
- Adhesive mount design for quick and easy installation

Item No.	Approval	Depth		Bulk Pack Qty
		in	mm	
WCB-250-01A-RT		0.500	12.7	1000

SCCA/SCCB Series
Standoff Cable Clip

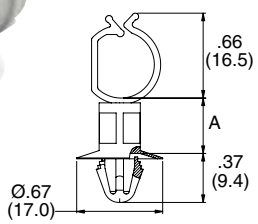


Figure 1

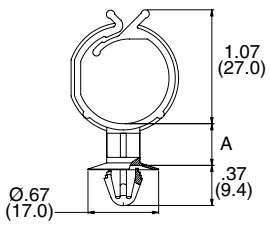


Figure 2

Specifications:
- Material: Nylon 6/6
- Color: Natural
- Mounting Hole: .256 - .276 (6.5 - 7.0)
- Panel Thickness: .024 - 0.079 (0.6 - 2.0)

Features:
- Gathers and routes wires
- Standoff design provides spacing between the wires and chassis

Item No.			Ø Max Bundle		A		Bulk Pack
UL94 V-2	UL94 V-0	Figure	in	mm	in	mm	Qty
SCCA-1-01	SCCA-1-19	1	0.87	22.0	0.16	4.0	1000
SCCA-2-01	SCCA-2-19	1	0.87	22.0	0.24	6.0	1000
SCCA-3-01	SCCA-3-19	1	0.87	22.0	0.32	8.0	1000
SCCA-4-01	—	1	0.87	22.0	0.39	10.0	1000
SCCA-5-01	SCCA-5-19	1	0.87	22.0	0.47	12.0	1000
SCCB-1-01	SCCB-1-19	2	0.43	11.0	0.16	4.0	1000
SCCB-2-01	—	2	0.43	11.0	0.24	6.0	1000
SCCB-3-01	SCCB-3-19	2	0.43	11.0	0.32	8.0	1000
SCCB-4-01	—	2	0.43	11.0	0.39	10.0	1000
SCCB-5-01	SCCB-5-19	2	0.43	11.0	0.47	12.0	1000
SCCB-6-01	—	2	0.43	11.0	1.18	30.0	1000

SLCS/SLCSE Series
Standoff Locking Clip

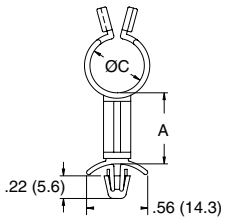


Figure 1

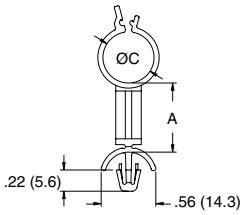


Figure 2

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Mounting Hole: .187 (4.8)
- SLCS/SLCSE Panel Thickness: 0.031 - 0.078 (0.8 - 2.0)
- SLCSE2 Panel Thickness: 0.078 - 0.160 (2.0 - 4.0)

Features:
- Gathers and routes wires
- Easy locking design makes it easy to open and close with very little effort
- Standoff design provides spacing between the wires and the chassis

Item No.	Approval	Figure	A in	A mm	Ø C Max Bundle in	Ø C Max Bundle mm	Bulk Pack Qty
SLCS-250-3-01	UL	1	0.187	4.8	0.187	4.8	1000
SLCS-250-4-01	UL	1	0.250	6.4	0.187	4.8	1000
SLCS-250-6-01	UL	1	0.375	9.5	0.187	4.8	1000
SLCS-250-8-01	UL	1	0.500	12.7	0.187	4.8	1000
SLCS-250-16-01	UL	1	1.000	25.4	0.187	4.8	1000
SLCS-370-3-01	UL	1	0.187	4.8	0.312	7.9	1000
SLCS-370-4-01	UL	1	0.250	6.4	0.312	7.9	1000
SLCS-370-6-01	UL	1	0.375	9.5	0.312	7.9	1000
SLCS-370-8-01	UL	1	0.500	12.7	0.312	7.9	1000
SLCS-370-16-01	UL	1	1.000	25.4	0.312	7.9	1000
SLCS-500-3-01	UL	1	0.187	4.8	0.437	11.1	1000
SLCS-500-4-01	UL	1	0.250	6.4	0.437	11.1	1000
SLCS-500-6-01	UL	1	0.375	9.5	0.437	11.1	1000
SLCS-500-8-01	UL	1	0.500	12.7	0.437	11.1	1000

Item No.	Approval	Figure	A in	A mm	Ø C Max Bundle in	Ø C Max Bundle mm	Bulk Pack Qty
SLCS-500-16-01	UL	1	1.000	25.4	0.437	11.1	1000
SLCS-750-3-01	UL	1	0.187	4.8	0.687	17.5	1000
SLCS-750-4-01	UL	1	0.250	6.4	0.687	17.5	1000
SLCS-750-6-01	UL	1	0.375	9.5	0.687	17.5	1000
SLCS-750-8-01	UL	1	0.500	12.7	0.687	17.5	1000
SLCS-750-16-01	UL	1	1.000	25.4	0.687	17.5	1000
SLCSE-250-3-01	UL	2	0.187	4.8	0.220	5.6	1000
SLCSE-370-3-01	UL	2	0.187	4.8	0.350	8.9	1000
SLCSE-500-3-01	UL	2	0.187	4.8	0.470	12.0	1000
SLCSE-750-3-01	UL	2	0.187	4.8	0.730	18.4	1000
SLCSE2-250-3-01	UL	2	0.187	4.8	0.220	5.6	1000
SLCSE2-370-3-01	UL	2	0.187	4.8	0.350	8.9	1000
SLCSE2-500-3-01	UL	2	0.187	4.8	0.470	12.0	1000
SLCSE2-750-3-01	UL	2	0.187	4.8	0.730	18.4	1000

SHK/SHKE/SHKBS Series
Standoff Cable Clip

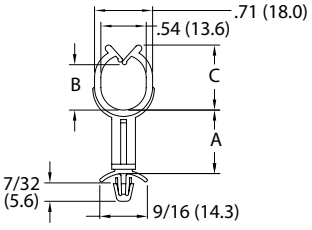


Figure 1

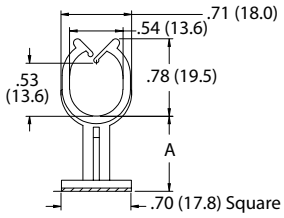


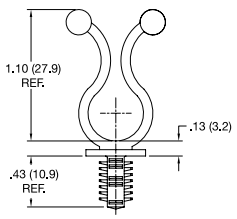
Figure 2

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Gathers and routes wire harnesses
- Standoff design provides spacing between the wire harnesses and the chassis

Item No.	Approval	Figure	A in	A mm	B Ref. in	B Ref. mm	C Ref. in	C Ref. mm	Ø Mounting Hole in	Ø Mounting Hole mm	Panel Thickness in	Panel Thickness mm	Bulk Pack Qty
SHK-6-01	UL	1	0.375	9.5	0.540	13.6	0.770	19.5	0.187	4.8	0.031 - 0.78	0.8 - 2.0	1000
SHK-8-01	UL	1	0.500	12.7	0.540	13.6	0.770	19.5	0.187	4.8	0.031 - 0.78	0.8 - 2.0	1000
SHKE-6-01	—	1	0.375	9.5	0.810	20.6	1.140	29.0	0.187	4.8	0.031 - 0.78	0.8 - 2.0	1000
SHKE-8-01	—	1	0.500	12.7	0.810	20.6	1.140	29.0	0.187	4.8	0.031 - 0.78	0.8 - 2.0	1000
SHKBS-4-01A-RT	—	2	0.250	6.4	—	—	—	—	—	—	—	—	1000
SHKBS-8-01A-RT	—	2	0.500	12.7	—	—	—	—	—	—	—	—	1000

STL-8 Series
Standoff Twist Lock



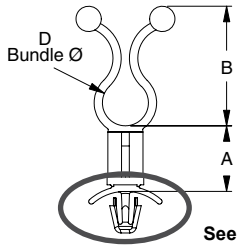
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Lifts wires off board to isolate from other board components
- Cable and wire bundles load and unload with a fingertip twist

Item No.	Ø Bundle in	Ø Bundle mm	Hole Ø in	Hole Ø mm	Min Board Thickness in	Min Board Thickness mm	Bulk Pack Qty
STL-8-450-2-01	0.400 - 0.500	10.2 - 12.7	0.250	6.4	0.250	7.2	1000

TWIST TIES

STL Series
Standoff Twist Lock



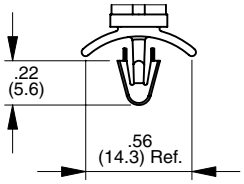
Hole Ø: .187 (4.75)
Panel Thickness:
.031-.078 (0.8-2)

See Individual Styles for Mounting Details

STL Basic Style

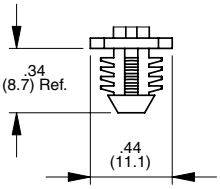
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Lifts wires off board to isolate from other board components
- Cable and wire bundles load and unload with a fingertip twist
- Four mounting styles



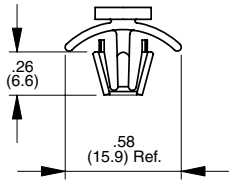
Hole Ø: .156 (4)
Panel Thickness:
.031-.078 (0.8-2)

STL-1



Hole Ø: .312 (7.9)
Panel Thickness:
.250 (7.9) Minimum

STL-3

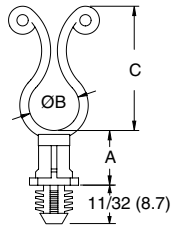


Hole Ø: .236 (6)
Panel Thickness:
.031-.078 (0.8-2)

STL-6

Item No.					Ø D Bundle		A Spacer Length		B Ref.		Bulk Pack Qty
STL Basic Style	STL-1	STL-3	STL-6	Approval	in	mm	in	mm	in	mm	
STL-250-3-01	STL-1-250-3-01	STL-3-250-3-01	STL-6-250-3-01		0.200 - 0.300	5.1 - 7.6	0.187	4.8	0.750	19.1	1000
STL-250-8-01	STL-1-250-8-01	STL-3-250-8-01	STL-6-250-8-01		0.200 - 0.300	5.1 - 7.6	0.500	12.7	0.750	19.1	1000
STL-350-3-01	STL-1-350-3-01	STL-3-350-3-01	STL-6-350-3-01		0.300 - 0.400	7.6 - 10.2	0.187	4.8	0.910	23.1	1000
STL-350-8-01	STL-1-350-8-01	STL-3-350-8-01	STL-6-350-8-01		0.300 - 0.400	7.6 - 10.2	0.500	12.7	0.910	23.1	1000
STL-450-3-01	STL-1-450-3-01	STL-3-450-3-01	STL-6-450-3-01		0.400 - 0.500	10.2 - 12.7	0.187	4.8	1.090	27.7	1000
STL-450-8-01	STL-1-450-8-01	STL-3-450-8-01	STL-6-450-8-01		0.400 - 0.500	10.2 - 12.7	0.500	12.7	1.090	27.7	1000
STL-600-3-01	STL-1-600-3-01	STL-3-600-3-01	STL-6-600-3-01		0.500 - 0.600	12.7 - 15.2	0.187	4.8	1.280	32.5	1000
STL-600-8-01	STL-1-600-8-01	STL-3-600-8-01	STL-6-600-8-01		0.500 - 0.600	12.7 - 15.2	0.500	12.7	1.280	32.5	1000
STL-750-3-01	STL-1-750-3-01	STL-3-750-3-01	STL-6-750-3-01		0.700 - 0.800	17.8 - 20.3	0.187	4.8	1.450	36.8	1000
STL-750-8-01	STL-1-750-8-01	STL-3-750-8-01	STL-6-750-8-01		0.700 - 0.800	17.8 - 20.3	0.500	12.7	1.450	36.8	1000

BHKL Series
Fir-Tree Curly Lock

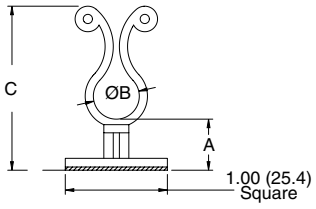


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- To press fit in a .312 (7.9) Ø hole in a .250 (6.4) minimum panel thickness

Features:
- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion

Item No.	Approval	Ø B Bundle		A		C Ref.		Bulk Pack Qty
		in	mm	in	mm	in	mm	
BHKL-350-4-01		0.300 - 0.400	7.6 - 10.2	0.250	6.4	1.000	25.4	1000
BHKL-350-10-01		0.300 - 0.400	7.6 - 10.2	0.625	15.9	1.000	25.4	1000
BHKL-450-4-01		0.400 - 0.500	10.2 - 12.7	0.250	6.4	1.125	28.6	1000
BHKL-450-6-01		0.400 - 0.500	10.2 - 12.7	0.375	9.5	1.125	28.6	1000
BHKL-750-4-01		0.700 - 0.800	17.8 - 20.3	0.250	6.4	1.500	38.1	1000
BHKL-750-6-01		0.700 - 0.800	17.8 - 20.3	0.375	9.5	1.500	38.1	1000

KLBS Series
Adhesive Mount Standoff Curly Lock

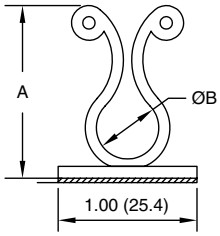


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion

Item No.	Approval	A		Ø B Bundle		C Ref.		Bulk Pack Qty
		in	mm	in	mm	in	mm	
KLBS-350-401A		0.250	6.4	0.300 - 0.400	7.6 - 10.2	1.281	32.5	1000
KLBS-3508-01A		0.500	12.7	0.300 - 0.400	7.6 - 10.2	1.531	38.9	1000
KLBS-35012-01A		0.750	19.1	0.300 - 0.400	7.6 - 10.2	1.781	45.2	1000
KLBS-35016-01A		1.000	25.4	0.300 - 0.400	7.6 - 10.2	2.031	51.6	1000

KLB Series
Adhesive Mount Curly Lock

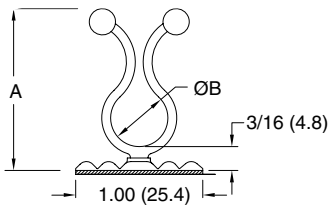


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Cables are locked in place with a fingertip twist
- Cables are easily removable with another fingertip twist
- Quick mounting adhesive base does not require through-hole

Item No.	Approval	Ø B Bundle in	Ø B Bundle mm	A Ref. in	A Ref. mm	Base Depth in	Base Depth mm	Bulk Pack Qty
KLB-350A-RT		0.300 - 0.400	7.6 - 10.2	1.070	27.2	0.510	13.0	1000
KLB-450A-RT		0.400 - 0.500	10.2 - 12.7	1.230	31.2	0.510	13.0	1000
KLB-750A-RT		0.700 - 0.800	17.8 - 20.3	1.580	40.1	0.510	13.0	1000

TLFB Series
Twist Lock on Flexible Adhesive Base

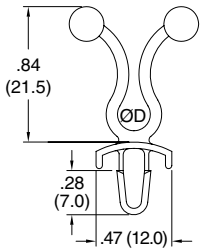


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Flexible rubber based adhesive base can be mounted onto contoured surfaces
- Cables are locked into place with a fingertip twist

Item No.	Ø B Bundle in	Ø B Bundle mm	A Ref. in	A Ref. mm	Base Depth in	Base Depth mm	Bulk Pack Qty
TLFB-350-01A1	0.300 - 0.400	0.08 - 10.2	1.150	29.3	0.500	12.7	1000
TLFB-450-01A1	0.400 - 0.500	10.2 - 12.7	1.270	32.3	0.500	12.7	1000
TLFB-750-01A1	0.700 - 0.800	17.8 - 20.3	1.610	40.9	0.500	12.7	1000

TLJ Series
Snap In Twist Lock



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling

Item No.	Approval	D Ø Bundle In	D Ø Bundle mm	Ø Mounting Hole In	Ø Mounting Hole mm	Panel Thickness In	Panel Thickness mm	Bulk Pack Qty
TLJ-200-01		0.500-0.600	12.7-15.2	0.187	4.8	0.031 - 0.078	0.8 - 2.0	1000

SKL/SKLO Series
Side Entry & 45° Curly Lock

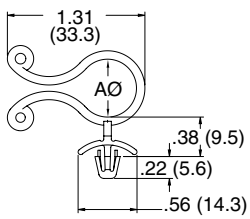


Figure 1

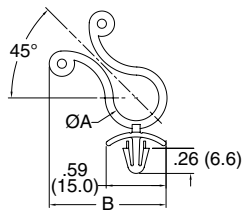


Figure 2

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Mounting Hole: .187 (4.8)
- Panel Thickness: .031 - .078 (0.8 - 2.0)

Features:
- Gathers and routes wires
- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Eases installation in hard to reach places

Item No.	Approval	Figure	Ø A Bundle in	Ø A Bundle mm	B Ref. in	B Ref. mm	Bulk Pack Qty
SKLO-550-01		1	0.500 - 0.600	12.7 - 15.2	See Figure 1		1000
SKL45-250		2	0.150 - 0.250	3.8 - 6.35	0.980	24.9	1000
SKL45-350		2	0.300 - 0.400	7.6 - 10.0	1.070	27.2	1000
SKL45-450		2	0.400 - 0.470	10.0 - 12.0	1.120	28.4	1000

TWIST TIES

KLH/TLH/TLHE Series
Screw Mount Hinged Twist Lock

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Hinged design makes it easier to adjust your wire angles as needed for the application
- Screw mount design for easy and fast assembly

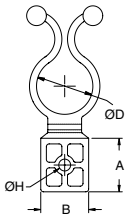


Figure 1

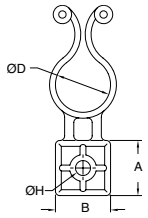


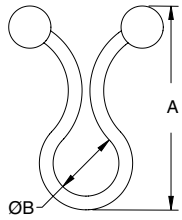
Figure 2

Item No.	Approval	Ø D Bundle in	Ø D Bundle mm	Ø H Hole in	Ø H Hole mm	Recommended Screw Size	A in	A mm	B in	B mm	Figure	Bulk Pack Qty
TLH-800-01	ᵁᴸ	0.750 - 0.850	19.0 - 21.6	0.160	4.1	#6 or M3	0.75	19.0	0.67	17.0	1	1000
TLH-500-01	—	0.450 - 0.550	11.4 - 14.0	0.170	4.2	#8 or M4	0.56	14.2	0.55	14.0	1	1000
TLHE-1-750-01	—	0.700 - 0.800	17.8 - 20.3	0.204	5.2	#10 or M5	0.75	19.0	0.67	17.0	1	1000
KLH-750-01	ᵁᴸ	0.700 - 0.800	17.8 - 20.3	0.204	5.2	#10 or M5	0.75	19.0	0.75	19.0	2	1000

TL/TT Series
Twist Lock

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Smooth ball shaped ends won't cut into wire or cable insulation



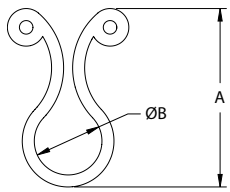
Item No.	Approval	Ø B Bundle in	Ø B Bundle mm	A Ref. in	A Ref. mm	Bulk Pack Qty
TT001A	—	0.150 - 0.190	3.8 - 4.8	0.85	21.6	100
TL-250	ᵁᴸ	0.200 - 0.300	5.1 - 7.6	0.90	22.9	1000
TL-350	ᵁᴸ	0.300 - 0.400	7.6 - 10.2	1.03	26.1	1000
TL-450	ᵁᴸ	0.400 - 0.500	10.2 - 12.7	1.20	30.5	1000
TL-600	ᵁᴸ	0.550 - 0.650	14.0 - 16.5	1.33	33.7	1000
TL-750	ᵁᴸ	0.700 - 0.800	17.8 - 20.3	1.55	39.4	1000
TL-950	ᵁᴸ	Max 1.000	25.4	1.70	43.4	1000
TL-1125	ᵁᴸ	Max 1.187	30.2	2.19	55.6	1000
TL-1375	ᵁᴸ	Max 1.437	36.5	2.68	68.1	1000
TL-1500	ᵁᴸ	Max 1.562	39.7	2.93	74.4	1000
TL-1750	ᵁᴸ	Max 1.812	46.0	3.45	87.6	1000

KL Series
Curly Lock

ᵁᴸ

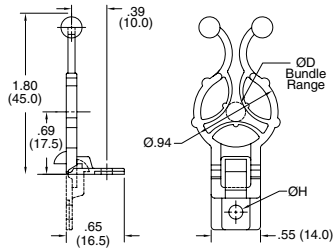
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion



Item No.	Approval	Ø B Bundle in	Ø B Bundle mm	A Ref. in	A Ref. mm	Bulk Pack Qty
KL-125	ᵁᴸ	0.125 - 0.150	3.2 - 3.8	0.48	12.2	1000
KL-200	ᵁᴸ	0.160 - 0.240	4.1 - 6.1	0.82	20.7	1000
KL-250	ᵁᴸ	0.200 - 0.300	5.1 - 7.6	0.91	23.0	1000
KL-350	ᵁᴸ	0.300 - 0.400	7.6 - 10.2	1.03	26.2	1000
KL-450	ᵁᴸ	0.400 - 0.500	10.2 - 12.7	1.20	30.5	1000
KL-600	ᵁᴸ	0.550 - 0.650	14.0 -16.5	1.25	31.8	1000
KL-750	ᵁᴸ	0.700 - .0800	17.8 - 20.3	1.52	38.6	1000
KL-950	ᵁᴸ	0.900 - 1.000	22.9 - 25.4	1.75	44.5	1000

WTLH Series
Webbed Hinged Twist Lock

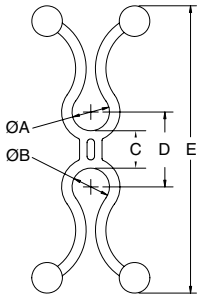


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Once clamp is hinged, it locks into position
- Webbed design provides a positive lock

Item No.	Ø Bundle D		Ø H Hole		Recommended Screw Size	Bulk Pack Qty
	in	mm	in	mm		
WTLH90-300-4-01	0.140 - 0.480	3.6 - 12.2	0.130	3.3	#4 or M3	500
WTLH90-300-6-01	0.140 - 0.480	3.6 - 12.2	0.150	3.8	#6 or M3.5	500
WTLH90300-M4-01	0.140 - 0.480	3.6 - 12.2	0.170	4.3	#8 or M4	500

DTL Series
Dual Twist Lock

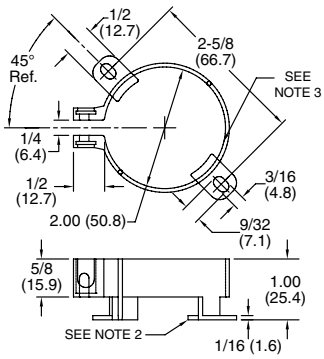


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Routes and separates two bundles
- Six bundle diameter ranges; from .20” - .80”
- Three spacer lengths; 1/4”, 3/4” and 1-1/4”
- Cables are locked in place with a fingertip twist

Item No.	Ø A and Ø B Bundle		C		D Ref.		E Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
DTL2525-4-01	0.200 - 0.300	5.1 - 7.6	0.250	6.4	0.50	12.7	1.92	48.8	500
DTL2525-12-01	0.200 - 0.300	5.1 - 7.6	0.750	19.1	1.00	25.4	2.42	61.5	500
DTL2525-20-01	0.200 - 0.300	5.1 - 7.6	1.250	31.8	1.50	38.1	2.92	74.2	500
DTL3535-4-01	0.300 - 0.400	7.6 - 10.2	0.250	6.4	0.60	15.2	2.18	55.4	500
DTL3535-12-01	0.300 - 0.400	7.6 - 10.2	0.750	19.1	1.10	27.9	2.68	68.1	500
DTL3535-20-01	0.300 - 0.400	7.6 - 10.2	1.250	31.8	1.60	40.6	3.18	80.8	500
DTL4545-4-01	0.400 - 0.500	10.2 - 12.7	0.250	6.4	0.60	15.2	2.18	55.4	500
DTL4545-12-01	0.400 - 0.500	10.2 - 12.7	0.750	19.1	1.10	27.9	2.68	68.1	500
DTL4545-20-01	0.400 - 0.500	10.2 - 12.7	1.250	31.8	1.60	40.6	3.18	80.8	500
DTL5555-4-01	0.500 - 0.600	12.7 - 15.2	0.250	6.4	0.60	15.2	2.18	55.4	500
DTL5555-12-01	0.500 - 0.600	12.7 - 15.2	0.750	19.1	1.10	27.9	2.68	68.1	500
DTL5555-20-01	0.500 - 0.600	12.7 - 15.2	1.250	31.8	1.60	40.6	3.18	80.8	500
DTL6565-4-01	0.600 - 0.700	15.2 - 17.8	0.250	6.4	0.60	15.2	2.18	55.4	500
DTL6565-12-01	0.600 - 0.700	15.2 - 17.8	0.750	19.1	1.10	27.9	2.68	68.1	500
DTL6565-20-01	0.600 - 0.700	15.2 - 17.8	1.250	31.8	1.60	40.6	3.18	80.8	500
DTL7575-4-01	0.700 - 0.800	17.8 - 20.3	0.250	6.4	1.00	25.4	3.10	78.7	500
DTL7575-12-01	0.700 - 0.800	17.8 - 20.3	0.750	19.1	1.50	38.1	3.60	91.4	500
DTL7575-20-01	0.700 - 0.800	17.8 - 20.3	1.250	31.8	2.00	50.8	4.10	104.1	500

SCH/SCHS Series
Standoff Capacitor Holder



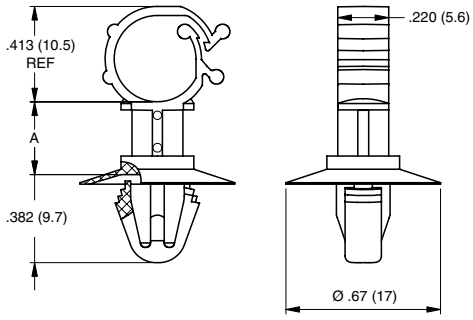
Specifications:
- Material: UL94 HB Glass Filled Nylon 6/6
- Color: Black

Optional:
1. Clamping hardware; Screw (S6B) Stainless Steel, Zinc Plating; Quick Nut (QN-6) Spring Steel C1050, Coating: Black Phosphate
2. Spacer to elevate capacitor 3/32 (2.4) from chassis
3. Anti-rotation rib (3 locations)

Item No.	Description	Bulk Pack Qty
SCHS-2	w/ Spacer, w/o Hardware (see 1 above)	100
SCH-2	w/o Spacer, w/o Hardware	100
SCHS-2-H	w/ Spacer, w/ Clamping Hardware	100
SCH-2-H	w/o Spacer, w/ Clamping Hardware	100

CABLE CLIPS & CLEATS

SCC Series
Standoff Cable Clip Side Entry

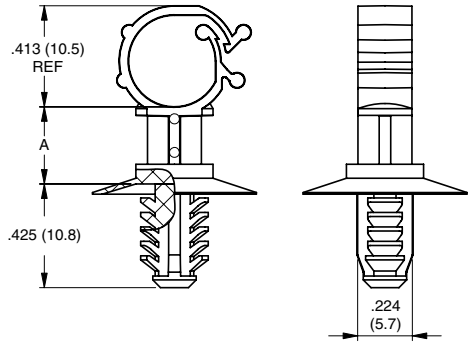


Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:
- Different spacer heights to lift cables away from other components
- Cables securely held in place

Item No.	A		Ø Mounting Hole		Panel Thickness Range		Ø Max Bundle		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
SCC-SE-4-19	0.157	4.0	0.256 - 0.276	6.5 - 7.0	0.031 - 0.049	0.8 - 1.25	0.354	9.0	1000
SCC-SE-8-19	0.315	8.0	0.256 - 0.276	6.5 - 7.0	0.031 - 0.049	0.8 - 1.25	0.354	9.0	1000
SCC-SE-10-19	0.394	10.0	0.256 - 0.276	6.5 - 7.0	0.031 - 0.049	0.8 - 1.25	0.354	9.0	1000
SCC-SE-12-19	0.472	12.0	0.256 - 0.276	6.5 - 7.0	0.031 - 0.049	0.8 - 1.25	0.354	9.0	1000

SCCBH Series
Standoff Cable Clip Side Entry



Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:
- Different spacer heights to lift cables away from other components
- Cables securely held in place

Item No.	A		Ø Mounting Hole		Min. Panel Thickness		A		Ø Max Bundle		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
SCCBH-SE-4-19	0.157	4.0	0.256	6.5	0.028	0.7	0.157	4.0	0.354	9.0	1000
SCCBH-SE-8-19	0.315	8.0	0.256	6.5	0.028	0.7	0.315	8.0	0.354	9.0	1000
SCCBH-SE-10-10	0.394	10.0	0.256	6.5	0.028	0.7	0.394	10.0	0.354	9.0	1000
SCCBH-SE-12-19	0.472	12.0	0.256	6.5	0.028	0.8	0.472	12.0	0.354	9.0	1000

Cable Cleats

Specifications:
- Material: Low-Density Polyethylene
- Color: Black

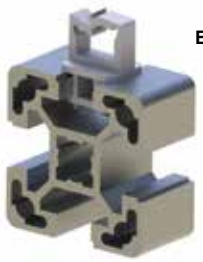
Features:
- Offers a high-strength cable restraint
- Secures cables from various forces and provides strain relief
- Corrosion resistant

Item No.	Size	Max. Cable Size		For Bolt Size		Bulk Pack Qty
		in	mm	in	mm	
12875	3	0.299	7.6	1/4	M6	100
12876	4	0.398	10.0	1/4	M6	100
12877	5	0.500	12.7	1/4	M6	100
12848	6	0.598	15.2	1/4	M6	100
12878	7	0.701	17.8	1/4	M6	100
12879	8	0.799	20.3	1/4	M6	100
12880	9	0.898	22.8	1/4	M6	100
12881	10	1.000	25.4	1/4	M6	100
12092	11	1.098	27.9	3/8	M10	50
12882	12	1.181	30.0	3/8	M10	50
12883	14	1.402	35.6	3/8	M10	50
12884	16	1.598	40.6	3/8	M10	50
12885	18	1.799	45.7	3/8	M10	50
12886	20	1.984	50.4	3/8	M10	50

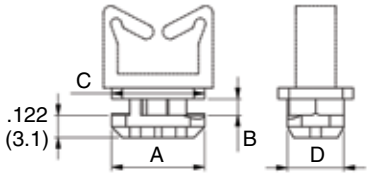
XRC Series
Cable Clips for Extruded Metal Rails

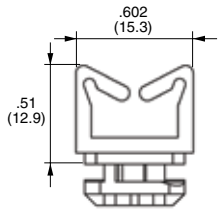
Specifications:
- Material: UL94 V-2 Glass Filled Nylon 6/6
- Color: Natural

Features:
- Several clip styles available
- Available for several different extruded rail sizes
- Two types of mounting; quarter turn or push in

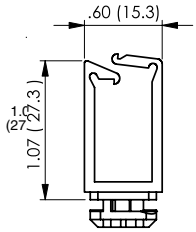


Extruded Rail

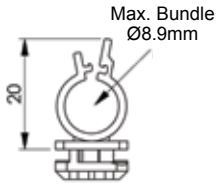




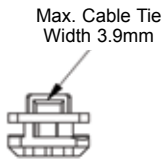
Type 1



Type 2



Type 3



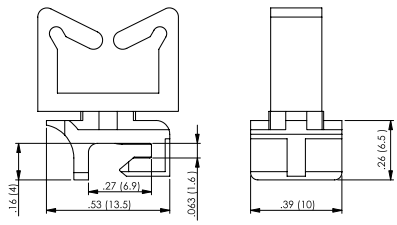
Type 4

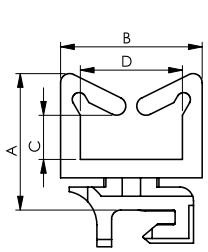
Item No.	Type	A		B		C		D		Extruded Rail Size	Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	mm	
XRC2-WS101	1	0.394	10.0	0.063	1.6	0.394	10.0	0.228	5.8	20 x 20	1000
XRC3-WS101	1	0.512	13.0	0.091	2.3	0.512	13.0	0.311	7.9	30 x 30	1000
XRC4-WS101	1	0.630	16.0	0.242	6.2	0.630	16.0	0.386	9.8	40 x 40	1000
XRC2-LWS01	2	0.394	10.0	0.063	1.6	0.394	10.0	0.228	5.8	20 x 20	1000
XRC3-LWS01	2	0.512	13.0	0.091	2.3	0.512	13.0	0.311	7.9	30 x 30	1000
XRC4-LWS01	2	0.630	16.0	0.242	6.2	0.630	16.0	0.386	9.8	40 x 40	1000
XRC2-WSLT01	3	0.394	10.0	0.063	1.6	0.394	10.0	0.228	5.8	20 x 20	1000
XRC3-WSLT01	3	0.512	13.0	0.091	2.3	0.512	13.0	0.311	7.9	30 x 30	1000
XRC4-WSLT01	3	0.630	16.0	0.242	6.2	0.630	16.0	0.386	9.8	40 x 40	1000
XRC2-TH01	4	0.394	10.0	0.063	1.6	0.394	10.0	0.228	5.8	20 x 20	1000
XRC3-TH01	4	0.512	13.0	0.091	2.3	0.512	13.0	0.311	7.9	30 x 30	1000
XRC4-TH01	4	0.630	16.0	0.242	6.15	0.630	16.0	0.386	9.8	40 x 40	1000

DRC Series
DIN Rail Wire Saddles

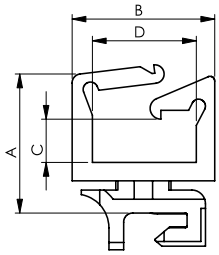
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- For use in all common DIn rail profiles
- Can be retrofitted to current installations

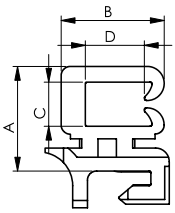




Type 1



Type 2



Type 3

Item No.	Type	A		B		C		D			Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	Din Rail Style	
DRCC-WS01	1	0.583	14.8	0.606	15.4	0.189	4.8	0.437	11.1	C-Profile	1000
DRCC-LWS01	2	0.594	15.1	0.610	15.5	0.142	3.6	0.445	11.3	C-Profile	1000
DRCC-SEC01	3	0.449	11.4	0.441	11.2	0.189	4.8	0.252	6.4	C-Profile	1000
DRCT-WS01	1	0.583	14.8	0.606	15.4	0.189	4.8	0.437	11.1	Top Hat Profile	1000
DRCT-LWS01	2	0.594	15.1	0.610	15.5	0.142	3.6	0.445	11.3	Top Hat Profile	1000
DRCT-SEC01	3	0.449	11.4	0.441	11.2	0.189	4.8	0.252	6.4	Top Hat Profile	1000
DRCG-WS01	1	0.583	14.8	0.606	15.4	0.189	4.8	0.437	11.1	G-Profile	1000
DRCG-LWS01	2	0.594	15.1	0.610	15.5	0.142	3.6	0.445	11.3	G-Profile	1000
DRCG-SEC01	3	0.449	11.4	0.441	11.2	0.189	4.8	0.252	6.4	G-Profile	1000

WIRE SADDLES

WS-SR/LWS-SR Series
Wire Saddle - Snap Rivet Mount

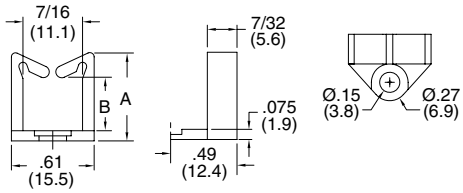


Figure 1

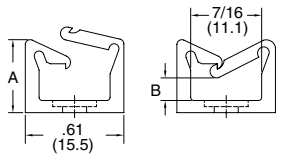


Figure 2

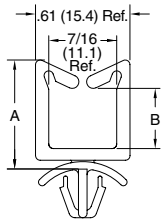
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

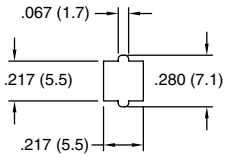
Features:
- Designed to mount easily on chassis with plastic SR rivet (See Table) or a #6 screw
- Allows mounting to a wide range of panel thicknesses; up to 0.219" thick

Use Essentra Rivet Number	Chassis Thickness Range	
	in	mm
SR-3535	0.010 - 0.046	0.3 - 1.2
SR-3545	0.046 - 0.081	1.2 - 2.1
SR-3550	0.069 - 0.105	1.8 - 2.7
SR-3555	0.081 - 0.120	2.1 - 3.7
SR-3560	0.109 - 0.144	2.8 - 3.7
SR-3570	0.140 - 0.180	3.6 - 4.6
SR-3580	0.180 - 0.219	4.6 - 5.6

Item No.	Figure	A		B		Ø Mounting Hole		Bulk Pack Qty
		in	mm	in	mm	in	mm	
WS-SR-1-01	1	0.45	11.4	0.17	4.3	0.142 - 0.146	3.6 - 3.7	1000
LWS-SR-1-01	2	0.45	11.4	0.14	3.6	0.142 - 0.146	3.6 - 3.7	1000
WS-SR-2-01	1	0.64	16.3	0.36	9.1	0.142 - 0.146	3.6 - 3.7	1000
LWS-SR-2-01	2	0.64	16.3	0.34	8.6	0.142 - 0.146	3.6 - 3.7	1000
WS-SR-3-01	1	1.00	25.4	0.73	18.5	0.142 - 0.146	3.6 - 3.7	1000
LWS-SR-3-01	2	1.00	25.4	0.72	18.3	0.142 - 0.146	3.6 - 3.7	1000
WS-SR-4-01	1	1.31	33.3	1.04	26.4	0.142 - 0.146	3.6 - 3.7	1000
LWS-SR-4-01	2	1.31	33.3	1.00	25.4	0.142 - 0.146	3.6 - 3.7	1000

WS-SH Series
Wire Saddle - Square Hole Mount





Mounting Hole

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Mounts into a square hole to prevent rotation

Item No.			Panel Thickness		A Ref.		B Ref.		Depth		Bulk Pack Qty
UL94 V-2	UL94 V-0	Approval	in	mm	in	mm	in	mm	in	mm	
WS-SH-1-01	WS-SH-1-19		0.031 - 0.078	0.8 - 2.0	0.51	13.0	0.19	4.8	0.219	5.6	1000
WS-SH-2-01	WS-SH-2-19		0.031 - 0.078	0.8 - 2.0	0.70	17.8	0.39	10.0	0.219	5.6	1000
WS-SH-3-01	WS-SH-3-19		0.031 - 0.078	0.8 - 2.0	1.06	26.9	0.75	19.1	0.219	5.6	1000
WS-SH-4-01	WS-SH-4-19		0.031 - 0.078	0.8 - 2.0	1.37	34.8	1.07	27.2	0.219	5.6	1000

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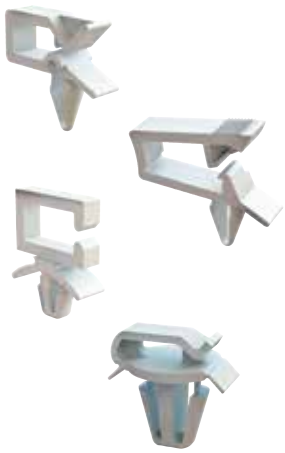
WS-SE Series
Wire Saddle - Side Entry



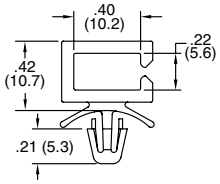


Figure 1

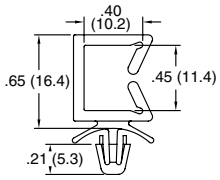


Figure 2

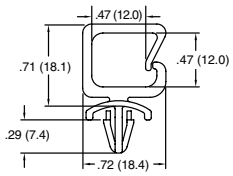


Figure 3

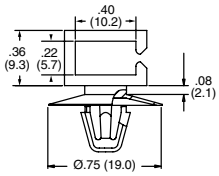


Figure 4

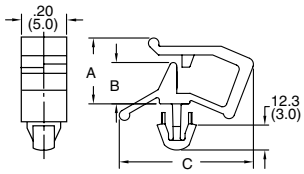


Figure 5

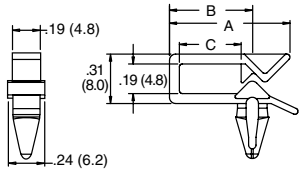


Figure 6

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Gathers and routes single or groups of wires and cables
- Side entry provides low height where clearance is a problem

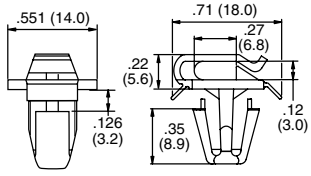


Figure 7

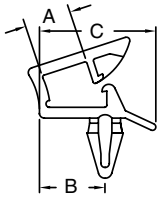


Figure 8

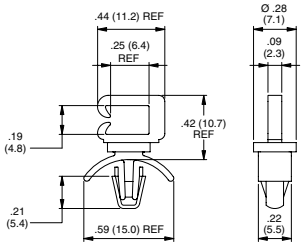
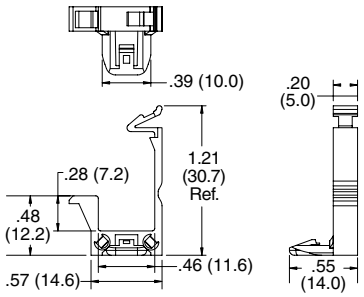


Figure 9

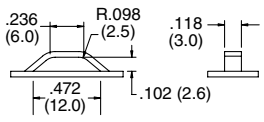
Item No.				A Ref.		B		C Ref.		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 V-2	UL94 V-0	Approval	Figure	in	mm	in	mm	in	mm	in	mm	in	mm	
WS-SE-A-1-01	WS-SE-A-1-19	—	1	—	—	—	—	—	—	0.187	4.8	0.031 - 0.078	0.8 - 2.0	1000
WS-SE-A-2-01	WS-SE-A-2-19	—	2	—	—	—	—	—	—	0.187	4.8	0.031 - 0.078	0.8 - 2.0	1000
WS-SE-A-3-01	WS-SE-A-3-19	—	3	—	—	—	—	—	—	0.187	4.8	0.024 - 0.071	0.6 - 1.8	1000
WS-SE-A-4-01	WS-SE-A-4-19	—	4	—	—	—	—	—	—	0.256	6.5	0.031 - 0.078	0.8 - 2.0	1000
WS-SE1-1-01	—	ᵲᵳ	5	0.19	4.8	0.09	2.4	0.50	12.7	0.138	3.5	0.020 - 0.063	0.5 - 1.6	1000
WS-SE1-2-01	—	ᵲᵳ	5	0.26	6.7	0.16	4.2	0.59	15.1	0.138	3.5	0.020 - 0.063	0.5 - 1.6	1000
WS-SE1-3-01	—	ᵲᵳ	5	0.34	8.5	0.23	5.7	0.81	20.3	0.138	3.5	0.020 - 0.063	0.5 - 1.6	1000
WS-SE2-1-01	—	ᵲᵳ	6	0.65	16.6	0.41	10.5	0.28	7.1	0.187	4.8	0.020 - 0.063	0.5 - 1.6	1000
WS-SE2-2-01	—	ᵲᵳ	6	0.77	19.5	0.53	13.4	0.39	10.0	0.187	4.8	0.020 - 0.063	0.5 - 1.6	1000
WS-SE3-1-01	—	—	7	—	—	—	—	—	—	0.314	8.0	0.062 - 0.102	1.6 - 2.6	1000
LWS-SE2-1-01	—	ᵲᵳ	8	0.27	6.9	0.38	9.7	0.67	17.0	0.187	4.8	0.020 - 0.063	0.5 - 1.6	1000
LWS-SE2-2-01	—	ᵲᵳ	8	0.40	10.2	0.53	13.5	0.8	20.8	0.187	4.8	0.020 - 0.063	0.5 - 1.6	1000
	WS-SE-C-1-19	—	9	—	—	—	—	—	—	0.187	4.8	0.031 - 0.078	0.8 - 2.0	1000

SMWSLT Series
Side Mount Wire Saddle



Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:
- No protrusion through the chassis
- No risk of rotation
- Easy to install
- Removable by depressing locking tab
- Cables are locked in place yet easily removed



Mounting Dimensions

Item No.	Bulk Pack Qty
SMWSLT-1-19	1000

WIRE SADDLES

WS/WWS/WSBH Series
Wire Saddle

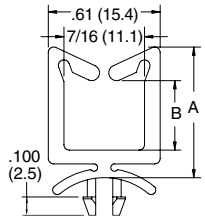


Figure 1

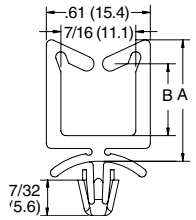


Figure 2

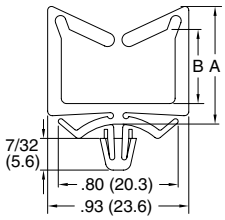


Figure 3

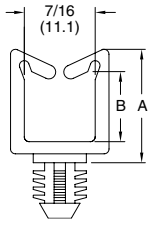


Figure 4

Specifications:
- Material: Nylon 6/6
- Color: Natural
- Depth: 0.22 (5.6)

Features:
- Gathers and routes cables or wires
- WSBH parts are designed to mount in blind holes

Item No.				A Ref.		B Ref.		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94V-2	UL94 V-0	Approval	Figure	in	mm	in	mm	in	mm	in	mm	
WS-1-01	WS-1-19		1	0.52	13.2	0.19	4.8	0.187	4.8	0.062	1.6	1000
WS-A-1-01	WS-A-1-19		2	0.52	13.2	0.19	4.8	0.187	4.8	0.062	1.6	1000
WSBH-1-01	—		4	0.52	13.2	0.19	4.8	0.312	7.9	0.250	6.4	1000
WS-2-01	WS-2-19		1	0.71	18.0	0.38	9.7	0.187	4.8	0.062	1.6	1000
WS-A-2-01	WS-A-2-19		2	0.71	18.0	0.38	9.7	0.187	4.8	0.062	1.6	1000
WS-A-2-1-01	WS-A-2-1-19		2	0.71	18.0	0.38	9.7	0.187	4.8	0.062	1.6	1000
WS-A-2-2-01	WS-A-2-2-19		2	0.71	18.0	0.38	9.7	0.187	4.8	0.125	3.2	1000
WSBH-2-01	—		4	0.71	18.0	0.38	9.7	0.312	7.9	0.250	6.4	1000
WWS-A-2-01	WWS-A-2-19		3	0.77	19.6	0.50	12.7	0.187	4.8	0.047	1.19	1000
WS-3-01	WS-3-19		1	1.07	27.2	0.74	18.8	0.187	4.8	0.062	1.6	1000
WS-A-3-01	WS-A-3-19		2	1.07	27.2	0.74	18.8	0.187	4.8	0.062	1.6	1000
WS-A-2-3-01	WS-A-2-3-19		2	1.07	27.2	0.74	18.8	0.187	4.8	0.125	3.2	1000
WSBH-3-01	—		4	1.07	27.2	0.74	18.8	0.312	7.9	0.250	6.4	1000
WWS-A-3-01	WWS-A-3-19		3	1.12	28.5	0.85	21.6	0.187	4.8	0.047	1.19	1000
WS-4-01	WS-4-19		1	1.38	35.0	1.05	26.7	0.187	4.8	0.062	1.6	1000
WS-A-4-01	WS-A-4-19		2	1.38	35.0	1.05	26.7	0.187	4.8	0.062	1.6	1000
WS-A-2-4-01	WS-A-2-4-19		2	1.38	35.0	1.05	26.7	0.187	4.8	0.125	3.2	1000
WSBH-4-01	—		4	1.38	35.0	1.05	26.7	0.312	7.9	0.250	6.4	1000

WS-9/LWS-9 Series
Quarter-Turn Wire Saddle

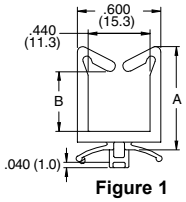


Figure 1

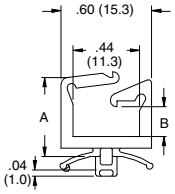
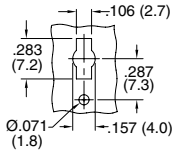


Figure 2

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Depth: 0.22 (5.6)

Features:
- Easily inserted and removed by turning 90°
- Low protrusion under board, only 1mm
- Available in locking and non-locking styles

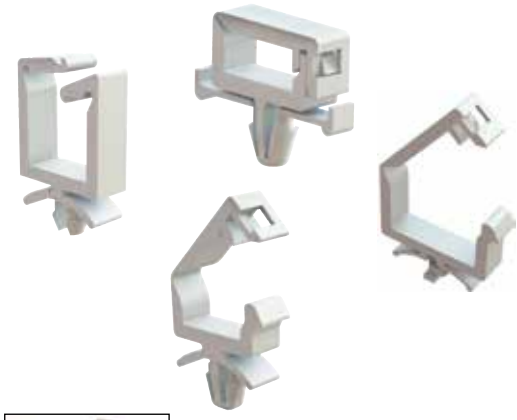


Mounting Hole Detail

Item No.	Figure	A Ref.		B Ref.		Panel Thickness		Bulk Pack Qty
		in	mm	in	mm	in	mm	
WS-9-1-01	1	0.51	13.0	0.19	4.8	0.031 - 0.063	0.8 - 1.6	1000
WS-9-2-01	1	0.70	17.8	0.39	10.0	0.031 - 0.063	0.8 - 1.6	1000
WS-9-3-01	1	1.06	26.9	0.75	19.1	0.031 - 0.063	0.8 - 1.6	1000
WS-9-4-01	1	1.37	34.8	1.07	27.2	0.031 - 0.063	0.8 - 1.6	1000
LWS-9-1-01	2	0.51	13.0	0.15	3.8	0.031 - 0.063	0.8 - 1.6	1000
LWS-9-2-01	2	0.70	17.8	0.39	9.8	0.031 - 0.063	0.8 - 1.6	1000
LWS-9-3-01	2	1.06	26.9	0.75	19.1	0.031 - 0.063	0.8 - 1.6	1000
LWS-9-4-01	2	1.37	34.8	1.07	27.2	0.031 - 0.063	0.8 - 1.6	1000

LWS/WSLT Series
Locking Wire/Cable Saddle

EXPANDED LINE



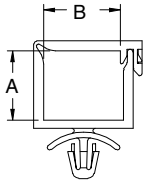
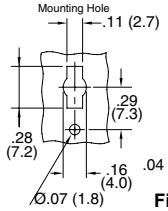


Figure 1



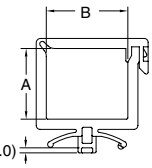


Figure 2

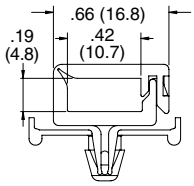


Figure 3

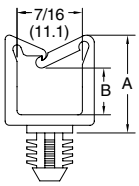


Figure 4

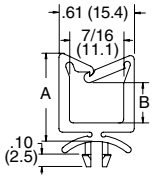


Figure 5

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Cables are locked in place yet easily removable
- WSLT-9 includes a quarter-turn base
- WSLTRA has a releasable arrow-head for easy removal

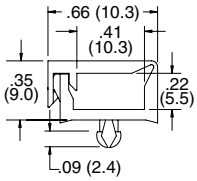


Figure 7

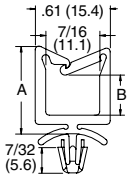


Figure 8

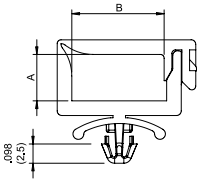
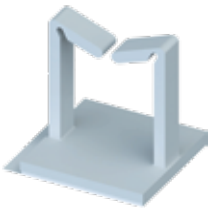


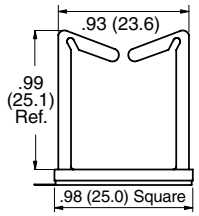
Figure 9

Item No.				A		B		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 V-2	UL94 V-0	Approval	Figure	in	mm	in	mm	in	mm	in	mm	
• WSLC-1-01	—	—	9	0.079	6.0	0.236	6.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
WSLT-3.5-2-1-01	WSLT-3.5-2-1-19		1	0.140	3.4	0.530	13.5	0.138	3.5	0.031 - 0.078	0.8 - 2.0	1000
WSLT-02-1-01	WSLT-02-1-19		1	0.140	3.4	0.530	13.5	0.187	4.8	0.031 - 0.078	0.8 - 1.98	1000
WSLT-9-02-1-01	—	—	2	0.140	3.6	0.530	13.5	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
• WSLC-2-01	—	—	9	0.157	4.0	0.236	6.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
• WSLC-3-01	—	—	9	0.157	4.0	0.354	9.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
• WSLC-5-01	—	—	9	0.157	4.0	0.472	12.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
WSLT-01A-01	WSLT-01A-19		1	0.190	4.8	0.420	10.7	0.187	4.8	0.031 - 0.078	0.8 - 1.98	1000
WSLT-9-01A-01	—	—	2	0.190	4.8	0.420	10.7	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
• WSLC-4-01	—	—	9	0.236	6.0	0.354	9.00	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
• WSLC-6-01	—	—	9	0.236	6.0	0.472	12.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
WSLT-01-2-01	WSLT-01-2-19		1	0.350	8.8	0.420	10.7	0.187	4.8	0.031 - 0.078	0.8 - 1.98	1000
WSLT-9-01-2-01	—	—	2	0.360	9.1	0.420	10.7	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
WSLT-02A-01	WSLT-02A-19		1	0.390	10.0	0.640	16.3	0.187	4.8	0.031 - 0.078	0.8 - 1.98	1000
WSLT-9-02A-1-01	—	—	2	0.390	10.0	0.640	16.3	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
LWS-1-01	LWS-1-19		4	0.520	13.2	0.140	3.6	0.187	4.8	0.062	1.6	1000
LWSBH-1-01	—		5	0.520	13.2	0.140	3.6	0.312	7.9	0.250	6.4	1000
LWS-A-1-01	LWS-A-1-19		8	0.520	13.2	0.140	3.6	0.187	4.8	0.062	1.6	1000
LWS-A-2-1-01	LWS-A-2-1-19		8	0.520	13.2	0.140	3.6	0.187	4.8	0.125	3.2	1000
WSLT-03-2-01	WSLT-03-2-19		1	0.550	14.1	0.640	16.3	0.187	4.8	0.062	1.6	1000
WSLT-9-03-2-01	—	—	2	0.560	14.1	0.640	16.3	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
LWS-2-01	LWS-2-19		4	0.710	18.0	0.330	8.4	0.187	4.8	0.062	1.6	1000
LWSBH-2-01	—		5	0.710	18.0	0.330	8.4	0.312	7.9	0.250	6.4	1000
LWS-A-2-01	LWS-A-2-19		8	0.710	18.0	0.330	8.4	0.187	4.8	0.062	1.6	1000
LWS-A-2-2-01	LWS-A-2-2-19		8	0.710	18.0	0.330	8.4	0.187	4.8	0.125	3.2	1000
WSLT-03-3-01	WSLT-03-3-19		1	0.850	21.7	0.710	18.0	0.187	4.8	0.031 - 0.078	0.8 - 1.98	1000
WSLT-9-03-3-01	—	—	2	0.850	21.7	0.710	18.0	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
WSLTRA-1-01	—	—	3	See Figure 3				0.187	4.8	0.062	1.6	1000
LWS-3-01	LWS-3-19		4	1.070	27.2	0.690	17.5	0.187	4.8	0.062	1.6	1000
LWSBH-3-01	—		5	1.070	27.2	0.690	17.5	0.312	7.9	0.250	6.4	1000
LWS-A-3-01	LWS-A-3-19		8	1.070	27.2	0.690	17.5	0.187	4.8	0.062	1.6	1000
LWS-A-2-3-01	LWS-A-2-3-19		8	1.070	27.2	0.690	17.5	0.187	4.8	0.125	3.2	1000
LWS-4-01	LWS-4-19		4	1.380	35.0	1.000	25.4	0.187	4.8	0.062	1.6	1000
LWSBH-4-01	—		5	1.380	35.0	1.000	25.4	0.312	7.9	0.250	6.4	1000
WSLT-T-01A-19	—	—	7	See Figure 7				0.118	3.0	0.065	1.7	1000
LWS-A-4-01	LWS-A-4-19		8	1.380	35.0	1.000	25.4	0.187	4.8	0.062	1.6	1000
LWS-A-2-4-01	LWS-A-2-4-19		8	1.380	35.0	1.000	25.4	0.187	4.8	0.125	3.2	1000

WIRE SADDLES

WWSB Series
Wire Saddle on Adhesive Base





Specifications:
- Material: UL94 HB Nylon 6/6
- Color: Natural

Features:
- No through-hole required
- Large capacity

Item No.	Bulk Pack Qty
WWSB-3-148A-RT	500

MWSEB/WSB/MWSB/WS-SE-B Series
Wire Saddle on Adhesive Base

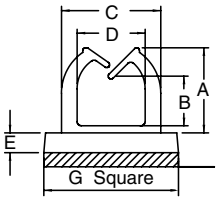


Figure 1

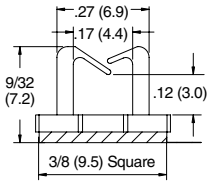


Figure 2

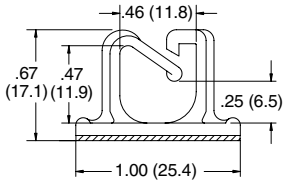


Figure 3

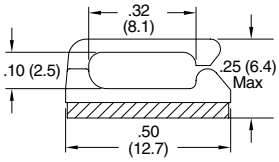


Figure 4

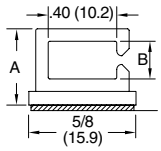


Figure 5

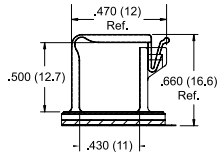


Figure 6

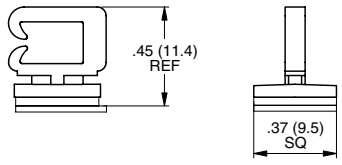


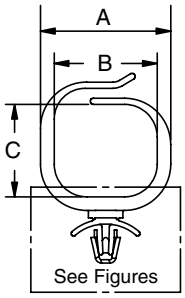
Figure 7

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Self adhesive wire saddle is designed to support lightweight wire bundles
- Small profile design is ideal for routing fiber

Item No.				A Ref.		B Ref.		C Ref.		D Ref.		E Ref.		G Ref.		Depth		Bulk Pack
UL94 V-2	UL94 V-0	Approval	Figure	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	Qty
MWSEB-1-01A-RT	MWSEB-1-19A-RT		1	0.16	4.0	0.05	1.3	0.28	7.0	0.19	4.8	0.06	1.6	0.37	9.5	See Fig. 1		1000
MWSEB-2-01A-RT	MWSEB-2-19A-RT		1	0.24	6.0	0.13	3.3	0.28	7.0	0.19	4.8	0.06	1.6	0.37	9.5	See Fig. 1		1000
MWSEB-3-01A-RT	MWSEB-3-19A-RT		1	0.29	7.3	0.12	3.0	0.35	9.0	0.26	6.6	0.08	2.0	0.50	12.7	See Fig. 1		1000
MWSEB-4-01A-RT	MWSEB-4-19A-RT		1	0.36	9.2	0.19	4.8	0.43	10.8	0.32	8.0	0.08	2.0	0.50	12.7	See Fig. 1		1000
MWSEB-5-01A-RT	MWSEB-5-19A-RT		1	0.44	11.2	0.23	5.8	0.47	11.9	0.36	9.1	0.08	2.0	0.50	12.7	See Fig. 1		1000
MWSEB-6-01A-RT	MWSEB-6-19A-RT		1	0.51	13.0	0.33	8.4	0.47	12.0	0.36	9.2	0.08	2.0	0.50	12.7	See Fig. 1		1000
MWSB-1-01A-RT	MWSB-1-19A-RT		2	—	—	—	—	—	—	—	—	—	—	—	—	See Fig. 2		1000
WSB-2-01A-RT	—		3	—	—	—	—	—	—	—	—	—	—	—	—	0.480	12.1	1000
MWSSEB-1-01A-RT	MWSSEB-1-19A-RT		4	—	—	—	—	—	—	—	—	—	—	—	—	0.375	9.5	1000
MWSSEBE-1-01A	MWSSEBE-1-19A		4	—	—	—	—	—	—	—	—	—	—	—	—	0.500	12.7	1000
WS-SE-B-1-01A	—		5	0.45	11.4	0.22	5.6	—	—	—	—	—	—	—	—	0.375	9.5	1000
WS-SE-B-2-01A	—		5	0.675	17.1	0.450	11.4	—	—	—	—	—	—	—	—	0.375	9.5	1000
—	WSLTB-03A-19A	—	6	—	—	—	—	—	—	—	—	—	—	—	—	0.750	19.0	1000
—	WS-SE-C-19A2-RT	—	7	—	—	—	—	—	—	—	—	—	—	—	—	0.374	9.5	1000

OFNS Series
Optical Fiber Wire Saddle



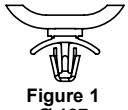


Figure 1
Ø.187

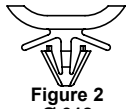


Figure 2
Ø.312

Figure 3
.307 Square

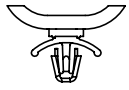


Figure 4
Ø.250

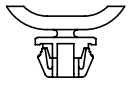
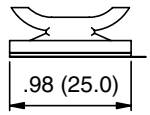


Figure 5
.374 Square



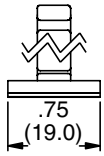


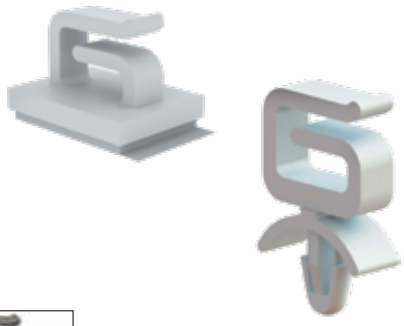
Figure 6

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- No stress is applied to fiber upon entry
- Smooth, rounded corners
- Six mounting styles

Item No.			A Ref.		B Ref.		C Ref.		Ø Mounting Hole		Panel Thickness		Depth		Bulk Pack Qty
UL94 V-2	UL94 V-0	Figure	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
OFNS-13-187-01	OFNS-13-187-19	1	1.06	26.8	0.83	21.2	0.75	19.0	0.187	4.8	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNS-13-312-01	OFNS-13-312-19	2	1.06	26.8	0.83	21.2	0.75	19.0	0.312	7.9	0.031 - 0063	0.8 - 1.6	0.27	6.9	1000
OFNS-13-250-01	OFNS-13-250-19	4	1.06	26.8	0.83	21.2	0.75	19.0	0.250	6.4	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNS13-S9.5M-01	OFNS13-S9.5M-19	5	1.06	26.8	0.83	21.2	0.75	19.0	.374 Square	9.5 Square	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNSB-13-01A-RT	OFNSB-13-19A-RT	6	1.06	26.8	0.83	21.2	0.75	19.0	Adhesive	Adhesive	Adhesive	Adhesive	0.27	6.9	500
OFNS-16-187-01	OFNS-16-187-19	1	1.35	34.3	1.13	28.7	0.99	25.1	0.187	4.8	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNS-16-312-01	OFNS-16-312-19	2	1.35	34.3	1.13	28.7	0.99	25.1	0.312	7.9	0.031 - 0.063	0.8 - 1.6	0.27	6.9	1000
OFNS-16-S307-01	OFNS-16-S307-19	3	1.35	34.3	1.13	28.7	0.99	25.1	.307 Square	7.8 Square	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNS16-S9.5M-01	OFNS16-S9.5M-19	4	1.35	34.3	1.13	28.7	0.99	25.1	.374 Square	9.5 Square	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNSB-16-01A-RT	OFNSB-16-19A-RT	6	1.35	34.3	1.13	28.7	0.99	25.1	Adhesive	Adhesive	Adhesive	Adhesive	0.27	6.9	500
OFNS28-S9.5M-01	OFNS28-S9.5M-19	5	1.35	34.3	1.13	28.7	0.99	25.1	.374 Square	9.5 Square	0.031 - 0.079	0.8 - 2.0	0.27	6.9	500

MOFNSA/MOFNSP/MOFNSB Series
Mini Optical Fiber Wire Saddle



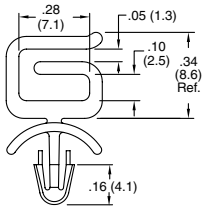


Figure 1

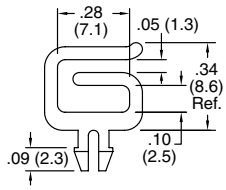
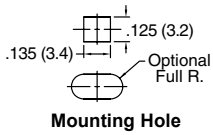


Figure 2



Mounting Hole

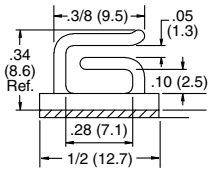


Figure 3

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Design eliminates stress to fiber upon entry
- Smooth, rounded corners

Item No.			Ø Mounting Hole		Panel Thickness		Depth		Bulk Pack Qty
UL94 V-2	UL94 V-0	Figure	in	mm	in	mm	in	mm	
MOFNSA-2-01	MOFNSA-2-19	1	0.125	3.2	0.093	2.4	0.125	3.2	1000
MOFNSP-2-01	MOFNSP-2-19	2	See Figure 2		0.063	1.6	0.125	3.2	1000
MOFNSB-2-01A-RT	MOFNSB-2-19A-RT	3	Adhesive Mount				0.375	9.5	1000

WIRE SADDLES

MWS Series
Micro Wire Saddle

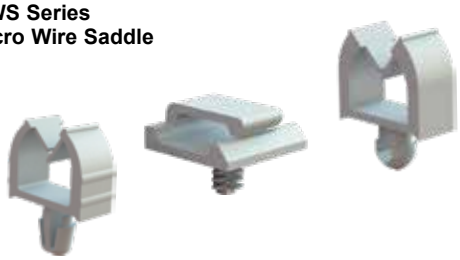


Figure 1

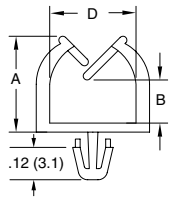


Figure 2

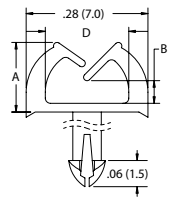


Figure 3

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Gathers and routes wires
- Small profile is ideal for routing fiber

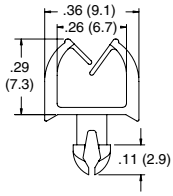


Figure 4

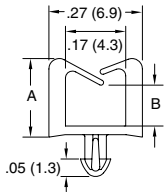


Figure 5

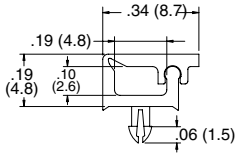


Figure 6

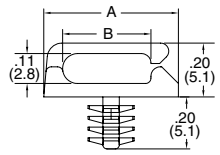
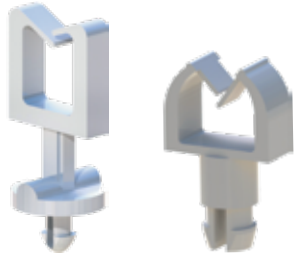


Figure 7

Item No.				A Ref.		B Ref.		D		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 V-2	UL94 V-0	Approval	Figure	in	mm	in	mm	in	mm	in	mm	in	mm	
MWSET1-1-01	MWSET1-1-19		3	0.16	4.0	0.04	0.9	0.19	4.8	0.067	1.7	0.063	1.6	1000
MWSET1-1-1-01	MWSET1-1-1-19		3	0.16	4.0	0.04	0.9	0.190	4.8	0.067	1.7	0.093	2.4	1000
MWS-1-01	MWS-1-19		5	0.23	5.8	0.12	3.0	See Figure 5		0.070	1.8	0.062	1.6	1000
MWS1-1-01	MWS1-1-19	—	5	0.23	5.8	0.12	3.0	See Figure 5		0.070	1.8	0.093	2.4	1000
MWSET1-2-01	MWSET1-2-19		3	0.24	6.0	0.11	2.9	0.19	4.8	0.067	1.7	0.063	1.6	1000
MWSET1-2-1-01	MWSET1-2-1-19		3	0.24	6.0	0.11	2.9	0.19	4.8	0.067	1.7	0.093	2.4	1000
MWSEA1-1-01	MWSEA1-1-19		1	0.29	7.3	0.12	3.0	0.26	6.6	0.118	3.0	0.063	1.6	1000
MWSEA2-1-01	MWSEA2-1-19		1	0.29	7.3	0.12	3.0	0.26	6.6	0.138	3.5	0.063	1.6	1000
MWSEA1-1-1-01	MWSEA1-1-1-19		1	0.29	7.3	0.12	3.0	0.26	6.6	0.118	3.0	0.093	2.4	1000
MWSEA2-1-1-01	MWSEA2-1-1-19		1	0.29	7.3	0.12	3.0	0.26	6.6	0.138	3.5	0.093	2.4	1000
MWSEA1-2-01	MWSEA1-2-19		1	0.36	9.1	0.16	3.9	0.32	8.1	0.118	3.0	0.063	1.6	1000
MWSEA2-2-01	MWSEA2-2-19		1	0.36	9.1	0.16	3.9	0.32	8.1	0.138	3.5	0.063	1.6	1000
MWSEA1-1-2-01	MWSEA1-1-2-19		1	0.36	9.1	0.16	3.9	0.32	8.1	0.118	3.0	0.093	2.4	1000
MWSEA2-1-2-01	MWSEA2-1-2-19		1	0.36	9.1	0.16	3.9	0.32	8.1	0.138	3.5	0.093	2.4	1000
MWSEA3-2-01	MWSEA3-2-19		2	0.36	9.1	0.16	3.9	0.32	8.1	0.138	3.5	0.063	1.6	1000
MWSEA1-3-01	MWSEA1-3-19		1	0.44	11.2	0.24	6.0	0.36	9.1	0.118	3.0	0.063	1.6	1000
MWSEA2-3-01	MWSEA2-3-19		1	0.44	11.2	0.24	6.0	0.36	9.1	0.138	3.5	0.063	1.6	1000
MWSEA1-1-3-01	MWSEA1-1-3-19		1	0.44	11.2	0.24	6.0	0.36	9.1	0.118	3.0	0.093	2.4	1000
MWSEA2-1-3-01	MWSEA2-1-3-19		1	0.44	11.2	0.24	6.0	0.36	9.1	0.138	3.5	0.093	2.4	1000
—	MWS-2-19	—	5	0.44	11.2	0.33	8.5	See Figure 5		0.070	1.8	0.063	1.6	1000
—	MWS-3-19	—	5	0.44	11.2	0.33	8.5	See Figure 5		0.070	1.8	0.087	2.2	1000
MWSEA1-4-01	MWSEA1-4-19		1	0.51	13.0	0.30	7.7	0.36	9.1	0.118	3.0	0.063	1.6	1000
MWSEA2-4-01	MWSEA2-4-19		1	0.51	13.0	0.30	7.7	0.36	9.1	0.138	3.5	0.063	1.6	1000
MWSEA1-1-4-01	MWSEA1-1-4-19		1	0.51	13.0	0.30	7.7	0.36	9.1	0.118	3.0	0.093	2.4	1000
MWSEA2-1-4-01	MWSEA2-1-4-19		1	0.51	13.0	0.30	7.7	0.36	9.1	0.138	3.5	0.093	2.4	1000
MWSET2-1-01	MWSET2-1-19		4			See Figure 4				0.118	3.0	0.039 - 0.047	1.0 - 1.2	1000
MWSET2-2-01	MWSET2-2-19		4			See Figure 4				0.118	3.0	0.047 - 0.063	1.2 - 1.6	1000
MWSLT-1-01	MWSLT-1-19	—	6			See Figure 6				0.067	1.7	0.063	1.6	1000
MWSLT1-1-01	MWSLT1-1-19	—	6			See Figure 6				0.067	1.7	0.093	2.4	1000
MBHWSSE-1-01	—	—	7	0.50	12.7	0.33	0.8	See Figure 7		0.156	4.0	0.040 - 0.160	1.0 - 4.1	1000
MBHWSSE-1-1-01	—	—	7	0.67	17.0	0.49	12.5	See Figure 7		0.156	4.0	0.040 - 0.160	1.0 - 4.1	1000

MWSELF/SMWS Series
Standoff Micro Wire Saddle



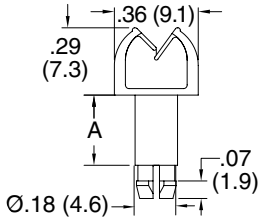


Figure 1

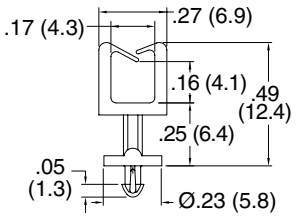


Figure 2

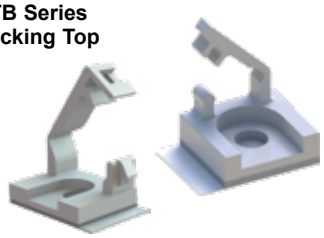
Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Gathers and routes wires
- Standoff design provides spacing between the wires and the chassis

Item No.			A		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 V-2	UL94 V-O	Figure	in	mm	in	mm	in	mm	
MWSELF-1-4.1-01	MWSELF-1-4.1-19	1	0.16	4.1	0.15	3.8	0.063	1.6	1000
MWSELF-1-7.7-01	MWSELF-1-7.7-19	1	0.30	7.7	0.15	3.8	0.063	1.6	1000
MWSELF-2-4.1-01	MWSELF-2-4.1-19	1	0.16	4.1	0.15	3.8	0.079	2.0	1000
MWSELF-2-7.7-01	MWSELF-2-7.7-19	1	0.30	7.7	0.15	3.8	0.079	2.0	1000
SMWS-1-01	SMWS-1-19	2	See Figure 2		0.07	1.8	0.062	1.6	1000
SMWS1-1-01	SMWS1-1-19	2	See Figure 2		0.07	1.8	0.093	2.4	1000

WIRE SADDLES & FLAT CABLE CLAMPS

WSLTB/MWSLTB Series
Wire Saddle Locking Top



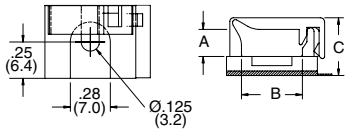


Figure 1

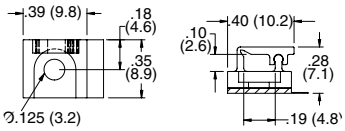


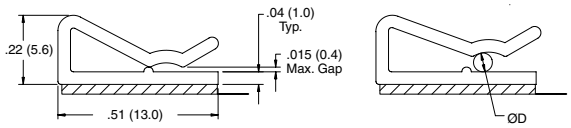
Figure 2

Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:
- Gathers, routes and locks cables and wires

Item No.	Mounting Method	Figure	A in	A mm	B in	B mm	C Ref. in	C Ref. mm	Bulk Pack Qty
WSLTB-01A-19A	Adhesive	1	0.19	4.8	0.42	10.7	0.41	10.4	1000
WSLTB-01A-19	#4 or M3 Screw or SR-30XX Rivet	1	0.19	4.8	0.42	10.7	0.38	9.6	1000
WSLTB-02A-19A	Adhesive	1	0.39	10.0	0.64	16.3	0.61	15.5	1000
WSLTB-02A-19	#4 or M3 Screw or SR-30XX Rivet	1	0.39	10.0	0.64	16.3	0.58	14.7	1000
MWSLTB-1-19A-RT	Adhesive	2	See Figure 2						1000
MWSLTB-1-19	#4 or M3 Screw or SR-30XX Rivet	2	See Figure 2						1000

SWC Series
Single Wire Clip

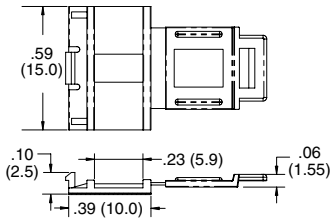


Specifications:
- Material: UL94 V-1 PPE/PS
- Color: White

Features:
- To insert or remove cable, simply lift the tip of the clamp

Item No.	Ø D Holding in	Ø D Holding mm	Base in	Base mm	Bulk Pack Qty
SWC-0	0.03 - 0.06	0.8 - 1.5	0.51 x 0.38	13.0 x 9.5	1000

MCC Series
Adhesive Mount Micro Cable Clamp

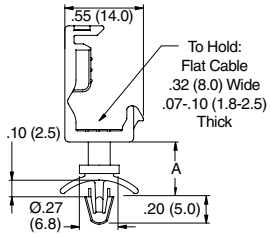


Specifications:
- Material: UL94 V-2 Nylon 6/6,
- Color: Black

Features:
- Low profile and small footprint take up little real estate
- Center rib gently grips cables
- Convenient latch is releasable for maintenance
- Easily mounted with adhesive base

Item No.	Max Cable Thickness in	Max Cable Thickness mm	Max Cable Width in	Max Cable Width mm	Bulk Pack Qty
MCC-1-01A-BK	0.040	1.0	0.23	5.8	1000

FCWSS Series
Flat Cable Wire Saddle

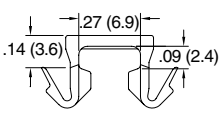


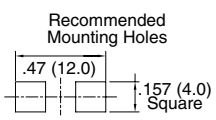
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Designed to hold down standard Serial ATA cable
- Flexible tension wing allows a range of cable thicknesses
- Grips cable firmly

Item No.	A in	A mm	Panel Hole Ø in	Panel Hole Ø mm	Panel Thickness in	Panel Thickness mm	Bulk Pack Qty
FCWSS-1-01BK	0.189	4.8	0.158	4.0	0.032 - 0.064	0.8 - 1.6	1000
FCWSS-2-01BK	0.394	10.0	0.158	4.0	0.032 - 0.064	0.8 - 1.6	1000

FCCE Series
Flat Cable Clamp





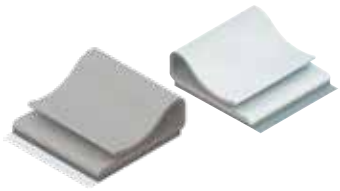
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

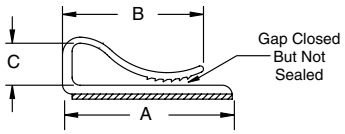
Features:
- Holds down ribbon cable
- Extremely low profile

Item No.	Max. Cable Width in	Max. Cable Width mm	Panel Thickness in	Panel Thickness mm	Depth in	Depth mm	Bulk Pack Qty
FCCE-9-01	0.250	6.4	0.039 - 0.047	1.0 - 1.2	0.28	7.0	1000

FLAT CABLE CLAMPS

CFCC Series
Side Load Flat Cable Clamp



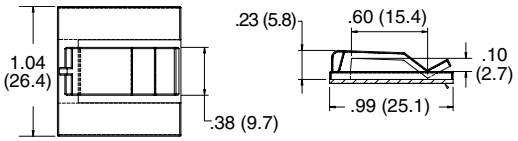


Specifications:
- Material: See Table
- Color: See Table

Features:
- Designed for routing flat ribbon cable
- Serrated grip prevents slippage
- Low profile

Item No.	A		B Ref.		C		Depth		Material	Color	Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm			
CFCC-3-05A-RT	0.563	14.3	0.49	12.5	0.18	4.6	1.00	25.4	UL94 V-1 PPE/PS	White	1000
CFCC-4-05A-RT	0.563	14.3	0.42	10.7	0.25	6.4	1.00	25.4	UL94 V-1 PPE/PS	White	1000
CFCC-8-05A-RT	1.062	27.0	0.88	22.4	0.25	6.4	1.00	25.4	UL94 V-1 PPE/PS	White	1000
CFCC-8-04A-RT	1.062	27.0	0.88	22.4	0.25	6.4	1.00	25.4	UL94 V-0 PVC	Grey	1000

CFCCS Series
Split Flat Cable Clamp On Adhesive Base



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Tension arm securely holds down flat ribbon cable

Item No.	Bulk Pack Qty
CFCCS-8-01A	1000

SFCC Series
Split Flat Cable Clamp

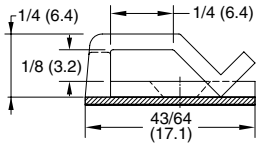


Figure 1

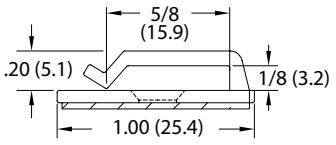


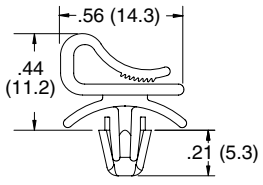
Figure 2

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Two tension arms hold flat ribbon cable firmly in place
- Easily installed with screw or adhesive

Item No.	Base		Mounting Method	Figure	Bulk Pack Qty
	in	mm			
SFCC-4-01	0.672 x 0.500	17.1 x 12.7	#4 or M2.5 Flat Head Screw	1	1000
SFCC-4-01A-RT	0.672 x 0.500	17.1 x 12.7	Adhesive	1	1000
SFCC-8-01	1.000 x 1.000	25.4 x 25.4	#6 or M3 Flat Head Screw	2	1000
SFCC-8-01A-RT	1.000 x 1.000	25.4 x 25.4	Adhesive	2	1000

CFCCA Series
Flat Cable Clamp

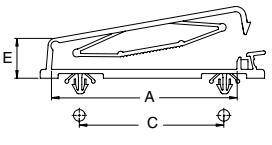


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Designed for routing flat ribbon cable
- Serrated grip prevents slippage
- Low profile

Item No.	Ø Mounting Hole		Panel Thickness		Base		Bulk Pack Qty
	in	mm	in	mm	in	mm	
CFCCA-1-01	0.187	4.8	0.310 - 0.078	0.8 - 2.0	0.56 x 0.63	14.3 x 15.9	1000

TFCCA Series
Flat Cable Clamp with Tension

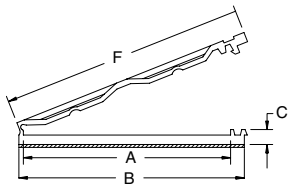


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Provides tension to flat ribbon cable to ensure stability
- Convenient releasable latch

Item No.	Max # of Conductors	A		C		E		Ø Mounting Hole		Panel Thickness		Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
TFCCA-15-01	10	0.57	14.5	0.591	15.0	0.56	14.1	0.156	4.0	0.040 - 0.079	1.0 - 2.0	0.36	9.1	100
TFCCA-25-01	20	0.97	24.7	0.787	20.0	0.50	12.7	0.156	4.0	0.040 - 0.079	1.0 - 2.0	0.52	13.2	100
TFCCA-40-01	40	2.13	54.1	1.575	40.0	0.64	16.3	0.156	4.0	0.040 - 0.079	1.0 - 2.0	0.39	10.0	100
TFCCA-50-01	50	2.51	63.8	1.957	49.7	0.54	13.7	0.156	4.0	0.040 - 0.079	1.0 - 2.0	0.40	10.2	100

TFCM Series
Flat Cable Clamp with Tension on Adhesive Base

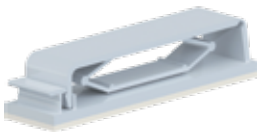


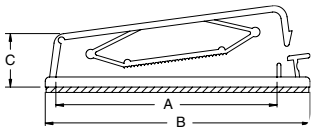
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Provides tension to flat ribbon cable to ensure stability
- Low profile where space is an issue
- Convenient releasable latch

Item No.	A Ref.		B Ref.		C Ref.		F Ref.		Depth		Suitable Cable	Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm		
TFCM-25S	0.87	22.0	1.06	27.0	0.12	3.0	1.26	32.0	0.39	10.0	15 Pln	200
TFCM-25	1.15	29.3	1.44	36.5	0.12	3.0	1.57	40.0	0.39	10.0	20 Pln	200
TFCM-25M	2.20	55.8	2.41	61.2	0.16	4.0	2.59	66.0	0.59	15.0	40 Pln	100

TFCC Series
Flat Cable Clamp with Tension on Adhesive Base



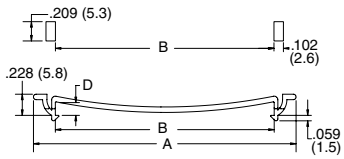


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

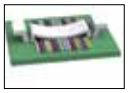
Features:
- Provides tension to flat ribbon cable to ensure stability
- Adhesive base for quick mounting

Item No.	Max # Of Conductors	A Ref.		B		C		Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
TFCC-30-01	30	1.26	32.0	1.77	45.0	0.62	15.8	0.73	18.6	100
TFCC-40-01	40	2.13	54.0	2.64	67.0	0.62	15.8	0.62	15.8	100
TFCC-50-01	50	2.57	65.2	3.09	78.4	0.62	15.8	0.74	18.8	100

FCCS Series
Flat Cable Clamp



Mounting Holes



Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:
- Very low profile
- Designed to firmly hold down flat ribbon cable
- Easily removable from the top of the panel

Item No.	A		B		D		Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
FCCS-1	1.06	27.0	0.59	15.0	0.13	3.4	0.28	7.0	500
FCCS-2	1.65	42.0	1.18	30.0	0.15	3.7	0.28	7.0	500
FCCS-3	1.85	47.0	1.38	35.0	0.15	3.7	0.28	7.0	500
FCCS-4	2.24	57.0	1.77	45.0	0.15	3.7	0.28	7.0	500
FCCS-5	2.83	72.0	2.36	60.0	0.15	3.7	0.28	7.0	500

RDAFCC Series
Flat Cable Clamp

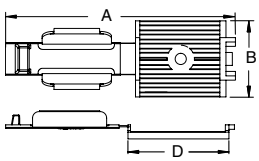


Figure 1

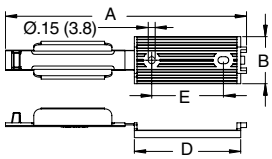


Figure 2

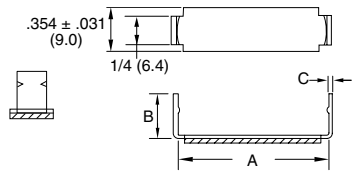
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Grey

Features:
- Low profile design
- Releasable latch for adding or removing flat ribbon cable
- Large mounting base for high bonding strength and stability

Item No.	Figure	Max Cable Width		Mounting Method	A Ref.		B Ref.		D Ref.		E		Bulk Pack Qty
		in	mm		in	mm	in	mm	in	mm	in	mm	
RDAFCC-25	1	1.000	25.4	#6 or M3.5 Screw	2.984	75.8	0.984	25.0	1.169	29.7	—	—	100
RDAFCC-25A	1	1.000	25.4	Adhesive	2.984	75.8	0.984	25.0	1.169	29.7	—	—	100
RDAFCC-50	2	2.000	50.8	#6 or M3.5 Screw	5.059	128.5	0.954	25.0	2.224	56.5	1.496	38.0	100
RDAFCC-50A	2	2.000	50.8	Adhesive	5.059	128.5	0.984	25.0	2.224	56.5	1.496	38.0	100
RDAFCC-82	2	3.000	76.2	#6 or M3.5 Screw	7.062	179.4	1.000	25.4	3.259	82.8	1.496	38.0	100
RDAFCC-82A	2	3.000	76.2	Adhesive	7.062	179.4	1.000	25.4	3.259	82.8	1.496	38.0	100

FLAT CABLE CLAMPS

AFCC Series
Aluminum Flat Cable Clamp on Adhesive Base

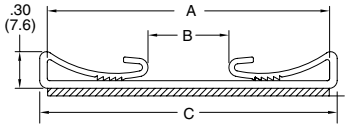


Specifications:
- Material: Aluminum
- Color: Bright Finish

Features:
- Aluminum arms secure flat ribbon cable
- Lightweight and durable
- Low profile for limited space applications

Item No.	Cable Width A		B Ref.		C		Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
AFCC-08	0.500	12.7	0.250	6.4	0.02	0.5	0.350	9.0	250
AFCC-12	0.750	19.1	0.250	6.4	0.02	0.5	0.350	9.0	250
AFCC-16	1.000	25.4	0.312	7.9	0.02	0.5	0.350	9.0	250
AFCC-20	1.250	31.8	0.375	9.5	0.02	0.5	0.350	9.0	250
AFCC-21	1.312	33.3	0.385	9.8	0.02	0.5	0.350	9.0	250
AFCC-24	1.500	38.1	0.437	11.1	0.02	0.5	0.350	9.0	250
AFCC-28	1.750	44.5	0.500	12.7	0.03	0.8	0.350	9.0	250
AFCC-32	2.000	50.8	0.562	14.3	0.03	0.8	0.350	9.0	250

DFCC Series
Dual Flat Cable Clamp on Adhesive Base

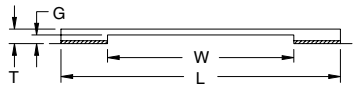


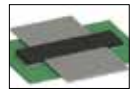
Specifications:
- Material: UL94 V-0 PVC
- Color: Black

Features:
- Flat ribbon cable is secured by serrated grips on both sides
- Low profile for limited space applications

Item No.	A		B Ref.		C		Depth		# of Conductors	Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm		
DFCC-2-RT	2.312	58.7	0.656	16.8	2.437	61.9	0.750	19.1	34-37-40	100
DFCC-3-RT	3.250	82.6	1.609	40.6	3.375	85.7	0.750	19.1	50-60-64	100

FCC Series
Flat Cable Clamp on Adhesive Base



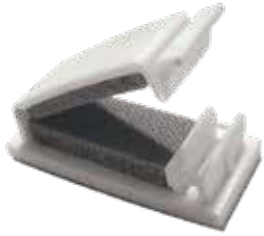


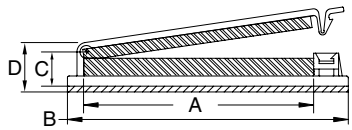
Specifications:
- Material: UL94 V-0 PVC
- Color: Black

Features:
- Clamp is secured with adhesive over flat ribbon cable
- Low profile for limited space applications

Item No.	L		W		T		G		Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
FCC-4-3-RT	1.50	38.1	0.50	12.7	0.156	4.0	0.093	2.4	0.500	12.7	100
FCC-8-3-RT	2.00	50.8	1.00	25.4	0.156	4.0	0.093	2.4	0.500	12.7	100
FCC-16-3-RT	3.00	76.2	2.00	50.6	0.156	4.0	0.093	2.4	0.500	12.7	100

FCWSF Series
Cable Clamp with Silicone Foam Center





Specifications:
- Material: UL94 V-0 Nylon 6/6 and Silicone Foam
- Color: Natural

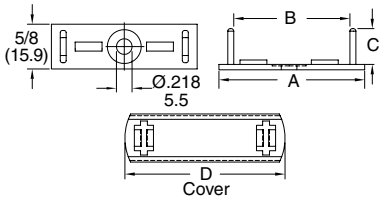
Features:
- UL94 V-0 silicone foam securely holds and protects fiber and cable
- Adhesive base for fast installation

Item No.	A		B		C Ref.		D Ref.		Depth		Cushion Thickness				Pack Qty	Bulk Pack Qty
											Latch Side		Base Side			
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
FCWSF-29-19	1.24	31.5	1.78	45.1	0.30	7.7	0.44	11.1	0.74	18.9	0.13	3.3	0.13	3.3	1	100
FCWSF-30-19	1.24	31.5	1.79	45.5	0.35	9.0	0.52	13.1	0.75	19.1	0.13	3.3	019	4.8	1	100
FCWSF-40-19	1.55	39.3	2.09	53.0	0.37	9.3	0.53	13.4	0.75	19.1	0.13	3.3	0.19	4.8	1	100
FCWSF-50-19	2.49	63.2	3.04	77.2	0.36	9.1	0.52	13.2	0.75	19.1	0.13	3.3	0.19	4.8	1	100

FCRC Series
Flat Cable Routing Clamp

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Two part design: Cable Clamp base and tension-locking cover (sold separately)
- More than one cover can be mounted on base for strain relief. Double back cable and secure with a second cover
- Base is secured either with a #10 or #12 screw or adhesive

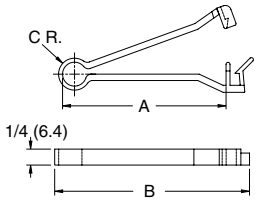


Base Item No.		A Ref.		B Ref.		C		Use Cover Item No.	D		Bulk Pack Qty
w/o Adhesive	w/ Adhesive	in	mm	in	mm	in	mm		in	mm	
FCRC-13B-4	FCRC-13B-4A-RT	2.04	51.7	1.62	41.2	0.500	12.7	FCRC-13C	2.24	56.8	100
FCRC-19B-4	FCRC-19B-4A-RT	2.72	69.1	2.31	58.7	0.500	12.7	FCRC-19C	2.92	74.2	100
FCRC-21B-4	FCRC-21B-4A-RT	2.98	75.7	2.55	64.8	0.500	12.7	FCRC-21C	3.17	80.5	100
FCRC-26B-4	FCRC-26B-4A-RT	3.66	93.0	3.24	82.3	0.500	12.7	FCRC-26C	3.86	98.0	100
FCRC-13B-6	FCRC-13B-6A-RT	2.04	51.7	1.62	41.2	0.750	19.1	FCRC-13C	2.24	56.8	100
FCRC-19B-6	FCRC-19B-6A-RT	2.72	69.1	2.31	58.7	0.750	19.1	FCRC-19C	2.92	74.2	100
FCRC-21B-6	FCRC-21B-6A-RT	2.98	75.7	2.55	64.8	0.750	19.1	FCRC-21C	3.17	80.5	100
FCRC-26B-6	FCRC-26B-6A-RT	3.66	93.0	3.24	82.3	0.750	19.1	FCRC-26C	3.86	98.0	100

FCLC/FCLCS Series
Flat Cable Loop Clip

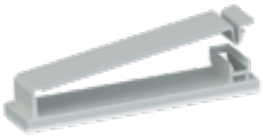
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

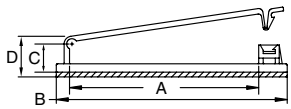
Features:
- Allows for quick positive clamping of flat cable without the need for securing the clip to a board



Item No.	A Max Cable Width		B Ref.		C Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	
FCLCS	1.50	38.1	2.00	50.8	0.23	5.8	500
FCLC	2.50	63.5	3.00	76.2	0.25	6.4	500

FCW Series
Cable Clamp On Adhesive Base





Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Allows for quick positive clamping of flat cable up to 50 conductors wide
- Adhesive base for quick installation
- Latch allows cables to be added and removed

Item No.		Max # of Conductors	Depth		A		B		C Ref.		D Ref.		Bulk Pack Qty
UL94 V-2	UL94 V-0		in	mm	in	mm	in	mm	in	mm	in	mm	
FCW-29-01	FCW-29-19	30	0.74	18.9	1.24	31.5	1.78	45.1	0.30	7.7	0.44	11.1	100
FCW-30-01	FCW-30-19	30	0.75	19.1	1.24	31.5	1.79	45.5	0.35	9.0	0.52	13.1	100
FCW-40-01	FCW-40-19	40	0.75	19.1	1.55	39.3	2.09	53.0	0.37	9.3	0.53	13.4	100
FCW-50-01	FCW-50-19	50	0.75	19.1	2.49	63.2	3.04	77.2	0.36	9.1	0.52	13.2	100
FCW-50H-01	FCW-50H-19	50	0.74	18.9	2.54	64.6	3.08	78.2	0.59	15.1	0.75	19.0	100

FCCA/FCCB Series
Arrowhead Mounted Cable Clamp

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Convenient releasable latch allows easy addition and removal of cables
- Easily mounted into pre-drilled holes

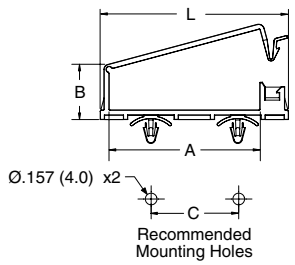


Figure 1

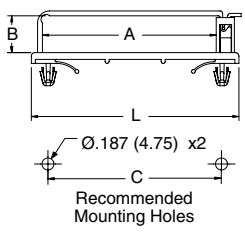
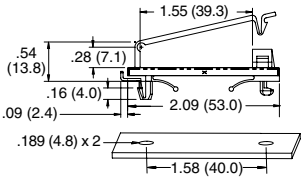


Figure 2

Item No.	Figure	L		A		B		C		Panel Thickness		Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
FCCA-30A-01	1	2.56	65.0	2.10	52.0	0.75	19.1	1.18	30.0	0.030 - 0.079	0.8 - 2.0	0.39	10.0	100
FCCA-40A-01	1	2.64	67.0	5.10	53.4	0.64	16.4	1.58	40.0	0.030 - 0.079	0.8 - 2.0	0.39	10.0	100
FCCB-1	2	3.03	77.0	2.54	64.5	0.28	7.2	2.54	64.5	0.031 - 0.078	0.8 - 2.0	0.79	20.0	100
FCCB-2	2	3.03	77.0	2.54	64.5	0.54	13.7	2.54	64.5	0.031 - 0.078	0.8 - 2.0	0.79	20.0	100

CABLE CLAMPS & CLIPS

FCSE Series
Slide Entry Cable Clamp



Mounting Holes

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Removable from the top side of the board

Item No.	Depth		Panel Thickness Max		Bulk Pack Qty
	in	mm	in	mm	
FCSE-1	**0.752**	**19.0**	**0.073**	**1.4**	100

HFCC Series
Hinged Cable Clamp

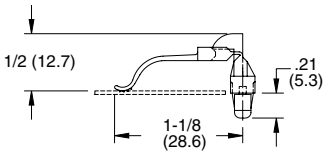


Figure 1

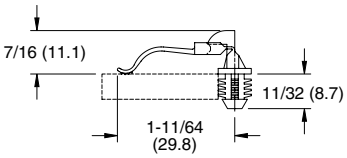


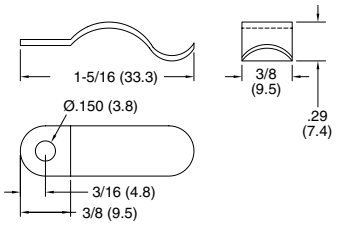
Figure 2

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Easy loading of flat cables
- Hinged design allows cables to be oriented prior to closure
- Once arm is hinged it locks in place
- Arrowhead design for thinner panels
- Fir-tree mount is primarily for particle board

Item No.	Mounting Holes		Panel Thickness		Figure	Bulk Pack Qty
	in	mm	in	mm		
HFCC-A-8-01	0.187	4.8	0.047 - 0.078	1.2 - 2.0	1	1000
HFCC-BH-8-01	0.312	7.9	0.250 min.	6.4 min.	2	1000

TC Series
Spring Clip

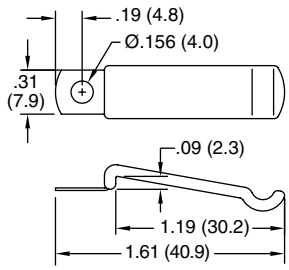


Specifications:
- Material: See Table
- Color: See Table

Features:
- Holds down round cable, ribbon cable, and tubing
- Mounts with a #6 screw or rivet
- Flexible enough that the cable can be removed without removing the clip
- All contact edges are rounded for product protection

Item No.	Holding Ø Max.		Mounting Screw	Material	Color	Bulk Pack Qty
	in	mm				
TC-30-1	0.37	9.4	#6 (M3/M3.5)	UL94 HB Acetal	Natural	1000
TC-30-1BK	0.37	9.4	#6 (M3/M3.5)	UL94 HB Acetal	Black	1000
TC-30-1-01	0.37	9.4	#6 (M3/M3.5)	UL94 V-2 Nylon 6/6	Natural	1000
TC-30-1-01BK	0.37	9.4	#6 (M3/M3.5)	UL94 V-2 Nylon 6/6	Black	1000

STCV Series
Vinyl Coated Steel Spring Clip

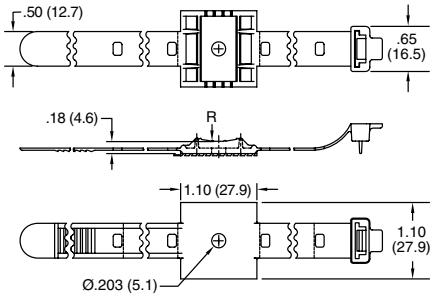


Specifications:
- Material: Stainless Steel SAE30301 Coating: Plastisol Vinyl
- Color: Black

Features:
- Vinyl coating protects and insulates product
- Holds down round cable, ribbon cable and tubing
- Mounts with a #6 (M3) screw or rivet
- Flexible enough that the cable can be removed without removing the clip

Item No.	Mounting Screw	Pack Qty	Bulk Pack Qty
STCV-1	#6 (M3)	1	1000

UMS Series
Universal Mounting Strap

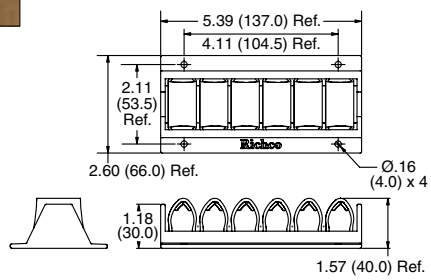


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Mounts with adhesive or a #6 or M4 screw
- Buckle design allows gripping down on cable bundles
- Adjustable to handle multiple bundle sizes

Item No.		Min Loop Tensile Strength		Ø Max Bundle		R Radius		Bulk Pack Qty
w/ Adhesive	w/o Adhesive	lbs	kg	in	mm	in	mm	
UMS-16-45A-RT	UMS-16-45	50	23	1.000	25.4	0.500	12.7	100
UMS-24-45A-RT	UMS-24-45	50	23	1.500	38.1	0.750	19.1	100
UMS-32-45A-RT	UMS-32-45	50	23	2.000	50.8	1.000	25.4	100

UCG Series
Universal Cable Grip



Specifications:
- Base Material: High-Density Polyethylene
  Insert Material: TPE
- Color: Black

Features:
- Pressure grips accommodate up to 7 cable bundles
- Cable grips are easily removed from the frame to accommodate larger cable bundles
- Cables are pushed into the product by hand and are easily removed
- Mount to panel using #6 or M3.5 screws

Item No.	Max Cable Ø Bundle Ref (7 Positions)		Max Cable Ø Bundle Ref (5 Center Positions Only)		Bulk Pack Qty
	in	mm	in	mm	
UCG-6BK	0.08	2.0	0.630	16.0	125

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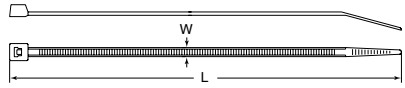
CABLE TIES

CT/WITA Series
Nylon Locking Cable Tie



Specifications:

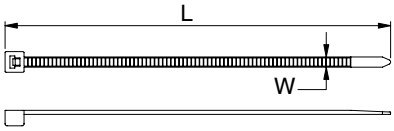
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Complies with MS-3367 & MIL-S-23190E
- Service Temperature: -40°F to 185°F (-40°C to 85°C)
- UL 181B-C for UI non-metallic air ducts and connectors on CT080A, CT080B, CT082A & CT082B: recommended for use with R-6 & R-8 flex ducts found on page 101

Item No.			L Ref.		W Ref.		Ø Max Bundle		Tensile Strength			
Natural	Black	Approval	in	mm	in	mm	in	mm	lbs	N	Classification	Bulk Pack Qty
CT001A	CT001B		3.000	75.0	0.095	2.4	0.710	18.0	18	80	Miniature	100
CT002A	CT002B		3.750	96.0	0.098	2.4	0.910	23.0	18	80	Miniature	100
WITA-18SF-M	—		3.850	97.8	0.100	2.5	0.870	22.0	18	80	Miniature	1000
CT003A	CT003E		4.000	100.0	0.098	2.4	0.980	25.0	18	80	Miniature	100
WITA-18R-M	—		4.720	120.0	0.100	2.5	1.060	26.9	18	80	Miniature	1000
CT004A	CT004B		4.750	120.0	0.098	2.5	1.180	30.0	18	80	Miniature	100
CT005A	CT005B		5.500	142.0	0.098	2.5	1.380	35.0	18	80	Miniature	100
WITA-18L-M	—		5.900	150.0	0.100	2.5	1.460	37.1	18	80	Miniature	1000
CT006A	CT006B		6.500	165.0	0.098	2.5	1.730	44.0	18	80	Miniature	100
WITA-18V-M	—		7.870	200.0	0.100	2.5	2.130	54.1	18	80	Miniature	1000
CT007A	CT007B		8.000	203.0	0.098	2.5	2.170	55.0	18	80	Miniature	100
WITA-18X-M	—		15.750	400.0	0.100	2.5	4.560	116.0	18	80	Miniature	1000
CT008A	CT008B		4.750	120.0	0.126	3.2	1.180	40.0	40	178	Intermediate	100
CT009A	CT009B		5.500	142.0	0.126	3.2	1.380	40.0	40	178	Intermediate	100
WITA-40R-C	—		5.910	150.0	0.140	3.6	1.480	37.6	40	178	Intermediate	100
WITA-40R-M	—		5.910	150.0	0.140	3.6	1.480	37.6	40	178	Intermediate	1000
CT010A	CT010B		6.000	150.0	0.142	3.6	1.540	39.0	40	178	Intermediate	100
CT020A	CT020B		7.000	180.0	0.141	3.6	1.930	49.0	40	178	Intermediate	100
WITA-40L-M	—		7.870	200.0	0.140	3.6	2.050	52.0	40	178	Intermediate	1000
CT011A	CT011B		8.000	203.0	0.126	3.2	2.170	40.0	40	178	Intermediate	100
CT012A	CT012C		8.000	203.0	0.142	3.6	2.170	55.0	40	178	Intermediate	100
WITA-40XL-M	—		8.070	205.0	0.140	3.6	2.100	53.3	40	178	Intermediate	1000
CT013A	CT013B		10.000	250.0	0.142	3.6	2.910	74.0	40	178	Intermediate	100
CT014A	CT014B		10.500	265.0	0.142	3.6	3.070	78.0	40	178	Intermediate	100
CT015A	CT015B		11.500	292.0	0.142	3.6	3.350	85.0	40	178	Intermediate	100
WITA-40VL-M	—		11.810	300.0	0.140	3.6	3.270	83.0	40	178	Intermediate	1000
CT016A	CT016B		13.000	330.0	0.142	3.6	3.780	96.0	40	178	Intermediate	100
CT017A	CT017B		14.500	368.0	0.142	3.6	4.020	102.0	40	178	Intermediate	100
CT018A	CT018B		4.750	120.0	0.189	4.8	1.180	30.0	50	222	Standard	100
WITA-50S-M	—		6.300	160.0	0.180	4.6	1.520	38.7	50	222	Standard	1000
CT019A	CT019B		6.500	160.0	0.189	4.8	1.650	42.0	50	222	Standard	100
CT021A	CT021B		7.500	190.0	0.189	4.8	2.050	52.0	50	222	Standard	100
WITA-50R-M	—		7.900	200.7	0.180	4.6	1.950	49.5	50	222	Standard	1000
CT022A	CT022B		8.000	203.0	0.181	4.6	2.170	55.0	50	222	Standard	100
CT023A	CT023B		10.000	250.0	0.189	4.8	2.910	74.0	50	222	Standard	100
CT024A	CT024B		11.000	280.0	0.189	4.8	3.190	81.0	50	222	Standard	100
WITA-50RL-M	—		11.020	280.0	0.190	4.8	3.030	77.0	50	222	Standard	1000
CT025A	CT025B		11.875	300.0	0.189	4.8	3.350	85.0	50	222	Standard	100
CT026A	CT026B		12.250	310.0	0.189	4.8	3.500	89.0	50	222	Standard	100
CT027A	CT027B		14.500	368.0	0.189	4.8	4.020	102.0	50	222	Standard	100
CT028A	CT028B		15.250	385.0	0.189	4.8	4.570	116.0	50	222	Standard	100
WITA-50L-M	—		15.750	400.0	0.180	4.6	4.450	113.0	50	222	Standard	1000
CT029A	CT029B		17.000	432.0	0.189	4.8	4.920	125.0	50	222	Standard	100
CT030A	CT030B		17.750	450.0	0.189	4.8	5.120	130.0	50	222	Standard	100
CT031A	CT031B		19.687	500.0	0.189	4.8	5.910	150.0	50	222	Standard	100
CT033A	CT033B	—	21.687	550.0	0.189	4.8	6.540	166.0	50	222	Standard	100
WITA-50XL-C	—		25.000	635.0	.0.190	4.8	7.480	190.0	50	222	Standard	100
CT063A	CT063B	—	36.000	914.0	0.189	4.8	10.630	270.0	50	222	Standard	100
CT064A	CT064B	—	4.750	120.0	0.299	7.6	1.180	30.0	120	534	Heavy Duty	100
CT065A	CT065B	—	6.000	150.0	0.299	7.6	1.540	39.0	120	534	Heavy Duty	100
CT066A	CT066B		8.000	203.0	0.299	7.6	2.170	55.0	120	534	Heavy Duty	100
WITA-120S-D	—		8.600	218.0	0.300	7.6	2.010	51.0	120	534	Heavy Duty	500
CT067A	CT067B		9.437	240.0	0.299	7.6	2.600	66.0	120	534	Heavy Duty	100
CT068A	CT068B		11.000	280.0	0.299	7.6	3.070	78.0	120	534	Heavy Duty	100
CT069A	CT069B		11.750	300.0	0.299	7.6	3.460	88.0	120	534	Heavy Duty	100
CT070A	CT070B		13.500	340.0	0.299	7.6	3.900	99.0	120	534	Heavy Duty	100
CT071A	CT071B	—	15.000	380.0	0.252	6.4	4.330	110.0	100	445	Heavy Duty	100
CT072A	CT072B		15.000	380.0	0.299	7.6	4.330	110.0	120	534	Heavy Duty	100
WITA-120R-D	—		15.750	400.0	0.310	7.8	4.450	113.0	120	534	Heavy Duty	500
CT073A	CT073B		17.750	450.0	0.315	8.0	5.240	133.0	120	534	Heavy Duty	100
WITA-120L-D	—		21.650	550.0	0.310	7.8	6.380	162.0	120	534	Heavy Duty	500
CT074A	CT074B		21.687	550.0	0.315	8.0	6.540	166.0	175	778	Heavy Duty	100
WITA-175R-L	—		24.000	610.0	0.350	9.0	7.020	178.0	175	778	Heavy Duty	50
CT075A	CT075B		24.000	610.0	0.354	9.0	7.280	185.0	175	778	Heavy Duty	100
CT076A	CT076B		27.000	685.0	0.354	9.0	8.270	210.0	175	778	Heavy Duty	100
CT077A	CT077B		28.000	710.0	0.354	9.0	8.660	220.0	175	778	Heavy Duty	100
CT078A	CT078B		30.000	762.0	0.354	9.0	9.290	236.0	175	778	Heavy Duty	100
CT079A	CT079B		32.000	812.0	0.354	9.0	9.690	246.0	175	778	Heavy Duty	100
CT080A	CT080B		36.000	914.0	0.354	9.0	10.630	270.0	175	778	Heavy Duty	100
WITA-175L-Q	—		36.000	914.0	0.350	9.0	10.910	277.0	175	778	Heavy Duty	25
CT081A	CT081B		46.000	1168.0	0.354	9.0	14.170	360.0	175	778	Heavy Duty	100
CT082A	CT082B		48.000	1219.0	0.354	9.0	15.000	380.0	175	778	Heavy Duty	100
CT084A	CT084B		59.000	1500.0	0.354	9.0	18.270	464.0	175	778	Heavy Duty	100

CTWR/WITA Series
Weather Resistant Locking Cable Tie



Specifications:

- Material: UL94 V-2 UV Stabilized Nylon 6/6
- Color: Black

Features:

- Service Temperature: –40°F to 185°F (–40°C to 85°C)
- Designed for outdoor applications

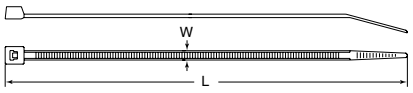
Item No.	Approval	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Classification	Bulk Pack Qty
		in	mm	in	mm	in	mm	lbs	N		
CTWR002A		3.750	96.0	0.098	2.4	0.910	23.0	18	80	Miniature	100
WITA-18SF-UVB-M		3.850	97.8	0.100	2.5	0.870	22.0	18	80	Miniature	1000
CTWR003A		4.000	100.0	0.098	2.4	0.980	25.0	18	80	Miniature	100
WITA-18R-UVB-M		4.720	120.0	0.100	2.5	1.060	26.9	18	80	Miniature	1000
CTWR004A		4.750	120.0	0.098	2.5	1.180	30.0	18	80	Miniature	100
WITA-18L-UVB-M		5.900	150.0	0.100	2.5	1.460	37.1	18	80	Miniature	1000
CTWR006A		6.500	165.0	0.098	2.5	1.730	44.0	18	80	Miniature	100
WITA-18V-UVB-M		7.870	200.0	0.100	2.5	2.130	54.1	18	80	Miniature	1000
CTWR007A		8.000	203.0	0.098	2.5	2.170	55.0	18	80	Miniature	100
WITA-18X-UVB-M		15.750	400.0	0.100	2.5	4.560	116.0	18	80	Miniature	1000
CTWR008A		4.750	120.0	0.126	3.2	1.180	30.0	40	178	Intermediate	100
CTWR009A		5.500	142.0	0.126	3.2	1.380	35.0	40	178	Intermediate	100
WITA-40R-UVB-C		5.910	150.0	0.140	3.6	1.480	37.6	40	178	Intermediate	100
WITA-40L-UVB-M		7.870	200.0	0.140	3.6	2.050	52.0	40	178	Intermediate	1000
CTWR010A		8.000	203.0	0.126	3.2	2.170	55.0	40	178	Intermediate	100
WITA-40XL-UVB-M		8.070	205.0	0.140	3.6	2.100	53.3	40	178	Intermediate	1000
CTWR011A		6.000	150.0	0.142	3.6	1.540	39.0	40	178	Intermediate	100
CTWR012A		8.000	203.0	0.142	3.6	2.170	55.0	40	178	Intermediate	100
CTWR013A		10.000	250.0	0.142	3.6	2.910	74.0	40	178	Intermediate	100
CTWR014A		10.500	265.0	0.142	3.6	3.070	78.0	40	178	Intermediate	100
CTWR015A		11.500	292.0	0.142	3.6	3.350	85.0	40	178	Intermediate	100
WITA-40VL-UVB-M		11.810	300.0	0.140	3.6	3.270	83.0	40	178	Intermediate	1000
CTWR016A		13.000	330.0	0.142	3.6	3.780	96.0	40	178	Intermediate	100
CTWR017A		14.500	368.0	0.142	3.6	4.020	102.0	40	178	Intermediate	100
CTWR018A		7.000	180.0	0.142	3.6	1.930	49.0	40	178	Intermediate	100
WITA-50S-UVB-M		6.300	160.0	0.180	4.6	1.520	38.7	50	222	Standard	1000
WITA-50R-UVB-M		7.900	200.7	0.180	4.6	1.950	49.5	50	222	Standard	1000
CTWR019A		8.000	203.0	0.181	4.6	2.170	55.0	50	222	Standard	100
CTWR020A		4.750	120.0	0.189	4.8	1.180	30.0	50	222	Standard	100
CTWR021A		6.500	160.0	0.189	4.8	1.650	42.0	50	222	Standard	100
CTWR022A		7.500	190.0	0.189	4.8	2.050	52.0	50	222	Standard	100
CTWR023A		10.000	250.0	0.189	4.8	2.910	74.0	50	222	Standard	100
CTWR024A		11.000	280.0	0.189	4.8	3.190	81.0	50	222	Standard	100
WITA-50RL-UVB-M		11.020	280.0	0.190	4.8	3.030	77.0	50	222	Standard	1000
CTWR025A	—	11.875	300.0	0.189	4.8	3.350	85.0	50	222	Standard	100
CTWR026A		12.250	310.0	0.189	4.8	3.500	89.0	50	222	Standard	100
CTWR027A		14.500	368.0	0.189	4.8	4.020	102.0	50	222	Standard	100
CTWR028A		15.187	385.0	0.189	4.8	4.570	116.0	50	222	Standard	100
WITA-50L-UVB-M		15.750	391.2	0.180	4.6	4.520	114.8	50	222	Standard	1000
CTWR029A		17.000	432.0	0.189	4.8	4.920	125.0	50	222	Standard	100
CTWR030A		17.750	450.0	0.189	4.8	5.120	130.0	50	222	Standard	100
CTWR031A		19.687	500.0	0.189	4.8	5.910	150.0	50	222	Standard	100
CTWR033A	—	21.687	550.0	0.189	4.8	6.540	166.0	50	222	Standard	100
WITA-50XL-UVB-C		25.000	635.0	0.190	4.8	7.480	190.0	50	222	Standard	100
CTWR063A	—	36.000	914.0	0.189	4.8	10.630	270.0	50	222	Standard	100
CTWR064A	—	4.750	120.0	0.299	7.6	1.180	30.0	120	534	Heavy Duty	100
CTWR065A	—	6.000	150.0	0.299	7.6	1.540	39.0	120	534	Heavy Duty	100
CTWR066A		8.000	203.0	0.299	7.6	2.170	55.0	120	534	Heavy Duty	100
WITA-120S-UVB-D		8.600	218.0	0.300	7.6	2.010	51.0	120	534	Heavy Duty	500
CTWR067A		9.437	240.0	0.299	7.6	2.600	66.0	120	534	Heavy Duty	100
CTWR068A		11.000	280.0	0.299	7.6	3.070	78.0	120	534	Heavy Duty	100
CTWR069A		11.875	300.0	0.299	7.6	3.500	88.0	120	534	Heavy Duty	100
CTWR070A		13.500	340.0	0.299	7.6	3.900	99.0	120	534	Heavy Duty	100
CTWR071A	—	15.000	380.0	0.252	6.4	4.330	110.0	100	445	Heavy Duty	100
CTWR072A		15.000	380.0	0.299	7.6	4.330	110.0	120	534	Heavy Duty	100
WITA-120R-UVB-D		15.750	400.0	0.310	7.8	4.450	113.0	120	534	Heavy Duty	500
WITA-120L-UVB-D		21.650	550.0	0.310	7.8	6.380	162.0	120	534	Heavy Duty	500
CTWR073A		17.750	450.0	0.315	8.0	5.250	133.0	175	778	Heavy Duty	100
CTWR074A		21.875	550.0	0.315	8.0	6.500	166.0	175	778	Heavy Duty	100
WITA-175R-UVB-L		24.000	610.0	0.350	9.0	7.020	178.0	175	778	Heavy Duty	50
CTWR075A		24.000	610.0	0.354	9.0	7.280	185.0	175	778	Heavy Duty	100
CTWR076A		27.000	680.0	0.354	9.0	8.270	210.0	175	778	Heavy Duty	100
CTWR077A		28.000	705.0	0.354	9.0	8.660	220.0	175	778	Heavy Duty	100
CTWR079A		32.000	812.0	0.354	9.0	9.690	246.0	175	778	Heavy Duty	100
CTWR080A		36.000	914.0	0.354	9.0	10.630	270.0	175	778	Heavy Duty	100
WITA-175L-UVB-Q		36.000	914.0	0.350	9.0	10.910	277.0	175	778	Heavy Duty	25
CTWR081A		46.000	1168	0.354	9.0	14.170	360.0	175	778	Heavy Duty	100
CTWR082A		48.000	1219	0.354	9.0	15.000	380.0	175	778	Heavy Duty	100
CTWR084A	—	59.000	1500	0.354	9.0	18.270	464.0	175	778	Heavy Duty	100

CABLE TIES

CTHD Series
Extra Heavy Duty Cable Tie

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

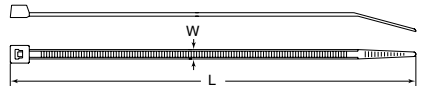
Features:
- Service Temperature: –40°F to 185°F (–40°C to 85°C)
- High tensile strength for demanding applications



Item No.				L		W		Ø Max Bundle		Tensile Strength			Bulk Pack Qty
Natural	Approval	Black	Approval	in	mm	in	mm	in	mm	lbs	N	Classification	
CTHD001A	UL	CTHD001B	—	9.06	230.0	0.500	12.7	2.480	63.0	250	1113	Extra Heavy Duty	100
CTHD002A	UL	CTHD002B	—	11.02	280.0	0.500	12.7	3.150	80.0	250	1113	Extra Heavy Duty	100
CTHD003A	UL	CTHD003B	—	14.96	380.0	0.500	12.7	4.330	110.0	250	1113	Extra Heavy Duty	100
CTHD004A	—	CTHD004B	—	18.90	480.0	0.500	12.7	5.510	140.0	250	1113	Extra Heavy Duty	100
CTHD005A	UL	CTHD005B	UL	21.65	550.0	0.500	12.7	6.540	166.0	250	1113	Extra Heavy Duty	100
CTHD006A	—	CTHD006B	—	22.83	580.0	0.500	12.7	6.890	175.0	250	1113	Extra Heavy Duty	100
CTHD007A	—	CTHD007B	—	28.74	730.0	0.500	12.7	8.860	225.0	250	1113	Extra Heavy Duty	100
CTHD008A	—	CTHD008B	—	34.65	880.0	0.500	12.7	10.510	267.0	250	1113	Extra Heavy Duty	100
CTHD009A	—	CTHD009B	—	40.55	1030.0	0.500	12.7	12.480	317.0	250	1113	Extra Heavy Duty	100

CT Series
Colored Locking Cable Tie

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table



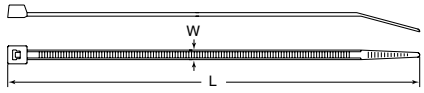
Item No.						L Ref.		W Ref.		Ø Max Bundle		Tensile Strength			Bulk Pack Qty
Green	Red	Yellow	Blue	Silver	Approval	in	mm	in	mm	in	mm	lbs	N	Classification	
CT003G	CT003K	CT003Y	CT003L	CT003S	UL	3.94	100.0	0.098	2.5	0.980	25.0	18	80	Miniature	100
CT007G	CT007K	CT007Y	CT007L	CT007S	UL	8.00	203.0	0.098	2.5	2.170	55.0	18	80	Miniature	100
CT010G	CT010K	CT010Y	CT010L	CT010S	UL	5.91	150.0	0.142	3.6	1.540	39.0	40	178	Intermediate	100
CT013G	CT013K	CT013Y	CT013L	CT013S	UL	9.84	250.0	0.142	3.6	2.910	74.0	40	178	Intermediate	100
CT022G	CT022K	CT022Y	CT022L	CT022S	UL	8.00	203.0	0.181	4.6	2.170	55.0	50	222	Standard	100
CT025G	CT025K	CT025Y	CT025L	CT025S	UL	11.81	300.0	0.189	4.8	3.350	85.0	50	222	Standard	100
CT027G	CT027K	CT027Y	CT027L	CT027S	UL	14.49	368.0	0.189	4.8	4.020	102.0	50	222	Standard	100
CT072G	CT072K	CT072Y	CT072L	CT072S	UL	14.96	380.0	0.299	7.6	4.330	110.0	120	534	Heavy Duty	100

Polypropylene Locking Cable Tie

NEW

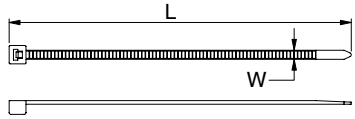
Specifications:
- Material: Polypropylene
- Color: Black

Features:
- Excellent chemical resistance
- Moisture levels are relatively unaffected by variations in moisture levels
- Buoyant



Item No.	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Bulk Pack Qty
	in	mm	in	mm	in	mm	lbs	N	
1293369	5.90	150.0	0.14	3.6	1.42	36.1	18	80	100
1293370	8.00	203.0	0.18	4.6	2.05	52.1	22	98	100
1293371	9.84	250.0	0.19	4.8	2.68	68.1	22	98	100
1293372	9.49	240.0	0.29	7.4	2.40	61.0	50	222	100
1293373	11.81	300.0	0.30	7.6	3.15	80.0	50	222	100
1293374	14.96	380.0	0.30	7.6	4.13	104.9	50	222	100
1293375	21.65	550.0	0.31	7.9	6.30	160	50	222	100

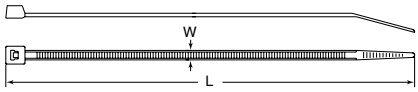
WITA-V0 Series
UL94 V-0 Locking Cable Tie



Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Item No.	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Bulk Pack Qty
	in	mm	in	mm	in	mm	lbs	N	
WITA-18R-V0-M	4.72	120.0	0.100	2.5	1.060	26.9	18	80	1000
WITA-50R-V0-M	7.90	200.7	0.180	4.6	1.950	49.5	50	222	1000

CTHS/WITA-HS Series
Heat Stabilized Cable Tie



Specifications:
- Material: UL94 V-2 Heat Stabilized Nylon 6/6
- Color: Black

Features:
- Service Temperature: –40°F to 221°F (–40°C to 105°C)
- Suitable for higher temperature applications

Item No.	Approval	L Ref. in	L Ref. mm	W Ref. in	W Ref. mm	Ø Max Bundle in	Ø Max Bundle mm	Tensile Strength lbs	Tensile Strength N	Classification	Bulk Pack Qty
CT003F		3.94	100.0	0.098	2.5	0.980	25.0	18	80	Miniature	100
WITA-18R-HS-M	—	4.72	120.0	0.100	2.5	1.060	26.9	18	80	Miniature	1000
CT005C		5.59	142.0	0.098	2.5	1.380	35.0	18	80	Miniature	100
CT007C		8.00	203.0	0.098	2.5	2.170	55.0	18	80	Miniature	100
WITA-40R-HS-M	—	5.91	150.0	0.140	3.6	1.480	37.6	40	178	Intermediate	1000
CT012D		8.00	203.0	0.142	3.6	2.170	55.0	40	178	Intermediate	100
CT015C		11.50	292.0	0.142	3.6	3.350	85.0	40	178	Intermediate	100
CT018C		4.72	120.0	0.189	4.8	1.180	30.0	50	222	Standard	100
CT019C		6.30	160.0	0.189	4.8	1.650	42.0	50	222	Standard	100
CT021C		7.48	190.0	0.189	4.8	2.050	52.0	50	222	Standard	100
WITA-50R-HS-M	—	7.90	200.7	0.180	4.6	1.950	49.5	50	222	Standard	1000
CT022C		8.00	203.0	0.181	4.6	2.170	55.0	50	222	Standard	100
CT024C		11.02	280.0	0.189	4.8	3.190	81.0	50	222	Standard	100
WITA-50RL-HS-M	—	11.02	280.0	0.190	4.8	3.030	77.0	50	222	Standard	1000
CT025C		11.81	300.0	0.189	4.8	3.350	85.0	50	222	Standard	100
CT027F		14.49	368.0	0.189	4.8	4.020	102.0	50	222	Standard	100
CT029F		17.00	432.0	0.189	4.8	4.920	125.0	50	222	Standard	100
CT033C	—	21.65	550.0	0.189	4.8	6.540	166.0	50	222	Standard	100
CT067C		9.45	240.0	0.299	7.6	2.600	66.0	120	534	Heavy Duty	100
CT072C		14.96	380.0	0.299	7.6	4.330	110.0	120	534	Heavy Duty	100
CT075C		24.02	610.0	0.354	9.0	7.280	185.0	175	778	Heavy Duty	100

CTG Series
Cable Tie Installation Tools

Figure 1

Figure 2

Figure 3

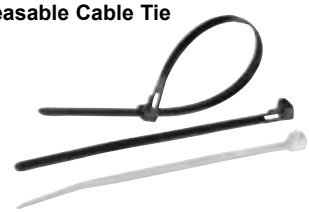
Figure 4

Figure 5

Figure 6

Item No.	Figure	Used with Cable Ties	Features:	Pack Qty
WIT-1	1	18 - 50 lbs	Lightweight for job site installations and repairs	1
WIT-2A	2	18 - 50 lbs	Heavy duty construction - cuts tie flush when adjustable preset bundling tension is reached	1
CTG004A	3	50 - 175 lbs	Heavy duty construction	1
WIT-3A	4	18 - 50 lbs	Economy model - glass reinforced Nylon for lightweight durability	1
CTG010A	5	Stainless Steel	Tightens and cuts locking Stainless Steel ties	1
MTG-1	6	Stainless Steel	Tightens and cuts locking Stainless Steel ties	1

CTR/WIT-RT Series
Standard Releasable Cable Tie



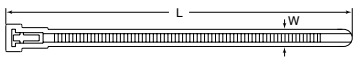


Figure 1

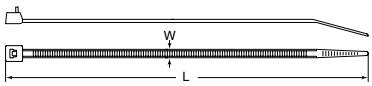


Figure 2

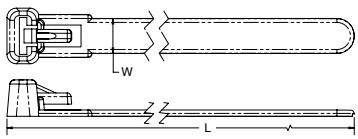


Figure 3

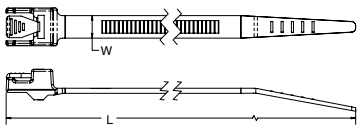


Figure 4

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:
- Ties remain locked until intentionally released using release tab
- Great for temporary bundling purposes or future changes

Item No. Natural	Item No. Black	Item No. Black UV Stabilized Nylon 6/6	Approval	Figure	L Ref. in	L Ref. mm	W Ref. in	W Ref. mm	Ø Max Bundle in	Ø Max Bundle mm	Tensile Strength lbs	Tensile Strength N	Bulk Pack Qty
WIT-RT-1-M	—	WIT-RT-1-UVB-M	—	3	8.093	206.0	0.300	7.6	1.875	48.0	30	133	1000
WIT-RT-0550-M	—	WITRT-0550-UV-M		4	5.500	139.7	0.210	5.3	1.250	31.8	40	178	1000
WIT-RT-0800-M	—	WITRT-0800-UV-M		4	8.000	203.2	0.210	5.3	2.000	50.8	40	178	1000
WIT-RT-1050-M	—	—	—	4	10.500	266.7	0.210	5.3	2.500	63.5	40	178	1000
WIT-50SR-M	—	WIT-50SR-UVB-M		2	6.000	152.4	0.190	4.8	1.500	38.1	50	222	1000
WIT-50RR-M	—	WIT-50RR-UVB-M		2	8.000	203.2	0.190	4.8	2.000	50.8	50	222	1000
—	CTR003A	—		1	8.000	200.0	0.299	7.6	2.000	50.0	50	222	100
WIT-50LR-M	—	WIT-50LR-UVB-M	—	2	11.656	295.9	0.190	4.8	3.000	76.2	50	222	1000
—	CTR005A	—		1	11.875	300.0	0.299	7.6	3.150	80.0	50	222	100
CTR011A	—	—	—	2	14.562	370.0	0.189	4.8	4.020	102.0	50	222	100
WIT-RT-1525-Q	—	—		4	15.250	387.4	0.520	13.2	4.000	101.6	250	1113	25
WIT-RT-2150-Q	—	—		4	21.500	546.1	0.520	13.2	6.000	152.4	250	1113	25
WIT-RT-2775-Q	—	—		4	27.750	704.9	0.520	13.2	8.000	203.2	250	1113	25

STAINLESS STEEL CABLE TIES/SPECIALTY CABLE TIES

MT Series
Stainless Steel Cable Tie

Use with Installation Tools CTG010A or MTG-1 on page 217.

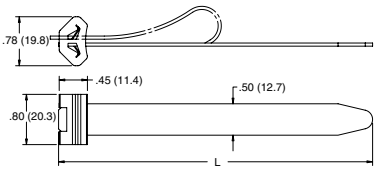
See page 232 for Stainless Steel Cable Tie Holders.

Specifications:
- Material: See Table

Features:
- Temperature Range: –328°F to 1000°F (–200°C to 538°C)
- Use 316 Stainless Steel for corrosive environments
- Use Type 304 Stainless Steel for general purpose indoor/outdoor applications
- Radiation, vibration and flame resistant

Item No.			Length		Width		Ø Max Bundle		Tensile Strength		Bulk Pack
304 Stainless Steel	316 Stainless Steel	Approval	in	mm	in	mm	in	mm	lbs	N	Qty
MT-1	MT-16		5.00	127.0	0.18	4.6	1.00	25.4	100	445	100
MT-2	MT-17		7.91	201.0	0.18	4.6	2.00	51.0	100	445	100
MT-3	MT-18		10.20	259.0	0.18	4.6	2.75	70.0	100	445	100
MT-4	MT-19		14.25	362.0	0.18	4.6	4.00	102.0	100	445	100
MT-5	MT-20		20.51	521.0	0.18	4.6	6.00	152.0	100	445	100
MT-6	MT-21		26.73	679.0	0.18	4.6	8.00	203.0	100	445	100
MT-7	MT-22		32.99	838.0	0.18	4.6	10.00	254.0	100	445	100
MT-8	MT-23		39.29	998.0	0.18	4.6	12.00	304.0	100	445	50
MT-9	MT-24		49.21	1250.0	0.18	4.6	15.00	380.0	100	445	50
MT-10	MT-25		7.91	201.0	0.31	7.9	2.00	51.0	250	1113	100
MT-11	MT-26		14.25	362.0	0.31	7.9	4.00	102.0	250	1113	100
MT-12	MT-27		20.51	521.0	0.31	7.9	6.00	152.0	250	1113	100
MT-13	MT-28		26.73	679.0	0.31	7.9	8.00	203.0	250	1113	100
MT-14	MT-29		32.99	838.0	0.31	7.9	10.00	254.0	250	1113	50
MT-15	MT-30		39.29	998.0	0.31	7.9	12.00	304.0	250	1113	50

HDSB Series
Heavy Duty Strap and Buckle



Specifications:
- Head Material: High Impact UV Stabilized Acetal
- Strap Material: See Table
- Color: Black

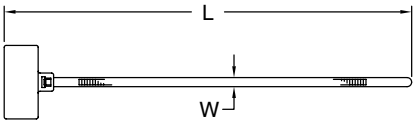
Features:
- For heavy duty applications; max tensile strength of 350 lbs.
- Steel teeth on buckle grip the strap permanently
- Buckle is preassembled on one end of the strap
- Nylon strap material is high strength, lightweight, and relatively inexpensive
- Acetal strap material has excellent weatherability, superior dimension stability, and low-temperature toughness
- Installation tool available, use Item No. WIT-HD-6

Item No.		Min Loop Tensile Strength	L		Ø Max Bundle		Bulk Pack
Strap: UL94 V-2 Nylon 6/6	Strap: High Impact UV Stabilized Acetal	lbs	in	mm	in	mm	Qty
HDSB1-350-R	HDSB2-350-R	350	15.00	381.0	4.00	101.6	50
HDSB1-350-L	HDSB2-350-L	350	33.00	838.2	9.70	246.4	25
HDSB1-350-XL	HDSB2-350-XL	350	50.00	1270.0	15.10	383.5	25

WITA-F Series
Identification Marker Tie

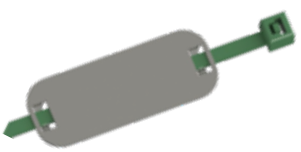
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

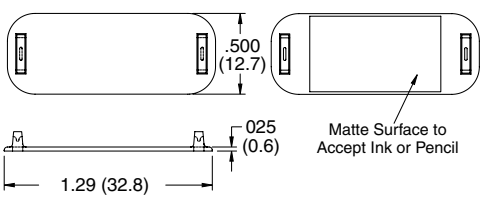
Features:
- Identification label on tie that can be imprinted or written on with markers



Item No.	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Marker Pad		Bulk Pack Qty
	in	mm	in	mm	in	mm	lbs	N	in	mm	
WITA-F2-18R-M	4.330	110.0	0.100	2.5	0.980	25.0	18	80	1.00 x 0.31	25.0 x 7.9	1000

WIT-MK-1
Marker Tag for Cable Ties





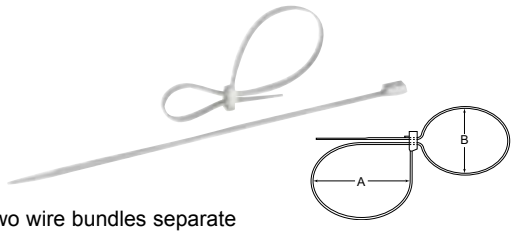
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Slide any standard cable tie up to 50 lbs. through mounting slots (ties sold separately)
- Matte surface to accept ink, pencil or marker

Item No.	Cable Ties Accepted	Bulk Pack Qty
WIT-MK-1	18 lbs. - 50 lbs.	1000

DOUBLE HEADED & BEADED CABLE TIES

CTDH/WITA-DH Series
Double Headed Cable Tie

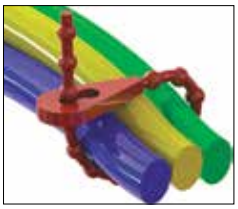


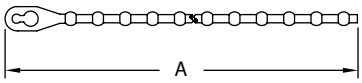
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:
- Double head design keeps two wire bundles separate

Item No.		L		W		A Max		A Min		B Max		B Min		Tensile Strength		Bulk Pack Qty
Natural	Black UV Stabilized	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	Lbs	N	
WITA-50RLDH-M	WITA50RLDH-UV-M	8.875	225.0	0.189	4.8	2.300	59.0	0.098	2.5	2.000	52.0	0.079	2.0	50	222	1000
CTDH002A	—	11.875	300.0	0.189	4.8	3.300	83.0	0.098	2.5	3.000	76.0	0.079	2.0	50	222	1000
WITA-50LDH-M	WITA-50LDH-UV-M	14.560	370.0	0.189	4.8	4.100	105.0	0.098	2.5	3.900	98.0	0.079	2.0	50	222	1000

BT Series
Beaded Cable Tie



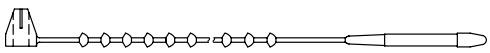


Specifications:
- Material: See Table
- Color: See Table

Features:
- Easy to install and release
- Beaded design keeps wires from shifting or slipping
- Polypropylene material is very flexible

Item No.					A Ref. Length		Ø Max Bundle Requires 3 Bead Engagement		Bulk Pack Qty
Red UL94 HB Polypropylene	Yellow UL94 HB Polypropylene	Blue UL94 HB Polypropylene	Black UL94 HB Polypropylene	Natural UL94 V-2 Nylon 6/6	in	mm	in	mm	
BT-2-10-RD	BT-2-10-YL	BT-2-10-BL	BT-2-10-BK	BT-2-01-NT	2.50	63.5	0.563	14.3	1000
BT-4-10-RD	BT-4-10-YL	BT-4-10-BL	BT-4-10-BK	BT-4-01-NT	4.00	101.6	1.000	25.4	1000
BT-5-10-RD	BT-5-10-YL	BT-5-10-BL	BT-5-10-BK	BT-5-01-NT	5.00	127.0	1.250	31.8	1000
BT-6-10-RD	BT-6-10-YL	BT-6-10-BL	BT-6-10-BK	BT-6-01-NT	6.00	152.4	1.750	44.5	1000
BT-8-10-RD	BT-8-10-YL	BT-8-10-BL	BT-8-10-BK	BT-8-01-NT	8.75	222.3	2.375	60.3	1000
BT-10-10-RD	BT-10-10-YL	BT-10-10-BL	BT-10-10-BK	BT-10-01-NT	10.75	273.1	3.125	85.7	1000
BT-12-10-RD	BT-12-10-YL	BT-12-10-BL	BT-12-10-BK	BT-12-01-NT	12.75	323.9	3.625	92.1	1000

LBT Series
Locking Beaded Cable Tie

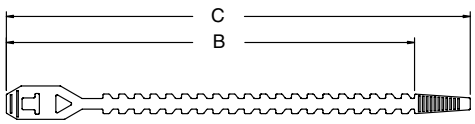


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Has a permanent locking feature

Item No.	Approval	Length		Width Max		Ø Max Bundle		Tensile Strength		Bulk Pack Qty
		in	mm	in	mm	in	mm	lbs	N	
LBT-18-01		5.90	150.0	0.080	2.0	1.4	35.6	18	80	1000

HT Series
Hanking Cable Tie



Specifications:
- Material: Polyethylene
- Color: Natural

Features:
- Good for wrapping electrical cords for shipping and packaging
- Extremely flexible

Item No.	B Ref.		C Ref.		Ø Max Bundle		Width of Strap		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
HT-3.9	3.19	81.0	3.90	99.0	0.91	23.0	0.250	6.4	1000
HT-4.9	4.21	107.0	4.92	125.0	1.10	28.0	0.250	6.4	1000
HT-5.9	5.20	132.0	5.91	150.0	1.42	36.0	0.250	6.4	1000

SCREW MOUNT & SPECIALTY CABLE TIES

SR 1787 Series
Adhesive Based Ladder Ties

NEW

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Strap is inserted through the buckle at the adhesive base
- Ladder style allows it to be adjustable
- Strong adhesion for quick and easy assembly

Item No.	Max Cable Diameter		L		W		Bulk Pack Qty
	in	mm	in	mm	in	mm	
460297	0.669	17.0	0.984	25.0	0.709	18.0	100
460298	0.866	22.0	1.201	30.5	0.827	21.0	100
460299	1.024	26.0	1.201	30.5	0.827	21.0	100

CTMT Series
Screw Mount Cable Tie

Figure 1

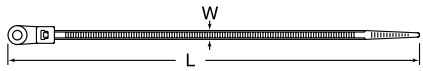
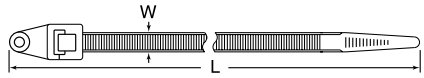


Figure 2

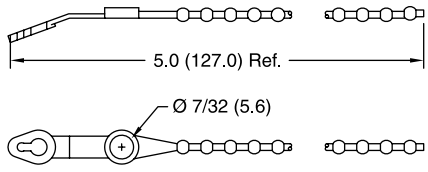


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Mountable with single screw or bolt

Item No.		Figure	L		W		Ø Max Bundle		Tensile Strength		Screw Size	Bulk Pack Qty
			in	mm	in	mm	in	mm	lbs.	N		
CTMT001A		1	4.33	110	0.098	2.5	0.984	25	18	80	#4	100
CTMT002A		1	6.75	171.5	0.146	3.7	1.575	40	40	178	#10	100
CTMT003A		1	8.62	219	0.165	4.2	2.047	52	50	222	#10	100
CTMT006A		2	16.14	410	0.311	7.9	4.409	112	120	534	M6	100
CTMT007A	—	2	11.81	300	0.307	7.8	3.150	80	120	534	M6	100

ST Series
Screw Mount Beaded Cable Tie

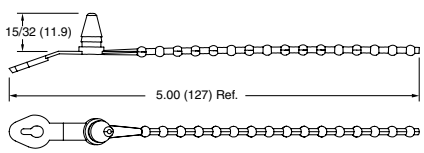


Specifications:
- Material: See table
- Color: Natural

Features:
- Tie is easily releasable
- Polypropylene material is very flexible
- Easily and securely mounted with a #12 (M5) screw

Item No.	Material	Ø Bundle Range		Screw Size	Bulk Pack Qty
		in	mm		
ST-205	UL94 HB Polypropylene	0.250 - 1.250	6.4 - 31.8	#12	1000
ST-305	UL94 V-2 Nylon 6/6	0.250 - 1.250	6.4 - 31.8	#12	1000

PT Series
Push In Beaded Cable Tie



Specifications:
- Material: See table
- Color: See table

Features:
- Easily snaps into mounting hole
- Tie is easily releasable
- Polypropylene material is very flexible

Item No.			Ø Bundle Range		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 Horizontal Burn Polypropylene	UL94 V-2 Nylon 6/6	Color	in	mm	in	mm	in	mm	
PT-203	**PT-303**	Black	1/4 - 1-1/4	6.4 - 31.8	0.250	6.4	1/32 - 1/8	0.8 - 3.2	1000
PT-205	**PT-305**	Natural	1/4 - 1-1/4	6.4 - 31.8	0.250	6.4	1/32 - 1/8	0.8 - 3.2	1000

WIT-A/WITBH Series
Push Mount Cable Tie

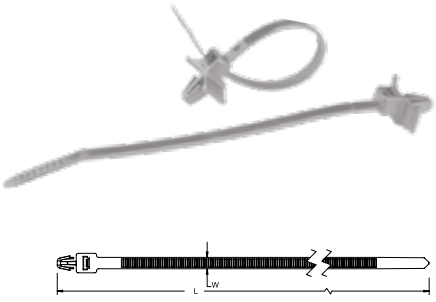


Figure 1

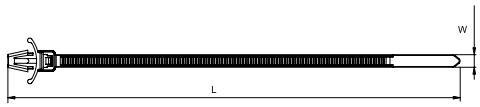


Figure 3

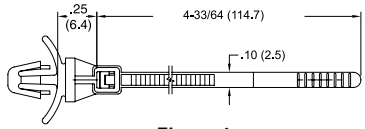


Figure 4

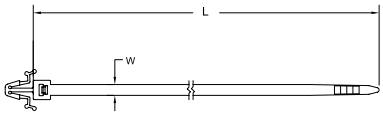


Figure 2

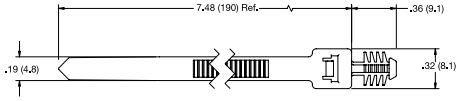


Figure 5

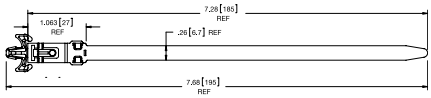


Figure 6

Specifications:
- Material: UL94 V-2 Nylon 6/6
- WITBH-50R-HS Material: UL94 V-2 Heat Stabilized Nylon serviceable to 239°F
- Color: Natural

Features:
- Easily snaps into pre-drilled holes
- Can be mounted to installation before final assembly
- Combines a cable tie, mount and fastener in a single part
- Figures 2 and 6 are removable from the top of the board

Item No.	Figure	L Ref. in	L Ref. mm	W Ref. in	W Ref. mm	Ø Max Bundle in	Ø Max Bundle mm	Tensile Strength lbs.	Tensile Strength N	Ø Mounting Hole in	Ø Mounting Hole mm	Panel Thickness in	Panel Thickness mm	Bulk Pack Qty
WIT-50RLA-1	1	5.320	135.0	0.190	4.8	1.000	25.4	50	222	0.250	6.4	0.125	3.18	1000
WIT-50RLA-2	1	6.690	170.0	0.190	4.8	1.500	38.1	50	222	0.250	6.4	0.125	3.18	1000
WIT-50RLA-3	1	7.870	200.0	0.190	4.8	1.750	44.5	50	222	0.250	6.4	0.125	3.18	1000
WIT-50RLA-M	1	8.870	225.4	0.190	4.8	2.000	50.8	50	222	0.187	4.7	0.093	2.36	1000
WIT-30RAR1-2	2	5.125	130.0	0.14	3.6	1.000	25.4	30	135	0.189	4.8	0.079 - 0.094	2.0 - 2.4	100
WIT-30LAR1-2	2	6.125	155.5	0.14	3.6	1.25	31.8	30	135	0.189	4.8	0.079 - 0.094	2.0 - 2.4	100
WIT-18RA-01	3	4.290	109.0	0.100	2.5	0.830	21.0	18	80	0.190	4.8	0.060	1.6	1000
WIT-50SA-01	3	5.240	133.0	0.190	4.8	0.910	23.0	50	222	0.250	6.4	0.060	1.6	1000
WIT-50SA-1-01	3	5.240	133.0	0.190	4.8	0.910	23.0	50	222	0.250 - 0.270	6.4 - 6.8	0.030 - 0.080	0.8 - 2.0	1000
WIT-50SRA-01	3	6.810	173.0	0.190	4.8	1.420	36.0	50	222	0.250	6.4	0.060	1.6	1000
WIT-50SRA-1-01	3	6.810	173.0	0.190	4.8	1.420	36.0	50	222	0.250 - 0.270	6.4 - 6.8	0.030 - 0.080	0.8 - 2.0	1000
WIT-50RA-01	3	7.800	198.0	0.190	4.8	1.690	43.0	50	222	0.250	6.4	0.060	1.6	500
WIT-50RA-1-01	3	7.800	198.0	0.190	4.8	1.690	43.0	50	222	0.250 - 0.270	6.4 - 6.8	0.030 - 0.080	0.8 - 2.0	500
WIT-18R1A-4-01	4	4.760	121.1	0.100	2.5	0.750	19.1	18	80	0.156	4.0	0.031 - 0.078	0.8 - 2.0	1000
WIT-18RA-4-01-M	4	4.760	121.1	0.100	2.5	0.750	19.1	18	80	0.187	4.8	0.031 - 0.078	0.8 - 2.0	1000
WIT-18R2A-4-01	4	4.760	121.1	0.100	2.5	0.750	19.1	18	80	0.187	4.8	0.062 - 0.140	1.6 - 3.6	1000
WITBH-50R	5	See Figure 5				1.750	44.5	50	228	0.25	6.4	0.250	6.4	100
WITBH-50R-HS	5	See Figure 5				1.750	44.5	50	228	0.25	6.4	0.250	6.4	100
WIT-40LAR	6	See Figure 6				1.970	50	40	178	0.187	4.8	0.020 - 0.091	0.5 - 2.3	100

WIT-30RRA/TOAH Series
Releasable Arrowhead Cable Tie

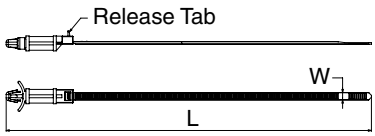


Figure 1

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Combines cable tie, mount and fastener in a single part
- Used to attach wire or cable bundles to a surface
- Easily snaps into pre-drilled holes
- WIT-30RRA part has a spacer after the arrowhead

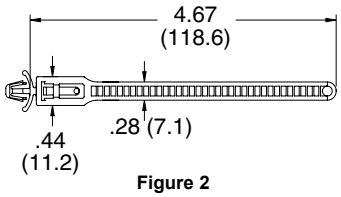
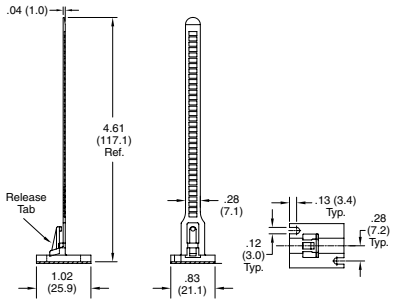


Figure 2

Item No.	Figure	L Ref. in	L Ref. mm	W Ref. in	W Ref. mm	Ø Max Bundle in	Ø Max Bundle mm	Tensile Strength lbs.	Tensile Strength N	Ø Mounting Hole in	Ø Mounting Hole mm	Panel Thickness in	Panel Thickness mm	Spacer Length in	Spacer Length mm	Bulk Pack Qty
WIT-30RRA-4-M	1	6.312	160.3	0.141	3.6	1.250	31.8	30	135	0.187	4.8	0.030 - 0.078	0.8 - 2.0	0.280	7.1	1000
WIT-30RRA-8-M	1	6.562	166.7	0.141	3.6	1.250	31.8	30	135	0.187	4.8	0.030 - 0.078	0.8 - 2.0	0.530	13.5	1000
WIT-30RRA-12-M	1	6.812	173.0	0.141	3.6	1.250	31.8	30	135	0.187	4.8	0.030 - 0.078	0.8 - 2.0	0.780	19.8	1000
WIT-30RRA-16-M	1	7.062	179.4	0.141	3.6	1.250	31.8	30	135	0.187	4.8	0.030 - 0.078	0.8 - 2.0	1.000	25.4	1000
WIT-30RRAA-4-M	1	6.362	161.6	0.141	3.6	1.250	31.8	30	135	0.250	6.4	0.030 - 0.078	0.8 - 2.0	0.280	7.1	1000
WIT-30RRAA-8-M	1	6.614	168.0	0.141	3.6	1.250	31.8	30	135	0.250	6.4	0.030 - 0.078	0.8 - 2.0	0.530	13.5	1000
WIT-30RRAA-12-M	1	6.862	174.3	0.141	3.6	1.250	31.8	30	135	0.250	6.4	0.030 - 0.078	0.8 - 2.0	0.780	19.8	1000
WIT-30RRAA-16-M	1	7.114	180.7	0.141	3.6	1.250	31.8	30	135	0.250	6.4	0.030 - 0.078	0.8 - 2.0	1.000	25.4	1000
TOAH-18-01	2	4.670	118.6	0.280	7.1	1.125	28.5	40	178	0.250	6.4	0.062	1.6	—	—	1000

CABLE TIES & STRAPS

TOBS Series
Adhesive/Screw Mount Tie



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

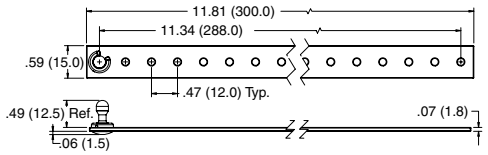
Features:
- Mounts with two #4 (M3) screws or adhesive
- Cable tie is releasable

Item No.	Slots for Screw Size		Ø Max Bundle		Bulk Pack Qty
	in	mm	in	mm	
TOBS-18-01A-RT	#4	M3	1.125	28.5	1000

ES Series
Rubber Strap with Locking Button

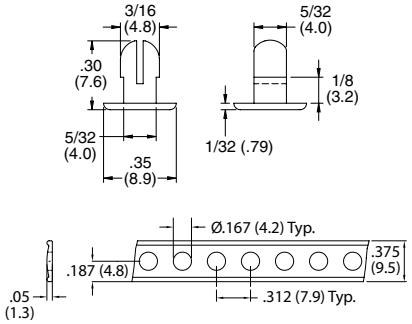
Specifications:
- Material: Strap; Silicone Rubber, 50 Shore A
  Latch Pin: UL94 HB Nylon 6/6
- Color: Black

Features:
- Rubber strap can be stretched and wrapped around bundles up to three times
- Grips the cables preventing movement
- For additional latch pins, order part number CS-113-6



Item No.	Ø Max Bundle		Max Perimeter		Bulk Pack Qty
	in	mm	in	mm	
ES-1	4.33	110.0	13.6	345.0	100

RNS/LB Series
Nylon Strap with Locking Button



Specifications:
- Material: Nylon 6/6
- Color: Black

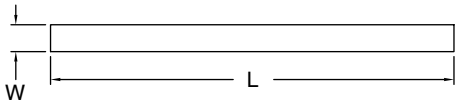
Features:
- 100 foot long strap can be cut to desired length
- Once bundle is wrapped, the strap is secured with mounting button, LB-5

Item No.	Description	Material UL Rating	Bulk Pack Qty	Pack Qty
RNS-167	Strap	UL94 HB	100 ft.	1
LB-5	Locking Button	UL94 V-2	100	100

RKS Series
Hook and Loop Strap

Specifications:
- Material: Hook: Low Density Polyethylene
  Loop: Nylon Knit
- Color: Black

Features:
- Heavy duty hook and loop
- Features VELCRO® brand hook and loop material
- User can cut to desired length
- Excellent in reusable applications



Item No.	L Length		W Width		Bulk Pack Qty
	in	mm	in	mm	
RKS-8-6-BK	6.0	152.4	.50	12.7	10
RKS-8-8-BK	8.0	203.2	.50	12.7	10
RKS-8-12BK	12.0	304.8	.50	12.7	10
RKS-16-8-BK	8.0	203.2	1.00	25.4	10
RKS-16-12-BK	12.0	304.8	1.00	25.4	10

RKWB/RKWFA Series
Hook and Loop Clamp

Specifications:
- Material: Hook and Loop
- Color: Black

Features:
- Hook and loop design
- RKWB accommodates multiple bundle diameters; up to 1-1/2"
- RKWFA accommodates multiple bundle diameters; up to 0.75"

Figure 1

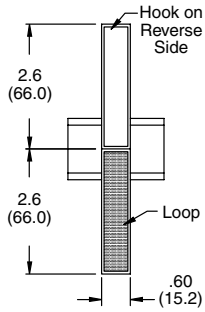
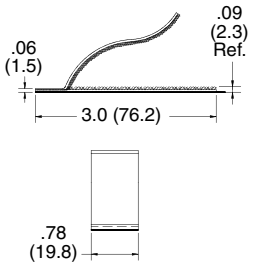
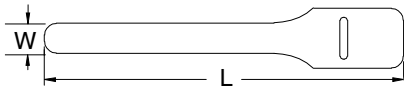


Figure 2



Item No.	Figure	Ø Max Bundle		Base		Bulk Pack Qty
		in	mm	in	mm	
RKWB-1	1	1.5	38.1	2.0 x 1.0	50.8 x 25.4	100
RKWFA-1	2	0.75	19.1	3.00 x 0.78	52.3 x 19.8	100

RKW Series
Hook and Loop Cable Tie



Specifications:
- Material: Loop - Nylon Knit
  Hook - Low-Density Polyethylene
- Color: See Table

Features:
- Easy assembly and removal
- Can be fastened and released several times
- Features: VELCRO® brand hook and loop material

See page 233 for Hook and Loop Cable Tie Holders.

Item No.			Screw Mount	L		W		Ø Max Bundle		Bulk Pack Qty
Black	Blue	Green		in	mm	in	mm	in	mm	
RKW-6-6-BK	RKW-6-6-BL	RKW-6-6-GN	No	6.0	152.4	0.38	9.5	1.400	35.6	10
RKW-8-6-BK	RKW-8-6-BL	RKW-8-6-GN	No	6.0	152.4	0.50	12.7	1.400	35.6	10
RKW-8-8-BK	RKW-8-8-BL	RKW-8-8-GN	Yes	8.0	203.2	0.50	12.7	1.920	48.7	10
RKW-8-9-BK	RKW-8-9-BL	RKW-8-9-GN	Yes	9.0	228.6	0.50	12.7	2.140	54.4	10
RKW-8-11-BK	RKW-8-11-BL	RKW-8-11-GN	No	11.0	279.4	0.50	12.7	2.618	66.5	10
RKW-8-12-BK	RKW-8-12-BL	RKW-8-12-GN	Yes	12.0	304.8	0.50	12.7	2.856	72.5	10
RKW-8-13-BK	RKW-8-13-BL	RKW-8-13-GN	Yes	13.0	330.2	0.50	12.7	3.396	86.3	10
RKW-12-9-BK	RKW-12-9-BL	RKW-12-9-GN	Yes	9.0	228.6	0.75	19.1	2.140	54.4	10
RKW-12-15-BK	RKW-12-15-BL	RKW-12-15-GN	No	15.0	381.0	0.75	19.1	3.918	99.5	10
RKW-12-18-BK	RKW-12-18-BL	RKW-12-18-GN	No	18.0	457.2	0.75	19.1	4.716	119.8	10
RKW-12-24-BK	RKW-12-24-BL	RKW-12-24-GN	No	24.0	609.6	0.75	19.1	6.288	159.7	10

Item No.				Screw Mount	L		W		Ø Max Bundle		Bulk Pack Qty
Orange	Red	White	Yellow		in	mm	in	mm	in	mm	
RKW-6-6-OR	RKW-6-6-RD	RKW-6-6-W	RKW-6-6-YL	No	6.0	152.4	0.38	9.5	1.400	35.6	10
RKW-8-6-OR	RKW-8-6-RD	RKW-8-6-W	RKW-8-6-YL	No	6.0	152.4	0.50	12.7	1.400	35.6	10
RKW-8-8-OR	RKW-8-8-RD	RKW-8-8-W	RKW-8-8-YL	Yes	8.0	203.2	0.50	12.7	1.920	48.7	10
RKW-8-9-OR	RKW-8-9-RD	RKW-8-9-W	RKW-8-9-YL	Yes	9.0	228.6	0.50	12.7	2.140	54.4	10
RKW-8-11-OR	RKW-8-11-RD	RKW-8-11-W	RKW-8-11-YL	No	11.0	279.4	0.50	12.7	2.618	66.5	10
RKW-8-12-OR	RKW-8-12-RD	RKW-8-12-W	RKW-8-12-YL	Yes	12.0	304.8	0.50	12.7	2.856	72.5	10
RKW-8-13-OR	RKW-8-13-RD	RKW-8-13-W	RKW-8-13-YL	Yes	13.0	330.2	0.50	12.7	3.396	86.3	10
RKW-12-9-OR	RKW-12-9-RD	RKW-12-9-W	RKW-12-9-YL	Yes	9.0	228.6	0.75	19.1	2.140	54.4	10
RKW-12-15-OR	RKW-12-15-RD	RKW-12-15-W	RKW-12-15-YL	No	15.0	381.0	0.75	19.1	3.918	99.5	10
RKW-12-18-OR	RKW-12-18-RD	RKW-12-18-W	RKW-12-18-YL	No	18.0	457.2	0.75	19.1	4.716	119.8	10
RKW-12-24-OR	RKW-12-24-RD	RKW-12-24-W	RKW-12-24-YL	No	24.0	609.6	0.75	19.1	6.288	159.7	10

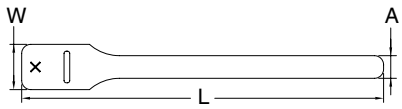
Item No.	Screw Mount	L		W		Ø Max Bundle		Bulk Pack Qty
Black		in	mm	in	mm	in	mm	
RKW-6-6-BK-C	No	6.0	152.4	0.38	9.5	1.400	35.56	100
RKW-8-6-BK-C	No	6.0	152.4	0.50	12.7	1.400	35.56	100
RKW-8-8-BK-C	Yes	8.0	203.2	0.50	12.7	1.920	48.70	100
RKW-8-9-BK-C	Yes	9.0	228.6	0.50	12.7	2.140	54.40	100
RKW-8-11-BK-C	No	11.0	279.4	0.50	12.7	2.618	66.50	100
RKW-8-12-BK-C	Yes	12.0	304.8	0.50	12.7	2.856	72.54	100
RKW-8-13-BK-C	Yes	13.0	330.2	0.50	12.7	3.396	86.25	100
RKW-12-9-BK-C	Yes	9.0	228.6	0.75	19.1	2.140	54.40	100
RKW-12-15-BK-C	No	15.0	381.0	0.75	19.1	3.918	99.52	100
RKW-12-18-BK-C	No	18.0	457.2	0.75	19.1	4.716	119.78	100
RKW-12-24-BK-C	No	24.0	609.6	0.75	19.1	6.288	159.71	100

HOOK AND LOOP CABLE TIES & CINCH STRAPS

RKWPR Series
Plenum Rated Hook and Loop Cable Tie

Specifications:
- Material/Color
  Hook: Black UL94 V-2 Polypropylene
  Loop: Maroon UL94 V-2 Nylon

Features:
- Meets UL94 V-2 requirements, UL #E143339
- Accepted as wire positioning device (16SA) in air handling spaces in accordance with section 300-22 paragraph (C) and (D) of the National Electrical Code
- VELCRO® brand hook and loop material

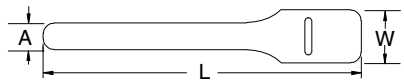


Item No.	Screw Mount	L		W		A		Bulk Pack Qty
		in	mm	in	mm	in	mm	
RKWPR-6-6	No	6.0	152.4	1.00	25.4	0.50	12.7	10
RKWPR-8-8	Yes	8.0	203.2	1.00	25.4	0.50	12.7	10
RKWPR-8-12	Yes	12.0	304.8	1.00	25.4	0.50	12.7	10
RKWPR-12-13	Yes	13.0	330.2	1.50	38.1	0.75	19.1	10

RKWE Series
Economy Hook and Loop Cable Tie

Specifications:
- Material: Hook: Low-Density Polyethylene
  Loop: Nylon Knit
- Color: Black

Features:
- VELCRO® brand hook and loop material
- Similar in function and purpose to the RKW Series, these economy ties are made from a lower-profile, economical material

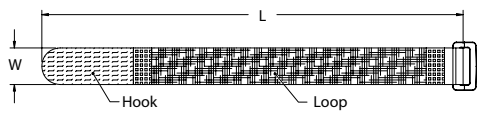


Item No.	L		W		A		Bulk Pack Qty
	in	mm	in	mm	in	mm	
RKWE-6-6-BK	6.0	152.4	0.75	19.1	0.38	9.5	10
RKWE-8-6-BK	6.0	152.4	1.00	25.4	0.50	12.7	10
RKWE-8-8-BK	8.0	203.2	1.00	25.4	0.50	12.7	10
RKWE-8-11-BK	11.0	279.4	1.00	25.4	0.50	12.7	10
RKWE-12-15-BK	12.0	304.8	1.50	38.1	0.75	19.1	10

RKWDM Series
Hook and Loop Cinch Strap with Metal Buckle

Specifications:
- Material: Nylon Woven Hook and Loop
  Buckle: Metal
- Color: Black

Features:
- Metal buckle for heavy duty industrial applications



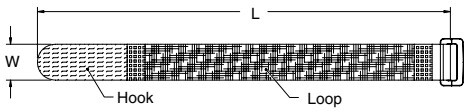
Item No.	L Length		W		Ø Approximate Bundle w/ Hook Fully Engaged		Bulk Pack Qty
	in	mm	in	mm	in	mm	
RKWDM-16-15-BK	15.0	381.0	1.00	25.4	3.750	95.0	10
RKWDM-16-20-BK	20.0	508.0	1.00	25.4	5.500	140.0	10
RKWDM-16-22-BK	22.0	559.0	1.00	25.4	5.938	151.0	10
RKWDM-16-24-BK	24.0	610.0	1.00	25.4	6.625	168.0	10
RKWDM-32-15-BK	15.0	381.0	2.00	51.0	3.750	95.0	10
RKWDM-32-20-BK	20.0	508.0	2.00	51.0	5.500	140.0	10
RKWDM-32-22-BK	22.0	559.0	2.00	51.0	6.000	152.0	10
RKWDM-32-24-BK	24.0	610.0	2.00	51.0	6.625	168.0	10

HOOK AND LOOP CINCH STRAPS

RKWD Series
Hook and Loop Cinch Strap

Specifications:
- Material: Nylon Woven Hook and Loop
  Buckle: Nylon
- Color: See Table

Features:
- Heavy duty hook and loop
- Buckle on the tie acts as a pulley providing leverage to pull the strap as tightly as needed
- The strap section goes through the buckle, the remainder of the material gets pulled around the buckle and can then be attached to the same side of the material
- The non-metallic buckle is safe to use around electrical and magnetic applications

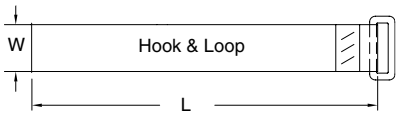


Item No.		L Length		W		Ø Approximate Bundle w/ Hook Fully Engaged		Bulk Pack Qty
Black	Orange	in	mm	in	mm	in	mm	
RKWD-12-12-BK	—	12.0	305	0.75	19.1	2.875	73	10
RKWD-12-18-BK	—	18.0	457	0.75	19.1	4.750	121	10
RKWD-16-9-BK	RKWD-16-9-OR	9.0	229	1.00	25.4	1.875	48	10
RKWD-16-12-BK	RKWD-16-12-OR	12.0	305	1.00	25.4	2.875	73	10
RKWD-16-15-BK	RKWD-16-15-OR	15.0	381	1.00	25.4	3.750	95	10
RKWD-16-20-BK	RKWD-16-20-OR	20.0	508	1.00	25.4	5.500	140	10
RKWD-16-24-BK	RKWD-16-24-OR	24.0	609	1.00	25.4	6.625	168	10

RKWDA Series
Extra Long/Cut to Length Cinch Strap

Specifications:
- Material: Hook and Loop: Nylon Woven
  Buckle: Nylon
- Color: Black

Features:
- Unique cut-to-length design eliminates the need to predetermine exact strap length
- Adheres to itself along its entire length



Item No.	L		W		Ø Bundle w/ Hook Fully Engaged		Bulk Pack Qty
	in	mm	in	mm	in	mm	
RKWDA-16-20-BK	20.0	508	1.00	25.4	5.500	140	10
RKWDA-16-24-BK	24.0	609	1.00	25.4	6.325	168	10
RKWDA-16-36-BK	36.0	914	1.00	25.4	10.500	267	10
RKWDA-16-48-BK	48.0	1219	1.00	25.4	14.375	365	10
RKWDA-32-20-BK	20.0	508	2.00	50.8	5.500	140	10
RKWDA-32-24-BK	24.0	610	2.00	50.8	6.628	169	10
RKWDA-32-36-BK	36.0	914	2.00	50.8	10.500	267	10
RKWDA-32-48-BK	48.0	1219	2.00	50.8	14.375	365	10

RKWDG/RKWDE Series
Hook and Loop Cinch Strap with Grommet

Specifications:
- Material: Nylon Woven Hook and Loop
  Buckle: Nylon
  Grommet: Brass
- Color: Black

Features:
- Grommet for mounting to walls, racks and mobile carts to organize and neatly route cables
- RKWDG centers bundle over mounting point
- RKWDE offsets bundle from mounting point
- Takes the stress off horizontal cable runs

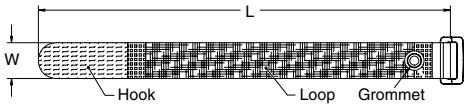


Figure 1

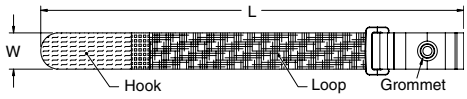


Figure 2

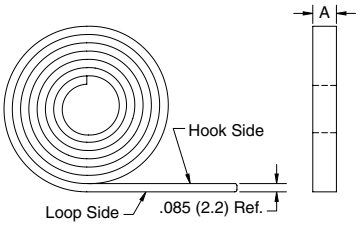
Item No.	Figure	L Length		W		Ø Approximate Bundle w/ Hook Fully Engaged		Grommet Ø Ref.		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
RKWDG-16-9-BK	1	9.0	229	1.00	25.4	1.875	48	0.250	6.4	10
RKWDE-16-9-BK	2	9.0	229	1.00	25.4	1.875	48	0.250	6.4	10
RKWDG-12-12-BK	1	12.0	305	0.75	19.1	2.875	73	0.250	6.4	10
RKWDE-12-12-BK	2	10.5	267	0.75	19.1	2.375	60	0.250	6.4	10
RKWDG-16-12-BK	1	12.0	305	1.00	25.4	2.875	73	0.250	6.4	10
RKWDE-16-12-BK	2	12.0	305	1.00	25.4	2.875	73	0.250	6.4	10
RKWDG-16-15-BK	1	15.0	381	1.00	25.4	3.750	95	0.250	6.4	10
RKWDE-16-15-BK	2	15.0	381	1.00	25.4	3.750	95	0.250	6.4	10
RKWDG-12-18-BK	1	18.0	457	0.75	19.1	4.750	121	0.250	6.4	10
RKWDE-12-18-BK	2	16.5	419	0.75	19.1	4.250	108	0.250	6.4	10
RKWDG-16-20-BK	1	20.0	508	1.00	25.4	5.500	140	0.250	6.4	10
RKWDE-16-20-BK	2	20.0	508	1.00	25.4	5.500	140	0.250	6.4	10
RKWDG-16-24-BK	1	24.0	609	1.00	25.4	6.625	168	0.250	6.4	10
RKWDE-16-24-BK	2	24.0	609	1.00	25.4	6.625	168	0.250	6.4	10

HOOK AND LOOP ROLLS

RKWR Series
Hook and Loop Roll

Specifications:
- Material: Hook: Low-Density Polyethylene
  Loop: Nylon Knit
- Color: See Table

Features:
- This product features VELCRO® brand Hook and Loop material
- User can cut to desired length
- Available in two lengths; 5 yards and 25 yards

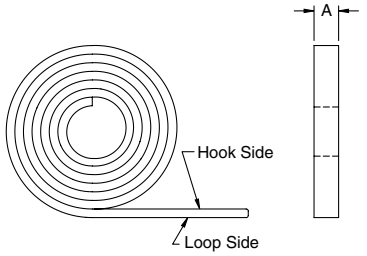


Item No.				A		Roll Length	Pack Qty
Black	Blue	Grey	Red	in	mm		
RKWR-3-BK	RKWR-3-BL	RKWR-3-GY	RKWR-3-RD	0.50	12.7	5 Yards	1
RKWR-1-BK	RKWR-1-BL	RKWR-1-GY	RKWR-1-RD	0.75	19.1	5 Yards	1
RKWR-2-BK	RKWR-2-BL	RKWR-2-GY	RKWR-2-RD	1.00	25.4	5 Yards	1
RKWR-3L-BK	RKWR-3L-BL	RKWR-3L-GY	RKWR-3L-RD	0.50	12.7	25 Yards	1
RKWR-1L-BK	RKWR-1L-BL	RKWR-1L-GY	RKWR-1L-RD	0.75	19.1	25 Yards	1
RKWR-2L-BK	RKWR-2L-BL	RKWR-2L-GY	RKWR-2L-RD	1.00	25.4	25 Yards	1

RKWRE Series
Economy Hook and Loop Roll

Specifications:
- Material: Hook: Low-Density Polyethylene
  Loop: Nylon Knit
- Color: Black

Features:
- This product features VELCRO® brand hook and loop material
- Similar in function and purpose to the RKWR series of rolls, these economy rolls are made from a lower-profile, economical material
- User can cut to desired length

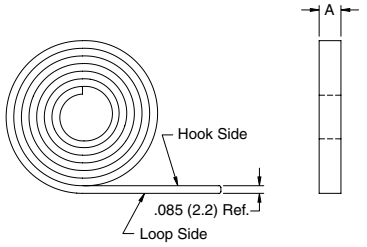


Item No.	A		Roll Length	Pack Qty
	in	mm		
RKWRE-3L	0.50	12.7	25 Yards	1
RKWRE-1L	0.75	19.1	25 Yards	1

RKWRPR Series
Plenum Rated Hook and Loop Roll

Specifications:
- Material: Hook: UL94 V-2 Black Polypropylene
  Loop: UL94 V-2 Maroon Nylon
- Color: Maroon

Features:
- This product features VELCRO® brand hook and loop material
- Meets UL94 V-2 requirements. UL E143339
- Accepted as a wire positioning device (16SA) in air handling spaces in accordance with section 300-22 paragraph (C) and (D) of the National Electrical Code
- User can cut to desired length

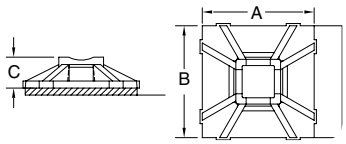


Item No.	A		Roll Length	Pack Qty
	in	mm		
RKWRPR-3	0.50	12.7	5 Yards	1
RKWRPR-1	0.75	19.1	5 Yards	1
RKWRPR-2	1.00	25.4	5 Yards	1
RKWRPR-3L	0.50	12.7	25 Yards	1
RKWRPR-1L	0.75	19.1	25 Yards	1
RKWRPR-2L	1.00	25.4	25 Yards	1

MFTH Series
Mini Cable Tie Mount with Adhesive Base

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

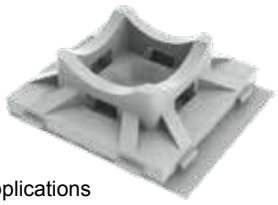
Features:
- Cable ties can be inserted from all four sides
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Rubber adhesive develops its strength extremely fast



1/2" x 1/2"

Item No.		Used w/			A		B		C	
1000/Bag	100/Bag	Cable Ties	Approval	Adhesive	in	mm	in	mm	in	mm
MFTH-2-01A-RT-M	MFTH-2-01A-RT-C	18 lbs.		Acrylic	0.500	12.7	0.500	12.7	0.14	3.5
MFTH-2-01A1-M	MFTH-2-01A1-C	18 lbs.		Rubber	0.500	12.7	0.500	12.7	0.14	3.5

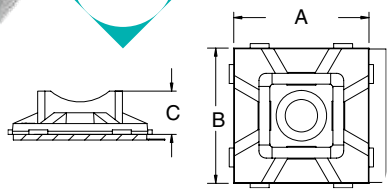
FTH-5/FTH-7 Series
Four Way Cable Tie Mount



EXPANDED LINE

Specifications:
- Material: UL94 V-2 Nylon 6/6 (Black is UV Stabilized)
- Color: See Table

Features:
- Now available in high bond acrylic adhesive for demanding applications
- Cable ties can be inserted from all four sides
- May be secured with screws or adhesive
- Rubber adhesive develops its strength extremely fast
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time



3/4" x 3/4"

Item No. Natural			Item No. Black						A	B	C
1000/Bag	100/Bag	10/Bag	1000/Bag	100/Bag	Approval	Used w/ Cable Ties	Adhesive	Recommended Mounting Screw	in	in	in
FTH-5A-RT-M	FTH-5A-RT-C	—	FTH-5A-RT-UVB-M	FTH-5A-RT-UVB-C		18 & 40 lbs.	Acrylic	#6 and M3.5 Flat Head	0.750	0.750	0.24
FTH-5A1-RT-M	FTH-5A1-RT-C	—	—	—		18 & 40 lbs.	Rubber	#6 and M3.5 Flat Head	0.750	0.750	0.24
—	—	• FTH-5-DHB	—	—	—	18 & 40 lbs.	High Bond Acrylic	#6 and M3.5 Flat Head	0.750	0.750	0.24
FTH-5-01-M	FTH-5-01-C	—	FTH-5-UVB-M	FTH-5-UVB-C		18 & 40 lbs.	Screw Mount	#6 and M3.5 Flat Head	0.750	0.750	0.24

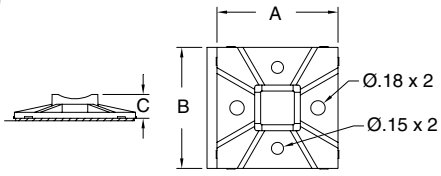
1" x 1"

Item No. Natural			Item No. Black						A	B	C
1000/Bag	100/Bag	10/Bag	1000/Bag	100/Bag	Approval	Used w/ Cable Ties	Adhesive	Recommended Mounting Screw	in	in	in
FTH-7A-RT-M	FTH-7A-RT-C	—	FTH-7A-RT-UVB-M	FTH-7A-RT-UVB-C		50 lbs.	Acrylic	#8 and M4 Flat Head	1.000	1.000	0.28
FTH-7A1-RT-M	FTH-7A1-RT-C	—	—	—		50 lbs.	Rubber	#8 and M4 Flat Head	1.000	1.000	0.28
—	—	• FTH-7-DHB	—	—	—	50 lbs.	High Bond Acrylic	#8 and M4 Flat Head	1.000	1.000	0.28
FTH-7-01-M	FTH-7-01-C	—	FTH-7-UVB-M	FTH-7-UVB-C		50 lbs.	Screw Mount	#8 and M4 Flat Head	1.000	1.000	0.28

FTH-8/FTH-10 Series
Four Way Cable Tie Mount

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Cable ties can be inserted from all four sides
- May be secured with screws or adhesive
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Low profile for tight spaces



1-1/2" x 1-1/2"

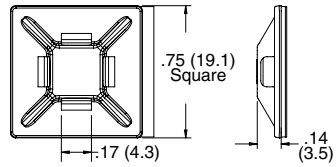
Item No.		Used with			Recommended	A		B		C	
1000/Bag	100/Bag	Cable Ties	Approval	Adhesive	Mounting Screw	in	mm	in	mm	in	mm
FTH-8A-RT-M	FTH-8A-RT-C	50 & 120 lbs.		Acrylic	2 x #6, #8 or M4	1.500	38.1	1.500	38.1	0.30	7.6

2" x 2"

Item No.		Used with			Recommended	A		B		C	
1000/Bag	100/Bag	Cable Ties	Approval	Adhesive	Mounting Screw	in	mm	in	mm	in	mm
FTH-10A-RT-M	FTH-10A-RT-C	50 & 120 lbs.		Acrylic	2 x #6, #8 or M4	2.000	50.8	2.00	50.8	0.30	7.6

CABLE TIE MOUNTS

FTH-40 Series
Low Profile Cable Tie Mount with Adhesive



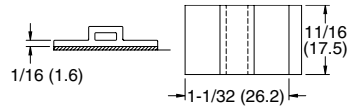
Specifications:
- Material: UL94 HB ABS
- Color: White

Features:
- Cable ties can be inserted from all four sides
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Rubber adhesive develops its strength extremely fast
- Low profile for tight spaces

3/4" x 3/4"

Item No.	Used w/ Cable Ties	Adhesive	Bulk Pack Qty
FTH-40	18 & 40 lbs.	None	1000
FTH-40A-RT	18 & 40 lbs.	Acrylic	1000
FTH-40A1-RT	18 & 40 lbs.	Rubber	1000

FTH-2 Series
Cable Tie Mount on Adhesive Base

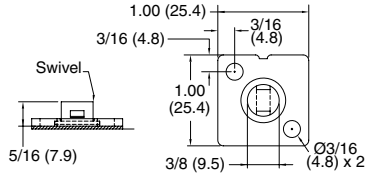


Specifications:
- Material: UL94 V-1 PPE/PS
- Color: White

Features:
- Easily applied

Part Number	Used w/ Cable Ties	Approval	Bulk Pack Qty
FTH-2A-RT-C	18 & 50 lbs.		100
FTH-2A-RT-M	18 & 50 lbs.		1000

FTH-4 Series
Cable Tie Mount with Swivel



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

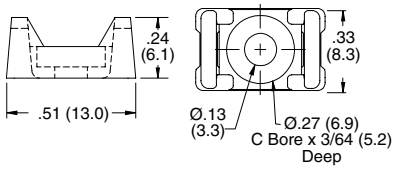
Features:
- Unique swivel head allows 360° rotation of the mounted bundle

Part Number	Used w/ Cable Ties	Approval	Recommended Mounting Screw	Bulk Pack Qty
FTH-4A-RT-M	18 & 40 lbs.		#8 or M4	1000

PLASTIC FASTENERS

800 847 0486
www.essentracomponents.com

FTH-28RS Series
Rivet/Screw Mount Cable Tie Mount



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Mounts with a screw or snap rivet (see rivet table)
- Cradle design provides stability for the bundle

Mounting Rivets for FTH-28RS		
Panel Thickness		Use Rivet Item No.
In	mm	
Up to 0.034	Up to 0.9	**SR-3035**
0.034 - 0.073	Up to 0.9	**SR-3045**
0.073 - 0.113	1.9 - 2.9	**SR-3055**
0.113 - 0.152	2.9 - 3.9	**SR-3065**
0.152 - 0.191	3.9 - 4.9	**SR-3075**
0.172 - 0.211	4.4 - 5.4	**SR-3080**
0.211 - 0.250	5.4 - 6.4	**SR-3090**
0.250 - 0.290	6.4 - 7.4	**SR-3100**

Item No.	Used w/ Cable Ties	Recommended Mounting Screw	Pack Qty
FTH-28RS-01	18 & 40 lbs.	#4, M3 Screw, SR-3XXX (See Table)	1000

FTH-13/FTH-14 Series
Rivet/Screw Mount Cable Tie Mount

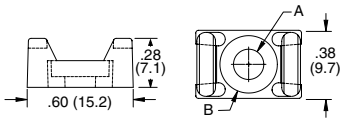


Figure 1

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Mounts with screw or snap rivet (see rivet table)
- Cradle design provides stability for the bundle
- Rivets found on page 120

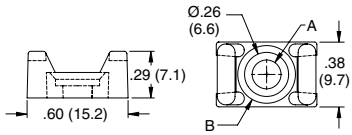


Figure 2

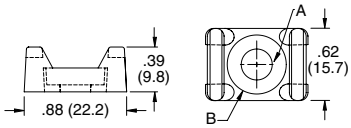


Figure 3

Item No.				Used w/	A		B			Bulk Pack
1000/Bag	100/Bag	Approval	Figure	Cable Ties	in	mm	in	mm	Mounting Method	Qty
FTH-13R-01-M	**FTH-13R-01-C**		1	18 - 50 lbs.	0.17	4.3	0.32	8.1	#8 or M4 screw or rivet	1000
FTH-13S-01-M	**FTH-13S-01-C**		2	18 - 50 lbs.	0.17	4.3	0.32	8.1	#6 or M3/#8 or M4 screw	1000
FTH-14R-01-M	**FTH-14R-01-C**		3	18 - 120 lbs.	0.21	5.2	0.38	9.5	#10 or M5 screw or rivet	1000
FTH-14S-01-M	**FTH-14S-01-C**		3	18 - 120 lbs.	0.26	6.6	0.49	12.5	1/4 or M6 screw	1000

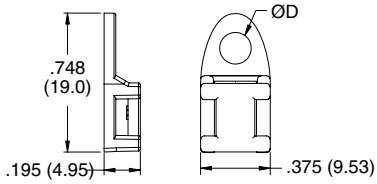
Mounting Rivets for Figure 1		
Panel Thickness		
in	mm	Use Rivet Part Number
0.018 - 0.058	0.5 - 1.5	**SR-4050**
0.058 - 0.097	1.5 - 2.5	**SR-4060**
0.097 - 0.137	2.5 - 3.5	**SR-4070**
0.137 - 0.176	3.5 - 4.5	**SR-4080**
0.215 - 0.255	5.5 - 6.5	**SR-4100**

Mounting Rivets for Figure 3		
Panel Thickness		
in	mm	Use Rivet Part Number
0.020 - 0.048	0.5 - 1.2	**SR-5055**
0.048 - 0.087	1.2 - 2.2	**SR-5065**
0.087 - 0.127	2.2 - 3.2	**SR-5075**
0.127 - 0.166	3.2 - 4.2	**SR-5085**
0.166 - 0.205	4.2 - 5.2	**SR-5095**
0.205 - 0.245	5.2 - 6.2	**SR-5105**

FTH-34/FTH-35 Series
Screw Mount Cable Tie Mount

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

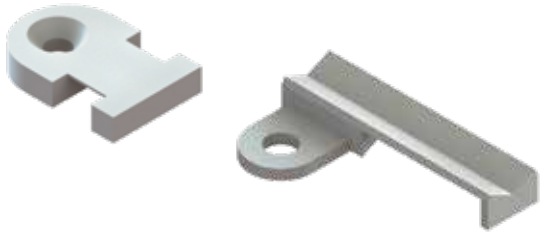
Features:
- Cable ties can be inserted from all four sides
- Small size allows for use where space is limited



Item No.	Ø Hole D		Used with Cable Ties	Accepts Screw Size	Bulk Pack Qty
	in	mm			
FTH-34-01	0.170	4.3	18 - 50 lbs.	#8 or M4	1000
FTH-35-01	0.200	5.1	18 - 50 lbs.	#10 or M5	1000

CABLE TIE MOUNTS

FTH-1/FTH-11 Series
Low Profile Screw Mount Cable Tie Mount



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Mounts with a #8 or M4 screw
- Low profile for limited space
- FTH-11-8-01 secures bundle length with multiple cable ties

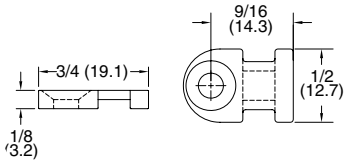


Figure 1

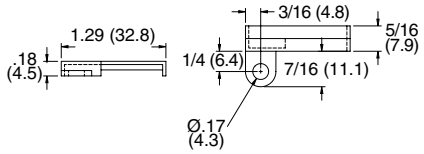
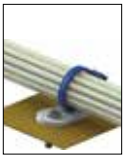


Figure 2

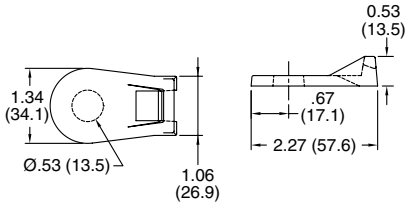
Item No.	Approval	Figure	Used w/ Cable Ties	Accepts Screw Size	Bulk Pack Qty
FTH-1-01-M		1	18 - 50 lbs.	#8 or M4	1000
FTH-11-8-01		2	18 - 50 lbs.	#8 or M4	100

FTH-17 Series
Heavy Duty Screw Mount Cable Tie Mount



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Can be used with ties up to 250 lbs.
- Low profile for tight spaces

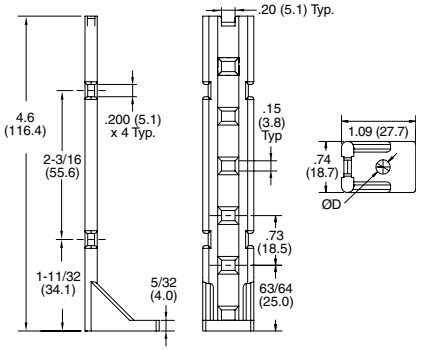


Item No.	Accepts Screw Size	Used w/ Cable Ties	Bulk Pack Qty
FTH-17-8-01	1/2 or M12	All Ties	100

FTH-24 Series
Screw Mount Wire Harness
Cable Tie Mount

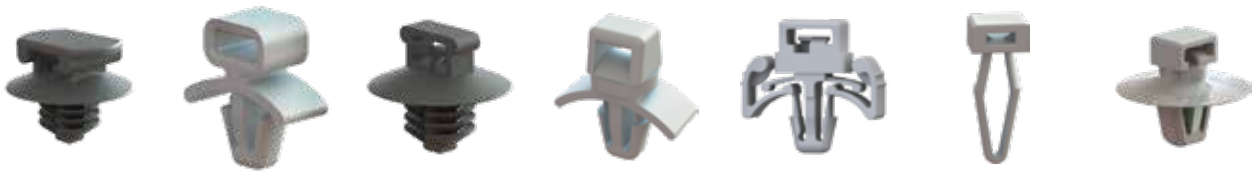
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Allows tying up multiple bundles of cables
- Supports cable bundles above the surface



Item No.	Mounting Method	Approval	Ø D in	Ø D mm	Used w/ Cable Ties	Bulk Pack Qty
FTH-24-01	#10 or M5 Screw		0.21	5.2	18 - 50 lbs.	100
FTH-24-1-01	1/4 or M6 Screw		0.25	6.4	18 - 50 lbs.	100

FTH Series
Snap In Cable Tie Mounts



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:
- Requires no adhesive or other mounting hardware
- Can be used in applications where back of panel is not accessible
- Figures 5,6,8, and 9 have pressure-hold feature that holds cable tie inside the tie holder
- Figures 4,5,8, and 9 have a cupped base that provides stability and also cover the mounting hole

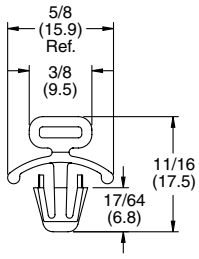


Figure 1

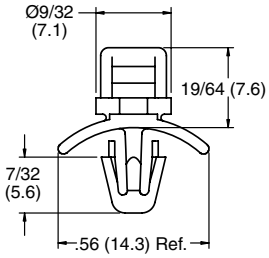


Figure 2

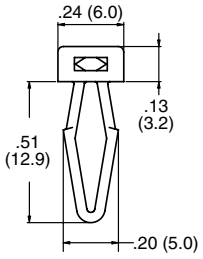


Figure 3

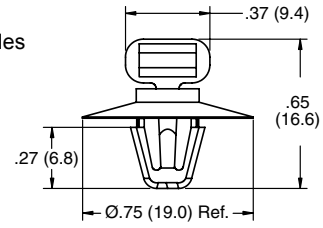


Figure 4

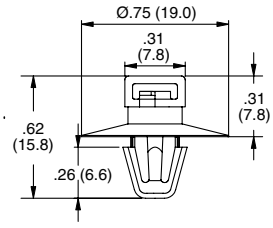


Figure 5

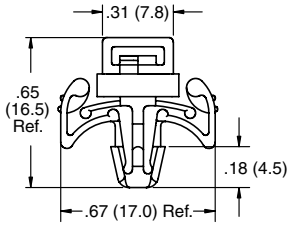


Figure 6

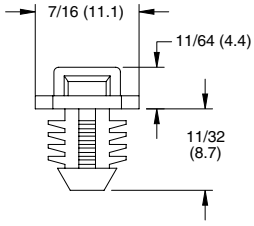


Figure 7

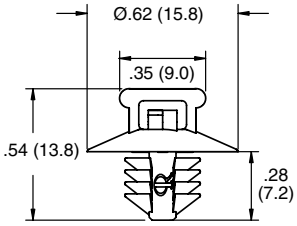


Figure 8

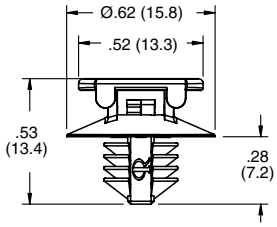


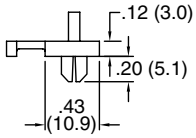
Figure 9

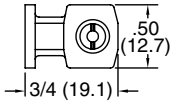
Item No.				Ø Mounting Hole		Panel Thickness		Used w/ Cable Ties	Bulk Pack Qty
Natural	Black	Approval	Figure	in	mm	in	mm		
FTH-6-01-M	—		1	0.250	6.4	0.047 - 0.109	1.2 - 2.8	18 - 50 lbs.	1000
FTH-6-01-C	—		1	0.250	6.4	0.047 - 0.109	1.2 - 2.8	18 - 50 lbs.	100
FTH-3-01-M	—		2	0.187	4.8	0.031 - 0.078	0.8 - 2.0	18 - 50 lbs.	1000
FTH-3-01-C	—		2	0.187	4.8	0.031 - 0.078	0.8 - 2.0	18 - 50 lbs.	100
FTH-39-1-01	—	—	3	0.126	3.2	0.039 - 0.177	1.0 - 4.5	18 lbs.	1000
FTH-29-01	—	—	4	0.250	6.4	0.062	1.6	18 - 50 lbs.	1000
FTH-33-01	—	—	5	0.250	6.4	0.062	1.6	40 - 50 lbs.	1000
FTH-41-01	—	—	6	0.187	4.8	0.020 - 0.090	0.5 - 2.3	18 - 50 lbs.	1000
FTH-15-01-M	—		7	0.312	7.8	0.250	6.4	18 - 40 lbs.	1000
FTH-15-01-C	—		7	0.312	7.8	0.250	6.4	18 - 40 lbs.	100
—	FTH-36-01BK	—	8	0.260 - 0.280	6.5 - 7.0	0.030 - 0.120	0.8 - 3.0	40 - 50 lbs.	1000
—	FTH-37-01BK	—	9	0.260 - 0.280	6.5 - 7.0	0.030 - 0.120	0.8 - 3.0	40 - 50 lbs.	1000

FTH-22 Series
Rivet Mount Cable Tie Mount

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Yellow

Features:
- Rivet designed into part expands to lock the tie holder in place
- Low profile design for where space is limited

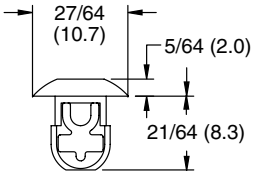




Item No.	Ø Mounting Hole		Panel Thickness		Used with Cable Ties	Bulk Pack Qty
	in	mm	in	mm		
FTH-22-01	0.196	5.0	0.030 - 0.125	0.8 - 3.2	18 - 50 lbs.	1000

CABLE TIE MOUNTS

FTH-9 Series
Reverse Mount Cable Tie Mount

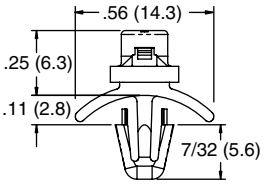


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

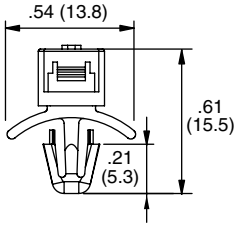
Features:
- Snap locks into place from outside of the chassis
- Low profile on the inside of the chassis
- Both sides of the panel must be accessible

Item No.	Approval	Ø Mounting Hole in	Ø Mounting Hole mm	Panel Thickness in	Panel Thickness mm	Accepts Cable Ties with Tensile lbs.	Bulk Pack Qty
FTH-9-01-M		0.250	6.4	0.125	3.2	18 - 50	1000
FTH-9-01-C		0.250	6.4	0.125	3.2	18 - 50	100

FTH-30 Series
Cable Tie Mount with Cable Tie Head



FTH-30-01



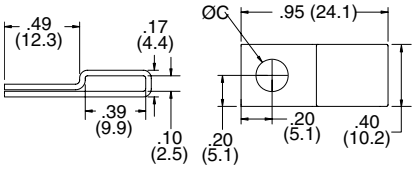
FTH-30-1-01

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Cable tie head contained in the tie holder
- Good for application in which a bundle is already wrapped
- Simply insert the end of the cable tie for secure hold

Item No.	Ø Mounting Hole In	Ø Mounting Hole mm	Panel Thickness In	Panel Thickness mm	Accepts Cable Ties with Tensile Lbs.	Bulk Pack Qty
FTH-30-01	0.187	4.8	0.031 - 0.078	0.8 - 2.0	18	1000
FTH-30-1-01	0.187	4.8	0.031 - 0.078	0.8 - 2.0	50	1000

MTH1 Series
Stainless Steel Tie Holder



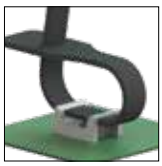
Specifications:
- Material: 304 Stainless Steel

Features:
- Low profile design
- Mounts with a screw or rivet

See page 218 for Stainless Steel Cable Ties.

Item No.	C Hole in	C Hole mm	Recommended Mounting Screw	Bulk Pack Qty
MTH1-1	0.177	4.5	#8 or M4	100
MTH1-2	0.213	5.4	#10 or M5	100
MTH1-3	0.266	6.8	1/4 or M6	100

FTH-27 Series
Hook and Loop Cable Tie Mount



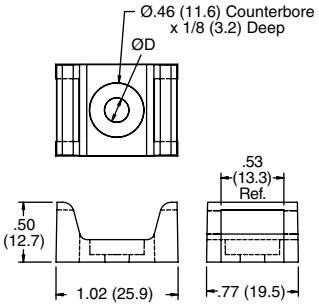


Figure 1

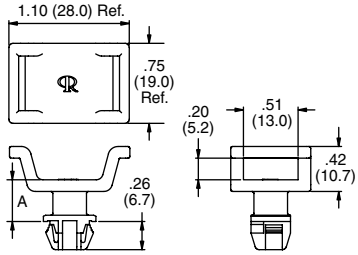


Figure 2

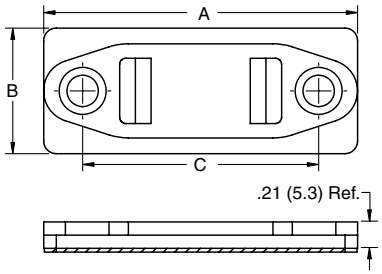
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:
- Mounts 1/2" RKW Hook and Loop Ties

See page 223 for Hook and Loop Cable Ties.

Item No.	Color	Accepts Hook and Loop Up To Width in	mm	Figure	Mounting Method	D in	mm	A in	mm	Panel Thickness in	mm	Bulk Pack Qty
FTH-27-RS-01	Natural	0.510	13	1	#10, M5 or #12 Screw	0.205	5.2	—	—	—	—	1000
FTH-27-12-01	Natural	0.510	13	1	#10, M5 or #12 Screw	0.230	5.8	—	—	—	—	1000
FTH-27-1-01BK	Black	0.510	13	2	0.370 (9.5) Square Hole	—	—	0.120	3.0	0.030 - 0.080	0.8 - 2.0	500
FTH-27-2-01BK	Black	0.510	13	2	0.370 (9.5) Square Hole	—	—	0.390	10.0	0.030 - 0.080	0.8 - 2.0	500

FTH-RKW Series
Hook and Loop Cable Tie Mount



Specifications:
- Material: Polyethylene
- Color: Black

Features:
- Mounts with adhesive or screws

See page 223 for Hook and Loop Cable Ties.

Item No.	Accepts Hook and Loop Up To Width in	mm	Mounting Method	A in	mm	B in	mm	C in	mm	Bulk Pack Qty
FTH-RKW-1	0.500	12.7	1/4" Screw	2.500	63.5	1.000	25.4	1.880	47.8	100
FTH-RKW-1A	0.500	12.7	Adhesive	2.500	63.5	1.000	25.4	1.880	47.8	100
FTH-RKW-2	1.000	25.4	1/4" Screw	3.250	82.6	1.500	38.1	2.620	66.5	100
FTH-RKW-2A	1.000	25.4	Adhesive	3.250	82.6	1.500	38.1	2.620	66.5	100

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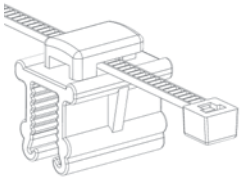
CABLE TIE MOUNTS

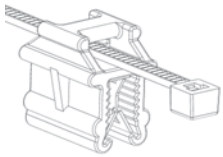
Edge Mount Cable Tie Mount

Specifications:
- Material: UL94 V-2 Nylon 6/6 and 302 Stainless Steel
- Color: Black

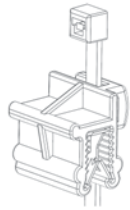
Features:
- Push the tie holder onto the edge of panel to accept a cable tie and mount a cable bundle
- Retention of 450 lbs. based on a 0.078 panel thickness
- Available with or without a pre-installed cable tie
- Types 1 through 5 do not come with cable tie pre-installed



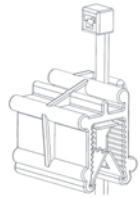
Type 1



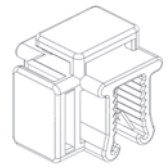
Type 2



Type 3



Type 4



Type 5

Type 6

Type 7

Type 8

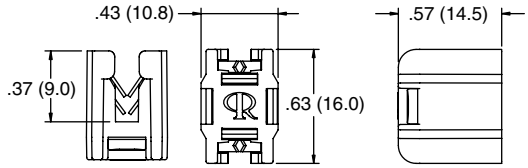
Type 9

Item No.	Used w/ Cable Ties	Pre-Installed Cable Tie	Type	Panel Thickness in	Panel Thickness mm	Width in	Width mm	Length in	Length mm	Height in	Height mm	Bulk Pack Qty
550243	Up to 50 Lbs.	—	1	0.028 - 0.118	0.7 - 3.0	0.472	12.0	0.591	15.0	0.622	15.8	100
550244	Up to 50 Lbs.	—	3	0.028 - 0.118	0.7 - 3.0	0.574	13.9	0.591	15.0	0.614	15.6	100
550245	Up to 50 Lbs.	—	2	0.028 - 0.118	0.7 - 3.0	0.472	12.0	0.591	15.0	0.614	15.6	100
550246	Up to 50 Lbs.	—	2	0.118 - 0.236	3.0 - 6.0	0.594	15.1	0.787	20.0	0.740	18.8	100
550247	Up to 50 Lbs.	—	3	0.028 - 0.118	0.7 - 3.0	0.547	13.9	0.591	15.0	0.614	15.6	100
550248	Up to 50 Lbs.	—	1	0.118 - 0.236	3.0 - 6.0	0.594	15.1	0.787	20.0	0.756	19.2	100
550249	Up to 50 Lbs.	—	4	0.118 - 0.236	3.0 - 6.0	0.673	17.1	0.787	20.0	0.748	19.0	100
550250	Up to 50 Lbs.	—	3	0.118 - 0.236	3.0 - 6.0	0.673	17.1	0.787	20.0	0.740	18.8	100
550251	Up to 50 Lbs.	—	5	0.028 - 0.118	0.7 - 3.0	0.594	15.1	0.591	15.0	0.594	15.1	100
550252	—	7.87 (200), 50 Lbs.	1	0.028 - 0.118	0.7 - 3.0	0.472	12.0	0.591	15.0	0.622	15.8	100
550253	—	7.87 (200), 50 Lbs.	3	0.028 - 0.118	0.7 - 3.0	0.574	13.9	0.591	15.0	0.614	15.6	100
550254	—	7.87 (200), 50 Lbs.	2	0.028 - 0.118	0.7 - 3.0	0.472	12.0	0.591	15.0	0.614	15.6	100
550255	—	7.87 (200), 50 Lbs.	2	0.118 - 0.236	3.0 - 6.0	0.594	15.1	0.787	20.0	0.740	18.8	100
550256	—	7.87 (200), 50 Lbs.	3	0.028 - 0.118	0.7 - 3.0	0.574	13.9	0.591	15.0	0.614	15.6	100
550257	—	7.87 (200), 50 Lbs.	1	0.118 - 0.236	3.0 - 6.0	0.594	15.1	0.787	20.0	0.756	19.2	100
550258	—	7.87 (200), 50 Lbs.	4	0.118 - 0.236	3.0 - 6.0	0.673	17.1	0.787	20.0	0.748	19.0	100
550259	—	7.87 (200), 50 Lbs.	3	0.118 - 0.236	3.0 - 6.0	0.673	17.1	0.787	20.0	0.740	18.8	100
550260	—	7.87 (200), 50 Lbs.	5	0.028 - 0.118	0.7 - 3.0	0.594	15.1	0.591	15.0	0.594	15.1	100
550277	—	5.51 (140), 40 Lbs.	6	0.028 - 0.118	0.7 - 3.0	0.591	15.0	0.787	20.0	6.575	167.0	100
550278	—	5.51 (140), 40 Lbs.	7	0.028 - 0.118	0.7 - 3.0	0.591	15.0	0.787	20.0	6.614	168.0	500
550279	—	5.51 (140), 40 Lbs.	8	0.028 - 0.118	0.7 - 3.0	0.591	15.0	0.787	20.0	6.575	167.0	100
550280	—	5.51 (140), 40 Lbs.	9	0.028 - 0.118	0.7 - 3.0	0.591	15.0	0.787	20.0	6.575	167.0	100

FTH-31 Series
Edge Mount Cable Tie Mount

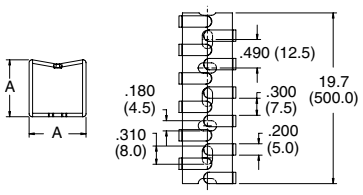
Specifications:
- Material: UL94 V-2 Nylon 6/6 and 304 Stainless Steel
- Color: Black

Features:
- Push the tie holder onto the edge of panel to accept a cable tie and mount a cable bundle
- Tie can be inserted from all four sides
- Retention Force:
  Steel Panel .03 (0.8) thick: 5 Lbs.
  Steel Panel .12 (3) thick: 10 Lbs.
  Plastic Panel .09-.12 (2.4-3) thick: 33 Lbs.



Item No.	Panel Thickness in	Panel Thickness mm	Accepts Cable Ties w/ Tensile lbs.	Bulk Pack Qty
FTH-31-01	0.03 - 0.12	0.8 - 3.0	40 - 50 lbs.	1000

RX Series
Flexible Duct

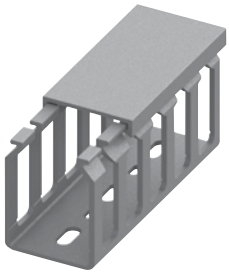


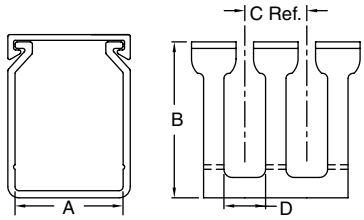
Specifications:
- Material: UL94 V-2 Polypropylene
- Color: Grey

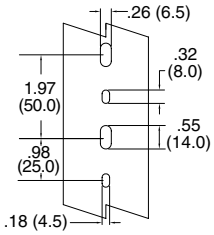
Features:
- Flexible ribs allow the cables to be easily pushed and pulled into and out of channel
- Flexible base makes routing cables from the back and sides of control panels to components mounted on panel doors easy

Item No.		External A x A		Internal A x A		Length		Bulk Pack
w/o Adhesive	w/ Adhesive	in	mm	in	mm	in	mm	Qty
RX1313-0	RX1313-4	0.49 x 0.49	12.5 x 12.5	0.171	110.0	19.7	500.0	112
RX1616-0	RX1616-4	0.63 x 0.63	16.0 x 16.0	0.287	185.0	19.7	500.0	84
RX2020-0	RX2020-4	0.79 x 0.79	20.0 x 20.0	0.496	320.0	19.7	500.0	112
RX2525-0	RX2525-4	0.98 x 0.98	25.0 x 25.0	0.775	500.0	19.7	500.0	70
RX3030-0	RX3030-4	1.18 x 1.18	30.0 x 30.0	1.116	720.0	19.7	500.0	50
RX4040-0	RX4040-4	1.57 x 1.5759	40.0 x 40.0	2.046	1320.0	19.7	500.0	50
RX5050-0	RX5050-4	1.97 x 1.99	50.0 x 50.0	3.162	2040.0	19.7	500.0	32

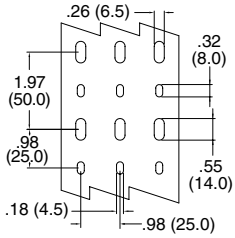
SRWD Series
Slotted Wire Duct







Mounting Style 1



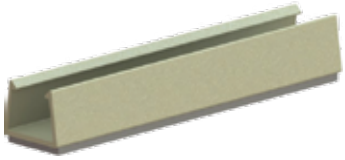
Mounting Style 2

Specifications:
- Material: PVC
- Color: Grey

Features:
- Lid is supplied with the base
- Fingers are scored for easy break off
- Used for general purpose control panel wiring and to route and protect wiring in communication closets
- Holds breakout wires while providing flexibility for adding or removing wires
- Sold in 6-1/2 foot lengths

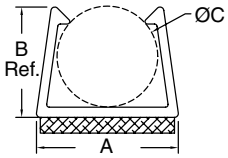
Item No.	Approval	A		B		C		D		Mounting Style	Length		In Pack	Pack Qty
		in	mm	in	mm	in	mm	in	mm		ft	m		
SRWD-1015		1.000	25.4	1.500	38.1	0.79	20.0	0.31	8.0	1	6.5	2.0	78 ft	1
SRWD-1515		1.500	38.1	1.500	38.1	0.79	20.0	0.31	8.0	1	6.5	2.0	78 ft	1
SRWD-1520		1.500	38.1	2.000	50.8	0.79	20.0	0.31	8.0	1	6.5	2.0	52 ft	1
SRWDN1-1530		1.500	38.1	3.000	76.2	0.39	10.0	0.16	4.0	1	6.5	2.0	78 ft	1
SRWD-2020		2.000	50.8	2.000	50.8	0.79	20.0	0.31	8.0	1	6.5	2.0	52 ft	1
SRWDN1-2030		2.000	50.8	3.000	76.2	0.39	10.0	0.16	4.0	1	6.5	2.0	78 ft	1
SRWD-4020		4.000	101.6	2.000	50.8	0.79	20.0	0.31	8.0	2	6.5	2.0	26 ft	1

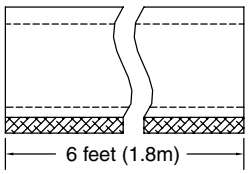
SCD Series
Single Cable Duct



Specifications:
- Material: UL94 V-0 PVC
- Color: Tan

Features:
- Designed to route single coax or computer cable
- Supplied in 6 foot lengths
- Adhesive base for easy mounting

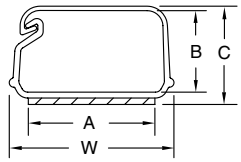


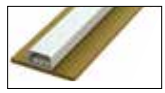


Item No.	C Holding Ø		A		B Ref.		Cable Recommendations	Length		In Pack	Pack Qty
	in	mm	in	mm	in	mm		ft	m		
SCD-1521	0.156 - 0.218	4.0 - 5.5	0.30	7.6	0.25	6.4	RG58	6	1.8	60 ft	1
SCD-2228	0.218 - 0.280	5.5 - 7.1	0.36	9.1	0.29	6.6	RG59, RG62, RG6, 9 Line	6	1.8	60 ft	1

CABLE DUCT, FLEXIBLE CONDUIT & FITTINGS

SRL Series
Locking Duct on Adhesive Base



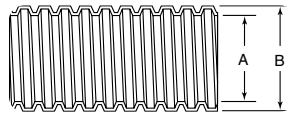


Specifications:
- Material: UL94 V-0 PVC
- Color: White

Features:
- Adhesive base for fast, easy installation
- When lid is shut the cables are locked into place
- Lightweight and aesthetically pleasing

Item No.	A		B		W		C Ref.		Length		In Pack	Pack Qty
	in	mm	in	mm	in	mm	in	mm	ft	m		
SRL1-3-WH6A	0.625	15.9	0.40	10.2	0.81	20.7	0.49	12.3	6	1.8	72 ft	1
SRL1-5-WH6A	0.750	19.1	0.58	14.7	0.99	25.1	0.67	8.5	6	1.8	72 ft	1
SRL1-10-WH6A	1.125	28.6	0.82	20.8	1.52	38.3	0.95	24.1	6	1.8	72 ft	1

CF Series
PVC Coated Metal Conduit

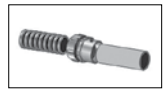


Specifications:
- Material: PVC Coated Steel in Coil
- Color: Black

Features:
- Designed to be liquid-tight and has high tensile strength
- Good resistance to corrosion and high heat

Item No.	Sizes	A ID Min		B OD Min		Roll Length		w Pack Qty
		in	mm	in	mm	ft	m	
CF3020A	3/8	0.393	10.00	0.570	14.50	164	50	1
CF3060A	1/2	0.496	12.60	0.637	16.20	164	50	1
CF3090A	3/4	0.826	21.00	0.960	24.40	164	50	1
CF3140A	1	1.035	26.30	1.204	30.60	164	50	1
CF3160A	1-1/4	1.377	35.00	1.598	40.60	98	30	1
CF3180A	1-1/2	1.586	40.30	1.811	46.00	82	25	1
CF3200A	2	2.031	51.60	2.299	58.40	65	20	1

MCF Series
PVC Coated Metal Conduit

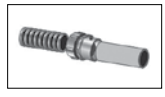


Specifications:
- Material: Zinc Alloy
- Connection Type: Set Screw EMT Pipe

Features:
- Connects convoluted metal conduit to EMT pipe in order to protect wires or cables

Item No.	EMT Pipe Sizes	Used With Metal Conduit	Mounting Hole		Bulk Pack Qty
			in	mm	
MCF04A	1/2	CF3060A	0.767	19.50	50
MCF06A	3/4	CF3090A	1.027	26.10	50
MCF08A	1	CF3140A	1.267	32.20	30
MCF10A	1-1/4	CF3160A	1.523	38.70	20
MCF12A	1-1/2	CF3180A	2.035	51.70	10
MCF14A	2	CF3200A	2.515	63.90	5

MCF Series
Fittings for PVC Pipe to Metal Conduit



Specifications:
- Material: Zinc Alloy
- Connection Type: Set Screw EMT Pipe

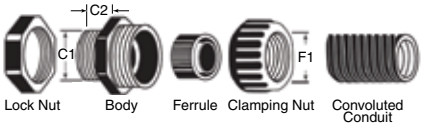
Features:
- Connects convoluted metal conduit to PVC pipe in order to protect wires or cables

Item No.	PVC Pipe Sizes	Used With Metal Conduit	Mounting Hole		Bulk Pack Qty
			in	mm	
MCF106A	3/4	CF3090A	1.091	27.70	50
MCF108A	1	CF3140A	1.350	34.30	30
MCF110A	1-1/4	CF3160A	1.724	43.80	20
MCF112A	1-1/2	CF3180A	2.035	51.70	10
MCF114A	2	CF3200A	2.516	63.90	5

NPT, PG & Metric Threads
Metal Conduit Fittings

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black
- Temperature Range: -40°F to 221°F (-40°C to 105°C)

Features:
- Provides strong pull out strength and anti-vibration properties
- Eliminates chance of cutting into conduit and creating leak paths
- Reusable

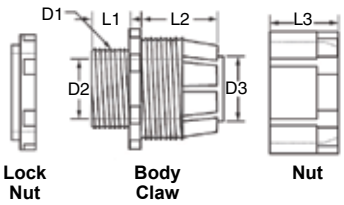


Item No.	Thread	Max Joint F1 in	Max Joint F1 mm	Used w/ Metal Conduit	Thread OD C1 in	Thread OD C1 mm	Ø Mounting Hole in	Ø Mounting Hole mm	Thread Length C2 in	Thread Length C2 mm	Body Min ID in	Body Min ID mm	Bulk Pack Qty
MCF202A	NPT 1/2	0.720	18.30	**CF3020A**	0.835	21.22	0.842 - 0.854	21.40 - 21.70	0.512	13.00	0.425	10.80	50
MCF204A	NPT 3/4	0.866	22.00	**CF3090A**	1.046	26.56	1.055 - 1.066	26.80 - 27.10	0.591	15.00	0.563	14.30	50
MCF250A	PG11	0.720	18.30	**CF3020A**	0.732	18.60	0.732 - 0.744	18.60 - 18.90	0.394	10.00	0.425	10.80	50
MCF252A	PG13.5	0.720	18.30	**CF3020A**	0.803	20.40	0.803 - 0.814	20.40 - 20.70	0.394	10.00	0.425	10.80	50
MCF254A	PG16	0.720	18.30	**CF3020A**	0.886	22.50	0.885 - 0.897	22.50 - 22.80	0.433	11.00	0.425	10.80	50
MCF256A	PG16	0.866	22.00	**CF3060A**	0.886	22.50	0.885 - 0.897	22.50 - 22.80	0.394	10.00	0.563	14.30	50
MCF258A	PG21	0.866	22.00	**CF3060A**	1.114	28.30	1.110 - 1.120	28.30 - 28.70	0.492	12.50	0.563	14.30	50
MCF260A	PG21	1.043	26.50	**CF3090A**	1.114	28.30	1.110 - 1.120	28.30 - 28.70	0.472	12.00	0.709	18.00	50
MCF262A	PG29	1.358	34.50	**CF3140A**	1.457	37.00	1.450 - 1.470	37.00 - 37.40	0.472	12.00	0.933	23.70	10
MCF300A	M16X1.5	0.720	18.30	**CF3020A**	0.630	16.00	0.629 - 0.641	16.00 - 16.30	0.394	10.00	0.425	10.80	50
MCF304A	M20X1.5	0.720	18.30	**CF3020A**	0.787	20.00	0.787 - 0.799	20.00 - 20.30	0.394	10.00	0.425	10.80	50
MCF306A	M20X1.5	0.866	22.00	**CF3060A**	0.787	20.00	0.787 - 0.799	20.00 - 20.30	0.394	10.00	0.563	14.30	50
MCF310A	M25X1.5	0.720	18.30	**CF3020A**	0.984	25.00	0.984 - 1.000	25.00 - 25.40	0.472	12.00	0.425	10.80	50
MCF312A	M25X1.5	0.866	22.00	**CF3060A**	0.984	25.00	0.984 - 1.000	25.00 - 25.40	0.394	10.00	0.563	14.30	50
MCF314A	M25X1.5	1.043	26.50	**CF3090A**	0.984	25.00	0.984 - 1.000	25.00 - 25.40	0.394	10.00	0.709	18.00	50
MCF316A	M32X1.5	0.866	22.00	**CF3060A**	1.260	32.00	1.259 - 1.275	32.00 - 32.40	0.472	12.00	0.563	14.30	10
MCF318A	M32X1.5	1.358	34.50	**CF3140A**	1.260	32.00	1.259 - 1.275	32.00 - 32.40	0.394	10.00	0.933	23.70	10

FCA200 Series
Flexible Conduit Fittings

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Grey
- Temperature Range: -40°F to 221°F (-40°C to 105°C)

Features:
- Connects plastic convoluted conduit to control panels, machinery, and other equipment



Item No.	Ø Mounting Hole in	Ø Mounting Hole mm	Used w/ Plastic Conduit	D2 in	D2 mm	D3 in	D3 mm	L1 in	L1 mm	L2 in	L2 mm	L3 in	L3 mm	Bulk Pack Qty
FCA200A	0.567	14.4	**CF001A**	0.248	6.3	0.295	7.5	0.382	9.7	0.728	18.5	0.626	15.9	50
FCA202A	0.626	15.9	**CF003A**	0.433	11	0.425	10.8	0.394	10	0.705	17.9	0.618	15.7	50
FCA204A	0.630	16	**CF004A**	0.437	11.1	0.524	13.3	0.382	9.7	0.732	18.6	0.626	15.9	50
FCA206A	0.756	19.2	**CF005A**	0.591	15	0.579	14.7	0.394	10	0.697	17.7	0.630	16	50
FCA208A	0.787	20	**CF006A**	0.606	15.4	0.677	17.2	0.386	9.8	0.693	17.6	0.642	16.3	50
FCA210A	0.984	25	**CF008A**	0.744	18.9	0.780	19.8	0.449	11.4	0.929	23.6	0.811	20.6	50
FCA212A	1.228	31.2	**CF009A**	1.024	26	0.957	24.3	0.472	12	0.898	22.8	0.811	20.6	25
FCA214A	1.260	32	**CF010A**	1.055	26.8	1.126	28.6	0.445	11.3	0.917	23.3	0.815	20.7	25
FCA216A	1.476	37.5	**CF011A**	1.240	31.5	1.244	31.6	0.445	11.3	0.929	23.6	0.815	20.7	25
FCA218A	1.575	40	**CF012A**	1.287	32.7	1.370	34.8	0.453	11.5	0.917	23.3	0.819	20.8	25
FCA220A	1.732	44	**CF013A**	1.476	37.5	1.594	40.5	0.496	12.6	0.878	22.3	0.815	20.7	10
FCA222A	1.732	44	**CF014A**	1.476	37.5	1.555	39.5	0.496	12.6	0.850	21.6	0.815	20.7	10

FCA Series
Flexible Conduit Adapters

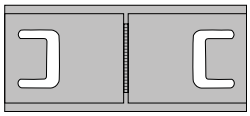
Specifications:
- Material: UL94 HB ABS
- Color: Grey

Features:
- FCA02A to FCA08A can be used to connect plastic convoluted conduit
- FCA102A to FCA108A can be used to connect plastic convoluted conduit to PVC pipe

Conduit to Conduit Connector

Item No.	Used w/ Plastic Conduit	Bulk Pack Qty
FCA02A	**CF004A**	20
FCA04A	**CF006A**	20
FCA06A	**CF008A**	20
FCA08A	**CF010A**	20

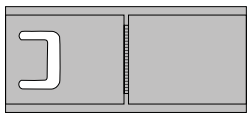
Conduit to Conduit



Conduit to PVC Pipe

Item No.	Used w/ Plastic Conduit	Bulk Pack Qty
FCA102A	**CF004A**	20
FCA104A	**CF006A**	20
FCA106A	**CF008A**	20
FCA108A	**CF010A**	20

Conduit to PVC Pipe

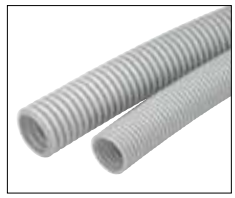


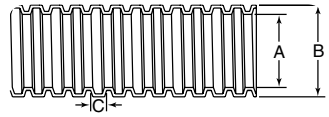
FLEXIBLE CONDUIT & FITTINGS

CF Series
Unsplit Polyethylene Conduit

Specifications:
- Material: High-Density Polyethylene
- Color: Grey
- Temperature Range: –40°F to 200°F (–40°C to 93°C)

Features:
- Wire and cable protection for electrical harnesses
- Can also be used to protect hydraulic hoses
- Flexible body allows for easy corner/elbow wiring



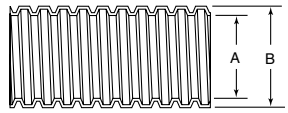


Item No.	Ø Nominal	A		B		C		Roll Length		Pack Qty
	in	in	mm	in	mm	in	mm	ft	m	
CF001A	1/4	0.291	7.390	0.402	10.21	0.104	2.64	984	300	1
CF002A	3/8	0.421	10.69	0.555	14.10	0.080	2.04	328	100	1
CF003A	3/8	0.421	10.69	0.630	16.00	0.130	3.30	328	100	1
CF004A	1/2	0.543	13.79	0.787	19.99	0.124	3.14	328	100	1
CF005A	5/8	0.555	14.10	0.866	22.00	0.144	3.66	328	100	1
CF006A	11/16	0.677	17.20	0.866	22.00	0.124	3.14	328	100	1
CF007A	3/4	0.720	18.29	0.984	24.99	0.162	4.12	328	100	1
CF008A	7/8	0.835	21.21	1.016	25.81	0.124	3.14	328	100	1
CF009A	1	0.957	24.31	1.260	32.00	0.142	3.61	164	50	1
CF010A	1-1/8	1.130	28.70	1.339	34.01	0.124	3.14	164	50	1
CF011A	1-1/4	1.228	31.19	1.575	40.01	0.162	4.12	164	50	1
CF012A	1-3/8	1.374	34.90	1.654	42.01	0.124	3.14	164	50	1
CF013A	1-1/2	1.575	40.00	1.890	48.01	0.124	3.14	164	50	1
CF014A	1-5/8	1.559	39.60	1.969	50.01	0.191	4.85	164	50	1

CF Series
Unsplit Nylon Conduit

Specifications:
- Material: UL-94 HB Nylon
- Color: Black with Grey Stripe
- Temperature Range: –40°F to 300°F (–40°C to 149°C)

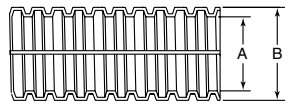
Features:
- Wire and cable protection for electrical harnesses
- Can also be used to protect hydraulic hoses
- Flexible body allows for easy corner/elbow wiring



Item No.	Ø Nominal	A Min		A Max		B Min		B Max		Wall Thickness		Roll Length		Pack Qty
	in	in	mm	in	mm	in	mm	in	mm	in	mm	ft	m	
CF1010A	1/4	0.237	6.02	0.266	6.76	0.375	9.53	0.400	10.16	0.040	1.02	2500	762	1
CF1020A	3/8	0.341	8.66	0.380	9.65	0.497	12.62	0.526	13.36	0.040	1.02	1500	457.2	1
CF1040A	7/16	0.399	10.13	0.437	11.10	0.573	14.55	0.597	15.16	0.050	1.27	1500	457.2	1
CF1060A	1/2	0.473	12.01	0.516	13.11	0.664	16.87	0.700	17.78	0.050	1.27	1000	304.8	1
CF1080A	5/8	0.603	15.32	0.639	16.23	0.805	20.45	0.837	21.26	0.050	1.27	700	213.4	1
CF1090A	3/4	0.707	17.96	0.759	19.28	0.950	24.13	0.989	25.12	0.050	1.27	450	137.2	1
900081	7/8	0.848	21.54	0.898	22.81	1.107	28.12	1.151	29.24	0.050	1.27	400	121.9	1
CF1140A	1	1.020	25.91	1.069	27.16	1.251	31.78	1.304	33.13	0.060	1.52	250	76.2	1
CF1140B*	1	1.020	25.91	1.069	27.16	1.251	31.78	1.304	33.13	0.060	1.52	250	76.2	1
CF1150A	1-1/8	1.122	28.50	1.176	29.86	1.356	34.58	1.413	35.88	0.060	1.52	200	60.9	1
900082	1-1/4	1.199	30.45	1.257	31.93	1.446	36.73	1.500	38.10	0.060	1.52	200	60.9	1

*** No grey stripe**

CS Series
Split Polypropylene Conduit



Specifications:
- Material: Polypropylene
- Color: Black
- Temperature Range: –40°F to 225°F (–40°C to 107°C)

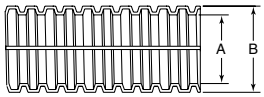
Features:
- Split design for easy installation and removal of wiring
- Wire and cable protection for electrical harnesses
- Flexible body allows for corner/elbow wiring
- Can be used to protect hydraulic hoses

Item No.	Ø Nominal	A		B		Roll Length		Pack Qty
	in	in	mm	in	mm	ft	m	
CS001A	1/4	0.291	7.39	0.402	10.21	984	300	1
CS002A	7/16	0.421	10.69	0.630	16.00	656	200	1
CS003A	1/2	0.543	13.79	0.689	17.50	656	200	1
CS004A	5/8	0.591	15.01	0.768	19.51	328	100	1
CS005A	3/4	0.760	19.30	0.937	23.80	328	100	1
CS006A	7/8	0.835	21.21	1.016	25.81	328	100	1
CS007A	1	0.957	24.31	1.260	32.00	164	50	1
CS008A	1	0.984	24.99	1.181	30.00	164	50	1
CS009A	1-1/8	1.102	27.99	1.339	34.01	164	50	1
CS010A	1-1/4	1.228	31.19	1.575	40.01	164	50	1
CS011A	1-5/8	1.559	39.59	1.969	50.00	164	50	1

CS (Nylon) Series
Split Nylon Conduit

Specifications:
- Material: UL94 HB Nylon
- Color: Black with Gray Stripe
- Temperature Range: –40°F to 300°F (–40°C to 149°C)

Features:
- Split design for easy installation and removal of wiring
- Cable protection for electrical wiring harnesses
- Flexible body allows for corner/elbow wiring
- Can be used to protect hydraulic hoses
- Split design for easy installation

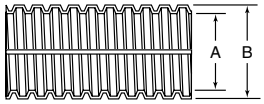


Item No.	Ø Nominal	A Min		A Max		B Min		B Max		Wall Thickness		Roll Length		Pack Qty
	in	in	mm	in	mm	in	mm	in	mm	in	mm	ft	m	
CS1020A	3/8	0.341	8.66	0.380	9.65	0.497	12.62	0.526	13.36	0.040	1.02	1900	579.1	1
CS1040A	7/16	0.399	10.13	0.437	11.10	0.573	14.55	0.597	15.16	0.050	1.27	1500	457.2	1
CS1060A	1/2	0.473	12.01	0.516	13.11	0.664	16.87	0.700	17.78	0.050	1.27	1100	335.3	1
CS1080A	5/8	0.603	15.32	0.639	16.23	0.805	20.45	0.837	21.26	0.050	1.27	800	243.8	1
CS1090A	3/4	0.707	17.96	0.759	19.28	0.950	24.13	0.989	25.12	0.050	1.27	550	164.6	1
CS1140A	1	1.020	25.91	1.069	27.16	1.251	31.78	1.304	33.13	0.006	1.52	300	91.4	1

CSEZ Series
EZ Dispenser Split Nylon Conduit

Specifications:
- Material: UL94 HB Nylon
- Color: Black with Gray Stripe
- Temperature Range: –40°F to 300°F (–40°C to 149°C)

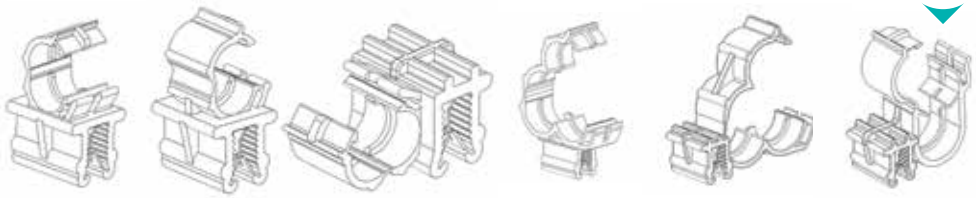
Features:
- Supplied in easy pull dispenser box
- Tangle free dispenses on interior reel
- Split design for easy installation and removal



Item No.	Ø Nominal	A Min		A Max		B Min		B Max		Wall Thickness		Roll Length		Pack Qty
	in	in	mm	in	mm	in	mm	in	mm	in	mm	Ft	m	
CSEZ1010A	1/4	0.256	6.50	0.276	7.01	0.373	9.47	0.398	10.11	0.040	1.02	100	30.48	1
CSEZ1030A	3/8	0.368	9.35	0.398	10.11	0.494	12.56	0.525	13.32	0.050	1.27	100	30.48	1
CSEZ1060A	1/2	0.473	12.01	0.516	13.11	0.664	16.87	0.700	17.78	0.050	1.27	100	30.48	1
CSEZ1080A	5/8	0.603	15.32	0.639	16.23	0.805	20.45	0.837	21.26	0.050	1.27	100	30.48	1
CSEZ1090A	3/4	0.707	17.96	0.759	19.28	0.950	24.13	0.989	25.12	0.050	1.27	100	30.48	1
CSEZ1140A	1	1.020	25.91	1.069	27.16	1.251	31.78	1.304	33.13	0.060	1.52	50	15.24	1

Edge Mount Conduit Holder

NEW



Type 1 **Type 2** **Type 3** **Type 4** **Type 5** **Type 6**

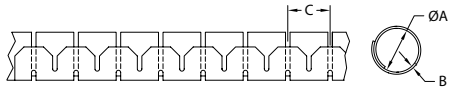
Specifications:
- Material: Heat Stabilized Nylon 6/6 and 302 Stainless Steel
- Color: Black

Features:
- Holds a variety of sizes of corrugated tubing in place
- Easy to install by pushing onto plastic or metal sheet edge
- Ideal for applciations where holes or adhesive is not suitable

Item No.	Type	Tube Size mm	Panel Thickness		Width		Length		Height to Center		Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	
550261	1	4.5	0.028 - 0.118	0.7 - 3	0.591	15	0.591	15	0.610	15.5	100
550262	2	4.5	0.028 - 0.118	0.7 - 3	0.591	15	0.591	15	0.610	15.5	100
550263	3	4.5	0.028 - 0.118	0.7 - 3	0.787	20	0.591	15	0.256	6.5	100
550264	3	4.5	0.118 - 0.236	3 - 6	0.787	20	0.787	20	0.303	7.7	100
550265	4	4.5	0.118 - 0.236	3 - 6	0.787	20	0.787	20	0.728	18.5	100
550266	4	7.5	0.118 - 0.236	3 - 6	0.591	15	0.591	15	0.689	17.5	100
550267	1	10	0.118 - 0.236	3 - 6	0.472	12	0.866	22	0.728	18.5	100
550268	3	10	0.028 - 0.118	0.7 - 3	0.866	22	0.591	15	0.343	8.7	100
550269	3	10	0.118 - 0.236	3 - 6	0.866	22	0.787	20	0.350	8.9	100
550270	4	2 x 10	0.028 - 0.118	0.7 - 3	0.472	12	1.339	34	0.764	19.4	100
550271	5	2 x 10	0.028 - 0.118	0.7 - 3	0.591	15	1.614	41	0.535	13.6	100
550272	6	2 x 10	0.028 - 0.118	0.7 - 3	1.181	30	0.591	15	0.335 / 0.728	—	100
550273	3	13	0.028 - 0.118	0.7 - 3	0.591	15	0.591	15	0.413	10.5	100
550274	2	13	0.118 - 0.236	3 - 6	0.906	23	0.787	20	0.917	23.3	100
550275	1	13	0.118 - 0.236	3 - 6	0.512	13	0.906	23	0.787	20	100
550276	2	17	0.028 - 0.118	0.7 - 3	1.181	30	0.591	15	0.894	22.7	100

WRAPS

SHR Series
Slit Harness Wrap

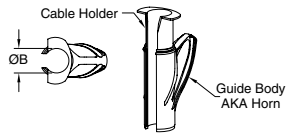


Specifications:
- Material: See Table
- Color: Black

Features:
- Protects wires from wear
- Easy to install

Item No.				Max Bundle Range		A		B		C		Roll Length			
UL94 V-0 Nylon 6	Nylon 6	LDPE	Approval	In	mm	In	mm	In	mm	In	mm	Ft	m	Installation Tool Part Number	Pack Qty
SHR-05-6V0B	SHR-05-6NB	SHR-05-PPB		0.240	6.0	0.200	5.0	0.032	0.8	0.390	10.0	328	100	CAT-05-PP-BL	1
SHR-08-6V0B	SHR-08-6NB	SHR-08-PPB		0.390	10.0	0.310	8.0	0.032	0.8	0.390	10.0	328	100	CAT-08-PP	1
SHR-15-6V0B	SHR-15-6NB	SHR-15-PPB		0.630	16.0	0.590	15.0	0.032	0.8	0.550	14.0	164	50	CAT-15-PP	1
SHR-20-6V0B	SHR-20-6NB	SHR-20-PPB		0.900	23.0	0.790	20.0	0.035	0.9	0.670	17.0	98	30	CAT-20-PP	1
SHR-25-6V0B	SHR-25-6NB	SHR-25-PPB		0.980	25.0	0.980	25.0	0.039	1.0	0.790	20.0	66	20	CAT-25-PP	1
SHR-32-6V0B	SHR-32-6NB	SHR-32-PPB		1.250	32.0	1.250	32.0	0.050	1.3	0.980	24.9	49	15	CAT-32-PP	1

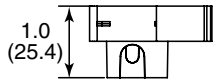
CAT Series
Installation Tool for SHR



Features:
- The easiest and quickest way to wrap cables
- Insert cables into the CAT installation tool
- Feed the slit end of the wrap over the horn of the tool and "zip" the wires into a neat bundle
- Allows for breakout of the cables
- Provides abrasion protection

Item No.	Ø Max Bundle B		To Be Used With	Pack Qty
	in	mm		
CAT-05-PP-BL	0.240	6.0	SHR-05	1
CAT-08-PP	0.370	9.5	SHR-08	1
CAT-15-PP	0.630	16.0	SHR-15	1
CAT-20-PP	0.790	20.0	SHR-20	1
CAT-25-PP	0.960	24.5	SHR-25	1
CAT-32-PP	1.220	31.0	SHR-32	1

SHR-C Series
SHR Clip



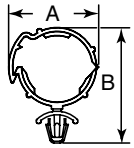


Figure 1

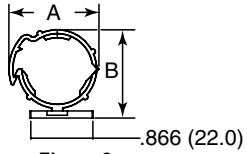


Figure 2

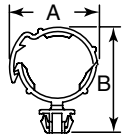


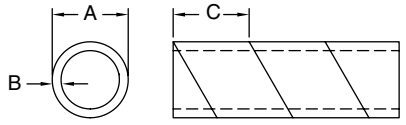
Figure 3

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Adjustable clips to hold both the SHR-20 and SHR-25 slit harness wrap (see above)
- Internal ribs grip the wrap securely

Item No.	Ø Holding	Mounting Method	Figure	A Ref		B Ref		Bulk Pack Qty
				in	mm	in	mm	
SHR-C1	To hold SHR-20 & SHR-25	1	Snaps into a 0.252 in. (6.4 mm) Hole in a 0.031-0.079 in. (0.8-2.0 mm) Panel	1.140	29.0	1.670	42.5	500
SHR-C2	To hold SHR-20 & SHR-25	2	#8 or M4 Screw	1.180	30.0	1.280	32.5	500
SHR-C3	To hold SHR-20 & SHR-25	2	Adhesive	1.180	30.0	1.280	32.5	500
SHR-C4	To hold SHR-20 & SHR-25	3	Snaps into a 0.370 in. (9.5 mm) Square Hole in a 0.031-0.079 in. (0.8-2.0 mm) Panel	1.180	30.0	1.630	40.5	500

HR Series
Spiral Wrap



Specifications:
- Material: See Table
- Color: See Table

Item No.				Bundle Range		A Ref.		B		C Ref.		Roll Length		
UL94 HB Nylon Natural	Polyethylene	LDPE Black	Approval	in	mm	in	mm	in	mm	in	mm	ft	m	Pack Qty
HR2N-1/8	—	—		0.062 - 0.500	1.6 - 12.7	0.125	3.2	0.020	0.5	0.170	4.3	100	30.48	1
HR3N-3/16	—	—		0.125 - 1.000	3.2 - 25.4	0.187	4.8	0.020	0.5	0.250	6.4	100	30.48	1
HR4N-1/4	—	—		0.187 - 1.500	4.8 - 38.7	0.250	6.4	0.025	0.6	0.300	7.6	100	30.48	1
HR6N-3/8	—	—		0.312 - 2.000	7.9 - 50.8	0.375	9.5	0.035	0.9	0.380	9.5	100	30.48	1
HR8N-1/2	—	—		0.750 - 3.000	19.1 - 76.2	0.500	12.7	0.040	1.0	0.500	12.7	100	30.48	1
—	HR2P-1/8	—		0.062 - 0.375	1.6 - 9.5	0.125	3.2	0.020	0.5	0.170	4.3	100	30.48	1
—	HR3P-3/16	—		0.125 - 1.000	3.2 - 25.4	0.187	4.8	0.030	0.8	0.250	6.4	100	30.48	1
—	HR4P-1/4	—		0.187 - 1.000	4.8 - 25.4	0.250	6.4	0.050	1.3	0.300	7.6	100	30.48	1
—	HR6P-3/8	—		0.312 - 2.000	7.9 - 50.8	0.375	9.5	0.050	1.3	0.380	9.5	100	30.48	1
—	HR8P-1/2	—		0.750 - 3.000	19.1 - 76.2	0.500	12.7	0.060	1.5	0.500	12.7	100	30.48	1
—	—	HR4U-1/4		0.187 - 0.750	4.8 - 19.1	0.250	6.4	0.050	1.3	0.300	7.6	100	30.48	1
—	—	HR6U-3/8		0.312 - 2.000	7.9 - 50.8	0.375	9.5	0.050	1.3	0.380	9.5	100	30.48	1
—	—	HR8U-1/2		0.750 - 3.500	19.1 - 88.9	0.500	12.7	0.060	1.5	0.500	12.7	100	30.48	1

Polyester Expandable Braided Sleeving

NEW

Specifications:
- Material: Polyester
- Flammability: VW-1
- Color: Black

Features:
- The open weave construction allows for easy installation reducing assembly cost
- Cut and abrasion resistant with high thermal properties
- Used on wire harnessing applications where durability and low cost are essential
- Cuts cleanly with a hot knife

Item No.	Nominal Size		Expansion Range				Roll Length		Pack Qty
	in	mm	Min (in)	Max (in)	Min (mm)	Max (mm)	ft	m	
900303	1/8	3	0.039	0.236	1	6	200	60.9	1
900304	1/4	6	0.118	0.354	3	9	200	60.9	1
900305	5/16	8	0.197	0.630	5	16	100	30.5	1
900306	3/8	10	0.276	0.748	7	19	100	30.5	1
900307	1/2	12	0.315	0.945	8	24	100	30.5	1
900308	5/8	15	0.394	1.063	10	27	100	30.5	1
900309	3/4	20	0.551	1.181	14	30	50	15.2	1
900310	1	25	0.709	1.378	18	35	50	15.2	1
900311	1-1/4	30	0.787	1.969	20	50	50	15.2	1
900312	1-1/2	40	1.181	2.362	30	60	50	15.2	1
900313	1-3/4	45	1.378	2.953	35	75	50	15.2	1
900314	2	50	1.575	3.150	40	80	50	15.2	1
900315	2-1/2	64	1.772	4.134	45	105	50	15.2	1
900302	3	76	2.520	3.150	64	80	50	15.2	1

Nylon Expandable Sleeving

NEW

Specifications:
- Material: Nylon 6/6 Monofilament
- Flammability: UL94 V-2
- Color: Black

Features:
- Offers excellent abrasion resistance while maintaining a high degree of flexibility and durability
- Provides a smotth and slick surface that resists snags when dragged over a rough surface
- Cuts cleanly with a hot knife

Item No.	Nominal Flat Width		Expanded Range				Roll Length		Pack Qty
	in	mm	Min (in)	Max (in)	Min (mm)	Max (mm)	ft	m	
900426	1/8	3	0.039	0.236	1	6	200	60.9	1
900427	1/4	6	0.118	0.354	3	9	200	60.9	1
900428	5/16	8	0.197	0.630	5	16	100	30.5	1
900429	3/8	10	0.276	0.748	7	19	100	30.5	1
900430	1/2	12	0.315	0.945	8	24	100	30.5	1
900431	5/8	16	0.394	1.063	10	27	100	30.5	1
900432	3/4	19	0.551	1.181	14	30	50	15.2	1
900433	1	25	0.709	1.378	18	35	50	15.2	1
900434	1-1/4	32	0.787	1.969	20	50	50	15.2	1
900435	1-1/2	38	1.181	2.362	30	60	50	15.2	1
900436	1-3/4	45	1.378	2.953	35	75	50	15.2	1
900483	2	50	1.575	3.150	40	80	50	15.2	1
900484	2-1/2	64	1.772	4.134	45	105	50	15.2	1
900485	3	76	2.520	4.724	64	120	50	15.2	1

BRAIDED SLEEVING

PPS UL94 V-0 Expandable Sleeve

NEW

Specifications:
- Material: Polyphenylene Sulfide
- Flammability: UL94 V-0
- Color: Black

Features:
- Used on flame retadant and high temperature cable assemblies and wire harness appliocations
- Lightweight sleeve that has chemical resistance, low wear, dimensional stability, and low moisture stability
- Cuts cleanly with a hot knife

Item No.	Nominal Flat Width		Expanded Range				Roll Length		Pack Qty
	in	mm	Min (in)	Max (in)	Min (mm)	Max (mm)	ft	m	
900437	1/8	3	0.039	0.236	1	6	200	60.9	1
900438	1/4	6	0.118	0.354	3	9	200	60.9	1
900439	5/16	8	0.197	0.630	5	16	100	30.5	1
900440	3/8	10	0.276	0.748	7	19	100	30.5	1
900441	1/2	12	0.315	0.945	8	24	100	30.5	1
900442	5/8	16	0.394	1.063	10	27	100	30.5	1
900443	3/4	19	0.551	1.181	14	30	50	15.2	1
900444	1	25	0.709	1.378	18	35	50	15.2	1
900445	1-1/4	32	0.787	1.969	20	50	50	15.2	1
900446	1-1/2	38	1.181	2.362	30	60	50	15.2	1
900479	1-3/4	45	1.378	2.953	35	75	50	15.2	1
900449	2	50	1.575	3.150	40	80	50	15.2	1
900450	2-1/2	64	1.772	4.134	45	105	50	15.2	1
900451	3	76	2.520	4.724	64	120	50	15.2	1

PET Anti-Abrasion Sleeve

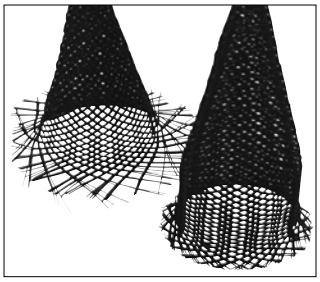
NEW

Specifications:
- Material: Polyethylene Terephthalate
- Flammability: VW-1
- Color: Black

Features:
- Has 300% more abrasion resistance than the standard polyester expandable sleeve
- Exceptional mechanical properties
- Cuts cleanly with a hot knife

Item No.	Nominal Flat Width		Expanded Range				Roll Length		Pack Qty
	in	mm	Min (in)	Max (in)	Min (mm)	Max (mm)	ft	m	
900461	1/8	3	0.039	0.236	1	6	200	60.9	1
900462	1/4	6	0.118	0.354	3	9	200	60.9	1
900463	5/16	8	0.197	0.630	5	16	100	30.5	1
900464	3/8	10	0.276	0.748	7	19	100	30.5	1
900465	1/2	12	0.315	0.945	8	24	100	30.5	1
900466	5/8	16	0.394	1.063	10	27	100	30.5	1
900467	3/4	19	0.551	1.181	14	30	50	15.2	1
900468	1	25	0.709	1.378	18	35	50	15.2	1
900469	1-1/4	32	0.787	1.969	20	50	50	15.2	1
900470	1-1/2	38	1.181	2.362	30	60	50	15.2	1
900471	1-3/4	45	1.378	2.953	35	75	50	15.2	1
900472	2	50	1.575	3.150	40	80	50	15.2	1
900473	2-1/2	64	1.772	4.134	45	105	50	15.2	1
900474	3	76	2.520	4.724	64	120	50	15.2	1

Scissor Cut Sleeve



Specifications:
- Material: Polyester
- Flammability: VW-1
- Color: Black

Features:
- Can be cut with scissors and maintain a frayless end
- Perfect when used in the field where a hot knife is not available
- Excellent abrasion resistance

Item No.	Approval	Nominal Size		Expansion Range				Roll Length		Pack Qty
		in	mm	Min in	Min mm	Max in	Max mm	ft	m	
900289		1/8	3	0.039	1	0.197	5	200	60.98	1
900290		1/4	6	0.118	3	0.315	8	200	60.98	1
900291		5/16	8	0.197	5	0.394	10	100	30.49	1
900292		3/8	10	0.276	7	0.472	12	100	30.49	1
900293		1/2	12	0.315	8	0.551	14	100	30.49	1
900294		5/8	15	0.394	10	0.709	18	100	30.49	1
900295		3/4	20	0.551	14	0.906	23	50	15.24	1
900296		1	25	0.709	18	1.102	28	50	15.24	1
900297		1-1/4	30	0.787	20	1.378	35	50	15.24	1
900298		1-1/2	40	1.181	30	1.654	42	50	15.24	1
900299		1-3/4	45	1.378	35	1.890	48	50	15.24	1
900300		2	50	1.575	40	2.126	54	50	15.24	1
900301		2-1/2	64	1.772	45	2.756	70	50	15.24	1
900302		3	76	2.520	64	3.150	80	50	15.24	1

Thermal Protection Sleeve

Specifications:
- Material: Nomex™ Fiber
- Flammabilitly: UL94 V-0
- Color: Natural

Features:
- Provides thermal protection and high abrasion resistance
- Soft feel and smooth appearance makes installation easy
- Cuts easily with standard scissors
- Operating Range: -320°F to 662°F (-196°C to 350°C)

Item No.	Nominal Size		Expansion Range		Roll Length		Pack Qty
	in	mm	in	mm	ft	m	
900365	0.118	3	0.039	0.157	100	30.48	1
900366	0.236	6	0.196	0.314	100	30.48	1
900367	0.314	8	0.236	0.393	100	30.48	1
900368	0.393	10	0.275	0.511	100	30.48	1
900369	0.472	12	0.314	0.629	100	30.48	1
900370	0.591	15	0.393	0.787	100	30.48	1
900371	0.787	20	0.551	1.023	100	30.48	1
900372	0.984	25	0.708	1.299	100	30.48	1
900373	1.181	30	0.787	1.535	100	30.48	1
900374	1.574	40	1.181	2.047	100	30.48	1
900375	1.968	50	1.574	2.559	100	30.48	1

Self Closing Wrap

NEW

Specifications:
- Material: Polyester Monofilament
- Flammability: DIN5510, VW-1
- Color: Black

Features:
- The self closing 25% overlap design allows easy access to thebundle inside
- Can be assembled over components after they have already been installed
- Excellent flame resistance, heat dispersion, and durable protection
- Installation tool to zip cables in avaialble in most sizes
- Cuts cleanly with a hot knife

Item No.	ID		Ø Max Bundle		Installation Tool Part Number	Roll Length		Pack Qty
	in	mm	in	mm		ft	m	
900412	0.196	5	0.236	6	**900475**	100	30.5	1
900413	0.314	8	0.354	9	**900475**	100	30.5	1
900414	0.511	13	0.551	14	**900476**	100	30.5	1
900415	0.748	19	0.787	20	**900478**	100	30.5	1
900416	0.984	25	1.023	26	**900478**	100	30.5	1
900417	1.496	38	1.574	40	—	100	30.5	1

Self Closing Braided Wrap

NEW

Specifications:
- Material: Polyester
- Flammability: UL94 V-2
- Color: Black

Features:
- The self closing 25% overlap design allows easy access to the bundle inside
- Can be assembled over components after they have already been installed
- Lightweight and abrasion resistant
- Installation tool to zip cables in available in most sizes
- Cuts cleanly with a hot knife

Item No.	ID		Ø Max Bundle		Installation Tool Part Number	Roll Length		Pack Qty
	in	mm	in	mm		ft	m	
900452	0.236	6	0.275	7	**900475**	100	30.5	1
900453	0.354	9	0.393	10	**900476**	100	30.5	1
900454	0.511	13	0.551	14	**900476**	100	30.5	1
900455	0.629	16	0.669	17	**900477**	100	30.5	1
900456	0.748	19	0.787	20	**900478**	100	30.5	1
900457	0.984	25	1.023	26	**900478**	100	30.5	1
900458	1.259	32	1.299	33	—	50	15.2	1
900459	1.496	38	1.574	40	—	50	15.2	1
900460	1.968	50	2.047	52	—	50	15.2	1

HOSE OR CABLE WRAP SLEEVES

Hook and Loop Braided Cable or Hose Wrap

Specifications:
- Material: Polyester and Nylon
- Flammabiity: VW-1
- Color: Black

Features:
- Easily opened and closed
- Can be easily installed over connectors, fittings, splices, cables and hoses
- Breakouts can be made by bringing cables out through hook and loop
- Open weave design easily conforms to many irregular shapes

Item No.	Nominal Size		Max Bundle Dia.		Hook& Loop Width		Roll Length		Pack Qty
	in	mm	in	mm	in	mm	ft	m	
900360	0.512	13	0.315	8	0.394	10	164	50	1
900361	0.748	19	0.472	12	0.394	10	164	50	1
900362	1.260	32	0.787	20	0.787	20	164	50	1
900363	2.008	51	1.260	32	0.787	20	164	50	1
900364	2.520	64	1.575	40	0.787	20	164	50	1

Quick Assemble Hook and Loop Cable or Hose Sleeve

NEW

Specifications:
- Material: Polyester with Hook and Loop
- Flammabiity: VW-1
- Color: Black

Features:
- Non-expanbable sleeve is easily opened and closed
- Lighweight, high strength, excellent flame and abrasion resistance
- Can be easily installed over connectors, fittings, splices, cables and hoses
- Breakouts can be made by bringing cables out through hook and loop

Item No.	ID		Spread Width		Roll Length		Pack Qty
	in	mm	in	mm	ft	m	
900328	0.787	20	3.149	80	82	25	1
900329	0.984	25	3.740	95	82	25	1
900330	1.181	30	4.527	115	82	25	1
900331	1.377	35	5.118	130	82	25	1
900332	1.574	40	5.748	146	82	25	1
900333	1.771	45	6.377	162	82	25	1
900334	1.968	50	7.007	178	82	25	1

Hose & Cable Protection Sleeve

NEW

MINE SAFETY APPROVED

Specifications:
- Material: Polyester
- Color: Black

Features:
- Most economical MSHA approved sleeve protection option
- Lightweight but high strength and abrasion resistant
- Protects people, environmentand machinery against hydraulic hose ruptures

Item No.	Flattened Width		Round ID		Roll Length		Pack Qty
	in	mm	in	mm	ft	m	
900359	0.787	20	0.472	12	100	30.5	1
900344	0.984	25	0.591	15	100	30.5	1
900345	1.181	30	0.748	19	100	30.5	1
900346	1.378	35	0.866	22	100	30.5	1
900347	1.575	40	0.984	25	100	30.5	1
900348	1.772	45	1.102	28	100	30.5	1
900349	1.969	50	1.220	31	100	30.5	1
900350	2.362	60	1.496	38	100	30.5	1
900351	2.756	70	1.732	44	100	30.5	1
900352	3.150	80	1.969	50	100	30.5	1
900353	3.543	90	2.244	57	100	30.5	1
900354	3.937	100	2.362	60	100	30.5	1
900355	4.528	115	2.756	70	50	15.2	1
900356	5.709	145	3.543	90	50	15.2	1
900357	6.929	176	4.331	110	50	15.2	1
900358	7.874	200	4.921	125	50	15.2	1

HOSE OR CABLE WRAP SLEEVES

Heatshrink Braided Sleeve

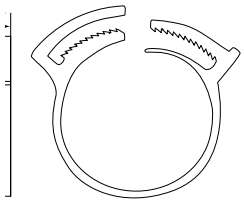
NEW

Specifications:
- Material: Polyester and Polyelefin
- Color: Black
- Shrink Ratio: 2:1
- Minimum Shrink Temperature: 176° F (80° C)
- Minimum Full Recovery Temperature: 248° F (120° C)

Features:
- Braided sleeving will shrink when exposed to a heat source
- Unique woven construction is extremely flexible and easy to install on hoses with irregular shapes
- Provides excellent abrasion resistance and noise reduction

Item No.	Nominal Size		As Supplied ID		After Recovery ID		Roll Length		Pack Qty
	in	mm	in	mm	in	mm	ft	m	
900317	3/8	10	0.393	10	0.196	5.0	100	30.5	1
900318	1/2	12	0.472	12	0.236	6.0	100	30.5	1
900319	3/4	20	0.787	20	0.393	10.0	100	30.5	1
900320	1	25	0.984	25	0.492	12.5	100	30.5	1
900321	1-1/4	30	1.181	30	0.59	15.0	100	30.5	1
900322	1-3/8	34	1.338	34	0.669	17.0	100	30.5	1
900323	1-1/2	40	1.574	40	0.787	20.0	100	30.5	1
900324	2	50	1.968	50	0.984	25.0	100	30.5	1
900325	2-3/8	60	2.362	60	1.181	30.0	100	30.5	1
900326	2-3/4	70	2.755	70	1.377	35.0	100	30.5	1
900327	3-1/8	80	3.149	80	1.574	40.0	100	30.5	1

THC & SHC Series
Quick Assemble Hose Clamps



Specifications:
- Material: THC Series - UL94V-2 Nylon 6/6
  SHC Series - UL94 HB Nylon 6/6
- Color: THC Series: Black
  SHC Series: White

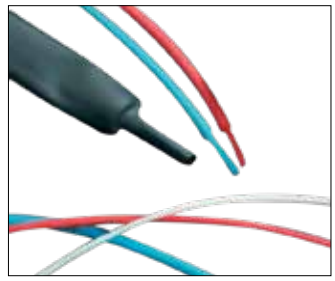
Features:
- Quick and easy assembly or removal
- Adjustable locking range to fit various diameters
- Excellent for securing the ends of textile covers to the hose assembly

Item No.	Bundle Range		W	
	In	mm	In	mm
THC1A	0.260 - 0.315	6.6 - 8.0	0.197	5.0
THC2A	0.315 - 0.362	8.0 - 9.2	0.197	5.0
SHC-23	0.359 - 0.390	9.1 - 9.9	0.220	5.6
THC3A	0.362 - 0.413	9.2 - 10.5	0.197	5.0
SHC-26	0.390 - 0.468	9.9 - 11.9	0.220	5.6
THC4A	0.413 - 0.472	10.5 - 12.0	0.236	6.0
SHC-30	0.468 - 0.531	11.9 - 13.5	0.220	5.6
THC6A	0.504 - 0.591	12.8 - 15.0	0.276	7.0
SHC-32	0.531 - 0.593	13.5 - 15.1	0.220	5.6
THC7A	0.591 - 0.677	15.0 - 17.2	0.276	7.0
SHC-38	0.593 - 0.674	15.1 - 16.7	0.220	5.6
THC8A	0.670 - 0.728	17.0 - 18.5	0.276	7.0
SHC-44	0.687 - 0.812	17.5 - 20.6	0.220	5.6
THC9A	0.717 - 0.807	18.2 - 20.5	0.276	7.0
SHC-50	0.750 - 0.875	19.1 - 22.2	0.220	5.6
THC10A	0.807 - 0.906	20.5 - 23.0	0.276	7.0
THC11A	0.866 - 0.984	22.0 - 25.0	0.276	7.0
SHC-56	0.875 - 1.000	22.2 - 25.4	0.220	5.6
SHC-62	0.953 - 1.093	24.2 - 27.8	0.310	7.9
THC12A	0.984 - 1.102	25.0 - 28.0	0.276	7.0

Item No.	Bundle Range		W	
	In	mm	In	mm
THC13A	1.063 - 1.181	27.0 - 30.0	0.295	7.5
SHC-68	1.093 - 1.187	26.2 - 30.2	0.310	7.9
THC14A	1.161 - 1.280	29.5 - 32.5	0.295	7.5
THC15A	1.280 - 1.398	32.5 - 35.5	0.315	8.00
SHC-80	1.250 - 1.437	31.8 - 36.5	0.310	7.9
THC16A	1.378 - 1.516	35.0 - 38.5	0.315	8.0
SHC-92	1.406 - 1.625	35.7 - 41.3	0.360	9.1
THC17A	1.496 - 1.634	38.0 - 41.5	0.315	8.0
THC18A	1.614 - 1.752	41.0 - 44.5	0.315	8.0
THC19A	1.732 - 1.870	44.0 - 47.5	0.315	8.0
THC20A	1.850 - 1.988	47.0 - 50.5	0.315	8.0
THC21A	1.969 - 2.106	50.0 - 53.5	0.315	8.0
THC22A	2.087 - 2.244	53.0 - 57.0	0.315	8.0
SHC-134	2.125 - 2.375	54.0 - 60.3	0.400	10.2
THC23A	2.224 - 2.382	56.5 - 60.5	0.315	8.0
THC24A	2.362 - 2.559	60.0 - 65.0	0.315	8.0
THC25A	2.598 - 2.756	66.0 - 70.0	0.315	8.0
THC26A	2.756 - 2.953	70.0 - 75.0	0.315	8.0
THC27A	2.992 - 3.150	76.0 - 80.0	0.315	8.0
THC28A	3.150 - 3.346	80.0 - 85.0	0.315	8.0

HEAT SHRINK TUBING

HST Series
2:1 Heat Shrink Tubing

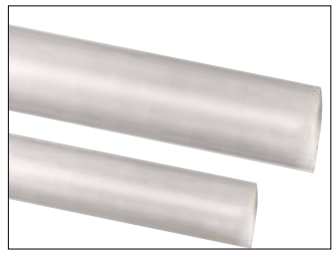


Specifications:
- Material: Crosslinked Polyolefin
- Color: See Table
- Operating Temperature: -67°F to 257°F (-55°C to 125°C)
- Minimum Shrink Temperature: 158°F (70°C)
- Minimum Full Recovery Temperature: 212°F (100°C)
- Shrink Ratio: 2:1

Features:
- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- Widely used in the communication, electronics and automotive fields
- Excellent electrical and physical properties
- Provided in standard roll lengths
- Flame retardant
- Highly flexible
- Comes in a variety of colors to color code wires, cables, terminals and components
- Provided in mini or standard roll lengths

Item No.					As Supplied ID Min		After Recovery ID Max		After Recovery Wall Thickness Min		Roll Length		Pack Qty
Black	Red	Blue	White	Size (in)	in	mm	in	mm	in	mm	ft	m	
495686	495709	495755	495824	3/64	0.047	1.20	0.024	0.60	0.013	0.33	492	150	1
495687	—	495756	—	1/16	0.063	1.60	0.031	0.80	0.014	0.36	492	150	1
495688	—	495757	495826	3/32	0.094	2.40	0.047	1.20	0.017	0.44	492	150	1
495689	495712	495758	495827	1/8	0.126	3.20	0.063	1.60	0.017	0.44	492	150	1
495690	495713	495759	495828	3/16	0.189	4.80	0.094	2.40	0.020	0.51	246	75	1
495691	495714	495760	495829	1/4	0.252	6.40	0.126	3.20	0.022	0.56	246	75	1
495692	495715	495761	495830	3/8	0.374	9.50	0.189	4.80	0.022	0.56	246	75	1
495693	495716	495762	495831	1/2	0.500	12.70	0.252	6.40	0.026	0.65	164	50	1
495694	495717	—	495832	5/8	0.630	16.00	0.315	8.00	0.027	0.69	164	50	1
495695	495718	495764	495833	3/4	0.748	19.00	0.374	9.50	0.031	0.80	98.4	30	1
HST022A	—	—	—	15/16	0.913	23.20	0.433	11.00	0.030	0.80	164	50	1
495696	495719	495765	495834	1	1.000	25.40	0.500	12.70	0.035	0.90	98.4	30	1
495697	495720	495766	495835	1-1/4	1.260	32.00	0.630	16.00	0.040	1.02	98.4	30	1
495698	495721	495767	—	1-1/2	1.500	38.10	0.748	19.00	0.040	1.02	98.4	30	1
HST028A	—	—	—	2-3/32	2.087	53.00	0.984	25.00	0.039	1.00	164	50	1

HST CLEAR Series
2:1 Clear Heat Shrink Tubing

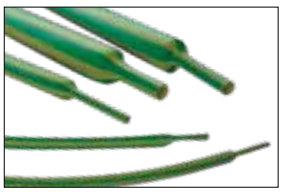


Specifications:
- Material: Crosslinked Polyolefin
- Color: Clear (100% Transparent)
- Operating Temperature: -67° F to 221° F (-55° C to 105° C)
- Minimum Shrink Temperature: 158°F (70°C)
- Minimum Full Recovery Temperature: 203°F (95°C)
- Shrink Ratio: 2:1

Features:
- RoHS Compliant
- Used in the appliance, automotive and on consumer goods applications
- Commercial grade for general applications where flame-retardancy is not required
- Excellent electrical and physical properties
- Provided in standard roll lengths

Item No.	Size (in)	As Supplied ID Min		After Recovery ID Max		After Recovery Wall Thickness Min		Roll Length		Pack Qty
		in	mm	in	mm	in	mm	ft	m	
495883	3/64	0.047	1.20	0.024	0.60	0.013	0.33	492	150	1
495884	1/16	0.063	1.60	0.031	0.80	0.014	0.36	492	150	1
495885	3/32	0.094	2.40	0.047	1.20	0.017	0.44	492	150	1
495886	1/8	0.126	3.20	0.063	1.60	0.017	0.44	492	150	1
495887	3/16	0.189	4.80	0.094	2.40	0.022	0.56	246	75	1
495888	1/4	0.252	6.40	0.126	3.20	0.022	0.56	246	75	1
495889	3/8	0.374	9.50	0.189	4.80	0.022	0.56	246	75	1
495890	1/2	0.500	12.7	0.252	6.40	0.026	0.65	164	50	1
495891	5/8	0.630	16.0	0.315	8.00	0.027	0.69	164	50	1
495892	3/4	0.748	19.0	0.374	9.50	0.031	0.80	98.4	30	1
495893	1	1.000	25.4	0.500	12.7	0.035	0.90	98.4	30	1
495894	1-1/4	1.260	32.0	0.630	16.0	0.039	1.00	98.4	30	1
495895	1-1/2	1.500	38.1	0.748	19.0	0.039	1.00	98.4	30	1

HST YG Series
2:1 Yellow & Green Striped Heat Shrink Tubing

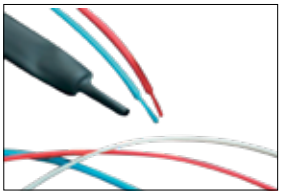


Specifications:
- Material: Crosslinked Polyolefin
- Color: Yellow and Green Striped
- Operating Temperature: -67° F to 275° F (-55° C to 135° C)
- Minimum Shrink Temperature: 158° F (70° C)
- Minimum Full Recovery Temperature: 212° F (100° C)

Features:
- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- Outstanding physical, chemical and electrical properties
- Easy to install and makes identifying ground conductors easier
- Highly flame retardant and UV resistant

Item No.	Size (in)	As Supplied ID Min in	As Supplied ID Min mm	After Recovery ID Max in	After Recovery ID Max mm	After Recovery Wall Thickness Min in	After Recovery Wall Thickness Min mm	Roll Length ft	Roll Length m	Pack Qty
495896	1/16	0.063	1.60	0.031	0.80	0.020	0.51	492	150	1
495898	1/8	0.126	3.20	0.063	1.60	0.022	0.55	492	150	1
495900	1/4	0.252	6.40	0.126	3.20	0.026	0.65	246	75	1
495901	3/8	0.374	9.50	0.189	4.80	0.030	0.75	246	75	1
495902	1/2	0.500	12.7	0.252	6.40	0.030	0.75	164	50	1
495903	3/4	0.748	19.0	0.374	9.50	0.033	0.85	98.4	30	1
495904	1	1.000	25.4	0.500	12.7	0.039	1.00	98.4	30	1
495905	1-1/2	1.500	38.1	0.748	19.0	0.045	1.15	98.4	30	1

HST 3:1 Series
3:1 Heat Shrink Tubing



Specifications:
- Material: Crosslinked Polyolefin
- Color: See Table
- Operating Temperature: -67° F to 257° F (-55° C to 125° C)
- Minimum Shrink Temperature: 158° F (70° C)
- Minimum Full Recovery Temperature: 212° F (100° C)

Features:
- UL Approval: 125°C VW-1 600V
- File No. E204071
- RoHS Compliant
- Widely used for electrical insulation
- Flame retardant and highly flexible
- Protects in line components, disconnect terminals and splices
- Variety of colors to code wires, cables, terminals and components

Item No. Black	Item No. Red	Item No. Blue	Item No. White	Size in	As Supplied ID Min in	As Supplied ID Min mm	After Recovery ID Max in	After Recovery ID Max mm	Wall Thickness Min in	Wall Thickness Min mm	Roll Length ft	Roll Length m	Pack Qty1
495906	—	—	—	1/16	0.059	1.50	0.020	0.50	0.018	0.45	492	150	1
495907	**495916**	**495934**	**495961**	1/8	0.118	3.00	0.039	1.00	0.022	0.55	492	150	1
495908	**495917**	**495935**	—	3/16	0.177	4.50	0.059	1.50	0.024	0.60	246	75	1
495909	**495918**	**495936**	**495963**	1/4	0.236	6.00	0.079	2.00	0.026	0.65	246	75	1
495910	**495919**	**495937**	**495964**	3/8	0.354	9.00	0.118	3.00	0.030	0.75	246	75	1
495911	**495920**	**495938**	**495965**	1/2	0.472	12.0	0.157	4.00	0.031	0.80	164	50	1
495912	—	**495939**	**495966**	3/4	0.709	18.0	0.236	6.00	0.035	0.90	98.4	30	1
495913	**495922**	**495940**	—	1	0.945	24.0	0.315	8.00	0.043	1.10	98.4	30	1
495914	**495923**	**495941**	—	1-1/2	1.535	39.0	0.512	13.0	0.049	1.25	98.4	30	1

HST ADHESIVE Series
3:1 Adhesive Lined Heat Shrink Tubing

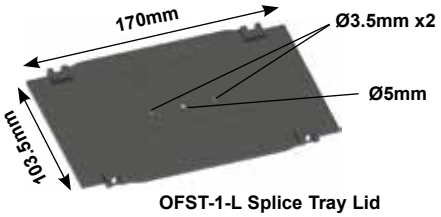
Specifications:
- Material: Crosslinked Adhesive Lined Polyolefin
- Color: See Table
- Operating Temperature: -67° F to 257° F (-55° C to 125° C)
- Minimum Shrink Temperature: 176° F (80° C)
- Minimum Full Recovery Temperature: 230° F (110° C)
- Shrink Ratio: 3:1

Features:
- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- UV Resistant and flame retardant (with the exception of clear)
- Provides insulation and sealing on applications like wire splices and harnesses
- Comes in a variety of colors to code wires, cables, terminals and components
- Provided in standard roll lengths and pre-cut length in packs

Item No. Black	Item No. Clear	Item No. Red	Item No. Blue	Item No. White	Size in	As Supplied ID Min in	As Supplied ID Min mm	After Recovery ID Max in	After Recovery ID Max mm	Wall Thickness Min in	Wall Thickness Min mm	Roll Length ft	Roll Length m	Pack Qty
495987	**496011**	**496003**	—	**496083**	1/8	0.118	3.00	0.039	1.00	0.039	1.00	492	150	1
495988	—	**496004**	**496036**	**496084**	3/16	0.189	4.80	0.059	1.50	0.039	1.00	246	75	1
495989	**496013**	**496005**	**496037**	**496085**	1/4	0.236	6.00	0.079	2.00	0.039	1.00	246	75	1
495990	**496014**	**496006**	**496038**	**496086**	3/8	0.354	9.00	0.118	3.00	0.055	1.40	164	50	1
495991	**496015**	**496007**	**496039**	**496087**	1/2	0.472	12.00	0.157	4.00	0.063	1.60	98.4	30	1
495992	**496016**	**496008**	—	**496088**	3/4	0.748	19.00	0.236	6.00	0.085	2.15	98.4	30	1
495993	**496017**	**496009**	—	**496089**	1	0.945	24.00	0.315	8.00	0.094	2.40	98.4	30	1
495994	**496018**	**496010**	—	—	1-1/2	1.575	40.00	0.512	13.0	0.094	2.40	98.4	30	1

FIBER SPLICE ACCESSORIES

OFST Series
Fiber Splice Tray System



OFST-1-L Splice Tray Lid

OFST-1-P
Splice Tray with Basic Storage Facility

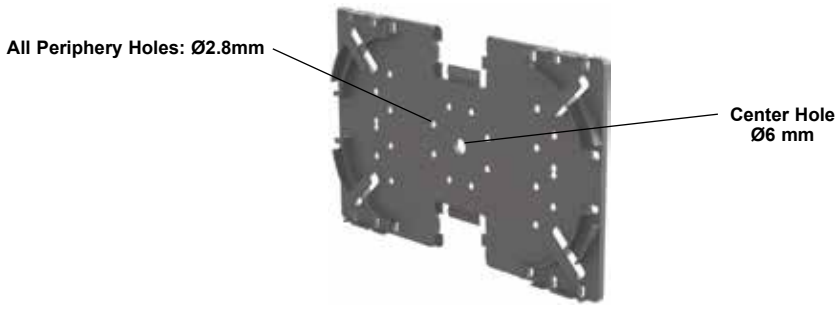
OFST-1-M
Splice Tray with Radius Control and Fiber Storage Elements

Specifications:
- Color: See Table

Features:
- Lid, trays, and hinges are sold separately or in a kit: OFST-A-P-1
- Stackable to any number of trays
- Inter-tray fiber routing possible through slots along one of the long sides of the tray
- Color coded hinges indicate side of tray to open from. Part numbers are OFSTH-1-RED and OFSTH-1-GRN.
- Can be used with OFSH splice holders, OFSP splice protectors and OFBLT bend limiting tubing
- Three mounting holes go through the lid and trays

Item No.	Color	Description	Bulk Pack Qty
OFST-1-L	Black	Splice Tray Lid	10
OFST-1-M	Black	Splice Tray Managed with Radius Control & Dark Fiber Storage	10
OFST-1-P	Black	Splice Tray Plain with Basic Storage Facility	10
OFST-A-P-1	Black	1 x OFST-1-L, 1 x OFST-1-P, 2 x OFSTH-1-RED, 2 x OFSTH-1-GRN	10
OFSTH-1-GRN	Green	OF Splice Tray Hinge	20
OFSTH-1-RED	Red	OF Splice Tray Hinge	20

EFA04-25-001 Series
Splice Tray



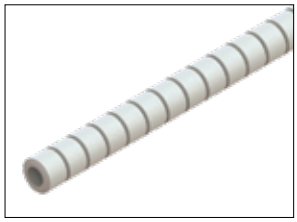
Specifications:
- Material: UL94 V-0 Nylon 6
- Color: Black

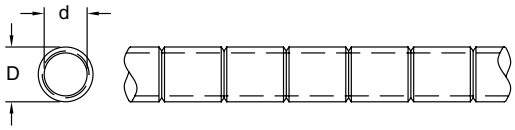
Features:
- Molded-in features maintain bend radius at 30mm
- Accepts Fiber Clips EFA04-61, 63 and 64-001
- Accepts 16-way Fiber Clip EFA04-06 and 08-001 broken into a 4-way segment for holding splicing components

Item No.	L x W		Thickness		Bulk Pack Qty
	in	mm	in	mm	
EFA04-25-001	5.197 x 3.228	132.0 x 82.0	0.260	6.6	50

FIBER BEND LIMITING TUBING

OFBLT Series
Optical Fiber Bend Limiting Tubing





Specifications:
- Material: See Table
- Color: See Table

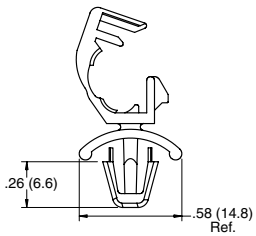
Features:
- Optical Fiber Bend-Limiting Tubing offers the ultimate protection to fibers, eliminating problems such as crushing, kinking, and micro-bending, while supplying a self-managing solution for routing of fiber
- Provides superior crush protection against micro fiber bends over conventional corrugated tubing
- Limits the bend in a fiber by controlling radius to a minimum of 30mm
- Has a smooth inner bore for ease of use and elimination of micro-bending
- Suitable for blown fiber applications over short distance and for curbside FTTH/FTTB applications

Item No.			D		d		Bulk Pack Qty	Pack Qty
White Polypropylene	Black UL94 V-0 PBT	Style	in	mm	in	mm		
OFBLT-3.1-05-PP	OFBLT-31-05V0	Standard	0.195	4.95	0.122	3.1	100 Meters	1
OFBLT-42-635PP	OFBLT-42-635V0	Standard	0.250	6.35	0.165	4.1	100 Meters	1
OFBLTP-42-635PP	OFBLTP-42-635V0	Pull-Cord	0.250	6.35	0.165	4.1	100 Meters	1

OFBLT-C Series
OFBLT Tubing Clip

Specifications:
- Material: See Table
- Color: Natural

Features:
- Holds the 5mm OFBLT tube (see above) or up to a 4.3mm rod
- Clamp is releasable for repairs

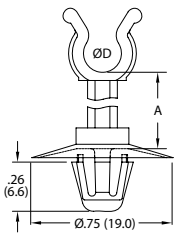


Item No.		Ø Max Bundle		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 V-2 Nylon 6/6	UL94 V-0 Nylon 6/6	in	mm	in	mm	in	mm	
OFBLT-C1-5-01	OFBLT-C1-5-19	0.17	4.3	0.25	6.4	0.031 - 0.078	0.8 - 2.0	1000

TPCE Series
Tube Clip

Specifications:
- Material: See Table
- Color: Natural

Features:
- Holds a 5mm diameter tube or pipe
- Excellent for above board routing requirements
- Cupped base provides stability and covers the entire hole



Item No.		A		Ø D Max Bundle		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 V-2 Nylon 6/6	UL94 V-0 Nylon 6/6	in	mm	in	mm	in	mm	in	mm	
TPCE5-51-4M-01	TPCE5-51-4M-19	0.157	4.0	0.200	5.1	0.256	6.5	0.031 - 0.063	0.8 - 1.6	1000
TPCE5-51-6M-01	TPCE5-51-6M-19	0.236	6.0	0.200	5.1	0.256	6.5	0.031 - 0.063	0.8 - 1.6	1000
TPCE5-51-8M-01	TPCE5-51-8M-19	0.315	8.0	0.200	5.1	0.256	6.5	0.031 - 0.063	0.8 - 1.6	1000
TPCE5-51-10M-01	TPCE5-51-10M-19	0.394	10.0	0.200	5.1	0.256	6.5	0.031 - 0.063	0.8 - 1.6	1000

OFTGSP Series
OFBLT Tubing Saddle

Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:
- Holds the 5mm OFBLT (see above)
- The saddle is placed over the tubing and closed down to engage on the external grooves of the tube
- Secure attachment is completed by pressing the retaining feet through the location holes
- OFTGSP-2 has two sets of mounting prongs requiring two holes

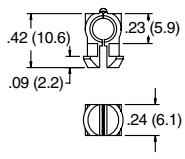


Figure 1

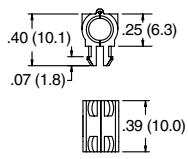
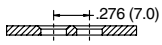


Figure 2

Recommended Mounting Hole



Recommended Mounting Holes

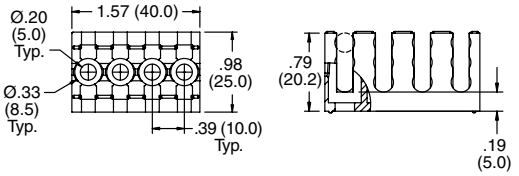
Item No.	Figure	Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
		in	mm	in	mm	
OFTGSP-1-05-19	1	0.250	6.4	0.095	2.4	100
OFTGSP-2-05-19	2	0.197	5.0	0.071	1.8	100

FIBER BEND LIMITING TUBING & SPLICE HOLDERS

OFSMB - OFBLT Series
Slotted Multi Bracket

Specifications:
- Material: UL94 V-0 Glass-Filled Nylon
- Color: Black

Features:
- For use with 5mm OFBLT Tubing
- Mounts with #10 (M5) screws
- Optical Fiber Slotted Multi-Brackets are for use at distribution points where orderly fiber management, protection and strain relief is required
- An additional security feature allows fitting of a cable tie around OFSMBs which prevents removal of any retained tubes
- OFBLT retention: >70N
- Holds a maximum of 12 tubes



Item No.	Bulk Pack Qty
OFSMB-4-05GFBK	10

OFSH-T Series
Splice Holder

Specifications:
- Material: See Table
- Color: Black

Features:
- OFSH-T-6 holds up to 6 x 3mm fiber or components
- OFSH-T-12 holds up to 12 crimp splice protectors
- Splice Holders can be used with OFST Series Splice Trays

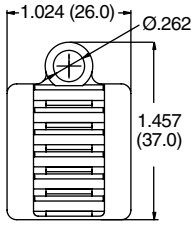


Figure 1

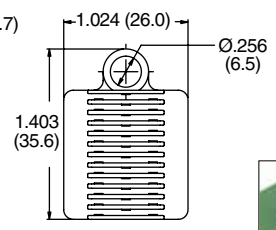
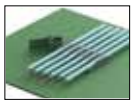


Figure 2



Item No.	Figure	Material	Ø Component in	Ø Component mm	No. of Slots	Bulk Pack Qty
OFSH-T-6-GFBLK	1	Glass-Filled Nylon 6/6	0.118	3.0	6	100
OFSH-T-12-01BLK	2	Nylon 6/6	0.039 - 0.047	1.0 - 1.2	6	100
OFSH-T-12-19BLK	2	Nylon 6/6	0.039 - 0.047	1.0 - 1.2	12	100

OFSH2 Series
Splice Holder

Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:
- Holds up to 24 components/splice protectors
- Flexible wings grip components up to .06 (1.6) in diameter
- Low profile to save space
- Two styles: one for mounting with an adhesive pad and one for mounting with a #4 or M3 screw
- Each slot holds up to two components

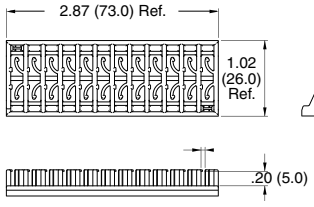


Figure 1

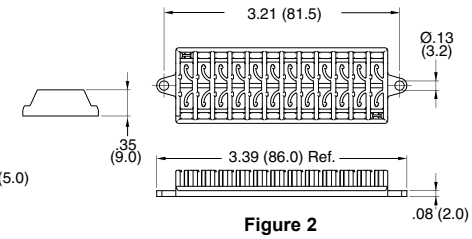
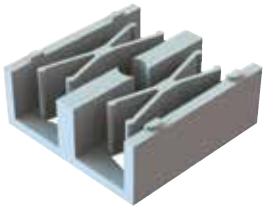


Figure 2

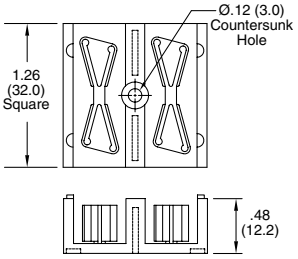
Item No.	Mounting Method	Ø Component In	Ø Component mm	Figure	Bulk Pack Qty
OFSH2-24-1	Adhesive	Up to 0.060	Up to 1.6	1	50
OFSH2-24-2	No Adhesive	Up to 0.060	Up to 1.6	1	50
OFSH2-24-3	#4 or M3 Screws	Up to 0.060	Up to 1.6	2	50

OFSH-4 Series
Splice Holder



Specifications:
- Material: See Table
- Color: Natural

Features:
- Holds 12 2.7mm splices or four 4.2mm splices
- Fastens with either an adhesive pad provided, or with a #4 screw or rivet
- Stackable



Item No. UL94 V-2 Nylon 6/6	Item No. UL94 V-0 Nylon 6/6	Ø Component mm	No. of Positions	Bulk Pack Qty
OFSH-4-1-01LA	OFSH-4-1-19LA	2.7	12	50
OFSH-4-1-01LA	OFSH-4-1-19LA	4.2	4	50

OFEB/OFHB Series
Fiber Holder

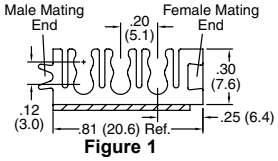


Figure 1

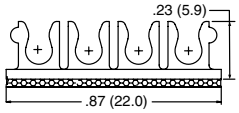


Figure 2

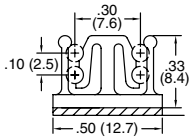


Figure 3

Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:
- Quickly mounted with adhesive base
- OFEB has side brackets that connect with each other to provide for additional cables

Item No.	Figure	Cable Ø in	Cable Ø mm	No. of Slots	No. of Cables	Depth in	Depth mm	Bulk Pack Qty
OFEB-3-19	1	0.118	3.0	3	6	0.300	7.6	1000
OFHB3-4-19A-RT	2	0.118	3.0	4	4	0.375	9.5	1000
OFHB2-4A1-RT-19	3	0.079	2.0	2	4	0.375	9.5	1000

OFB-BH/OFB3P Series
Fiber Holder

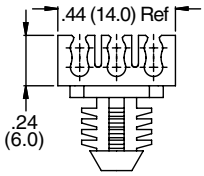


Figure 1

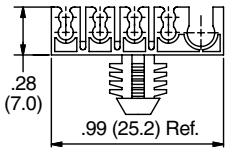


Figure 2

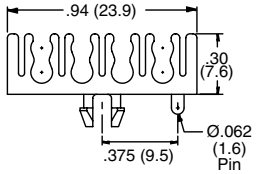


Figure 3

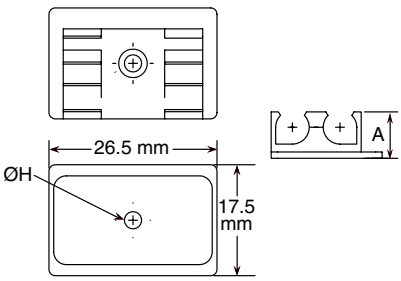
Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:
- Holds multiple cable fibers

Recommended Mounting Holes

Item No.	Figure	Ø Hole in	Ø Hole mm	Panel Thickness in	Panel Thickness mm	Ø Cable in	Ø Cable mm	No. of Slots	No. of Cables	Depth in	Depth mm	Bulk Pack Qty
OFB-BH-6-19	1	0.312	7.9	0.250	6.4	0.079	2.0	3	6	0.197	5.0	1000
OFB-BH-9-19	2	0.312	7.9	0.250	6.4	8 x 0.086, 1 x 0.158	8 x 2.2, 1 x 4.0	5	9	0.236	6.0	1000
OFB3P-4-19	3	0.187	4.7	0.064	1.6	0.118	3.0	4	8	0.200	5.1	1000

EFA04-6X Series
Fiber Clip

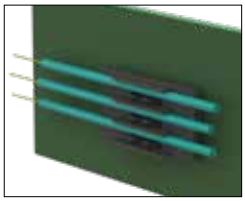


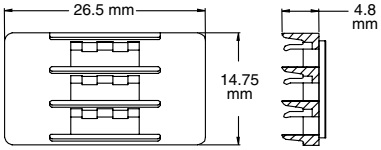
Specifications:
- Material: UL94 V-0 Nylon 6
- Color: See Table

Features:
- Holds two components parallel
- Available to hold three different diameters; 4.5mm, 5.5mm, 6mm
- Designed for use in the Splice Tray EFA04-25-001
- Can be mounted by screw, rivet, or with adhesive pad
- EFA04-61-001 has anti-rotation pins to securely mount with screw or rivet

Item No. Clip Only	Item No. Clip & Adhesive Pad	Color	Ø Cable in	Ø Cable mm	No. of Slots	A in	A mm	Ø H in	Ø H mm	Recommended Mounting Screw	Bulk Pack Qty
EFA04-61-001	EFA04-61-ASS	Red	0.236	6.0	2	0.315	8.0	0.126	3.2	#4, #5 or M3	100
EFA04-63-001	EFA04-63-ASS	Green	0.216	5.5	2	0.289	7.33	0.106	2.7	#3 or M2.5	100
EFA04-64-001	EFA04-64-ASS	Yellow	0.177	4.5	2	0.289	7.33	0.106	2.7	#3 or M2.5	100

EFA04-02 Series
Fiber Clip





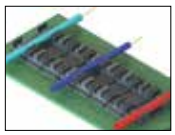
Specifications:
- Material: UL94 V-0 Nylon 6
- Color: Black

Features:
- Holds three 3mm diameter components
- Adhesive pad for easy application

Item No.	Ø Cable in	Ø Cable mm	No. of Slots	Contents	Bulk Pack Qty
EFA04-02-ASS	0.118	3.0	3	Clip with Adhesive Pad	100

FIBER CLIPS & GUIDES

EFA04 Series
Fiber Clip



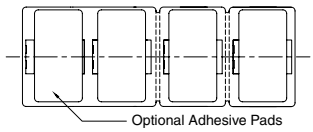


Figure 1

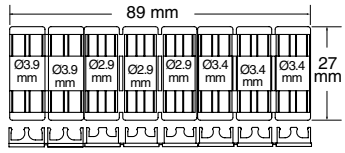


Figure 2

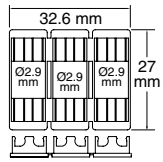


Figure 3

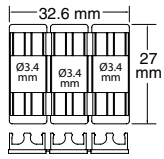


Figure 4

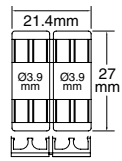


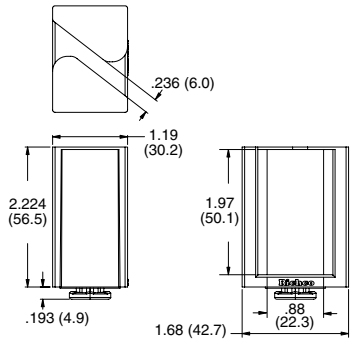
Figure 5

Specifications:
- Material: UL94 V-0 Nylon 6
- Color: See Table

Features:
- EFA04-06, EFA04-08, and EFA04-18 can be broken apart to form individual clips
- Various mounting options are available

Item No.				Ø Cable			Bulk Pack Qty.
Clip Only	Clip with Adhesive Pad(s)	Figure	Color	in	mm	No. of Slots	
EFA04-06-001	**EFA04-06-ASS**	1	Black	0.118	3.0	16	100
—	**EFA04-08-ASS**	1	Blue	0.079	2.0	16	100
—	**EFA04-18-ASS**	2	Black	.154, .134, .114	3.9, 3.4, 2.9	4, 6, 6 = 16	100
EFA04-71-001	**EFA04-71-P01**	3	Black	0.114	2.9	6	100
EFA04-71-002	**—**	4	Black	0.134	3.4	6	100
EFA04-71-003	**EFA04-71-P03**	5	Black	0.154	3.9	4	100

OFRB Series
Fiber Rack Bracket

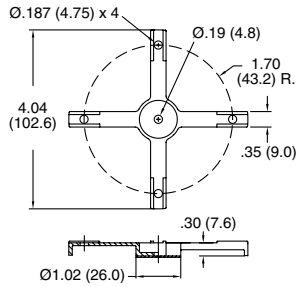


Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:
- Mounts into a standard 19” rack with a quarter turn
- Removable with a quarter turn
- No stress is applied to the fiber upon entry

Item No.	Square Mounting Hole		Panel Thickness		Bulk Pack Qty.
	in	mm	in	mm	
OFRB-1BK	0.465 x 0.465	11.8 x 11.8	0.063 - 0.079	1.6 - 2.0	100
OFRB-2BK	0.374 x 0.374	9.5 x 9.5	0.063 - 0.079	1.6 - 2.0	100

OFSB Series
Fiber Support Base



Specifications:
- Material: See Table
- Color: Natural

Features:
- Constructs a path for spooling fiber optic cables
- Designed for use in fiber optic patch panel applications
- Center hole is for mounting the base with a #8 screw or SR-5XXX rivet found on page 121
- Any Essentra wire routing device that is designed to snap into a 0.187 hole and a 0.062” panel can be mounted to this base; popular options are OFNS, STL, WS and LWS series

Item No.		Mounting Method	Bulk Pack Qty.
UL94 V-2 Nylon 6/6	UL94 V-0 Nylon 6/6		
OFSB-4-85-01A	**OFSB-4-85-19A**	Adhesive	100
OFSB-4-85-01	**OFSB-4-85-19**	#8 Screw of SR-5XXX Rivet	100

OFCC/OFCG Series
Fiber Coiling Clip

Figure 1

Figure 2

Specifications:
- Material: UL94 V-0 PVC
- Color: Black

Features:
- OFCG snaps onto OFCC to form a clip with a smooth, curved surface to accommodate fiber optic bundles
- OFCC and OFCG sold separately
- Limits the bend radius of the fiber

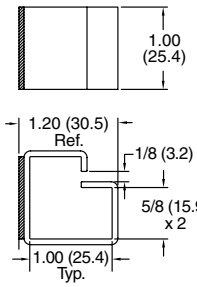


Figure 1

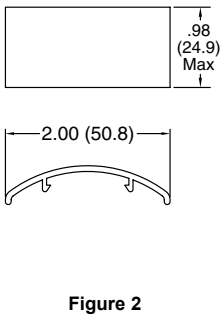


Figure 2

Item No.	Figure	Bulk Pack Qty.
OFCC-16A-RT	1	100
OFCG-16	2	100

EFA04 Series
Fiber Guide

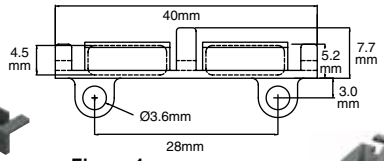


Figure 1

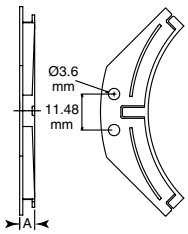


Figure 2

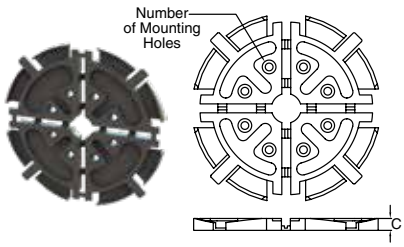


Figure 3

Specifications:
- Material: UL94 V-0 Nylon 6
- Color: Black

Features:
- Provide fiber storage as well as bend control
- Various mounting options are available
- The fiber reel screw mount holes are Ø2.8mm with a 90° countersink of Ø4.6mm (holes are spaced evenly on a 30mm diameter)
- Reel can be stacked or mounted above board using accessories below

Item No.					Height				Bulk Pack Qty.
Guide Only	Guide with Adhesive Pad(s)	Guide with SRHR-3555 Rivets	Figure	Guide Radius	In	mm	No. of Mounting Holes	Max Fiber Storage	
EFA04-60-001	EFA04-60-P01	EFA04-60-R01	1	Straight	0.197	5.0	2	—	100
EFA04-34-001	EFA04-34-P01	EFA04-34-R01	2	30 mm Radius Corner Guide	0.197	5.0	2	—	100
EFA04-34-010	EFA04-34-P10	EFA04-34-R10	2	30 mm Radius Corner Guide	0.315	8.0	2	—	100
EFA04-34-004	EFA04-34-P04	EFA04-34-R04	2	30 mm Radius Corner Guide	0.472	12.0	2	—	100
EFA04-34-002	EFA04-34-P02	EFA04-34-R02	2	35 mm Radius Corner Guide	0.189	4.8	2	—	100
EFA04-34-005	EFA04-34-P05	EFA04-34-R05	2	35 mm Radius Corner Guide	0.472	12.0	2	—	100
EFA04-34-003	EFA04-34-P03	EFA04-34-R03	2	40 mm Radius Corner Guide	0.189	4.8	2	—	100
EFA04-34-006	EFA04-34-P06	—	2	40 mm Radius Corner Guide	0.472	12.0	2	—	100
EFA04-34-007	EFA04-34-P07	EFA04-34-R07	2	30-37 mm Radius Ribbon Fiber Corner Guide	0.216	5.5	2	—	100
EFA04-04-001	EFA04-04-ASS	—	3	25 mm Radius Fiber Reel	0.157	4.0	8	2.5 m of 900 Micron Fiber	100
EFA04-21-001	EFA04-21-ASS	—	3	25 mm Radius Fiber Reel	0.250	6.4	8	4.5 m of 900 Micron Fiber	100
EFA04-10-001	EFA04-10-ASS	—	3	30 mm Radius Fiber Reel	0.153	3.9	8	3.0 m of 900 Micron Fiber	100
EFA04-14-001	EFA04-14-ASS	—	3	30 mm Radius Fiber Reel	0.488	12.4	8	9.0 m of 900 Micron Fiber	100
EFA04-76-001	—	—	3	35 mm Radius Fiber Reel	0.315	8.0	8	15.0 m of 900 Micron Fiber	100
EFA04-23-001	—	—	3	40 mm Radius Fiber Reel	0.250	6.4	4	7.0 m of 900 Micron Fiber	100

EFA04-53/EFA04-27 Series
Fiber Reel Stacking Pillar and Standoff

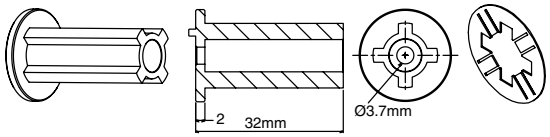


Figure 1

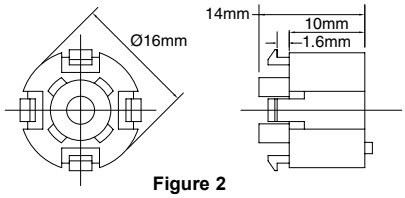


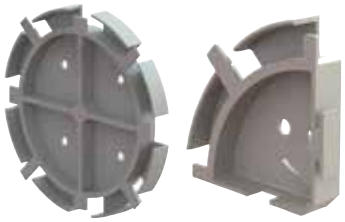
Figure 2

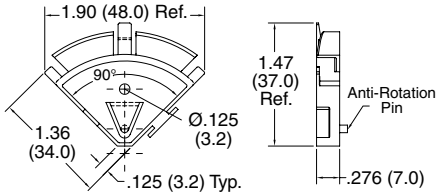
Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Black

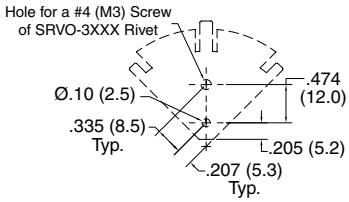
Features:
- EFA04-53-ASS is used to stack multiple EFA04 fiber reels, and retained with an included spring clip
- EFA04-27-ASS is used to space the EFA04 fiber reel off the PC Board (top of the standoff snaps into holes in the fiber reel)
- Mounted from the bottom of the board with included rivet

Item No.	Figure	Description	Bulk Pack Qty.
EFA04-53-ASS	1	Fiber Reel Stacking Pillar	100
EFA04-27-ASS	2	Fiber Reel Standoff	100

OFS Series
90°Fiber Segment, 30mm Radius







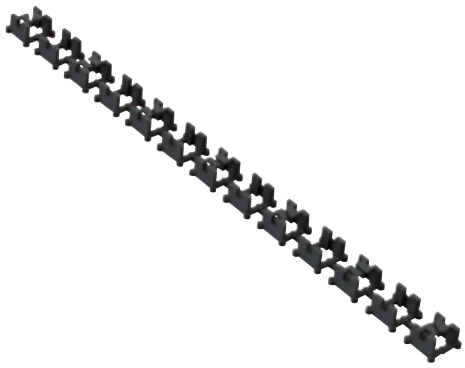
Recommended Mounting Holes

Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:
- Provides a 90° bend control radius
- Assemble two pieces for bend control around a 180° turn
- Assemble four pieces for excess fiber spooling at 30mm radius
- In a four-piece assembled mode, stores approximately 60m of 900 micron fiber
- Mounts with a #4 (M3) screw or SRVO-30XX snap rivet

Item No.	Bulk Pack Qty.
OFS90-30R	100

OFFG/OFFGSP Series
Flexible Fiber Guide System



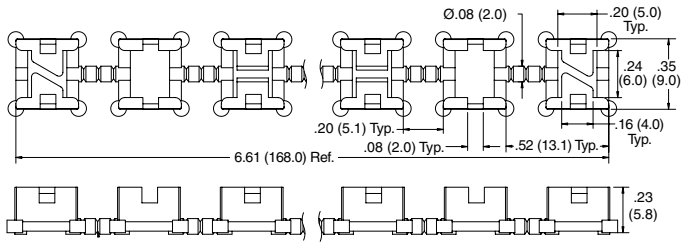


Figure 1

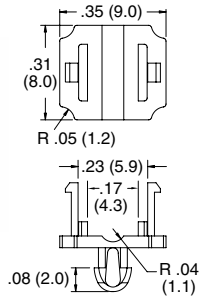


Figure 2

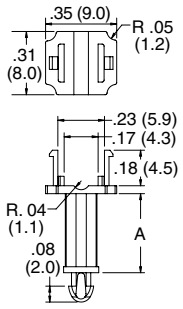


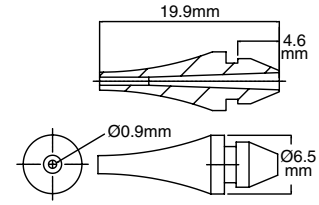
Figure 3

Specifications:
- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:
- Fully modular, flexible system giving complete fiber management and protection
- Unique spine allows the guide to be oriented in all planes
- For use with 250 and 900 micron fiber
- Fiber can enter and exit at any point, without risk of fiber snagging or kinking
- Angled and straight lugs located along the guide prevent the fiber from springing out
- 25mm maximum bend radius when flexed
- Guide can be cut to various lengths at flexible link sections
- Two types of support posts; OFFGSP-F for mounting flush to the panel, and OFFGSP-R that raises the guide 5mm
- Guide snaps easily into the support posts

Item No.	Figure	Description	Ø Mounting Hole		Panel Thickness		A		Bulk Pack Qty.
			in	mm	in	mm	in	mm	
OFFG-165M-19-BK	1	Fiber Guide	—	—	—	—	—	—	100
OFFGSP-F-19-BK	2	Flat Fiber Guide Support	0.098	2.5	0.063	1.6	—	—	100
OFFGSP-R-05-BK	3	Fiber Guide Spacer	0.098	2.5	0.063	1.6	0.200	5.0	100

EFA70-07 Series
900 Micron Strain Relief Boot

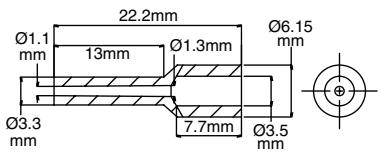


Specifications:
- Material: TPE
- Color: Black

Features:
- Provides added protection to 900 micron fiber while routing through a hole
- Limits the angle of the fiber preventing signal loss

Item No.	Hole Ø		Panel Thickness		Bulk Pack Qty.
	In	mm	In	mm	
EFA70-07-001	0.157	4.0	0.063	1.6	500

EFA70-01 Series
900 Micron Transition Boot

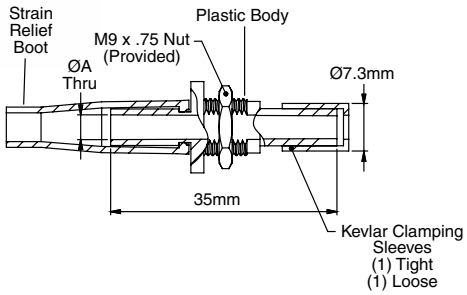


Specifications:
- Material: TPE
- Color: Black

Features:
- Transitions a 3mm jacketed fiber to a 900 micron fiber
- Limits the bend of the fiber, preventing signal loss

Item No.	Bulk Pack Qty.
EFA70-01-001	500

EFA52 Series
Quick Panel Mount Strain Relief Gland Kit

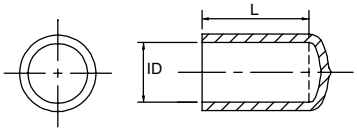


Specifications:
- Material: UL94 V-0 Nylon 6
- Color: Black

Features:
- Acts as a cable gland for jacketed fiber, preventing the cable from being pulled out of the device
- The plastic body mounts directly on the panel, and the jacketed cable is passed through the center hole
- On the inside of the panel, the cable's Kevlar strands are clamped to the plastic body using one of two clamping sleeves (whichever is appropriate)
- Secured in the panel with a mounting bolt
- On the outside of the panel, a flexible boot is attached to the plastic body, providing control over the bend-radius of the cable exiting the strain-relief assembly

Item No.	Ø Jacketed Fiber		A		Bulk Pack Qty.
	in	mm	in	mm	
EFA52-02-ASS	0.118	3.0	0.138	3.5	250
EFA52-05-ASS	0.079	2.0	0.098	2.5	250

EFA02-43 Series
Connector Adapter Dust Cap



Specifications:
- Material: PVC
- Color: Black

Features:
- Provides environmental protection for SMA, ST and FC connector adapters
- Made of flexible PVC to provide snug fit

Item No.	Contents	L		ID		Bulk Pack Qty.
		in	mm	in	mm	
EFA02-43-001	SMA Connector Adapter Dust Cap	0.500	12.7	0.120	3.0	500
EFA02-43-002	ST Connector Adapter Dust Cap	0.500	12.7	0.280	7.1	500
EFA02-43-003	FC Connector Adapter Dust Cap	0.310	8.0	0.280	7.1	500

DUST CAPS

EFA02 Series
Connector Dust Caps and Plugs

Figure 1

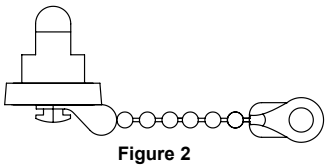


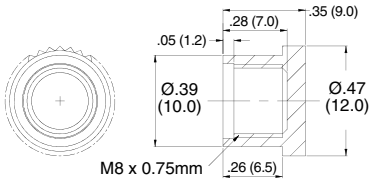
Figure 2

Specifications:
- Material: See Table
- Color: See Table

Features:
- The EFA02-14-001 plugs an SC connects and does not require a dust chain (other dust caps in this series require the retaining chain and cannot be sold separately)
- The steel caps are threaded onto the connector adapters
- Provides mechanical and environmental protection to adaptors when unmated
- Stainless Steel construction suitable for harsh environments
- 2.5” long chain

Item No.	Material: Figure 1 Stainless Steel Cap & Chain	Material: Figure 2 Black TPE Plug & Optional Stainless Steel Chain	Bulk Pack Qty.
EFA02-04-ASS	SMA Adapter Dust Cap & Chain	—	100
EFA02-07-ASS	DIN Adapter Dust Cap & Chain	—	100
EFA02-09-ASS	FC Adapter Dust Cap & Chain	—	100
EFA02-10-ASS	ST Adapter Dust Cap & Chain	—	100
EFA02-14-001	—	SC Adapter Dust Plug	250
EFA02-14-ASS	—	EFA02-14-001 Dust Plug with Chain	250

EFA02-03 Series
FC Connector Port Dust Cap

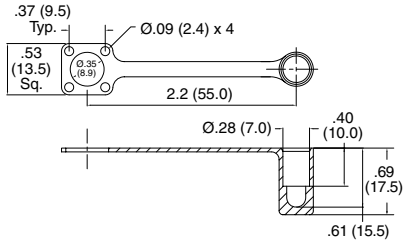


Specifications:
- Material: High-Density Polyethylene
- Color: See Table

Features:
- Dust caps are threaded onto the FC connector adapter providing protection from outside elements

Item No.	Color	Bulk Pack Qty.
EFA02-03-001	Natural	500
EFA02-03-002	Black	500
EFA02-03-003	Green	500
EFA02-03-004	White	500
EFA02-03-005	Red	500

EFA02-35 Series
ST Connector Port Dust Cap and Lanyard

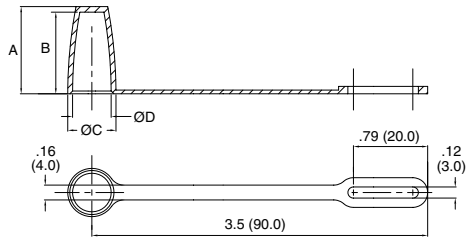


Specifications:
- Material: TPE
- Color: Black

Features:
- Provides environmental protection of ST connector ports
- Molded-on lanyard prevents the loss of the cap

Item No.	Bulk Pack Qty.
EFA02-35-001	250

EFA02 Series
Connector Port Dust Cap and Lanyard



Specifications:
- Material: PVC
- Color: Black

Features:
- Provides environmental protection to various connectors
- Molded-on lanyard is attached to the connector to prevent loss of cover

Item No.	Contents	A in	A mm	B in	B mm	C in	C mm	D in	D mm	Bulk Pack Qty.
EFA02-11-ASS	ST Connector Dust Cap	0.730	18.5	0.670	17.0	0.470	12.0	0.340	8.7	250
EFA02-13-ASS	FC Connector Dust Cap	0.730	18.5	0.670	17.0	0.600	15.3	0.470	12.0	250

CP Series
Connector Plugs

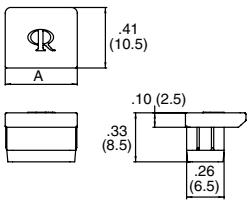


Figure 1

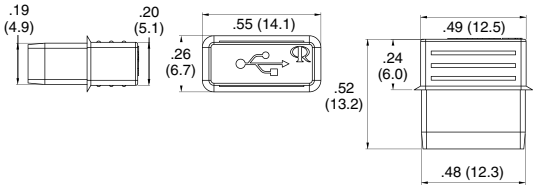


Figure 2

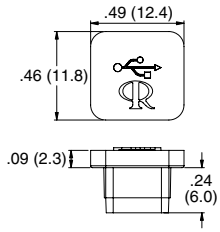


Figure 3

Specifications:
- Material: Silicone Rubber
- Color: Black

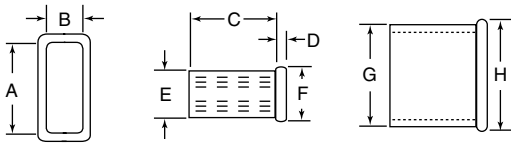
Features:
- No stress applied to the adapter's internal components upon entry
- Silicone material for high temperature applications up to 302°F (150°C)

Item No.	Figure	Connector Port	A		Bulk Pack Qty.
			in	mm	
CP-RJ11	1	RJ11	0.410	10.5	1000
CP-RJ45	1	RJ45	0.490	12.5	1000
CP-USB-A	2	USB-A	—	—	1000
CP-USB-B	3	USB-B	—	—	1000

USB-A Series
USB Connector Caps

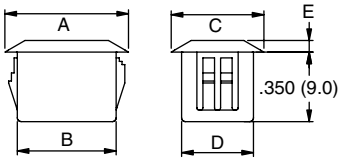
Specifications:
- Material: Polyethylene
- Color: Natural

Features:
- Protective dust cover for USB-A connectors



Item No.	A		B		C		D		E		F		G		H		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
USB0A	0.504	12.8	0.185	4.7	0.484	12.3	0.043	1.1	0.256	6.5	0.299	7.6	0.575	14.6	0.610	15.5	100

BPE Series
Connector Port Plugs



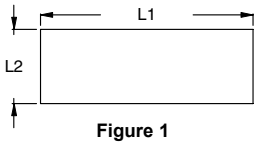


Figure 1

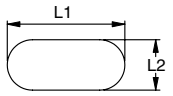


Figure 2

Recommended Mounting Holes

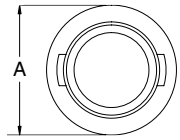
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

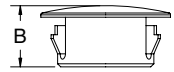
Features:
- Aesthetically pleasing, blanking off redundant connector parts
- Quick and easy installation; simply press fit in the designated hole
- ST Series covers Double-D, D or round holes

Item No.	Color	Mounting Hole Figure	L1		L2		A		B		C		D		E		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
BPE-SC-1-01	Black	1	0.512	13.0	0.374	9.5	0.850	21.5	0.500	12.8	0.470	12.0	0.370	9.3	0.059	1.5	1000
BPE-SC-2-01	Black	1	0.512	13.0	0.374	9.5	0.630	16.0	0.500	12.8	0.470	12.0	0.370	9.3	0.059	1.5	1000
BPE-SC-3-01	Black	1	1.024	26.0	0.374	9.5	1.370	34.8	1.020	25.8	0.470	12.0	0.370	9.3	0.059	1.5	1000
BPE-RJ45-01	Grey	1	0.760 - 0.790	19.3 - 20.0	0.590	15.0	0.870	22.0	0.580	14.7	0.700	17.7	0.750	19.1	0.059	1.5	1000
BPE-LC-D-01BK	Black	1	0.532	13.5	0.532	13.5	0.590	15.0	0.520	13.2	0.590	15.0	0.520	13.2	0.078	2.0	1000
BPE-ST-1-01	Black	2	0.370	19.4	0.311	7.9	Ø.470	Ø12	Ø.360	Ø9.2	Ø.470	Ø12	0.300	7.7	0.059	1.5	1000

CONNECTOR CAPS & PLUGS/SHEET METAL PLUGS

PGM/PLH Series
Standard Locking Hole Plug



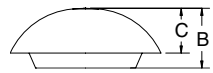


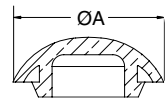
Specifications:
- Material: UL94V-2 Nylon 6/6
- Color: Black

Features:
- Each part fits multiple common sheet metal thicknesses
- Closes access sheet metal panel holes

Item No.	Mounting Hole		Max Panel Thickness		OD A		Overall Height B		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	
PGM-1	0.250	6.4	0.062	1.6	0.312	7.9	0.312	7.9	1000
PGM-6	0.252	6.4	0.067	1.7	0.299	7.6	0.221	5.6	1000
PGM-7	0.278	7.1	0.063	1.6	0.433	11.0	0.276	7.0	1000
PGM-8	0.307	7.8	0.063	1.6	0.375	9.5	0.236	6.0	1000
PGM-2	0.312	7.9	0.062	1.6	0.375	9.5	0.312	7.9	1000
PGM-33	0.375	9.5	0.125	3.2	0.468	11.9	0.406	6.4	1000
PGM-9	0.376	9.6	0.047	1.2	0.511	13.0	0.256	6.5	1000
PGM-10	0.386	9.8	0.055	1.4	0.511	13.0	0.236	6.0	1000
PGM-34	0.437	11.1	0.125	3.2	0.531	13.5	0.406	10.3	1000
PGM-3	0.468	11.9	0.062	1.6	0.531	13.5	0.250	6.4	1000
PGM-24	0.500	12.7	0.125	3.2	0.578	14.7	0.406	10.3	1000
PGM-5	0.500	12.7	0.062	1.6	0.562	14.3	0.250	6.4	1000
PGM-13	0.506	12.8	0.083	2.1	0.669	17.0	0.315	8.0	1000
PGM-11	0.531	13.5	0.062	1.6	0.593	15.1	0.250	6.4	500
PGM-26	0.562	14.3	0.125	3.2	0.656	16.7	0.406	10.3	200
PGM-27	0.625	15.9	0.125	3.2	0.718	18.2	0.406	10.3	200
PGM-12	0.625	15.9	0.062	1.6	0.718	18.2	0.250	6.4	500
PGM-16	0.628	16.0	0.079	2.0	0.787	20.0	0.315	8.0	500
PGM-28	0.687	17.5	0.125	3.2	0.781	19.8	0.406	10.3	200
PGM-19	0.746	19.0	0.125	3.2	0.925	23.5	0.413	10.5	500
PGM-14	0.750	19.1	0.062	1.6	0.843	21.4	0.250	6.4	500
PGM-15	0.781	19.8	0.062	1.6	0.890	22.6	0.250	6.4	500
PGM-22	0.864	22	0.118	3.0	1.024	26.0	0.378	9.6	500
PGM-17	0.875	22.2	0.062	1.6	0.968	24.6	0.250	6.5	500
PGM-29	0.875	22.2	0.125	3.2	1.125	28.6	0.453	11.5	200
PGM-25	1.004	25.5	0.125	3.2	1.102	28.0	0.500	12.7	200
PGM-32	1.097	27.9	0.125	3.2	1.218	30.9	0.465	11.8	200
PGM-30	1.203	30.6	0.125	3.2	1.339	34.0	0.512	13.0	200
PGM-18	1.250	31.8	0.125	3.2	1.375	34.9	0.465	11.8	200
PGM-20	1.375	35.0	0.125	3.2	1.500	38.1	0.465	11.8	200
PGM-31	1.500	38.1	0.125	3.2	1.671	42.4	0.465	11.8	200
PGM-21	1.750	44.5	0.125	3.2	1.906	48.4	0.465	11.8	100
PGM-23	2.000	50.8	0.125	3.2	2.170	55.1	0.470	11.9	100
PLH023A	2.500	63.5	0.250	6.4	2.775	70.5	0.750	19.1	500

LTP Series
IP67 Liquid Tight Plug



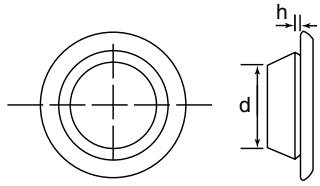


Specifications:
- Material: UL94 V-0 Silicone
- Color: Black

Features:
- Offers protection up to IP67
- Temperature Range: -40°F to 302°F (-40°C - 150°C)

Item No.	Ø Mounting Hole		Ø Head A		Overall Height B		Head Height C		Max Panel Thickness		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	
LTP-4	0.500	12.7	0.92	23.4	0.449	11.4	0.287	7.3	0.125	3.2	1000
LTP-7	0.625	15.9	1.09	27.7	0.455	11.6	0.319	8.1	0.125	3.2	500
LTP-5	0.750	19.1	1.15	29.2	0.512	13.0	0.350	8.9	0.125	3.2	500
LTP-1	0.875	22.2	1.26	32.0	0.500	12.7	0.374	9.5	0.125	3.2	1000
LTP-6	1.000	25.4	1.41	35.8	0.559	14.2	0.398	10.1	0.125	3.2	200
LTP-2	1.093	27.8	1.54	39.2	0.539	13.7	0.413	10.5	0.125	3.2	500
LTP-3	1.375	34.9	1.82	46.2	0.579	14.7	0.433	11.0	0.125	3.2	200

BP Series
Flexible Hole Plug

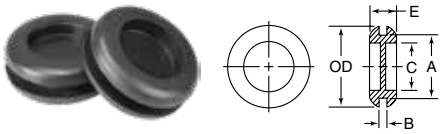


Specifications:
- Material: TPE
- Color: Black

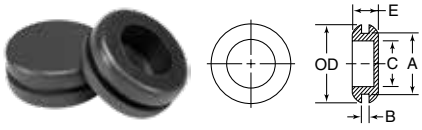
Features:
- Each size covers a range of panel thicknesses
- Designed to fit standard metric holes
- Very resistant to oils, acids and alkalies

Item No.	Panel Hole d		Panel Thickness h		OD		Bulk Pack Qty
	in	mm	in	mm	in	mm	
BP-16230	0.394	10.0	0.032 - 0.079	0.8 - 2.0	0.76	19.3	1000
BP-16231	0.472	12.0	0.032 - 0.079	0.8 - 2.0	0.83	21.0	1000
BP-16232	0.551	14.0	0.032 - 0.079	0.8 - 2.0	0.91	23.0	1000
BP-16233	0.630	16.0	0.032 - 0.079	0.8 - 2.0	0.98	25.0	1000
BP-16234	0.709	18.0	0.032 - 0.079	0.8 - 2.0	1.06	27.0	1000
BP-16236	0.866	22.0	0.032 - 0.079	0.8 - 2.0	1.23	31.2	1000
BP-3	0.866	22.0	0.063 - 0.118	1.6 - 3.0	1.10	28.0	1000
BP-4	1.043	26.5	0.063 - 0.118	1.6 - 3.0	1.28	32.5	1000
BP-16238	1.181	30.0	0.032 - 0.079	0.8 - 2.0	1.55	39.4	1000

GRD/DG/DGB Series
Diaphragm Grommet



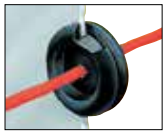
Style 1



Style 2

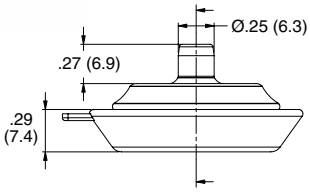
Specifications:
- Material: GRD/DG: Flexible PVC
  DGB: UL94 HB TPE
- Color: Black

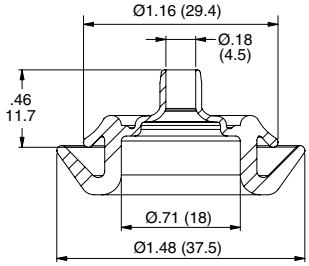
Features:
- Use as a blanking plugs to conceal access holes until wire are installed
- To install wires, pierce the central membrane film and insert wire
- Design allows for multiple ranges of wires to pass thru
- PVC material is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities



Item No.	Style	Ø Mounting Hole A		Panel Thickness		C Ref.		OD		E		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	
DGB-2.5	2	0.25	6.4	0.03	0.8	0.16	4.1	0.37	9.4	0.14	3.6	1000
DGB-4	2	0.39	9.9	0.06	1.5	0.25	6.4	0.50	12.7	0.26	6.6	1000
DGB-6	2	0.43	11.0	0.06	1.5	0.31	8.0	0.69	17.5	0.31	8.0	1000
DGB-5	2	0.49	12.5	0.06	1.5	0.37	9.5	0.62	15.7	0.25	6.4	1000
DG-19426	1	0.63	16.0	0.06	1.5	0.43	11.0	0.75	19.0	0.23	5.8	1000
DGB-7	2	0.63	16.0	0.06	1.5	0.43	11.0	0.75	19.0	0.31	8.0	1000
GRD1062091PA	1	0.63	16.0	0.09	2.4	0.49	12.5	0.87	22.0	0.32	8.0	5000
GRD2075061PA	2	0.75	19.0	0.06	1.5	0.63	16.0	1.00	25.4	0.28	7.0	4000
DGB-11	2	0.75	19.0	0.06	1.5	0.63	16.0	1.00	25.4	0.28	7.0	1000
DG-15512	1	0.75	19.0	0.08	2.0	0.63	15.9	1.00	25.5	0.31	7.9	1000
DG-10134	1	0.75	19.0	0.09	2.4	0.61	15.5	1.00	25.5	0.35	8..8	1000
GRD1075121PA	1	0.75	19.0	0.12	3.0	0.61	15.5	1.00	25.5	0.37	9.5	2500
DG-10187	1	0.79	20.0	0.06	1.5	0.61	15.5	1.00	25.5	0.32	8.0	1000
DGB-10	2	0.87	22.0	0.06	1.5	0.72	18.4	1.00	25.5	0.31	8.0	1000
GRD2087061PA	2	0.87	22.0	0.06	1.5	0.74	18.8	1.00	25.5	0.31	8.0	4000
DGB-13	2	1.00	25.4	0.06	1.5	0.81	20.5	1.18	30.0	0.31	8.0	1000
GRD2100061PA	2	1.00	25.4	0.06	1.5	0.81	20.5	1.18	30.0	0.31	8.0	2000
GRD1100091PA	1	1.00	25.5	0.09	2.4	0.75	19.0	1.44	36.5	0.33	8.4	2000
GRD1125091PA	1	1.26	32.0	0.09	2.4	0.98	25.0	1.54	39.0	0.32	8.0	1000
GRD1125151PA	1	1.26	32.0	0.16	4.0	1.00	25.5	1.54	39.0	0.38	9.5	1000
GRD21625375PA	2	1.63	42.0	0.09	2.4	1.22	31.0	1.93	49.0	0.40	10.1	1000

AHG Series
Angular Hole Grommet





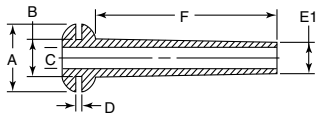
Specifications:
- Materials: EPDM, 60 Shore A
- Color: Black

Features:
- Allows cables to pass through a panel at a maximum 45° angle

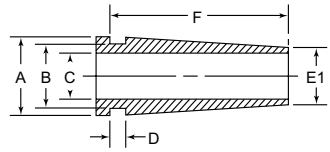
Item No.	Ø Cable Size		Panel Thickness D		Mounting Hole Ø		Bulk Pack Qty.
	in	mm	in	mm	in	mm	
AHG-1	0.197 - 0.276	5.0 - 7.0	0.079 - 0.098	2.0 - 2.5	0.945	24.0	500

GROMMETS & GROMMET SLEEVES

GRS/RGS Series
Grommet Sleeve



Style 1



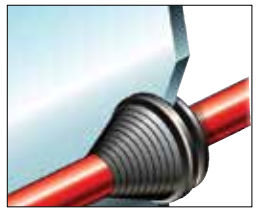
Style 2

Specifications:
- Material: Flexible PVC
- Color: Black

Features:
- Sleeve design provides additional support and protection for cables/wires passing through panel
- PVC is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities

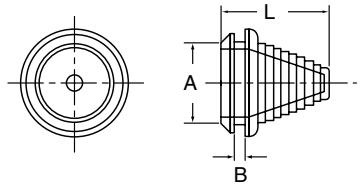
Item No.	Style	Ø Hole B		Panel Thickness D		A Ø		C Ø		E1		F		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
GRS1030151A	1	0.300	7.6	0.156	4.0	0.560	14.2	0.240	6.1	0.311	7.9	1.250	31.8	5000
RGS1-60466	1	0.343	8.7	0.062	1.6	0.560	14.2	0.200	5.1	0.280	7.1	1.650	42.0	4000
GRS1037091A	1	0.374	9.5	0.094	2.4	0.560	14.2	0.250	6.4	0.311	7.9	0.562	14.3	10000
RGS2-12462	2	0.500	12.7	0.125	3.2	0.595	15.1	0.375	9.5	0.468	11.9	1.398	35.5	1000
GRS2050121A	2	0.500	12.7	0.125	3.2	0.595	15.1	0.375	9.5	0.468	11.9	1.398	35.5	2000
RGS2-51409	2	0.500	12.7	0.031	0.8	0.750	19.1	0.381	9.7	0.480	12.2	1.055	26.8	1000
GRS2050031A	2	0.500	12.7	0.031	0.8	0.750	19.1	0.381	9.7	0.480	12.2	1.055	26.8	4000

GRC Series
Stepped Grommet



Specifications:
- Material: Flexible PVC
- Color: Black

Features:
- Protects wires, cables, tubing, hoses
- Accommodates a range of cable sizes
- Can be used as a blanking plug until cut

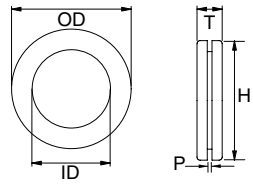


Item No.	Panel Hole Size A		Panel Thickness B		Length L		Cable Range		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	
1251347	0.500	12.7	0.120	3.0	1.270	32.5	0.200 - 0.350	5.0 - 9.0	1000
1251348	0.830	21.0	0.120	3.0	1.080	27.5	0.200 - 0.670	5.0 - 17.0	1000
1251349	1.020	26.0	0.120	3.0	1.160	29.5	0.390 - 0.870	10.0 - 22.0	1000

HG Series
TPE Flexible Hole Grommet

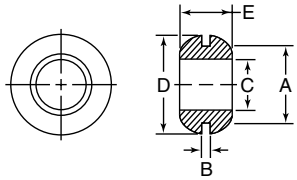
Specifications:
- Material: UL94 HB TPE
- Color: Black
- Temperature Range: -58°F to 203°F (-50°C - 95°C)

Features:
- Suitable for outdoor use in accordance with UL 746C



Item No.	Mounting Hole H		Panel Thickness P		ID		OD		Thickness T		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	
HG-2	0.190	4.8	0.063	1.6	0.125	3.2	0.313	8.0	0.252	6.4	1000
HG-2.5	0.252	6.4	0.063	1.6	0.156	4.0	0.375	9.5	0.248	6.3	1000
HG-3	0.305	7.7	0.032	0.8	0.188	4.8	0.430	10.9	0.188	4.8	1000
HG-3.5	0.315	8.0	0.063	1.6	0.219	5.5	0.430	10.9	0.217	5.5	1000
HG-4	0.375	9.5	0.094	2.4	0.250	6.4	0.559	14.2	0.276	7.0	1000
HG-5	0.430	10.9	0.063	1.6	0.313	8.0	0.562	14.3	0.188	4.8	1000
HG-17	0.433	11.0	0.079	2.0	0.313	8.0	0.630	16.0	0.276	7.0	1000
HG-6	0.492	12.5	0.063	1.6	0.375	9.5	0.669	17.0	0.276	7.0	1000
HG-8	0.660	16.8	0.063	1.6	0.495	12.6	0.846	21.5	0.250	6.4	1000
HG-9	0.675	17.1	0.063	1.6	0.558	14.2	0.875	22.2	0.188	4.8	1000
HG-11	0.735	18.7	0.063	1.6	0.672	17.1	0.933	23.7	0.188	4.8	1000
HG-10	0.742	18.8	0.063	1.6	0.610	15.5	0.875	22.2	0.219	5.6	1000
HG-18	0.748	19.0	0.094	2.4	0.500	12.7	0.954	24.0	0.280	7.1	1000
HG-12	0.976	24.8	0.063	1.6	0.734	18.6	1.234	31.3	0.313	8.0	1000
HG-14	0.990	25.1	0.063	1.6	0.860	21.8	1.188	30.2	0.313	8.0	1000
HG-16	1.240	31.5	0.063	1.6	0.970	24.6	1.500	38.1	0.313	8.0	1000

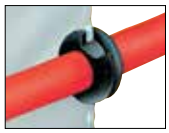
GRO Series
Flexible Hole
Grommet



EXPANDED LINE

Specifications:
- Material: See Table
- Color: Black

Features:
- Standard PVC material is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities



Item No.			Panel Hole Size A		Panel Thickness B		ID C		OD D		Overall Height E		PVC Shore A Rating	Bulk Pack Qty.
PVC		TPR	in	mm	in	mm	in	mm	in	mm	in	mm		
GRO018031A	•	15057	0.188	4.8	0.031	0.8	0.109	2.8	0.315	8.0	0.188	4.8	55	10000
GRO018061A	•	15058	0.188	4.8	0.063	1.6	0.125	3.2	0.315	8.0	0.250	6.4	55	10000
GRO023041A		—	0.234	6.0	0.047	1.2	0.125	3.2	0.346	8.8	0.156	4.0	55	10000
GRO025031A	•	15060	0.252	6.4	0.031	0.8	0.156	4.0	0.375	9.5	0.156	4.0	43	10000
GRO025061A	•	15059	0.252	6.4	0.063	1.6	0.156	4.0	0.375	9.5	0.248	6.3	55	10000
—	•	15061	0.252	6.4	0.063	1.6	0.188	4.8	0.375	9.5	0.276	7.0	—	10000
GRO025062A		—	0.252	6.4	0.063	1.6	0.188	4.8	0.375	9.5	0.281	7.1	55	10000
GRO025121A	•	15062	0.252	6.4	0.118	3.0	0.156	4.0	0.375	9.5	0.315	8.0	43	10000
GRO028091A		—	0.281	7.1	0.094	2.4	0.188	4.8	0.438	11.1	0.281	7.1	55	10000
GRO031121A		—	0.313	7.9	0.063	1.6	0.118	3.0	0.433	11.0	0.315	8.0	55	10000
—	•	15064	0.315	8.0	0.031	0.8	0.188	4.8	0.433	11.0	0.188	4.8	55	10000
GRO031061A		—	0.315	8.0	0.031	0.8	0.216	5.5	0.433	11.0	0.216	5.5	43	10000
—	•	15065	0.315	8.0	0.063	1.6	0.216	5.5	0.433	11.0	0.216	5.5	—	10000
GRO031031A		—	0.315	8.0	0.031	0.8	0.188	4.8	0.433	11.0	0.188	4.8	55	10000
—	•	15072	0.375	9.5	0.014	1.2	0.276	7.0	0.543	13.8	0.156	4.0	—	10000
—	•	15067	0.375	9.5	0.063	1.6	0.188	4.8	0.492	12.5	0.268	6.8	—	10000
GRO037061A	•	15069	0.375	9.5	0.063	1.6	0.250	6.4	0.559	14.2	0.250	6.4	55	10000
GRO037091A		—	0.375	9.5	0.063	1.6	0.250	6.4	0.559	14.2	0.276	7.0	55	10000
—	•	15073	0.375	9.5	0.063	1.6	0.315	8.0	0.559	14.2	0.188	4.8	—	10000
—	•	15074	0.375	9.5	0.063	1.6	0.315	8.0	0.559	14.2	0.315	8.0	—	10000
GRO031041A		—	0.375	9.5	0.047	1.2	0.219	5.6	0.438	11.1	0.156	4.0	55	10000
—	•	15068	0.375	9.5	0.095	2.4	0.250	6.4	0.559	14.2	0.276	7.0	—	10000
GRO037041A		—	0.375	9.5	0.047	1.2	0.281	7.1	0.563	14.3	0.188	4.8	55	10000
—		15071	0.402	10.2	0.047	1.2	0.276	7.0	0.543	13.8	0.177	4.5	—	10000
GRO040061A		—	0.406	10.3	0.063	1.6	0.283	7.2	0.563	14.3	0.156	4.0	55	10000
GRO043061A	•	15075	0.433	11.0	0.063	1.6	0.315	8.0	0.559	14.2	0.188	4.8	55	10000
—	•	15076	0.433	11.0	0.063	1.6	0.315	8.0	0.559	14.2	0.315	8.0	—	10000
—	•	15078	0.433	11.0	0.063	1.6	0.315	8.0	0.630	16.0	0.250	6.4	—	10000
GRO046071A		—	0.469	11.9	0.078	2.0	0.378	9.6	0.688	17.5	0.266	6.8	55	10000
—	•	15079	0.492	12.5	0.063	1.6	0.250	6.4	0.630	16.0	0.315	8.0	—	10000
—	•	15080	0.492	12.5	0.063	1.6	0.315	8.0	0.630	16.0	0.250	6.4	—	10000
GRO050061A	•	15084	0.492	12.5	0.063	1.6	0.375	9.5	0.669	17.0	0.276	7.0	55	10000
—	•	15086	0.492	12.5	0.063	1.6	0.433	11.0	0.478	19.0	0.250	6.4	—	10000
GRO050121A	•	15081	0.492	12.5	0.118	3.0	0.315	8.0	0.630	16.0	0.315	8.0	55	10000
GRO050122A	•	15083	0.492	12.5	0.118	3.0	0.375	9.5	0.669	17.0	0.346	8.8	55	10000
GRO056061A	•	15087	0.559	14.2	0.063	1.6	0.433	11.0	0.748	19.0	0.250	6.4	55	10000
GRO062031A		—	0.625	15.9	0.031	0.8	0.438	11.1	0.748	19.0	0.375	9.5	55	10000
GRO062041A	•	15089	0.629	16.0	0.047	1.2	0.493	12.5	0.807	20.5	0.276	7.0	55	10000
GRO068031A		—	0.688	17.5	0.031	0.8	0.563	14.3	0.875	22.2	0.281	7.1	55	10000
GRO068061A	•	15090	0.688	17.5	0.063	1.6	0.493	12.5	0.866	22.0	0.250	6.4	55	8000
GRO068062A		—	0.688	17.5	0.063	1.6	0.559	14.2	0.866	22.0	0.188	4.8	55	10000
GRO068121A		—	0.688	17.5	0.125	3.2	0.500	12.7	0.875	22.2	0.313	7.9	55	8000
—	•	15096	0.748	19.0	0.063	1.6	0.492	12.5	1.004	25.5	0.250	6.4	—	2500
GRO075061A		—	0.748	19.0	0.063	1.6	0.629	16.0	0.866	22.0	0.216	5.5	55	10000
—	•	15093	0.748	19.0	0.063	1.6	0.629	16.0	0.945	24.0	0.236	6.0	—	7000
GRO075062A		—	0.748	19.0	0.063	1.6	0.689	17.5	0.945	24.0	0.188	4.8	55	10000
—	•	15095	0.787	20.0	0.063	1.6	0.630	16.0	0.945	24.0	0.256	6.5	—	7000
GRO081041A		—	0.807	20.5	0.047	1.2	0.630	16.0	1.063	27.0	0.315	8.0	55	4000
-	•	15098	0.807	20.5	0.047	1.2	0.630	16.0	1.063	27.0	0.315	8.0	—	10000
GRO087121A		—	0.875	22.3	0.125	3.2	0.625	15.9	1.063	27.0	0.375	9.5	55	4000
GRO100041A		—	1.000	25.4	0.047	1.2	0.728	18.5	1.236	31.4	0.297	7.5	55	2000
GRO100061A	•	15099	1.000	25.4	0.063	1.6	0.728	18.5	1.236	31.4	0.315	8.0	55	4000
GRO100062A		—	1.000	25.2	0.063	1.6	0.866	22.0	1.181	30.0	0.315	8.0	55	4000
—	•	15101	1.000	25.5	0.063	1.6	0.866	22.0	1.181	30.0	0.315	8.0	—	10000
GRO100121A		-	1.000	25.4	0.125	3.2	0.750	19.1	1.250	31.8	0.375	9.5	55	2000
GRO125061A	•	15102	1.220	31.0	0.063	1.6	1.000	25.4	1.496	38.0	0.307	7.8	55	2000
GRO125031A		—	1.260	32.0	0.031	0.8	1.000	25.4	1.750	44.5	0.250	6.4	55	2000
GRO125121A		—	1.250	31.8	0.125	3.2	1.000	25.4	1.500	38.1	0.359	9.1	55	2000
GRO150061A	•	15105	1.457	37.0	0.063	1.6	1.228	31.2	1.791	45.5	0.375	9.5	55	1000
GRO150121A	•	15104	1.500	38.0	0.118	3.0	1.250	32.0	1.813	46.0	0.438	11.0	55	1000
GRO175061A		—	1.750	44.5	0.063	1.6	1.500	38.1	2.000	50.8	0.375	9.5	55	1000
GRO175121A		—	1.750	44.5	0.125	3.2	1.500	38.1	2.000	50.8	0.375	9.5	55	1000
GRO200061A	•	15106	2.000	50.0	0.063	1.6	1.750	45.0	2.375	60.0	0.406	10.0	55	500
GRO200121A		—	2.000	50.8	0.125	3.2	1.750	44.5	2.375	60.3	0.469	11.9	55	500

GROMMETS

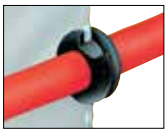
GR Series
Rubber Hole Grommets

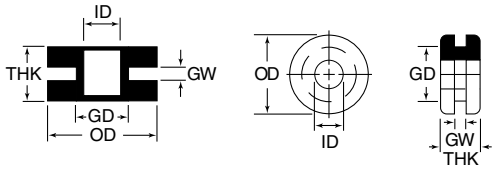
Specifications:

- Material: SBR (Styrene Butadiene) 60 Durometer
- Color: Black
- Tensile Range: 30 - 100psi
- Temperature Range: 225°F to -50°F (107°C to -46°C)

Features:

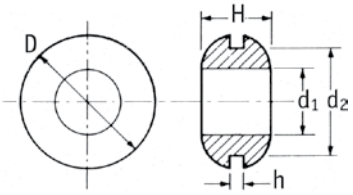
- Protects wires, cables, tubing, and hoses
- Installs instantly by simply snapping into hole
- Excellent adhesion, designed to fit standard sheet metal holes





Item No.	Panel Hole GD		Panel Thickness GW		ID		OD		Overall Thickness THK		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	
GR3001A	0.250	6.4	0.063	1.6	0.125	3.2	0.344	8.7	0.188	4.8	15000
GR3041A	0.250	6.4	0.063	1.6	0.156	4.0	0.375	9.5	0.188	4.8	12000
GR3053A	0.281	7.2	0.094	2.4	0.188	4.8	0.438	11.1	0.219	5.6	8000
GR3081A	0.313	7.9	0.063	1.6	0.188	4.8	0.438	11.1	0.188	4.8	10000
GR3047A	0.313	7.9	0.063	1.6	0.219	5.6	0.438	11.1	0.188	4.8	15000
GR3401A	0.313	7.9	0.094	2.4	0.109	2.8	0.500	12.7	0.219	5.6	5000
GR3146A	0.313	7.9	0.125	3.2	0.188	4.8	0.438	11.1	0.250	6.4	10000
GR3105A	0.313	7.9	0.250	6.4	0.188	4.8	0.438	11.1	0.375	9.5	5000
GR3165A	0.375	9.5	0.063	1.6	0.250	6.4	0.563	14.3	0.250	6.4	6000
GR3164A	0.375	9.5	0.094	2.4	0.250	6.4	0.500	12.7	0.250	6.4	5000
GR3166A	0.375	9.5	0.125	3.2	0.250	6.4	0.500	12.7	0.281	7.2	5000
GR3028A	0.375	9.5	0.188	4.8	0.188	4.8	0.625	15.9	0.375	9.5	3300
GR3009A	0.375	9.5	0.375	9.5	0.313	7.9	0.563	14.3	0.500	12.7	3000
GR3400A	0.406	10.3	0.125	3.2	0.266	6.8	0.625	15.9	0.375	9.5	6000
GR3002A	0.438	11.1	0.063	1.6	0.250	6.4	0.625	15.9	0.188	4.8	5000
GR3104A	0.438	11.1	0.094	2.4	0.313	7.9	0.625	15.9	0.313	7.9	4000
GR3127A	0.438	11.1	0.188	4.8	0.250	6.4	0.625	15.9	0.313	7.9	2500
GR3384A	0.465	11.8	0.095	2.4	0.250	6.4	0.765	19.4	0.294	7.5	5000
GR3027A	0.469	11.9	0.250	6.4	0.250	6.4	0.625	15.9	0.500	12.7	5000
GR3016A	0.500	12.7	0.125	3.2	0.375	9.5	0.625	15.9	0.406	10.3	7000
GR3250A	0.500	12.7	0.125	3.2	0.375	9.5	0.625	15.9	0.313	7.9	7000
GR3091A	0.500	12.7	0.188	4.8	0.250	6.4	0.625	15.9	0.438	11.1	3500
GR3033A	0.500	12.7	0.250	6.4	0.375	9.5	0.750	19.1	0.500	12.7	4800
GR3209A	0.500	12.7	0.375	9.5	0.375	9.5	0.625	15.9	0.625	15.9	5500
GR3017A	0.531	13.5	0.125	3.2	0.375	9.5	0.750	19.1	0.375	9.5	5000
GR3065A	0.563	14.3	0.063	1.6	0.313	7.9	0.813	20.6	0.313	7.9	4000
GR3035A	0.563	14.3	0.188	4.8	0.375	9.5	0.813	20.6	0.375	9.5	5000
GR3123A	0.563	14.3	0.375	9.5	0.375	9.5	0.750	19.1	0.750	19.1	2000
GR3076A	0.625	15.9	0.063	1.6	0.375	9.5	0.875	22.2	0.313	7.9	5000
GR3150A	0.625	15.9	0.125	3.2	0.375	9.5	0.875	22.2	0.375	9.5	4000
GR3110A	0.625	15.9	0.250	6.4	0.375	9.5	0.875	22.2	0.500	12.7	2700
GR3183A	0.625	15.9	0.375	9.5	0.406	10.3	0.813	20.6	0.625	15.9	2000
GR3131A	0.688	17.5	0.188	4.8	0.438	11.1	0.938	23.8	0.438	11.1	3000
GR3218A	0.750	19.1	0.156	4.0	0.500	12.7	0.938	23.8	0.406	10.3	3000
GR3132A	0.813	20.6	0.188	4.8	0.500	12.7	1.063	27.0	0.438	11.1	2000
GR3134A	0.813	20.6	0.188	4.8	0.563	14.3	1.063	27.0	0.438	11.1	1600
GR3113A	0.813	20.6	0.250	6.4	0.563	14.3	1.063	27.0	0.500	12.7	1500
GR3080A	0.875	22.2	0.063	1.6	0.625	15.9	1.125	28.6	0.313	7.9	2500
GR3155A	0.875	22.2	0.125	3.2	0.625	15.88	1.125	28.58	0.375	9.53	2400
GR3100A	0.875	22.2	0.188	4.8	0.563	14.3	1.063	27.0	0.438	11.1	2500
GR3135A	0.875	22.2	0.188	4.8	0.625	15.9	1.125	28.6	0.438	11.1	2000
GR3114A	0.875	22.2	0.250	6.4	0.625	15.9	1.125	28.6	0.500	12.7	1500
GR3101A	0.875	22.2	0.375	9.5	0.563	14.3	1.063	27.0	0.625	15.9	1500
GR3342A	0.969	24.6	0.375	9.5	0.688	17.5	1.313	33.3	0.625	15.9	1000
GR3068A	1.000	25.4	0.063	1.6	0.688	17.5	1.313	33.3	0.375	9.5	1500
GR3156A	1.000	25.4	0.125	3.2	0.688	17.5	1.313	33.3	0.438	11.1	1500
GR3136A	1.000	25.4	0.188	4.8	0.688	17.5	1.313	33.3	0.500	12.7	1500
GR3115A	1.000	25.4	0.250	6.4	0.688	17.5	1.313	33.3	0.563	14.3	1200
GR3390A	1.000	25.4	0.250	6.4	0.875	22.2	1.250	31.8	0.625	15.9	1000
GR3219A	1.000	25.4	0.266	6.8	0.500	12.7	1.375	34.9	0.500	12.7	1100
GR3031A	1.063	27.0	0.063	1.6	0.750	19.1	1.375	34.9	0.375	9.5	1000
GR3157A	1.063	27.0	0.125	3.2	0.750	19.1	1.375	34.9	0.438	11.1	1400
GR3137A	1.063	27.0	0.188	4.8	0.750	19.1	1.375	34.9	0.500	12.7	1000
GR3116A	1.063	27.0	0.250	6.4	0.750	19.1	1.375	34.9	0.563	14.3	1200
GR3246A	1.188	30.2	0.141	3.6	0.875	22.2	1.375	34.9	0.406	10.3	1800
GR3158A	1.250	31.8	0.125	3.2	0.750	19.1	1.625	41.3	0.313	7.9	1300
GR3160A	1.250	31.8	0.125	3.2	0.875	22.2	1.625	41.3	0.500	12.7	850
GR3259A	1.250	31.8	0.125	3.2	0.875	22.2	1.562	39.7	0.750	19.1	550
GR3138A	1.250	31.8	0.188	4.8	0.875	22.2	1.625	41.3	0.563	14.3	750
GR3117A	1.250	31.8	0.250	6.4	0.750	19.1	1.625	41.3	0.438	11.1	1000
GR3118A	1.250	31.8	0.250	6.4	0.875	22.2	1.625	41.3	0.625	15.9	800
GR3062A	1.250	31.8	0.250	6.4	1.000	25.4	1.500	38.1	0.500	12.7	1000
GR3410A	1.250	31.8	0.470	11.9	0.750	19.1	1.500	38.1	0.660	16.8	600
GR3072A	1.375	34.9	0.063	1.6	1.000	25.4	1.750	44.5	0.438	11.1	700
GR3161A	1.375	34.9	0.125	3.2	1.000	25.4	1.750	44.5	0.500	12.7	700
GR3139A	1.375	34.9	0.188	4.8	1.000	25.4	1.750	44.5	0.563	14.3	500
GR3119A	1.375	34.9	0.250	6.4	1.000	25.4	1.750	44.5	0.625	15.9	500
GR3064A	1.500	38.1	0.063	1.6	1.125	28.6	1.875	47.6	0.375	9.5	700
GR3180A	1.500	38.1	0.156	4.0	1.188	30.2	1.750	44.5	0.406	10.3	800
GR3262A	1.500	38.1	0.250	6.4	1.250	31.8	2.000	50.8	0.516	13.1	500
GR3267A	1.500	38.1	0.250	6.4	1.250	31.8	1.750	44.5	0.500	12.7	600
GR3087A	1.625	41.3	0.063	1.6	0.875	22.2	2.000	50.8	0.438	11.1	600
GR3383A	1.625	41.3	0.125	3.2	1.375	34.9	1.875	47.6	0.406	10.3	750
GR3266A	1.625	41.3	0.188	4.8	1.250	31.8	1.875	47.6	0.500	12.7	700
GR3173A	1.703	43.3	0.516	13.1	1.500	38.1	2.094	53.2	0.752	19.1	400
GR3073A	1.750	44.5	0.063	1.6	1.500	38.1	2.125	54.0	0.438	11.1	500
GR3409A	1.750	44.5	0.075	1.9	1.625	41.3	2.100	53.3	0.260	6.6	900
GR3163A	1.750	44.5	0.125	3.2	1.500	38.1	2.125	54.0	0.500	12.7	600
GR3141A	1.750	44.5	0.188	4.8	1.500	38.1	2.125	54.0	0.563	14.3	500
GR3121A	1.750	44.5	0.250	6.4	1.500	38.1	2.125	54.0	0.625	15.9	400
GR3295A	1.750	44.5	0.375	9.5	1.500	38.1	2.125	54.0	0.750	19.1	300
GR3301A	2.000	50.8	0.094	2.4	1.500	38.1	2.375	60.3	0.375	9.5	450
GR3239A	2.000	50.8	0.188	4.8	1.625	41.3	2.250	57.2	0.750	19.1	600
GR3296A	2.000	50.8	0.250	6.4	1.750	44.5	2.500	63.5	0.531	13.5	300
GR3334A	2.000	50.8	0.250	6.4	1.750	44.5	2.500	63.5	0.560	14.2	300
GR3145A	2.500	63.5	0.063	1.6	2.125	54.0	2.875	73.0	0.438	11.1	300
GR3318A	2.500	63.5	0.250	6.4	2.000	50.8	3.000	76.2	0.563	14.3	200
GR3404A	2.500	63.5	0.250	6.4	2.250	57.2	3.000	76.2	0.625	15.9	175
GR3405A	2.500	63.5	0.328	8.3	2.250	57.2	3.000	76.2	0.719	18.3	175
GR3406A	2.500	63.5	0.375	9.5	2.250	57.2	3.000	76.2	0.750	19.1	175

Metric Hole Grommet



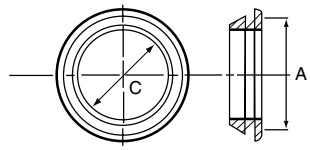
Item No.		Mounting Hole d2	Panel Hole Thickness h				Bulk Pack Qty.
PVC	EPDM	mm	mm	d1	D	H	
498021	498062	5.0	1.0	2.0	8.0	4.0	1000
498022	498063	5.0	1.5	2.0	8.0	4.5	1000
498023	498064	5.0	2.0	2.0	8.0	5.0	1000
498024	498065	5.0	1.0	3.0	8.0	4.0	1000
498025	498066	5.0	1.5	3.0	8.0	4.5	1000
498026	498067	5.0	2.0	3.0	8.0	5.0	1000
498027	498068	7.0	1.5	3.0	10.0	6.0	500
498028	498070	8.0	1.0	4.0	11.0	8.0	500
498029	498071	8.0	2.0	4.0	11.0	6.0	500
498030	498072	8.0	3.0	4.0	11.0	7.0	500
498031	498073	8.0	1.0	6.0	11.0	5.0	500
498032	498074	8.0	2.0	6.0	11.0	6.0	500
—	498075	9.0	1.0	6.0	12.0	5.0	500
—	498076	9.0	1.5	6.0	12.0	5.5	500
—	498077	9.0	2.0	6.0	12.0	6.0	500
—	498078	9.0	3.0	6.0	12.0	7.0	500
—	498079	9.0	4.0	6.0	12.0	8.0	500
498033	498080	10.0	1.0	6.0	14.0	6.0	500
498034	498081	10.0	1.5	6.0	14.0	6.5	500
498035	498082	10.0	2.0	6.0	14.0	7.0	500
498036	498083	10.0	3.0	6.0	14.0	8.0	500
498037	498084	10.0	1.0	8.0	14.0	6.0	500
498038	498085	10.0	1.5	8.0	14.0	6.5	500
498039	498086	10.0	2.0	8.0	14.0	7.0	500
498040	498087	10.0	3.0	8.0	14.0	8.0	500
—	498088	11.0	1.0	8.0	16.0	6.0	250
—	498089	11.0	2.0	8.0	16.0	7.0	250
—	498090	11.0	3.0	8.0	16.0	8.0	250
—	498091	11.0	4.0	8.0	16.0	9.0	250
498041	498092	12.0	1.0	8.0	16.0	6.0	250
498042	498093	12.0	2.0	8.0	16.0	7.0	250
498043	498094	12.0	3.0	8.0	16.0	8.0	250
498044	498095	12.0	4.0	8.0	16.0	9.0	250
498045	498096	12.0	1.0	10.0	16.0	6.0	250
498046	498097	12.0	1.5	10.0	16.0	6.5	250
498047	498098	12.0	2.0	10.0	16.0	7.0	250
498048	498099	12.0	3.0	10.0	16.0	8.0	250
—	498100	14.0	1.0	11.0	18.0	6.0	250
—	498101	14.0	2.0	11.0	18.0	7.0	250
—	498102	14.0	3.0	11.0	18.0	8.0	250
498049	498103	15.0	1.0	11.0	20.0	6.0	250
498050	498104	15.0	2.0	11.0	20.0	7.0	250
498051	498105	15.0	3.0	11.0	20.0	8.0	250
498052	498106	15.0	4.0	11.0	20.0	9.0	250
498053	498107	18.0	1.0	12.0	22.0	6.0	250
498054	498108	18.0	2.0	12.0	22.0	7.0	250
498055	498109	18.0	3.0	12.0	22.0	8.0	250
498056	498110	18.0	4.0	12.0	22.0	9.0	250
498057	498111	22.0	1.0	16.0	27.0	7.0	100
498058	498112	22.0	1.5	16.0	27.0	7.5	100
498059	498113	22.0	2.0	16.0	27.0	8.0	100
498060	498114	22.0	3.0	16.0	27.0	9.0	100
498061	498115	22.0	4.0	16.0	27.0	10.0	100
—	198116	27.0	1.0	21.0	34.0	9.0	50
—	498117	27.0	2.0	21.0	34.0	10.0	50
—	498118	27.0	3.0	21.0	34.0	11.0	50
—	498119	27.0	4.0	21.0	34.0	12.0	50
—	498120	40.0	1.0	31.0	48.0	12.0	25
—	498121	40.0	2.0	31.0	48.0	13.0	25
—	498122	40.0	3.0	31.0	48.0	14.0	25
—	498123	40.0	4.0	31.0	48.0	15.0	25
—	498124	52.0	1.0	41.0	60.0	13.0	10
—	498125	52.0	2.0	41.0	60.0	14.0	10
—	498126	52.0	3.0	41.0	60.0	15.0	10
—	498127	52.0	4.0	41.0	60.0	16.0	10

Specifications:
- Material: See Table
- Color: Black

Features:
- Protects wires, cables, tubing, and hoses
- Installs instantly by simply snapping into hole
- Excellent adhesion, designed to fit standard sheet metal holes
- EPDM is a heat resistant material for use in extreme temperature environments: -40° - 257°F

GROMMETS & BUSHINGS

GRQ/QFG Series
Quick Fit Flexible Grommet

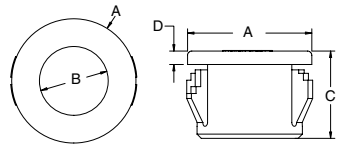


Specifications:
- Material: Elastomer
- Color: Black

Features:
- Protects wires, cables, tubing and hoses
- Quickly snaps into hole

Item No.				Mounting Hole ØA		C ID Ref.		Bulk Pack Qty.
Panel Thickness 0.059 (1.5)	Panel Thickness 0.079 (2.0)	Panel Thickness 0.118 (3.0)	Panel Thickness 0.138 (3.5)	in	mm	in	mm	
16200	16210	16220	—	0.394	10.0	0.236	6.0	5000
QFG-16200	—	QFG-16220	—	0.394	10.0	0.236	6.0	1000
16201	16211	16221	—	0.433	11.0	0.276	7.0	10000
QFG-16201	—	—	—	0.433	11.0	0.276	7.0	1000
16202	16212	16222	—	0.472	12.0	0.315	8.0	10000
—	—	QFG-16222	—	0.472	12.0	0.315	8.0	1000
16203	16213	16223	—	0.551	14.0	0.394	10.0	10000
QFG-16203	—	QFG-16223	—	0.551	14.0	0.394	10.0	1000
16204	16214	16224	—	0.630	16.0	0.472	12.0	10000
QFG-16204	—	QFG-16224	—	0.630	16.0	0.472	12.0	1000
16205	16215	16225	—	0.709	18.0	0.551	14.0	10000
QFG-16205	—	—	—	0.709	18.0	0.551	14.0	1000
—	—	—	QFG-1	0.728-0.787	18.5-20.0	0.512	13.0	1000
16206	16216	16226	—	0.787	20.0	0.630	16.0	4000
16207	16217	16227	—	0.866	22.0	0.709	18.0	4000
QFG-16207	—	—	—	0.866	22.0	0.709	18.0	1000
—	—	—	QFG-2	0.984-1.024	25.0-26.0	0.709	18.0	1000
16208	16218	16228	—	1.024	26.0	0.866	22.0	4000
—	—	QFG-16228	—	1.024	26.0	0.866	22.0	1000
16209	16219	16229	—	1.102	28.0	0.945	24.0	2000
QFG-16209	—	QFG-16229	—	1.102	28.0	0.945	24.0	1000

PGSB/BSI Series
Closed Insulation Bushing



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Easy to snap into common panel thicknesses
- Protects wires, cables and tubing from sharp edges of sheet metal holes

Item No.	Approval	Ø Mounting Hole		Panel Thickness		OD A		ID B		Overall Height C		Head Height D		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
PGSB-0305		0.189	4.8	0.063 - 0.067	1.6 - 1.7	0.260	6.5	0.125	3.2	0.240	6.0	0.051	1.4	1000
PGSB-1		0.250	6.4	0.062	1.6	0.312	7.9	0.125	3.2	0.312	7.9	0.063	1.6	1000
PGSB-2		0.312	7.9	0.062	1.6	0.375	9.5	0.187	4.7	0.312	7.9	0.063	1.6	1000
PGSB-3		0.312	7.9	0.062	1.6	0.375	9.5	0.240	6.1	0.237	6.0	0.050	1.3	1000
PGSB-4		0.375	9.5	0.031 - 0.125	0.8 - 3.2	0.468	11.9	0.187	4.7	0.406	10.3	0.055	1.4	1000
PGSB-5		0.375	9.5	0.031 - 0.125	0.8 - 3.2	0.468	11.9	0.250	6.4	0.406	10.3	0.055	1.4	1000
PGSB-0710		0.394	10.0	0.031 - 0.125	0.8 - 1.6	0.472	12.0	0.284	7.2	0.260	6.6	0.051	1.3	1000
PGSB-6		0.437	11.1	0.031 - 0.125	0.8 - 3.2	0.531	13.5	0.270	6.9	0.406	10.3	0.055	1.4	500
PGSB-7		0.437	11.1	0.031 - 0.125	0.8 - 3.2	0.531	13.5	0.312	7.9	0.406	10.3	0.055	1.4	500
PGSB-8		0.437	11.1	0.031 - 0.125	0.8 - 3.2	0.531	13.5	0.243	6.4	0.406	10.3	0.055	1.4	500
PGSB-9		0.468	11.9	0.062	1.6	0.531	13.5	0.343	8.7	0.250	6.4	0.050	1.3	500
PGSB-10		0.500	12.7	0.031 - 0.125	0.8 - 3.2	0.578	14.7	0.250	6.4	0.406	10.3	0.063	1.6	500
PGSB-11		0.500	12.7	0.031 - 0.125	0.8 - 3.2	0.578	14.7	0.312	7.9	0.406	10.3	0.063	1.6	500
PGSB-12		0.500	12.7	0.062	1.6	0.562	14.3	0.375	9.5	0.250	6.4	0.063	1.6	500
PGSB-1013		0.512	13.0	0.031 - 0.118	0.8	0.591	15.0	0.402	10.2	0.354	9.0	0.051	1.3	500
PGSB-13		0.531	13.5	0.062	1.6	0.593	15.1	0.406	10.3	0.250	6.4	0.063	1.6	500
PGSB-14		0.562	14.3	0.031 - 0.125	0.8 - 3.2	0.656	16.7	0.312	7.9	0.406	10.3	0.063	1.6	500
PGSB-15		0.562	14.3	0.031 - 0.125	0.8 - 3.2	0.656	16.7	0.391	9.9	0.406	10.3	0.063	1.6	500
PGSB-16		0.562	14.3	0.031 - 0.125	0.8 - 3.2	0.656	16.7	0.437	11.1	0.406	10.3	0.063	1.6	500
PGSB-17		0.625	15.9	0.031 - 0.125	0.8 - 3.2	0.718	18.2	0.250	6.4	0.406	10.3	0.063	1.6	500
PGSB-18		0.625	15.9	0.031 - 0.125	0.8 - 3.2	0.718	18.2	0.437	11.1	0.406	10.3	0.063	1.6	500
PGSB-19		0.625	15.9	0.062	1.6	0.703	17.9	0.500	12.7	0.250	6.4	0.063	1.6	500
PGSB-1316		0.630	16.0	0.055 - 0.139	1.4 - 3.5	0.709	18.0	0.504	12.8	0.413	10.5	0.059	1.5	500
PGSB-20		0.687	17.5	0.031 - 0.125	0.8 - 3.2	0.781	19.8	0.500	12.7	0.406	10.3	0.063	1.6	200
PGSB-21		0.687	17.5	0.031 - 0.125	0.8 - 3.2	0.781	19.8	0.562	14.3	0.406	10.3	0.063	1.6	200
PGSB-1519		0.748	19.0	0.039 - 0.130	1.3	0.854	21.7	0.602	15.3	0.433	11.0	0.059	1.5	200
PGSB-22		0.750	19.1	0.031 - 0.125	0.8 - 3.2	0.843	21.4	0.500	12.7	0.406	10.3	0.063	1.6	200
PGSB-23		0.750	19.1	0.031 - 0.125	0.8 - 3.2	0.843	21.4	0.562	14.3	0.406	10.3	0.063	1.6	200

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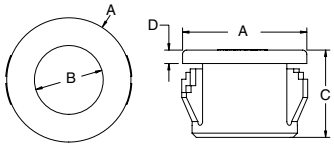
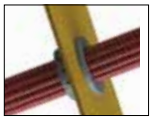
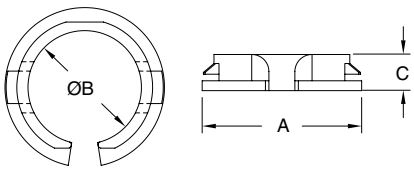
PGSB/BSI Series (continued)
Closed Insulation Bushing





Item No.	Approval	Ø Mounting Hole in	Ø Mounting Hole mm	Panel Thickness in	Panel Thickness mm	OD A in	OD A mm	ID B in	ID B mm	Overall Height C in	Overall Height C mm	Head Height D in	Head Height D mm	Bulk Pack Qty.
PGSB-24		0.750	19.1	0.062	1.6	0.828	21.0	0.625	15.9	0.250	6.4	0.063	1.6	200
PGSB-25		0.781	19.8	0.062	1.6	0.859	21.8	0.625	15.9	0.250	6.4	0.063	1.6	200
PGSB-1822		0.866	22.0	0.035 - 0.091	0.9 - 2.3	0.976	24.8	0.717	18.2	0.453	11.5	0.059	1.5	500
PGSB-26		0.875	22.2	0.031 - 0.125	0.8 - 3.2	0.953	24.2	0.500	12.7	0.453	11.5	0.063	1.6	200
PGSB-27		0.875	22.2	0.031 - 0.125	0.8 - 3.2	0.953	24.2	0.562	14.3	0.453	11.5	0.063	1.6	200
PGSB-28		0.875	22.2	0.031 - 0.125	0.8 - 3.2	0.953	24.2	0.625	15.9	0.453	11.5	0.063	1.6	200
PGSB-29		0.875	22.2	0.031 - 0.125	0.8 - 3.2	0.953	24.2	0.687	17.5	0.453	11.5	0.063	1.6	200
PGSB-30		0.875	22.2	0.062	1.6	0.937	23.8	0.750	19.1	0.250	6.4	0.063	1.6	200
PGSB-31		1.000	25.4	0.031 - 0.125	0.8 - 3.2	1.125	28.6	0.766	19.5	0.453	11.5	0.063	1.6	200
PGSB-32		1.097	27.9	0.031 - 0.125	0.8 - 3.2	1.218	31.0	0.812	20.6	0.453	11.5	0.063	1.6	100
PGSB-33		1.097	27.9	0.031 - 0.125	0.8 - 3.2	1.218	31.0	0.875	22.2	0.453	11.5	0.063	1.6	100
PGSB-34		1.097	27.9	0.031 - 0.125	0.8 - 3.2	1.218	31.0	0.937	23.8	0.453	11.5	0.063	1.6	100
PGSB-2428		1.102	28.0	0.039 - 0.130	13.3	1.240	31.5	0.945	24.0	0.441	11.2	0.059	1.5	200
PGSB-2530		1.181	30.0	0.039 - 0.122	13.1	1.319	33.5	0.984	25.0	0.453	11.5	0.071	1.8	100
PGSB-35		1.250	31.8	0.031 - 0.125	0.8 - 3.2	1.312	33.3	0.937	23.8	0.453	11.5	0.063	1.6	100
PGSB-2634		1.347	34.2	0.039 - 0.126	13.2	1.496	38.0	1.031	26.2	0.453	11.5	0.059	1.5	100
PGSB-36		1.375	34.9	0.031 - 0.125	0.8 - 3.2	1.468	37.3	1.000	25.4	0.453	11.5	0.063	1.6	100
PGSB-37		1.500	38.1	0.031 - 0.125	0.8 - 3.2	1.609	40.9	1.062	27.0	0.453	11.5	0.063	1.6	100
PGSB-38		1.500	38.1	0.031 - 0.125	0.8 - 3.2	1.609	40.9	1.125	28.6	0.453	11.5	0.063	1.6	100
PGSB-39		1.500	38.1	0.031 - 0.125	0.8 - 3.2	1.609	40.9	1.312	33.3	0.453	11.5	0.063	1.6	100
PGSB-40		1.750	44.5	0.031 - 0.125	0.8 - 3.2	1.875	47.6	1.375	34.9	0.453	11.5	0.063	1.6	100
PGSB-41		2.000	50.8	0.031 - 0.125	0.8 - 3.2	2.125	54.0	1.640	41.7	0.453	11.5	0.063	1.6	100
PGSB-42		2.000	50.8	0.031 - 0.125	0.8 - 3.2	2.125	54.0	1.750	44.5	0.453	11.5	0.063	1.6	100
PGSB-43		2.250	57.2	0.250	6.4	2.480	63.0	1.850	47.0	0.720	18.2	0.063	1.6	100
BSI047A		3.000	76.2	0.250	6.4	3.160	80.3	2.470	62.7	.720	18.2	—	—	350

PGSA Series
Shallow Open Insulation Bushing



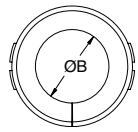
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

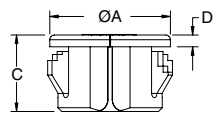
Features:
- Molded with shallow overall height for applications with limited space
- Open design allows bushing to be assembled into holes that already contain a bundle
- Protects wires, cables, and tubing from sharp edges of sheet metal holes

Item No.	Approval	Mounting Hole Ø in	Mounting Hole Ø mm	Panel Thickness Range in	Panel Thickness Range mm	OD A Ref. in	OD A Ref. mm	ID B in	ID B mm	Overall Height C in	Overall Height C mm	Bulk Pack Qty.
PGSA-0407A		0.276	7.0	0.016 - 0.039	0.4 - 1.0	0.410	10.4	0.190	4.8	0.200	5.0	1000
PGSA-1013A		0.512	13.0	0.039 - 0.059	1.0 - 1.5	0.640	16.2	0.360	9.2	0.210	5.3	500
PGSA-1316A		0.630	16.0	0.039 - 0.055	1.0 - 1.4	0.760	19.4	0.480	12.2	0.210	5.4	500
PGSA-1519A		0.748	19.0	0.039 - 0.059	1.0 - 1.5	0.890	22.7	0.560	14.3	0.220	5.7	500
PGSA-1822A		0.866	22.0	0.031 - 0.063	0.8 - 1.6	1.000	25.5	0.690	17.6	0.220	5.6	500
PGSA-2024A1		0.945	24.0	0.031 - 0.047	0.8 - 1.2	1.060	27.0	0.770	19.5	0.210	5.3	500
PGSA-2024A		0.945	24.0	0.039 - 0.063	1.0 - 1.6	1.060	27.0	0.770	19.5	0.210	5.3	500
PGSA-2327A		1.067	27.1	0.016 - 0.039	0.4 - 1.0	1.380	35.1	0.900	22.9	0.240	6.0	200
PGSA-2529A		1.142	29.0	0.016 - 0.043	0.4 - 1.1	1.380	35.1	0.970	24.5	0.280	7.0	200

BUSHINGS

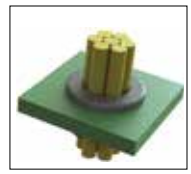
PGSB-A Series
Standard Open Insulation Bushing





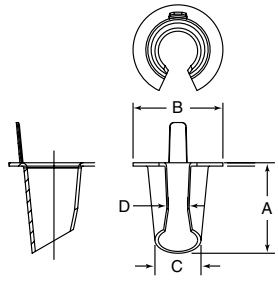
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Easy to push in design locks into place at common panel thicknesses
- Split design allows bushing to be assembled into holes that already contained a bundle
- Protects wires, cables, and tubing from sharp edges of sheet metal holes



Item No.	Approval	Mounting Hole in	Mounting Hole mm	Panel Thickness Range in	Panel Thickness Range mm	OD A Ref. in	OD A Ref. mm	ID B in	ID B mm	Overall Height C in	Overall Height C mm	Head Height D in	Head Height D mm	Bulk Pack Qty.
PGSB-0609A		0.375	9.5	0.028 - 0.067	0.7 - 1.7	0.450	11.4	0.260	6.6	0.260	6.5	0.051	1.3	1000
PGSB-1A		0.375	9.5	0.031 - 0.125	0.8 - 3.2	0.420	10.7	0.265	6.7	0.390	9.9	0.051	1.3	1000
PGSB-2A		0.437	11.1	0.031 - 0.125	0.8 - 3.2	0.50	12.7	0.312	7.9	0.406	10.3	0.063	1.6	1000
PGSB-1013A		0.512	13.0	0.031 - 0.138	0.8 - 3.5	0.590	14.9	0.350	9.0	0.410	10.5	0.059	1.5	500
PGSB-3A		0.562	14.3	0.031 - 0.125	0.8 - 3.2	0.640	16.3	0.390	9.9	0.406	10.3	0.063	1.6	500
PGSB-1216A		0.650	16.5	0.028 - 0.130	0.7 - 3.3	0.730	18.6	0.480	12.3	0.390	10.0	0.039	1.0	500
PGSB-1316A		0.630	16.0	0.047 - 0.138	1.2 - 3.5	0.710	18.0	0.410	10.5	0.410	10.5	0.063	1.6	500
PGSB-1519A		0.748	19.0	0.047 - 0.130	1.2 - 3.3	0.810	20.6	0.570	14.5	0.430	11.0	0.051	1.3	200
PGSB-1822A		0.866	22.0	0.039 - 0.138	1.0 - 3.5	0.980	24.8	0.680	17.3	0.450	11.5	0.063	1.6	200
PGSB-9A		0.984	25.0	0.031 - 0.118	0.8 - 3.0	1.039	26.4	0.803	20.4	0.406	10.3	0.063	1.6	200
PGSB-4A		1.000	25.4	0.031 - 0.125	0.8 - 3.2	1.047	26.6	0.812	20.6	0.406	10.3	0.063	1.6	200
PGSB-5A		1.093	27.8	0.031 - 0.125	0.8 - 3.2	1.156	29.4	0.875	22.2	0.406	10.3	0.063	1.6	200
PGSB-6A		1.250	31.8	0.031 - 0.125	0.8 - 3.2	1.343	34.1	1.046	26.6	0.406	10.3	0.063	1.6	200
PGSB-7A		1.375	34.9	0.031 - 0.125	0.8 - 3.2	1.468	37.3	1.171	29.7	0.406	10.3	0.063	1.6	200
PGSB-8A		1.500	38.1	0.031 - 0.125	0.8 - 3.2	1.578	40.1	1.250	31.7	0.421	10.7	0.063	1.6	200

ASB Series
Armor Bushing

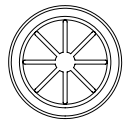


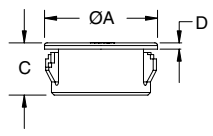
Specifications:
- Material: Polypropylene
- Color: Red

Features:
- Fits armored cable and flexible metal conduit sizes
- Features high dielectric strength and assures insulation on all sharp edges

Item No.	Approvals	Size	A in	A mm	B in	B mm	C ni	C mm	D in	D mm	Cable Size	Trade Size in	Bulk Pack Qty.
ASB0A		0	0.560	14.22	0.671	17.04	0.380	9.650	0.312	7.92	14/2, 14/3, 12/2	5/16	30000
ASB1A		1	0.650	16.51	0.671	17.04	0.450	11.43	0.312	7.92	14/4, 12/3, 6/1, 4/1	3/8	20000
ASB2A		2	0.610	15.49	0.859	21.82	0.580	14.73	0.125	3.18	12/4, 10/2, 10/3, 2/1	7/16	15000
ASB3A		3	0.670	17.02	1.046	26.57	0.790	20.07	0.109	2.77	10/4, 8/2, 8/3, 1/1	1/2	7500
ASB4A		4	0.830	21.08	1.266	32.15	1.000	25.40	0.156	3.96	8/4, 6/4, 6/3, 6/2, 4/3, 4/2	3/4	4000

PGSD Series
Universal Bushing



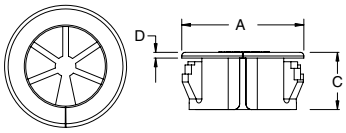


Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:
- Absorbs vibration and cushions and insulates bundles

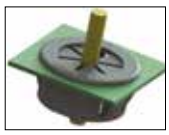
Item No.	Approval	Mounting Hole in	Mounting Hole mm	Max Panel Thickness in	Max Panel Thickness mm	OD A in	OD A mm	Max ID in	Max ID mm	Overall Height C in	Overall Height C mm	Head Height D in	Head Height D mm	Bulk Pack Qty.
PGSD-1		0.500	12.7	0.062	1.8	0.600	15.2	0.312	7.9	0.250	6.4	0.063	1.6	500
PGSD-5		0.500	12.7	0.125	3.2	0.600	15.2	0.312	7.9	0.385	9.8	0.041	1.0	500
PGSD-2		0.625	15.9	0.062	1.8	0.729	18.5	0.437	11.1	0.250	6.4	0.063	1.6	500
PGSD-6		0.625	15.9	0.125	3.2	0.729	18.5	0.437	11.1	0.406	10.3	0.063	1.6	500
PGSD-3		0.750	19.1	0.062	1.8	0.844	21.4	0.500	12.7	0.250	6.4	0.063	1.6	200
PGSD-7		0.750	19.1	0.125	3.2	0.844	21.4	0.500	12.7	0.390	9.9	0.047	1.2	200
PGSD-4		0.875	22.2	0.062	1.8	0.937	23.8	0.560	14.2	0.250	6.4	0.063	1.6	200
PGSD-8		0.875	22.2	0.125	3.2	0.937	23.8	0.560	14.2	0.453	11.5	0.063	1.6	200
PGSD-9		1.000	25.4	0.125	3.2	1.063	27.0	0.750	19.1	0.453	11.5	0.063	1.6	200
PGSD-10		1.375	34.9	0.125	3.2	1.490	37.8	1.000	25.4	0.453	11.5	0.063	1.6	100
PGSD-11		1.500	38.1	0.125	3.2	1.609	40.9	1.062	27.0	0.450	11.4	0.059	1.5	100

PGSC Series
Open Universal Bushing



Specifications:
- Material: UL94V-2 Nylon 6/6
- Color: Black

Features:
- Easy to push in design locks into place at common panel thicknesses
- Open design allows bushing to be assembled into holes that already contain a bundle
- Adjust to accept various diameters and shapes

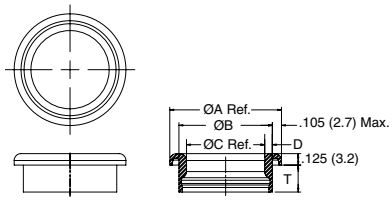


Item No.	Approval	Mounting Hole in	Mounting Hole mm	Max Panel Thickness in	Max Panel Thickness mm	OD A in	OD A mm	Max ID in	Max ID mm	Overall Height C in	Overall Height C mm	Head Height D in	Head Height D mm	Bulk Pack Qty.
PGSC-1319A		0.748 - 0.752	19.0 - 19.1	0.031 - 0.118	0.8 - 3.0	0.858	21.8	0.500	12.7	0.390	9.9	0.039	1.0	500
PGSC-1422A		0.874 - 0.882	22.2 - 22.4	0.031 - 0.118	0.8 - 3.0	0.937	23.8	0.563	14.3	0.453	11.5	0.039	1.0	200
PGSC-1926A		1.000 - 1.004	25.4 - 25.5	0.031 - 0.118	0.8 - 3.0	1.063	27.0	0.748	19.0	0.453	11.5	0.039	1.0	200
PGSC-2128A		1.095 - 1.102	27.8 - 28.0	0.031 - 0.118	0.8 - 3.0	1.161	29.5	0.815	20.7	0.453	11.5	0.039	1.0	200

GFA Series
NAS1368 Flip Grommet

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Light Green

Features:
- Installed by inserting the “un-flipped” grommet into the hole (forming dies - not supplied by Essentra - on each side of the hole are pressed together until the grommet “flips” over itself, creating a flange on both sides of the hole)
- The dies can be attached to a toggle type clamp, a pneumatic tool, or a bolt and nut through the center
- Meets NAS 1368 Standard
- Protects wires, cable, and tubing passing through holes

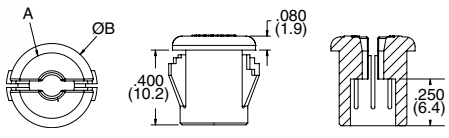


Item No.	NAS Part No.	Ø Mounting Hole in	Ø Mounting Hole mm	Max Recommended Panel Thickness in	Max Recommended Panel Thickness mm	NAS1368 Panel Thickness Range in	NAS1368 Panel Thickness Range mm	T in	T mm	A Ref. in	A Ref. mm	B in	B mm	C Ref. in	C Ref. mm	D in	D mm	Bulk Pack Qty.
GFA-N4A	NAS1368-N4A	0.375	9.5	0.030	0.8	0.025 - 0.080	0.6 - 2.0	0.235	6.0	0.567	14.4	0.367	9.3	0.251	6.4	0.058	1.5	100
GFA-N4B	NAS1368-N4B	0.375	9.5	0.100	2.5	0.081 - 0.140	2.1 - 3.6	0.295	7.5	0.567	14.4	0.367	9.3	0.251	6.4	0.058	1.5	100
GFA-N6A	NAS1368-N6A	0.500	12.7	0.030	0.8	0.025 - 0.080	0.6 - 2.0	0.235	6.0	0.692	17.6	0.492	12.5	0.376	9.6	0.058	1.5	100
GFA-N6B	NAS1368-N6B	0.500	12.7	0.090	2.3	0.081 - 0.140	2.1 - 3.6	0.295	7.5	0.692	17.6	0.492	12.5	0.376	9.6	0.058	1.5	100
GFA-N6C	NAS1368-N6C	0.500	12.7	0.160	4.1	0.141 - 0.200	3.6 - 5.1	0.360	9.1	0.692	17.6	0.492	12.5	0.376	9.6	0.058	1.5	100
GFA-N8A	NAS1368-N8A	0.625	15.9	0.030	0.8	0.025 - 0.080	0.6 - 2.0	0.235	6.0	0.815	20.7	0.615	15.6	0.499	12.7	0.058	1.5	100
GFA-N8B	NAS1368-N8B	0.625	15.9	0.090	2.3	0.081 - 0.140	2.1 - 3.6	0.295	7.5	0.815	20.7	0.615	15.6	0.499	12.7	0.058	1.5	100
GFA-N10A	NAS1368-N10A	0.781	19.8	0.030	0.8	0.025 - 0.080	0.6 - 2.0	0.235	6.0	0.971	24.7	0.771	19.6	0.605	15.4	0.083	2.1	100
GFA-N10B	NAS1368-N10B	0.781	19.8	0.080	2.0	0.081 - 0.140	2.1 - 3.6	0.295	7.5	0.971	24.7	0.771	19.6	0.605	15.4	0.083	2.1	100
GFA-N10D	NAS1368-N10D	0.781	19.8	0.210	5.3	0.201 - 0.250	5.1 - 6.4	0.420	10.7	0.971	24.7	0.771	19.6	0.605	15.4	0.083	2.1	100
GFA-N12A	NAS1368-N12A	0.906	23.0	0.020	0.5	0.025 - 0.080	0.6 - 2.0	0.235	6.0	1.096	27.8	0.896	22.8	0.730	18.5	0.083	2.1	100
GFA-N12B	NAS1368-N12B	0.906	23.0	0.070	1.8	0.081 - 0.140	2.1 - 3.6	0.295	7.5	1.096	27.8	0.896	22.8	0.730	18.5	0.083	2.1	100
GFA-N14A	NAS1368-N14A	1.031	26.2	0.020	0.5	0.025 - 0.080	0.6 - 2.0	0.235	6.0	1.221	31.0	1.021	25.9	0.855	21.7	0.083	2.1	100
GFA-N14B	NAS1368-N14B	1.031	26.2	0.070	1.8	0.081-0.140	2.1-3.6	0.295	7.5	1.221	31.0	1.021	25.9	0.855	21.7	0.083	2.1	100

SB Series
Snub Bushing

Specifications:
- Material: UL94V-2 Nylon 6/6
- Color: Black

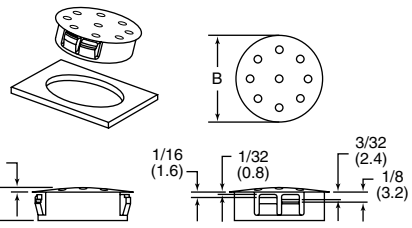
Features:
- Bushing opens to accept cable then closes firmly when installed into hole
- Provides insulation and slight strain relief



Part Number	Panel Hole in	Panel Hole mm	Max Panel Thickness in	Max Panel Thickness mm	ID in	ID mm	Ø A in	Ø A mm	Overall OD B in	Overall OD B mm	Bulk Pack Qty.
SB-1	0.375	9.5	0.125	3.2	0.150	3.8	0.360	9.1	0.450	11.4	500
SB-2	0.437	11.1	0.125	3.2	0.220	5.6	0.430	10.9	0.550	14.0	500
SB-3	0.500	12.7	0.125	3.2	0.280	7.1	0.490	12.4	0.630	16.0	500

GROMMETS & BUSHINGS

PLV Series
Vented Locking Plug



Specifications:
- Material: UL94 V-2 Heat-Stabilized Nylon
- Color: Black

Features:
- Each part is designed to lock into multiple standard sheet metal thicknesses (1/64 to 1/8)
- Provides a clean and easy way to close optional wiring or production access holes
- Vents allow heat and emissions to escape

Item No.	Approvals	Ø Hole		Max Panel Thickness		Ø Head B		Thickness C		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	
62MP0750V		0.750	19.1	0.125	3.2	0.906	23.0	0.406	10.3	1000
62MP0875V		0.875	22.2	0.125	3.2	1.016	25.8	0.453	11.5	1000
62MP1000V		1.000	25.4	0.125	3.2	1.203	30.6	0.453	11.5	500

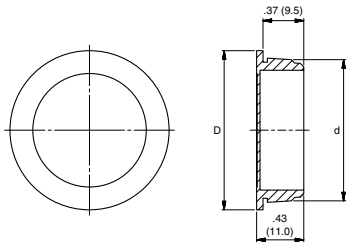
GR67/LTG Series
IP67 Liquid Tight Grommet

Specifications:
- Material: EPDM
- Color: Grey (Black for LTG-199017)

Features:
- Confirms to IP67 standard for watertight seal
- Acts as a blanking plug until cable is installed
- Designed to withstand vibration

Item No.	Panel Hole			Panel Thickness		Cable Size		Bulk Pack Qty.
	Fits	in	mm	in	mm	in	mm	
LTG-199017	PG-7	0.492	12.5	0.020 - 0.079	0.5 - 2.0	0.138 - 0.197	3.5 - 5.0	1000
GR67464121A	PG-7	0.492	12.5	0.020 - 0.079	0.5 - 2.0	0.138 - 0.197	3.5 - 5.0	1000
GR6739897A	PG-9	0.630	16.0	0.039 - 0.157	1.0 - 4.0	0.197 - 0.276	5.0 - 7.0	1000
GR6734715A	PG-11	0.748	19.0	0.039 - 0.157	1.0 - 4.0	0.276 - 0.394	7.0 - 10.0	1000
GR6734716A	PG-16	0.906	23.0	0.039 - 0.157	1.0 - 4.0	0.394 - 0.551	10.0 - 14.0	1000
GR6743021A	PG-21	1.142	29.0	0.039 - 0.157	1.0 - 4.0	0.551 - 0.787	14.0 - 20.0	1000
GR67464122A	PG-29	1.496	38.0	0.039 - 0.157	1.0 - 4.0	0.787 - 1.024	20.0 - 26.0	250
GR67464123A	PG-36	1.890	48.0	0.039 - 0.157	1.0 - 4.0	1.024 - 1.378	26.0 - 35.0	250
GR67M16A	M16	0.650	16.5	0.039 - 0.157	1.0 - 4.0	0.197 - 0.354	5.0 - 9.0	1000
GR67M20A	M20	0.807	20.5	0.039 - 0.157	1.0 - 4.0	0.276 - 0.512	7.0 - 13.0	1000
GR67M25A	M25	1.004	25.5	0.059 - 0.157	1.5 - 4.0	0.394 - 0.670	10.0 - 17.0	1000
GR67M32A	M32	1.280	32.5	0.039 - 0.157	1.0 - 4.0	0.551 - 0.787	14.0 - 20.0	500
GR67M40A	M40	1.594	40.5	0.059 - 0.157	1.5 - 4.0	0.750 - 1.024	19.0 - 26.0	250
GR67M50A	M50	1.988	50.5	0.039 - 0.157	1.0 - 4.0	1.024 - 1.338	26.0 - 34.0	250

Push In Flexible Grommet

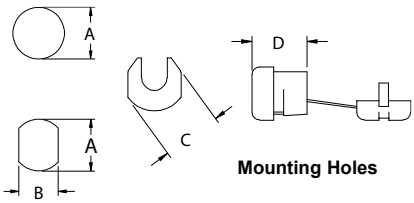


Specifications:
- Material:Polyethylene and TPE
- Color: Grey

Features:
- Dust tight
- Quick and easy mounting
- For enclosures with more than .079 (2.0) thickness

Item No.	Ø d Hole		D OD		Ø Cable Range		Bulk Pack Qty.
	in	mm	in	mm	in	mm	
494632	0.630	16.0	0.835	21.2	0.039 - 0.354	1.0 - 9.0	100
494633	0.787	20.0	0.992	25.2	0.039 - 0.512	1.0 - 13.0	100
494634	0.984	25.0	1.189	30.2	0.039 - 0.709	1.0 - 18.0	100
494635	1.260	32.0	1.465	37.2	0.039 - 0.984	1.0 - 25.0	50

SRB/BSR Series
Strain Relief Bushing



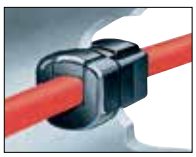
Mounting Holes

Specifications:

- Material: UL94 V-2 Nylon
- Color: Black

Features:

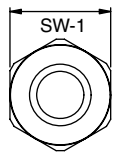
- Protects electronic products by absorbing the forces of pull, push and twist that may be exerted on a flexible power cord
- Securely protects cable at entry point
- To install: Position bushing on cable, press ends of bushing together with installation tool (SRPL-2) and push into hole
- Can be mounted in either a round hole or anti-rotation hole

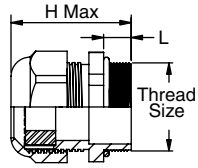


Item No.	Approvals		Cross Section	Cable Type	Gauge (AWG)	Cable Size in	Strap Type	Ø A in	Ø A mm	Flats B in	Flats B mm	Max Panel in	Max Panel mm	Length D in	Length D mm	Width C Ref. in	Width C Ref. mm	Bulk Pack Qty.
SRB-F-1		—	Flat	SPT-1	18/2	0.120 - 0.220	Y	0.375	9.5	0.343	8.7	0.062	1.6	0.406	10.3	0.425	10.8	1000
SRB-F-3		—	Flat	SPT-1	18/2	0.120 - 0.220	Y	0.433	11.1	0.390	9.9	0.062	1.6	0.406	10.3	0.476	12.1	1000
			Flat	SPT-1	18/3	0.120 - 0.300	Y	0.500	12.7	0.465	11.8	0.100	2.5	0.406	10.3	0.578	14.7	1000
23MP04N40			Flat	SPT-2	18/2	0.120 - 0.300	Y	0.500	12.7	0.465	11.8	0.100	2.5	0.406	10.3	0.578	14.7	1000
			Flat	HPN	18/2	0.120 - 0.300	Y	0.500	12.7	0.465	11.8	0.100	2.5	0.406	10.3	0.578	14.7	1000
			Flat	SPT-1	18/3	0.120 - 0.300	Y	0.500	12.7	0.465	11.8	0.156	4.0	0.406	10.3	0.578	14.7	1000
23MP04K40			Flat	SPT-2	18/2	0.120 - 0.300	Y	0.500	12.7	0.465	11.8	0.156	4.0	0.406	10.3	0.578	14.7	1000
			Flat	HPN	18/3	0.120 - 0.300	Y	0.500	12.7	0.465	11.8	0.156	4.0	0.406	10.3	0.578	14.7	1000
		—	Flat	SPT-1	18/2	0.120 - 0.220	Y	0.500	12.7	0.390	9.9	0.100	2.5	0.406	10.3	0.492	12.5	1000
SRB-F-6		—	Flat	SPT-1	18/2	0.120 - 0.220	Y	0.500	13.1	0.390	9.9	0.100	2.5	0.406	10.3	0.492	12.5	1000
		—	Flat	SPT-1	18/2	0.120 - 0.220	Y	0.516	12.7	0.390	9.9	0.100	2.5	0.406	10.3	0.492	12.5	1000
		—	Flat	SPT-1	18/2	0.120 - 0.220	Y	0.516	13.1	0.390	9.9	0.100	2.5	0.406	10.3	0.492	12.5	1000
SRB-F-8		—	Flat	SPT-2	—	0.146 - 0.299	Y	0.500	12.7	0.465	11.8	0.062	1.6	0.406	10.3	0.547	13.9	1000
		—	Flat	SPT-2	—	0.150 - 0.299	Y	0.516	13.1	0.465	11.8	0.062	1.6	0.406	10.3	0.547	13.9	1000
SRB-F-9		—	Flat	SPT-2	—	0.146 - 0.299	Y	0.500	12.7	0.465	11.8	0.100	2.5	0.406	10.3	0.547	13.9	1000
		—	Flat	SPT-2	—	0.150 - 0.299	Y	0.516	13.1	0.465	11.8	0.100	2.5	0.406	10.3	0.547	13.9	1000
			Flat	SPT-2	18/3	0.150 - 0.400	Y	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
			Flat	HPN	16/2	0.150 - 0.400	Y	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
23MP04K10			Flat	SPT-2	16/2	0.160 - 0.300	Y	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
			Flat	HPN	18/2	0.150 - 0.280	Y	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
			Flat	SPT-2	18/2	0.150 - 0.280	Y	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
			Round	SV	18/2	0.250	Y	0.500	12.7	0.450	11.4	0.062	1.6	0.438	11.1	0.578	14.7	1000
			Round	SV	18/2	0.250	Y	0.500-0.515	12.7-13.1	0.450	11.4	0.062	1.6	0.438	11.1	0.578	14.7	1000
23MP05N40			Round	SV	18/3	0.255	Y	0.500	12.7	0.450	11.4	0.062	1.6	0.438	11.1	0.578	14.7	1000
			Round	SV	18/3	0.255	Y	0.500-0.515	12.7-13.1	0.450	11.4	0.062	1.6	0.438	11.1	0.578	14.7	1000
			Round	HPD	18/2	0.290	Y	0.500	12.7	0.450	11.4	0.062	1.6	0.438	11.1	0.578	14.7	1000
			Round	HPD	18/2	0.290	Y	0.500-0.515	12.7-13.1	0.450	11.4	0.062	1.6	0.438	11.1	0.578	14.7	1000
			Round	SV	18/2	0.250	Y	0.500	12.7	0.450	11.4	0.100	2.5	0.438	11.1	0.578	14.7	1000
			Round	SV	18/2	0.250	Y	0.500-0.515	12.7-13.1	0.450	11.4	0.100	2.5	0.438	11.1	0.578	14.7	1000
23MP05P40			Round	SV	18/3	0.255	Y	0.500	12.7	0.450	11.4	0.100	2.5	0.438	11.1	0.578	14.7	1000
			Round	SV	18/3	0.255	Y	0.500-0.515	12.7-13.1	0.450	11.4	0.100	2.5	0.438	11.1	0.578	14.7	1000
			Round	HPD	16/2	0.290	Y	0.500	12.7	0.450	11.4	0.100	2.5	0.438	11.1	0.578	14.7	1000
			Round	HPD	16/2	0.290	Y	0.500-0.515	12.7-13.1	0.450	11.4	0.100	2.5	0.438	11.1	0.578	14.7	1000
SRB-R-1		—	Round	SVI	—	0.252	Y	0.500	12.7	0.453	11.5	0.062	1.6	0.437	11.1	0.559	14.2	1000
		—	Round	SVT	—	0.291	Y	0.516	13.1	0.453	11.5	0.062	1.6	0.437	11.1	0.559	14.2	1000
SRB-R-2		—	Round	SVI	—	0.252	Y	0.500	12.7	0.453	11.5	0.100	2.5	0.437	11.1	0.559	14.2	1000
		—	Round	SVT	—	0.291	Y	0.516	13.1	0.453	11.5	0.100	2.5	0.437	11.1	0.559	14.2	1000
SRB-R-3		—	Round	SJT	18/3	0.299	Y	0.626	15.9	0.551	14.0	0.062	1.6	0.580	14.7	0.701	17.8	500
SRB-R-4		—	Round	SJT	18/3	0.299	Y	0.626	15.9	0.551	14.0	0.126	3.2	0.580	14.7	0.693	17.6	500
23MP06N40			Round	SJT	18/2	0.300	Y	0.625	15.88	0.550	14.0	0.062	1.6	0.580	14.7	0.703	17.9	1000
			Round	SJO	18/2	0.300	Y	0.625	15.88	0.550	14.0	0.062	1.6	0.580	14.7	0.703	17.9	1000
			Round	SJ	18/2	0.300	Y	0.500	12.7	0.456	11.6	0.090	2.3	0.437	11.1	0.563	14.3	1000
23MP06W10			Round	SJT	18/2	0.300	Y	0.500	12.7	0.456	11.6	0.090	2.3	0.437	11.1	0.563	14.3	1000
			Round	SJO	18/2	0.300	Y	0.500	12.7	0.456	11.6	0.090	2.3	0.437	11.1	0.563	14.3	1000
SRB-R-7		—	Round	SJT	16/3	0.323 - 0.362	Y	0.626	15.9	0.551	14.0	0.062	1.6	0.580	14.7	0.701	17.8	500
SRB-R-8		—	Round	SJT	16/3	0.323 - 0.362	Y	0.626	15.9	0.551	14.0	0.126	3.2	0.580	14.7	0.681	17.3	500
			Round	SJ	18/3	0.325 - 0.360	Y	0.650	16.5	0.550	14.0	0.125	3.2	0.580	14.7	0.703	17.9	500
23MP06P34			Round	SJT	16/3	0.325 - 0.360	Y	0.650	16.5	0.550	14.0	0.125	3.2	0.580	14.7	0.703	17.9	500
			Round	SJT	18/3	0.325 - 0.360	Y	0.650	16.5	0.550	14.0	0.125	3.2	0.580	14.7	0.703	17.9	500
			Round	SJO	18/3	0.325 - 0.360	Y	0.650	16.5	0.550	14.0	0.125	3.2	0.580	14.7	0.703	17.9	500
			Round	SJ	16/2	0.325 - 0.429	Z	0.625	15.9	0.550	14.0	0.125	3.2	0.666	16.9	0.725	18.4	500
			Round	SJ	16/3	0.325 - 0.429	Z	0.625	15.9	0.550	14.0	0.125	3.2	0.666	16.9	0.725	18.4	500
23MP06L10			Round	SJT	16/2	0.325 - 0.429	Z	0.625	15.9	0.550	14.0	0.125	3.2	0.666	16.9	0.725	18.4	500
			Round	SJT	16/3	0.325 - 0.429	Z	0.625	15.9	0.550	14.0	0.125	3.2	0.666	16.9	0.725	18.4	500
			Round	SJO	16/2	0.325 - 0.429	Z	0.625	15.9	0.550	14.0	0.125	3.2	0.666	16.9	0.725	18.4	500
			Round	SJO	16/3	0.325 - 0.429	Z	0.625	15.9	0.550	14.0	0.125	3.2	0.666	16.9	0.725	18.4	500
			Round	SJ	18/3	0.325 - 0.359	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.750	19.1	0.922	23.4	250
			Round	SJ	16/2	0.325 - 0.359	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.750	19.1	0.922	23.4	250
23MP07K30			Round	SJT	16/2	0.325 - 0.359	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.750	19.1	0.922	23.4	250
			Round	SJO	18/3	0.325 - 0.359	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.750	19.1	0.922	23.4	250
			Round	SJO	16/2	0.325 - 0.359	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.750	19.1	0.922	23.4	250
			Round	SJ	18/3	0.355	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.580	14.7	0.703	17.9	1000
23MP06N34			Round	SJT	18/3	0.405	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.580	14.7	0.703	17.9	1000
			Round	SJT	18/3	0.430	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.580	14.7	0.703	17.9	1000
SRB-R-9		—	Round	SJT	14/3	0.362 - 0.413	Y	0.748	19.0	0.650	16.5	0.062	1.6	0.750	19.1	0.847	21.5	100
		—	Round	SJT	14/3	0.433	Y	0.780	19.8	0.650	16.5	0.062	1.6	0.750	19.1	0.847	21.5	100
SRB-R-10		—	Round	SJT	14/3	0.362 - 0.413	Y	0.748	19.0	0.650	16.5	0.126	3.2	0.764	19.4	0.854	21.7	100
		—	Round	SJT	14/3	0.434	Y	0.780	19.8	0.650	16.5	0.126	3.2	0.764	19.4	0.854	21.7	100

CABLE GLANDS

CG-NPT Series
NPT Cable Gland





Specifications:

- Material: Body and Nut: UL94 V-2 Nylon 6
  Sealing Gland: CR/NBR
  O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut: UL94 V-2 Glass-Filled Nylon 6
- Color: Black

Features:

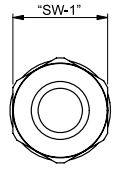
- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no O-Ring is needed for smaller sizes to meet IP68 rating
- Operating temperature: -4°F - 212°F (-20°C -100°C)

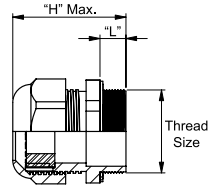
Optional Locknuts

Item No.	Thread Size	Locking Nuts Across Flats in	Across Flats mm	Thickness in	Thickness mm	Bulk Pack Qty.
CGNPT050B	NPT-1/4	0.748	19.0	0.216	5.5	100
CGLN-NPT-3/8-BK	NPT-3/8	0.866	22.0	0.197	5.0	100
CGLN-NPT-1/2-BK	NPT-1/2	1.063	27.0	0.236	6.0	100
CGLN-NPT-3/4-BK	NPT-3/4	1.417	36.0	0.276	7.0	100
CGLN-NPT-1-BK	NPT-1	1.654	42.0	0.276	7.0	100

Item No.	Approval	Cable Ø Range Min in	Cable Ø Range Min mm	Cable Ø Range Max in	Cable Ø Range Max mm	Thread Size	Mounting Hole in	Mounting Hole mm	L in	L mm	SW-1 in	SW-1 mm	H Max Ref. in	H Max Ref. mm	Bulk Pack Qty.
CG-NPT-1/4-1-BK	—	0.157	4.0	0.315	8.0	NPT-1/4	0.524	13.3	0.354	9.0	0.748	19.0	1.378	35.0	100
CG-NPT-3/8-1-BK	cULus	0.118	3.0	0.276	7.0	NPT-3/8	0.670	17.0	0.571	14.5	0.866	22.0	1.750	44.5	100
CG-NPT-3/8-2-BK	cULus	0.197	5.0	0.394	10.0	NPT-3/8	0.670	17.0	0.571	14.5	0.866	22.0	1.750	44.5	100
CG-NPT-1/2-1-BK	cULus	0.197	5.0	0.236	9.0	NPT-1/2	0.875	22.2	0.571	14.5	0.945	24.0	1.770	45.0	100
CG-NPT-1/2-2-BK	cULus	0.276	7.0	0.472	12.0	NPT-1/2	0.875	22.2	0.591	15.0	1.063	27.0	1.870	47.5	100
CG-NPT-1/2-3-BK	cULus	0.394	10.0	0.551	14.0	NPT-1/2	0.875	22.2	0.591	15.0	1.063	27.0	1.870	47.5	100
CG-NPT-3/4-1-BK	cULus	0.354	9.0	0.630	16.0	NPT-3/4	1.068	27.1	0.591	15.0	1.299	33.0	2.050	52.0	50
CG-NPT-3/4-2-BK	cULus	0.551	14.0	0.709	18.0	NPT-3/4	1.068	27.1	0.591	15.0	1.299	33.0	2.050	52.0	50
CG-NPT-1-1-BK	cULus	0.472	12.0	0.787	20.0	NPT-1	1.350	34.3	0.709	18.0	1.654	42.0	2.380	60.5	25
CG-NPT-1-2-BK	cULus	0.748	19.0	0.984	25.0	NPT-1	1.350	34.3	0.709	18.0	1.654	42.0	2.380	60.5	25

CG-M Series
Cable Gland – Metric Thread





Specifications:

- Material: Body and Nut: UL94 V-2 Nylon 6
  Sealing Gland: CR/NBR
  O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut: UL94 V-2 Glass-Filled Nylon 6
- Color: Black

Features:

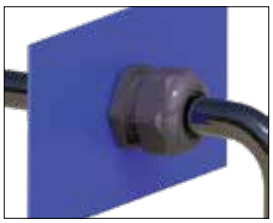
- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no Sealing Washer is needed for smaller sizes to meet IP68 rating
- Two Sealing Glands are included with all but the M12 thread. Remove the inner sealing gland for larger cable diameters

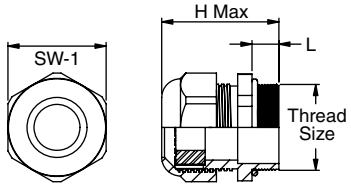
Item No.	Approval	Ø Cable Range Min in	Ø Cable Range Min mm	Ø Cable Range Max in	Ø Cable Range Max mm	Thread Size	Mounting Hole in	Mounting Hole mm	L in	L mm	SW-1 in	SW-1 mm	H Max Ref. in	H Max Ref. mm	Pack Qty.	Bulk Pack Qty.
CG-M12-1-BK	cULus	0.079	2.0	0.197	5.0	M12	0.480	12.2	0.315	8.0	0.591	15.0	1.220	31.0	1	100
CG-M16-1-BK	cULus	0.118	3.0	0.394	10.0	M16	0.638	16.2	0.315	8.0	0.787	20.0	1.398	35.5	1	100
CG-M20-1-BK	cULus	0.197	5.0	0.512	13.0	M20	0.795	20.2	0.315	8.0	0.945	24.0	1.417	36.0	1	100
CG-M25-1-BK	cULus	0.315	8.0	0.669	17.0	M25	0.992	25.2	0.315	8.0	1.142	29.0	1.623	43.0	1	50
CG-M32-1-BK	cULus	0.472	12	0.827	21.0	M32	1.268	32.2	0.394	10.0	1.417	36.0	1.968	50.0	1	25
CG-M40-1-BK	cULus	0.630	16	1.102	28.0	M40	1.583	40.2	0.394	10.0	1.811	46.0	2.008	51.0	1	10

Optional Locknuts

Item No.	Thread Size	Locking Nuts Across Flats in	Across Flats mm	Thickness in	Thickness mm	Pack Qty.	Bulk Pack Qty.
CGLN-M12-BK	M12	0.339	17.0	0.197	5.0	1	100
CGLN-M16-BK	M16	0.866	22.0	0.197	5.0	1	100
CGLN-M20-BK	M20	1.063	27.0	0.236	6.0	1	100
CGLN-M25-BK	M25	1.260	32.0	0.236	6.0	1	100
CGLN-M32-BK	M32	1.614	41.0	0.276	7.0	1	100
CGLN-M40-BK	M40	1.969	50.0	0.276	7.0	1	50

CG-PG Series
PG Cable Gland





Specifications:
- Material: Body and Nut: UL94 V-2 Nylon 6
  Sealing Gland: CR/NBR
  O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut:
  UL94 V-2 Glass-Filled Nylon 6
- Color: Black
- Temperature Range: -4°F - 212°F (-20°C -100°C)

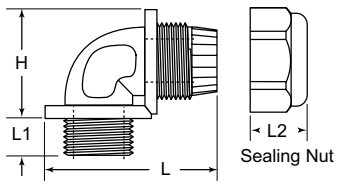
Features:
- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no O-Ring needed for smaller sizes to meet IP68 rating

Optional Locknuts

Locking Nuts							
Item No.	Thread Size	Across Flats		Thickness		Pack Qty.	Bulk Pack Qty.
		In	mm	In	mm		
CGLN-PG7-BK	PG7	0.748	19.0	0.197	5.0	1	100
CGLN-PG9-BK	PG9	0.866	22.0	0.197	5.0	1	100
CGLN-PG11-BK	PG11	0.945	24.0	0.197	5.0	1	100
CGLN-PG13.5-BK	PG13.5	1.063	27.0	0.236	6.0	1	100
CGLN-PG16-BK	PG16	1.181	30.0	0.236	6.0	1	100
CGLN-PG21-BK	PG21	1.417	36.0	0.276	7.0	1	100
CGLN-PG29-BK	PG29	1.811	46.0	0.276	7.0	1	100
CGLN-PG36-BK	PG36	2.362	60.0	0.315	8.0	1	50

Item No.	Approval	Ø Cable Range Min		Ø Cable Range Max		Thread Size	Mounting Hole		L		SW-1		H Max Ref.		Pack Qty.	Bulk Pack Qty.
		in	mm	in	mm		in	mm	in	mm	in	mm	in	mm		
CG-PG7-1-BK	cULus	0.079	2.0	0.197	5.0	PG7	0.500	12.7	0.315	8.0	0.591	15.0	1.201	30.5	1	100
CG-PG7-2-BK	cULus	0.118	3.0	0.256	6.5	PG7	0.500	12.7	0.315	8.0	0.591	15.0	1.201	30.5	1	100
CG-PG9-1-BK	cULus	0.079	2.0	0.236	6.0	PG9	0.606	15.4	0.315	8.0	0.748	19.0	1.339	34.0	1	100
CG-PG9-2-BK	cULus	0.157	4.0	0.315	8.0	PG9	0.606	15.4	0.315	8.0	0.748	19.0	1.339	34.0	1	100
CG-PG11-1-BK	cULus	0.118	3.0	0.276	7.0	PG11	0.740	18.8	0.315	8.0	0.866	22.0	1.457	37.0	1	100
CG-PG11-2-BK	cULus	0.197	5.0	0.394	10.0	PG11	0.740	18.8	0.315	8.0	0.866	22.0	1.457	37.0	1	100
CG-PG13.5-1-BK	cULus	0.236	6.0	0.472	12.0	PG13.5	0.815	20.7	0.354	9.0	0.945	24.0	1.535	39.0	1	100
CG-PG16-1-BK	cULus	0.394	10.0	0.551	14.0	PG16	0.898	22.8	0.394	10.0	1.063	27.0	1.673	42.5	1	50
CG-PG21-1-BK	cULus	0.236	9.0	0.630	16.0	PG21	1.126	28.6	0.433	11.0	1.299	33.0	1.870	47.5	1	50
CG-PG21-2-BK	cULus	0.512	13.0	0.709	18.0	PG21	1.126	28.6	0.433	11.0	1.299	33.0	1.870	47.5	1	50
CG-PG29-1-BK	cULus	0.472	12.0	0.787	20.0	PG29	1.472	37.4	0.433	11.0	1.654	42.0	2.087	53.0	1	25
CG-PG36-1-BK	cULus	0.787	20.0	1.024	26.0	PG36	1.870	47.5	0.512	13.0	2.087	53.0	2.402	61.0	1	10
CG-PG36-2-BK	cULus	0.866	22.0	1.260	32.0	PG36	1.870	47.5	0.512	13.0	2.087	53.0	2.402	61.0	1	10

CGRA Series
90° NPT Cable Glands



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Black
- Temperature Range: Working –40°F to 221°F (–40°C to 105°C)
  Intermittent up to 300°F (149°C)

Features:
- IP 68 rated protection: 5 bar
- Provides dust and water-tight performance and strain relief
- EPDM gasket and lock nut are sold separately

Optional Parts

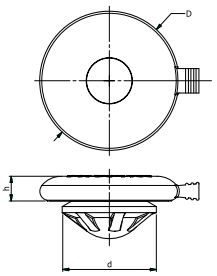
LNPT - NPT Locknuts			
Locknut Item No.	NPT Thread	Pack Qty.	Bulk Pack Qty.
LNPT100B	3/8"	1	50
LNPT200B	1/2"	1	50
LNPT300B	3/4"	1	50
LNPT005B	1-1/4"	1	10

Item No.	NPT Thread	Mounting Hole	Overall Length L		Mounting Thread L1		Nut Length L2		Overall Height H		Variable Clamping Range (Min/Max)		Pack Qty.	Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	in	mm		
CGRA011A	3/8	0.687	1.909	48.5	0.461	11.7	0.657	16.7	1.181	30.0	0.197 - 0.354	5.0 - 8.0	1	20
CGRA015A	1/2	0.875	2.031	51.6	0.579	14.7	0.724	18.4	1.228	31.2	0.393 - 0.512	10.0 - 13.0	1	20
CGRA018A	3/4	1.0625	2.539	64.5	0.583	14.8	0.878	22.3	1.638	41.6	0.512 - 0.630	13.0 - 16.0	1	20
CGRA020A	1-1/4	1.687	3.346	85.0	0.740	18.8	1.220	31.0	2.087	53.0	0.866 - 1.412	22.0 - 29.0	1	10

PANEL HOLE PLUGS & CABLE GROMMETS

Metric & PG Threaded Rubber Plug

IP67

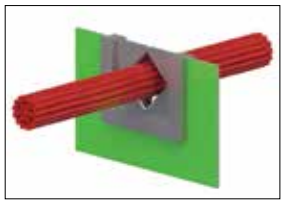


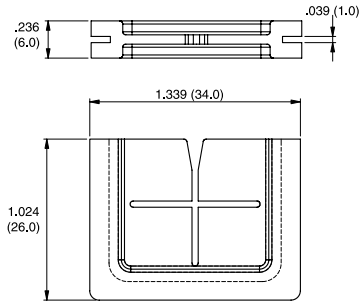
Specifications:
- Material: Silicone Rubber
- Color: Black

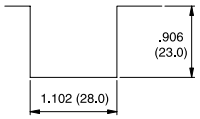
Features:
- Can be pushed into place using a blunt tipped tool
- Used to give water tight protection to spare holes that need to be closed off
- Pull tab for easy removal
- Fits standard Metric and PG sizes

Item No.	Cable Gland Sizes	Ø Hole		Panel Thickness Range		d		D		h		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	
551846	PG7/M12	0.480 - 0.492	12.2 - 12.5	0.039 - 0.079	1.0 - 2.0	0.571	14.5	0.968	24.6	0.189	4.8	1000
551847	PG9/M16	0.606 - 0.638	15.4 - 16.2	0.039 - 0.079	1.0 - 2.0	0.689	17.5	1.087	27.6	0.197	5.0	500
551848	PG11/PG13.5/M20	0.740 - 0.815	18.8 - 20.7	0.039 - 0.079	1.0 - 2.0	0.905	23.0	1.346	34.2	0.236	6.0	500
551849	PG16	0.898	22.8	0.039 - 0.079	1.0 - 2.0	1.024	26.0	1.520	38.6	0.256	6.5	200
551850	PG21/M25	0.992 - 1.126	25.2 - 28.6	0.039 - 0.079	1.0 - 2.0	1.220	31.0	1.732	44.0	0.295	7.5	100
551851	M32	1.268 - 1.394	32.2 - 35.4	0.039 - 0.079	1.0 - 2.0	1.575	40.0	2.205	56.0	0.354	9.0	100

CGA Series Cable Grommet







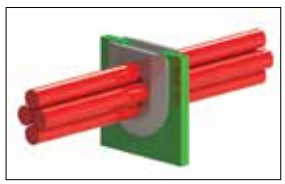
Recommended Panel Cut-Out

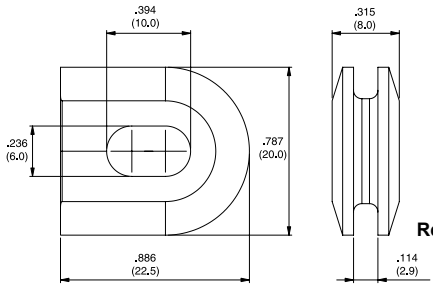
Specifications:
- Material: Silicone Rubber, 70 Shore A
- Color: Black

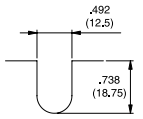
Features:
- Routes cables and protects wires from sharp edges
- "Wings" are flexible so it can accept various diameters and shapes
- Continuous working temperature of 300°F

Item No.	Ø Maximum Bundle		Panel Thickness		Bulk Pack Qty.
	in	mm	in	mm	
1258288	0.591	15.0	0.039	1.0	1000

CGB Series Cable Grommet







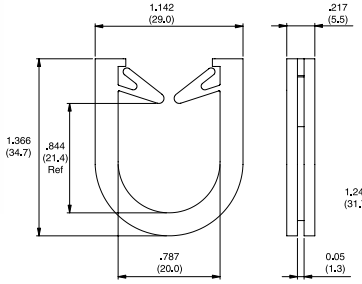
Recommended Panel Cut-Out

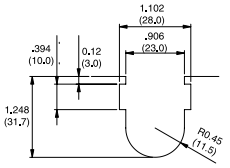
Specifications:
- Material: Silicone Rubber, 65 Shore A
- Color: Black

Features:
- Routes cables and protects wires from sharp edges
- "Wings" are flexible so it can accept various diameters and shapes
- Continuous working temperature of 350°F

Item No.	Bundle Area		Max Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	
CGB-1	0.394 x 0.236	10.0 x 6.0	0.110	2.8	1000

CGC Series Cable Grommet





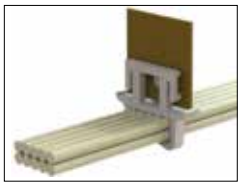
Recommended Panel Cut-Out

Specifications:
- Material: Nylon 6/6
- Color: Natural

Features:
- Routes cables and protects wires from sharp edges
- "Wings" are flexible so it can accept various diameters and shapes
- Cables may be inserted and removed

Item No.	Bundle Area		Max Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	
CGC-1-01	0.844 x 0.787	21.4 x 20.0	0.047	1.2	250

EHWSE/EWSE/EWSJS Series
Edge Wire Saddle



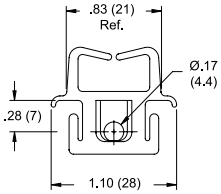
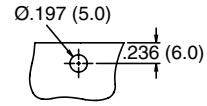
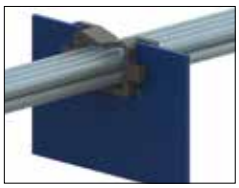


Figure 1



Recommended Mounting Hole



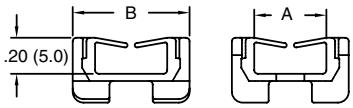
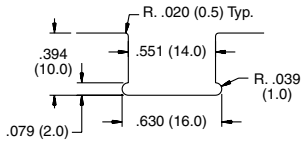
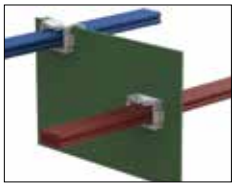


Figure 2



Recommended Panel Cut-Out



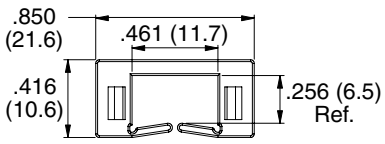
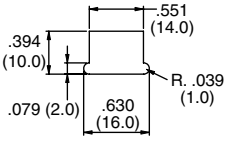
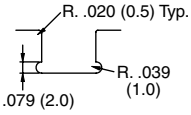


Figure 3



Thru Hole Panel Cut-Out



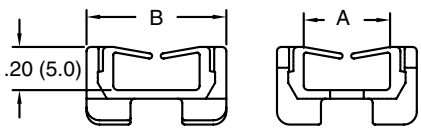
Edge Hole Panel Cut-Out

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:
- Mounts vertically or horizontally
- Routes cables and protects wires from sharp edges

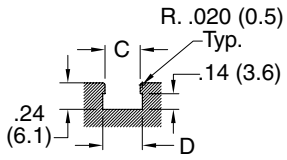
Item No.	Figure	Approval	Color	Panel Thickness in	Panel Thickness mm	Depth in	Depth mm	Bulk Pack Qty.
EHWSE-1-01	1	𝑹𝑳	Natural	0.039 - 0.079	1.0 - 2.0	0.240	6.2	1000
EWSE-1-01	2	𝑹𝑳	Black	0.032 - 0.078	0.8 - 1.2	0.190	4.8	1000
EWSE-2-01	2	𝑹𝑳	Natural	0.047 - 0.063	1.2 - 1.6	0.190	4.8	1000
EWSE-3-01	2	𝑹𝑳	Grey	0.063 - 0.079	1.6 - 2.0	0.190	4.8	1000
EWSJS-1-01	3	—	Natural	0.032 - 0.078	0.8 - 2.0	0.260	6.6	1000

EWSE Series
Edge Wire Saddle



Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Snaps into cutout on the board
- Routes cables and protects wires from sharp edges

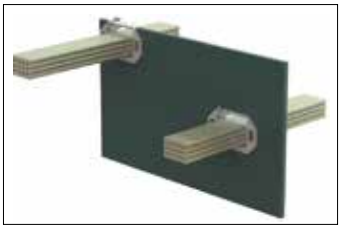


Recommended Panel Cut-Out

Item No.	Approval	Panel Thickness in	Panel Thickness mm	A in	A mm	B in	B mm	C in	C mm	D in	D mm	Depth in	Depth mm	Bulk Pack Qty.
EWSE-12.8-01	𝑹𝑳	0.031 - 0.063	0.8 - 1.6	0.200	5.0	0.440	11.3	0.320	8.1	0.360	9.1	0.140	3.6	1000
EWSE-8.1-01	𝑹𝑳	0.031 - 0.063	0.8 - 1.6	0.390	10.0	0.640	16.2	0.500	12.8	0.540	13.8	0.140	3.6	1000

EDGE WIRE SADDLES & GROMMET EDGING

HEWSE Series
Hinged Edge Wire Saddle



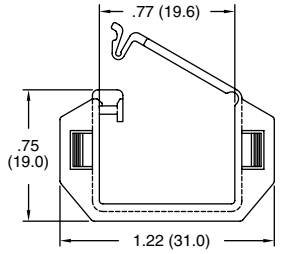


Figure 1

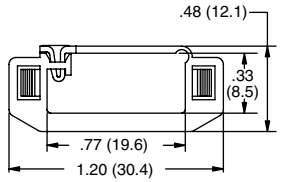
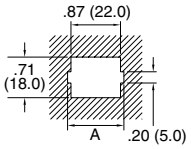


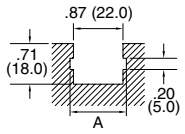
Figure 2

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

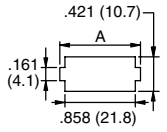
Features:
- Routes cables and protects them from sharp edges
- Installed in a mounting slot; edge or through-hole
- Hinged latch allows retrofitting into pre-existing applications



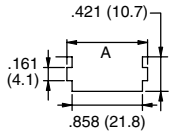
Thru Hole Panel Cut-Out



Edge Hole Panel Cut-Out



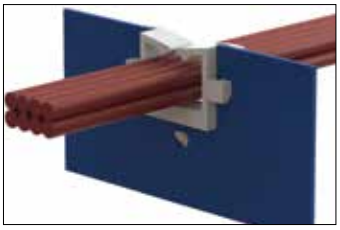
Thru Hole Panel Cut-Out

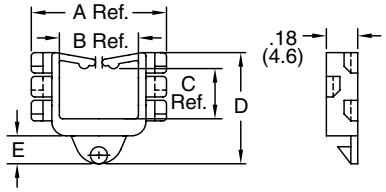


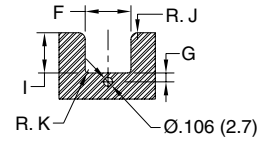
Edge Hole Panel Cut-Out

Item No.	Figure	Panel Thickness in	Panel Thickness mm	A in	A mm	Depth in	Depth mm	Bulk Pack Qty.
HEWSE-22-01	1	0.020 - 0.063	0.5 - 1.6	0.980	25.0	0.260	6.6	1000
HEWSE-25-01	2	0.031 - 0.063	0.8 - 1.6	0.980	25.0	0.260	6.6	1000
HEWSE-25-01	2	0.079	2.0	1.020	26.0	0.260	6.6	1000

LEWSE Series
Edge Wire Saddle







Recommended Panel Cut-Out

Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Locking pin in mounting base provides firm grip to the board
- Protects wires from sharp edges
- Available in four different sizes

Item No.	Panel Thickness	A Ref. in	B Ref. in	C Ref. in	D in	E in	F in	I in	G in	R. J in	R. K in	Bulk Pack Qty.
LEWSE-14-01	0.031 - 0.063	0.780	0.460	0.290	0.640	0.160	0.551	0.484	0.106	0.079	0.039	1000
LEWSE-19-01	0.031 - 0.063	1.060	0.660	0.590	0.980	0.150	0.756	0.831	0.100	0.079	0.039	1000
LEWSE-21-01	0.031 - 0.063	1.130	0.660	0.580	0.980	0.150	0.827	0.827	0.100	0.079	0.060	1000
LEWSE-27-01	0.031 - 0.063	1.370	0.900	0.910	1.310	0.120	10.630	1.140	0.106	0.079	0.060	1000

MCCG Series
Metal Cushioned Grommet

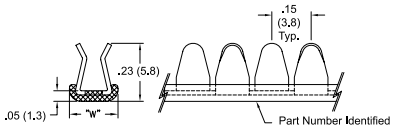


Figure 1

Specifications:
- Material: 304 Stainless Steel, Coated with Black Nylon 1 Cushion: UL94 V-0 TPE (60 Shore D)
- Temperature Range: -40°F - 285°F (-40°C - 140°C)

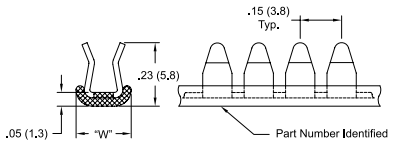


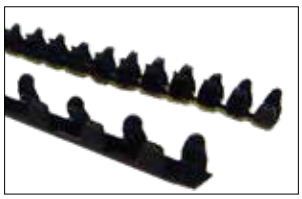
Figure 2

Features:
- Dielectric Strength: 1500 volts @ 60Hz
- Flexible polymer cushion gives additional abrasion protection
- Sold in 100 foot reels that can be cut to length using metal shears
- The MCCGF is the more flexible of the two due to the design

Item No. Figure 1	Item No. Figure 2	Approval	Fits Panel Thickness in	Fits Panel Thickness mm	Width W in	Width W mm	Roll Length ft	Pack Qty.
MCCG-1N	**MCCGF-1N**		0.029 - 0.045	0.7 - 1.1	0.190	4.8	100	1
MCCG-2N	**MCCGF-2N**		0.044 - 0.056	1.1 - 1.4	0.190	4.8	100	1
MCCG-3N	**MCCGF-3N**		0.055 - 0.069	1.4 - 1.7	0.190	4.8	100	1
MCCG-4N	—		0.069 - 0.090	1.7 - 2.3	0.230	5.8	100	1
MCCG-6N	—		0.113 - 0.130	2.9 - 3.3	0.230	5.8	100	1

GROMMET EDGING

MCG/MCGF Series
Metal Grommet



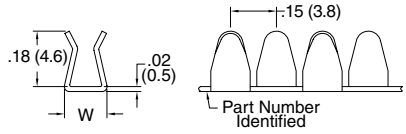
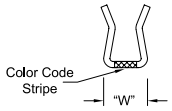


Figure 1



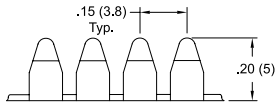


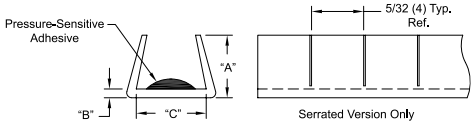
Figure 2

Specifications:
- Material: 304 Stainless Steel, Coated with Black Nylon 11 and a cushion of TPE 60 Shore D UL94V-0 rating
- Color: See Table
- Temperature Range: -40°F - 285°F (-40°C - 140°C)

Features:
- Dielectric Strength: 1000 Volts @ 60Hz
- Locks onto panel with finger pressure
- Sold in 100 foot reels that can be cut to length using metal shears
- The MCGF is the more flexible of the two due to the design

Item No.			Fits Panel Thickness		Width W		Color Coded	Roll Length	Pack Qty.
Figure 1	Figure 2	Approval	in	mm	in	mm		ft	
MCG-1N	—		0.029 - 0.045	0.7 - 1.1	0.140	3.6	—	100	1
MCG-2N	—		0.044 - 0.056	1.1 - 1.4	0.140	3.6	—	100	1
MCG-3N	—		0.055 - 0.069	1.4 - 1.7	0.140	3.6	—	100	1
MCG-4N	—		0.069 - 0.090	1.7 - 2.3	0.180	4.6	—	100	1
MCG-6N	—		0.113 - 0.130	2.9 - 3.3	0.180	4.6	—	100	1
—	MCGF-1N		0.029 - 0.045	0.7 - 1.1	0.130	3.3	White	100	1
—	MCGF-2N		0.044 - 0.056	1.1 - 1.4	0.130	3.3	Pink	100	1
—	MCGF-3N		0.055 - 0.069	1.4 - 1.7	0.130	3.3	Yellow	100	1

NGSG/SNGSG/PGSG/SPGSG Series
Continuous Grommet Edging with Adhesive

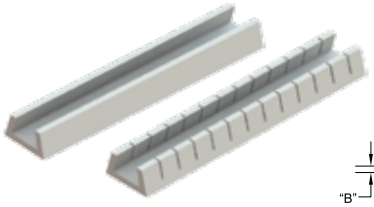


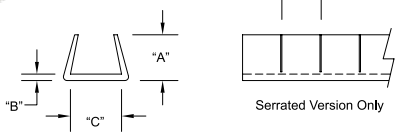
Specifications:
- Material Options:
  UL94 HB Nylon Temperature Range: -40°F - 248°F (-40°C - 120°C)
  Polyethylene: Temperature Range: -40°F - 149°F (-40°C - 65°C)
- Color: See Table

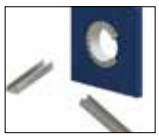
Features:
- Adhesive provides self-retaining grip eliminating the need for epoxy
- Sizes 6, 7, and 8 are extra flexible
- Solid version is for straight edges
- Serrated version for round, square, and rectangular holes
- Polyethylene material is very flexible

Solid Profile Item No.		Serrated Profile Item No.			Panel Thickness Range		A Ref.		B Ref.		C Ref.		Roll Length	Pack Qty.
Natural	Black	Natural	Black	Material	in	mm	in	mm	in	mm	in	mm	ft	
NGSG-2	—	SNGSG-2	SNGSG-2B	UL94 HB Nylon	0.037 - 0.071	0.9 -1.8	0.172	4.4	0.031	0.8	0.109	2.8	100	1
NGSG-2.5	—	SNGSG-2.5	—	UL94 HB Nylon	0.072 - 0.105	1.8 - 2.7	0.172	4.4	0.031	0.8	0.109	2.8	100	1
NGSG-3	—	SNGSG-3	—	UL94 HB Nylon	0.106 - 0.164	2.7 - 4.2	0.188	4.8	0.047	1.2	0.156	4.0	100	1
PGSG-2	PGSG-2B	SPGSG-2	SPGSG-2B	Polyethylene	0.037 - 0.071	0.9 -1.8	0.172	4.4	0.031	0.8	0.109	2.8	100	1
PGSG-6	PGSG-6B	SPGSG-6	—	Polyethylene	0.037 - 0.071	0.9 -1.8	0.160	4.1	0.025	0.6	0.060	1.5	100	1
PGSG-2.5	PGSG-2.5B	SPGSG-2.5	SPGSG-2.5B	Polyethylene	0.072 - 0.105	1.8 - 2.7	0.172	4.4	0.031	0.8	0.109	2.8	100	1
—	—	SPGSG-7	—	Polyethylene	0.072 - 0.105	1.8 - 2.7	0.188	4.8	0.035	0.9	0.100	2.5	100	1
PGSG-3	PGSG-3B	SPGSG-3	SPGSG-3B	Polyethylene	0.106 - 0.164	2.7 - 4.2	0.188	4.8	0.047	1.2	0.156	4.0	100	1
—	—	SPGSG-8	—	Polyethylene	0.106 - 0.164	2.7 - 4.2	0.188	4.8	0.035	0.9	0.156	4.0	100	1

NGS/PGS/SNGS/SPGS Series
Continuous Grommet Edging







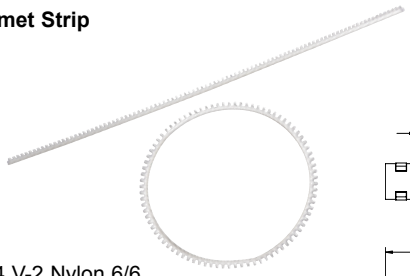
Specifications:
- Material: See Table
- Color: See Table

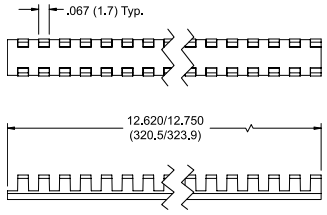
Features:
- Solid version is for straight edges
- Serrated version for round, square, and rectangular holes
- Polyethylene material is very flexible

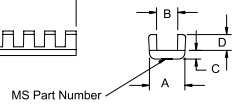
Solid Profile Item No		Serrated Profile Item No.			Panel Thickness Range		A Ref.		B Ref.		C Ref.		Roll Length	Pack Qty.
Natural	Black	Natural	Black	Material	in	mm	in	mm	in	mm	in	mm	ft	
NGS-1	—	SNGS-1	SNGS-1B	UL94 HB Nylon	0.026-0.036	0.7 - 0.9	0.125	3.2	0.031	0.8	0.031	0.8	100	1
NGS-2	—	SNGS-2	SNGS-2B	UL94 HB Nylon	0.037-0.071	0.9 -1.8	0.172	4.4	0.031	0.8	0.109	2.8	100	1
—	—	SNGS-2.5	SNGS-2.5B	UL94 HB Nylon	0.072-0.105	1.8 - 2.7	0.172	4.4	0.031	0.8	0.109	2.8	100	1
—	—	SNGS-3	SNGS-3B	UL94 HB Nylon	0.106-0.164	2.7 -4.2	0.188	4.8	0.047	1.2	0.156	4.0	100	1
—	—	SNGS-4	SNGS-4B	UL94 HB Nylon	0.164-0.187	4.2 - 4.7	0.188	4.8	0.047	1.2	0.188	4.8	100	1
—	—	SNGS-5	—	UL94 HB Nylon	0.188-0.250	4.8 - 6.4	0.188	4.8	0.047	1.2	0.250	6.4	100	1
PGS-1	PGS-1B	SPGS-1	—	Polyethylene	0.026-0.036	0.7 - 0.9	0.125	3.2	0.031	0.8	0.031	0.8	100	1
PGS-2	—	SPGS-2	—	Polyethylene	0.037-0.071	0.9 -1.8	0.172	4.4	0.031	0.8	0.109	2.8	100	1
PGS-2.5	PGS-2.5B	SPGS-2.5	SPGS-2.5B	Polyethylene	0.072-0.105	1.8 - 2.7	0.172	4.4	0.031	0.8	0.109	2.8	100	1
PGS-3	—	SPGS-3	—	Polyethylene	0.106-0.164	2.7 -4.2	0.188	4.8	0.047	1.2	0.156	4.0	100	1

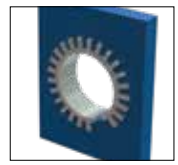
GROMMET EDGING

MGS Series
MS21266 Grommet Strip







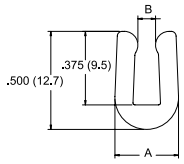


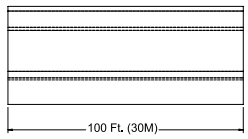
Specifications:
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:
- Ideally suited to cover normal and irregular shaped holes in sheet metal
- Complies with NASM21266
- Minimum hole diameter is 1"

Item No.	Militart Part Number	Panel Thickness	A	B	C	D	Bulk Pack Qty.
MGS-1-01	MS21266-1N	0.015 - 0.052	0.150	0.056	0.055	0.100	100
MGS-2-01	MS21266-2N	0.052 - 0.085	0.175	0.090	0.055	0.100	100
MGS-3-01	MS21266-3N	0.085 - 0.128	0.220	0.131	0.055	0.100	100
MGS-4-01	MS21266-4N	0.128 - 0.192	0.325	0.195	0.070	0.160	100
MGS-5-01	MS21266-5N	0.192 - 0.255	0.385	0.260	0.070	0.170	100
MGS-6-01	MS21266-6N	0.255 - 0.318	0.445	0.320	0.075	0.180	100
MGS-8-01	MS21266-8N	0.380 - 0.510	0.640	0.515	0.075	0.180	50

RG Series
Rubber Grommet Edging



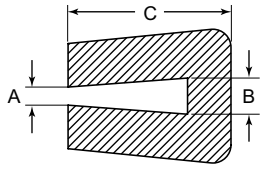


Specifications:
- Material: TPE
- Color: Black

Features:
- Supplied in rolls that can be cut to required length
- Prevents wires and cables from chafing against sharp edges

Item No.	Fits Panel Thickness		A Ref		B Max		Roll Length		Pack Qty.
	in	mm	in	mm	in	mm	ft	m	
RG-1	0.063	1.6	0.264	6.7	0.030	0.8	100	30	1
RG-2	0.093	2.4	0.293	7.4	0.060	1.5	100	30	1
RG-3	0.125	3.2	0.324	8.2	0.090	2.3	100	30	1

GRE Series
PVC Grommet Edging

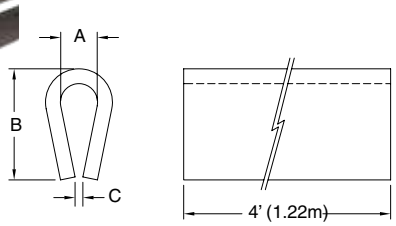


Specifications:
- Material: Soft PVC
- Color: Black

Features:
- Protects sharp or delicate edges
- Fits irregular shapes and a range of panel thicknesses
- PVC material is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities

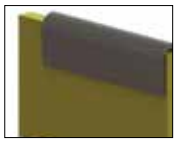
Item No.	Panel Thickness A		Panel Thickness B		Overall Width C		Roll Length		Pack Qty.
	in	mm	in	mm	in	mm	ft	m	
GRE32343A	0.031	0.78	0.047	1.19	0.276	7.01	164	50	1
GRE34074A	0.039	0.99	0.079	2.00	0.315	8.00	164	50	1
GRE34075A	0.059	1.49	0.110	2.79	0.374	9.50	164	50	1
GRE34076A	0.106	2.69	0.149	3.78	0.413	10.49	164	50	1
GRE34077A	0.146	3.70	0.204	5.18	0.433	11.00	164	50	1
GRE34078A	0.209	5.30	0.267	6.78	0.512	13.00	164	50	1

DSC Series
Nylon Grommet Edging



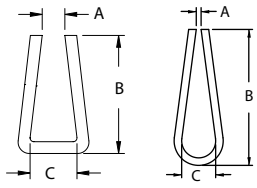
Specifications:
- Material: UL94 HB MDS Filled Nylon
- Color: Gray

Features:
- Used as wear strips, non-abrasive edging, noise-reducing conveyor strips, framing, binding, or to protect from sharp edges
- Built-in lubricant for reduced friction and longer part life
- Resistant to ordinary solvents, mild acids and alkalis or fungus growth
- Comes in 4 foot lengths that can be cut to desired length



Item No.	A Fits Panel Thickness		B		C Ref		Wall Thickness		Length		Bulk Pack Qty.	Pack Qty.
	in	mm	in	mm	in	mm	in	mm	ft	m		
DSC-.5-48	0.062	1.6	0.300	7.6	0.031	0.8	0.031	0.8	4	1.22	100 Ft	1
DSC-1-48	0.125	3.2	0.375	9.5	0.020	0.5	0.047	1.2	4	1.22	100 Ft	1
DSC-2-48	0.188	4.8	0.500	12.7	0.031	0.8	0.047	1.2	4	1.22	100 Ft	1
DSC-3-48	0.250	6.4	0.625	15.9	0.045	1.1	0.063	1.6	4	1.22	100 Ft	1

CH Series
Polystyrene Channel

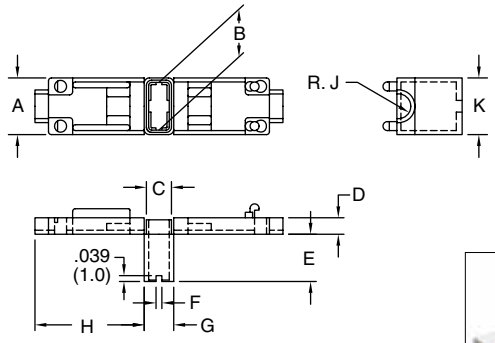


Specifications:
- Material: ULB94 HB Polystyrene
- Color: White

Features:
- Protects from sharp edges
- Binds and frames
- Sold in 4 foot lengths that can be cut to desired length

Item No.	Fits Panel Thickness		A Ref		B Ref		C Min.		Figure	Length		Bulk Pack Qty.	Pack Qty.
	in	mm	in	mm	in	mm	in	mm		ft	m		
CH200X250-48	0.250	6.4	0.200	5.1	0.375	9.5	0.25	6.4	1	4	1.22	100 ft	1
CH15X50-48	0.050	1.3	0.015	0.4	0.437	11.1	0.05	1.3	1	4	1.22	100 ft	1
CH20X141-48	0.140	3.6	0.020	0.5	0.562	14.3	0.14	3.6	2	4	1.22	100 ft	1

OS Series
Straight Terminal Insulator



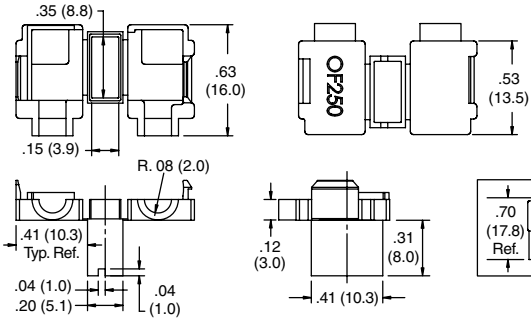
Specifications:
- Material: UL94 V-2 Nylon 6
- Color: Natural

Features:
- Insulating sleeve for straight type receptacles
- Installs easily by hand; slip the sleeve onto receptacle and snap shut with fingers
- For pre-assembled wire and receptacle

Item No.	Approval	Terminal Type	Ø Wire		A		B		C		D		E		F		G		H		R.J		K		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
OS-187		Straight Type 187 Series	9/64	3.6	0.346	8.8	0.240	6.1	0.106	2.7	0.102	2.6	0.268	6.8	0.039	1.0	0.154	3.9	0.594	15.1	0.071	1.8	0.295	7.5	500
OS-250		Straight Type 187 Series	5/32	3.8	0.386	9.8	0.311	7.9	0.164	3.4	0.110	2.8	0.315	8.0	0.039	1.0	0.185	4.7	0.728	18.5	0.081	2.1	0.358	9.1	500

INSULATORS

OF Series
Flag Terminal Insulator

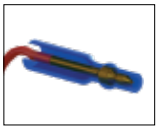


Specifications:
- Material: UL94 V-2 Nylon 6
- Color: Natural

Features:
- Insulating sleeve for flag type receptacles
- Installs easily by hand; slip the sleeve onto receptacle and snap shut with fingers
- For pre-assembled wire and receptacle

Item No.	Approval	Terminal Type	Wire Ø in	Wire Ø mm	Bulk Pack Qty.
OF-250		Flag Type 250 Series	0.150	3.9	500

Quick Fit Straight Terminal Insulator



Specifications:
- Material: UL94 V-0 Soft PVC
- Color: Transparent Blue
- UL Temperature Range: 221°F (105°C)
- UL Voltage: 600V

Features:
- Replaces heat shrink tubing
- Made from a specially formulated soft PVC for fast, flexible installation
- Transparent for visual inspection
- No corrosion when exposed to copper

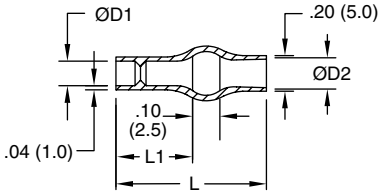


Figure 1

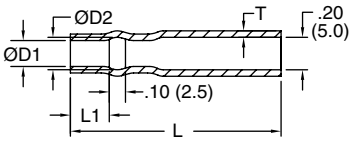


Figure 2

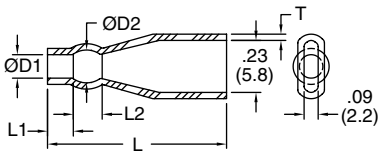


Figure 3

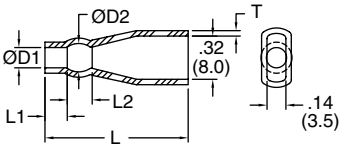


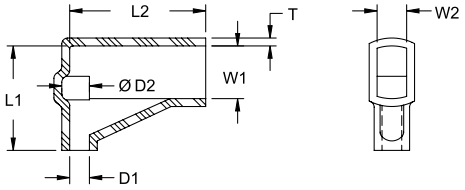
Figure 4

Item No.	Figure	Wire OD Range in	Wire OD Range mm	Wire Gauge	Ø D1 in	Ø D1 mm	Ø D2 in	Ø D2 mm	L1 in	L1 mm	L2 in	L2 mm	L in	L mm	T in	T mm	Bulk Pack Qty.
224225	1	0.580-0.091	1.5-2.3	22-18	0.100	2.5	0.160	4.1	0.240	6.1	—	—	0.510	13.0	—	—	1000
224230	1	0.068-0.113	1.7-2.9	20-18	0.120	3.0	0.160	4.1	0.240	6.1	—	—	0.510	13.0	—	—	1000
215025	2	0.580-0.091	1.5-2.3	22-18	0.100	2.5	0.160	4.1	0.240	6.1	—	—	1.300	33.0	.04	1.0	1000
215032	2	0.071-0.126	1.8-3.2	18-16	0.130	3.3	0.180	4.6	0.280	7.1	—	—	1.340	34.0	.04	1.0	1000
235830	3	0.580-0.091	1.5-2.3	20-18	0.120	3.0	0.160	4.0	0.200	5.0	0.100	2.5	0.910	23.0	.03	.08	1000
235835	3	0.071-0.140	1.8-3.6	18-14	0.140	3.5	0.180	4.5	0.200	5.0	0.120	3.0	0.910	23.0	.03	.08	1000
238032	4	0.071-0.126	1.8-3.2	18-16	0.130	3.3	0.190	4.8	0.200	5.1	0.100	2.5	0.950	24.1	.04	1.0	1000
238035	4	0.071-0.140	1.8-3.6	18-14	0.140	3.6	0.180	4.6	0.200	5.1	0.120	3.0	0.950	24.1	.04	1.0	1000
238040	4	0.091-0.140	2.3-3.6	16-14	0.160	4.1	0.200	5.1	0.200	5.1	0.120	3.0	0.970	24.6	.04	1.0	1000
238048	4	0.113-0.190	2.9-4.8	14-12	0.190	4.8	0.250	6.3	0.200	5.1	0.100	2.5	0.980	24.6	.04	1.0	1000

Quick Fit Flag Terminal Insulator

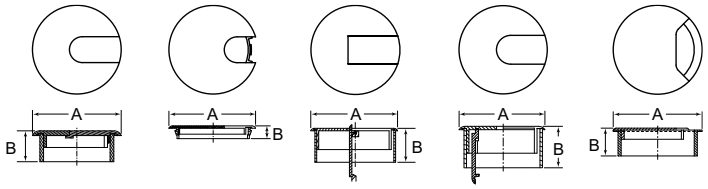
Specifications:
- Material: UL94 V-0 Soft PVC
- Color: Transparent Blue
- UL Temperature Range: 221°F (105°C)
- UL Voltage: 600V

Features:
- Replaces heat shrink tubing
- Made from a specially formulated soft PVC for fast, flexible installation
- Transparent for visual inspection
- No corrosion when exposed to copper



Item No.	Wire OD Range in	Wire OD Range mm	Wire Gauge	Ø D1 in	Ø D1 mm	Ø D2 in	Ø D2 mm	L1 in	L1 mm	L2 in	L2 mm	W1 in	W1 mm	W2 in	W2 mm	T in	T mm	Bulk Pack Qty.
248532	0.071 - 0.126	1.8 - 3.2	18 - 16	0.130	3.2	0.170	4.2	0.530	13.5	0.690	17.5	0.340	8.5	0.180	4.5	0.040	1.0	1000
248548	0.133 - 0.190	2.9 - 4.8	14 - 12	0.190	4.8	0.230	5.8	0.530	13.5	0.690	17.5	0.340	8.5	0.180	4.5	0.040	1.0	1000

WMRG Series
Round Desk Grommets



Type A | Type B | Type C | Type D | Type E

Specifications:
- Material: ABS or PS
- Color: Black
- Surface Finish: Textured or Polished

Features:
- Used extensively on office furniture and computer desks to eliminate the clutter of wires and cables
- Several shapes and styles; most can be coordinated to match the color of your desk surface
- Layer packed for your convenience and to protect the surface during shipping

Item No.	Type	Style	A in	B in	Ø To Fit Hole in	Material	Surface Finish	Bulk Pack Qty.
WMRG100A	A	3-PIECE	1.500	0.469	1.250	ABS	Textured	1000
WMRG110B	D	3-PIECE	2.250	1.000	2.000	ABS	Polished	400
WMRG130A	D	3-PIECE	2.250	1.000	2.000	ABS	Textured	600
WMRG140A	B	2-PIECE	3.000	0.540	2.500	ABS	Textured	750
WMRG160A	C	3-PIECE	3.000	1.050	2.750	ABS	Textured	400
WMRG170C	A	3-PIECE	3.000	1.050	2.750	ABS	Polished	300
WMRG180B	E	2-PIECE	3.625	1.100	3.250	PS	Textured	240
WMRG190B	D	3-PIECE	2.250	1.000	2.000	ABS	Textured	400

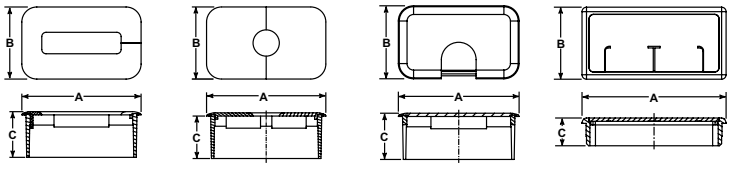
WMUG Series
Round Umbrella Table Grommets

Specifications:
- Material: K-Resin
- Color: Clear

Features:
- Umbrella grommets are used on patio and casual furniture to protect tables from umbrella damage
- The plug finishes the table when the umbrella is not present

Item No.	Ø To Fit Hole in	Type	Pack Qty.	Bulk Pack Qty.
WMUG100C	2.000	Bushing/Ring	1	900
WMUG110D	fits into WMUG100C	Cover/Lid	1	900

WMTG Series
Rectangular Table Grommets



Type A | Type B | Type C | Type D

Specifications:
- Material: See Table
- Color: Black
- Surface Finish: Textured

Features:
- Wire management grommets are used extensively on office furniture and computer desks to eliminate the clutter of wires and cables

Item No.	Type	Style	A in	B in	C in	Ø To Fit Hole in	Material	Surface Finish	Bulk Pack Qty.
WMTG100A	B	3-Piece	3.500	2.125	0.700	3.250 x 1.875	ABS	Textured	525
WMTG110A	B	3-Piece	3.500	2.125	1.250	3.230 x 1.865	ABS	Textured	315
WMTG120A	A	2-Piece	3.475	2.102	1.250	3.250 x 1.865	ABS	Textured	189
WMTG150A	B	2-Piece	3.500	2.134	1.287	3.250 x 1.865	ABS	Textured	320
WMTG170A	C	2-Piece	3.365	2.245	1.750	3.125 x 2.000	ABS	Textured	204
WMTG180A	D	2-Piece	4.020	2.010	0.775	3.770 x 1.750	Polypropylene	Textured	288

TUBE GLIDES, FEET, BUMPERS & CASTERS

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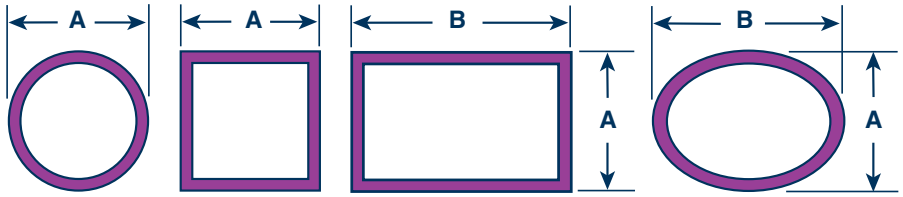
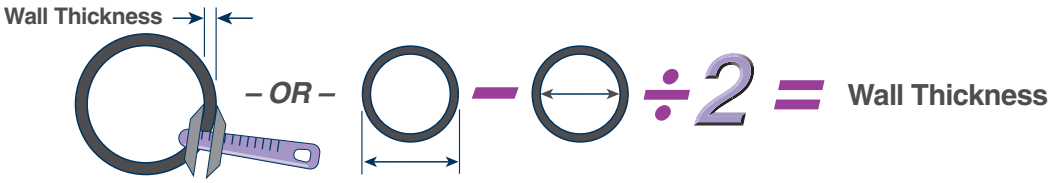
TUBE GLIDES, FEET, BUMPERS & CASTERS

TUBE INSERT & GLIDE SELECTOR GUIDE

Step 1: Determine Tube Size = Actual OD of Tubing



Step 2: Determine the Wall Thickness to Determine Tube Gauge



Wall Thickness (in)	0.239	0.224	0.209	0.194	0.179	0.164	0.149	0.134	0.120	0.109	0.095	0.083	0.072	0.065	0.058	0.049	0.042	0.035	0.028
(mm)	6.1	5.7	5.3	4.9	4.5	4.2	3.8	3.4	3	2.8	2.4	2.1	1.8	1.7	1.5	1.2	1.1	0.9	0.7
Tube Gauge	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	22

Step 3: Select your desired…

Style:

Ribbed Design –
Fits Multiple Gauges
Non-Load Bearing

Straight Wall Design –
Fits Single Gauge
Load Bearing

Shape & Finish:

Flat, Rounded, Angled, or Articulating

Polished, Textured (Matte), or Chromed

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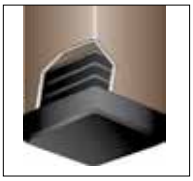
SQUARE INSERT GLIDES

SQR Series
Square Multi-Gauge Ribbed Tube Inserts



Specifications:
- Material: Low-Density Polyethylene
- Surface Finish: See Table
- Color: See Table

Features:
- Ideal for aesthetic or light-duty load bearing applications
- Perimeter rib design allows for easy assembly and a secure fit
- Used on a wide range of furniture and metal tubing applications

Imperial

Black Item No.		White Item No.		Tube OD	Tube Gauge	Wall Thickness	Bulk Pack Qty.
Polished	Textured	Polished	Textured	in		in	
SQR051620A	—	—	—	0.500	16-20	0.035-0.065	10000
SQR111193A	SQR111211A	SQR111229A	—	0.500	14-20	0.035-0.083	2500
SQR061620C	—	—	—	0.625	16-20	0.035-0.065	5000
SQR111195A	SQR111213A	—	—	0.625	12-20	0.035-0.109	2500
SQR111196A	SQR111214A	SQR111232A	—	0.750	12-20	0.035-0.109	2500
SQR071620C	—	—	—	0.750	16-20	0.035-0.065	5000
SQR081618A	—	—	—	0.875	16-18	0.049-0.065	4000
SQR101014A	—	SQR101014D	—	1.000	10-14	0.083-0.134	2000
SQR101420D	—	—	—	1.000	14-20	0.035-0.083	2500
SQR111200A	SQR111218A	SQR111235A	—	1.000	11-19	0.042-0.120	2500
SQR111620A	—	—	—	1.125	16-20	0.035-0.065	2000
—	—	SQR199150A	—	1.125	14-20	0.035-0.083	2000
SQR121014A	—	—	—	1.250	10-14	0.083-0.134	2000
SQR121420A	—	—	—	1.250	14-20	0.035-0.083	2000
—	—	—	SQR111616A	1.250	11-19	0.042-0.120	1500
SQR131016A		—	—	1.375	10-16	0.065-0.134	900
SQR111202A	SQR111220A	SQR111238A	—	1.375	11-19	0.042-0.120	1500
SQR151014A	—	—	—	1.500	10-12	0.083-0.109	1000
SQR111503A	SQR111541A	SQR111617A	—	1.500	12-19	0.042-0.120	1000
SQR151418A	—	—	—	1.500	14-18	0.049-0.083	1000
SQR171014A	SQR171014B	SQR171014C	—	1.750	10-14	0.083-0.134	500
SQR171418A	—	SQR171418C	—	1.750	14-18	0.049-0.083	500
—	SQR200508A	—	—	2.000	5-8	0.164-0.209	500
SQR201014A	—	—	—	2.000	10-14	0.083-0.134	350
SQR201418A	—	—	—	2.000	14-18	0.049-0.083	500
SQR111206A	SQR111224A	SQR111242A	—	2.000	11-19	0.042-0.120	500
—	SQR251014A	—	—	2.500	10-14	0.083-0.134	250
SQR111504A	SQR111542A	—	—	2.500	11-19	0.042-0.120	250
—	SQR300508A	—	—	3.000	5-8	0.164-0.209	200
—	SQR301014A	—	—	3.000	10-14	0.083-0.134	200
SQR111507A	SQR111545A	—	SQR111621A	3.000	8-14	0.083-0.164	200
SQR3511B	—	—	—	3.500	8-11	0.120-0.164	70
	SQR400408A			4.000	4-8	0.164-0.224	75
—	SQR400711B	—	—	4.000	7-11	0.120-0.179	70
—	SQR500711A	—	—	5.000	7-11	0.120-0.179	48
—	SQR60188A	—	—	6.000	10-14	0.083-0.134	26

Metric

Black Item No.		Tube OD	Tube Gauge	Wall Thickness	Bulk Pack Qty.
Polished	Textured	in		in	
SQR111197A	SQR111215A	20.00	12-20	0.035-0.109	2500
SQR111198A	SQR111216A	22.00	12-20	0.035-0.109	2500
SQR111199A	SQR111217A	25.00	12-20	0.035-0.109	2500
SQR111502A	SQR111540A	32.00	11-19	0.042-0.120	1500
SQR111203A	SQR111221A	40.00	11-19	0.042-0.120	500
SQR111204A	SQR111222A	45.00	11-19	0.042-0.120	500

Black Item No.		Tube OD	Tube Gauge	Wall Thickness	Bulk Pack Qty.
Polished	Textured	in		in	
SQR111205A	SQR111223A	50.00	11-19	0.042-0.120	500
SQR111207A	SQR111225A	60.00	11-19	0.042-0.120	250
SQR111810A	SQR111811A	60.00	9-14	0.083-0.149	250
SQR111506A	SQR111544A	75.00	8-14	0.083-0.164	200
SQR111209A	SQR111227A	80.00	8-14	0.083-0.164	150
SQR111210A	SQR111228A	100.00	8-14	0.083-0.164	100

LSQR Series
Square Ribbed Tube Inserts

Specifications:
- Material: High-Density Polyethylene
- Color: Black with Textured Finish

Features:
- Not recommended for load-bearing applications

Item No.	Tube Size		Tube Gauge	Wall Thickness	Bulk Pack Qty.
	in	mm		in	
LSQR061620A	0.625	15.87	16-20	0.035-0.065	6000
LSQR071620A	0.750	19.05	16-20	0.035-0.065	4000
LSQR101420A	1.000	25.40	14-20	0.035-0.083	2000
LSQR111620A	1.125	28.32	16-20	0.035-0.065	3000
LSQR121420A	1.250	31.75	14-20	0.035-0.083	1300

SQUARE INSERT GLIDES

SIG Series
Square Load Bearing Glides

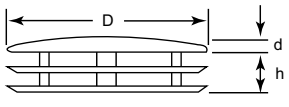
Specifications:
- Material: See Table
- Color: See Table

Features:
- Suitable for light and heavy-duty applications
- Step lead provides easy installation
- Press fit assures a secure hold in tubing

Item No.	Tube Size in	Tube Gauge	Material	Wall Thickness in	Color	Bulk Pack Qty.
SIG1100A	0.375	16	ABS	0.065	Black	5000
SIG1105A	0.375	19	ABS	0.042	Black	5000
SIG1108A	0.500	14	ABS	0.083	Black	4000
SIG1110A	0.500	16	ABS	0.065	Black	15000
SIG1115A	0.500	18	ABS	0.049	Black	15000
SIG1120A	0.625	16	ABS	0.065	Black	8000
SIG1125A	0.625	17	ABS	0.058	Black	8000
SIG1130A	0.625	18	ABS	0.049	Black	8000
SIG1135A	0.625	20	ABS	0.035	Black	8000
SIG1140A	0.695	18	ABS	0.049	Black	5000
SIG1145A	0.715	18	ABS	0.049	Black	5000
SIG1150A	0.725	11	ABS	0.120	Black	5000
SIG1155A	0.725	16	ABS	0.065	Black	5000
SIG1160A	0.750	11	ABS	0.120	Black	5800
SIG1165A	0.750	13	ABS	0.095	Black	6000
SIG1170A	0.750	15	ABS	0.072	Black	4000
SIG1175A	0.750	16	ABS	0.065	Black	5500
SIG1180A	0.750	18	ABS	0.049	Black	5500
SIG1185A	0.750	19	ABS	0.042	Black	5500
SIG1190A	0.750	20	ABS	0.035	Black	5500
SIG1200A	0.812	14	ABS	0.083	Black	4500
SIG1205A	0.812	16	ABS	0.065	Black	4500
SIG1210A	0.812	18	ABS	0.049	Black	4500
SIG1215A	0.875	11	ABS	0.120	Black	5000
SIG1220C	0.875	16	ABS	0.065	Black	4000
SIG1225A	0.875	18	ABS	0.049	Black	4000
SIG1235A	1.000	11	ABS	0.120	Black	3200
SIG1240A	1.000	14	ABS	0.083	Black	3000
SIG1244C	1.000	16	Butyrate	0.065	Clear	2800
SIG1245A	1.000	16	ABS	0.065	Black	2800

Item No.	Tube Size in	Tube Gauge	Material	Wall Thickness in	Color	Bulk Pack Qty.
SIG1250A	1.000	17	ABS	0.058	Black	2800
SIG1255A	1.000	18	ABS	0.049	Black	2800
SIG1260A	1.000	20	ABS	0.035	Black	3200
SIG1265A	1.000	22	ABS	0.035	Black	3200
SIG1270A	1.125	16	ABS	0.065	Black	2200
SIG1275A	1.125	18	ABS	0.049	Black	2200
SIG1280A	1.250	11	ABS	0.120	Black	2200
SIG1285A	1.250	12	ABS	0.109	Black	2000
SIG1290A	1.250	14	ABS	0.083	Black	1500
SIG1295A	1.250	16	ABS	0.065	Black	1700
SIG1300A	1.250	18	ABS	0.049	Black	1800
SIG1302B	1.255	19	Butyrate	0.042	Clear	1500
SIG1305A	1.500	10	ABS	0.134	Black	1800
SIG1310A	1.500	11	ABS	0.120	Black	1200
SIG1315A	1.500	12	ABS	0.109	Black	1200
SIG1320C	1.500	14	ABS	0.083	Black	1300
SIG1325A	1.500	16	ABS	0.065	Black	1100
SIG1330A	1.500	18	ABS	0.049	Black	1200
SIG1335A	1.500	20	ABS	0.035	Black	1200
SIG1340A	1.750	11	ABS	0.120	Black	1000
SIG1345A	1.750	14	ABS	0.083	Black	1000
SIG1350A	1.750	16	ABS	0.065	Black	900
SIG1353C	2.000	11	ABS	0.120	Black	1000
SIG1365A	2.000	12	ABS	0.109	Black	1000
SIG1370A	2.000	14	ABS	0.083	Black	1000
SIG1375A	2.000	16	ABS	0.065	Black	1000
SIG1380A	2.000	18	ABS	0.049	Black	1000
SIG1385A	2.500	11	ABS	0.120	Black	500
SIG1390A	3.000	11	ABS	0.120	Black	500

SQP Series
Square Ribbed Tube Inserts
Chrome Finish



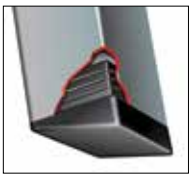
Specifications:
- Material: Low-Density Polyethylene
- Color: Black with High-Polished Metal-Finish Shell

Features:
- Polished metallic finish provides enhanced aesthetic appearance
- Horizontal ribbing allows for built-in flexibility to fit multiple tube gauges

Item No.	D in	D mm	d in	d mm	h in	h mm	Wall Thickness Tube Gauge (in)	Wall Thickness mm	Bulk Pack Qty.
SQP465341A	0.625	15.88	0.079	2.00	0.354	9.00	14-19 (.040-.080)	1.0 - 2.0	1000
SQP460959A	0.709	18.00	0.079	2.00	0.354	9.00	14-19 (.040-.080)	1.0 - 2.0	1000
SQP465340A	0.750	19.05	0.079	2.00	0.394	10.00	14-19 (.040-.080)	1.0 - 2.0	1000
SQP465343A	1.000	25.40	0.079	2.00	0.394	10.00	14-19 (.040-.080)	1.0 - 2.0	1000
SQP465342A	1.181	30.00	0.118	3.00	0.394	10.00	14-19 (.040-.080)	1.0 - 2.0	1000
SQP460964A	1.375	35.00	0.118	3.00	0.472	12.00	14-19 (.040-.080)	1.0 - 2.0	1000
SQP465344A	1.575	40.00	0.118	3.00	0.472	12.00	14-19 (.040-.080)	1.0 - 2.0	1000

SQUARE INSERT GLIDES

AFSQ Series
Square Angled Tube Inserts



Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- These angled feet are ideal for stacking chairs, children's play equipment and step ladders

Item No.	Tube Size		Tube Gauge	Wall Thickness	Degree	Bulk Pack Qty.
	in	mm		in		
AFSQ07161805A*	0.750	19.05	16-18	0.049-0.065	5°	2500
AFSQ07161825A*	0.750	19.05	16-18	0.049-0.065	25°	2500
AFSQ10162015A	1.000	25.40	16-20	0.035-0.065	15°	1000

* Has a built-in bumper

SRG Series
Square Domed Tube Glides

Specifications:
- Material: ABS
- Color: Black

Features:
- Ideal for applications with variable leg angles
- Square rocker glides fit flush with tubing outer dimensions for a clean, finished look

Item No.	Tube Size	Tube Gauge	Wall Thickness	Bulk Pack Qty.
	in		in	
SRG1010A	0.750	16	0.065	4000
SRG1020A	0.750	18	0.049	4000
SRG1030A	0.813	16	0.065	3000
SRG1115A	0.813	17	0.058	4000
SRG1120A	0.813	18	0.049	700
SRG1045A	0.875	16	0.065	3000
SRG1055A	0.875	18	0.049	2700

Item No.	Tube Size	Tube Gauge	Wall Thickness	Bulk Pack Qty.
	in		in	
SRG1075A	0.940	18	0.049	2700
SRG1080A	1.000	16	0.065	2000
SRG1100A	1.000	18	0.049	2000
SRG1125A	1.250	16	0.065	1100
SRG1135A	1.250	18	0.049	1100
SRG1145A	1.500	18	0.049	1000

DFSQ Series
Square Domed Tube Inserts

Sizing & Selector GUIDE
See Page 282

Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- Can accommodate any degree of leg angle, while the horizontal ribbed design has built-in flexibility to fit multiple tube gauge sizes

Item No.	Tube Size		Tube Gauge	Bulk Pack Qty.
	in	mm		
DFSQ111525A	0.787	20.00	18-25	2500
DFSQ081620A	0.875	22.22	16-20	1750
DFSQ101620A	1.000	25.40	16-20	1250

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THREADED INSERT GLIDES

STI Series
Square Plastic Threaded Inserts

Specifications:
- Material: Nylon
- Color: See Table

Features:
- Can be used with either adjustable feet or tilt glides

Item No.	Color	Ø Tube in	Tube Gauge	Thread Size	Bulk Pack Qty.
STI1200B	Black	0.750	16	1/4 - 20	5000
STI1215A	Natural	0.875	16	1/4 - 20	1900
STI1215B	Black	0.875	16	1/4 - 20	1900
STI1220A	Natural	1.000	16	1/4 - 20	3000
STI1240A	Natural	1.000	18	1/4 - 20	2700
STI1260A	Natural	1.000	18	5/16 - 18	2700
STI1260B	Black	1.000	18	5/16 - 18	2700
STI1270A	Natural	1.250	16	5/16 - 18	1800

TAS Series
Square Threaded All Metal Inserts

LINE EXTENSION

Specifications:
- Material: Steel with Zinc Plated Finish

Features:
- Metal ribs lock onto inside of square tube

Imperial

Item No.	Fits Tube in	Thread	Fits Tube Gauge	Bulk Pack Qty.
TAS240A	1	5/16 - 18	16 - 18	1000
TAS260A	1 - 1/4	5/16 - 18	16 - 18	500
TAS460A	1 - 1/4	3/8 - 16	16 - 18	500
TAS270A	1 - 1/2	5/16 - 18	16 - 18	500
TAS470A	1 - 1/2	3/8 - 16	16 - 18	500

Metric

Item No.	Fits Tube mm	Thread Size	Tube Gauge mm	Std Pack Qty.
499465	19	M6	1.0	200
499466	22	M6	1.0	200
499467	25	M6	1.0	200
551845	25	M8	1.2	200
499470	32	M8	1.2	200
499471	38	M8	1.2	200
551842	22	M10	1.5	200
551843	25	M10	1.5	200
499473	32	M10	1.5	200
499474	38	M10	1.5	200

SQM Series
Square Metal Threaded Inserts

Specifications:
- Material: High-Density Polyethylene with Zinc-Plated Steel-Threaded Insert
- Color: Black

Features:
- Tube inserts with internal threads to accommodate adjustable leveling mounts and feet
- Ribbed to accommodate multiple gauges

Imperial

Item No.	Tube Size	Thread Size	Tube Gauge	Wall Thickness in	Bulk Pack Qty.
SQM0150A	0.750	1/4 - 20	16 - 18	0.049 - 0.065	1000
SQM0200A	0.875	1/4 - 20	16 - 18	0.049 - 0.065	1000
SQM0300A	1.000	1/4 - 20	16 - 18	0.049 - 0.065	1000
SQM0350A	1.000	5/16 - 18	16 - 18	0.049 - 0.065	1000
SQM0400A	1.000	1/4 - 20	12 - 14	0.083 - 0.109	1000
SQM0450A	1.000	5/16 - 18	12 - 14	0.083 - 0.109	1000
SQM0500A	1.000	1/4 - 20	10 - 11	0.120 - 0.134	1000
SQM0550A	1.000	5/16 - 18	10 - 11	0.120 - 0.134	1000
SQM0600A	1.250	5/16 - 18	16 - 18	0.049 - 0.065	500
SQM0650A	1.250	3/8 - 16	16 - 18	0.049 - 0.065	500
SQM0700A	1.250	5/16 - 18	12 - 14	0.083 - 0.109	500
SQM0750A	1.250	3/8 - 16	12 - 14	0.083 - 0.109	500
SQM0800A	1.250	5/16 - 18	10 - 11	0.120 - 0.134	500
SQM0850A	1.250	3/8 - 16	10 - 11	0.120 - 0.134	500
SQM0900A	1.375	3/8 - 16	16 - 18	0.049 - 0.065	500
SQM1000A	1.500	3/8 - 16	16 - 18	0.049 - 0.065	500

Metric

Item No.	Tube Size mm	Thread Size mm	Tube Gauge mm	Wall Thickness mm	Bulk Pack Qty.
498583	19	M6	17 - 19	1.1 - 1.5	1000
498584	20	M6	17 - 19	1.1 - 1.5	1000
498585	20	M8	17 - 19	1.1 - 1.5	1000
498586	25	M6	17 - 19	1.1 - 1.5	500
498587	25	M8	17 - 19	1.1 - 1.5	500
498588	30	M8	17 - 19	1.1 - 1.5	1000
498589	30	M10	17 - 19	1.1 - 1.5	250
498590	35	M8	17 - 19	1.1 - 1.5	500
498591	35	M10	17 - 19	1.1 - 1.5	500
498592	40	M8	17 - 19	1.1 - 1.5	200
498593	40	M10	17 - 19	1.1 - 1.5	500
498594	40	M12	17 - 19	1.1 - 1.5	500
498595	50	M8	17 - 19	1.1 - 1.5	100
498596	50	M10	17 - 19	1.1 - 1.5	250
498597	50	M12	17 - 19	1.1 - 1.5	250

HEAVY DUTY THREADED INSERT GLIDES

SQH Series
Square Heavy Duty Threaded Inserts

LINE EXTENSION

Specifications:
- Material: Glass-Filled Nylon with Brass Threaded Insert
- Color: Black

Features:
- Threaded brass insert for indoor and outdoor use
- High load rating is ideal for machinery use

Imperial

Item No.	Tube Size in	Thread Size	Tube Gauge	Wall Thickness in	Max Static Load lbs	Bulk Pack Qty.
SQH0100A	1.5	3/8-16	16	0.065	1350	48
SQH0150A	1.5	1/2-13	16	0.065	1350	48
SQH0200A	1.5	5/8-11	16	0.065	1350	48
SQH0250A	1.5	3/4-10	16	0.065	1800	48
SQH0300A	1.5	3/8-16	11	0.12	1350	48
SQH0350A	1.5	1/2-13	11	0.12	1350	48
SQH0400A	1.5	5/8-11	11	0.12	1350	48
SQH0450A	1.5	3/4-10	11	0.12	1800	48
SQH0500A	2	3/8-16	16	0.065	1350	24
SQH0550A	2	1/2-13	16	0.065	1350	24
SQH0600A	2	5/8-11	16	0.065	1350	24
SQH0650A	2	3/4-10	16	0.065	2000	24
SQH0700A	2	3/8-16	12	0.109	1350	24
SQH0750A	2	1/2-13	12	0.109	1350	24
SQH0800A	2	5/8-11	12	0.109	1350	24
SQH0850A	2	3/4-10	12	0.109	2000	24

Metric

Item No.	Tube Size mm	Thread Size mm	Tube Gauge mm	Max Static Load N	Bulk Pack Qty.
1286358	30	M10	1.5	4500	48
1286359	30	M12	1.5	4500	48
1286360	30	M16	1.5	4500	48
1286361	40	M10	1.5	6000	48
1286362	40	M12	1.5	6000	48
1286363	40	M16	1.5	6000	48
1286364	40	M20	1.5	8000	48
1286365	40	M10	2	6000	48
1286366	40	M12	2	6000	48
1286367	40	M16	2	6000	48
1286368	40	M20	2	8000	48
1286369	50	M12	1.5	6000	24
1286370	50	M16	1.5	6000	24
1286371	50	M20	1.5	8500	24
1286372	50	M12	2	6000	24
1286373	50	M16	2	6000	24
1286374	50	M20	2	8500	24

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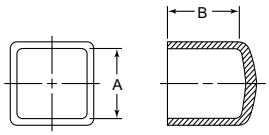
SQUARE AND ANGLE IRON CAPS

DMSQ Series
Square Vinyl End Caps



Specifications:
- Material: PVC
- Color: See Table

Features:
- Designed to fit the most popular sizes of square tubular steel
- Material flexibility will stretch to fit normal tube diameter tolerance variations
- Glossy and attractive finish makes this part ideal for use as a decorative end cap

Black Item No. 1/2" Length (B)	Bulk Pack Qty.	Black Item No. 1" Length (B)	Bulk Pack Qty.	White Item No. 1" Length (B)	Bulk Pack Qty.	A in	A mm
DMSQ0250-1/2A	5000	**DMSQ0250-1A**	6500	—	—	0.250	6.35
DMSQ0312-1/2A	5000	**DMSQ0312-1A**	5000	—	—	0.312	7.92
DMSQ0375-1/2A	5000	**DMSQ0375-1A**	5000	—	—	0.375	9.52
DMSQ0437-1/2A	5000	**DMSQ0437-1A**	5000	—	—	0.437	11.09
DMSQ0500-1/2A	5000	**DMSQ0500-1A**	4000	—	—	0.500	12.70
DMSQ0625-1/2A	3500	**DMSQ0625-1A**	2000	—	—	0.625	15.87
DMSQ0750-1/2A	3500	**DMSQ0750-1A**	2000	**DMSQ0750-1C**	2000	0.750	19.05
DMSQ1000-1/2A	2000	**DMSQ1000-1A**	1500	**DMSQ1000-1C**	1500	1.000	25.40
DMSQ1250-1/2A	2000	**DMSQ1250-1A**	1000	—	—	1.250	31.75
DMSQ1500-1/2A	1500	**DMSQ1500-1A**	500	—	—	1.500	38.10
DMSQ2000-1/2A	500	**DMSQ2000-1A**	325	—	—	2.000	50.80

SQC Series
Square Heavy Duty End Caps

Specifications:
- Material: See Table
- Color: Black

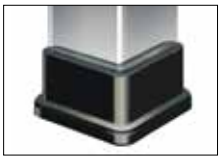
Features:
- End cap style design fits most popular sizes of square tubular steel

Item No.	Tube Size in	Tube Size mm	Material	Bulk Pack Qty.
SQC0500A	0.500	12.70	LDPE	5000
SQC1000A	1.000	25.40	ABS	1700
SQC1250A	1.250	31.75	LDPE	1200
SQC3000A	3.000	76.20	LDPE	100

AIC Series
Angle Iron Caps

Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- Angle iron caps are an affordable answer to the problem of protecting floors from the sharp edges of angle iron furniture
- Angle iron caps are also used as caps on metal bed frames and shelves and will not rust while also eliminating the cost of welding steel closures



Item No.	Leg Length in	Leg Length mm	Leg Gauge in	Leg Gauge mm	Bulk Pack Qty.
AIC1000A	1.000	25.40	0.125	3.18	2200
AIC1125A	1.250	31.74	0.125	3.18	1400
AIC1128A	1.500	38.10	0.125	3.18	1000
AIC2000A	1.290	32.78	0.125	3.18	600

ROUND TUBE INSERT GLIDES

RDR Series
Round Multi-Gauge Ribbed Tube Inserts

Specifications:
- Material: Low-Density Polyethylene
- Surface Finish: See Table
- Color: See Table

Features:
- Ideal for aesthetic or light-duty load bearing applications
- Perimeter rib design allows for easy assembly and a secure fit
- Used on a wide range of furniture and metal tubing applications

See page 282 for Sizing and Selector Guide.

Imperial

Black Item No.		White Item No.		Tube OD		Bulk Pack Qty.
Polished	Textured	Polished	Textured	in	Tube Gauge	
RDR111033A	RDR111053A	RDR111073A	—	0.500	16 - 20	2500
RDR111036A	RDR111056A	RDR111076A	—	0.750	14 - 20	1500
—	RDR081012A	—	RDR081012D	0.875	10 - 12	5000
RDR081420D	—	RDR111078A	—	0.875	14 - 20	5000
—	RDR101111A	—	—	1.000	10 - 12	2000
RDR101420D	RDR101420F	—	—	1.000	14 - 20	4000
RDR111040A	RDR111060A	RDR111080A	—	1.000	11 - 19	1000
RDR111042A	RDR111062A	RDR111082A	—	1.125	11 - 19	1000
RDR121014B	—	—	—	1.250	10 - 14	2500
RDR111044A	RDR111064A	RDR111084A	—	1.250	11 - 19	1000
RDR131418A	—	—	—	1.375	14 - 18	1200
RDR111492A	RDR111530A	—	—	1.375	11 - 19	1500
RDR150812A	—	—	—	1.500	8 - 12	1500
—	RDR151012A	—	—	1.500	10 - 12	1500
RDR111046A	RDR111066A	—	—	1.500	11 - 19	1000
RDR111495A	RDR111533A	RDR111571A	RDR111609A	1.625	11 - 19	1000
—	RDR171012A	—	—	1.750	10 - 12	1000
RDR111497A	RDR111535A	—	RDR111611A	1.750	11 - 19	1000
RDR111498A	RDR111536A	—	RDR111612A	1.875	11 - 19	800
RDR201014A	—	—	—	2.000	10 - 14	500
—	RDR201420A	—	—	2.000	14 - 18	500
RDR111049A	RDR111069A	RDR111089A	—	2.000	11 - 19	500
RDR230508B	RDR230508A	—	—	2.375	5 - 8	400
—	RDR231014A	—	—	2.375	10 - 14	400
—	RDR250812A	—	—	2.500	8 - 12	400
RDR111500A	RDR111538A	—	RDR111614A	2.500	11 - 19	250
RDR460674A	RDR465601A	—	—	2.750	8 - 14	500
—	RDR280407A	—	—	2.875	4 - 7	300
—	RDR300812A	—	—	3.000	8 - 12	250
—	RDR301418A	—	—	3.000	14 - 18	250
RDR111052A	RDR111072A	RDR111092A	—	3.000	8 - 14	250
RDR400511A	—	—	—	4.000	5 - 11	150
RDR450711A	—	—	—	4.500	7 - 11	100

Metric

Black Item No.		White Item No.	Tube OD		Bulk Pack Qty.
Polished	Textured	Textured	mm	Tube Gauge	
—	RDR111527A	—	10.00	11 - 19	2500
RDR111490A	RDR111528A	RDR111603A	12.00	14 - 20	2500
RDR111034A	—	—	13.00	14 - 20	2500
—	RDR460660A	—	15.00	14 - 20	2500
RDR111035A	RDR111055A	—	16.00	14 - 20	5000
RDR111037A	RDR111057A	—	20.00	14 - 20	1500
RDR111038A	RDR111058A	—	22.00	14 - 20	1500
RDR111043A	RDR111063A	—	30.00	11 - 19	1000

Black Item No.		White Item No.	Tube OD		Bulk Pack Qty.
Polished	Textured	Textured	mm	Tube Gauge	
RDR111044A	RDR111064A	RDR111084A	32.00	11 - 19	1000
RDR111794A	RDR111795A	—	32.00	11 - 14	1000
—	RDR111067A	—	40.00	11 - 19	1000
RDR111494A	RDR111532A	—	42.00	11 - 19	1000
RDR111496A	—	RDR111610A	45.00	11 - 19	1000
—	RDR465600A	—	55.00	11 - 19	600
RDR111050A	RDR111070A	—	60.00	11 - 19	400
—	RDR465596A	—	105.00	7 - 14	75

LRDR Series
Round Ribbed Tube Inserts

Specifications:
- Material: High-Density Polyethylene
- Color: Black with Matte Finish

Features:
- Designed for light load-bearing applications or cosmetic finishing

Item No.	Tube OD		Tube Gauge	Wall Thickness	Bulk Pack Qty.
	in	mm		in	
LRDR071620A	0.750	19.05	16 - 20	0.035 - 0.065	5500
LRDR081420A	0.875	22.22	14 - 20	0.035 - 0.083	3500
LRDR101420A	1.000	25.40	14 - 20	0.035 - 0.083	2800

Item No.	Tube OD		Tube Gauge	Wall Thickness	Bulk Pack Qty.
	in	mm		in	
LRDR111418A	1.125	28.57	14 - 18	0.035 - 0.083	2200
LRDR121620A	1.250	31.75	16 - 20	0.035 - 0.065	1500

ROUND TUBE INSERT GLIDES

RDG Series
Round Load Bearing Glides

Sizing & Selector GUIDE
See Page 282

Specifications:
- Material: See Table
- Color: Black

Features:
- Glides are designed for use as a glide or plug style closure
- A reduced diameter step-lead is provided for easy positioning and insertion
- Ideal for moderate to heavy-duty applications

Item No.	Tube OD in	Tube Gauge	Wall Thickness in	Material	Bulk Pack Qty.
RDG1100A	0.375	19	0.042	ABS	9000
RDG1105A	0.500	16	0.065	ABS	10000
RDG1110A	0.500	18	0.049	ABS	15000
RDG1115A	0.500	20	0.035	ABS	15000
RDG1120A	0.500	21	0.032	ABS	15000
RDG1125A	0.500	22	0.028	ABS	13000
RDG1127A	0.563	19	0.042	HDPE	10000
RDG1130A	0.563	20	0.035	ABS	13000
RDG1135A	0.563	22	0.028	ABS	6500
RDG1140A	0.625	11	0.120	ABS	13000
RDG1145A	0.625	12	0.109	ABS	13000
RDG1150A	0.625	13	0.095	ABS	15000
RDG1155D	0.625	14	0.083	ABS	3000
RDG1160A	0.625	15	0.072	ABS	7000
RDG1165A	0.625	16	0.065	ABS	7000
RDG1168B	0.625	17	0.058	Butyrate	10000
RDG1170A	0.625	17	0.058	ABS	8000
RDG1175A	0.625	18	0.049	ABS	8000
RDG1180A	0.625	20	0.035	ABS	5000
RDG1185A	0.625	22	0.028	ABS	8000
RDG1190A	0.750	13	0.095	ABS	6500
RDG1195C	0.750	14	0.083	ABS	1500
RDG1200A	0.750	16	0.065	ABS	7000
RDG1205A	0.750	17	0.058	ABS	8000
RDG1210A	0.750	18	0.049	ABS	7000
RDG1215A	0.750	19	0.042	ABS	6500
RDG1220A	0.750	20	0.035	ABS	6500
RDG1225A	0.750	22	0.028	ABS	3000
RDG1228B	0.875	13	0.095	LDPE	4500
RDG1230A	0.875	14	0.083	ABS	5000
RDG1235A	0.875	16	0.065	ABS	5000
RDG1237B	0.875	17	0.058	Nylon	5000
RDG1240A	0.875	18	0.049	ABS	4500
RDG1245A	0.875	19	0.042	ABS	5000
RDG1250A	0.875	20	0.035	ABS	45000
RDG1255A	1.000	12	0.109	ABS	4000
RDG1264B	1.000	14	0.083	Butyrate	4000
RDG1265A	1.000	14	0.083	ABS	4000
RDG1270A	1.000	15	0.072	ABS	4000
RDG1273B	1.000	16	0.065	Butyrate	4000
RDG1274D	1.000	16	0.065	Nylon	3500

Item No.	Tube OD in	Tube Gauge	Wall Thickness in	Material	Bulk Pack Qty.
RDG1275A	1.000	16	0.065	ABS	4000
RDG1280A	1.000	17	0.058	ABS	3500
RDG1285A	1.000	18	0.049	ABS	3500
RDG1290A	1.000	19	0.042	ABS	3500
RDG1295C	1.000	20	0.035	ABS	3500
RDG1305C	1.125	12	0.109	ABS	2500
RDG1310A	1.125	14	0.083	ABS	2800
RDG1315A	1.125	16	0.065	ABS	2800
RDG1320B	1.125	18	0.049	ABS	2800
RDG1325A	1.125	19	0.042	ABS	2800
RDG1327B	1.130	20	0.035	LDPE	2400
RDG1330A	1.250	11	0.120	ABS	2500
RDG1335C	1.250	12	0.109	ABS	2500
RDG1340A	1.250	14	0.083	ABS	2300
RDG1345A	1.250	16	0.065	ABS	2300
RDG1350D	1.250	18	0.049	ABS	2300
RDG1355A	1.375	13	0.095	ABS	1100
RDG1360A	1.375	14	0.083	ABS	2000
RDG1365A	1.375	16	0.065	ABS	2000
RDG1370C	1.375	18	0.049	ABS	2000
RDG1375A	1.375	20	0.035	ABS	1600
RDG1380A	1.500	12	0.109	ABS	1200
RDG1385A	1.500	14	0.083	ABS	1500
RDG1390A	1.500	16	0.065	ABS	1500
RDG1394B	1.500	18	0.049	Butyrate	1400
RDG1395D	1.500	18	0.049	ABS	1500
RDG1400A	1.500	19	0.042	ABS	1500
RDG1405A	1.500	20	0.035	ABS	1500
RDG1408B	1.625	16	0.065	Nylon	1400
RDG1410A	1.625	18	0.049	ABS	1000
RDG1415A	1.750	11	0.120	ABS	1100
RDG1420A	1.750	14	0.083	ABS	1100
RDG1425A	1.750	16	0.065	ABS	1100
RDG1430A	1.750	18	0.049	ABS	1100
RDG1435A	1.750	20	0.035	ABS	1000
RDG1445A	2.000	11	0.120	ABS	850
RDG1455A	2.000	16	0.065	ABS	850
RDG1460A	2.000	18	0.049	ABS	850
RDG1465A	2.000	20	0.035	ABS	1000
RDG1470A	2.500	18	0.049	ABS	500
RDG1475A	3.000	13	0.095	ABS	500

RLI Series
Round Low Profile Insert Glides

Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- Lightweight insert glides present a low-cost option for neatly finishing steel tubes

Item No.	Tube OD in	Tube OD mm	Tube Gauge	Wall Thickness in	Bulk Pack Qty.
RLI0516A	0.500	12.70	16	0.065	10000
RLI0518A	0.500	12.70	18	0.049	10000
RLI0520A	0.500	12.70	20	0.035	10000
RLI0616A	0.625	15.87	16	0.065	10000
RLI0618A	0.625	15.87	18	0.049	10000
RLI0716A	0.750	19.05	16	0.065	5000
RLI0718A	0.750	19.05	18	0.049	5000
RLI0816A	0.875	22.22	16	0.065	5000
RLI0818A	0.875	22.22	18	0.049	5000
RLI1016A	1.000	25.40	16	0.065	5000

Item No.	Tube OD in	Tube OD mm	Tube Gauge	Wall Thickness in	Bulk Pack Qty.
RLI1018A	1.000	25.40	18	0.049	5000
RLI1116A	1.125	28.57	16	0.065	4000
RLI1118A	1.125	28.57	18	0.049	4000
RLI1216A	1.250	31.75	16	0.065	2500
RLI1218A	1.250	31.75	18	0.049	2500
RLI1516A	1.500	38.10	16	0.065	2000
RLI1518A	1.500	38.10	18	0.049	2000
RLI1716A	1.750	44.45	16	0.065	1500
RLI1718A	1.750	44.45	18	0.049	1500
RLI2018A	2.000	50.80	18	0.049	800

ROUND TUBE INSERT GLIDES

Round Metric Low Profile Insert Glides

Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- Low profile design allows for a finishing component with limited space

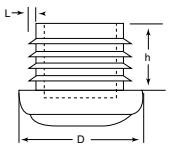
Item No.	Tube OD mm	Tube Gauge	Wall Thickness mm	Bulk Pack Qty.
466562	10	16 - 20	0.80 - 1.50	5000
466563	12	14 - 16	1.50 - 2.00	5000
RDR466565A	15	16 - 20	0.80 - 2.00	2000
466568	19	16 - 20	0.80 - 2.00	2000
466569	20	13 - 20	0.80 - 2.50	2000
466570	22	13 - 20	1.00 - 2.50	2000
466571	24	13 - 20	1.00 - 2.50	2000
466572	25	13 - 20	1.00 - 2.50	3500
466573	28	13 - 20	0.80 - 2.50	3000
466574	30	13 - 20	0.80 - 2.50	2500

Item No.	Tube OD mm	Tube Gauge	Wall Thickness mm	Bulk Pack Qty.
466575	32	13 - 20	0.80 - 2.50	2250
466576	35	11 - 19	1.00 - 3.00	1750
466577	38	11 - 19	1.00 - 3.00	1500
466578	40	11 - 19	1.00 - 3.00	1500
460789	42	13 - 20	0.80 - 2.50	1250
466579	45	11 - 19	1.00 - 3.00	1000
466580	50	13 - 20	1.00 - 2.50	800
466581	55	11 - 19	1.00 - 3.00	700
466582	60	11 - 16	1.50 - 3.00	500

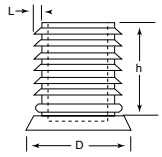
GSB & GFB Series
Round Ribbed Inserts
Felt and Steel Based

Specifications:
- Insert Material: Nylon
- Base Material: See Table
- Color: Black

Felt	Steel
Wood and other soft surfaces	Smooth surfaces



GFB Series



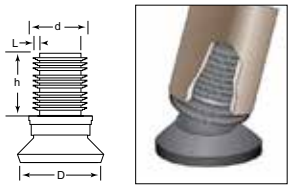
GSB Series

Item No. GFB Series Felt Based	Bulk Pack Qty.	Item No. GSB Series Steel Based	Bulk Pack Qty	D in	D mm	h in	h mm	L= Fits Wall (in)	L= Fits Gauge
GFB465536A	1750	**GSB465537A**	2000	0.787	20.00	0.748	19.00	0.060 - 0.090	14 - 17
—	2500	**GSB465539A**	1750	0.866	22.00	0.748	19.00	0.060 - 0.090	14 - 17
GFB465540A	2250	**GSB465541A**	1250	0.984	25.00	0.748	19.00	0.060 - 0.090	14 - 17
GFB465542A	1500	**GSB465543A**	1000	1.102	28.00	0.748	19.00	0.060 - 0.090	14 - 17
GFB465544A	1250	**GSB465545A**	900	1.181	30.00	0.748	19.00	0.060 - 0.090	14 - 17
GFB465546A	1250	**GSB465547A**	800	1.260	32.00	0.748	19.00	0.060 - 0.090	14 - 17

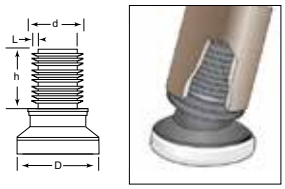
TSNB, TSFB & TSSB SERIES
Round Ribbed Inserts
Nylon, Felt & Steel Based

Nylon	Felt	Steel
Hard surfaces	Wood and other soft surfaces	Smooth surfaces

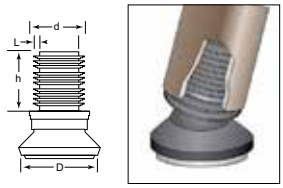
Specifications:
- Insert Material: Nylon
- Base Material: See Table
- Color: Black



TSNB Series



TSSB Series



TSFB Series

Item No. TSNB Series Nylon Based	Bulk Pack Qty.	Item No. TSFB Series Felt Based	Bulk Pack Qty.	Item No. TSSB Series Steel Based	Bulk Pack Qty.	D in	D mm	d in	d mm	h in	h mm	L Wall Thickness in	L Tube Gauge
—	1250	**TSFB465548A**	1500	**TSSB465549A**	1250	0.984	25.00	0.748	19.00	0.965	24.50	0.060 - 0.090	14 - 17
TSNB465553A	1000	**TSFB465551A**	1250	**TSSB465552A**	1250	0.984	25.00	0.787	20.00	0.965	24.50	0.060 - 0.090	14 - 17
TSNB465556A	1000	**TSFB465554A**	1000	**TSSB465555A**	1000	0.984	25.00	0.866	22.00	0.965	24.50	0.060 - 0.090	14 - 17
—	800	**TSFB465557A**	800	**TSSB465558A**	1000	0.984	25.00	0.984	25.00	0.965	24.50	0.060 - 0.090	14 - 17
TSNB465562A	800	**TSFB465560A**	800	**TSSB465561A**	1250	0.984	25.00	1.102	28.00	0.965	24.50	0.060 - 0.090	14 - 17
TSNB465565A	1000	**TSFB465563A**	625	**TSSB465564A**	625	1.181	30.00	0.748	19.00	0.965	24.50	0.060 - 0.090	14 - 17
TSNB465568A	1000	**TSFB465566A**	500	**TSSB465567A**	500	1.181	30.00	0.787	20.00	0.965	24.50	0.060 - 0.090	14 - 17
TSNB465571A	800	**TSFB465570A**	400	**TSSB465569A**	400	1.181	30.00	0.866	22.00	0.965	24.50	0.060 - 0.090	14 - 17
TSNB465574A	800	**—**	—	**TSSB465572A**	400	1.181	30.00	0.984	25.00	0.965	24.50	0.060 - 0.090	14 - 17
TSNB465577A	800	**TSFB465575A**	350	**TSSB465576A**	375	1.181	30.00	1.102	28.00	0.965	24.50	0.060 - 0.090	14 - 17

ROUND TUBE INSERT GLIDES

BI & LBI Series
Round Domed Tube Glides

Sizing & Selector
GUIDE
See Page 282

Specifications:
- Material: See Table
- Color: Black

Features:
- Provides a neat finish for steel tubing

Item No.	Material	Tube OD in	Tube OD mm	Tube Gauge	Wall Thickness in	Bulk Pack Qty.
BI1000A	ABS	0.625	15.88	18	0.049	10000
BI1100A	ABS	0.750	19.05	15	0.072	3000
LBI1130A	LDPE	0.750	19.05	16	0.065	5500
LBI1132A	LDPE	0.750	19.05	16	0.065	5500
BI1110A	ABS	0.875	22.23	14	0.083	3500
LBI1140A	LDPE	0.875	22.23	14	0.083	3500
BI1120A	ABS	0.875	22.23	16	0.065	3500
BI1130A	ABS	0.875	22.23	20	0.035	4000
BI1140A	ABS	1.000	25.40	14	0.083	2700
BI1150A	ABS	1.000	25.40	16	0.065	2500
LBI1180A	LDPE	1.000	25.40	16	0.065	3000
BI1160A	ABS	1.000	25.40	18	0.049	2500

Item No.	Material	Tube OD in	Tube OD mm	Tube Gauge	Wall Thickness in	Bulk Pack Qty.
LBI1190A	LDPE	1.000	25.40	18	0.049	3100
BI1170A	ABS	1.000	25.40	20	0.035	2600
BI1180A	ABS	1.125	28.58	12	0.109	2000
BI1200A	ABS	1.125	28.58	16	0.065	2500
BI1210A	ABS	1.125	28.58	18	0.049	1600
BI1220A	ABS	1.228	31.19	14	0.083	1600
BI1230A	ABS	1.250	31.75	16	0.065	1500
BI1240A	ABS	1.375	34.93	14	0.083	1200
BI1250A	ABS	1.500	38.10	11	0.120	1000
BI1260A*	ABS	1.500	38.10	14	0.083	1000
BI1270A	ABS	1.500	38.10	16	0.065	1000

* This part has a textured (not polished) finish

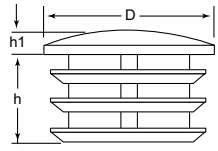
DFRD Series
Round Domed Tube Inserts

Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- Can accommodate any degree of leg angle, while the horizontal ribbed design has built-in flexibility to fit multiple tube gauge sizes

Item No.	Tube OD in	Tube OD mm	Tube Gauge	Wall Thickness in	Bulk Pack Qty.
DFRD111522A	0.875	22.22	14 - 20	0.035 - 0.083	2000
DFRD121620A	1.250	31.75	14 - 18	0.049 - 0.083	2000

RDP Series
Round Ribbed Tube Inserts
Chrome Finish



Specifications:
- Material: Low-Density Polyethylene
- Color: Black with High-Polished Metal-Finish Shell

Features:
- Polished metallic finish provides enhanced aesthetic appearance
- Horizontal ribbing allows for built-in flexibility to fit multiple tube gauges

Item No.	D in	D mm	h in	h mm	h1 in	h1 mm	Wall Thickness Tube Gauge (in)	Wall Thickness mm	Bulk Pack Qty.
RDP465335A	0.512	13.00	0.315	8.00	0.079	2.00	14-19 (.040-.080)	1.0-2.0	1000
RDP463586A	0.630	16.00	0.394	10.00	0.079	2.00	14-19 (.040-.080)	1.0-2.0	2000
RDP465333A	0.709	18.00	0.394	10.00	0.079	2.00	14-19 (.040-.080)	1.0-2.0	2000
RDP465336A	0.750	19.05	0.394	10.00	0.079	2.00	14-19 (.040-.080)	1.0-2.0	1000
RDP465338A	0.787	20.00	0.394	10.00	0.118	3.00	14-19 (.040-.080)	1.0-2.0	3000
RDP465334A	0.866	22.00	0.433	11.00	0.118	3.00	14-19 (.040-.080)	1.0-2.0	3000
RDP462994A	0.984	25.00	0.591	15.00	0.118	3.00	14-19 (.040-.080)	1.0-2.0	2000
RDP463587A	1.102	28.00	0.591	15.00	0.118	3.00	14-19 (.040-.080)	1.0-2.0	500
RDP463020A	1.181	30.00	0.630	16.00	0.118	3.00	14-19 (.040-.080)	1.0-2.0	500
RDP463588A	1.260	32.00	0.630	16.00	0.118	3.00	14-19 (.040-.080)	1.0-2.0	250
RDP463021A	1.378	35.00	0.630	16.00	0.118	3.00	14-19 (.040-.080)	1.0-2.0	500
RDP465337A	1.496	38.00	0.630	16.00	0.118	3.00	14-19 (.040-.080)	1.0-2.0	250
RDP463022A	1.575	40.00	0.630	16.00	0.118	3.00	14-19 (.040-.080)	1.0-2.0	250
RDP465339A	1.772	45.00	0.630	16.00	0.118	3.00	14-19 (.040-.080)	1.0-2.0	250
RDP463023A	1.969	50.00	0.472	12.00	0.118	3.00	16-17 (.065 - 0.058)	1.50	200
RDP465332A	2.362	60.00	0.472	12.00	0.118	3.00	16-17 (.065 - 0.058)	1.50	200

ROUND THREADED INSERT GLIDES

TAR Series
Round Threaded All Metal Inserts

LINE EXTENSION

Specifications:
- Material: Steel with Zinc plated finish

Features:
- Metal ribs lock onto inside of round tube

Imperial

Item No.	Tube OD in	Thread Size	Tube Gauge	Bulk Pack Qty.
TAR010A	5/8	1/4 - 20	16 - 18	1000
TAR020A	3/4	1/4 - 20	16 - 18	1000
TAR030A	7/8	1/4 - 20	16 - 18	1000
TAR230A	7/8	5/16 - 18	16 - 18	1000
TAR040A	1	1/4 - 20	16 - 18	1000
TAR240A	1	5/16 - 18	16 - 18	1000
TAR260A	1-1/4	5/16 - 18	16 - 18	500
TAR460A	1-1/4	3/8 - 16	16 - 18	500
TAR270A	1-1/2	5/16 - 18	16 - 18	500
TAR470A	1-1/2	3/8 - 16	16 - 18	500

Metric

Item No.	Tube OD mm	Thread Size	Tube Gauge mm	BulkPack Qty.
499455	19	M6	1	200
499456	22	M6	1	200
499457	25	M6	1	200
551836	51	M6	1.2	200
499458	25	M8	1.2	200
499460	32	M8	1.2	200
499461	38	M8	1.2	200
551837	51	M8	1.2	200
551838	25	M10	1.2	200
499463	32	M10	1.5	200
499464	38	M10	1.5	200
551839	51	M10	1.5	200

LRT & RTI Series
Round Plastic Threaded Inserts

Specifications:
- Material: See Table
- Color: See Table

Features:
- Accommodates adjustable leveling mounts and feet

Item No.	Color	Material	Tube OD in	Tube Gauge	Thread Size	Bulk Pack Qty.
LRT1100A	Natural	HDPE	0.625	18	1/4 - 20	4200
LRT1100B	Black	HDPE	0.625	18	1/4 - 20	4200
RTI1100A	Natural	Nylon	0.750	17	1/4 - 20	4000
RTI1100B	Black	Nylon	0.750	17	1/4 - 20	4000
LRT1110A	Natural	HDPE	0.750	18	1/4 - 20	4000
LRT1120A	Natural	HDPE	0.875	18	1/4 - 20	3800
LRT1130A	Natural	HDPE	1.000	16	1/4 - 20	3500
RTI1210A	Natural	Nylon	1.000	16	1/4 - 20	2000
LRT1140A	Natural	HDPE	1.000	18	1/4 - 20	3000

ROUND THREADED INSERT GLIDES

RDH Series
Round Heavy Duty Threaded Inserts

LINE EXTENSION

Specifications:
- Material: Glass-Filled Nylon with Brass Threaded Insert
- Color: Black

Features:
- Threaded brass insert for indoor and outdoor use
- High load rating is ideal for machinery use

Imperial

Item No.	Tube Size in	Thread Size	Tube Gauge	Wall Thickness in	Max Static Load N	Bulk Pack Qty.
RDH0100A	1.500	3/8 - 16	16	0.065	1100	48
RDH0150A	1.500	1/2 - 13	16	0.065	1100	48
RDH0200A	1.500	5/8 - 11	16	0.065	1100	48
RDH0250A	1.500	3/4 - 10	16	0.065	1100	48
RDH0300A	2.000	3/8 - 16	16	0.065	1250	24
RDH0350A	2.000	1/2 - 13	16	0.065	1250	24
RDH0400A	2.000	5/8 - 11	16	0.065	1250	24
RDH0450A	2.000	3/4 - 10	16	0.065	2000	24
RDH0500A	2.000	3/8 - 16	12	0.109	1250	24
RDH0550A	2.000	1/2 - 13	12	0.109	1250	24
RDH0600A	2.000	5/8 - 11	12	0.109	1250	24
RDH0650A	2.000	3/4 - 10	12	0.109	2000	24

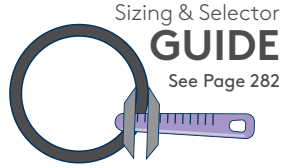
Metric

Item No.	Tube Size mm	Thread Size mm	Tube Gauge mm	Max Static Load N	Bulk Pack Qty.
1286377	30	M10	1	4500	48
1286378	30	M12	1	4500	48
1286379	30	M16	1	4500	48
1286380	38	M10	1.5	5000	48
1286381	38	M12	1.5	5000	48
1286382	38	M16	1.5	5000	48
1286383	42	M10	1.5	5000	48
1286384	42	M12	1.5	5000	48
1286385	42	M16	1.5	5000	48
1286386	42	M20	1.5	5000	48
1286387	48	M10	1.5	5500	24
1286388	48	M12	1.5	5500	24
1286389	48	M16	1.5	5500	24
1286390	48	M20	1.5	8500	24
1286391	50	M12	1.5	5500	24
1286392	50	M16	1.5	5500	24
1286393	50	M20	1.5	8500	24

RDM Series
Round Metal Threaded Inserts

Specifications:
- Material: High-Density Polyethylene with Zinc-Plated Steel-Threaded Insert
- Color: Black

Features:
- Tube inserts with internal threads to accommodate adjustable leveling mounts and feet
- Ribbed to accommodate multiple gauges



Imperial

Item No.	Tube Size	Thread Size	Gauge	Wall Thickness in	Bulk Pack Qty.
RDM0100A	0.750	1/4 - 20	16 - 18	0.049 - 0.065	1000
RDM0150A	0.875	1/4 - 20	16 - 18	0.049 - 0.065	1000
RDM0200A	0.875	1/4 - 20	12 - 14	0.083 - 0.109	1000
RDM0250A	0.875	1/4 - 20	10 - 11	0.120 - 0.134	1000
RDM0300A	1.000	1/4 - 20	16 - 18	0.049 - 0.065	1000
RDM0350A	1.000	5/16 - 18	16 - 18	0.049 - 0.065	1000
RDM0400A	1.000	1/4 - 20	12 - 14	0.083 - 0.109	750
RDM0450A	1.000	5/16 - 18	12 - 14	0.083 - 0.109	750
RDM0500A	1.000	1/4 - 20	10 - 11	0.120 - 0.134	750
RDM0550A	1.000	5/16 - 20	10 - 11	0.120 - 0.134	750
RDM0600A	1.125	5/16 - 18	16 - 18	0.049 - 0.065	500
RDM0650A	1.125	3/8 - 16	16 - 18	0.049 - 0.065	500
RDM0700A	1.250	5/16 - 18	16 - 18	0.049 - 0.065	500
RDM0750A	1.250	3/8 - 16	16 - 18	0.049 - 0.065	500
RDM0800A	1.250	5/16 - 18	12 - 14	0.083 - 0.109	500
RDM0950A	1.375	3/8 - 16	16 - 18	0.049 - 0.065	500
RDM1050A	1.500	5/16 - 18	16 - 18	0.049 - 0.065	500
RDM1100A	1.500	3/8 - 16	16 - 18	0.049 - 0.065	500
RDM1150A	1.500	5/16 - 18	12 - 14	0.083 - 0.109	500
RDM1200A	1.500	3/8 - 16	12 - 14	0.083 - 0.109	500
RDM2000A	2.000	5/16 - 18	14 - 16	0.065 - 0.083	500
RDM2050A	2.000	3/8 - 16	14 - 16	0.065 - 0.083	500

Metric

Item No.	Tube Size mm	Thread Size mm	Gauge	Wall Thickness mm	Bulk Pack Qty.
498560	19	M6	17 - 19	1.1 - 1.5	1000
498561	20	M6	17 - 19	1.1 - 1.5	1000
498562	20	M8	17 - 19	1.1 - 1.5	1000
498563	25	M6	17 - 19	1.1 - 1.5	500
498564	25	M8	17 - 19	1.1 - 1.5	1000
498565	30	M8	17 - 19	1.1 - 1.5	500
498566	30	M10	17 - 19	1.1 - 1.5	500
498567	32	M8	17 - 19	1.1 - 1.5	500
498568	32	M10	17 - 19	1.1 - 1.5	1000
498569	35	M8	17 - 19	1.1 - 1.5	500
498570	35	M10	17 - 19	1.1 - 1.5	250
498571	38	M8	17 - 19	1.1 - 1.5	250
498572	38	M10	17 - 19	1.1 - 1.5	500
498573	38	M12	17 - 19	1.1 - 1.5	500
498574	40	M8	17 - 19	1.1 - 1.5	250
498575	40	M10	17 - 19	1.1 - 1.5	250
498576	40	M12	17 - 19	1.1 - 1.5	500
498577	50	M8	17 - 19	1.1 - 1.5	100
498578	50	M10	17 - 19	1.1 - 1.5	500
498579	50	M12	17 - 19	1.1 - 1.5	100
498580	60	M8	17 - 19	1.1 - 1.5	250
498581	60	M10	17 - 19	1.1 - 1.5	100
498582	60	M12	17 - 19	1.1 - 1.5	100

ROUND INSERT GLIDES / ROUND FERRULE CAPS

RAG Series
Round Angled Tube Inserts

Specifications:
- Material: Nylon
- Color: See Table

Features:
- Ideal for applications with fixed leg angles
- Round angle insert glides fit flush with tubing outer dimensions for a clean, finished look
- Ideal for load bearing applications

Item No.		Tube OD	Tube Gauge	Wall Thickness		Bulk Pack Qty.
Black	Natural	in		in	Degree	
RAG1220A	RAG1220B	0.750	16	0.065	25.5°	2500
RAG1240A	RAG1240B	0.875	16	0.065	19°	3500
RAG1260A	RAG1260B	0.875	17	0.058	19°	3500
RAG1270A	RAG1270B	1.000	16	0.065	12°	3200
—	RAG1280B	1.000	16	0.065	19°	3000
RAG1310A	RAG1310B	1.000	18	0.049	12°	3000

Item No.		Tube OD	Tube Gauge	Wall Thickness		Bulk Pack Qty.
Black	Natural	in		in	Degree	
—	RAG1320B	1.000	18	0.049	19°	3000
RAG1325A	RAG1325B	1.125	16	0.065	15°	2000
RAG1340A	RAG1340B	1.250	16	0.065	15°	1800
RAG1350A	RAG1350B	1.250	17	0.058	7°	900
RAG1360A	RAG1360B	1.250	18	0.049	15°	1200
RAG1375A	RAG1375B	1.500	16	0.065	19°	900

HLD Series
High Line Domed Ferrule Caps

Specifications:
- Material: Elastomeric Polyethylene
- Color: See Table

Features:
- High-line domed caps are tall and durable
- Ideal for non-skid applications
- Thinner wall section results in ease of installation

Item No.		Tube OD		Bulk Pack Qty.
Black	White	in	mm	
HLD0750A	HLD0750C	0.750	19.05	1100
HLD0875A	HLD0875C	0.875	22.22	1100
HLD1000A	HLD1000C	1.000	25.40	2000

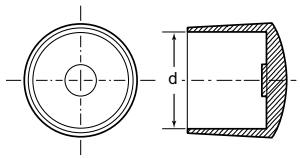
HDC Series
Heavy Duty Ferrule Caps

Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- Style A – Low-silhouette cap for general applications (1/2" height)
- Style B – High-line cap for heavy-duty applications (1" height)
- Style C – Heavy-duty caps, designed for institutional applications, incorporate a thick internal ledge to resist cut-thru by sharp tubing ends (1" height)

Item No.	Tube OD		Style	Bulk Pack Qty.
	in	mm		
HDC0375A	0.375	9.53	B	10000
HDC0750A	0.750	19.05	A	6500
HDC0875A	0.875	22.23	B	3000
HDC1125A	1.125	28.58	C	650
HDC1250A	1.250	31.75	A	1800
HDC1500A	1.500	38.10	A	1300

FRD Series
Round Ferrule Caps



Item No.	Tube OD (d)	Bulk Pack Qty.
	in	
FRD0437A	0.437	10000
FRD0500A	0.500	10000
FRD0625A	0.625	5000
FRD0750A	0.750	4000
FRD0875A	0.875	2500
FRD1000A	1.000	1500
FRD1125A	1.125	1000
FRD1250A	1.250	1000
FRD1500A	1.500	500
FRD1750A	1.750	500
FRD2000A	2.000	300
FRD3000A	3.000	150

Specifications:
- Material: Low-Density Polyethylene
- Color: Black

Features:
- Provides a neat finish to products manufactured from tubular steel

ROUND TUBE CAPS

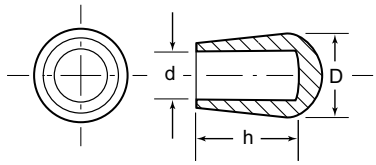
RSC/LLD Series
Round End Caps

Specifications:
- Material: Low-Density Polyethylene (RSC) or Elastomeric Polyethylene (LLD)
- Color: Black

Features:
- An integrated step lead permits fast positioning and quick assembly for an economical and attractive way of finishing the end of a rod or tube
- The LLD caps have a thick rounded base for long wear and use on a wide range of leg angles

Item No.	Tube OD in	Bulk Pack Qty.
RSC0375A	0.375	12000
RSC0500A	0.500	7000
RSC0625A	0.625	5000
RSC0750A	0.750	3000
RSC0875A	0.875	3000
RSC1000A	1.000	2500
LLD1000A	1.000	1500
RSC1125A	1.125	1600
RSC1250A	1.250	1800

FTP Series
Round Tapered Ferrule Caps

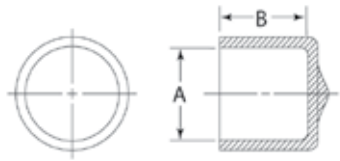


Specifications:
- Material: See Table
- Color: Black

Features:
- Tapered ferrules are often used as a safety cap on protruding steel rods or bars

Item No.	Tube OD (d) in	h in	D in	Material	Bulk Pack Qty.
FTP0187A	0.187	0.468	0.406	PVC	10000
FTP0250A	0.250	0.468	0.406	PVC	10000
FTP0312A	0.312	0.562	0.500	PVC	10000
FTP0312LPA	0.312	0.906	0.516	LDPE	5000
FTP0375A	0.375	0.625	0.594	PVC	5000
FTP0500LPA	0.500	0.906	0.735	LDPE	4000

DM Series
Round Vinyl End Caps



Specifications:
- Material: PVC
- Color: White

Features:
- Designed to fit standard tube dimension
- Glossy Finish

Item No.	Tube OD in	B in	Bulk Pack Qty.
DM0750-1H	3/4	1	2500
DM0875-1G	7/8	1	2500
DM1000-1C	1	1	2000

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RECTANGLE TUBE INSERT GLIDES

RCR Series
Rectangular Ribbed Tube Inserts

Specifications:
- Material: Low-Density Polyethylene
- Surface Finish: See Table
- Color: See Table

Features:
- Perimeter rib design allows for easy assembly and secure fit
- Tube inserts fit a wider gauge range

Imperial

Item No.	Color	Surface Finish	Tube Size in	Tube Gauge	Bulk Pack Qty.
RCR111339A	Black	Polished	1.000 x 0.500	16 - 20	1000
RCR111356A	Black	Textured	1.000 x 0.500	16 - 20	1000
RCR111508A	Black	Polished	1.375 x 0.625	11 - 19	2500
RCR111546A	Black	Textured	1.375 x 0.625	11 - 19	2500
RCR111622A	White	Textured	1.375 x 0.625	11 - 19	2500
RCR111343A	Black	Polished	1.500 x 0.750	11 - 19	1000
RCR111360A	Black	Textured	1.500 x 0.750	11 - 19	1000
RCR111377A	White	Polished	1.500 x 0.750	11 - 19	1000
RCR111510A	Black	Polished	1.500 x 1.000	11 - 19	2000
RCR111548A	Black	Textured	1.500 x 1.000	11 - 19	2000
RCR111624A	White	Textured	1.500 x 1.000	11 - 19	2000
RCR111348A	Black	Polished	2.000 x 1.000	11 - 19	1000
RCR111365A	Black	Textured	2.000 x 1.000	11 - 19	1000
RCR111382A	White	Polished	2.000 x 1.000	11 - 19	1000
RCR111512A	Black	Polished	2.000 x 1.250	11 - 19	1000
RCR111550A	Black	Textured	2.000 x 1.250	11 - 19	1000
RCR111626A	White	Textured	2.000 x 1.250	11 - 19	1000
RCR25101618A	Black	Polished	2.500 x 1.000	16 - 18	1000
RCR25151216A	Black	Polished	2.500 x 1.500	12 - 16	500
RCR111514A	Black	Polished	3.000 x 1.500	8 - 14	250
RCR111552A	Black	Textured	3.000 x 1.500	8 - 14	250
RCR111628A	White	Textured	3.000 x 1.500	8 - 14	250
RCR111516A	Black	Polished	3.000 x 2.000	8 - 14	250
RCR111554A	Black	Polished	3.000 x 2.000	8 - 14	250

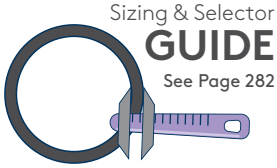
Metric

Item No.	Color	Finish	Tube Size mm	Tube Gauge	Bulk Pack Qty.
RCR111338A	Black	Polished	25 x 10	16 - 20	2000
RCR111355A	Black	Textured	25 x 10	16 - 20	2000
RCR199254A	Black	Polished	30 x 10	17 - 20	5000
RCR111340A	Black	Polished	30 x 15	11 - 19	1000
RCR111357A	Black	Textured	30 x 15	11 - 19	1000
RCR111341A	Black	Polished	30 x 20	11 - 19	1000
RCR111358A	Black	Textured	30 x 20	11 - 19	1000
RCR111509A	Black	Polished	35 x 20	11 - 19	2000
RCR111547A	Black	Textured	35 x 20	11 - 19	2000
RCR466544A	Black	Textured	40 x 15	14 - 17	1000
RCR111344A	Black	Polished	40 x 20	11 - 19	1000
RCR111361A	Black	Textured	40 x 20	11 - 19	1000
RCR111511A	Black	Polished	40 x 25	8 - 14	1500
RCR111549A	Black	Textured	40 x 25	8 - 14	1500
RCR111481A	Black	Polished	60 x 30	11 - 19	500
RCR111482A	Black	Textured	60 x 30	11 - 19	500
RCR111802A	Black	Polished	60 x 40	11 - 19	500
RCR111803A	Black	Textured	60 x 40	11 - 19	500
RCR111351A	Black	Polished	60 x 40	8 - 14	500
RCR111368A	Black	Textured	60 x 40	8 - 14	500
RCR460727A	Black	Textured	70 x 25	14 - 19	500
RCR199283A	Black	Textured	75 x 25	14 - 16	500
RCR111515A	Black	Polished	75 x 50	8 - 14	250
RCR111553A	Black	Textured	75 x 50	8 - 14	250
RCR111474A	Black	Textured	80 x 40	11 - 19	250
RCR111353A	Black	Polished	80 x 50	8 - 14	250
RCR111370A	Black	Textured	80 x 50	8 - 14	250
RCR460736A	Black	Textured	90 x 40	8 - 14	300
RCR199231A	Black	Textured	100 x 40	8 - 14	250
RCRM10502040A	Black	Textured	100 x 50	10 - 14	200
RCR460743A	Black	Textured	120 x 30	13 - 19	300
RCR460749A	Black	Textured	150 x 50	8 - 14	100

RTG Series
Rectangular Load Bearing Glides

Specifications:
- Material: ABS
- Color: Black

Features:
- Suitable for heavy-duty applications
- Step lead provides for easy installation
- Press fit assures a secure hold in tubing



See Page 282

Item No.	Tube Size in	Tube Gauge	Wall Thickness in	Bulk Pack Qty.
RTG1100A	0.500 x 1.000	16	0.065	6000
RTG1110A	0.500 x 1.000	18	0.049	3800
RTG1120A	0.500 x 1.250	16	0.065	5000
RTG1150A	0.500 x 1.500	16	0.065	4000
RTG1160A	0.500 x 1.500	18	0.049	4000
RTG1190A	0.750 x 1.250	18	0.049	2800
RTG1210A	0.750 x 1.500	14	0.083	2500
RTG1220A	0.750 x 1.500	16	0.065	2200
RTG1230A	0.750 x 1.500	18	0.049	2200
RTG1240A	0.750 x 2.000	16	0.065	2000
RTG1250A	1.000 x 1.500	11	0.120	2000
RTG1270A	1.000 x 1.500	14	0.083	2000
RTG1280A	1.000 x 1.500	16	0.065	1800
RTG1290A	1.000 x 1.500	18	0.049	2100
RTG1310A	1.000 x 2.000	11	0.120	1400
RTG1340A	1.000 x 2.000	14	0.083	1400
RTG1350A	1.000 x 2.000	16	0.065	1200
RTG1359B	1.000 X 2.000	17	0.058	1400
RTG1370A	1.000 x 2.000	18	0.049	1400
RTG1390A	1.000 x 3.000	11	0.120	1300
RTG1400A	1.000 x 3.000	14	0.083	1300

Item No.	Tube Size in	Tube Gauge	Wall Thickness in	Bulk Pack Qty.
RTG1410A	1.000 x 3.000	16	0.065	1300
RTG1420A	1.250 x 2.000	12	0.109	1200
RTG1430A	1.250 x 2.000	14	0.083	800
RTG1440A	1.250 x 2.000	16	0.065	800
RTG1450A	1.500 x 2.000	11	0.120	900
RTG1460A	1.500 x 2.000	14	0.083	900
RTG1470A	1.500 x 2.000	15	0.072	900
RTG1480A	1.500 x 2.000	16	0.065	900
RTG1490A	1.500 x 2.500	11	0.120	500
RTG1500A	1.500 x 2.500	12	0.109	600
RTG1510A	1.500 x 2.500	16	0.065	900
RTG1521A	1.500 x 3.000	11	0.120	900
RTG1530A	1.500 x 3.000	14	0.083	1000
RTG1540A	1.500 x 3.000	16	0.065	500
RTG1550A	1.500 x 4.000	16	0.065	500
RTG1560A	2.000 x 3.000	11	0.120	700
RTG1570A	2.000 x 3.000	14	0.083	700
RTG1580B	2.000 x 4.000	11	0.120	350
RTG1590B	2.000 x 4.000	13	0.095	350
RTG1600B	2.000 x 4.000	16	0.065	350

THREADED INSERTS

RCM Series
Rectangular Metal Threaded Inserts

Specifications:
- Material: High-Density Polyethylene with Zinc-Plated Steel-Threaded Insert
- Color: Black

Features:
- Tube inserts with internal threads to accommodate adjustable leveling mounts and feet
- Ribbed to accommodate multiple gauges

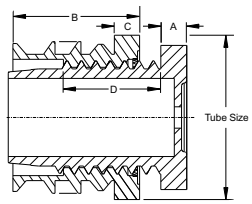
Imperial

Item No.	Tube Size in	Thread Size in	Tube Gauge in	Wall Thickness in	Bulk Pack Qty.
RCM0150A	0.75 x 1.50	1/4 - 20	16 - 18	0.049 - 0.065	500
RCM0250A	1.00 x 1.50	1/4 - 20	16 - 18	0.049 - 0.065	500
RCM0300A	1.00 x 1.50	5/16 - 18	16 - 18	0.049 - 0.065	500
RCM0350A	2.00 x 1.00	5/16 - 18	16 - 18	0.049 - 0.065	250
RCM0400A	2.00 x 1.00	5/16 - 18	14 - 16	0.065 - 0.083	250
RCM0600A	3.00 x 1.50	3/8 - 16	14 - 16	0.065 - 0.083	250

Metric

Item No.	Tube Size mm	Thread Size mm	Tube Gauge mm	Wall Thickness mm	Bulk Pack Qty.
498598	30 x 20	M8	17 - 19	1.1 - 1.5	500
498599	30 x 20	M10	17 - 19	1.1 - 1.5	1000
498600	40 x 20	M8	17 - 19	1.1 - 1.5	250
498601	40 x 20	M10	17 - 19	1.1 - 1.5	500
498602	40 x 30	M8	17 - 19	1.1 - 1.5	500
498603	40 x 30	M10	17 - 19	1.1 - 1.5	500
498604	50 x 25	M8	17 - 19	1.1 - 1.5	250
498605	50 x 25	M10	17 - 19	1.1 - 1.5	500
498606	50 x 30	M8	17 - 19	1.1 - 1.5	200
498607	50 x 30	M10	17 - 19	1.1 - 1.5	500
498608	60 x 30	M8	17 - 19	1.1 - 1.5	250
498609	60 x 30	M10	17 - 19	1.1 - 1.5	250

SAI Series
Square Ribbed Inserts with Adjustable Feet

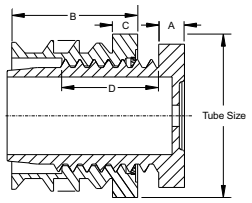


Specifications:
- Material: Nylon
- Color: Black

Features:
- Rugged, durable, heavy duty
- Resists lateral stresses
- Threaded insert and height adjuster in one piece

Item No.	Square Tube Size in	Square Tube Size mm	Fits Tube Gauge	Fits mm	Reference Dimensions A	B	C	D	Axial Load lbs	Bulk Pack Qty.
SAI100A	0.750	20.00	14 - 18	1.5 - 2.0	0.158	0.866	0.197	0.945	220	100
SAI200A	0.875	22.00	14 - 18	1.5 - 2.0	0.158	0.866	0.197	0.945	220	200
SAI300A	1.000	25.00	14 - 18	1.5 - 2.0	0.197	0.985	0.197	0.906	330	300
SAI400A	1.181	30.00	14 - 18	1.5 - 2.0	0.197	0.985	0.197	0.787	660	100
SAI500A	1.375	35.00	14 - 18	1.5 - 2.0	0.197	1.358	0.197	0.787	660	100
SAI600A	1.500	40.00	14 - 18	1.5 - 2.0	0.197	1.358	0.197	0.787	660	100
SAI700A	1.750	45.00	14 - 18	1.5 - 2.0	0.197	1.358	0.197	1.102	660	100
SAI800A	2.000	50.00	14 - 18	1.5 - 2.0	0.197	1.358	0.197	1.142	660	100

RAI Series
Round Ribbed Inserts with Adjustable Feet



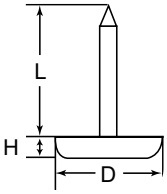
Specifications:
- Material: Nylon
- Color: Black

Features:
- Rugged, durable, heavy duty
- Resists lateral stresses
- Threaded insert and height adjuster in one piece

Item No.	Tube Size in	Tube Size mm	Fits Tube Gauge	Fits mm	A Ref	B Ref	C Ref	D Ref	Axial Load lbs	Bulk Pack Qty.
RAI100A	1.250	32	14 - 18	1.5-2.0	0.197	0.985	0.197	0.787	660	800
RAI200A	1.375	35	14 - 18	1.5-2.0	0.197	1.358	0.197	0.787	660	100
RAI300A	1.500	40	14 - 18	1.5-2.0	0.197	1.358	0.197	0.787	660	100
RAI400A	1.750	45	14 - 18	1.5-2.0	0.197	1.358	0.197	1.102	660	100
RAI500A	2.000	50	14 - 18	1.5-2.0	0.197	1.358	0.197	1.181	660	100
RAI600A	2.375	60	14 - 18	1.5-2.0	0.394	1.595	0.236	1.457	660	100
RAI700A	3.125	80	14 - 18	1.5-2.0	0.394	1.595	0.236	1.457	660	100

TACK, SCREW-IN & ADHESIVE GLIDES

TKG Series
Tack Glides

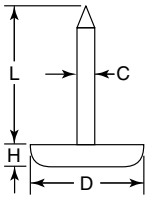


Specifications:
- Material: High-Density Polyethylene with Nickel Plated Nail
- Color: See Table

Features:
- Ideal for wooden furniture

Item No.		D		H		L		Bulk Pack Qty.
Natural	Brown	in	mm	in	mm	in	mm	
TKG1010A	TKG1010B	0.625	15.88	0.250	6.35	0.719	18.26	6000
TKG1020A	TKG1020B	0.750	19.05	0.250	6.35	0.719	18.26	4500
TKG1030A	TKG1030B	0.875	22.23	0.250	6.35	0.719	18.26	4000
TKG1040A	TKG1040B	1.000	25.40	0.250	6.35	0.719	18.26	3000

TKT Series
PTFE Based Glide



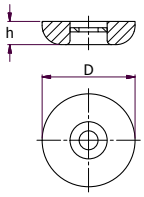
Specifications:
- Material: PTFE
- Color: Natural

Features:
- Ideal when easy movement is essential

Item No.	D	H	L	C	Bulk Pack Qty.
499499	0.750	0.393	0.709	0.102	200
499500	0.870	0.393	0.709	0.102	200
499501	0.980	0.393	0.709	0.102	200
499502	1.180	0.393	0.709	0.102	200
499503	1.460	0.393	0.709	0.102	200

Screw-In Glides

NEW



Specifications:
- Material:
  Glide: PTFE
  Material: Washer: Steel
- Color: Natural

Features:
- Includes metal screw
- Easy assembly

Item No.	D In	H In	Bulk Pack Qty.
499483	0.875	0.219	200
499484	1.000	0.203	200
499485	1.188	0.203	200
499486	1.500	0.220	200
499487	2.000	0.219	200

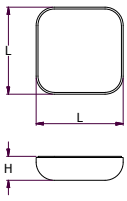
Adhesive Glides

NEW

Specifications:
- Material: PTFE with adhesive backing
- Color: Natural

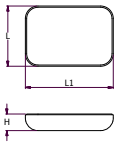
Features:
- Easy to apply
- Smooth glide action
- Protects surfaces

Square



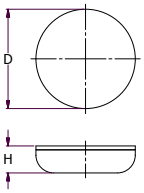
Item No.	L in	H in	BulkPack Qty.
499488	1.000	0.250	200
499490	1.188	0.250	200
499494	1.500	0.281	200
499495	1.750	0.281	200
499496	2.000	0.250	200

Rectangular



Item No.	L in	L1 in	H in	Bulk Pack Qty.
499489	1.000	1.375	0.267	200
499497	0.750	2.750	0.250	200
499492	1.000	4.000	0.250	200

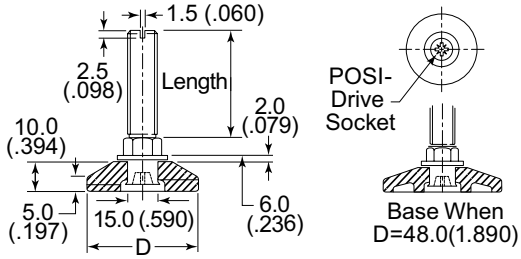
Round



Item No.	D in	H in	Bulk Pack Qty.
499475	0.750	0.172	200
499476	0.875	0.250	200
499477	1.000	0.172	200
499478	1.188	0.172	200
499479	1.500	0.250	200
499480	2.000	0.250	200
499481	2.500	0.250	200

PLASTIC BASED LEVELERS

AFP & AFPM Series
Articulating Adjustable Feet



Specifications:
- Material: Polypropylene, Low-Carbon Steel Stud with Zinc-Plated Finish
- Color: Black

Features:
- Allows adjustment under load with base remaining stationary

Imperial

Item No.	D (Base) in	Thread Size	Stud Length in	Bulk Pack Qty.
AFP25100A	0.984	1/4 - 20	0.750	100
AFP25110A	0.984	5/16 - 18	1.000	100
AFP25120A	0.984	5/16 - 18	1.500	100
AFP25130A	0.984	5/16 - 18	2.000	100
AFP25140A	0.984	5/16 - 18	2.750	100
AFP25150A	0.984	5/16 - 18	4.000	100
AFP30100A	1.181	5/16 - 18	1.000	100
AFP30110A	1.181	5/16 - 18	1.500	100
AFP30120A	1.181	5/16 - 18	2.000	100
AFP30130A	1.181	5/16 - 18	2.750	100
AFP30140A	1.181	5/16 - 18	3.000	100
AFP30150A	1.181	5/16 - 18	4.000	100
AFP30160A	1.181	3/8 - 16	1.000	100
AFP30180A	1.181	3/8 - 16	1.500	100
AFP30200A	1.181	3/8 - 16	2.000	100
AFP30210A	1.181	3/8 - 16	2.750	100
AFP30220A	1.181	3/8 - 16	4.000	100
AFP38100A	1.500	5/16 - 18	1.000	100
AFP38120A	1.500	5/16 - 18	1.500	100
AFP38130A	1.500	5/16 - 18	2.000	100
AFP38140A	1.500	5/16 - 18	2.750	100
AFP38150A	1.500	5/16 - 18	3.000	100
AFP38160A	1.500	5/16 - 18	4.000	100
AFP38170A	1.500	3/8 - 16	1.000	100
AFP38180A	1.500	3/8 - 16	1.500	100
AFP38200A	1.500	3/8 - 16	2.000	100
AFP38210A	1.500	3/8 - 16	2.750	100
AFP38220A	1.500	3/8 - 16	3.000	100
AFP38230A	1.500	3/8 - 16	4.000	100
AFP38240A	1.500	1/2 - 13	1.000	100
AFP38250A	1.500	1/2 - 13	1.500	100
AFP38260A	1.500	1/2 - 13	2.000	100
AFP38280A	1.500	1/2 - 13	2.750	100
AFP38290A	1.500	1/2 - 13	4.000	100
AFP48100A	1.890	5/16 - 18	1.000	100
AFP48110A	1.890	5/16 - 18	1.500	100
AFP48130A	1.890	5/16 - 18	2.000	100
AFP48140A	1.890	5/16 - 18	2.750	100
AFP48150A	1.890	5/16 - 18	4.000	100
AFP48170A	1.890	3/8 - 16	1.000	100
AFP48180A	1.890	3/8 - 16	1.500	100
AFP48200A	1.890	3/8 - 16	2.000	100
AFP48210A	1.890	3/8 - 16	2.375	100
AFP48220A	1.890	3/8 - 16	2.750	100
AFP48240A	1.890	3/8 - 16	4.000	100
AFP48250A	1.890	1/2 - 13	1.000	100
AFP48260A	1.890	1/2 - 13	1.500	100
AFP48270A	1.890	1/2 - 13	2.000	100
AFP48280A	1.890	1/2 - 13	2.750	100
AFP48290A	1.890	1/2 - 13	4.000	100

Metric

Item No.	D (Base) mm	Thread Size	Stud Length mm	Bulk Pack Qty.
466212	25	M6	20	500
466167	25	M8	25	500
466168	25	M8	40	350
466169	25	M8	55	250
466170	25	M8	70	200
466171	25	M8	100	150
466172	30	M6	25	400
466173	30	M6	40	300
466174	30	M6	55	200
466175	30	M6	70	150
466176	30	M6	100	100
466177	30	M10	25	300
466178	30	M10	40	200
466179	30	M10	55	100
466180	30	M10	70	100
466181	30	M10	100	50
466182	38	M8	25	400
466183	38	M8	40	300
466184	38	M8	55	200
466185	38	M8	70	150
466186	38	M8	100	100
466187	38	M10	25	300
466188	38	M10	40	200
466189	38	M10	55	100
466190	38	M10	70	100
466191	38	M10	100	50
466192	38	M12	25	200
466193	38	M12	40	150
466194	38	M12	55	150
466195	38	M12	70	50
466196	38	M12	100	100
466197	48	M8	25	200
466198	48	M8	40	150
466199	48	M8	55	150
466200	48	M8	70	100
466201	48	M8	100	100
466202	48	M10	25	150
466203	48	M10	40	100
466204	48	M10	55	100
466205	48	M10	70	50
466206	48	M10	100	100
466207	48	M12	25	100
466208	48	M12	40	100
466209	48	M12	55	100
466211	48	M12	100	50

AFM & AFMP Series
Swivel/Tilting Adjustable Machinery Feet

Specifications:
- Material: Nylon Base (AFM) or Rubber (AFMP) with Zinc Plated Steel Stud
- Color: Black

Features:
- Ideal for mounting machines or conveyers
- High Load bearing of 2000lbs (900kg) per foot
- Tilting and swiveling design (20° Max)

AFMP Series

AFM Series

AFM Series

Item No.			Stud Length	Ø Base	Bulk Pack Qty.
Plain Base	Bolt-Down Base	Thread	in	in	
AFM1100A	—	5/16 - 18	2.5	1.57	40
AFM1200A	—	5/16 - 18	2.5	1.97	40
—	AFM1300B	5/16 - 18	2.5	2.36	40
AFM1400A	—	5/16 - 18	3.5	1.57	40
AFM1500A	—	5/16 - 18	3.5	1.97	40
—	AFM1600B	5/16 - 18	3.5	2.36	40
AFM2050A	—	3/8 - 16	3.0	1.97	40
—	AFM2100B	3/8 - 16	3.0	2.36	40
AFM2150A	—	3/8 - 16	3.0	3.15	40
AFM2200A	—	3/8 - 16	4.0	1.97	40
—	AFM2250B	3/8 - 16	4.0	2.36	40
AFM2300A	—	3/8 - 16	4.0	3.15	40
AFM3100A	—	1/2 - 13	3.0	1.97	24
—	AFM3150B	1/2 - 13	3.0	2.36	24
AFM3200A	AFM3200B	1/2 - 13	3.0	3.15	24
AFM3300A	—	1/2 - 13	4.0	1.97	24
AFM3400A	AFM3400B	1/2 - 13	4.0	3.15	24
—	AFM3450B	1/2 - 13	4.0	3.94	24
AFM3500A	—	1/2 - 13	5.0	2.36	24
AFM3600A	AFM3600B	1/2 - 13	5.0	3.15	24
—	AFM3700B	1/2 - 13	5.0	3.94	24
AFM4100A	—	5/8 - 11	3.0	1.97	20
—	AFM4150B	5/8 - 11	3.0	2.36	20
AFM4200A	—	5/8 - 11	3.0	3.15	20
AFM4250A	—	5/8 - 11	4.0	1.97	20
AFM4300A	AFM4300B	5/8 - 11	4.0	3.15	20
—	AFM4400B	5/8 - 11	4.0	3.94	20
AFM4450A	—	5/8 - 11	6.0	3.15	20
AFM4500A	AFM4500B	5/8 - 11	6.0	3.94	20
AFM4600A	—	5/8 - 11	6.0	4.72	20
AFM4650A	—	5/8 - 11	8.0	3.15	20
AFM4700A	—	5/8 - 11	8.0	3.94	20
AFM4800A	AFM4800B	5/8 - 11	8.0	4.72	20
AFM5400A	—	3/4 - 10	6.0	3.15	20
AFM5450A	—	3/4 - 10	6.0	3.94	20
AFM5500A	AFM5500B	3/4 - 10	6.0	4.72	12
AFM5600A	—	3/4 - 10	8.0	3.15	12
AFM5650A	—	3/4 - 10	8.0	3.94	12
AFM5700A	AFM5700B	3/4 - 10	8.0	4.72	12

AFMP Series - Optional Non-Slip Pad

Item No.		Ø Base	Bulk Pack Qty.
Plain Base	Bolt-Down Base	in	
AFMP040A	—	1.57	40
AFMP050A	—	1.97	40
AFMP060A	AFMP060B	2.36	24
AFMP080A	AFMP080B	3.15	20
AFMP100A	AFMP100B	3.94	20
AFMP120A	AFMP120B	4.72	12

METRIC SIZES
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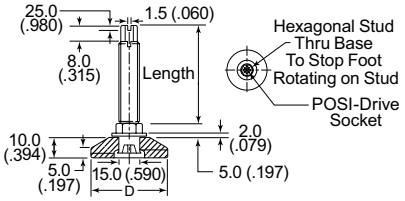
PLASTIC BASED LEVELERS

AFS & AFSM Series
Rigid Adjustable Feet



Specifications:
- Material: Polypropylene, Low-Carbon Steel Stud with Zinc-Plated Finish
- Color: Black

Imperial

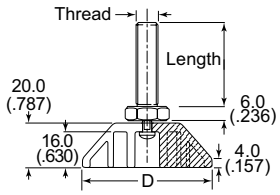
Item No.	D (Base) in	Thread Size	Stud Length in	Bulk Pack Qty.
AFS48410A	1.890	5/16-18	1.000	100
AFS48420A	1.890	5/16-18	1.500	100
AFS48430A	1.890	5/16-18	2.000	100
AFS48440A	1.890	5/16-18	2.750	100
AFS48450A	1.890	5/16-18	4.000	100
AFS48460A	1.890	3/8-16	1.000	100
AFS48470A	1.890	3/8-16	1.500	100
AFS48480A	1.890	3/8-16	2.000	100
AFS48490A	1.890	3/8-16	2.750	100
AFS48500A	1.890	3/8-16	4.000	100
AFS48510A	1.890	1/2-13	1.000	100
AFS48520A	1.890	1/2-13	1.500	100
AFS48530A	1.890	1/2-13	2.000	100
AFS48540A	1.890	1/2-13	2.750	100
AFS48550A	1.890	1/2-13	4.000	100

AFSM Metric

Item No.	D (Base) mm	Thread Size	Stud Length mm	Bulk Pack Qty.
466121	25	M6	20	500
466122	25	M8	25	500
466123	25	M8	40	350
466124	25	M8	55	250
466125	25	M8	70	200
466126	25	M8	100	150
466127	30	M8	25	400
466128	30	M8	40	300
466129	30	M8	55	200
466130	30	M8	70	150
466131	30	M8	100	100
466132	30	M10	25	300
466133	30	M10	40	200
466134	30	M10	55	100
466135	30	M10	70	100
466136	30	M10	100	50
466137	38	M8	25	400
466138	38	M8	40	300
466139	38	M8	55	200
466140	38	M8	70	150
466141	38	M8	100	100
466142	38	M10	25	300
466143	38	M10	40	200
466144	38	M10	55	100
466145	38	M10	70	100
466146	38	M10	100	50
466147	38	M12	25	200
466148	38	M12	40	150
466149	38	M12	55	150
466150	38	M12	70	100
466151	38	M12	100	50
466152	48	M8	25	200
466153	48	M8	40	200
466154	48	M8	55	150
466155	48	M8	70	150
466156	48	M8	100	100
466157	48	M10	25	200
466158	48	M10	40	150
466159	48	M10	55	100
466160	48	M10	70	100
466161	48	M10	100	50
466162	48	M12	25	150
466163	48	M12	40	100
466164	48	M12	55	100
466165	48	M12	70	50
466166	48	M12	100	50

AFT & AFTM Series
Swivel/Tilting Adjustable Feet

NEW



Specifications:
- Material: Polypropylene Zinc-Plated Steel Tilt Ball and Stud
- Color: Black

Features:
- Max 25° tilt

Imperial

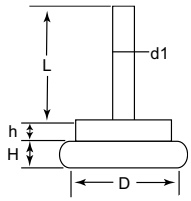
Item No.	D (Base) in	Thread Size	Stud Length in	Bulk Pack Qty.
AFT25100A	0.984	1/4 - 20	1.000	100
AFT25110A	0.984	5/16 - 18	0.500	100
AFT25120A	0.984	5/16 - 18	1.000	100
AFT25130A	0.984	3/8 - 16	0.500	100
AFT25140A	0.984	3/8 - 16	1.500	100
AFT25150A	0.984	3/8 - 16	2.000	100
AFT32160A	1.260	1/4 - 20	1.000	100
AFT32170A	1.260	5/16 - 18	1.000	100
AFT32180A	1.260	5/16 - 18	1.500	100
AFT32190A	1.260	3/8 - 16	1.000	100
AFT32200A	1.260	3/8 - 16	2.000	100
AFT32210A	1.260	3/8 - 16	3.000	100
AFT38220A	1.496	5/16 - 18	1.000	100
AFT38230A	1.496	5/16 - 18	1.500	100
AFT38240A	1.496	3/8 - 16	1.000	100
AFT38250A	1.496	3/8 - 16	2.000	100
AFT38260A	1.496	3/8 - 16	3.000	100
AFT47270A	1.850	5/16 - 18	1.000	100
AFT47280A	1.850	5/16 - 18	2.000	100
AFT47290A	1.850	3/8 - 16	1.000	100
AFT47300A	1.850	3/8 - 16	2.000	100
AFT47310A	1.850	3/8 - 16	3.000	100

Metric

Item No.	Thread	Ø Base	Stud Length	Bulk Pack Qty
462183	M6	25.0	25.0	750
462184	M6	32.5	25.0	500
110728	M8	25.0	12.0	100
110732	M8	25.0	25.0	100
110729	M8	32.0	12.0	100
110733	M8	32.0	25.0	100
110730	M8	38.0	12.0	100
110734	M8	38.0	25.0	100
110731	M8	47.5	12.0	100
110735	M8	47.5	25.0	100
110736	M10	25.0	15.0	100
110740	M10	25.0	38.0	100
110744	M10	25.0	50.0	100
110737	M10	32.0	15.0	100
110741	M10	32.0	38.0	100
110745	M10	32.0	50.0	100
110738	M10	38.0	15.0	100
110742	M10	38.0	38.0	100
110746	M10	38.0	50.0	100
110739	M10	47.5	15.0	100
110743	M10	47.5	38.0	100
110747	M10	47.5	50.0	100

ADJUSTABLE FEET

AFH Series
Steel Based Adjustable Feet

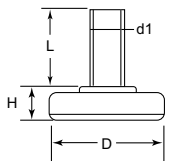


Specifications:
- Material: Low-Carbon Steel Stud with Zinc-Plated Finish and Nickel-Plated Shell

Features:
- Economic leveler ideal for uneven surfaces
- Steel shell base provides a smooth non-skid surface
- Excellent for leveling cabinets, office furniture and light-duty machines
- Polymer cushion provided shock absorption
- Attractive chrome finish

Item No.	D (Base) in	H (Height) in	h (Height) in	L in	d1 (Thread)	Bulk Pack Qty.
AFH1010A	0.748	0.236	0.157	0.650	1/4 - 20	400
AFH1015A	0.748	0.236	0.157	1.000	1/4 - 20	360
AFH1020A	0.866	0.236	0.157	0.650	1/4 - 20	320
AFH1025A	0.866	0.236	0.157	1.500	1/4 - 20	300
AFH1030A	0.945	0.236	0.157	0.650	1/4 - 20	240
AFH1035A	0.945	0.236	0.157	1.500	1/4 - 20	220
AFH1040A	1.063	0.236	0.157	1.000	1/4 - 20	192
AFH1045A	1.063	0.236	0.157	2.000	1/4 - 20	172

AFB Series
Nylon Based Adjustable Feet

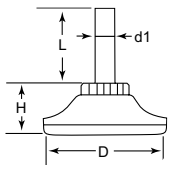


Specifications:
- Material: Nylon Base, Low-Carbon Steel Stud with Zinc-Plated Finish and Nickel-Plated Shell
- Color: Natural Nylon Base with Nickel-Plated Shell

Features:
- Economic leveler ideal for uneven surfaces
- Nylon base provides a smooth non-abrasive surface
- Excellent for leveling cabinets, office furniture and light-duty machines

Item No.	D (Base) in	D (Base) mm	H (Height) in	H (Height) mm	L in	L mm	d1 (Thread)	Bulk Pack Qty.
AFB1010A	1.000	25.40	0.438	11.11	1.000	25.40	1/4- 20	400
AFB1015A	1.000	25.40	0.438	11.11	2.000	50.80	1/4- 20	360
AFB1020A	1.375	34.93	0.594	15.08	1.000	25.40	3/8- 16	200
AFB1025A	1.375	34.93	0.594	15.08	2.000	50.80	3/8- 16	180

AFD Series
Nylon Based With Hex Adjustable Feet

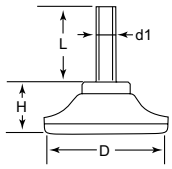


Specifications:
- Material: Nylon Base, Low-Carbon Steel Stud with Zinc-Plated Finish and Nickel-Plated Shell
- Color: Natural Nylon Base with Nickel-Plated Shell

Features:
- Integral hexagonal nut allows adjustment under load
- Nylon base provides a smooth non-abrasive surface
- Excellent for leveling cabinets, office furniture and light-duty machines
- Attractive nickel finish

Item No.	D (Base) in	D (Base) mm	H (Height) in	H (Height) mm	L in	L mm	d1 (Thread)	Bulk Pack Qty.
AFD1010A	1.300	33.02	0.625	15.88	1.000	25.40	3/8 - 16	300
AFD1020A	1.750	44.45	0.688	17.46	1.000	25.40	3/8 - 16	300
AFD1025A	1.750	44.45	0.688	17.46	2.000	25.40	3/8 - 16	280

AFR Series
Nylon Based Adjustable Feet



Specifications:
- Material: Nylon Base, Low-Carbon Steel Stud With Zinc-Plated Finish and Nickel-Plated Shell
- Color: Natural Nylon Base with Nickel-Plated Shell

Features:
- Economic leveler ideal for uneven surfaces
- Nylon base provides a smooth non-abrasive surface
- Excellent for leveling cabinets, office furniture and light-duty machines

Item No.	D (Base) in	D (Base) mm	H (Height) in	H (Height) mm	L in	L mm	d1 (Thread)	Bulk Pack Qty.
AFR1010A	1.125	28.58	0.438	11.11	1.000	25.40	1/4 - 20	400
AFR1015A	1.125	28.58	0.438	11.11	2.000	50.80	1/4 - 20	360
AFR1020A	1.125	28.58	0.438	11.11	1.000	25.40	5/16 - 18	300
AFR1025A	1.125	28.58	0.438	11.11	2.000	50.80	5/16 - 18	280

Item No.	D (Base) in	D (Base) mm	H (Height) in	H (Height) mm	L in	L mm	d1 (Thread)	Bulk Pack Qty.
AFR1030A	1.300	33.02	0.500	12.70	1.000	25.40	3/8 - 16	240
AFR1035A	1.300	33.02	0.500	12.70	2.000	50.80	3/8 - 16	220
AFR1040A	1.750	44.45	0.531	13.49	1.000	25.40	3/8 - 16	200
AFR1045A	1.750	44.45	0.531	13.49	2.000	50.80	3/8 - 16	180

BASE CAPS / RIVET FEET

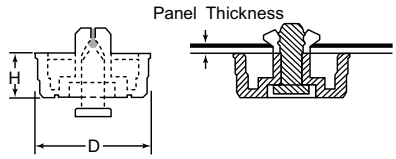
MBC Series
Glide Base Caps

Specifications:
- Material: See Table
- Color: Natural

Features:
- Low profile
- Effectively encapsulates standard metal base glides

Item No.	Fits Base Cap OD in	Material	Bulk Pack Qty.
MBC1200A	0.875	Nylon	5000
MBC1210A	1.000	LDPE	4000
MBC1220A	1.062	Nylon	4000
MBC1230A	1.200	LDPE	3000
MBC1240A	1.218	Nylon	3000
MBC1250A	1.250	LDPE	2500
MBC1260A	1.250	Nylon	2500

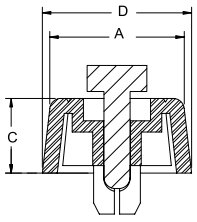
FF Series
Fast Foot



Specifications:
- Material: TPR over Nylon
- Flame Class: UL94 HB
- Color: Black

Item No.	Ø in	Ø mm	Panel Thickness in	Panel Thickness mm	D in	D mm	H in	H mm	Bulk Pack Qty.
FF-001B	0.199	5.1	0.039 - 0.091	1.0 - 2.3	0.950	24.0	0.551	14.0	100
FF-003-P3X5.5B	0.124	3.2	0.031 - 0.071	0.8 - 1.8	0.560	14.2	0.217	5.5	100
FF-004B	0.199	5.1	0.039 - 0.091	1.0 - 2.3	0.790	20.0	0.394	10.0	100
FF-005-P4X5B	0.163	4.2	0.039 - 0.091	0.8 - 1.8	0.830	21.0	0.165	4.2	100
FF-005-P4X6B	0.163	4.2	0.071 - 0.111	1.8 - 2.8	0.830	21.0	0.165	4.2	100
FF-005-P4X7B	0.163	4.2	0.114 - 0.146	2.9 -3 .7	0.830	21.0	0.165	4.2	100
FF-005-P4X8B	0.163	4.2	0.150 - 0.189	3.8 - 4.8	0.830	21.0	0.165	4.2	100
FF-006-P4X6B	0.163	4.2	0.024 - 0.039	0.6 - 1.0	0.590	15.0	0.236	6.0	100
FF-006-P4X7B	0.163	4.2	0.039 - 0.079	1.0 - 2.0	0.590	15.0	0.236	6.0	100
FF-006-P4X8B	0.163	4.2	0.079 - 0.118	2.0 - 3.1	0.590	15.0	0.236	6.0	100
FF-006-P5X6.5B	0.203	5.2	0.031 - 0.047	0.8 - 1.2	0.590	15.0	0.236	6.0	100
FF-006-P5X7.5B	0.203	5.2	0.051 - 0.091	1.3 - 2.3	0.590	15.0	0.236	6.0	100
FF-008-P4X6B	0.163	4.2	0.031 - 0.071	0.8 - 1.8	0.830	21.0	0.236	6.0	100
FF-008-P4X7B	0.163	4.2	0.075 - 0.110	1.9 - 2.8	0.830	21.0	0.236	6.0	100
FF-008-P4X8B	0.163	4.2	0.114 - 0.157	2.9 - 4.0	0.830	21.0	0.236	6.0	100
FF-009-P4X6B	0.163	4.2	0.000 - 0.031	0.0 - 0.8	0.830	21.0	0.315	8.0	100
FF-009-P4X7B	0.163	4.2	0.031 - 0079	0.8 - 2.0	0.830	21.0	0.315	8.0	100
FF-009-P4X8B	0.163	4.2	0.083 - 0.118	2.1 - 3.0	0.830	21.0	0.315	8.0	100
FF-010-P4X7B	0.163	4.2	0.039 - 0.079	1.0 - 2.0	0.590	15.0	0.354	9.0	100
FF-010-P4X8B	0.163	4.2	0.079 - 0.118	2.0 - 3.1	0.590	15.0	0.354	9.0	100
FF-13-P3.5X4.5B	0.144	3.7	0.020 - 0.047	0.5 - 1.2	0.430	10.8	0.157	4.0	100
FF-13-P3.5X5.5B	0.144	3.7	0.047 - 0.079	1.2 - 2.0	0.430	10.8	0.157	4.0	100
FF-13-P3.5X6.0B	0.144	3.7	0.059 - 0.087	1.5 - 2.2	0.430	10.8	0.157	4.0	100
FF-13-P3.5X7.0B	0.144	3.7	0.098 - 0.126	2.5 - 3.2	0.430	10.8	0.157	4.0	100

SFF Series
Soft Fast Foot

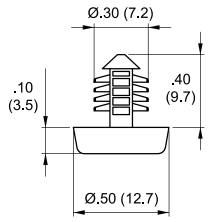


Specifications:
- Material: Foot: UL94 HB TPE, 86 Shore A
  Pin: Polypropylene
- Color: Black

Features:
- Rivet is pushed in, locking foot in place
- Prevents surface damage with anti-skid and scratch resistant properties
- Made of abrasion resistant rubber to help cushion and provide vibration control
- High shear strength

Item No.	Hole Ø in	Hole Ø mm	Panel Thickness in	Panel Thickness mm	A Ref in	A Ref mm	C Ref in	C Ref mm	D in	D mm	Bulk Pack Qty.
SFF-018	0.305	7.75	0.031 - 0.059	0.8 - 1.5	0.710	18.0	0.390	10.0	0.790	20.0	100
SFF-021	0.305	7.75	0.197 - 0.315	5.0 - 8.0	0.790	20.0	0.240	6.0	0.830	21.0	100
SFF-023	0.305	7.75	0.031 - 0.059	0.8 - 1.5	0.910	23.0	0.200	5.0	0.980	25.0	100
SFF-028	0.305	7.75	0.031 - 0.059	0.8 - 1.5	0.710	18.0	0.590	15.0	0.790	20.0	100

FBR Series
Foot, Fir-Tree Mount



Specifications:
- Material: Rivet: UL94 V-2 Nylon 6/6
  Foot: TPE
- Color: Black

Features:
- Rigid nylon fir-tree mount provides exceptional retention strength
- Rubber foot provides skid resistance and vibration control

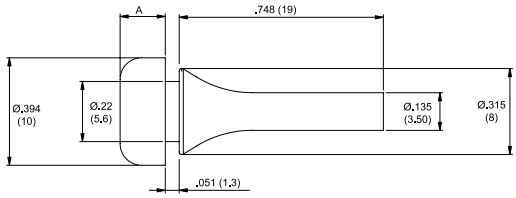
Item No.	Hole Ø in	Hole Ø mm	Min. Panel Thickness in	Min. Panel Thickness mm	Bulk Pack Qty.
FBR-1	0.268	6.8	0.394	10.0	1000

STEM BUMPERS

BPM Series
Pull Mount Bumper

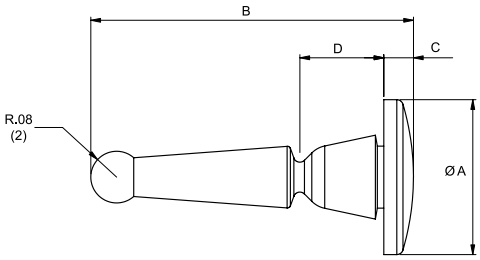
Specifications:
- Material: Silicone Rubber, 65 Shore A
- Color: Black

Features:
- Pulled from the inside of chassis
- High temperature silicone helps to cushion and prevent skidding



Item No.	Hole Ø		Panel Thickness		A		Bulk Pack Qty.
	in	mm	in	mm	in	mm	
BPM-2	0.240 - 0.250	6.00 - 6.35	0.059	1.5	0.165	4.2	1000
BPM-3	0.240 - 0.250	6.00 - 6.35	0.059	1.5	0.196	5.0	1000

BAB Series
Break-Away Bumper

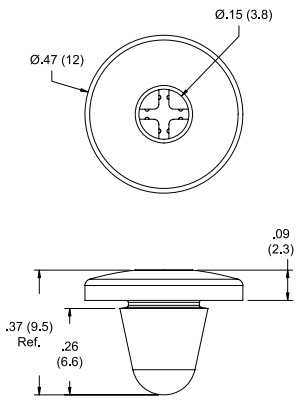


Specifications:
- Material: See Table
- Color: Black

Features:
- Designed to be pulled from the inside of the chassis
- Mounting tab designed to break away after assembly to save space
- Silicone is good for high temperature applications

Item No.	Hole Ø		Panel Thickness		A Ø		B		C		D		Material	Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
BAB-1	0.197 - 0.212	5.0 - 5.4	0.024 - 0.031	0.6 - 0.8	0.470	12.0	0.980	25.0	0.090	2.3	0.260	6.5	Silicone Rubber, 40 Shore A	1000
BAB-2	0.197 - 0.212	5.0 - 5.4	0.024 - 0.031	0.6 - 0.8	0.470	12.0	0.980	25.0	0.090	2.3	0.260	6.5	Silicone Rubber, 50 Shore A	1000
BAB-3	0.185 - 0.197	4.7 - 5.0	0.020	0.5	0.390	10.0	0.790	20.0	0.080	2.0	0.160	4.3	Silicone Rubber, 50 Shore A	1000

BIB Series
Blind Install Bumper



Specifications:
- Material: Silicone Rubber, 45 Shore A
- Color: Black

Features:
- Installed from the outside of the chassis
- Cross that is molded into the head allows quick installation with a #1 phillips head screwdriver or 1/8 (3.2) Ø or smaller blunt end rod
- May be used as an alternate to the BAB series seen above

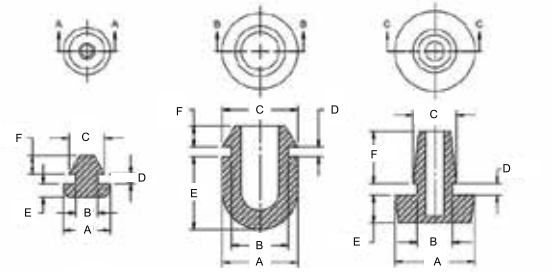
Item No.	Hole Ø		Panel Thickness		Bulk Pack Qty.
	in	mm	in	mm	
BIB-1	0.197 - 0.212	5.0 - 5.4	0.024 - 0.031	1.6 - 0.8	1000

STEM BUMPERS

POF Series
Push On Feet

Specifications:
- Material: UL94 HB TPE
- Color: Black

Features:
- Easily mounted by pushing into chassis



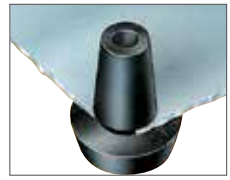
Type 1 Type 2 Type 3

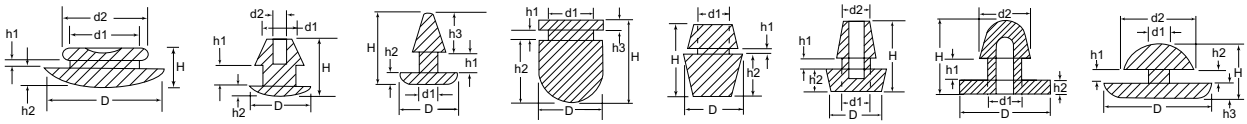
Item No.	Hole Ø		Panel Thickness		A Ø		B Ø		C Ø		D		E		F Ref		Type	Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
POF-40022	0.146 - 0.150	3.7 - 3.8	0.126	3.2	0.31	7.9	0.126	3.2	0.17	4.4	0.13	3.3	0.06	1.6	0.13	3.3	1	100
POF-40048	0.177 - 0.181	4.5 - 4.6	0.059	1.5	0.31	7.9	0.146	3.7	0.24	6.1	0.06	1.6	0.09	2.3	0.12	3.0	1	100
POF-40059	0.374 - 0.378	9.5 - 9.6	0.059	1.5	0.50	12.7	0.374	9.5	0.50	12.7	0.06	1.6	0.48	12.2	0.14	3.6	2	100
POF-50185	0.236 - 0.240	6 - 6.1	0.075	1.9	0.53	13.4	0.236	6.0	0.29	7.3	0.08	2.0	0.18	4.6	0.34	8.6	3	100
POF-12664	0.276 - 0.280	7 - 7.1	0.047	1.2	0.62	15.7	0.276	7.0	0.34	8.6	0.05	1.3	0.20	5.1	0.16	4.1	3	100

GRF Series
Add Push-On Feet

Specifications:
- Material: Flexible PVC
- Color: Black

Features:
- Designed for use on metal or plastic housings and cases
- Simply push into punched or drilled holes





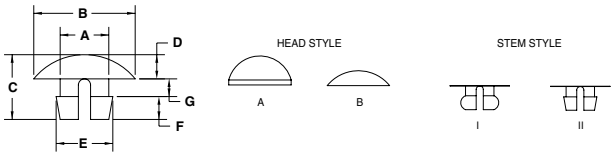
Type 1 Type 2 Type 3 Type 4 Type 5 Type 6 Type 7 Type 8

Item No.	Type	Ø D		Ø d1		Ø d2		H		h1		h2		h3		Bulk Pack Qty.
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
GRF16010A	1	0.606	15.39	0.386	9.80	0.500	12.70	0.276	7.01	0.063	1.60	0.106	2.69	—	—	10000
GRF17409A	1	0.748	19.00	0.472	12.00	0.516	13.11	0.256	6.50	0.031	0.79	0.126	3.20	—	—	10000
GRF17412A	1	0.748	19.00	0.504	12.80	0.626	15.90	0.295	7.49	0.063	1.60	0.126	3.20	—	—	7000
GRF24006A	2	0.406	10.31	0.177	4.50	0.087	2.21	0.299	7.59	0.063	1.60	0.079	2.01	—	—	5000
GRF33106A	3	0.311	7.90	0.126	3.20	—	—	0.327	8.31	0.126	3.20	0.063	1.60	0.138	3.51	10000
GRF33109A	3	0.311	7.90	0.146	3.71	—	—	0.276	7.01	0.063	1.60	0.094	2.39	0.118	3.00	10000
GRF45050A	4	0.492	12.50	0.374	9.50	—	—	0.669	16.99	0.063	1.60	0.472	12.00	0.138	3.51	10000
GRF54131A	5	0.429	10.90	0.272	6.91	—	—	0.504	12.80	0.028	0.71	0.319	8.10	—	—	10000
GRF64718A	6	0.472	12.00	0.236	6.00	0.228	5.79	0.598	15.19	0.083	2.11	0.181	4.60	—	—	10000
GRF65919A	2	0.622	15.80	0.268	6.81	0.157	3.99	0.382	9.70	0.059	1.50	0.197	5.00	—	—	10000
GRF79815A	7	0.996	25.30	0.492	12.50	0.602	15.29	0.787	19.99	0.197	5.00	0.157	3.99	—	—	2000
GRF86713A	8	0.689	17.50	0.437	11.10	0.524	13.31	0.394	10.01	0.102	2.59	0.157	3.99	0.157	3.99	10000

BDH Series
Domed Split Stem Bumper

Specifications:
- Material: Nylon 6
- Color: Natural

Features:
- Domed head split bumpers are produced with a split-stem portion to make insertion easy and removal difficult
- The domed head makes them ideal for use as bumpers



Item No.	Ø A		Ø B		C		D		E		F		G		Stem Style	Head Style	Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm			
BDH005A	0.109	2.77	0.250	6.35	0.203	5.16	0.093	2.36	0.125	3.18	0.046	1.17	0.063	1.60	I	A	40000
BDH010A	0.125	3.18	0.375	9.53	0.307	7.80	0.046	1.17	0.150	3.81	0.130	3.30	0.130	3.30	II	A	30000
BDH020A	0.156	3.96	0.375	9.53	0.265	6.73	0.093	2.36	0.173	4.39	0.093	2.36	0.093	2.36	II	B	20000
BDH025A	0.187	4.75	0.344	8.73	0.203	5.16	0.050	1.27	0.218	5.54	0.083	2.11	0.070	1.78	II	B	35000
BDH030A	0.187	4.75	0.390	9.91	0.250	6.35	0.093	2.36	0.218	5.54	0.088	2.24	0.068	1.73	II	B	24000
BDH040A	0.210	5.33	0.375	9.53	0.343	8.71	0.063	1.60	0.243	6.17	0.125	3.18	0.156	3.96	II	B	20000

STEM BUMPERS

SOF Series
Screw Mount Feet

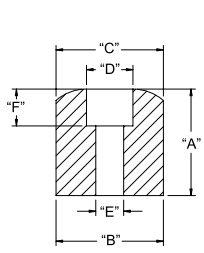


Fig. 1

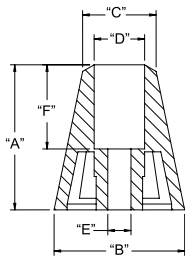


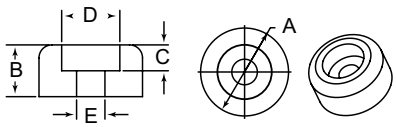
Fig. 2

Specifications:
- Material: Neoprene Rubber
- Color: Black

Features:
- Securely mounted with a screw
- Provides excellent skid resistance

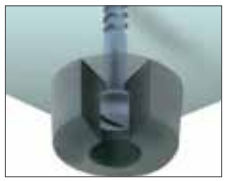
Item No.	Ø A		Ø B		Ø C Ref.		Ø D		Ø E		Ø F		Figure	Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
SOF-15129	0.280	7.1	0.630	15.9	0.540	13.8	0.310	8.0	0.130	3.2	0.160	4.0	1	100
SOF-15140	0.370	9.5	0.690	17.5	—	—	0.310	8.0	0.160	4.0	0.200	5.2	2	100
SOF-15125	0.450	11.5	0.750	19.1	0.710	18.0	0.400	10.2	0.200	5.0	0.250	6.35	1	100
SOF-15111	0.600	15.25	0.750	19.1	0.500	12.7	0.310	8.0	0.160	4.0	0.190	4..0	2	100
SOF-15127	0.720	18.35	0.730	18.5	—	—	0.310	8.0	0.190	4.8	0.250	6.35	1	100
SOF-15126	0.980	25.0	0.890	22.5	0.500	12.7	0.340	8.7	0.160	4.0	0.570	14.5	2	100

BRR Series
Screw on Bumper Feet



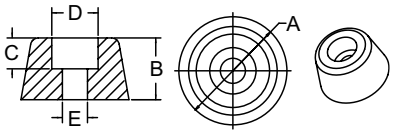
Specifications:
- Material: See Table
- Color: See Table

Features:
- Recessed bumpers are ideally suited for use as feet on radios, TV sets, house wares, small appliances and many other products
- They are fastened by means of a screw, bolt or rivet
- Can also be used as spacers or door stops
- Available in round, coved and tapered configurations



Item No.	Material	Color	Ø A		B		C		Ø D		E		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	in	mm	
BRR015A	Nylon	Natural	0.500	12.70	0.375	9.53	0.063	1.59	0.391	9.92	0.190	4.83	12000
BRR015B	Nylon	Black	0.500	12.70	0.375	9.53	0.063	1.59	0.391	9.92	0.190	4.83	12000
BRR015C	LDPE	Black	0.500	12.70	0.375	9.53	0.063	1.59	0.391	9.92	0.190	4.83	12000
BRR025A	Nylon	Natural	0.625	15.88	0.500	12.70	0.250	6.35	0.343	8.71	0.187	4.75	5000
BRR025B	Nylon	Black	0.625	15.88	0.500	12.70	0.250	6.35	0.343	8.71	0.187	4.75	5000
BRR025C	LDPE	Black	0.625	15.88	0.500	12.70	0.250	6.35	0.343	8.71	0.187	4.75	5000
BRR030A	Nylon	Natural	0.750	19.05	0.312	7.92	0.130	3.30	0.437	11.10	0.280	7.11	5000
BRR030B	Nylon	Black	0.750	19.05	0.312	7.92	0.130	3.30	0.437	11.10	0.280	7.11	5000
BRR030C	LDPE	Black	0.750	19.05	0.312	7.92	0.130	3.30	0.437	11.10	0.280	7.11	5000
BRR055A	Nylon	Natural	1.000	25.40	0.500	12.70	0.250	6.35	0.563	14.29	0.266	6.75	3200
BRR055B	Nylon	Black	1.000	25.40	0.500	12.70	0.250	6.35	0.563	14.29	0.266	6.75	3200
BRR055C	LDPE	Black	1.000	25.40	0.500	12.70	0.250	6.35	0.563	14.29	0.266	6.75	3200

BTR Series
Heavy Duty Screw on Bumper Feet



Specifications:
- Material: See Table
- Color: See Table

Features:
- They are fastened by means of a screw, bolt or rivet

Item No.	Material	Color	Ø A		B		C		Ø D		E		Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm	in	mm	
BTR020A	Nylon	Natural	0.750	19.05	0.625	15.88	0.437	11.10	0.375	9.53	0.156	3.96	5000
BTR020B	Nylon	Black	0.750	19.05	0.625	15.88	0.437	11.10	0.375	9.53	0.156	3.96	5000
BTR020C	LDPE	Natural	0.750	19.05	0.625	15.88	0.437	11.10	0.375	9.53	0.156	3.96	5000
BTR020D	LDPE	Black	0.750	19.05	0.625	15.88	0.437	11.10	0.375	9.53	0.156	3.96	5000
BTR040A	Nylon	Natural	0.750	19.05	0.750	19.05	0.470	11.94	0.440	11.18	0.196	4.98	5000
BTR040B	Nylon	Black	0.750	19.05	0.750	19.05	0.470	11.94	0.440	11.18	0.196	4.98	5000
BTR040C	LDPE	Natural	0.750	19.05	0.750	19.05	0.470	11.94	0.440	11.18	0.196	4.98	5000
BTR040D	LDPE	Black	0.750	19.05	0.750	19.05	0.470	11.94	0.440	11.18	0.196	4.98	5000

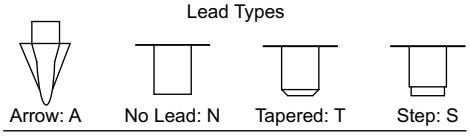
STEM BUMPERS

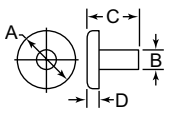
BST & BCS Series
Standard & Coved Stem Bumpers

Specifications:
- Material: Nylon
- Color: Natural

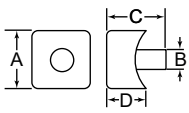
Features:
- Used to protect surfaces from contact
- Ideal for sheet metal, wood and tubing

Lead Types

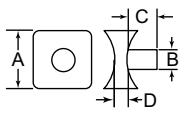




Type 1

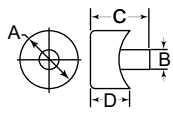


Type 2



Type 3

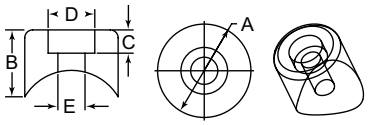
Type 4



Type 5

Item No.	Style	A (Base Size) in	A (Base Size) mm	Ø B in	Ø B mm	C in	C mm	D in	D mm	Bulk Pack Qty.
BST015A	1A	0.437	1.1	0.125	3.18	0.546	13.87	0.125	3.18	29000
BST027A	1A	0.500	2.70	0.200	5.08	0.607	15.42	0.063	1.6	20000
BST005A	1N	0.362	0.19	0.200	5.08	0.250	6.35	0.150	3.81	16000
BST025A	1N	0.500	12.70	0.190	4.83	0.325	8.26	0.150	3.81	8000
BST010A	1S	0.375	9.53	0.187	4.75	0.600	15.24	0.060	7.62	15000
BST020A	1S	0.500	12.70	0.225	4.75	0.781	19.84	0.296	7.52	8000
BST030A	1S	0.500	12.70	0.250	6.35	0.640	16.26	0.188	4.78	5000
BST040A	1S	0.500	12.70	0.335	8.51	0.858	21.79	0.435	11.05	6500
BST072A	1S	0.750	19.05	0.255	6.48	0.400	10.16	0.187	4.75	7000
BST100A	1S	0.125	28.58	0.320	8.13	0.495	12.57	0.165	4.19	5000
BST140A	1S	0.250	31.75	0.375	9.53	0.840	21.37	0.380	9.65	2300
BST075C	1T	0.750	19.05	0.250	6.35	0.687	17.45	0.187	4.75	10000
BST095A	1T	1.000	25.40	0.250	6.35	0.656	16.66	0.156	3.96	7000
BST115A	2S	0.750 x 1.00	19.05 x 25.40	0.250	6.35	0.570	14.48	0.120	3.05	5500
BST110A	3S	0.750 x 0.750	19.05 x 19.05	0.268	6.81	0.490	12.45	0.090	2.28	5000
BST135A	3S	0.620 x 0.620	15.75 x 15.75	0.250	6.35	0.450	11.43	0.128	3.05	5500
BST012A	4N	0.375	9.53	0.260	6.6	0.880	22.35	0.635	16.13	10000
BCS030C	5S	0.750	19.05	0.255	6.48	0.360	9.14	0.187	4.75	8000
BST070A	5S	0.980	24.89	0.250	6.35	0.750	19.05	0.500	12.7	35000
BST150A	5T	0.750	19.05	0.268	6.81	0.710	18.03	0.187	4.75	8000

BCR Series
Coved Screw On Bumper Feet



Specifications:
- Material: See Table
- Color: See Table

Features:
- Coved surface fits matching round tubing
- Can be used as a glide, bumper or spacer

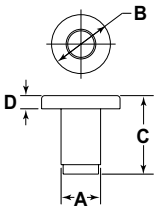
Item No.	Material	Color	Tube Ø in	Ø A in	B in	C in	Ø D in	Ø E in	Bulk Pack Qty.
BCR010A	Nylon	Natural	0.750	0.805	1.000	0.250	0.370	0.215	1500
BCR020A	Nylon	Natural	1.000	0.835	0.675	0.280	0.645	0.270	5000
BCR040A	Nylon	Natural	1.000	0.990	0.850	0.260	0.515	0.240	2800
BCR040B	Nylon	Black	1.000	0.990	0.850	0.260	0.515	0.240	2800
BCR050A	Nylon	Natural	1.000	1.000	0.812	0.312	0.500	0.218	3000
BCR050B	Nylon	Black	1.000	1.000	0.812	0.312	0.500	0.218	3000
BCR050C	LDPE	Black	1.000	1.000	0.812	0.312	0.500	0.218	3000
BCR060A	Nylon	Natural	1.000	1.000	0.828	0.265	0.484	0.305	3000
BCR060B	Nylon	Black	1.000	1.000	0.828	0.265	0.484	0.305	3000
BCR060C	LDPE	Black	1.000	1.000	0.828	0.265	0.484	0.305	3000

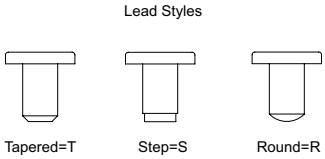
STEM BUMPERS & WELD CAPS

BFS, BFSA & SCP Series
Flat Headed Stem Bumpers

Specifications:
- Material: See Table
- Color: See Table

Features:
- Flat head stem bumpers are designed to rest against a flat or tangent surface
- The step-type or tapered lead on the stem makes insertion easy, and the press fit on the shank holds the bumper securely
- Applications include use as glides, bumpers, closures, slides and stops on many products





Item No.	Material	Color	Ø A		Ø B		C		D		Lead Style	Bulk Pack Qty.
			in	mm	in	mm	in	mm	in	mm		
BFS010A	Nylon	Natural	0.125	3.18	0.406	10.31	0.297	7.54	0.063	1.60	T	15000
BFS015A	Nylon	Natural	0.250	6.35	0.500	12.70	0.594	15.09	0.250	6.35	S	11000
BFS020A	Nylon	Natural	0.156	3.96	0.307	7.80	0.173	4.39	0.042	1.07	R	10000
BFS035A	Nylon	Natural	0.187	4.70	0.500	12.70	0.313	7.95	0.125	3.18	T	9000
BFS060A	Nylon	Natural	0.250	6.35	0.500	12.70	0.438	11.13	0.156	3.96	R	15000
BFS080A	Nylon	Natural	0.260	6.60	0.750	19.05	0.437	11.10	0.094	2.39	S	9000
BFS100A	Nylon	Natural	0.320	8.13	1.000	25.40	0.415	10.54	0.180	4.57	S	7000
BFS110A	Nylon	Natural	0.380	9.65	1.460	37.08	0.415	10.54	0.188	4.78	S	3000
BFSA010A	LDPE	Black	0.125	3.18	0.406	10.31	0.297	7.54	0.063	1.60	T	15000
BFSA015A	LDPE	Black	0.250	6.35	0.500	12.70	0.594	15.09	0.250	6.35	S	11000
BFSA035A	LDPE	Black	0.187	4.70	0.500	12.70	0.313	7.95	0.125	3.18	T	9000
BFSA060A	LDPE	Black	0.250	6.35	0.500	12.70	0.438	11.13	0.156	3.96	R	15000
BFSA080A	LDPE	Black	0.260	6.60	0.750	19.05	0.437	11.10	0.094	2.39	S	9000
BFSA100A	LDPE	Black	0.320	8.13	1.000	25.40	0.415	10.54	0.180	4.57	S	7000
BFSA110A	LDPE	Black	0.380	9.65	1.460	37.08	0.415	10.54	0.188	4.78	S	3000
SCP2520B	HDPE	Black	0.252	6.40	0.748	19.00	0.715	18.16	0.150	3.81	N	5000

WCG Series
Weld Cups for Wrought Iron

Specifications:
- Material: High-Density Polyethylene
- Color: Natural

Features:
- Center air hole
- Fits standard steel weld cups

Style 1

Style 2

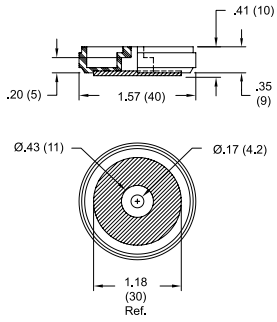
Item No.	ID of Weld Cup		Hole Ø		Style	Bulk Pack Qty.
	in	mm	in	mm		
WCG1000A	1.415	35.95	0.094	2.40	1	1800
WCG1100A	1.250	31.80	0.094	2.40	1	2500
WCG1200A	1.420	36.09	0.093	2.37	2	1800
WCG1300B	1.250	31.80	0.094	2.40	2	2800

ON A ROLL

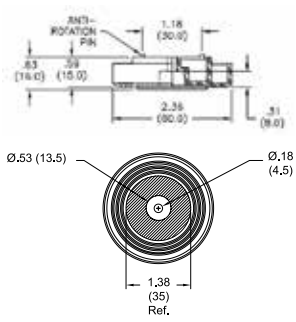
Browse our large selection of casters on pages 313 - 317.

BUMPERS

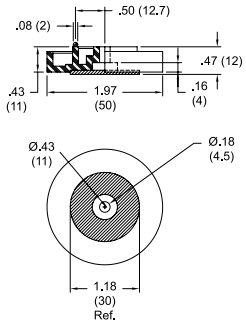
BF Series
Big Screw Mount Foot



BF-1001



BF-1002



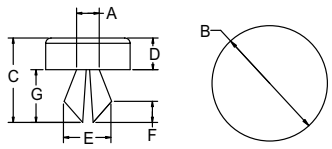
BF-1005

Specifications:
- Foot Material: UL94 HB ABS
- Pad Material: Nylon Fiber
- Color: Black

Features:
- Ideal for heavy duty applications
- Mounted securely with a #8 (M4) pan head screw
- Nylon fiber pad material helps prevent abrasion

Item No.	Load Capacity		Bulk Pack Qty.
	lbs	kg	
BF-1001	22	10	100
BF-1002	22	10	100
BF-1005	22	10	100

BSS Series
Flat Head Split Stem Bumpers

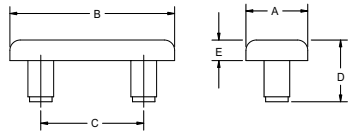


Specifications:
- Material: Nylon
- Color: Natural

Features:
- Produced with a split stem portion and undercut to make insertion easy and removal difficult
- Used as panel plugs and bumpers

Item No.	Hole Ø		Ø A		B		C		D		E		F		G		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
BSS010A	0.156	3.96	0.152	3.86	0.500	12.70	0.312	7.92	0.063	1.60	0.166	4.22	0.063	1.60	0.187	4.75	14000
BSS015A	0.265	6.73	0.260	6.60	0.750	19.00	0.625	15.88	0.187	4.75	0.290	7.37	0.125	3.18	0.312	7.92	10500

BDS Series
Double Stem Bumpers

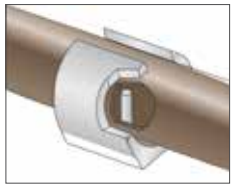


Specifications:
- Material: Nylon 6
- Color: Natural

Features:
- Designed for applications requiring a bumper with a large head area

Item No.	Hole Ø		A		B		C		D		E		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
BDS010A	0.187	4.75	0.375	9.53	1.000	25.40	0.625	15.88	0.500	12.70	0.125	3.18	3500

SG Series
Snap-In Saddle Glides and Feet

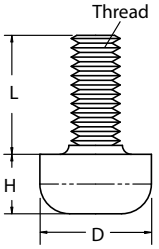


Specifications:
- Materials: See Table
- Color: See Table

Features:
- Designed to snap onto horizontal legs of chairs, tables and stands

Item No.	Tube Size	Material	Color	Bulk Pack Qty.
	in			
SG1000B	0.625	K-Resin	Clear	4000
SG1050A	0.875	ABS	Black	2500
SG1100A	1.000	ABS	Black	1400

TB Series
Threaded Insert Bumper



Specifications:
- Material: IIR; 40-50 Shore A
- Stem: Brass

Features:
- Can be used as a leveling device or bumper for small equipment
- Non-corrosive stud

Item No.	Thread	H		L		D		Bulk Pack Qty.
		in	mm	in	mm	in	mm	
TB-1	#6-32	0.200	5.1	0.400	10.2	0.380	9.5	100
TB-2	#8-32	0.200	5.1	0.400	10.2	0.380	9.5	100
TB-3	M3	0.200	5.1	0.400	10.2	0.380	9.5	100
TB-4	M4	0.200	5.1	0.400	10.2	0.380	9.5	100

RBS/STF Series
Bumpers/Stick-On Feet

Specifications:
- Material: Polyurethane
- Adhesive: Rubber
- Color: See Table
- Application Temperature: 65°F to 150°F

Features:
- Will not tarnish, scratch, or discolor any surface
- Easy to use - simply peel & stick
- Adhesion works best on a smooth, clean & dry surface
- Commonly used as rubber feet, cabinet stoppers, door stops & surface protectors

Cylindrical
On A Pad

Item No.		Ø		Height			Bulk Pack Qty.
Clear	Black	in	mm	in	mm	Pieces/Pad	
RBS-34	RBS-34BK	0.375	9.5	0.125	3.2	300	300
RBS-35	RBS-35BK	0.375	9.5	0.190	4.8	50	200
RBS-5	RBS-5BK	0.500	12.7	0.060	1.5	200	200
RBS-1	RBS-1BK	0.500	12.7	0.140	3.6	200	200
RBS-6	RBS-6BK	0.500	12.7	0.250	6.4	50	200
RBS-11	RBS-11BK	0.650	15.7	0.400	10.2	128	128
RBS-44	RBS-44BK	0.750	19.1	0.160	4.1	98	98
RBS-41	RBS-41BK	0.780	19.8	0.200	5.1	84	84
RBS-24	RBS-24BK	0.810	20.6	0.120	3.0	72	72
RBS-72	RBS-72BK	1.240	31.5	0.100	2.5	32	32

Hemisphere
On A Pad

Item No.		Ø		Height			Bulk Pack Qty.
Clear	Black	in	mm	in	mm	Pieces/Pad	
RBS-40	RBS-40BK	0.250	6.4	0.062	1.6	578	578
STFHEM250087A	STFHEM250087B	0.250	6.4	0.087	2.2	450	450
RBS-27	RBS-27BK	0.312	7.9	0.085	2.2	450	450
RBS-7	RBS-7BK	0.335	8.5	0.085	2.2	450	450
RBS-12	RBS-12BK	0.375	9.5	0.150	3.8	72	72
RBS-22	RBS-22BK	0.375	9.5	0.221	5.6	300	300
RBS-10	—	0.390	9.9	0.120	3.0	288	288
RBS-2	RBS-2BK	0.440	11.2	0.200	5.1	242	242
RBS-15	RBS-15BK	0.620	15.7	0.310	7.9	128	128
RBS-8	RBS-8BK	0.720	18.3	0.380	9.7	98	98
RBS-37	RBS-37BK	0.720	18.3	0.560	14.2	100	100
RBS-39	RBS-39BK	0.750	19.1	0.075	1.9	98	84

Square
On A Pad

Item No.	Item No.	Ø		Height			Bulk Pack Qty.
Clear	Black	in	mm	in	mm	Pieces/Pad	
RBS-20	RBS-20BK	0.400	10.2	0.100	2.5	242	242
RBS-32R	RBS-32RBK	0.500	12.7	0.120	3.0	200	200
RBS-3R	RBS-3RBK	0.500	12.7	0.230	5.8	200	200
RBS-4	RBS-4BK	0.750	19.1	0.340	8.6	100	100
RBS-29	RBS-29BK	0.780	19.8	0.250	6.4	98	98
RBS-19	RBS-19BK	0.810	20.6	0.300	7.6	98	98
RBS-36	RBS-36BK	1.000	25.4	0.180	4.6	55	55

BUMPERS & STICK ON FEET

RBS Series
Bumpers/Stick-On Feet (continued)

Round Recessed
On A Pad

Item No.		Ø		Height			Bulk Pack Qty.
Clear	Black	in	mm	in	mm	Pieces/Pad	
RBS-18	RBS-18BK	0.500	12.7	0.140	3.6	200	200
RBS-17	RBS-17BK	0.880	22.4	0.400	10.2	72	72
RBS-30	RBS-30BK	1.800	45.7	0.600	15.2	100	100

ASP Series
Anti Slip Pads

Round
On A Roll

Specifications:
- Material: Polyethylene Foam
- High tack permanent adhesive

	Ø		Height		
Item No.	in	mm	in	mm	Pieces/Roll
ASPR-8-062	0.500	12.7	0.062	1.6	1000
ASPR-12-062	0.750	19.1	0.062	1.6	1000
ASPR-16-062	1.000	25.4	0.062	1.6	1000
ASPR-8-125	0.500	12.7	0.125	3.2	1000
ASPR-12-125	0.750	19.1	0.125	3.2	1000
ASPR-16-125	1.000	25.4	0.125	3.2	1000

Square
On A Pad

	Ø		Height		
Item No.	in	mm	in	mm	Pieces/Pad
ASPS-8-062	0.500	12.7	0.062	1.6	40
ASPS-12-062	0.750	19.1	0.062	1.6	20
ASPS-16-062	1.000	25.4	0.062	1.6	8
ASPS-8-125	0.500	12.7	0.125	3.2	40
ASPS-12-125	0.750	19.1	0.125	3.2	20
ASPS-16-125	1.000	25.4	0.125	3.2	8

STAINLESS STEEL CASTERS

Stainless Steel with Swivel Plate

STAINLESS STEEL

Specifications:
- Housing Material: Stainless Steel
- Wheel Material: See Table

Features:
- Resistant to corrosion and rust
- Typical applications include medical, autoclave operations or where wash down of equipment is required

Poly / Polypropylene Core

Polypropylene

TPR

NEW

Item No.	Wheel Specifications: Wheel Diameter x Width in	Wheel Type	Capacity lbs	OAH in	Bearing	Swivel Radius in	Plate Specifications: Overall Size L x W in	Mouting Hole Width in	Ø Bolt Hole in	Bulk Pack Qty.
1256091	3.5 x 1.25	Poly/Polypropylene Core	300	4.688	Two Piece Delrin	2.5	3.625 x 2.5	1.75	0.313	16
1256093	3.5 x 1.25	Poly/Polypropylene Core	350	4.688	Delrin	2.5	3.625 x 2.5	1.75	0.313	16
1256094	3.5 x 1.25	TPR	250	4.688	Two Piece Delrin	2.5	3.625 x 2.5	1.75	0.313	16
1256096	4 x 1.25	Poly/Polypropylene Core	350	5.125	Two Piece Delrin	2.5	3.625 x 2.5	1.75	0.313	16
1256098	4 x 1.25	Poly/Polypropylene Core	350	5.125	Two Piece Delrin	2.5	3.625 x 2.5	1.75	0.313	16
1256099	4 x 1.25	TPR	300	5.125	Two Piece Delrin	2.5	3.625 x 2.5	1.75	0.313	16
1256111	5 x 1.25	Polypropylene	350	6.188	Two Piece Delrin	3.0	3.625 x 2.5	1.75	0.313	16
1256113	5 x 1.25	Poly/Polypropylene Core	350	6.188	Two Piece Delrin	3.0	3.625 x 2.5	1.75	0.313	16
1256114	5 x 1.25	Poly/Polypropylene Core	325	6.188	Two Piece Delrin	3.0	3.625 x 2.5	1.75	0.313	16

Stainless Steel Swivel Plate with Brake

STAINLESS STEEL

Urethane

Polyolefin

Guidelines to Help You Select the Correct Caster
See Page 317

Item No.	Wheel Specifications: Wheel Diameter x Width in	Wheel Type	Capacity lbs	OAH in	Bearing	Swivel Radius in	Plate Specifications: Overall Size L x W in	Mouting Hole Width in	Ø Bolt Hole in	Bulk Pack Qty.
1256107	4 x 2	Polyolefin	900	5.625	Two Piece Delrin	1.438	4 x 4.5	2.625 to 3.000	0.375	8
1256108	4 x 2	Urethane	600	5.625	Two Piece Delrin	1.438	4 x 4.5	2.625 to 3.000	0.375	8
1256109	6 x 2	Urethane	375	5.625	Two Piece Delrin	1.438	4 x 4.5	2.625 to 3.000	0.375	8
1256116	5 x 2	Polyolefin	900	6.500	Two Piece Delrin	1.625	4 x 4.5	2.625 to 3.000	0.375	8
1256117	5 x 2	Urethane	900	6.500	Two Piece Delrin	1.625	4 x 4.5	2.625 to 3.000	0.375	8
1256118	5 x 2	Urethane	375	6.500	Two Piece Delrin	1.625	4 x 4.5	2.625 to 3.000	0.375	8
1256138	6 x 2	Urethane	900	7.500	Two Piece Delrin	1.875	4 x 4.5	2.625 to 3.000	0.375	8
1256139	6 x 2	Urethane	600	7.500	Two Piece Delrin	1.875	4 x 4.5	2.625 to 3.000	0.375	8
1256141	6 x 2	Polyolefin	900	7.500	Two Piece Delrin	1.875	4 x 4.5	2.625 to 3.000	0.375	8
1256169	8 x 2	Polyolefin	1200	9.500	Two Piece Delrin	2.375	4 x 4.5	2.625 to 3.000	0.375	8
1256170	8 x 2	Urethane	1000	9.500	Two Piece Delrin	2.375	4 x 4.5	2.625 to 3.000	0.375	8
1256171	6 x 2	Urethane	600	9.500	Two Piece Delrin	2.375	4 x 4.5	2.625 to 3.000	0.375	8

Stainless Steel Rigid Plate

STAINLESS STEEL

Polypropylene

Poly / Polypropylene Core

TPR

Urethane

Soft Rubber

Polyolefin

Item No.	Wheel Specifications: Wheel Diameter x Width in	Wheel Type	Capacity lbs	OAH in	Bearing	Plate Specifications: Overall Size L x W in	Mouting Hole Width in	Ø Bolt Hole in	Bulk Pack Qty.
1256192	3.5 x 1.25	Polypropylene	300	4.688	Two Piece Delrin	3 x 2.5	1.750	0.313	16
1256194	3.5 x 1.25	Poly/Polypropylene Core	350	4.688	Delrin	3 x 2.5	1.750	0.313	16
1256195	3.5 x 1.25	TPR	250	4.688	Two Piece Delrin	3 x 2.5	1.750	0.313	16
1256198	4 x 1.25	Polypropylene	350	5.125	Two Piece Delrin	3.625 x 2.5	1.750	0.313	16
1256200	4 x 1.25	Poly/Polypropylene Core	350	5.125	Two Piece Delrin	3.625 x 2.5	1.750	0.313	16
1256201	4 x 1.25	TPR	300	5.125	Two Piece Delrin	3.625 x 2.5	1.750	0.313	16
1256204	5 x 1.25	Polypropylene	350	6.188	Two Piece Delrin	3.625 x 2.5	1.750	0.313	16
1256206	5 x 1.25	Polypropylene	350	6.188	Two Piece Delrin	3.625 x 2.5	1.750	0.313	16
1256207	5 x 1.25	TPR	325	6.188	Two Piece Delrin	3.625 x 2.5	1.750	0.313	16
1256213	4 x 2	Urethane	600	5.625	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256214	4 x 2	Soft Rubber	350	5.625	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256216	4 x 2	Polyolefin	900	5.625	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256219	5 x 2	Urethane	900	6.500	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256220	5 x 2	Soft Rubber	375	6.500	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256222	5 x 2	Polyolefin	900	6.500	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256223	6 x 2	Urethane	900	7.500	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256226	6 x 2	Soft Rubber	600	7.500	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256227	6 x 2	Polyolefin	900	7.500	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256228	6 x 2	Polyolefin	900	9.500	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256230	8 x 2	Urethane	1000	5.625	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8
1256231	8 x 2	Soft Rubber	900	8.500	Two Piece Delrin	4 x 4.5	2.625 to 3.000	0.375	8

STAINLESS STEEL HIGH TEMPERATURE CASTERS

Stainless Steel Swivel Plate

STAINLESS STEEL

Specifications:
- Housing Material: Stainless Steel
- Wheel Material: See Table

Features:
- Suitable for high temperature operating environments
- Temperature range up to 500°F
- Resistant to corrosion and rust
- Ideal for Powder Coating, all types of ovens and other applications that require resistance to high temperatures

Nylon

Polypropylene Retort

NEW

Item No.	Wheel Specifications: Wheel Diameter x Width in	Wheel Type	Capacity lbs	OAH in	Bearing	Swivel Radius in	Plate Specifications: Overall Size L x W in	Mouting Hole Width in	Ø Plate Bolt Hole in	Bulk Pack Qty.
1256090	3.5 x 1.25	Nylon	300	4.688	Plain Bore	2.5	3.625 x 2.5	1.75	0.313	16
1256092	3.5 x 1.25	Polypropylene Retort	300	4.688	Plain Bore	2.5	3.625 x 2.5	1.75	0.313	16
1256095	4.0 x 1.25	Nylon	350	5.125	Plain Bore	2.5	3.625 x 2.5	1.75	0.313	16
1256097	4.0 x 1.25	Polypropylene Retort	150	5.125	Plain Bore	2.5	3.625 x 2.5	1.75	0.313	16
1256112	5.0 x 1.25	Polypropylene Retort	175	6.188	Plain Bore	3.0	3.625 x 2.5	1.75	0.313	16

Stainless Steel Swivel Plate with Brake

STAINLESS STEEL

Nylon

Guidelines to Help You Select the Correct Caster
See Page 317

Item No.	Wheel Specifications: Wheel Diameter x Width in	Wheel Type	Capacity lbs	OAH in	Bearing	Swivel Radius in	Plate Specifications: Overall Size L x W in	Mouting Hole Width in	Ø Plate Bolt Hole in	Bulk Pack Qty.
1256106	4.0 x 2.0	Nylon	900	5.625	Roller	2.876	4 x 4.5	2.625 to 3.000	0.375	8
1256115	5.0 x 2.0	Nylon	900	6.500	Roller	3.25	4.x 4.5	2.625 to 3.000	0.375	8
1256140	6.0 x 2.0	Nylon	900	7.500	Roller	3.75	4 x 4.5	2.625 to 3.000	0.375	8

Stainless Steel Rigid Plate

STAINLESS STEEL

Nylon Plain Bore

Polypropylene Retort

Nylon Roller Bore

Item No.	Wheel Specifications: Wheel Diameter x Width in	Wheel Type	Capacity lbs	OAH in	Bearing	Plate Specifications: Overall Size L x W in	Mouting Hole Width in	Ø Plate Bolt Hole in	Bulk Pack Qty.
1256191	3.5 x 1.25	Nylon	300	4.688	Plain Bore	3.625 x 2.5	1.750	0.313	16
1256193	3.5 x 1.25	Polypropylene Retort	300	4.688	Plain Bore	3.625 x 2.5	1.750	0.313	16
1256197	4.0 x 1.25	Nylon	350	5.125	Plain Bore	3.625 x 2.5	1.750	0.313	16
1256199	4.0 x 1.25	Polypropylene Retort	150	5.125	Plain Bore	3.625 x 2.5	1.750	0.313	16
1256203	5.0 x 1.25	Nylon	350	6.188	Plain Bore	3.625 x 2.5	1.750	0.313	16
1256205	5.0 x 1.25	Polypropylene Retort	175	6.188	Plain Bore	3.625 x 2.5	1.750	0.313	16
1256215	4.0 x 2.0	Nylon	900	5.625	Roller	4.0 x 4.5	2.625 to 3.000	0.375	8
1256221	5.0 x 2.0	Nylon	900	6.500	Roller	4.0 x 4.5	2.625 to 3.000	0.375	8
1256229	6.0 x 2.0	Nylon	900	7.500	Roller	4.0 x 4.5	2.625 to 3.000	0.375	8
1256232	8.0 x 2.0	Nylon	900	9.500	Roller	4.0 x 4.5	2.625 to 3.000	0.375	8

Steel Rigid Plate Casters

NEW

TPR

Rubber

Steel

Polyurethane

Polyolefin

Phenolic

Specifications:
- Housing Material: Zinc Plated Steel
- Wheel Material: See Table

Features:
- Economical solution for general applications

Guidelines to Help You Select the Correct Caster
See Page 317

Item No.	Wheel Specifications					Plate Specifications			Bulk Pack Qty.
	Wheel Diameter x Width in	Wheel Type	Capacity lbs	OAH in	Bearing	Overall Size L x W in	Mouting Hole Width in	Ø Plate Bolt Hole in	
1256086	3 x .813	Soft Rubber	110	3.500	Plain Bore	2.625 x 3.750	1.750	0.313	40
1256087	3 x .813	TPR	110	3.500	Plain Bore	2.625 x 3.750	1.750	0.313	40
1256088	3 x .813	Hard Rubber	125	3.500	Plain Bore	2.625 x 3.750	1.750	0.313	40
1256089	3 x .813	Polyolefin	125	3.500	Plain Bore	2.625 x 3.750	1.750	0.313	40
1256123	4 x .938	Soft Rubber	125	4.875	Plain Bore	2.625 x 3.750	1.750	0.313	20
1256124	4 x .938	TPR	125	4.875	Plain Bore	2.625 x 3.750	1.750	0.313	20
1256125	4 x .938	Hard Rubber	150	4.875	Plain Bore	2.625 x 3.750	1.750	0.313	20
1256126	4 x .938	Polyolefin	150	4.875	Plain Bore	2.625 x 3.750	1.750	0.313	20
1256147	5 x .938	Soft Rubber	130	5.875	Plain Bore	2.625 x 3.750	1.750	0.313	15
1256148	5 x .938	TPR	130	5.875	Plain Bore	2.625 x 3.750	1.750	0.313	15
1256149	5 x .938	Hard Rubber	150	5.875	Plain Bore	2.625 x 3.750	1.750	0.313	15
1256150	5 x .938	Polyolefin	150	5.875	Plain Bore	2.625 x 3.750	1.750	0.313	15
1256178	2 x .813	Soft Rubber	90	2.500	Plain Bore	1.50 x 2.656	0.938	0.25	100
1256179	2 x .813	Polyolefin	125	2.500	Plain Bore	1.50 x 2.656	0.938	0.25	100
1256180	2 x .813	Hard Rubber	125	2.500	Plain Bore	1.50 x 2.656	0.938	0.25	100
1256181	2 x .813	Steel	125	2.500	Plain Bore	1.50 x 2.656	0.938	0.25	48
1256182	2.5 x 1.125	Soft Rubber	100	3.250	Plain Bore	2.125 x 4.375	1.063	0.313	40
1256183	2.5 x 1.125	Polyolefin	175	3.250	Plain Bore	2.125 x 4.375	1.063	0.313	40
1256184	2.5 x 1.125	Hard Rubber	175	3.250	Plain Bore	2.125 x 4.375	1.063	0.313	40
1256185	2.5 x 1.125	Steel	175	3.250	Plain Bore	2.125 x 4.375	1.063	0.313	24
1256186	3 x 1.250	Polyurethane	250	4.250	Ball Bearings	1.750 x 2.813	2.750 to 3.000	0.313	20
1256187	2 x .813	Soft Rubber	90	3.813	Plain Bore	2.313 x 4.875	1.188	0.313	32
1256188	3 x 1.250	Polyolefin	210	3.813	Plain Bore	2.313 x 4.875	1.188	0.313	32
1256189	3 x 1.250	Hard Rubber	225	3.813	Plain Bore	2.313 x 4.875	1.188	0.313	32
1256190	3 x 1.250	Steel	225	3.813	Plain Bore	2.313 x 4.875	1.188	0.313	16
1256196	4 x 1.250	Polyurethane	300	5.25	Ball Bearings	1.750 x 2.813	2.750 to 3.000	0.313	20
1256202	5 x 1.250	Polyurethane	350	6.25	Ball Bearings	1.750 x 2.813	2.750 to 3.000	0.313	20
1256208	4 x 1.375	Soft Rubber	200	5.000	Plain Bore	3.125 x 6.125	1.750	0.375	18
1256209	4 x 1.375	Polyolefin	250	5.000	Plain Bore	3.125 x 6.125	1.750	0.375	18
1256210	4 x 1.375	Hard Rubber	300	5.000	Plain Bore	3.125 x 6.125	1.750	0.375	18
1256211	4 x 2	Polyurethane	500	5.625	Roller Bearings	4 x 4.5	2.625 to 3.000	0.375	8
1256212	4 x 2	Phenolic	800	5.625	Roller Bearings	4 x 4.5	2.625 to 3.000	0.375	8
1256217	5 x 2	Polyurethane	600	6.500	Roller Bearings	4 x 4.5	2.625 to 3.000	0.375	8
1256218	5 x 2	Phenolic	1000	6.500	Roller Bearings	4 x 4.5	2.625 to 3.000	0.375	8
1256224	6 x 2	Polyurethane	800	7.500	Roller Bearings	4 x 4.5	2.625 to 3.000	0.375	8
1256225	6 x 2	Phenolic	1200	7.500	Roller Bearings	4 x 4.5	2.625 to 3.000	0.375	8

SWIVEL CASTERS

Steel Swivel Plate Casters

Soft Rubber

Steel

TPR

NEW

Polyolefin

Phenolic

Hard Rubber

Specifications:
- Housing Material: Zinc Plated Steel
- Wheel Material: See Table

Features:
- Provides 360° rotation
- Economical solution for general applications

Guidelines to Help You Select the Correct Caster
See Page 317

Item No.	Wheel Specifications						Plate Specifications			Bulk Pack Qty.
	Wheel Diameter x Width in	Wheel Type	Capacity lbs	OAH in	Bearing	Swivel Radius in	Overall Size L x W in	Mouting Hole Width in	Ø Plate Bolt Hole in	
1256054	2 x .813	Soft Rubber	90	2.500	Plain Bore	1.813	1.938 x 2.563	0.938	0.250	100
1256055	2 x .813	Polyolefin	125	2.500	Plain Bore	1.813	1.938 x 2.563	0.938	0.250	100
1256056	2 x .813	Hard Rubber	125	2.500	Plain Bore	1.813	1.938 x 2.563	0.938	0.250	100
1256057	2 x .813	Steel	125	2.500	Plain Bore	1.813	1.938 x 2.563	0.938	0.250	48
1256058	2 x .813	TPR	80	2.625	Plain Bore	1.938	1.188 x 2	0.813	0.188	100
1256059	2 x .813	Hard Rubber	90	2.625	Plain Bore	1.938	1.188 x 2	0.813	0.188	100
1256060	2 x .813	Polyolefin	90	2.625	Plain Bore	1.938	1.188 x 2	0.813	0.188	100
1256065	2 x .813	Soft Rubber	80	2.625	Plain Bore	1.938	1.188 x 2	0.813	0.188	100
1256066	2.5 x .813	Soft Rubber	80	3.125	Plain Bore	2.125	1.188 x 2	0.813	0.188	80
1256067	2.5 x .813	TPR	80	3.125	Plain Bore	2.125	1.188 x 2	0.813	0.188	80
1256068	2.5 x .813	Hard Rubber	95	3.125	Plain Bore	2.125	1.188 x 2	0.813	0.188	80
1256069	2.5 x .813	Polyolefin	95	3.125	Plain Bore	2.125	1.188 x 2	0.813	0.188	80
1256074	2.5 x 1.125	Soft Rubber	100	3.250	Plain Bore	2.250	2.750 x 3.875	1.750	0.313	40
1256075	2.5 x 1.125	Polyolefin	175	3.250	Plain Bore	2.250	2.750 x 3.875	1.750	0.313	40
1256076	2.5 x 1.125	Hard Rubber	175	3.250	Plain Bore	2.250	2.750 x 3.875	1.750	0.313	40
1256077	2.5 x 1.125	Steel	175	3.250	Plain Bore	2.250	2.750 x 3.875	1.750	0.313	24
1256078	3 x .813	Soft Rubber	110	3.500	Plain Bore	2.500	2.625 x 3.750	1.750	0.313	40
1256079	3 x .813	TPR	110	3.500	Plain Bore	2.500	2.625 x 3.750	1.750	0.313	40
1256080	3 x .813	Hard Rubber	120	3.500	Plain Bore	2.500	2.625 x 3.750	1.750	0.313	40
1256081	3 x .813	Polyolefin	120	3.500	Plain Bore	2.500	2.625 x 3.750	1.750	0.313	40
1256100	3 x 1.250	Soft Rubber	150	3.813	Plain Bore	2.625	3.125 x 4.125	2.375	0.313	32
1256101	3 x 1.250	Polyolefin	210	3.813	Plain Bore	2.625	3.125 x 4.125	2.375	0.313	32
1256102	3 x 1.250	Hard Rubber	225	3.813	Plain Bore	2.625	3.125 x 4.125	2.375	0.313	32
1256103	3 x 1.250	Steel	225	3.813	Plain Bore	2.625	3.125 x 4.125	2.375	0.313	16
1256127	4 x .938	Soft Rubber	125	4.875	Plain Bore	3.438	2.625 x 3.750	1.750	0.313	20
1256128	4 x .938	TPR	125	4.875	Plain Bore	3.438	2.625 x 3.750	1.750	0.313	20
1256129	4 x .938	Hard Rubber	150	4.875	Plain Bore	3.438	2.625 x 3.750	1.750	0.313	20
1256130	4 x .938	Polyolefin	150	4.875	Plain Bore	3.438	2.625 x 3.750	1.750	0.313	20
1256135	4 x 1.375	Soft Rubber	200	5.000	Plain Bore	3.438	4 x 5.125	3.000	0.375	18
1256136	4 x 1.375	Polyolefin	250	5.000	Plain Bore	3.438	4 x 5.125	3.000	0.375	18
1256137	4 x 1.375	Hard Rubber	300	5.000	Plain Bore	3.438	4 x 5.125	3.000	0.375	18
1256151	5 x .938	Soft Rubber	130	5.875	Plain Bore	4.125	2.625 x 3.750	1.750	0.313	15
1256152	5 x .938	TPR	130	5.875	Plain Bore	4.125	2.625 x 3.750	1.750	0.313	15
1256153	5 x .938	Hard Rubber	150	5.875	Plain Bore	4.125	2.625 x 3.750	1.750	0.313	15
1256154	5 x .938	Polyolefin	150	5.875	Plain Bore	4.125	2.625 x 3.750	1.750	0.313	15
1256159	3 x 1.250	Polyurethane	250	4.250	Precision Bearings	4.375	2.625 x 3.750	1.750	0.313	20
1256161	4 x 1.250	Polyurethane	300	5.250	Precision Bearings	4.375	2.625 x 3.750	1.750	0.313	20
1256163	5 x 1.250	Polyurethane	315	6.250	Precision Bearings	4.375	2.625 x 3.750	1.750	0.313	20
1256167	6 x 2	Phenolic	1200	7.500	Roller Bearings	4.750	4 x 4.5	2.625 to 3.000	0.375	8
1256172	4 X 2	Polyurethane	500	5.625	Roller Bearings	5.438	4 x 4.5	2.625 to 3.000	0.375	8
1256173	4 X 2	Phenolic	800	5.625	Roller Bearings	5.438	4.5 x 7	2.625 to 3.000	0.375	8
1256174	5 x 2	Polyurethane	600	6.500	Roller Bearings	5.813	4.5 x 5	2.625 to 3.000	0.375	8
1256175	5 x 2	Phenolic	900	6.500	Roller Bearings	5.813	4.5 x 8	2.625 to 3.000	0.375	8
1256176	6 x 2	Polyurethane	720	7.500	Roller Bearings	6.000	4.5 x 6	2.625 to 3.000	0.375	8
1256177	6 x 2	Phenolic	900	7.500	Roller Bearings	6.000	4.5 x 9	2.625 to 3.000	0.375	8

Steel Threaded Stem Casters

Rubber

TPR

Polyolefin

NEW

Specifications:
- Housing Material: Zinc Plated Steel
- Wheel Material: See Table

Features:
- Economical solution for general applications

Item No.	Wheel Diameter x Width In	Wheel Type	Capacity lbs	OAH	Bearing	Swivel Radius	Stem Size Length x Width In	Thread Size In	Bulk Pack Qty.
1256061	2 x .813	Soft Rubber	80	2.625	Plain Bore	1.938	1-1/2 x 3/8	3/8-16	100
1256062	2 x .813	TPR	80	2.625	Plain Bore	1.938	1-1/2 x 3/8	3/8-16	100
1256063	2 x .813	Hard Rubber	90	2.625	Plain Bore	1.938	1-1/2 x 3/8	3/8-16	100
1256064	2 x .813	Polyolefin	90	2.625	Plain Bore	1.938	1-1/2 x 3/8	3/8-16	100
1256070	2.5 x .813	Soft Rubber	80	3.125	Plain Bore	2.125	1-1/2 x 3/8	3/8-16	80
1256071	2.5 x .813	TPR	80	3.125	Plain Bore	2.125	1-1/2 x 3/8	3/8-16	80
1256072	2.5 x .813	Hard Rubber	95	3.125	Plain Bore	2.125	1-1/2 x 3/8	3/8-16	80
1256073	2.5 x .813	Polyolefin	95	3.125	Plain Bore	2.125	1-1/2 x 3/8	3/8-16	80
1256082	3 x .813	Soft Rubber	110	3.500	Plain Bore	2.500	1-1/2 x 3/8	3/8-16	60
1256083	3 x .813	TPR	110	3.500	Plain Bore	2.500	1-1/2 x 3/8	3/8-16	60
1256084	3 x .813	Hard Rubber	125	3.500	Plain Bore	2.500	1-1/2 x 3/8	3/8-16	60
1256085	3 x .813	Polyolefin	125	3.500	Plain Bore	2.500	1-1/2 x 3/8	3/8-16	60
1256131	4 x .938	Soft Rubber	125	4.750	Plain Bore	3.438	1-1/2 x 3/8	3/8-16	20
1256132	4 x .938	TPR	125	4.750	Plain Bore	3.438	1-1/2 x 3/8	3/8-16	20
1256133	4 x .938	Hard Rubber	150	4.750	Plain Bore	3.438	1-1/2 x 3/8	3/8-16	20
1256134	4 x .938	Polyolefin	150	4.750	Plain Bore	3.438	1-1/2 x 3/8	3/8-16	20
1256155	5 x .938	Soft Rubber	130	5.750	Plain Bore	4.125	1-1/2 x 3/8	3/8-16	15
1256156	5 x .938	TPR	130	5.750	Plain Bore	4.125	1-1/2 x 3/8	3/8-16	15
1256157	5 x .938	Hard Rubber	150	5.750	Plain Bore	4.125	1-1/2 x 3/8	3/8-16	15
1256158	5 x .938	Polyolefin	150	5.750	Plain Bore	4.125	1-1/2 x 3/8	3/8-16	15

GUIDELINES TO HELP YOU SELECT THE CORRECT CASTER

Load Capacity

In order to determine the load capacity for each caster you must divide the combined weight and maximum load of the equipment by the number of casters to be used.

This is the load that each caster must support. Always select a caster that is rated with a load capacity greater than the calculated load per caster.

Calculation

$$\frac{\text{MAXIMUM WEIGHT OF EQUIPMENT}}{\text{NUMBER OF CASTERS USED}} = \text{APPROXIMATE LOAD CAPACITY}$$

WORKHOLDING

NEW

STAINLESS STEEL TOGGLE CLAMPS .....320 - 322

VERTICAL TOGGLE CLAMPS.....322 - 324

HORIZONTAL TOGGLE CLAMPS .....325 - 326

PUSH PULL TOGGLE CLAMPS .....327 - 328

TOGGLE CLAMP ACCESSORIES 329

TOGGLE CLAMP LATCHES 330

TOGGLE CLAMP HOOKS 331

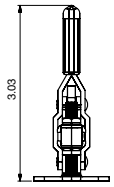
TOGGLE CLAMP PLIERS.....331

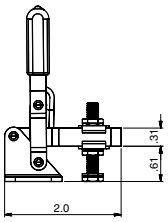
STAINLESS STEEL TOGGLE CLAMPS

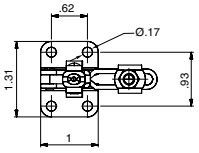
SR5452 Series
Toggle Clamp Vertical Stainless Steel

Specifications
- Material:
  Clamp: Stainless Steel
  Grip: PVC (Red)
  Spindle: Stainless Steel

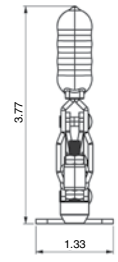
Features
- Hand grip with cushioned rib profile for improved user comfort
- All body and linkage components on the clamps are manufactured from a high grade of stainless steel suitable for use within the food, pharmaceutical and chemical industries
- Pivot points are fitted with stainless steel rivets to maintain accuracy and provide a long service life

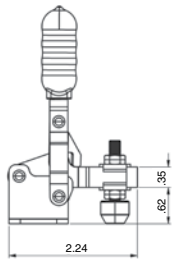


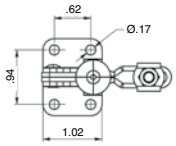




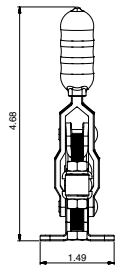
Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493803	110 lbf.	100°	56°	1

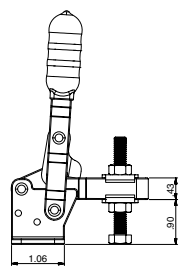


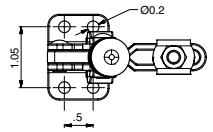




Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493804	110 lbf.	130° - 190°	90° - 125°	1





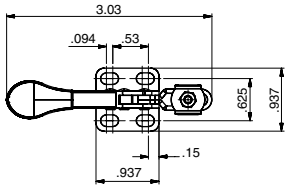


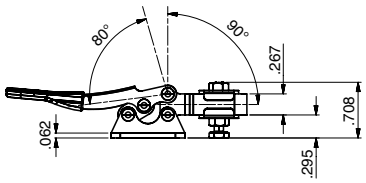
Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493805	330 lbf.	95° - 185°	75° - 110°	1

SR5453 Series
Toggle Clamp Horizontal Stainless Steel

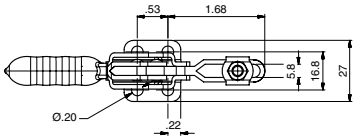
Specifications
- Material:
  Clamp: Stainless Steel
  Grip: PVC (Red)
  Spindle: Stainless Steel

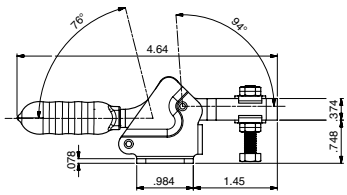
Features
- Hand grip with cushioned rib profile for improved user comfort
- All body and linkage components on the clamps are manufactured from, a high grade of stainless steel suitable for use within the food, pharmaceutical and chemical industries
- Pivot points are fitted with stainless steel rivets to maintain accuracy and provide a long service life



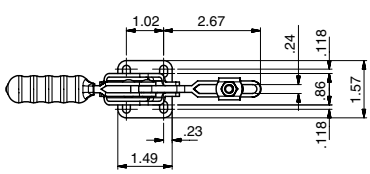


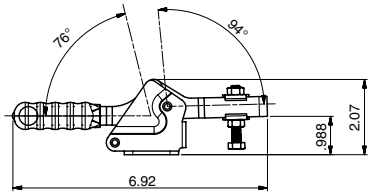
Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493806	83 lbf.	90°	80°	1





Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493807	143 lbf.	94°	76°	1





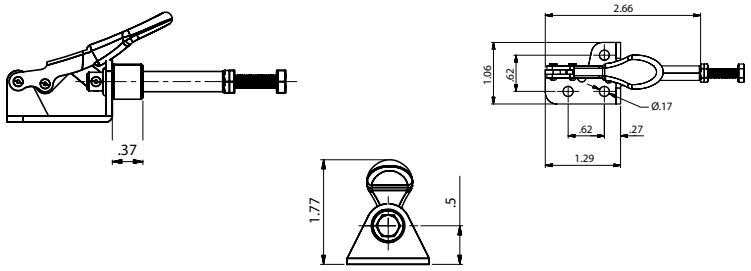
Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493808	198 lbf.	94°	76°	1

STAINLESS STEEL TOGGLE CLAMPS

SR5454 Series
Toggle Clamp Push Pull Stainless Steel

Specifications
- Material:
  Clamp: Stainless Steel
  Grip: PVC (Red)
  Spindle: Stainless Steel

Features
- Hand grip with cushioned rib profile for improved user comfort
- All body and linkage components on the clamps are manufactured from a high grade of stainless steel suitable for use within the food, pharmaceutical and chemical industries
- Pivot points are fitted with stainless steel rivets to maintain accuracy and provide a long service life

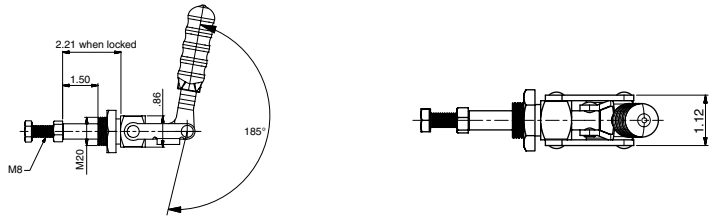


Item No.	Holding Force	Plunger Stroke	Handle Opens	Pack Qty.
493809	99 lbf.	.62	190°	1

Light duty with flat base

Item No.	Holding Force	Plunger Stroke	Handle Opens	Pack Qty.
493810	209 lbf.	.74	185°	1

Nose mounted with optional bracket

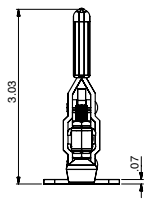


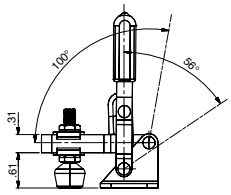
Item No.	Holding Force	Plunger Stroke	Handle Opens	Pack Qty.
493811	385 lbf.	1.49	185°	1

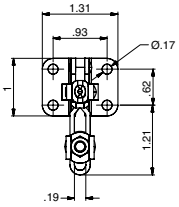
SR5446 Series
Toggle Clamp Vertical

Specifications
- Material:
  Clamp: Zinc Plated Steel
  Grip: PVC (Red)
  Spindle: Steel / Neoprene

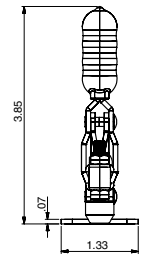
Features
- Hand grip with cushioned rib profile for improved user comfort
- All body and linkage components are zinc plated to resist corrosion
- Pivot points are fitted with hardened steel or stainless streel rivets to maintain accuracy and provide a long service life
- Clamps with adjustable spindles are manufactured with a formed end to the arm, which captivates the spindle should it become loose during operation
- Flanged washers are supplied with all slotted arm versions
- The arm and handle opening angle can be increased on some models by the removal of a positioning pin on the base of the clamp

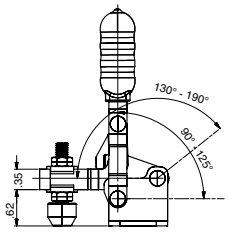


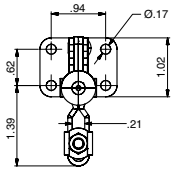




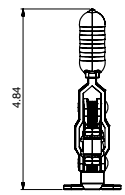
Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493778	110 lbf.	100°	56°	1

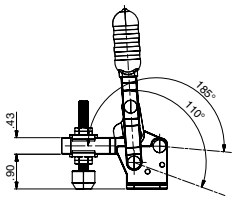


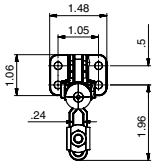




Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493779	156 lbf.	130° - 190°	90° - 125°	1







Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493780	330 lbf.	185°	110°	1

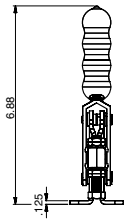
(Continued on next page)

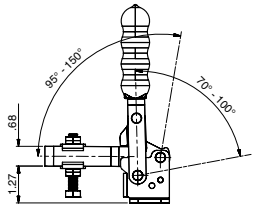
VERTICAL TOGGLE CLAMPS

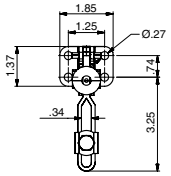
SR5446 Series
Toggle Clamp Vertical

Specifications
- Material:
  Clamp: Zinc Plated Steel
  Grip: PVC (Red)
  Spindle: Steel / Neoprene

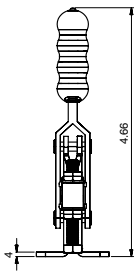
Features
- Hand grip with cushioned rib profile for improved user comfort
- All body and linkage components are zinc plated to resist corrosion
- Pivot points are fitted with hardened steel or stainless streel rivets to maintain accuracy and provide a long service life
- Clamps with adjustable spindles are manufactured with a formed end to the arm, which captivates the spindle should it become loose during operation
- Flanged washers are supplied with all slotted arm versions
- The arm and handle opening angle can be increased on some models by the removal of a positioning pin on the base of the clamp

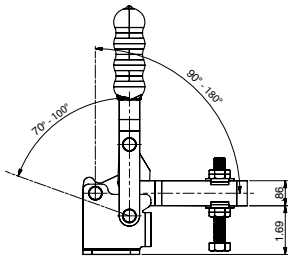


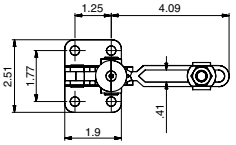




Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493781	551 lbf.	95° - 150°	71° - 100°	1

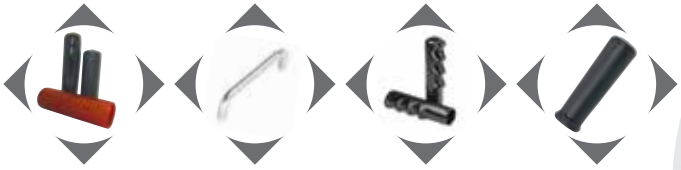






Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493782	771 lbf.	90° - 180°	70° - 100°	1

KNOBS, HANDLES & GRIPS



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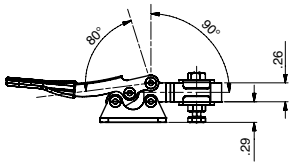
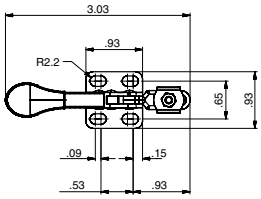
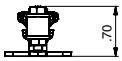
SR5447 Series
Toggle Clamp Horizontal

Specifications
- Material:
  Clamp: Zinc Plated Steel
  Grip: PVC (Red)
  Spindle: Steel / Neoprene

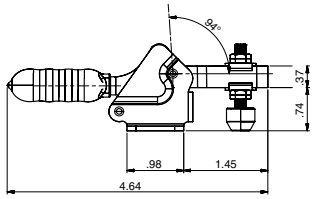
Features
- Hand grip with cushioned rib profile for improved user comfort
- All body and linkage components are zinc plated to resist corrosion
- Pivot points are fitted with hardened steel or stainless steel rivets to maintain accuracy
- Clamps with adjustable spindles are manufactured with a formed end to the arm, which captivates the spindle should it become loose during operation
- The handle and arm linkages are designed to provide a smooth continuous action when the handle is opened and closed

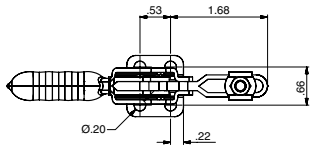


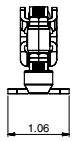




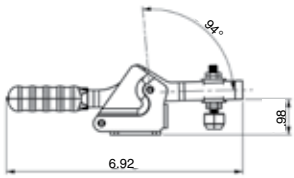
Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493783	83 lbf.	90°	80°	1

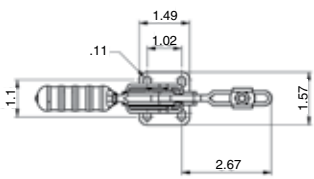






Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493784	143 lbf.	94°	76°	1





Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493785	198 lbf.	94°	76°	1

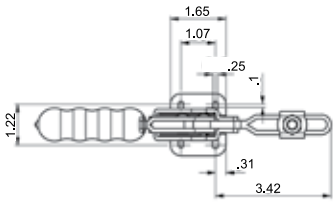
(Continued on next page)

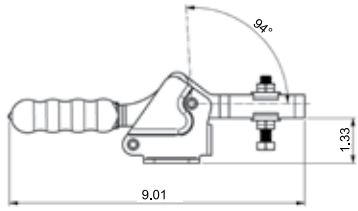
HORIZONTAL TOGGLE CLAMPS

SR5447 Series
Toggle Clamp Horizontal

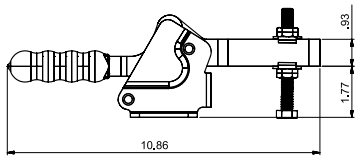
Specifications
- Material:
  Clamp: Zinc Plated Steel
  Grip: PVC (Red)
  Spindle: Steel / Neoprene

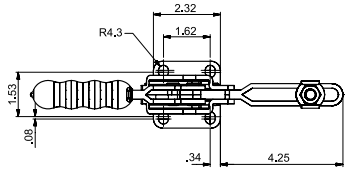
Features
- Hand grip with cushioned rib profile for improved user comfort
- All body and linkage components are zinc plated to resist corrosion
- Pivot points are fitted with hardened steel or stainless steel rivets to maintain accuracy
- Clamps with adjustable spindles are manufactured with a formed end to the arm, which captivates the spindle should it become loose during operation
- The handle and arm linkages are designed to provide a smooth continuous action when the handle is opened and closed

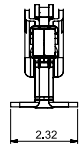




Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493786	517 lbf.	94°	76°	1







Item No.	Holding Force	Arm Opens	Handle Opens	Pack Qty.
493787	771 lbf.	90°	75°	1

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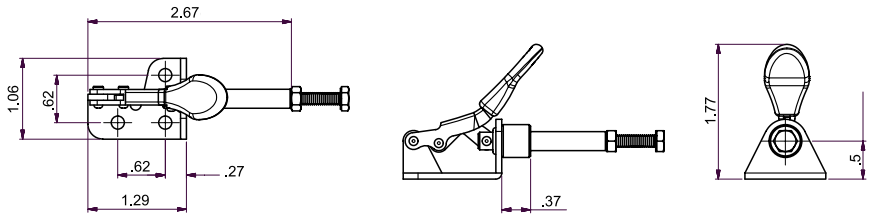
SR5448 Series
Toggle Clamp Push Pull

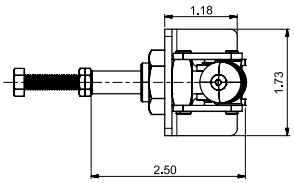
Specifications
- Material:
  Clamp: Zinc Plated Steel
  Grip: PVC (Red)
  Spindle: Steel

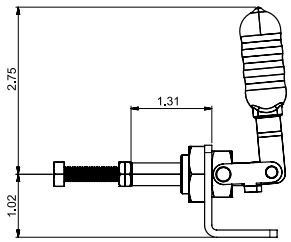
Features
- Hand grip with cushioned rib profile for improved user comfort
- All body and linkage components on the light duty range are zinc plated to resist corrosion
- The heavy-duty range has ductile cast iron bases for strength and rigidity
- A close tolerance is maintained between the base and plunger to allow use for pin location and gauging as well as clamping applications
- Pivot points are fitted with hardened steel or stainless steel rivets to maintain accuracy and provide a long service life



Item No.	Holding Force	Plunger Stroke	Handle Opens	Pack Qty.
493788*	99 lbf.	.62	190°	1

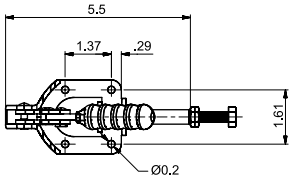
***Nylon spindle**
Light duty with flat base

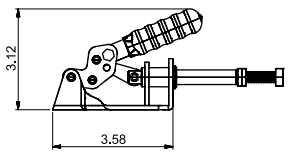


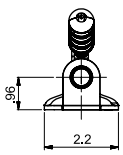


Item No.	Holding Force	Plunger Stroke	Handle Opens	Pack Qty.
493789	209 lbf.	.74	185°	1

Mounting bracket included







Item No.	Holding Force	Plunger Stroke	Handle Opens	Pack Qty.
493790	299 lbf.	1.25	180°	1

Light duty with flat base

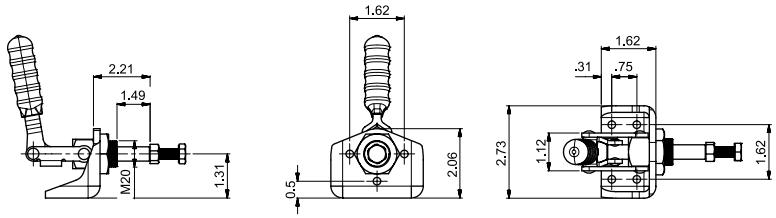
(Continued on next page)

PUSH PULL TOGGLE CLAMPS

SR5448 Series
Toggle Clamp Push Pull

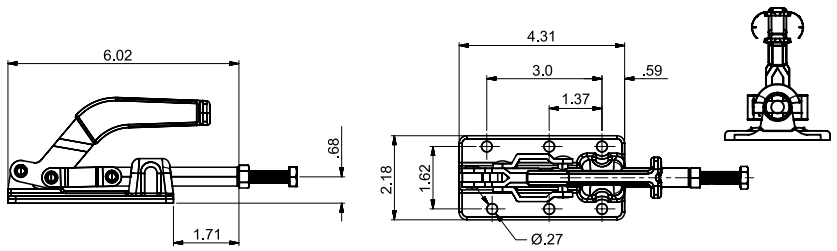
Specifications
- Material:
  Clamp: Zinc Plated Steel
  Grip: PVC (Red)
  Spindle: Steel

Features
- Hand grip with cushioned rib profile for improved user comfort
- All body and linkage components on the light duty range are zinc plated to resist corrosion
- The heavy-duty range has ductile cast iron bases for strength and rigidity
- A close tolerance is maintained between the base and plunger to allow use for pin location and gauging as well as clamping applications
- Pivot points are fitted with hardened steel or stainless steel rivets to maintain accuracy and provide a long service life



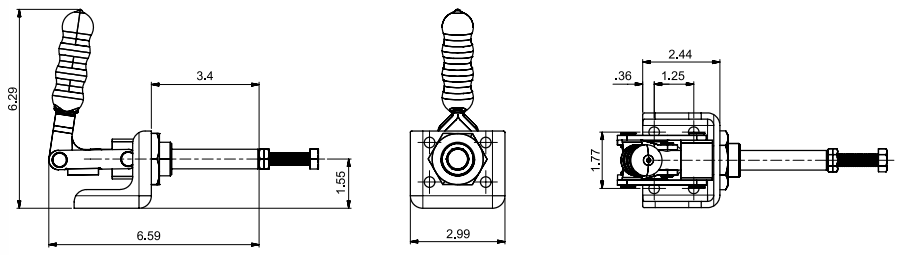
Item No.	Holding Force	Plunger Stroke	Handle Opens	Pack Qty.
493791	385 lbf.	1.49	185°	1

Mounting bracket included



Item No.	Holding Force	Plunger Stroke	Handle Opens	Pack Qty.
493792	700 lbf.	1.62	180°	1

Heavy duty flat base 45° handle



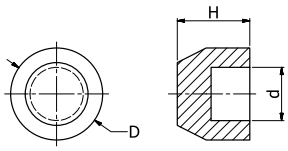
Item No.	Holding Force	Plunger Stroke	Handle Opens	Pack Qty.
493793	826 lbf.	2.63	185°	1

Mounting bracket included

SR5455 Series
Toggle Clamp Caps

Specifications:
• Material: Neoprene

Features
• Replacement pad designed to avoid marking fragile or polished surfaces

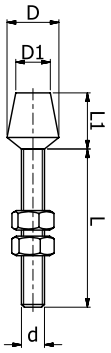


Part Number	Dimensions d	D	H	Compatible with	Std Pack Qty
493812	.21	.43	.33	493788, 493803, 493806, 493809	1
493813	.25	.49	.41	493779, 493784, 493804, 493807	1
493814	.33	.61	.47	493780, 493785, 493789, 493805, 493808	1
493815	.45	.74	.59	493780, 493785, 493804, 493807, 493810	1

SR5456 Series
Toggle Clamp Tipped Spindle

Specifications
• Material: Neoprene/Steel

Features
• Designed to avoid marking fragile or polished surfaces

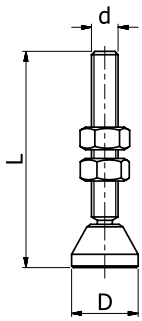


Part Number	Dimensions d	L	L1	D	D1	Compatible with	Std Pack Qty
493816	M4	1.25	.39	.47	.31	493788	1
493817	M5	.78	.47	.55	.43	493779, 493784	1
493818	M6	1.45	.51	.62	.43	493780, 493785, 493789	1
493819	M8	2.16	.78	.66	.47	493781, 493786, 493790, 493791, 493792	1

SR5457 Series
Toggle Clamp Swivel Foot Spindle

• Material: Steel

Features
• For use where a large area needs to be clamped or the clamping force needs to be spread over a larger area than just the spindle and surface area



Part Number	Dimensions d	D	L	Compatible with	Std Pack Qty
493820	M5	.47	1.57	493779, 493784	1
493821	M6	.47	1.96	493780, 493785, 493789	1
493822	M8	.78	2.55	493781, 493786, 493790, 493791, 493792	1

TOGGLE CLAMP LATCHES

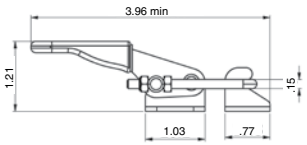
SR5450 Series
Toggle Clamp Latch

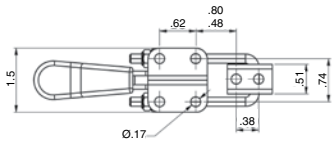
Specifications

- Material:
  Clamp: Zinc Plated Steel
  Grip: PVC (Red)
  Spindle: Steel

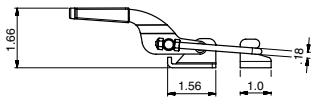
Features

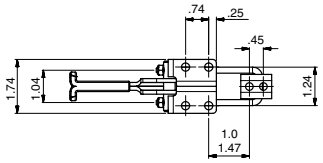
- Hand grip with cushioned rib profile for improved user comfort
- All body and linkage components on the light duty range are zinc plated to resist corrosion
- Pivot points are fitted with hardened steel or stainless steel rivets to maintain accuracy and provide a long service life



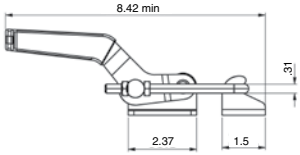


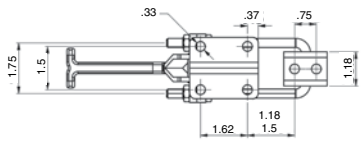
Item No.	Holding Force	Pack Qty.
493796	359 lbf.	1





Item No.	Holding Force	Pack Qty.
493797	700 lbf.	1



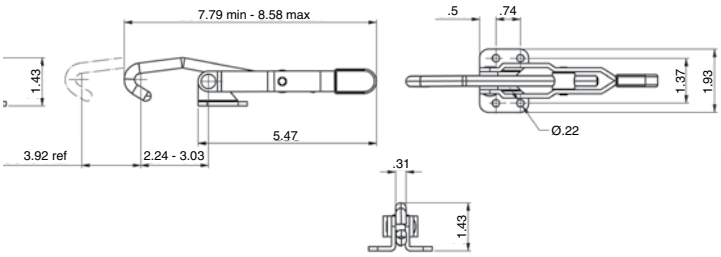


Item No.	Holding Force	Pack Qty.
493798	1983 lbf.	1

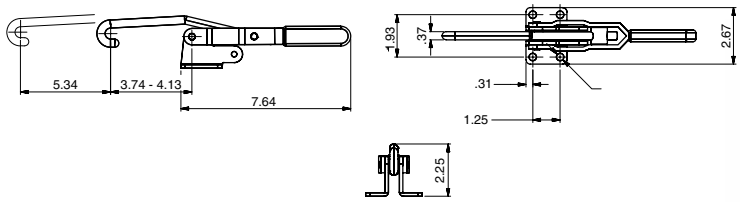
SR5449 Series
Toggle Clamp Hook

Specifications
• Material:
Clamp: Zinc Plated Steel
Grip: PVC (Red)
Spindle: Steel

Features
• Hand grip with cushioned rib profile for improved user comfort
• All body and linkage components on the light duty range are zinc plated to resist corrosion
• Pivot points are fitted with hardened steel or stainless steel rivets to maintain accuracy and provide a long service life



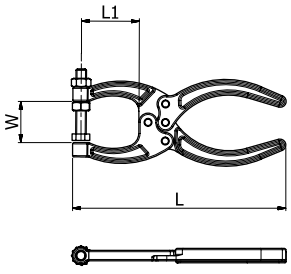
Item No.	Holding Force	Arm Opens	Pack Qty.
493794	375 lbf.	3.92	1



Item No.	Holding Force	Arm Opens	Pack Qty.
493795	749 lbf.	5.34	1

SR5451 Series
Toggle Clamp Plier

Specifications
• Material:
Clamp: Zinc Plated Steel
Spindle: Steel



Features
• Pivoting jaw to allow a deep throat depth to open and close easily when clamping awkward profiles
• The jaw spindle can be pre-set to achieve the optimum clamping distance and pressure
• Pre-setting is most useful for repetitious clamping applications
• Zinc plated finish to resist corrosion, profiled handles for operator comfort
• Spindles are supplied with a copper plated surface finish to resist weld spatter

Item No. 493799

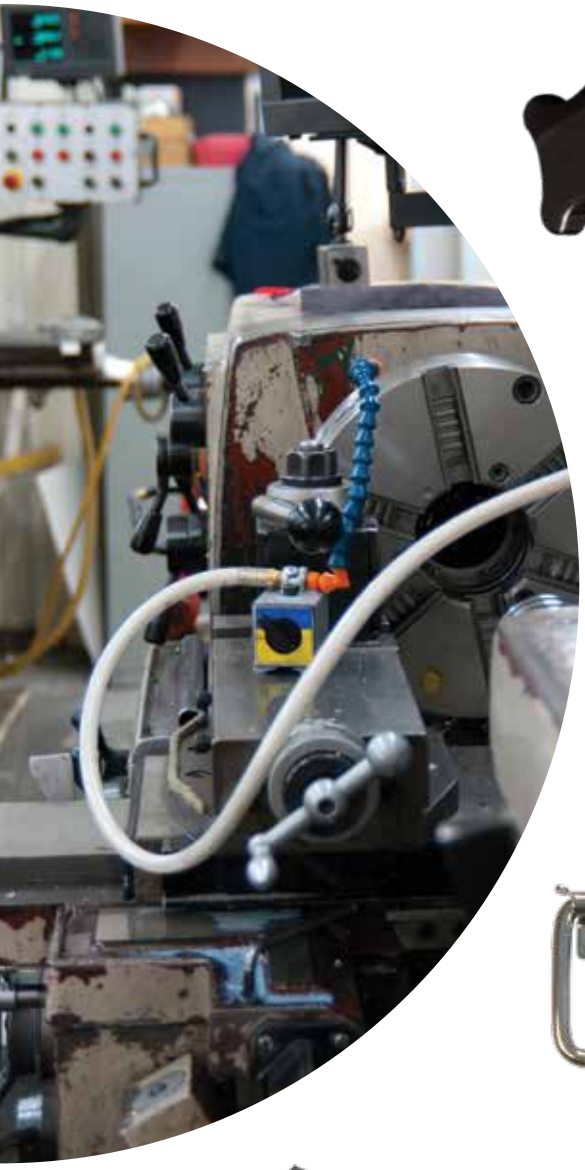
Item No. 493800

Item No. 493801

Item No. 493802

Item No.	Holding Force	L	L1	W	Thread Size	Quick Release	Pack Qty.
493799	198 lbf.	5.125	1.125	1.0 to 2.0	1/40-20	—	1
493800	352 lbf.	6.5	1.750	1.25 to 2.56	5/16-18	—	1
493801	705 lbf.	8.5	2.750	1.75 to 3.62	3/8-16	Yes	1
493802	705 lbf.	8.5	2.750	3.0 to 4.875	3/8-16	Yes	1

GRIPS, HANDLES & KNOBS



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LOBED KNOBS ..... 336 - 338

KNURLED KNOBS ..... 339 - 340

PULL HANDLES ..... 341 - 347

COVER HANDLES ..... 342 - 345

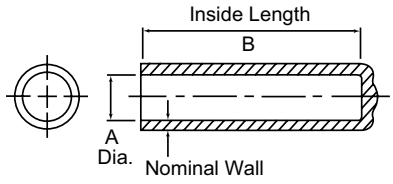
T-HANDLES 343

ADJUSTABLE HANDLES 343

DRAWER HANDLES ..... 343 - 345

GRIPS

VGRD Series
Round Grips

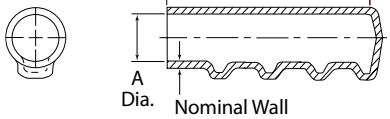


Specifications:
- Material: PVC
- Color: See Table

Features:
- Flexible material can stretch onto slightly larger dimensions for a snug fit without tearing, splitting or shredding
- Special order colors and materials available

Item No.	Material & Color	A		B		Bulk Pack Qty
		in	mm	in	mm	
VGRD07504000A	Black PVC	0.750	19.1	4.000	101.6	500
VGRD07504000B	Textured Black PVC	0.750	19.1	4.000	101.6	500
VGRD07505000A	Black PVC	0.750	19.1	5.000	127.0	250
VGRD07505000B	Textured Black PVC	0.750	19.1	5.000	127.0	250
VGRD07505000D	Red PVC	0.750	19.1	5.000	127.0	250
VGRD08124500A	Textured Black PVC	0.812	20.6	4.500	114.3	400
VGRD08434500B	Textured Black PVC	0.843	21.4	4.500	114.3	400
VGRD08754000B	Textured Black PVC	0.875	22.2	4.000	101.6	400
VGRD08755000A	Black PVC	0.875	22.2	5.000	127.0	300
VGRD08755000B	Textured Black PVC	0.875	22.2	5.000	127.0	150
VGRD08755000C	Red PVC	0.875	22.2	5.000	127.0	300
VGRD09374000A	Black PVC	0.937	24.7	4.000	101.6	300
VGRD09374000B	Textured Black PVC	0.937	24.7	4.000	101.6	300
VGRD10004000A	Black PVC	1.000	25.4	4.000	101.6	400
VGRD10004500A	Black PVC	1.000	25.4	4.500	114.3	300
VGRD10004500B	Textured Black PVC	1.000	25.4	4.500	114.3	350
VGRD10005000A	Black PVC	1.000	25.4	5.000	127.0	250
VGRD10005000B	Textured Black PVC	1.000	25.4	5.000	127.0	300
VGRD10005000C	Red PVC	1.000	25.4	5.000	127.0	300
VGRD10624000A	Black PVC	1.062	27.0	4.000	101.6	300
VGRD10624500B	Textured Black PVC	1.062	27.0	4.500	114.3	300
VGRD11254000B	Textured Black PVC	1.125	28.6	4.000	101.6	250
VGRD11255000A	Black PVC	1.125	28.6	5.000	127.0	200
VGRD11255000B	Textured Black PVC	1.125	28.6	5.000	124.0	200
VGRD12504500A	Black PVC	1.250	31.8	4.500	114.3	250
VGRD12504500C	Red PVC	1.250	31.8	4.500	114.3	200
VGRD12505000B	Textured Black PVC	1.250	31.8	5.000	127.0	200
VGRD15004000A	Black PVC	1.500	38.1	4.000	101.6	200
VGRD15004500B	Textured Black PVC	1.500	38.1	4.500	114.3	200
VGRD17504000A	Black PVC	1.750	44.4	4.000	101.6	150

VGN Series
Finger Grasp Grips



Specifications:
- Material: PVC
- Color: Black

Features:
- Ideal for applications requiring a uniform finger grasp
- Flexible material can stretch onto slightly larger dimensions for a snug fit without tearing, splitting or shredding
- Special order colors and textured materials available

Item No.	A		B		Bulk Pack Qty
	in	mm	in	mm	
VGN10004000A	1.000	25.4	4.000	101.6	350
VGN07504500A	0.750	19.1	4.500	114.3	200
VGN10004500A	1.000	25.4	4.500	114.3	300
VGN08755000A	0.875	22.2	5.000	139.7	350

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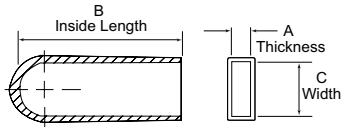
VG Series
Flat Rectangular Grips



Specifications:
- Material: PVC
- Color: Black

Features:
- Ideal for capping bar stock for general protection
- Flexible material can stretch onto slightly larger dimensions for a snug fit without tearing, splitting or shredding
- Special order colors and textured materials available

Item No.	A		C		B		Bulk Pack Qty
	in	mm	in	mm	in	mm	
VG12505004375A	0.125	3.2	0.500	12.7	4.375	111.1	1500
VG12507504375A	0.125	3.2	0.750	19.1	4.375	111.1	600
VG12510004375A	0.125	3.2	1.000	25.4	4.375	111.1	250
VG25007504250A	0.250	6.4	0.750	19.1	4.250	108.0	800
VG25010004375B	0.250	6.4	1.000	25.4	4.375	111.1	400
VG25012504500A	0.250	6.4	1.250	31.8	4.500	114.3	250

GRIP Series
Round or Rectangle Grips

Grip replacements for worn grips on hand trucks, punch presses, tools and other equipment. Grips are molded of strong rigid black vinyl. They fit standard bar sizes and have a ¼" hole opposite the open end, except where noted otherwise. All grips for 1" bar diameter will work with ¾" I.P.S. pipe size.

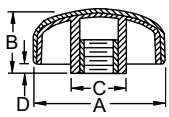
Item No.	Style	Length	For Bar	Bulk Pack Qty
		in	Ø in	
GRIP1200A	A	4 - 13/16	3/4	50
GRIP1300A	A	4 - 3/4	7/8	50
GRIP0500A	B	3 - 7/8	7/8	50
GRIP0600A	B	4 - 5/8	7/8	50
GRIP0300A	C	4 - 1/4	7/8	50
GRIP0400A	C	4 - 1/2	1	50
GRIP0200A	D	5 - 1/16	7/8	50
GRIP0100A	D	5 - 1/16	1	50
GRIP0700A	E	4 - 9/16	7/8	50
GRIP0800A	E	4 - 9/16	1	50
GRIP1000A	F	4 - 5/16	1	50
GRIP0900A	F	4 - 5/16	11/4	50

HASSLE-FREE SERVICE

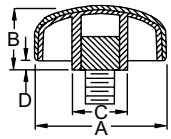
Our teams of knowledgeable, dedicated employees are commited to providing a hassle-free experience from sampling and quoting through delivery. Call us today!

LOBED KNOBS

KTL Series
Soft Touch 3-Lobed Knobs



Female



Male

Specifications:
- Knob Material: TPE (Rubber) Overlay with Polypropylene Glass-Filled Base
- Insert Material: Zinc Plated Brass Insert or Zinc Plated Steel Stud
- Color: Black

Features:
- 3-Lobed Soft-Touch Knobs provide maximum grip and comfort
- TPE overlay provides impact resistance
- Glass-filled Polypropylene base material provides stability and strength

Female Knob

Item No.	A		Thread Size	B		C		D		Bulk Pack Qty
	in	mm		in	mm	in	mm	in	mm	
KTL1000A	1.180	29.9	1/4 - 20	0.650	16.5	0.500	12.7	0.150	3.8	100
KTL1100A	1.770	44.9	1/4 - 20	0.890	22.6	0.750	19.0	0.120	3.0	50
KTL1200A	2.170	55.1	1/2 - 13	1.080	27.4	0.810	20.5	0.150	3.8	50

Male Knob

Item No.	A		Thread Size	Stud Length	B		C		D		Bulk Pack Qty
	in	mm			in	mm	in	mm	in	mm	
KTL1300A	1.180	29.9	10 - 32	0.500	0.65	16.5	0.500	12.7	0.150	3.8	100
KTL1400A	1.180	29.9	1/4 - 20	0.500	0.65	16.5	0.500	12.7	0.150	3.8	100
KTL1500A	1.770	44.9	5/16 - 18	1.000	0.89	22.6	0.750	19.0	0.120	3.0	50
KTL1600A	1.770	44.9	3/8 - 16	1.000	0.89	22.6	0.750	19.0	0.120	3.0	50

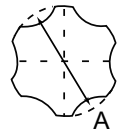
KNS Series
6-Lobed Knobs

Specifications:
- Knob Material: Polypropylene
- Insert Material: Zinc Plated Steel
- Color: Black

Features:
- 6-Lobed Knobs provide maximum grip and comfort
- Economical design for light-duty securing and clamping applications
- Resistant to water and solvents

Female

Male



Female Knobs

Item No.	A		Thread Size	Bulk Pack Qty
	in	mm		
KNS1400A	1.575	40.0	5/16 - 18	250
KNS1500A	2.362	60.0	5/16 - 18	250

Male Knobs

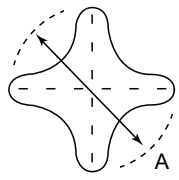
Item No.	A		Thread Size	Stud Length		Bulk Pack Qty
	in	mm		in	mm	
KNS3000A	1.575	40.0	1/4 - 20	0.750	19.1	250
KNS3100A	1.575	40.0	1/4 - 20	1.375	34.9	250
KNS3200A	1.575	40.0	5/16 - 18	0.750	19.1	250
KNS3300A	1.575	40.0	5/16 - 18	0.500	12.7	250
KNS3400A	1.575	40.0	5/16 - 18	1.000	25.4	250
KNS3500A	1.575	40.0	5/16 - 18	1.500	38.1	250
KNS3600A	2.362	60.0	5/16 - 18	0.750	19.1	250
KNS3700A	2.362	60.0	5/16 - 18	1.500	38.1	250

KSP Series
4-Lobed Knobs

Style 1

Style 2

Style 3



Specifications:
- Knob Material: Phenolic
- Insert Material: Aluminum or Brass Insert or Zinc Plated Steel Stud
- Color: Black

Features:
- 4-Lobed Knobs provide maximum grip and comfort
- High-gloss finish
- High impact resistance
- Resistant to oils, fuels and greases
- Excellent thermal and electrical resistance

Male Knobs

Item No.	A		Thread Size	Stud Length		Style	Bulk Pack Qty.
	in	mm		in	mm		
KSP2000A	1.969	50.0	5/16 - 18	0.984	25.0	1	100
KSP2100A	2.362	60.0	3/8 - 16	1.181	30.0	1	100
KSP2200A	3.150	80.0	1/2 - 13	1.575	40.0	1	100

Female Knobs

Item No.	A		Thread Size	Style	Type	Thread Material	Bulk Pack Qty.
	in	mm					
KSP1000A	1.969	50.0	5/16 - 18	2	Blind	Aluminum	100
KSP1100A	1.969	50.0	5/16 - 18	3	Thru Hole	Brass	100
KSP1200A	2.362	60.0	3/8 - 16	2	Blind	Aluminum	100
KSP1300A	2.362	60.0	3/8 - 16	3	Thru Hole	Brass	100
KSP1400A	3.150	80.0	1/2 - 13	2	Blind	Aluminum	100
KSP1500A	3.150	80.0	1/2 - 13	3	Thru Hole	Brass	100

LOBED KNOBS

KNS Series
Multi-Lobe Knobs

Specifications:
- Knob Material: Polypropylene
- Insert Material: Zinc Plated Steel
- Color: Black

Features:
- Available in two distinct styles
- Economical design for light-duty securing and clamping applications
- Resistant to water and solvents

Style 1 Female

Style 2 Female

Style 1
Triangular

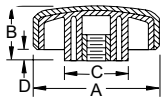
Style 2
Star

Item No.	A in	A mm	Thread Size	Style	Bulk Pack Qty
KNS1000A	1.575	40.0	5/16 - 18	1	250
KNS1100A	2.362	60.0	5/16 - 18	1	250
KNS1200A	1.575	40.0	1/4 - 20	2	250
KNS1300A	2.362	60.0	5/16 - 18	2	250

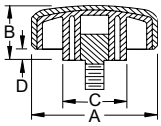
KDL Series
Soft Touch 4-Lobed Knobs

Specifications:
- Knob Material: TPE (Rubber) Overlay with Polypropylene Glass-Filled Base
- Insert Material: Zinc Plated Brass Insert or Zinc Plated Steel Stud
- Color: Black

Features:
- 4-Lobed Soft-Touch Knobs provide maximum grip and comfort



Female



Male

Female Knob

Item No.	A in	A mm	Thread Size	B in	B mm	C in	C mm	D in	D mm	Bulk Pack Qty
KDL1000A	1.400	35.5	1/4 - 20	0.680	17.2	0.560	14.2	0.180	4.5	50
KDL1100A	1.750	44.4	10 - 32	0.750	19.0	0.680	17.2	0.120	3.0	50
KDL1200A	2.480	62.9	3/8 - 16	1.090	27.6	1.250	31.7	0.180	4.5	25
KDL1300A	2.480	62.9	1/2 - 13	1.090	27.6	1.250	31.7	0.180	4.5	25
KDL1400A	3.000	76.2	5/16 - 18	1.300	33.0	1.500	38.1	0.220	5.5	25
KDL1500A	3.000	76.2	1/2 - 13	1.300	33.0	1.500	38.1	0.220	5.5	25

Male Knob

Item No.	A in	A mm	Thread Size	Stud Length	B in	B mm	C in	C mm	D in	D mm	Bulk Pack Qty
KDL1600A	1.400	35.5	1/4 - 20	0.500	0.680	17.2	0.560	14.2	0.180	4.5	50
KDL1700A	1.750	44.4	1/4 - 20	0.500	0.750	19.0	0.680	17.2	0.120	3.0	50
KDL1800A	1.750	44.4	1/4 - 20	1.000	0.750	19.0	0.680	17.2	0.120	3.0	50
KDL1900A	1.990	50.5	1/4 - 20	0.500	0.860	21.8	0.910	23.1	0.160	4.0	50
KDL2000A	1.990	50.5	5/16 - 18	1.000	0.860	21.8	0.910	23.1	0.160	4.0	50
KDL2100A	1.990	50.5	3/8 - 16	1.000	0.860	21.8	0.910	23.1	0.160	4.0	50

KNS Series
Multi-Lobe Knobs

Specifications:
- Knob Material: Polypropylene
- Insert Material: Zinc Plated Steel Stud
- Color: Black

Features:
- Available in two distinct styles
- Economical design for light-duty securing and clamping applications
- Resistant to water and solvents

Style 1

Style 2

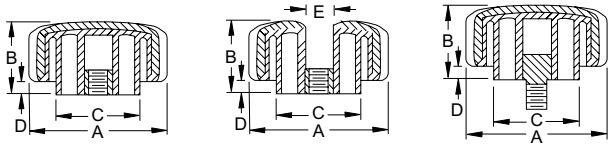
Style 1
Triangular

Style 2
Star

Item No.	A in	A mm	Thread Size	Stud Length in	Stud Length mm	Style	Bulk Pack Qty
KNS1600A	1.575	40.0	1/4 - 20	1.375	34.9	1	250
KNS1700A	1.575	40.0	5/16 - 18	0.500	12.7	1	250
KNS1800A	1.575	40.0	5/16 - 18	0.750	19.1	1	250
KNS1900A	1.575	40.0	5/16 - 18	1.375	34.9	1	250
KNS2000A	2.362	60.0	5/16 - 18	0.500	12.7	1	250
KNS2100A	2.362	60.0	5/16 - 18	0.750	19.1	1	250
KNS2200A	1.575	40.0	1/4 - 20	0.750	19.1	2	250
KNS2300A	1.575	40.0	1/4 - 20	1.375	34.9	2	250
KNS2400A	1.575	40.0	5/16 - 18	0.500	12.7	2	250
KNS2500A	1.575	40.0	5/16 - 18	0.750	19.1	2	250
KNS2600A	1.575	40.0	5/16 - 18	1.000	25.4	2	250
KNS2700A	1.575	40.0	5/16 - 18	1.375	34.9	2	250
KNS2800A	2.362	60.0	5/16 - 18	0.750	19.1	2	250
KNS2900A	2.362	60.0	5/16 - 18	1.500	38.1	2	250

LOBED KNOBS

KFL Series
Soft Touch 5-Lobed Knobs



Specifications:
- Knob Material: TPE (Rubber) Overlay with Polypropylene Glass-Filled Base
- Insert Material: Zinc Plated Brass Insert or Zinc Plated Steel Stud
- Color: Black

Features:
- 5-Lobed Soft-Touch Knobs provide maximum grip and comfort
- TPE overlay provides impact resistance
- Glass-filled Polypropylene base material provides stability and strength

Female Knob

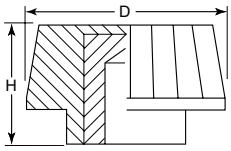
Item No.	A		Thread Size	Hole Type	Style	B		C		D		E		Bulk Pack Qty
	in	mm				in	mm	in	mm	in	mm	in	mm	
KFL1000A	1.520	38.6	1/4 - 20	Blind	1	1.090	27.6	0.690	17.5	0.180	4.5	—	—	50
KFL2000A	1.520	38.6	1/4 - 20	Through	2	1.090	27.6	0.690	17.5	0.180	4.5	0.400	10.1	50
KFL1100A	1.520	38.6	5/16 - 18	Blind	1	1.090	27.6	0.690	17.5	0.180	4.5	—	—	50
KFL2100A	1.520	38.6	5/16 - 18	Through	2	1.090	27.6	0.690	17.5	0.180	4.5	0.400	10.1	50
KFL1200A	1.520	38.6	3/8 - 16	Blind	1	1.090	27.6	0.690	17.5	0.180	4.5	—	—	50
KFL2200A	1.520	38.6	3/8 - 16	Through	2	1.090	27.6	0.690	17.5	0.180	4.5	0.400	10.1	50
KFL1300A	1.900	48.2	1/4 - 20	Blind	1	1.090	27.6	0.930	23.6	0.170	4.3	—	—	50
KFL2300A	1.900	48.2	1/4 - 20	Through	2	1.090	27.6	0.930	23.6	0.170	4.3	0.540	13.7	50
KFL1400A	1.900	48.2	5/16 - 18	Blind	1	1.090	27.6	0.930	23.6	0.170	4.3	—	—	50
KFL2400A	1.900	48.2	5/16 - 18	Through	2	1.090	27.6	0.930	23.6	0.170	4.3	0.540	13.7	50
KFL1500A	1.900	48.2	3/8 - 16	Blind	1	1.090	27.6	0.930	23.6	0.170	4.3	—	—	50
KFL2500A	1.900	48.2	3/8 - 16	Through	2	1.090	27.6	0.930	23.6	0.170	4.3	0.540	13.7	50
KFL1600A	2.260	57.4	1/4 - 20	Blind	1	1.090	27.6	1.250	31.7	0.160	4.0	—	—	25
KFL2600A	2.260	57.4	5/16 - 18	Through	2	1.090	27.6	1.250	31.7	0.160	4.0	0.540	13.7	25
KFL1700A	2.260	57.4	5/16 - 18	Blind	1	1.090	27.6	1.250	31.7	0.160	4.0	—	—	25
KFL1800A	2.260	57.4	3/8 - 16	Blind	1	1.090	27.6	1.250	31.7	0.160	4.0	—	—	25
KFL1900A	2.260	57.4	1/2 - 13	Blind	1	1.090	27.6	1.250	31.7	0.160	4.0	—	—	25
KFL2700A	2.260	57.4	1/2 - 13	Through	2	1.090	27.6	1.250	31.7	0.160	4.0	0.540	13.7	25

Male Knob

Item No.	A		Thread Size	Stud Length	Style	B		C		D		Bulk Pack Qty
	in	mm				in	mm	in	mm	in	mm	
KFL2900A	1.520	38.6	1/4 - 20	0.500	3	1.090	27.6	0.690	17.5	0.180	4.5	50
KFL3000A	1.520	38.6	1/4 - 20	0.750	3	1.090	27.6	0.690	17.5	0.180	4.5	50
KFL3100A	1.520	38.6	1/4 - 20	1.000	3	1.090	27.6	0.690	17.5	0.180	4.5	50
KFL3200A	1.520	38.6	5/16 - 18	1.000	3	1.090	27.6	0.690	17.5	0.180	4.5	50
KFL3300A	1.520	38.6	5/16 - 18	1.500	3	1.090	27.6	0.690	17.5	0.180	4.5	50
KFL3400A	1.520	38.6	3/8 - 16	1.000	3	1.090	27.6	0.690	17.5	0.180	4.5	50
KFL3500A	1.520	38.6	3/8 - 16	1.500	3	1.090	27.6	0.690	17.5	0.180	4.5	50
KFL3600A	1.900	48.2	1/4 - 20	0.500	3	1.090	27.6	0.930	23.6	0.170	4.3	50
KFL3700A	1.900	48.2	1/4 - 20	1.000	3	1.090	27.6	0.930	23.6	0.170	4.3	50
KFL3800A	1.900	48.2	5/16 - 18	1.000	3	1.090	27.6	0.930	23.6	0.170	4.3	50
KFL3900A	1.900	48.2	5/16 - 18	1.500	3	1.090	27.6	0.930	23.6	0.170	4.3	50
KFL4000A	1.900	48.2	3/8 - 16	1.500	3	1.090	27.6	0.930	23.6	0.170	4.3	50
KFL4100A	2.260	57.4	1/4 - 20	1.250	3	1.090	27.6	0.930	23.6	0.170	4.3	25
KFL4200A	2.260	57.4	5/16 - 18	1.000	3	1.090	27.6	0.930	23.6	0.170	4.3	25
KFL4300A	2.260	57.4	3/8 - 16	1.750	3	1.090	27.6	0.930	23.6	0.170	4.3	25

KNURLED KNOBS

KGR Series
Grip Knobs

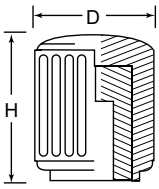


Specifications:
- Knob Material: Nylon 6
- Insert Material: Alumium Inserts and Plated Steel Stud
- Color: Black

Features:
- Knurled matte finish for easy gripping
- High impact resistant material
- Resistant to most oils, fuels and greases

Item No.	Style	D		Thread Size	Stud Length	H		Bulk Pack Qty
		in	mm			in	mm	
KGR1000A	Female	0.591	15.0	10 - 24	—	0.433	11.0	500
KGR1100A	Female	0.591	15.0	1/4 - 20	—	0.433	11.0	500
KGR1200A	Female	0.866	22.0	1/4 - 20	—	0.630	16.0	500
KGR1300A	Female	0.866	22.0	5/16 - 18	—	0.630	16.0	500
KGR2000A	Male	0.591	15.0	1 - 24	0.394	0.433	11.0	500
KGR2100A	Male	0.591	15.0	1/4 - 20	0.394	0.433	11.0	500
KGR2200A	Male	0.866	22.0	1/4 - 20	0.590	0.630	16.0	500
KGR2300A	Male	0.866	22.0	5/16 - 18	0.590	0.630	16.0	500

KPK Series
Knurled Grip Knobs



Specifications:
- Knob Material: Phenolic
- Insert Material: Zinc Plated Steel Steel Stud or Brass Insert
- Color: Black

Features:
- Knurled matte finish provides secure grip
- High impact resistance
- Resistant to oils, fuels and greases
- Excellent thermal and electrical resistance

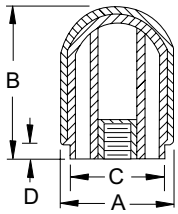
Male Knobs

Item No.	D		H		Thread Size	Stud Length		Bulk Pack Qty
	in	mm	in	mm		in	mm	
KPK1000A	0.551	14.0	0.630	16.0	10 - 32	0.394	10.0	500
KPK1100A	0.551	14.0	0.630	16.0	10 - 24	0.394	10.0	500
KPK1200A	0.787	20.0	0.866	22.0	10 - 24	0.591	15.0	500
KPK1300A	0.787	20.0	0.866	22.0	1/4 - 20	0.591	15.0	500

Female Knobs

Item No.	D		H		Thread Size	Bulk Pack Qty
	in	mm	in	mm		
KPK1400A	0.551	14.0	0.630	16.0	10 - 32	500
KPK1500A	0.551	14.0	0.630	16.0	10 - 24	500
KPK1600A	0.787	20.0	0.866	22.0	10 - 24	500
KPK1700A	0.787	20.0	0.866	22.0	1/4 - 20	500

KHP Series
High Profile Soft Touch Knobs



Specifications:
- Knob Material: TPE (Rubber) Overlay with Polypropylene Glass-Filled Base
- Insert Material: Zinc Plated Brass Insert or Zinc Plated Steel Stud
- Color: Black

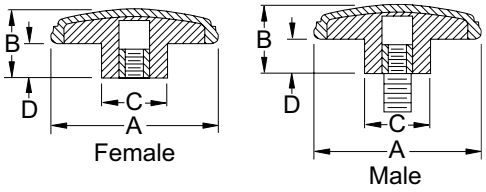
Features:
- High Profile Soft-Touch Knobs provide maximum grip and comfort
- TPE overlay provides impact resistance
- Glass-filled Polypropylene base material provides stability and strength

Item No.	A		Thread Size	B		C		D		Bulk Pack Qty
	in	mm		in	mm	in	mm	in	mm	
KHP1000A	1.680	42.6	3/8 - 16	2.180	55.3	1.340	34.0	0.200	5.0	50

KNURLED KNOBS

KLP Series
Low Profile Soft Touch Knobs

Specifications:
- Knob Material: TPE Rubber
- Insert Material: Zinc Plated Steel Stud or Zinc Plated Brass Insert
- Color: Black



Features:
- Low Profile Soft-Touch Knobs provide maximum grip and comfort
- Designed with knurled perimeter for secure grip
- TPE overlay provides impact resistance
- Glass-filled Polypropylene base material provides stability and strength

Female Knob

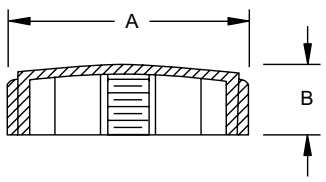
Item No.	A			B		C		D		Bulk Pack Qty.
	In	mm	Thread Size	In	mm	In	mm	In	mm	
KLP1000A	0.980	24.8	1/4 - 20	0.680	17.2	0.540	13.7	0.420	10.6	100
KLP1100A	1.570	39.8	1/4 - 20	0.660	16.7	0.750	19.0	0.320	8.1	75
KLP1200A	1.570	39.8	3/8 - 16	0.660	16.7	0.750	19.0	0.320	8.1	75
KLP1300A	1.970	50.0	3/8 - 16	0.650	16.5	0.770	19.5	0.210	5.3	50

Male Knob

Item No.	A			B		C		D		Bulk Pack Qty
	In	mm	Thread Size Stud Length	In	mm	In	mm	In	mm	
KLP1400A	0.980	24.8	10 - 32 0.500	0.680	17.2	0.540	13.7	0.420	10.6	100
KLP1500A	1.570	39.8	1/4 - 20 1.000	0.660	16.7	0.750	19.0	0.320	8.1	75
KLP1600A	1.970	50.0	1/4 - 20 1.250	0.650	16.5	0.770	19.5	0.210	5.3	50
KLP1700A	1.970	50.0	3/8 - 16 1.750	0.650	16.5	0.770	19.5	0.210	5.3	50

KNG Series
Low Profile Soft Touch Knobs

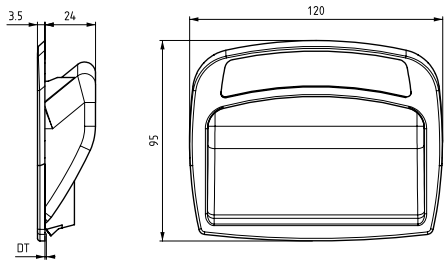
Specifications:
- Knob Material: TPE (Rubber) Overlay
- Polypropylene Glass-Filled Base Material
- Insert Material: Zinc Plated Brass Insert or Zinc Plated Steel Stud
- Color: Black



Features:
- Low Profile Soft-Touch Knobs provide maximum grip and comfort
- Designed with notched or fluted perimeter for secure grip

Item No.	A			B		Bulk Pack Qty
	in	mm	Thread Size	in	mm	
KNG1000A	2.260	57.4	1/4 - 20	0.670	17.0	50

Snap-In Cover Pull Handle

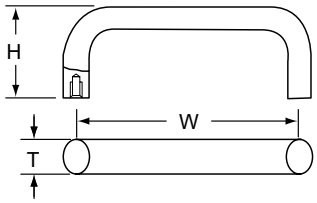


Specifications
- Material: ABS
- Color: Black

Features
- Easy assembly by clips
- Contact Essentra for alternate colors or custom logo options

Item No.	Door Thickness mm	Cut-Out mm	Pack Qty.
37415	0.8 - 1.5	1.07 x 70.5	1

HALB Series
Bridge Handles

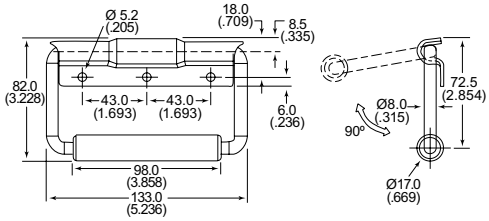


Specifications:
- Material: Aluminum
- Color: Black

Features:
- Pretapped M5 Mounting Holes

Item No.	W in	W mm	H in	H mm	T in	T mm	Thread Size	Bulk Pack Qty.
HALB100A	3.940	100.0	1.500	38.0	0.630	16.0	M5	50
HALB150A	5.910	150.0	1.500	38.0	0.630	16.0	M5	50

HSL Series
Spring Loaded Hinged Handle

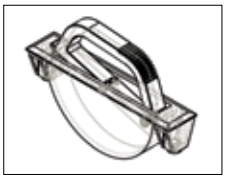


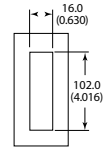
Specifications:
- Material: Chrome Plated Steel

Features:
- Rubber grip on handle
- Spring loaded to keep flush

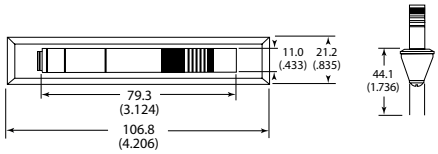
Item No.	Bulk Pack Qty.
HSL100A	5

HSCP Series
Surface Mount Concealed Pull Handle





Cut-Out



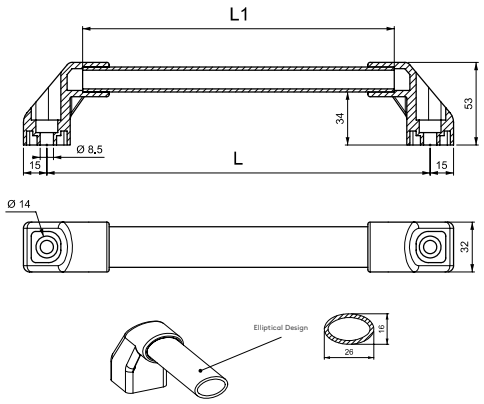
Specifications:
- Body Material: Polyoxymethylene
- Handle Material: Black Powder Coated Metal
- Color: Black

Features:
- Supplied with screws
- Maximum hinge rotation of 168°

Item No.	Bulk Pack Qty.
HSCP100A	20

COVER HANDLES

Cover Handle

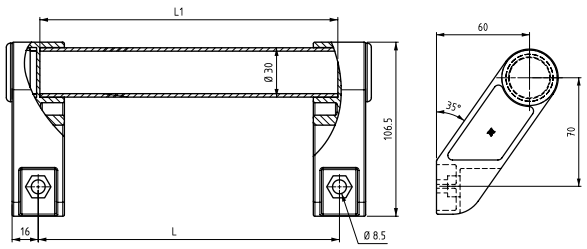


Specifications
- Materials:
  Fixing Part: Nylon Black (PA6 30% GF)
  Handle: Aluminum
- Finish: Matt anodized aluminum

Features
- Ergonomic elliptical handle
- Contact Essentra for alternate colors and dimensions

Item No.	Length L1 mm	Length L mm
287200	154	200
287300	254	300
287400	354	400
287500	454	500

Cover Handle

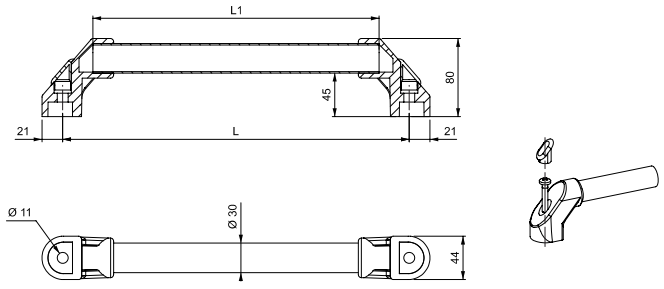


Specifications
- Materials:
  Fixing Part: Nylon Black (PA6 30% GF)
  Handle: Steel (Plastic Coated)
- Finish: Matt anodized aluminum

Features
- Plastic coated steel handle
- Contact Essentra for alternate lengths and colors

Item No.	Length L1 mm	Length L mm
387300	298	300
387400	398	400
387500	498	500
387600	598	600
387700	698	700
387800	798	800
3871000	998	1000

Cover Handle



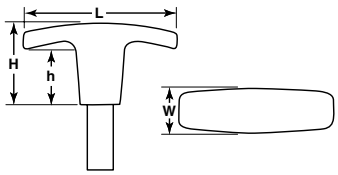
Specifications
- Materials:
  Fixing Part: Nylon Black (PA6 30% GF)
  Handle: Stainless Steel

Features
- Please contact Essentra for alternate dimensions and colors

Item No.	Length L1 mm	Length L mm
487300	298	300
487400	398	400
487500	498	500
487600	598	600
487700	698	700
487800	798	800
4871000	998	1000

T-HANDLES, ADJUSTABLE & PULL HANDLES

KTE Series
T Knobs



Specifications:
- Knob Material: Nylon 6
- Insert Material: Aluminum Insert or Plated Steel Stud
- Color: Black

Features:
- Knurled matte finish for easy gripping
- High impact resistant material
- Resistant to most oils, fuels and greases

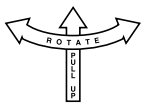
Female Knobs

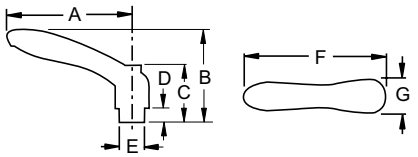
Item No.	Style	Thread Size	L in	H in	h in	W in	Bulk Pack Qty
KTE1000A	Female	1/4 - 20	1.57	1.18	0.79	0.51	100
KTE1100A	Female	1/4 - 20	1.97	0.98	0.63	0.63	100
KTE1200A	Female	1/4 - 20	2.36	1.26	0.91	0.71	100
KTE1300A	Female	5/16 - 11	2.80	1.34	0.75	0.75	100
KTE1400A	Female	3/8 - 16	3.15	1.57	1.02	1.06	100

Male Knobs

Item No.	Style	Thread Size	Stud Length	L in	H in	h in	W in	Bulk Pack Qty
KTE2000A	Male	1/4 - 20	0.78	1.57	1.18	0.79	0.51	100
KTE2100A	Male	1/4 - 20	0.78	1.97	0.98	0.63	0.63	100
KTE2200A	Male	1/4 - 20	0.98	2.36	1.26	0.91	0.71	100
KTE2300A	Male	5/16 - 18	1.18	2.80	1.34	0.75	0.75	100
KTE2400A	Male	3/8 - 16	1.58	3.15	1.57	1.02	1.06	100

HDST Series
Heavy Duty Indexing Handles





Specifications:
- Handle Material: TPE (Rubber) Overlay and Polypropylene with Glass Reinforced Fibers
- Insert Material: Oxide Steel
- Color: Black

Features:
- Operates by simple lift and rotate action
- Ideal for confined spaces
- Manufactured with TPE (rubber) overlay for comfort grip
- Excellent impact and abrasion resistance

Female Handle

Item No.	A in	A mm	Thread Size	B in	B mm	C in	C mm	D in	D mm	E in	E mm	F in	F mm	G in	G mm	Bulk Pack Qty
HDST1000A	1.570	39.8	1/4 - 20	1.460	37.0	0.960	24.3	0.220	5.5	0.390	9.9	1.870	47.5	0.550	13.9	10
HDST1050A	2.560	65.0	5/16 - 18	1.990	50.5	1.120	28.4	0.260	6.6	0.490	12.4	2.910	73.9	0.750	19.0	10
HDST1100A	3.150	80.0	5/16 - 18	2.540	64.5	1.460	37.0	0.390	9.9	0.630	16.0	3.580	90.9	0.870	22.1	10
HDST1150A	3.150	80.0	3/8 - 16	2.540	64.5	1.460	37.0	0.390	9.9	0.630	16.0	3.580	90.9	0.870	22.1	10

Male Handle

Item No.	A in	A mm	Thread Size	Stud Length	B in	B mm	C in	C mm	D in	D mm	E in	E mm	F in	F mm	G in	G mm	Bulk Pack Qty
HDST1200A	1.570	39.8	1/4 - 20	0.780	1.460	37.0	0.960	24.3	0.220	5.5	0.390	9.9	1.870	47.5	0.550	13.9	10
HDST1250A	2.560	65.0	5/16 - 18	0.780	1.990	50.5	1.120	28.4	0.260	6.6	0.490	12.4	2.910	73.9	0.750	19.0	10
HDST1300A	2.560	65.0	5/16 - 18	1.570	1.990	50.5	1.120	28.4	0.260	6.6	0.490	12.4	2.910	73.9	0.750	19.0	10
HDST1350A	3.150	80.0	5/16 - 18	1.570	2.540	64.5	1.460	37.0	0.390	9.9	0.630	16.0	3.580	90.9	0.870	22.1	10
HDST1400A	3.150	80.0	3/8 - 16	1.960	2.540	64.5	1.460	37.0	0.390	9.9	0.630	16.0	3.580	90.9	0.870	22.1	10

DWP Series
Drawer Pulls

Style 1

Style 2

Style 3

Style 4

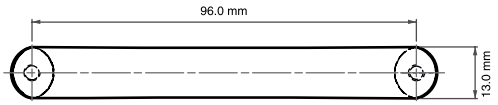
Specifications
- Material: See Table
- Color: See Table

Item No.	Style	Distance Between Holes in	Distance Between Holes mm	Material	Color	Bulk Pack Qty
DWP1100A	1	4.000	101.6	Nylon	Black	30
DWP1200A	2	4.000	101.6	ABS	Black	33
DWP1300A	3	4.000	101.6	ABS	Black	30
DWP1400A	4	3.750	95.3	ABS	Black	30
DWP1400E	4	3.750	95.3	ABS	Grey	30

PULL HANDLES

Millenium Handles

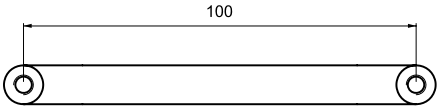
Specifications
- Materials: Zinc Alloy
- Finish: See Table
- Handle is DIN-EN 1774 rated

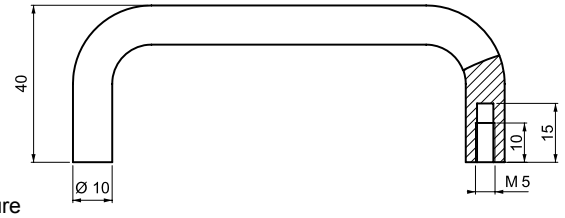


Features
- Stylish handle for wooden and metal furniture

Item No.	Finish	Pack Qty.
08411	Chrome Plated	1
08412	Black Powder Coated	1

Drawer Handles



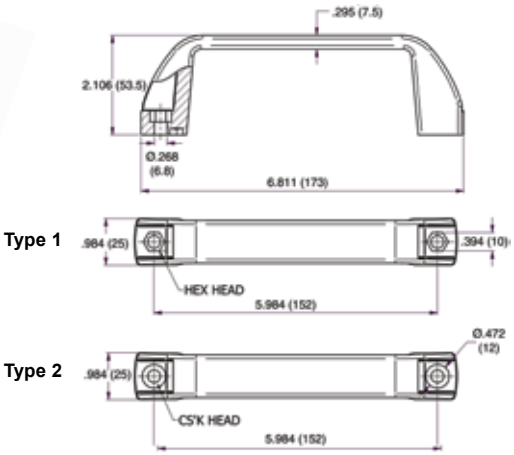


Specifications
- Material: See Table
- Finish: See Table

Features
- Stylish handle for wooden furniture and keyboard shelf in rack enclosure

Item No.	Material	Finish	Pack Qty.
1844040100	Stainless Steel	No Finish	1
1845740100	Aluminium	Matt Anodized	1
1846140100	Steel	Chrome Plated	1

Cover Handles



NEW

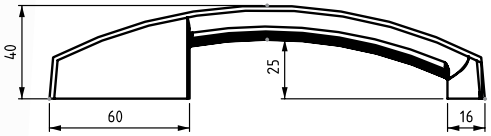
Specifications:
- Material: Nylon 6
- Color: Black

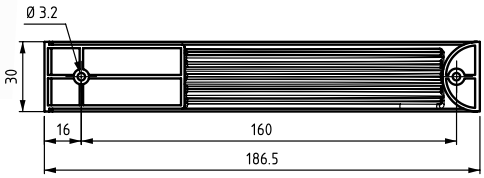
Features:
- Ideal for machinery covers

Item No.	Type	Bulk Pack Qty
1861	1	25
1862	2	25

COVER HANDLES / DRAWER HANDLES

Cover Handles



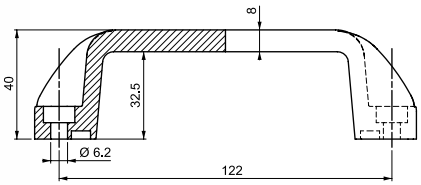


Specifications
- Material: 30% Glass-Filled Nylon 6
- Color: Black

Features
- Compliant to DIN-EN 1043-1
- Ideal for machinery cover applications
- Installation using two screws

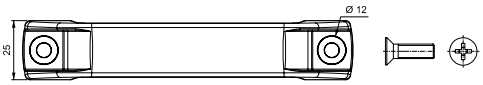
Item No.	Pack Qty.
286	1

Cover Handles



Version 1

Version 2

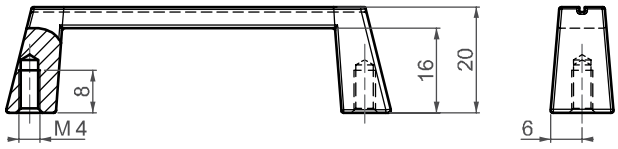


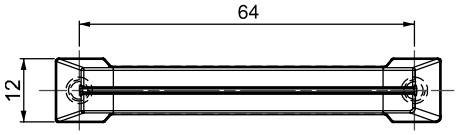
Specifications
- Material: 30% Glass-Filled Nylon 6
- Color: Black

Features
- Two different types of securing

Item No.	Version	Pack Qty.
0861	1	1
0862	2	1

Drawer Handles





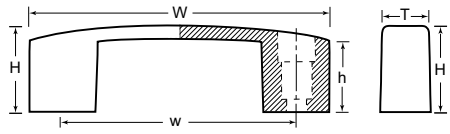
Specifications
- Materials: Zinc Alloy
- Finish: See Table

Features
- Handle is DIN-EN 1774 rated
- Stylish handle for wooden furniture and keyboard shelf in rack enclosure

Item No.	Finish	Pack Qty.
08511	Chrome Plated	1
08512	Black Powder Coated	1

PULL HANDLES

HBS Series
Bridge Handles

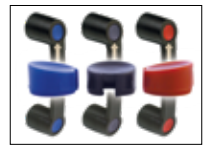


Specifications:
- Material: Nylon
- Color: Black

Features:
- Round base with plain bore thru hole for use with specified socket head cap screw
- Made of impact & scratch resistant material
- Lightweight and versatile
- Optional caps available in 3 different colors, see HBSC Series

Item No.	W		H		w		h		T		Fits Socket Head Screw	Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm		
HBS0100A	4.705	119.5	1.378	35.0	3.677	93.4	1.142	29.0	1.024	26.0	1/4-20, 5/16 - 18, M6	100
HBS0110A	5.709	145.0	1.575	40.0	4.606	117.0	1.339	34.0	1.142	29.0	5/16 - 18, M8	100
HBS0120A	6.417	163.0	1.772	45.0	5.197	132.0	1.496	38.0	1.220	31.0	5/16 - 18, M8	100

HBSC Series
Bridge Handle Caps



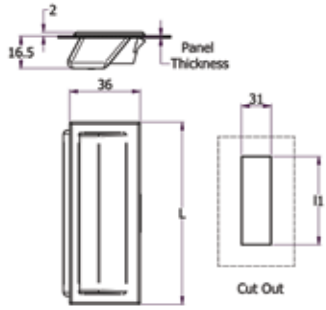
Specifications:
- Material: Nylon
- Color: See Table

Features:
- Available for closure purposes or color-coding requirements
- Available in 2 sizes & 3 colors to fit HBS Series Handles

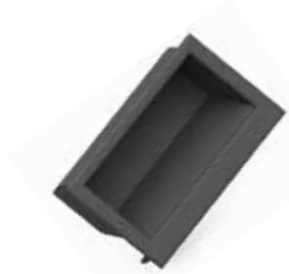
Used with Bridge Handles. See HBS Series above

Item No.	Color	Used With	Bulk Pack Qty
HBSC06A	Black	**HBS0100A, HBS0110A**	200
HBSC06B	Blue	**HBS0100A, HBS0110A**	200
HBSC06C	Red	**HBS0100A, HBS0110A**	200
HBSC08A	Black	**HBS0120A**	200
HBSC08B	Blue	**HBS0120A**	200
HBSC08C	Red	**HBS0120A**	200

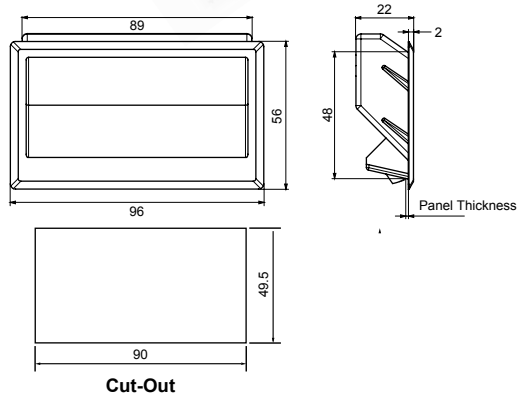
Snap-In Cover Pull Handle



Type 1



NEW



Cut-Out

Type 2

Specifications:
- Material: Nylon 6
- Color: Black

Features:
- Ideal for machinery covers
- Easy assembly by clips
- Flush design
- Contact Essentra for alternate colors or custom logo options

Item No.	Type	Panel Thickness	Dimensions mm		Bulk Pack Qty
			L	l1	
074	2	0.8 - 1.4	96.0	90.0	25
274115	1	0.8 - 1.4	93.0	87.5	50
274122	1	1.5 - 2.2	93.0	87.5	50
274215	1	0.8 - 1.4	136.0	132.0	50
274222	1	1.5 - 2.2	136.0	132.0	50

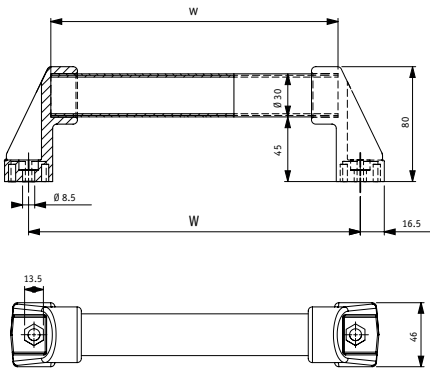
PULL HANDLES

Machine Handles

- Type 1 & 2 can be ordered as component parts
- Type 1 - Polyamide with steel bar
- Type 2 - Polyamide with aluminium bar

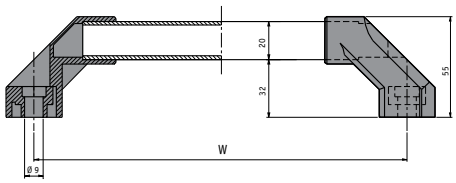
NEW

Type 1
Polyamide Coated Steel Bar



Item No.	W		w		Bulk Pack Qty
	in	mm	in	mm	
187300	11.81	300	10.59	269	25
187400	15.75	400	14.53	369	30
187500	19.69	500	18.46	469	20
187600	23.62	600	22.40	569	20
187700	27.56	700	26.34	669	20
187800	31.50	800	30.28	769	10
187900	35.43	900	38.15	969	10
1871000	39.37	1000	39.29	998	10

Type 2
Aluminum Bar



Item No.	W		Bulk Pack Qty
	in	mm	
087200	7.87	200	75
087300	11.81	300	50
087400	15.75	400	50
087500	19.69	500	50

Type 1&2 Component Parts

Type 1: Middle Holder

Type 1 Handle Ends

Type 2 Handle Ends

Type 2: 1m Long Aluminium Bar

Type 1: 1m Long Steel Bar

Item No.	W	Bulk Pack Qty.
34002501	Type 1 Middle Holder	25
35002006	Type 1 Handle Ends	25
35002002	Type 2 Handle Ends	50
320036001000	Type 1: 39.37 In / 1m Long Steel Bar	10
32006015	Type 2: 39.37 In / 1m Long Aluminum Bar	25

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SWINGHANDLE LATCHES ..... 394 - 402

LIFT & TURN SWELL LATCHES..... 403 - 405

ACCESSORIES, CAMS, DRIVERS & KEYS .....406 - 418

HEAVY DUTY LATCHES .....419 - 430

SLIDING LATCHES & CLAMPS..... 431 - 433

ROTARY LATCHES..... 434 - 435

SPECIALTY LATCHES & TOGGLE CLAMPS ..... 436 - 444

GASKETING ..... 445 - 446

SURFACE MOUNT HINGES..... 448 - 470

SIDE MOUNT HINGES..... 471 - 479

CORNER MOUNT HINGES ..... 480 - 487

CONCEALED & SPRING LOADED HINGES ..... 488 - 500

CATCHES & PANEL FASTENERS..... 501 - 505

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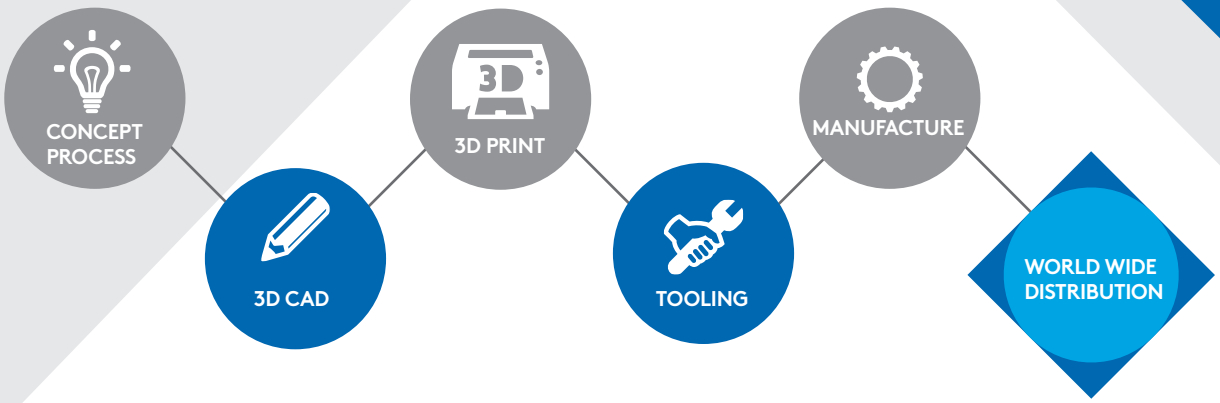
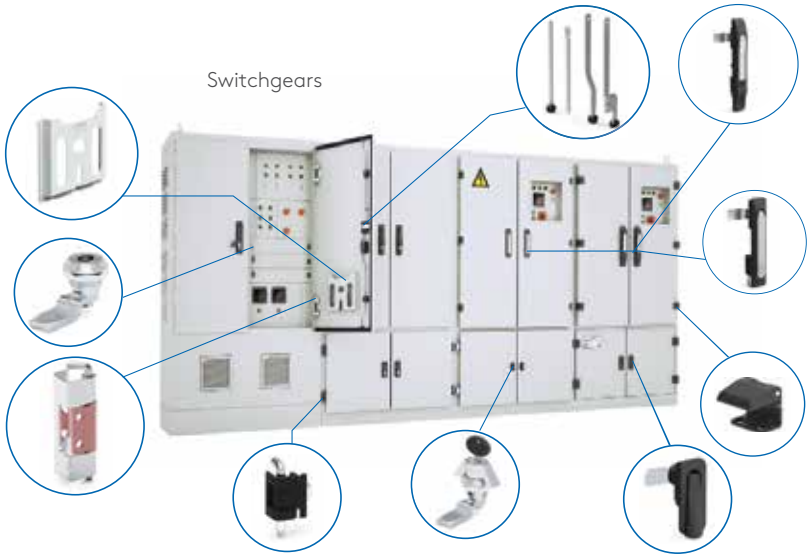
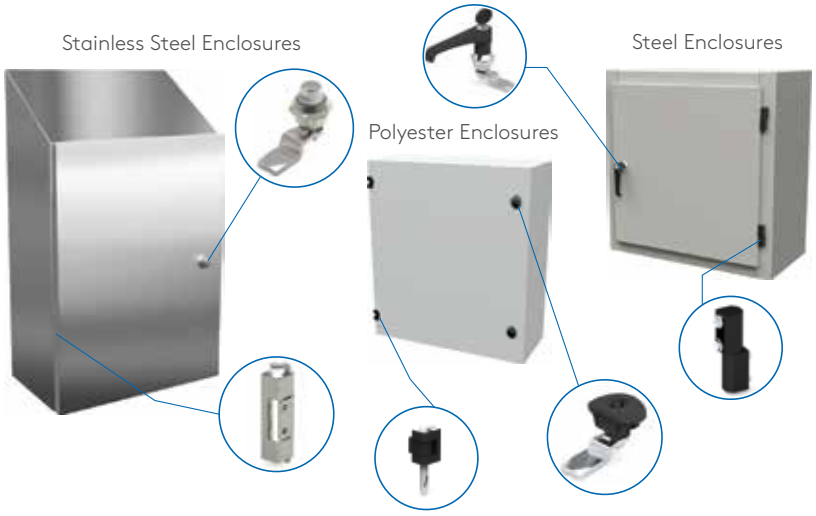


Indoor Cabinets

Essentra Components has an extensive range of secure switchgears, primarily for use on indoor cabinets. The range covers Swinghandles, Linear Locking Systems, 3 Point Locking Systems, Multipoint Locking systems, QuarterTurns, Camlocks, Hinges, Gaskets, and Project Holders.

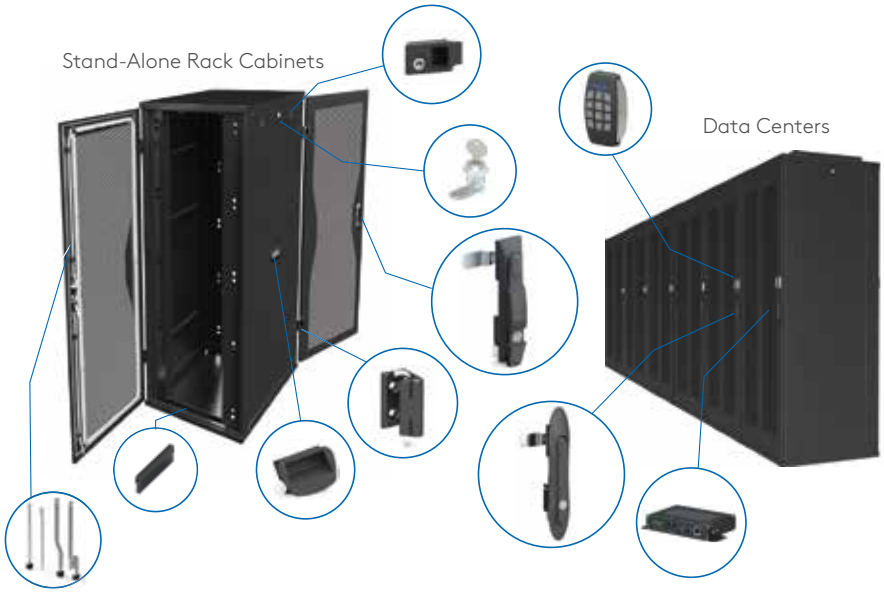




Outdoor Cabinets

Specialist cabinet locks are required for a variety of applications not limited to ADSL, Telecommunication and CCTV applications.
We offer a wide range of products in this sector including high security 1/2 din locks and WK2 standard locks.

YOUR SOLUTIONS PARTNER



IT Cabinets

With sensitive data becoming more and more prevalent, it's now more important than ever to securely manage your electronic cabinets. We've designed a range of high-tech Electromechanical Locking Systems to help monitor and track internal environments and entry to cabinets.

Power Generators

Our eclectic product range means we've got a solution no matter how complex your needs. With our customer-centric designs, alternative solutions and our high-standard products, we can meet all your needs for both basic and sound proof canopies.

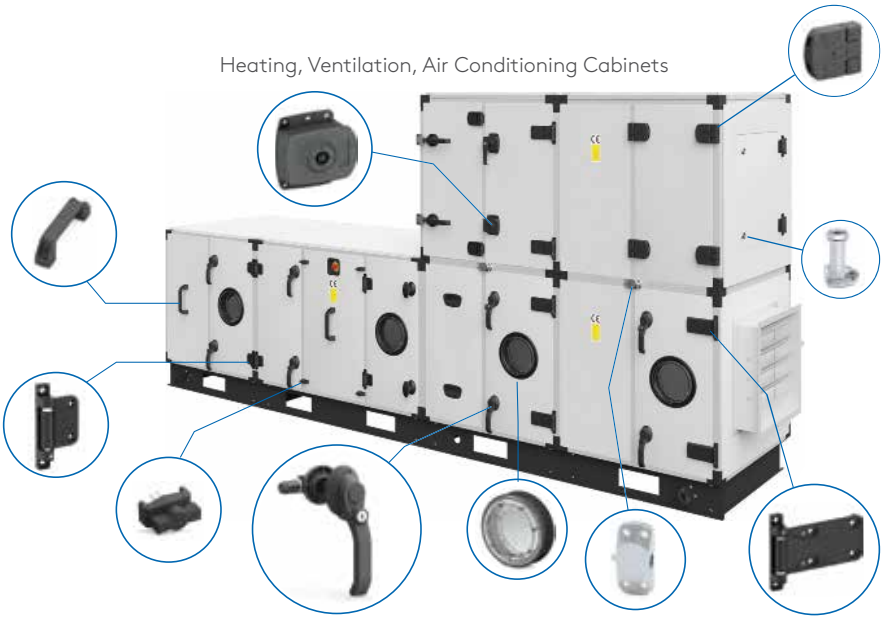
Transformers

When working with transformers, it's important that all entry points are kept secure, particularly areas that contain medium voltage cells. Our solutions are high quality and secure, including hinges and locks designed for containment resistant requirements.

HVAC

Outdoor HVAC cabinets need to cope with the differing environments in which they are used while ergonomics, functionality and modular system solutions are more common requirements. Our solutions are designed with this in mind so no matter the application, our offering will meet your needs.

Heating, Ventilation, Air Conditioning Cabinets



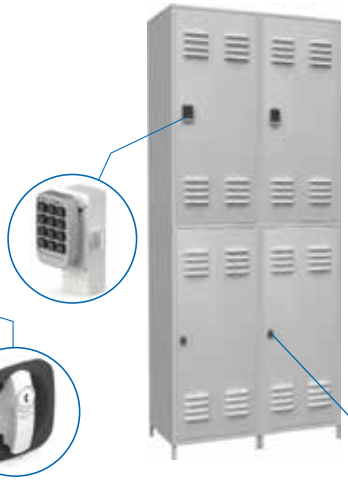
Diversfied Applications

Our expertise spans across many industries, allowing catered solutions to be produced for a number of non-standard applications.

Tool Cabinets

Fire Extinguisher

Lockers



Furniture

File Cabinets

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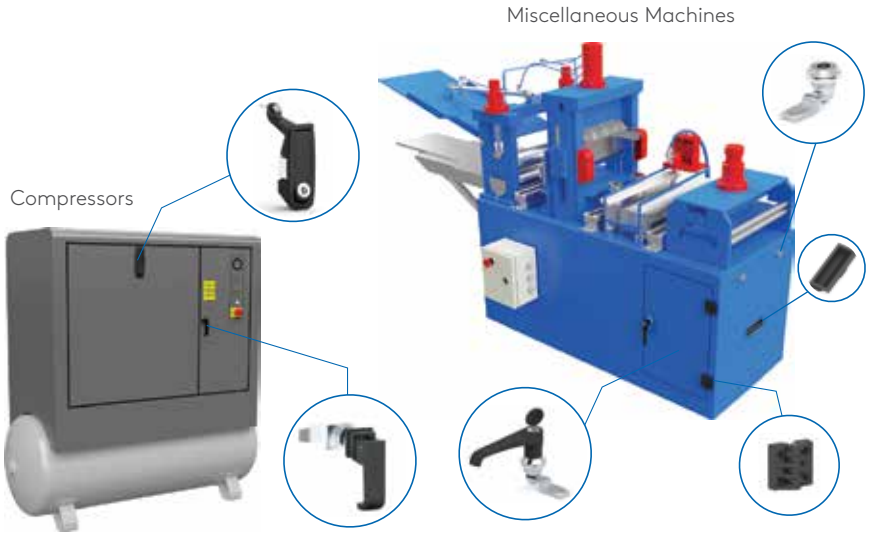

Industrial Machinery

Whether you're building indoor or outdoor machines, sealing, noise isolation and vibration reduction are some of your most important considerations. Essentra Components offers a wide range of solutions designed to meet your specific requirements.

Road Transportation

We produce solutions for HGVs, utility trucks, caravans, construction machinery, and buses. Our range is specifically catered to the needs of these applications, offing paddle latches, quarter turn locks and latches, custom hinges, sealing products, and many other functional solutions.

Rail Transportation

Suitable for both subway trains and high speed trains our compression latches, are certified to DIN EN 60068-2-64 [04/2011]. Many of our sealing products, trigger latches and heavy duty hinges are also UL 94 certified.

MONITORING & ACCESS CONTROL CONCEPT

The security of IT cabinets in server rooms and data centers is becoming more important worldwide. The reason is that a typical IT infrastructure supports the entire organization and stores the know-how of the company.

We have developed an integrated access control system called ELS.

This new system enables you to monitor and control your IT environment in a very efficient way. Sensors detect door access, variations in temperature, security and other variables to give you immediate notification and greater control over your network, all at a great value. Cabinet doors can be opened by RFID cards, a key pad or remote control units.

This solution manages who can open which cabinet doors and when and allows you to get a detailed report for each cabinet.

BASIC FEATURES:

- Provides environmental monitoring, access control and a management system
- Prevents unauthorized access
- Allows doors to be opened using a proximity card, keypad or via a web interface
- Accommodates sensors to monitor temperature, humidity, smoke, the presence of water or liquids, etc.
- Automatically generates an audio alert
- Records all the security information you need every time the door to a server cabinet is opened – whom, where, when

APPLICATIONS

Server Cabinets | Data Centers | Electric Panels | Telecommunications | Kiosks | GSM Cabinets

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SYSTEM OVERVIEW

- IP monitoring of environmental conditions in the rack cabinet
- Control of physical access to the rack cabinet
- User interface via proximity card reader or keypad
- Electronic lock access authorization

Monitoring and Access Control Units

ACU: Access Control Unit
ACU Plus: Access Control Unit
AIK: Access Interface Keypad
AIP: Access Interface Proximity

Standalone Access Interfaces

S-AIK : Access Interface Keypad
S-AIP : Access Interface Proximity

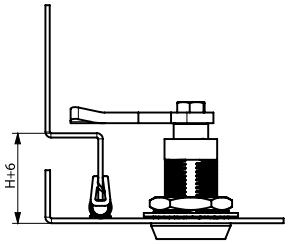
Electronic Swinghandles

Other Electromechanical Locks

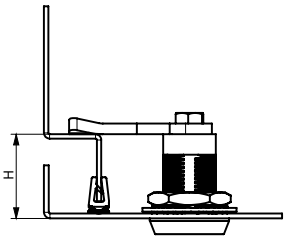
For all Electronic Locking Systems (ELS) and Solutions, please contact Essentra for details.

COMPRESSION LATCHES

040 Series
Fixed Compression Latches & Locks



The first 90° of key rotation turns the cam to locking position



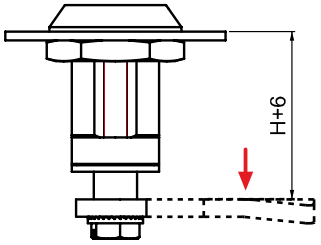
Further key rotation 180° applies 6 mm compression

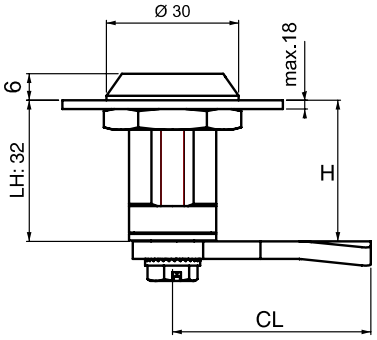
IP65

RoHS

Specifications:
- Material:
  Housing: Zinc Alloy
  Driver: Zinc Alloy
  Cam: Steel
  Washer: Rubber
- Finish: See Table

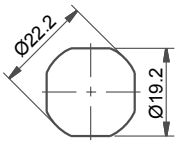
Features:
- Provides 6mm preset compression
- Lock is vibration and shock rated per DIN-EN 61373
- Housing and driver is DIN-EN 1774 rated
- Latch provides good compression and noise isolation
- Alternate cut-out available, contact Essentra for details





FOR ALTERNATE DRIVERS SEE PAGE 416.
CAMS SOLD SEPARATELY. SEE PAGES 412 - 413.
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Round Spurred Lock Washer - Optional
- Item No. 060A3
- Ideal for round through hole installation
- Ordered separately



Cut-Out

Driver Style					
13	37	42	68	93	94
3mm Double Bit	7mm Triangle	2 x 4mm Slot	8mm Hex	Tubular Key	Wing Knob

Item No.	Finish	Driver Style	Driver Description	Hand Operation
0403111300001	Chrome Plated	13	3mm Double Bit	Right
0403111300002	Chrome Plated	13	3mm Double Bit	Left
0403113700001	Chrome Plated	37	7mm Triangle	Right
0403113700002	Chrome Plated	37	7mm Triangle	Left
0403114200001	Chrome Plated	42	2 x 4mm Slot	Right
0403114200002	Chrome Plated	42	2 x 4mm Slot	Left
0403116800001	Chrome Plated	68	8mm Hex	Right
0403116800002	Chrome Plated	68	8mm Hex	Left
0403119300001	Chrome Plated	93	Tubular Key	Right
0403119300002	Chrome Plated	93	Tubular Key	Left
0403119400001	Chrome Plated	94	Wing Knob	Right
0403119400002	Chrome Plated	94	Wing Knob	Left
0403121300001	Black Powder Coated	13	3mm Double Bit	Right
0403121300002	Black Powder Coated	13	3mm Double Bit	Left
0403123700001	Black Powder Coated	37	7mm Triangle	Right
0403123700002	Black Powder Coated	37	7mm Triangle	Left
0403124200001	Black Powder Coated	42	2 x 4mm Slot	Right
0403124200002	Black Powder Coated	42	2 x 4mm Slot	Left
0403126800001	Black Powder Coated	68	8mm Hex	Right
0403126800002	Black Powder Coated	68	8mm Hex	Left
0403129300001	Black Powder Coated	93	Tubular Key	Right
0403129300002	Black Powder Coated	93	Tubular Key	Left
0403129400001	Black Powder Coated	94	Wing Knob	Right
0403129400002	Black Powder Coated	94	Wing Knob	Left

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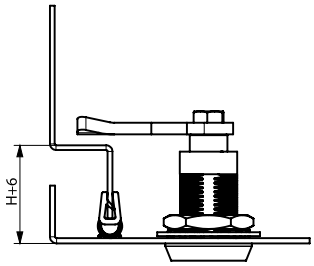
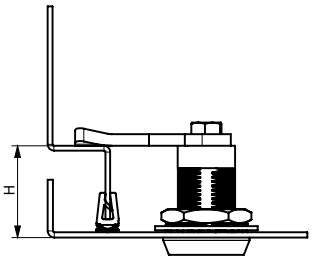
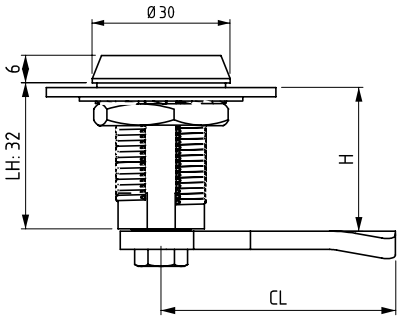
040 Series
Fixed Compression Latches & Locks - Stainless Steel

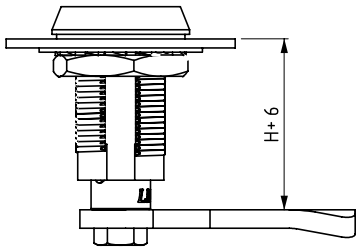


The first 90° of key rotation turns the cam to locking position



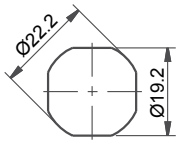
Further key rotation 180° applies 6mm compression





Specifications:
- Material:
  Housing: Stainless Steel
  Driver: Stainless Steel
  Cam: Stainless Steel
  Washer: Rubber
- Finish: Natural
- Includes Lock Washer

Features:
- Latch provides good compression, noise dampening and better sealing under vibration conditions
- Provides 6mm preset compression
- Lock is vibration and shock rated per DIN-EN 61373
- Housing and driver is DIN-EN 1774 rated
- Alternate cut-out available, contact Essentra for details



Cut-Out

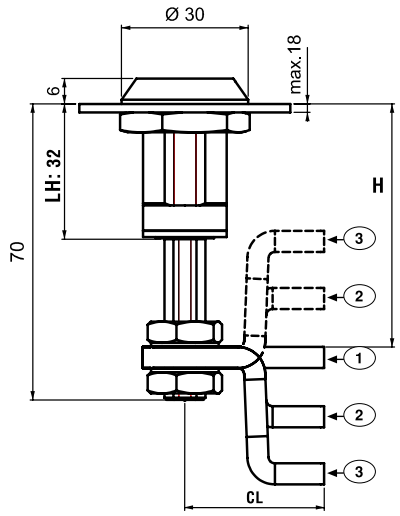
FOR ALTERNATE DRIVERS SEE PAGE 416.
CAMS SOLD SEPARATELY. SEE PAGE 414.
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

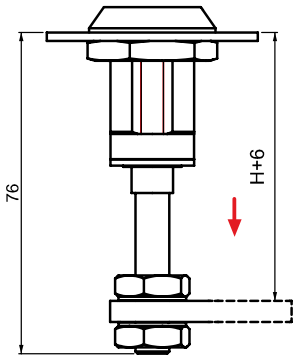
Driver Style				
13	28	37	42	88
3mm Double Bit	8mm Square	7mm Triangle	2 x 4mm Slot	Railway

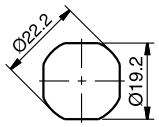
Item No.	Driver Style	Driver Description	Hand Operation
0408401300001	13	3mm Double Bit	Right
0408401300002	13	3mm Double Bit	Left
0408402800001	28	8mm Square	Right
0408402800002	28	8mm Square	Left
0408403700001	37	7mm Triangle	Right
0408403700002	37	7mm Triangle	Left
0408404200001	42	2 x 4mm Slot	Right
0408404200002	42	2 x 4mm Slot	Left
0408408800001	88	Railway	Right
0408408800002	88	Railway	Left

COMPRESSION LATCHES

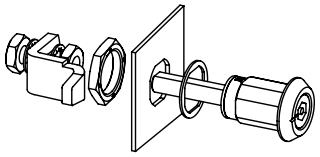
040 Series
Adjustable Compression Latches & Locks







Cut-Out



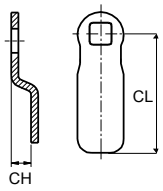
Specifications:
- Material:
  Housing: Zinc Alloy
  Driver: Zinc Alloy
  Cam: Steel
  Washer: Rubber
- Finish: See Table

Features:
- Wide Grip range with adjustable screw
- Latch provides good compression, noise dampening and better sealing under vibration condition
- Provides 6mm preset compression
- Lock is vibration and shock rated per DIN-EN 61373
- Housing and driver is DIN-EN 1774 rated
- Alternate cut-out available, contact Essentra for details

FOR ALTERNATE DRIVERS SEE PAGE 416.
CAMS SOLD SEPARATELY. See Table >>
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Round Spurred Lock Washer - Optional
- Item No. 060A3
- Ideal for round through hole Installation
- Ordered separately

Cams Without Stoppers



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	Cam Type		CH	CL	Position	H Grip* Min	H Grip* Max
30403565	①	Flat	0	33	Cam Straight	41	58
30403566	②	Offset	14	33	Reversed	27	44
					Forward	55	72
30403567	③	Offset	27.5	33	Reversed	13.5	30.5
					Forward	68	85

***Grip is measured in latched position**

Driver Style						
13	27	37	42	68	93	94
3mm Double Bit	7mm Square	7mm Triangle	2 x 4mm Slot	8mm Hex	Tubular Key	Wing Knob

Item No.				
Chrome Plated	Black Powder Coated	Driver Style	Driver Description	Hand Operation
—	0404121300001	13	3mm Double Bit	Right
0404111300002	0404121300002	13	3mm Double Bit	Left
—	0404122700001	27	7mm Square	Right
—	0404122700002	27	7mm Square	Left
—	0404123700001	37	7mm Triangle	Right
—	0404123700002	37	7mm Triangle	Left
—	0404124200001	42	2 x 4mm Slot	Right
—	0404124200002	42	2 x 4mm Slot	Left
0404116800001	0404126800001	68	8mm Hex	Right
0404116800002	0404126800002	68	8mm Hex	Left
0404119300001	0404129300001	93	Tubular Key	Right
0404119300002	0404129300002	93	Tubular Key	Left
0404119400001	0404129400001	94	Wing Knob	Right
0404119400002	0404129400002	94	Wing Knob	Left

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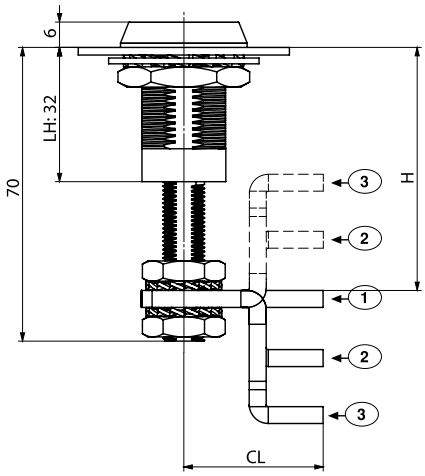
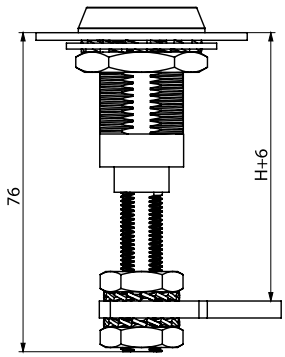
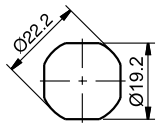
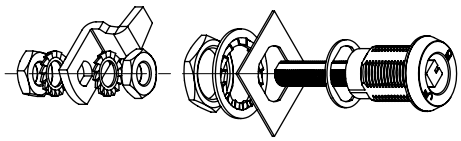
040 Series
Adjustable Compression Latches & Locks - Stainless Steel







Cut-Out



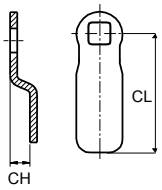
Specifications:
- Material:
  Housing: Stainless Steel
  Driver: Same as housing
  Cam: Stainless Steel
  Washer: Rubber
- Finish: Natural

Features:
- Wide Grip range with adjustable screw
- Ideal for applications that require better sealing under vibration conditions
- Provides 6mm preset compression
- Lock is vibration and shock rated per DIN-EN 61373
- Housing and driver is DIN-EN 1774 rated
- Alternate cut-out available, contact Essentra for details

FOR ALTERNATE DRIVERS SEE PAGE 416.
CAMS SOLD SEPARATELY. See Table >>
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Round Spurred Lock Washer - Optional
- Item No. 060A3
- Ideal for round through hole installation
- Included with Stainless Steel version

Cams Without Stoppers



Specifications:
- Material: Stainless Steel
- Finish: Natural
- Thickness: 4mm

Item No.	Cam Type		CH	CL	Position	H Grip* Min	H Grip* Max
30405565	①	Flat	0	33	Cam Straight	41	58
30405566	②	Offset	14	33	Reversed	27	44
					Forward	55	72
304035567	③	Offset	27.5	33	Reversed	13.5	30.5
					Forward	68	85

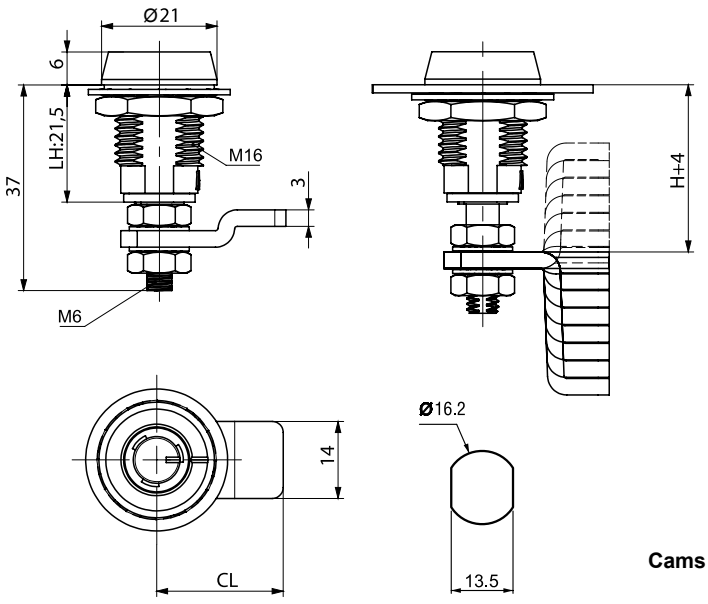
***Grip is measured in latched position**

Driver Style				
13	28	37	42	88
3mm Double Bit	8mm Square	7mm Triangle	2 x 4mm Slot	Railway

Item No.	Driver Style	Driver Description	Hand Operation
0406401300001	13	3mm Double Bit	Right
0406401300002	13	3mm Double Bit	Left
0406402800001	28	8mm Square	Right
0406402800002	28	8mm Square	Left
0406403700001	37	7mm Triangle	Right
0406403700002	37	7mm Triangle	Left
0406404200001	42	2 x 4mm Slot	Right
0406404200002	42	2 x 4mm Slot	Left
0406408800001	88	Railway	Right
0406408800002	88	Railway	Left

COMPRESSION LATCHES

140 Series
Mini Adjustable Compression Latches & Locks



Cut-Out

IP65

RoHS

Suitable for Left or Right Hand LH RH

Specifications:
- Material:
  Housing: Zinc Alloy
  Driver: Zinc Alloy
  Cam: Steel
  Gasket: Rubber
- Finish: See Table
- Housing and Driver are DIN-EN 1774 rated

Features:
- Wide Grip range with adjustable screw
- Ideal for applications that require better sealing
- Provides 4mm preset compression

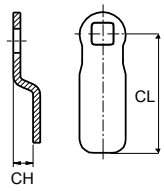
FOR ALTERNATE DRIVERS SEE PAGE 416.

CAMS SOLD SEPARATELY. See Table >>

DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Dust Cap - Optional
- Item No. 140A1
- Ordered separately

Cams Without Stoppers



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	Cam Type	CH	CL	Position	H Grip* Min	H Grip* Max
30403606	Flat	0	23	Cam Straight	26.2	29.4
30403607	Offset	1.0	23	Reversed	25.2	28.4
				Forward	27.2	30.4
30403608	Offset	3.8	23	Reversed	22.4	25.6
				Forward	30.0	33.2
30403609	Offset	7.0	23	Reversed	19.2	22.4
				Forward	33.2	36.4
30403610	Offset	10.2	23	Reversed	16.0	19.2
				Forward	36.4	39.6
30403611	Offset	13.4	23	Reversed	12.8	16.0
				Forward	39.6	42.8
30403612	Offset	16.6	23	Reversed	9.6	12.8
				Forward	42.8	46.0
30403613	Offset	19.8	23	Reversed	6.4	9.6
				Forward	46.0	49.2
30403614	Offset	23.0	23	Reversed	3.2	6.4
				Forward	49.2	52.4

***Grip is measured in latched position**

Driver Style			
45	64	93	94
Slot	4mm Hexagon	Tubular Key	Wing Knob

Item No.			
Chrome Plated	Black Powder Coated	Driver Style	Driver Description
140114500	140124500	45	Slot
140116400	140126400	64	4mm Hexagon
140119300	140129300	93	Tubular Key
140119400	140129400	94	Wing Knob

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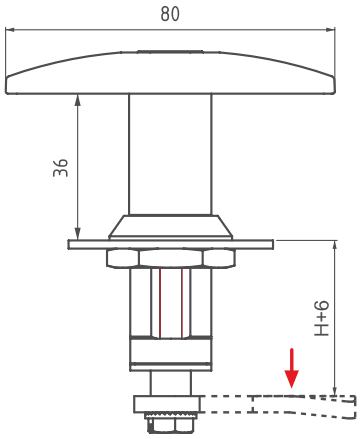
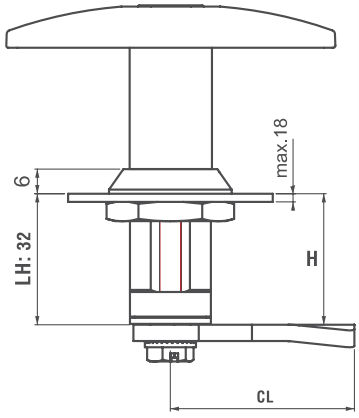
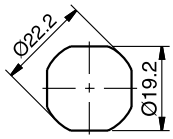
240 Series
Compression Latches - 'T' Handle Fixed Locks







Cut-Out

Specifications:
- Material:
  Housing: Zinc Alloy
  Handle: Zinc Alloy
  Cam: Steel
  Gasket: Rubber
- Finish: See Table
- Housing and Handle are DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Ideal for applications that require better sealing
- For alternate cut-outs or cylinders, please contact Essentra for details

Round Spurred Lock Washer - Optional
- Item No. 060A3
- Ideal for round through hole Installation
- Ordered separately

CAMS SOLD SEPARATELY. SEE PAGES 412 - 413.

Item No.		
Chrome Plated	**Black Powder Coated**	**Cylinder Description**
2403110000	**2403120000**	No Cylinder
2403110700	**2403120700**	CH 751 (Stainless Steel Shutter)

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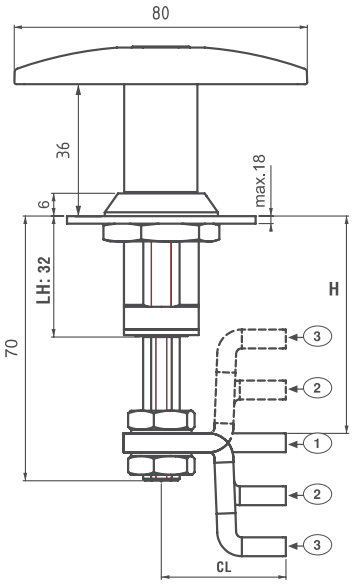
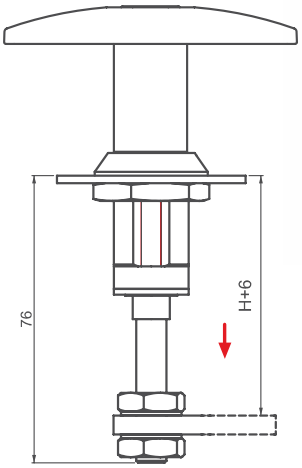
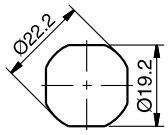
COMPRESSION LATCHES

240 Series
Compression Latches - Adjustable 'T' Handle Locks







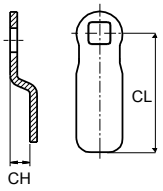
Cut-Out

Specifications:
- Material:
  Housing: Zinc Alloy
  Handle: Zinc Alloy
  Cam: Steel
  Gasket: Rubber
- Finish: See Table
- Housing and Handle are DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Wide Grip range with adjustable nut
- Ideal for applications that require better sealing
- Adjustable screw latches with quarter turn Cam operation
- Provides 6mm preset compression
- For alternate cylinders, please contact Essentra for details

CAMS SOLD SEPARATELY. See Table >>

Cams Without Stoppers



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	Cam Type		CH	CL	Position	H Grip* Min	H Grip* Max
30403565	①	Flat	0	33	Cam Straight	41	58
30403566	②	Offset	14	33	Reversed	27	44
					Forward	55	72
30403567	③	Offset	27.5	33	Reversed	13.5	30.5
					Forward	68	85

***Grip is measured in latched position**

Item No.		
Chrome Plated	Black Powder Coated	Cylinder Description
2404110000	2404120000	No Cylinder
2404110700	2404120700	CH 751 (Stainless Steel Shutter)

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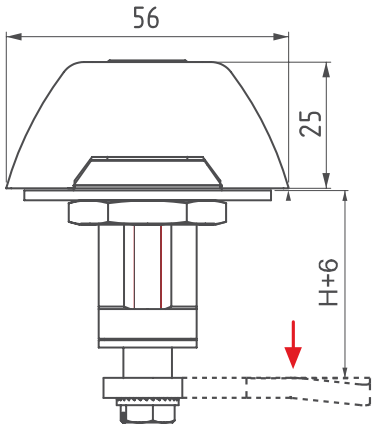
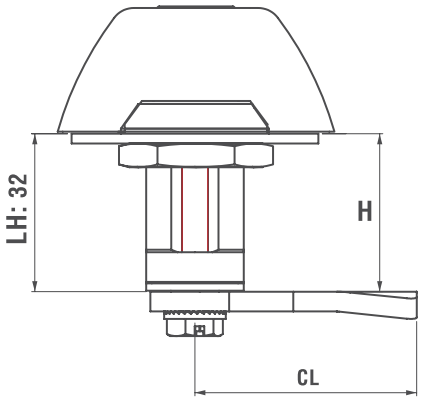
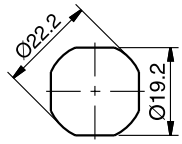
340 Series
Compression Latches - Wing Knob Fixed Locks







Cut-Out

Specifications:
- Material:
  Housing: Zinc Alloy
  Knob: Zinc Alloy
  Cam: Steel
  Gasket: Rubber
- Finish: See Table
- Housing and Knob are DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Ideal for applications that require better sealing
- Provides 6mm preset compression
- For alternate cut-outs, cylinders or padlockable version, please contact Essentra for details

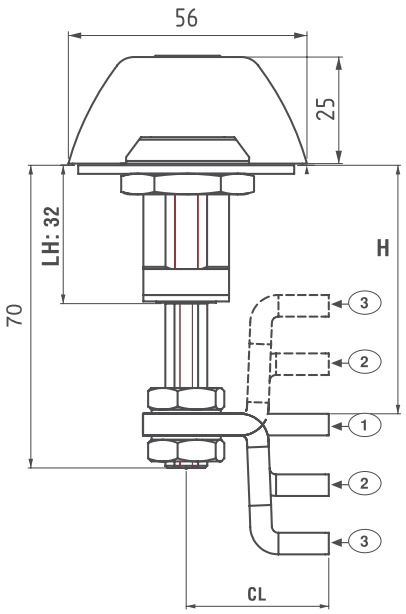
CAMS SOLD SEPARATELY. SEE PAGES 412 - 413.

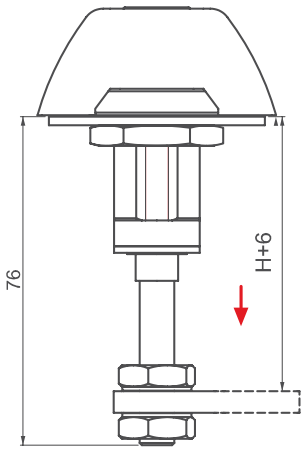
Round Spurred Lock Washer - Optional
- Item No. 060A3
- Ideal for round through hole Installation
- Ordered separately

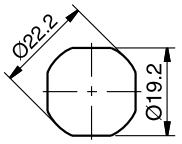
Item No.		
Chrome Plated	**Black Powder Coated**	**Cylinder Description**
3403110000	**3403120000**	No Cylinder
3403110700	**3403120700**	CH 751 (Stainless Steel Shutter)

COMPRESSION LATCHES

340 Series
Compression Latches - Wing Knob Adjustable Locks







Cut-Out

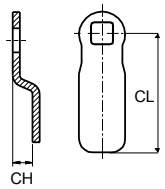
Specifications:
- Material:
  Housing: Zinc Alloy
  Knob: Zinc Alloy
  Cam: Steel
  Gasket: Rubber
- Finish: See Table
- Housing and Knob are DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Ideal for applications that require better sealing
- Adjustable screw latches with quarter turn CAM operation
- Provides 6mm preset compression
- For alternate cut-outs, cylinders or padlockable version, please contact Essentra for details

⚠ CAMS SOLD SEPARATELY. See Table >>

Round Spurred Lock Washer - Optional
- Item No. 060A3
- Ideal for round through hole Installation
- Ordered separately

Cams Without Stoppers



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	Cam Type		CH	CL	Position	H Grip* Min	H Grip* Max
30403565	①	Flat	0	33	Cam Straight	41	58
30403566	②	Offset	14	33	Reversed	27	44
					Forward	55	72
30403567	③	Offset	27.5	33	Reversed	13.5	30.5
					Forward	68	85

Item No.		
Chrome Plated	Black Powder Coated	Cylinder Description
3404110000	3404120000	No Cylinder
3404110700	3404120700	CH 751 (Stainless Steel Shutter)

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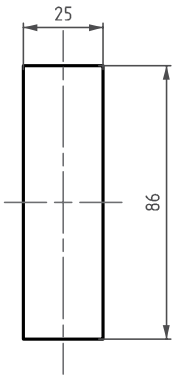
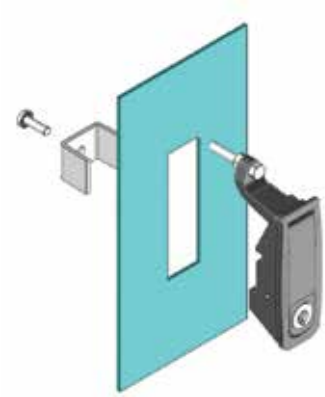
077 Series
Compression Latches / Flush Trigger Locks

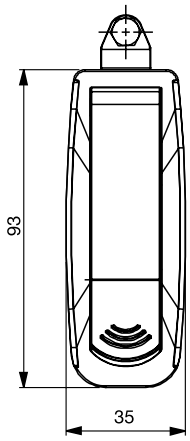
RoHS

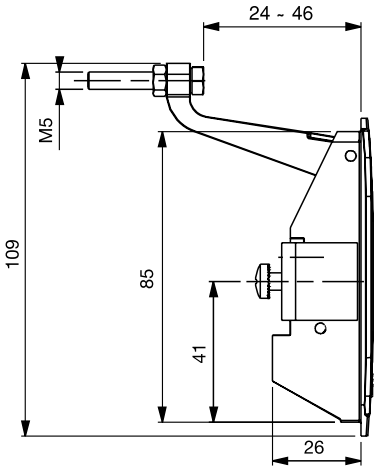


Cut-Out

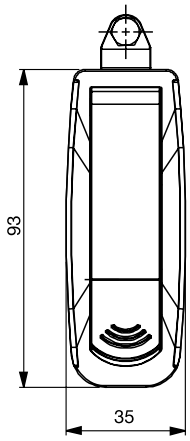


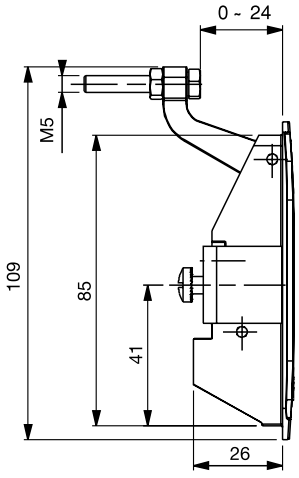
Version 1





Version 2





Specifications:
- Material:
  Body: Zinc Alloy
  Handle: Zinc Alloy
  Installation Bracket: Steel
- Finish: See Table
- Housing and Knob Compliant to DIN-EN 1774 (Zinc Alloy)
- Two keys supplied with every lock

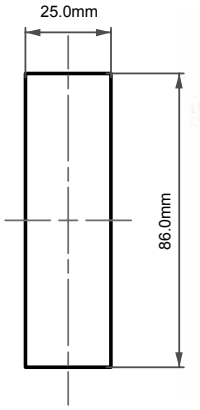
Features:
- Flush style trigger design
- Available with or without cylinders
- Suitable for 2mm door thickness (Maximum)

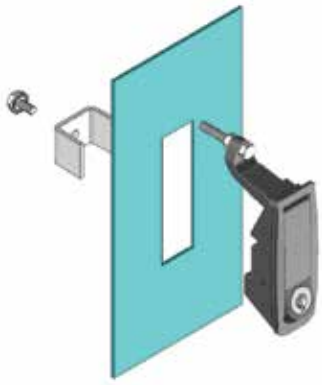
Item No.	Finish	Version	Grip Adjustment mm	Cylinder or Driver	Cylinder / Driver Description
0771100	Chrome Plated	1	24 - 46	Cylinder	No Cylinder
0772100	Chrome Plated	2	0 - 24	Cylinder	No Cylinder
0771200	Black Powder Coated	1	24 - 46	Cylinder	No Cylinder
0771201	Black Powder Coated	1	24 - 46	Cylinder	Keyed Alike
0771202	Black Powder Coated	1	24 - 46	Cylinder	Keyed to Differ
0771207	Black Powder Coated	1	24 - 46	Cylinder	CH751 (Stainless Steel Shutter)
0771242	Black Powder Coated	1	24 - 46	Driver	Slot (2 x 4mm)
0772200	Black Powder Coated	2	0 - 24	Cylinder	No Cylinder
0772201	Black Powder Coated	2	0 - 24	Cylinder	Keyed Alike
0772202	Black Powder Coated	2	0 - 24	Cylinder	Keyed to Differ
0772207	Black Powder Coated	2	0 - 24	Cylinder	CH751 (Stainless Steel Shutter)
0772242	Black Powder Coated	2	0 - 24	Driver	Slot (2 x 4mm)

COMPRESSION LATCHES

177 Series
Compression Latches / Off-Set Trigger Locks

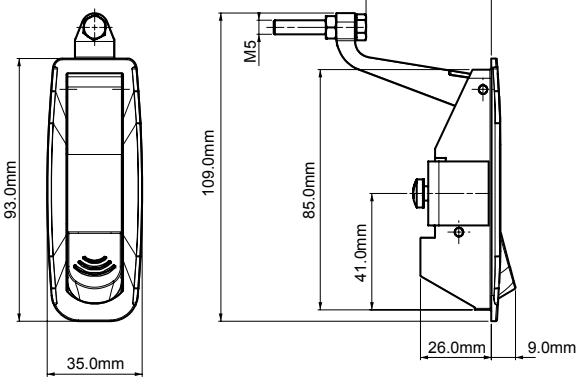
RoHS





Cut-Out

Version 1



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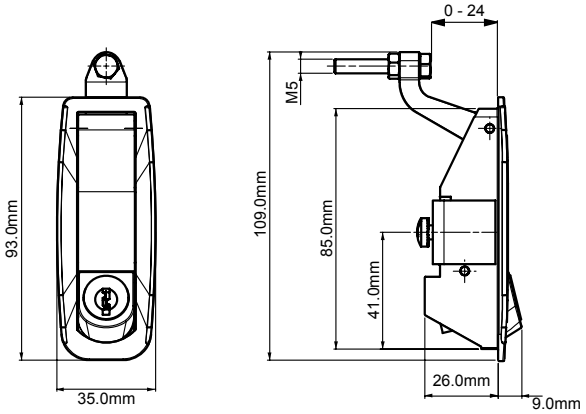

Specifications:
- Material:
  Body: Zinc Alloy
  Handle: Zinc Alloy
  Installation Bracket: Steel
- Finish: See Table
- Housing and Handle are DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Available with or without cylinders
- Suitable for 2mm door thickness (Maximum)

No Cylinder

With Key Cylinder

Item No.		Version	Grip Adjustment	Cylinder or Driver	Cylinder / Driver Description
Chrome Plated	Black Powder Coated				
1771100	1771200	1	24 - 46mm	Cylinder	No Cylinder
—	1771201	1	24 - 46mm	Cylinder	Keyed Alike
—	1771202	1	24 - 46mm	Cylinder	Keyed to Differ
—	1771207	1	24 - 46mm	Cylinder	CH751 (Stainless Steel Shutter)
—	1771242	1	24 - 46mm	Driver	Slot (2 x 4mm)
1772100	1772200	2	0 - 24mm	Cylinder	No Cylinder
—	1772201	2	0 - 24mm	Cylinder	Keyed Alike
—	1772202	2	0 - 24mm	Cylinder	Keyed to Differ
—	1772207	2	0 - 24mm	Cylinder	CH751 (Stainless Steel Shutter)
—	1772242	2	0 - 24mm	Driver	Slot (2 x 4mm)

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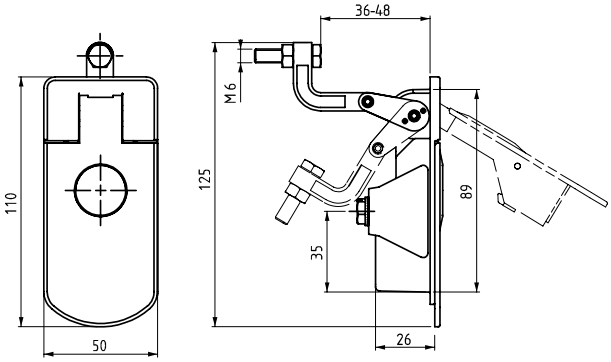
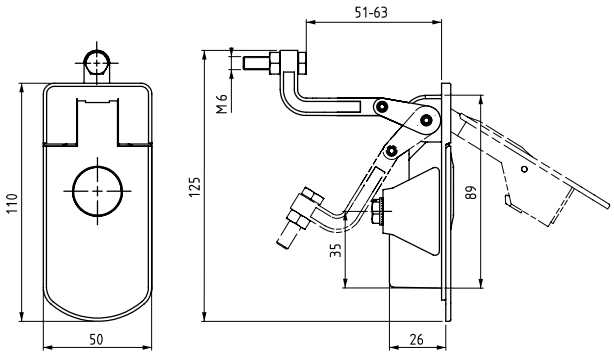
377 Series
Compression Latch - Adjustable Grip

Version 1

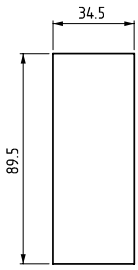


Version 2



Specifications:
- Material:
  Body: Zinc Alloy
  Handle: Zinc Alloy
  Fixing Bracket: Steel
  Dust Cap: Stainless Steel
- Finish: Black Powder Coated
- Latch is DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Available with or without cylinders
- Work with door/panel thickness up to 2mm
- Assemble lock with one fixing bracket
- Please contact Essentra for alternate Finish

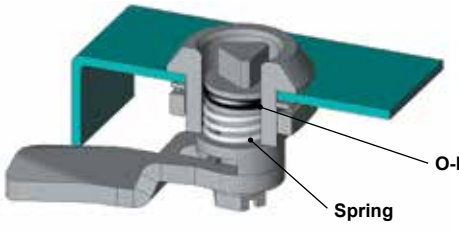


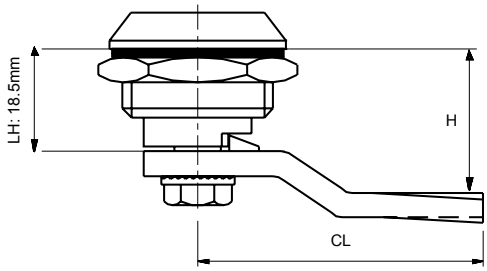
Cut-Out

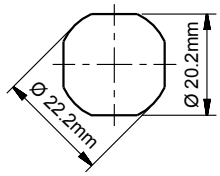
Item No.	Version	Cylinder Description
3771200	1	No Cylinder
3771203	1	Keyed Alike with Stainless Steel Shutter
3771232	1	Keyed Different with Stainless Steel Shutter
3771207	1	CH751 (Stainless Steel Shutter)
3772200	2	No Cylinder
3772203	2	Keyed Alike with Stainless Steel Shutter
3772232	2	Keyed Different with Stainless Steel Shutter
3772207	2	CH751 (Stainless Steel Shutter)

CAM LATCHES

060 Series
Spring Loaded Latches & Locks







Cut-Out

Specifications:
- Material: See Table
  Cam: Steel or Nylon
  Gasket: Rubber
- Finish: See Table
- Housing and driver is DIN-EN 1774 rated

Features:
- Internal spring provides tactile resistance
- Cam does not rotate beyond quarter turn due to stop lip
- Please contact Essentra for alternate drivers

CAMS SOLD SEPARATELY. SEE SEE PAGES 410 - 411.
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Driver Style					
13	15	28	37	38	42
3mm Double Bit	5mm Double Bit	8mm Square	7mm Triangle	8mm Triangle	2 x 4mm Slot

Driver Style				
52	61	68	88	97
Slot	10mm Hex Female	8mm Hex Female	Railway	11mm Hex Male

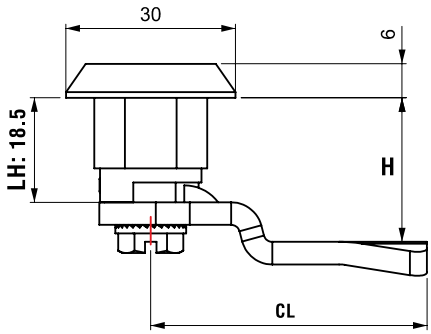
Item Number					
Zinc Alloy Chrome Plated	Zinc Alloy Black Powder Coated	Stainless Steel Natural	Nylon Black	Driver Style	Driver Description
060111300	**060121300**	**060401300**	**060201300**	13	3mm Double Bit
060111500	**060121500**	**060401500**	**060201500**	15	5mm Double Bit
060112800	**060122800**	**060402800**	**060202800**	28	8mm Square
060113700	—	—	—	37	7mm Triangle
060113800	**060123800**	**060403800**	**060203800**	38	8mm Triangle
060114200	**060124200**	—	**060204200**	42	2 x 4mm Slot
060115200	**060125200**	—	—	52	Slot
060116100	**060126100**	—	—	61	10mm Hex Female
060116800	**060126800**	—	—	68	8mm Hex Female
—	—	**060408800**	—	88	Railway
060119700	**060129700**	—	—	97	11mm Hex Male

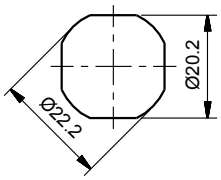
461 Series
Secure Quarter Turn Latches & Locks

RoHS

Key is removable at locked position

Key is not removable at open position, it works like a knob.





Cut-Out

Specifications:
- Material:
  Housing: Zinc Alloy
  Driver: Zinc Alloy
  Cam: Steel
  Gasket: Rubber
- Finish: Chrome Plated
- Housing and Driver are DIN-EN 1774 rated

Features:
- When lock is open the key functions as a knob
- Applicable Cams are with stoppers
- Latch includes Stainless Steel Shutter

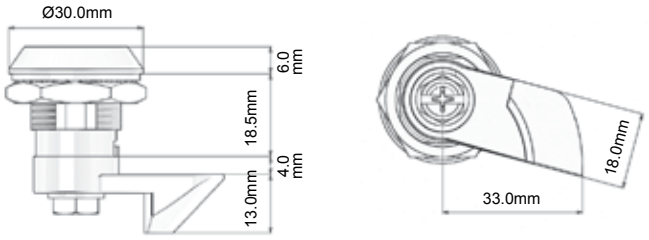
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Driver Style
15
5mm Double Bit

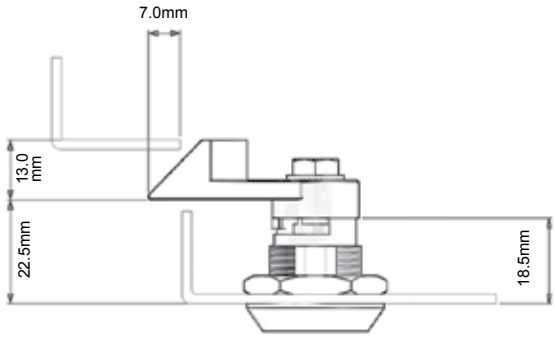
Item No.	Driver Style	Driver Description	Hand Operation
46111111500001	15	5mm Double Bit	Right Hand
46111111500002	15	5mm Double Bit	Left Hand

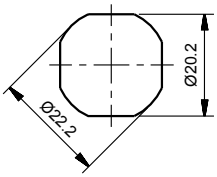
CAM LATCHES

160 Series
Quarter Turn Spring Cam Latch / Lock

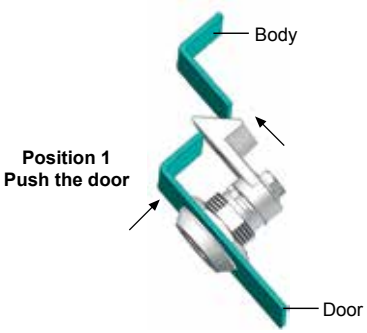


RoHS

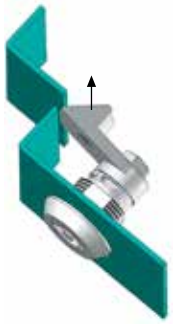




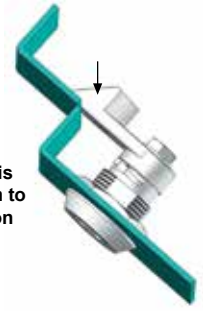
Cut-Out



Position 1
Push the door



Position 2
Cam will rotate free of frame



Position 3
When the cam is free, it will return to the lock position

Specifications:
- Material:
  Housing: Zinc Alloy
  Drivers: Zinc Alloy
  Gasket: Rubber
- Finish: See Table
- Housing and Driver are DIN-EN 1774 rated
- Spring loaded cam is included

Features:
- Spring-loaded cam provides push-to-close action
- Distance between inside of lock face and front of cam fixed at 22.5mm
- Cam included with latch
- Please contact Essentra for alternate driver options

FOR ALTERNATE DRIVERS SEE PAGE 416.
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Driver Style	
13	**15**
3mm Double Bit	5mm Double Bit

Item No.	Finish	Driver Style	Driver Description	Hand Operation
1601113001	**Chrome Plated**	**13**	3mm Double Bit	Right
1601113002	**Chrome Plated**	**13**	3mm Double Bit	Left
1601115001	**Chrome Plated**	**15**	5mm Double Bit	Right
1601115002	**Chrome Plated**	**15**	5mm Double Bit	Left
1601215001	**Black Powder Coated**	**15**	5mm Double Bit	Right
1601215002	**Black Powder Coated**	**15**	5mm Double Bit	Left

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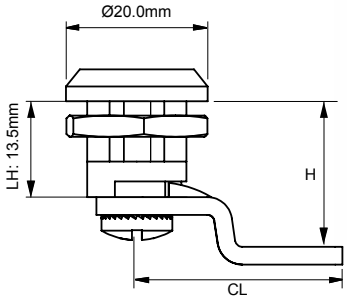
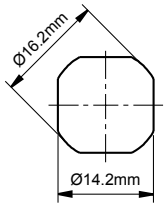
066 Series
Mini Quarter Turn Latches - Spring Loaded Locks





Specifications:
- Material:
  Housing: Zinc Alloy
  Driver: Zinc Alloy
  Cam: Steel
- Finish: See Table
- Housing and Driver are DIN-EN 1774 rated

Features:
- Specially designed internal spring provides 1mm tactile resistance
- Sealing washer NOT supplied, consult Essentra for IP rated latch/gasket
- Please contact Essentra for alternate drivers

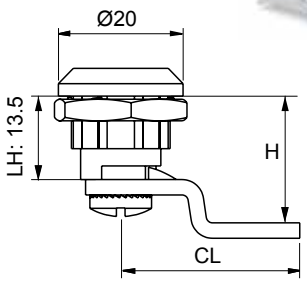
CAMS SOLD SEPARATELY. SEE PAGE 415.

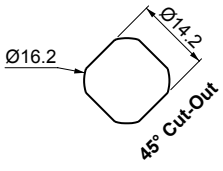
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418. **Cut-Out**

Driver Style		
26	37	42
6mm Square	7mm Triangle	2 x 4mm Slot

Item No.			
Chrome Plated	Black Powder Coated	Driver Style	Driver Description
066112600	066122600	26	6mm Square
066113700	066123700	37	7mm Triangle
066114200	066124200	42	2 x 4mm Slot

266 Series
Quarter Turn Latches - Spring Loaded Locks





Specifications:
- Material:
  Housing: Zinc Alloy
  Drivers: Zinc Alloy
  Cam: Steel
- Finish: See Table
- Housing and Driver are DIN-EN 1774 rated

Features:
- Internal spring provides 1mm tactile resistance
- Cam does not rotate beyond quarter turn due to stop lip
- Applicable Cams are with stoppers
- Please contact Essentra for IP rated Latch

FOR ALTERNATE DRIVERS SEE PAGE 416.

CAMS SOLD SEPARATELY. SEE PAGES 415.

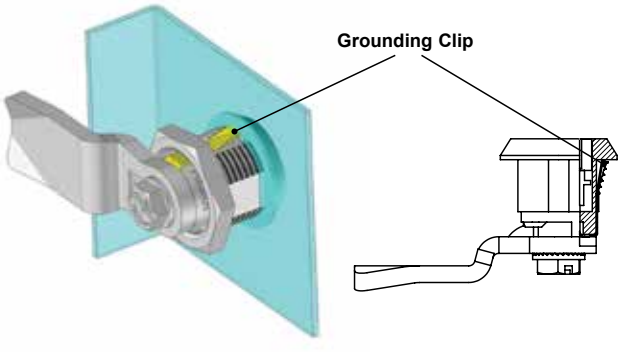
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Driver Style		
26	37	42
6mm Square	7mm Triangle	2 x 4mm Slot

Item No.			
Chrome Plated	Black Powder Coated	Driver Style	Driver Description
266112600	266122600	26	6mm Square
266113700	266123700	37	7mm Triangle
266114200	266124200	42	2 x 4mm Slot

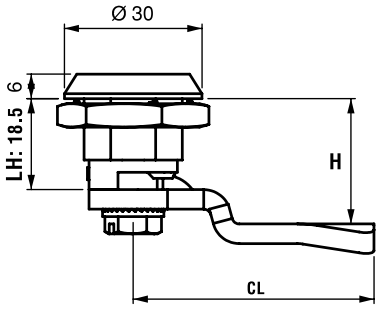
CAM LATCHES

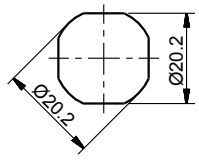
360 Series
Quarter Turn Latches - Spring Loaded Locks with Grounding Clip



Specifications:
- Material:
  Housing: Zinc Alloy
  Driver: Zinc Alloy
  Cam: Steel or Nylon
  Gasket: Rubber
  Grounding Clip: Stainless Steel
- Finish: See Table
- Housing and Driver are DIN-EN 1774 rated

Features:
- Internal spring provides tactile resistance
- CAM does not rotate beyond quarter turn due to stop lip
- Applicable Cams are with stoppers
- Special clip for grounding





Cut-Out

FOR ALTERNATE DRIVERS SEE PAGE 416.
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Driver Style					
13	15	28	37	38	42
3mm Double Bit	5mm Double Bit	8mm Square	7mm Triangle	8mm Triangle	2 x 4mm Slot

Item No.			
Chrome Plated	Black Powder Coated	Driver Style	Cylinder Description
360111300	**360121300**	13	3mm Double Bit
360111500	**360121500**	15	5mm Double Bit
360112800	**360122800**	28	8mm Square
360113700	**360123700**	37	7mm Triangle
360113800	**360123800**	38	8mm Triangle
360114200	**360124200**	42	2 x 4mm Slot

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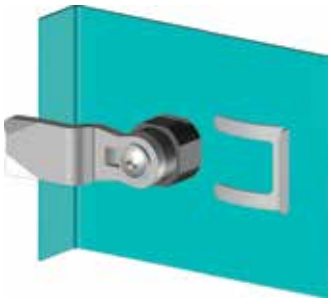
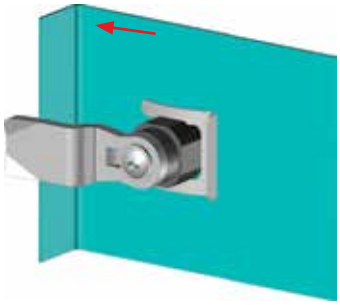
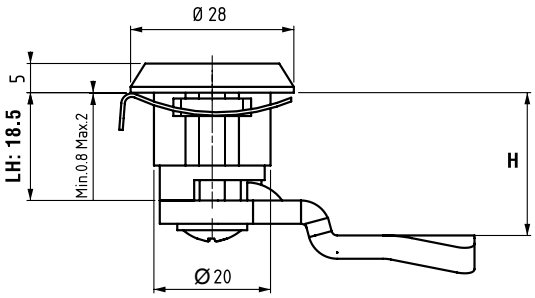
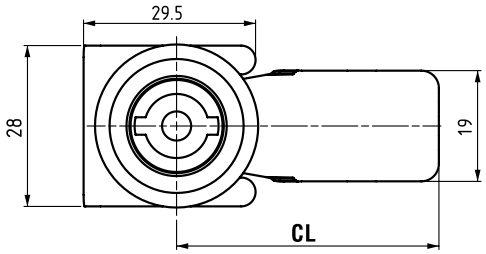
560 Series
Quarter Turn - Quick Installation Locks



Clip design allows for quick installation

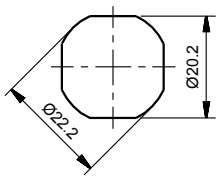






Specifications:
- Material:
  Housing: Nylon Black (PA6 30% GF)
  Driver: Nylon Black (PA6 30% GF)
- Housing and Driver Compliant to DIN-EN 1774

Features:
- Easy assembly by clips
- Specially designed internal spring provides tactile resistance
- Can be used for panel thickness 0.8-2.0mm



Cut-Out

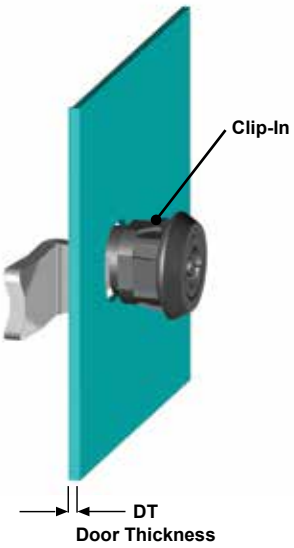
FOR ALTERNATE DRIVERS SEE PAGE 416.
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

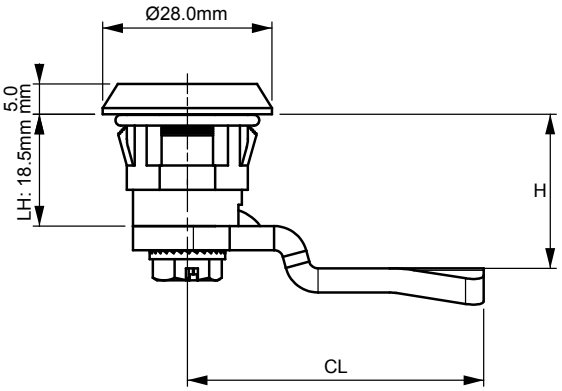
Driver Style			
15	**28**	**38**	**42**
5mm Double Bit	8mm Square	8mm Triangle	2 x 4mm Slot

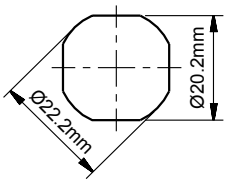
Item No.	Driver Style	Driver Description
56020201500	15	5mm Double Bit
56020202800	28	8mm Square
56020203800	38	8mm Triangular
56020204200	42	Slot (2 x 4)

CAM LATCHES

660 Series
Quarter Turn Latches - Easy Install Locks







Cut-Out

Specifications:
• Material:
Housing: Nylon Black (PA6 30% GF)
Driver Material: Nylon Black (PA6 30% GF)
Cam: Steel, Nylon

Features:
• Easy assembly by clips

FOR ALTERNATE DRIVERS SEE PAGE 416.
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Driver Style
42
2 x 4mm Slot

Item No.	Door Thickness (DT) mm	Driver Style	Driver Description
660120204200	0.8 - 1.2	42	2 x 4mm Slot
660220204200	1.2 - 1.5	42	2 x 4mm Slot

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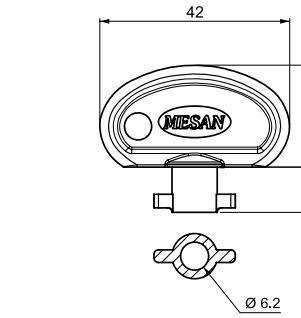
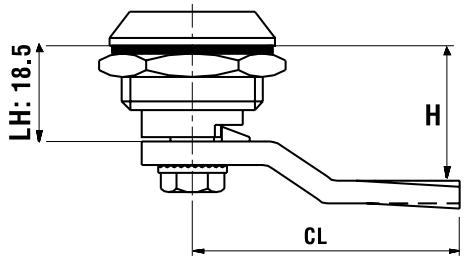
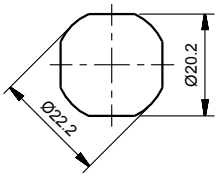
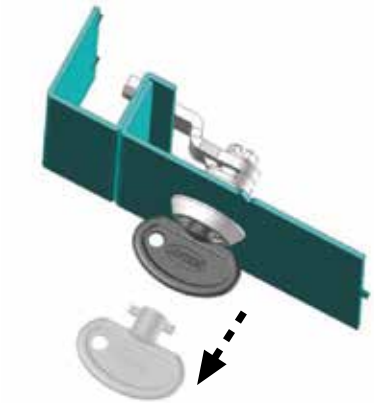
361 Series
Secure Quarter Turn Latches / Locks



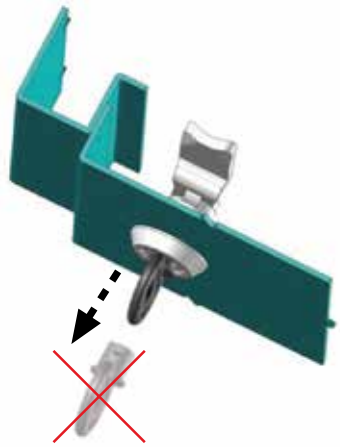




Cut-Out



Key is removable at locked position



Key is not removable at open position; it works like a knob

Specifications:
- Material:
  Housing: Zinc Alloy
  Driver: Zinc Alloy
  Gasket: Rubber
- Finish: See Table
- Housing is DIN-EN 1774 rated

Features:
- When lock is open the key functions as a knob
- Key is specific to latch and should be ordered at the same time, see table for Key Item No.
- Applicable Cams are with stoppers

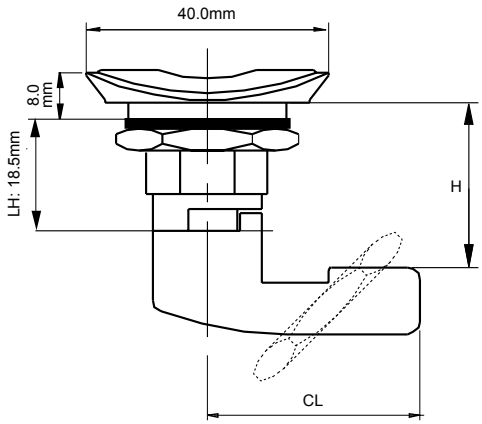
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

Round Spurred Lock Washer - Optional
- Item No. 060A3
- Ideal for round through hole Installation
- Ordered separately

Item No.	Finish	Driver Description	Key Item No.
3611100	Chrome Plated	Key is Driver	**16711**
3611200	Black Powder Coated	Key is Driver	**16712**

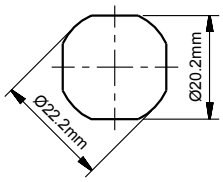
CAM LATCHES

161 Series
Plastic Knob Lock / Finger Grip Latch



Specifications:
- Material:
  Housing: See Table
  Driver: Zinc Alloy, Nylon (PA6 30% GF)
  Nut: Zinc Alloy, Nylon (PA6 30% GF)
  Cam: Steel, Nylon
- Finish: See Table
- Housing is DIN-EN 1043-1 rated

Features:
- Designed to act as a knob
- For special colors please contact Essentra
- Applicable CAMS are with stoppers



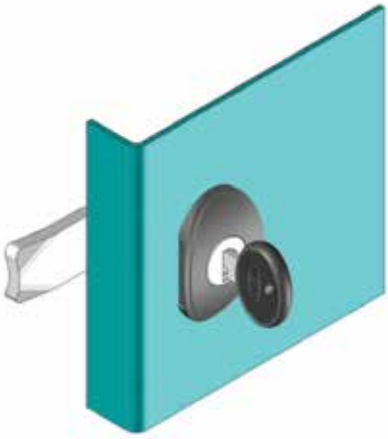
Cut-Out

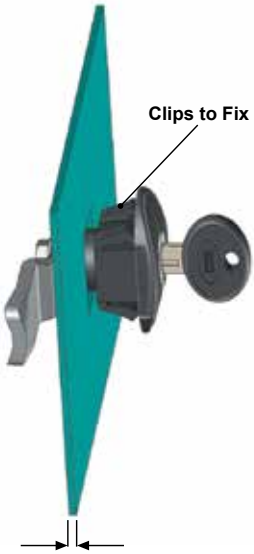
FOR ALTERNATE DRIVERS SEE PAGE 416.
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

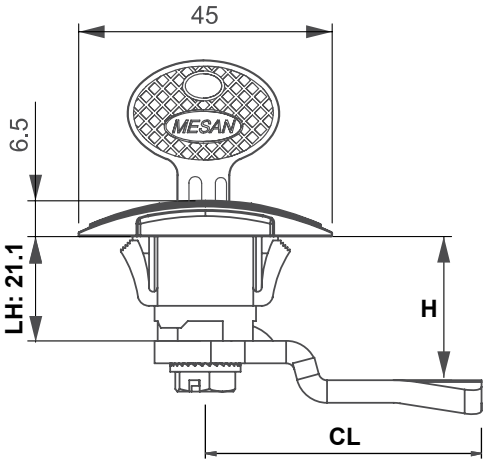
Driver Style		
13	15	42
3mm Double Bit	5mm Double Bit	2 x 4mm Slot

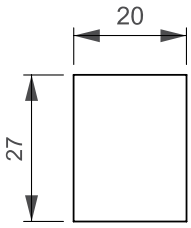
Item No.	Housing Material	Finish	Driver Style	Driver Description
16120201300	Nylon	Black	13	3mm Double Bit
16120201500	Nylon	Black	15	5mm Double Bit
16120124200	Zinc Alloy	Black Powder Coated	42	2 x 4mm Slot
16120204200	Nylon	Black	42	2 x 4mm Slot

261 Series
Plastic Knob Lock / Finger Grip Latch









Cut-Out

Specifications:
- Material:
  Housing: Nylon Black (PA6 30% GF)
  Cylinder: Zinc Alloy, Nylon Black (PA6 30% GF)
  Cam: Steel, Nylon
- Housing is DIN-EN 1043-1 rated

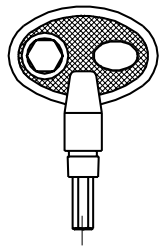
Features:
- Clip install for easy assembly
- Mounting nut not required
- Applicable CAMS are with stoppers
- Door Thickness 0.8mm Min - 1.8mm Max

FOR ALTERNATE DRIVERS SEE PAGE 416.
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

Item No.	Door Thickness (DT) mm	Cylinder Material	Cylinder Finish	Cylinder Description
261200300	0.8 - 1.8	Zinc Alloy	Black Powder Coated	Keyed Alike (Stainless Steel Shutter)
261203200	0.8 - 1.8	Nylon	Black	Keyed to Differ (Stainless Steel Shutter)
261200700	0.8 - 1.8	Nylon	Black	CH751 (Stainless Steel Shutter)

CAM LATCHES

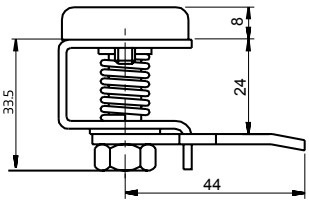
075 Series
Panel Lock with Hexagonal Head

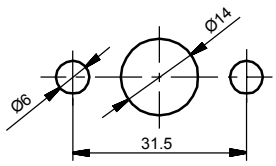


RoHS

Specifications:
- Material:
  Body: Steel
  Cam: Steel
  Cover: Nylon Black (PA6 30% GF)
- Housing and Driver are DIN-EN 1774 rated
- Cam included with Latch/Lock
- Allen Key sold separately, see table for details

Features:
- Application for panels and machinery covers





Cut-Out

Item No.	Hand Operation	Allen Key
075001	Right	**16966**
075002	Left	**16966**

260 Series
Quarter Turn - Padlockable Locks

Application 1

Application 2

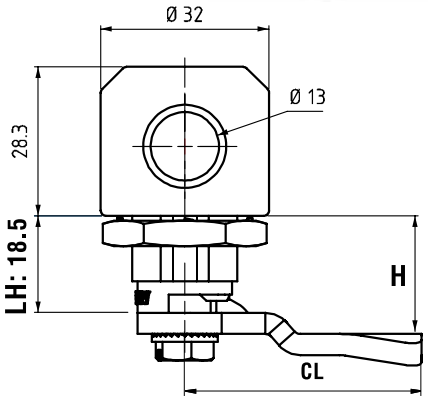
IP65

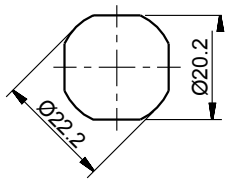
RoHS

Suitable for Left or Right Hand LH RH

Specifications:
- Material:
  Housing: Zinc Alloy
  Driver: Zinc Alloy
  Cam: Steel
  Gasket: Rubber
- Finish: See Table
- Housing and Driver are DIN-EN 1774 rated

Features:
- Padlockable
- Can be used with different drivers
- Applicable CAMS are with stoppers
- Please contact Essentra for alternate drivers





Cut-Out

FOR ALTERNATE DRIVERS SEE PAGE 416.

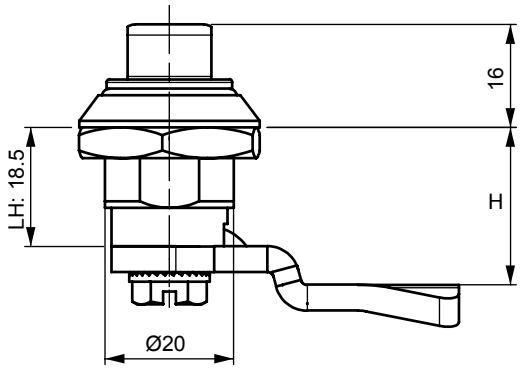
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

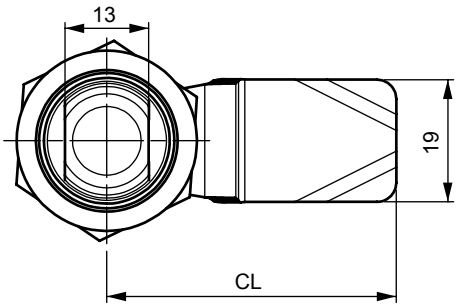
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

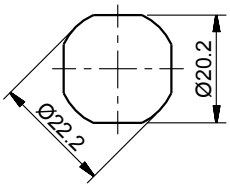
Driver Style		
15	**37**	**42**
5mm Double Bit	7mm Triangle	2 x 4mm Slot

Item No.			
Chrome Plated	**Black Powder Coated**	**Driver Style**	**Driver Description**
26011111500	**26012121500**	15	5mm Double Bit
26011113700	**26012123700**	37	7mm Triangular
26011114200	**26012124200**	42	Slot (2 x 4mm)

460 Series
Hygienic Latches & Locks







Cut-Out

Specifications:
- Material:
  Housing: Stainless Steel
  Driver: Stainless Steel
  Cam: Stainless Steel
  O-Ring: Silicone
- Finish: Natural

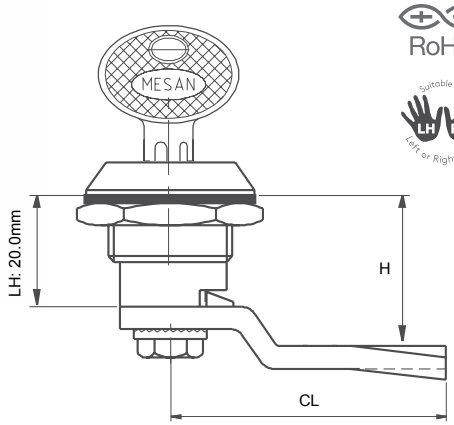
Features:
- Dirt resistant and easy to clean
- Specifically designed for hygiene requirements
- Key is specific to the lock and should be ordered at the same time, please see table for details
- Latch has been tested according to GS-NV 6:2015/12

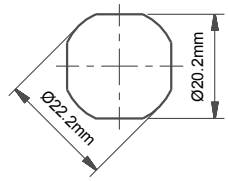
CAMS SOLD SEPARATELY. SEE PAGE 414.

Item No.	Metal Key
4604000	36894

CAM LATCHES

063 Series
Cylinder Cam Latches / Locks





Cut-Out

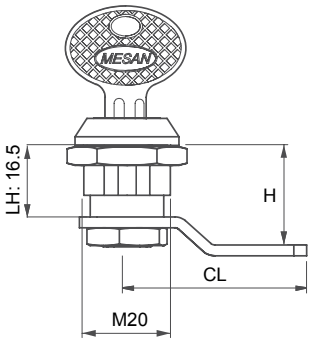
Specifications:
- Material:
  Housing: Zinc Alloy, Nylon Black (PA6 30% GF)
  Cam: Steel or Nylon
  Gasket: Rubber
- Finish: See Table
- Housing and Driver are DIN-EN 1774 rated
- Two Keys supplied with every lock
- Master Key is sold separately, see table for details

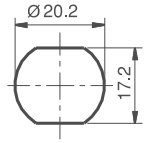
Features:
- Quarter turn operation
- Body Length 20mm
- Available in all die-cast Zinc Alloy or with Polyamide Housing

CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

Item No.			Cylinder Description	Master System Key Reference
Zinc Alloy Chrome Plated	Zinc Alloy Black Powder Coated	Nylon Black		
063110100	063120100	063200100	Keyed Alike	—
063110300	063120300	063200300	Keyed Alike with Stainless Steel Shutter	—
063110400	063120400	—	Master System Keyed Differ	30204041
063110700	—	—	CH751(Stainless Steel Shutter)	—
063113200	063123200	—	Keyed Differ with Stainless Steel Shutter	—

050 Series
Cam Latches & Locks





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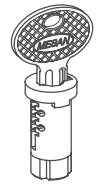
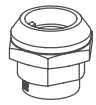
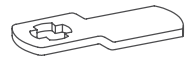






M 12 Nut

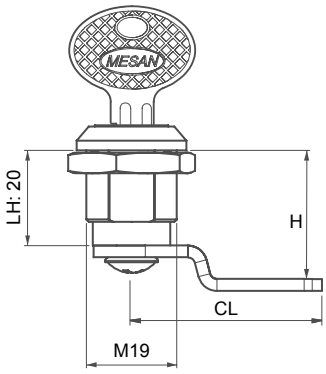
Specifications:
- Material:
  Housing: Zinc Alloy
  Cam: Steel
- Finish: Chrome Plated
- Housing is DIN-EN 1774 rated
- Two keys supplied with every lock

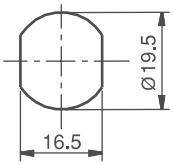
Features:
- Ideal for breifcase, steel doors and machinery covers
- Available in all die-cast zinc alloy or with polyamide housing
- Please contact Essentra for spring loaded cam version

CAMS SOLD SEPARATELY. SEE PAGE 415.

Item No.	Key Rotation Angle	Cylinder Description
05010300	180°	Stainless Steel Shutter (keyed alike)
05013200	180°	Stainless Steel Shutter (Keyed to Differ)
05020300	90°	Stainless Steel Shutter (keyed alike)
05023200	90°	Stainless Steel Shutter (Keyed to Differ)

250 Series
Cam Latches / Locks





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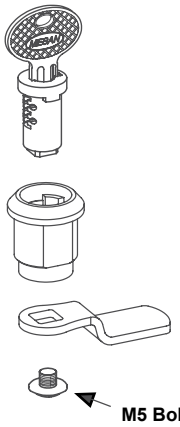


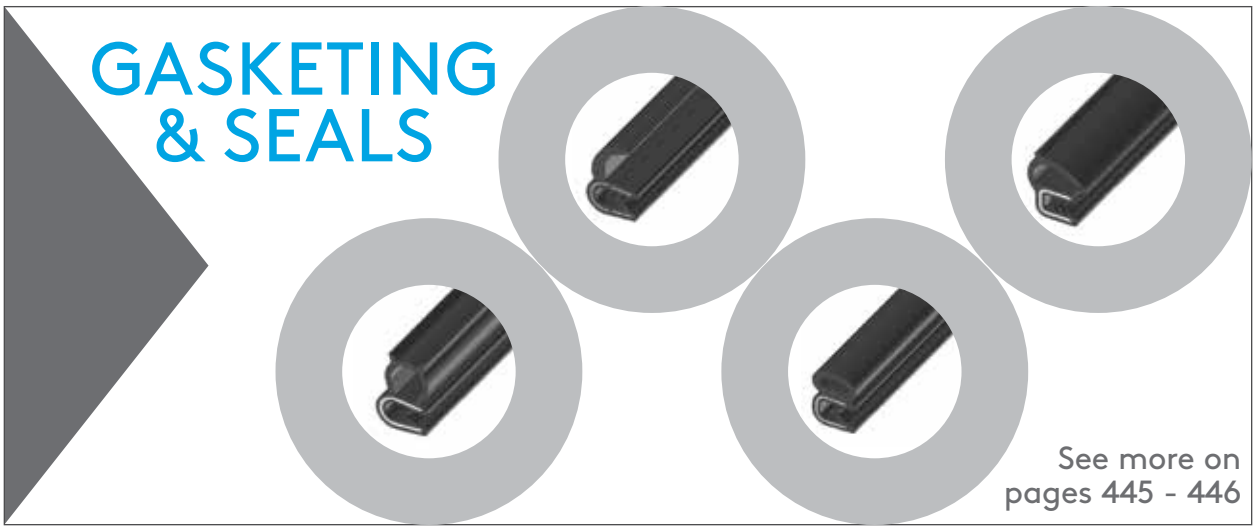
M5 Bolt

Specifications:
- Material:
  Housing: Zinc Alloy
  Cam: Steel
- Finish: Chrome Plated
- Housing is DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Ideal for steel doors and machinery covers
- 90° Key rotation

CAMS SOLD SEPARATELY. SEE PAGE 415.

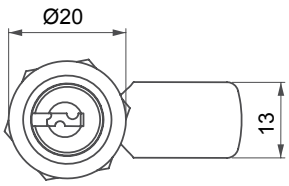
Item No.	Cylinder Description
250200300	Stainless Steel Shutter (Keyed Alike)
250203200	Stainless Steel Shutter (Keyed to Differ)

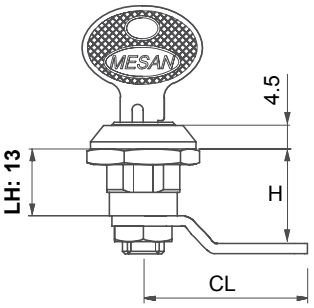


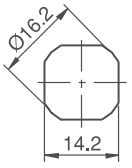
MINI CAM LATCHES

057 Series
Mini Cam Latches & Locks

Version 1







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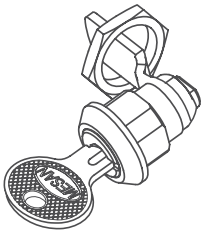
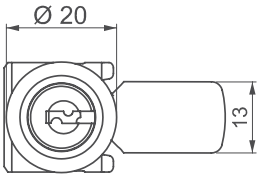
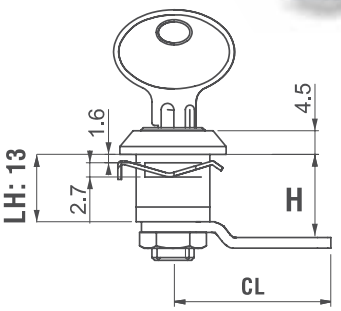
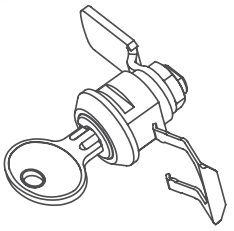


Installed by Nut

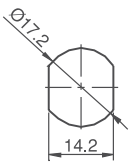
Version 3







Installed by Clips



Cut-Out

Specifications:
- Material:
  Housing: Zinc Alloy
  Cam: Steel
- Finish: Chrome Plated
- Housing is DIN-EN 1774 rated
- Two keys supplied with every lock

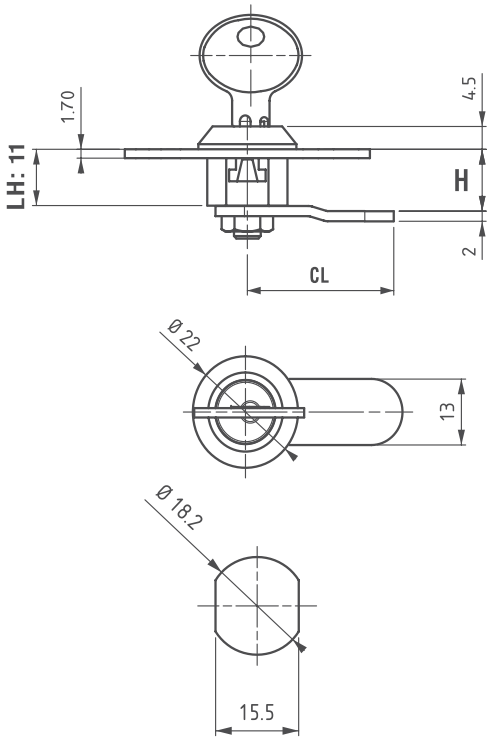
Features:
- Please Contact Essentra for Keyed to Differ version

CAMS SOLD SEPARATELY. SEE PAGE 415.

Item No.	Version	Cylinder Description
05710300	1	Keyed Alike
05730300	3	Keyed Alike

tel | 800 847 0486 fax | 866 561 6617

257 Series
Mini Cam Latches / Locks



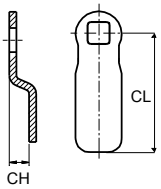
Cut-Out

Specifications:
- Material:
  Housing: Nylon, Black (PA6 30% GF)
  Cam: Steel
- Housing is DIN-EN ISO 1043-1 rated
- Two keys supplied with every lock

Features:
- Easy assembly with clips on housing
- 45° Key rotation

CAMS SOLD SEPARATELY. See Table >>

Cams Without Stoppers



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 2.4mm

Item No.	CH Height	CL Length	H Grip*
30403487	0	16	11
31403040	1	33	12
31403032	1	38	12
30403469	5	38	16
31403041**	6	30	17

***Grip is measured in latched position**
**** Hook Cam**

Item No.	Cylinder Description
2570300	Stainless Steel Shutter (Keyed Alike)
2573200	Stainless Steel Shutter (Keyed to Differ)

ESSENTIAL SOLUTIONS DELIVERED

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sales@essentracomponents.com

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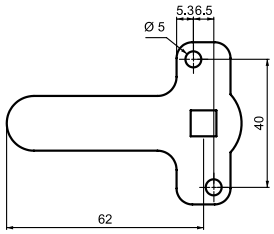
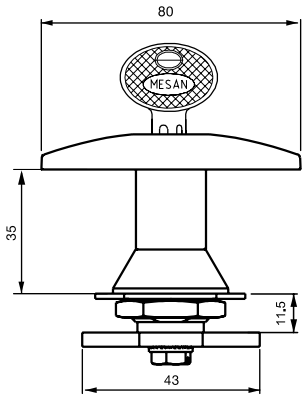
866 561 6617

'T' HANDLE CAM LATCHES

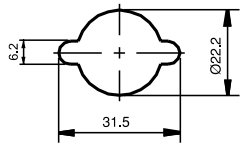
010 Series
'T' Handle Cabinet Latches





Specifications:
- Material: Zinc Alloy
- Finish: Chrome Plated
- Housing and cylinder are DIN-EN 1774 rated
- Cam included with latch
- Two keys supplied with every lock

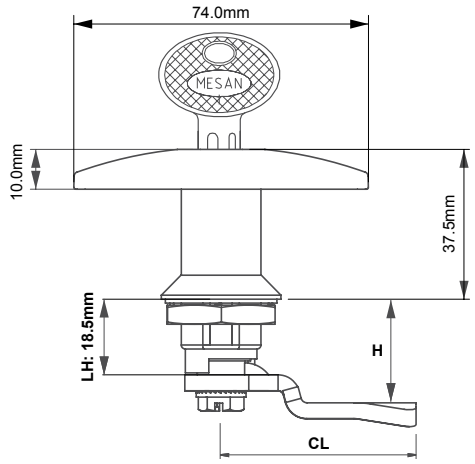
Features:
- Ideal for electrical panels and metal cabinets
- For alternate cylinders and finish, please contact Essentra for details
- For multi-point locking rods and accessories please contact Essentra for details



Cut-Out

Item No.	Cylinder Description	Hand Operation
0101102001	Keyed to Differ	Right
0101102002	Keyed to Differ	Left

110 Series
Cam Latches - 'T' Handle Locks

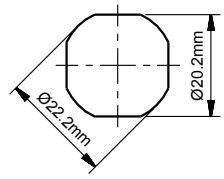


RoHS

Suitable for Left or Right Hand

Specifications:
- Material:
  Housing: See Table
  Handle: See Table
  Cam: Same as Housing, See Table
  Gasket: Rubber
- Housing and Driver are DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Quarter-turn operation
- For IP rated latch please contact Essentra for details



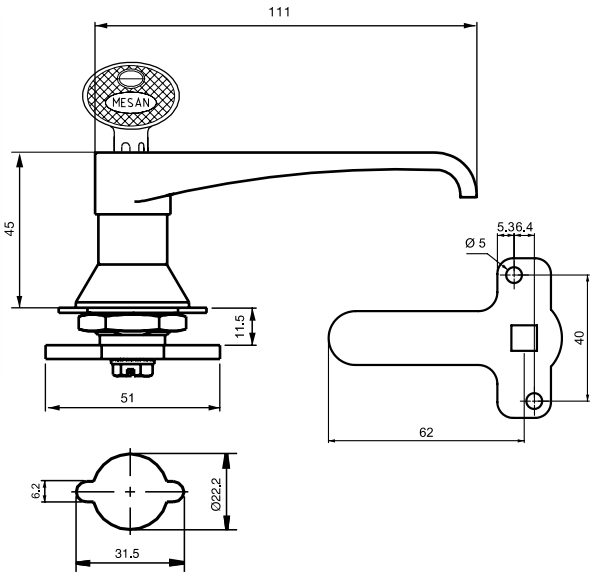
Cut-Out

⚠ **CAMS SOLD SEPARATELY. SEE PAGES 410-411, 414 (Stainless Steel only).**

Item No.				
Zinc Alloy Chrome Plated	Zinc Alloy Black Powder Coated	Nylon Black	Stanless Steel Natural	Cylinder Description
110110000	110120000	110200000	110400000	No Cylinder
110110100	110120100	110200100	—	Keyed Alike
110110200	110120200	—	—	Keyed to Differ
110110700	110120700	—	—	CH751

'L' HANDLE CAM LATCHES

011 Series
'L' Handle Cabinet Latches



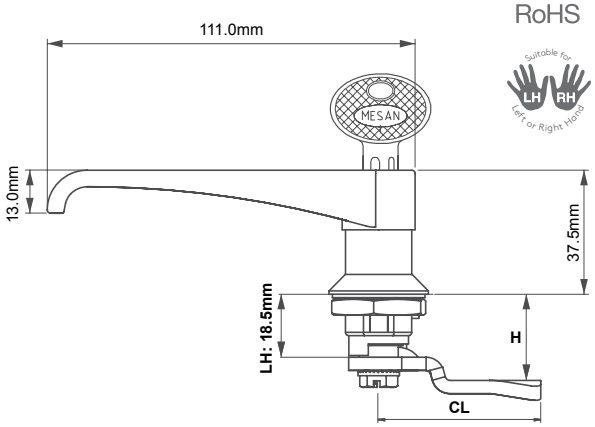
Cut-Out

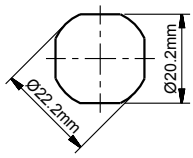
Specifications:
- Material: Zinc Alloy
- Finish: Chrome Plated
- Housing and cylinder are DIN-EN 1774 rated
- Cam included with latch
- Two keys supplied with every lock

Features:
- Ideal for electrical panels and metal document cabinets
- For alternate cylinders or finish, please contact Essentra for details
- For multi-point locking rods and accessories please contact Essentra for details

Item No.	Cylinder Description	Hand Operation
0111102001	Keyed to Differ	Right
0111102002	Keyed to Differ	Left

111 Series
Cam Latches - 'L' Handle Locks





Cut-Out

Specifications:
- Material:
  Housing: See Table
  Handle: Zinc Alloy, Stainless Steel, Nylon Black
  Cam: Same as Housing, See Table
  Gasket: Rubber
- Finish: See Table
- Housing and Driver are DIN-EN 1774 rated
- Two keys supplied with every lock

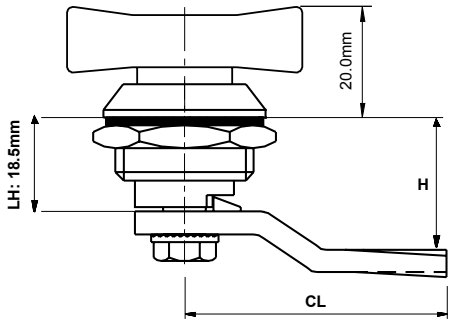
Features:
- Quarter-turn operation

CAMS SOLD SEPARATELY. SEE PAGES 410-411, 414 (Stainless Steel only).

Item No.				
Zinc Alloy Chrome Plated	Zinc Alloy Black Powder Coated	Nylon Black	Stainless Steel Natural	Cylinder Specifications:
111110000	111120000	111200000	111400000	No Cylinder
111110100	111120100	111200100	—	Keyed Alike
—	—	111200200	—	Keyed Differ
111110300	111120300	—	111400300	Stainless Steel Shutter (Keyed Alike)
111110700	111120700	—	111400700	CH751 (Stainless Steel Shutter)
111113200	111123200	—	111403200	Stainless Steel Shutter (Keyed to Differ)

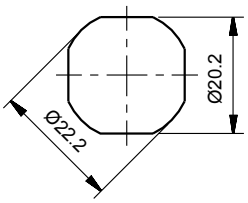
WING KNOB CAM LATCHES

062 Series
Quarter Turn Latches - Wing Knob Lock



Specifications:
- Material:
  Housing: See Table
  Knob: See Table
  Gasket: Rubber
- Finish: See Table
- Housing and Knob are DIN-EN 1774 rated

Features:
- Wing operates lock and serves as knob

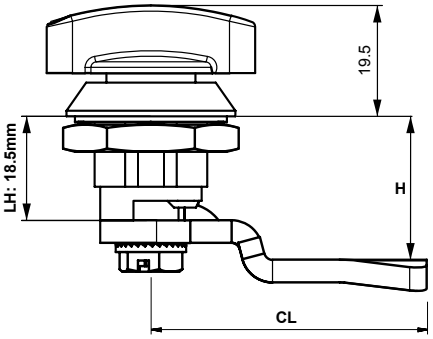


Cut-Out

CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

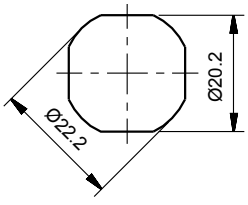
Item No.	Material	Finish
0621100	Zinc Alloy	Chrome Plated
0621200	Zinc Alloy	Black Powder Coated
0622000	Nylon	Black

362 Series
Quarter Turn Latches - Wing Knob Locks



Specifications:
- Material:
  Housing: See Table
  Knob: See Table
  Gasket: Rubber
- Finish: See Table
- Housing and Knob are DIN-EN 1774 rated

Features:
- Wing operates lock and serves as knob



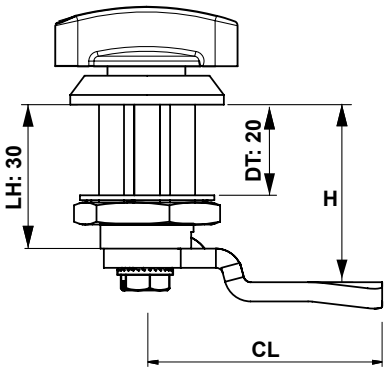
Cut-Out

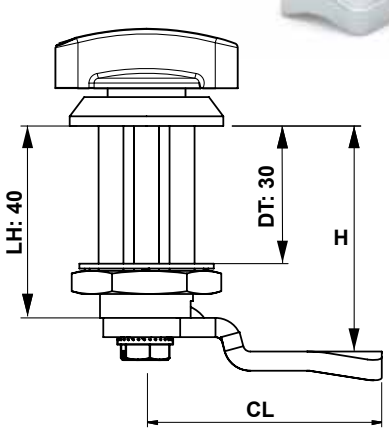
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

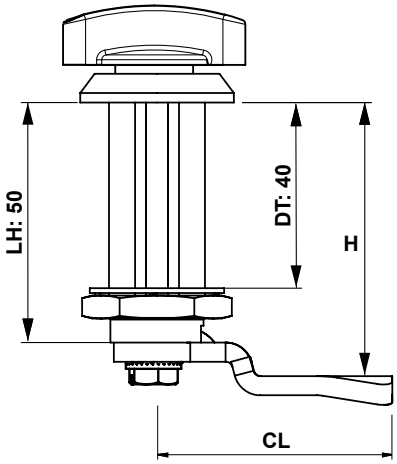
Item No.	Material	Finish
3621100	Zinc Alloy	Chrome Plated
3621200	Zinc Alloy	Black Powder Coated
3622000	Nylon	Black

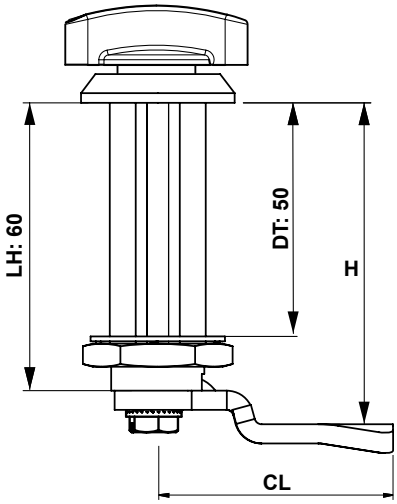
WING KNOB CAM LATCHES

064 Series
Quarter Turn Latches - Long Housing Wing Knob Locks









Specifications:
- Material:
  Housing: Zinc Alloy
  Driver: Zinc Alloy
  Cam: Steel
  Gasket: Rubber
- Finish: See Table
- Housing and handle are DIN-EN 1774 rated

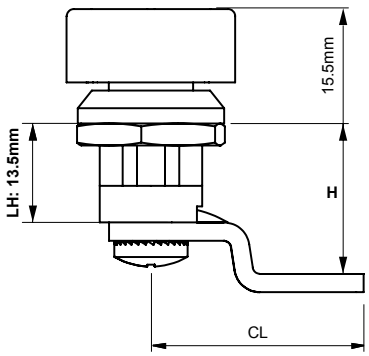
Features:
- Ideal for sound-proof or isolated doors

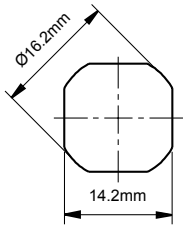
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

Item No.		Door Thickness
Chrome Plated	Black Powder Coated	mm
064362201100	064362201200	20
064362301100	064362301200	30
064362401100	064362401200	40
064362501100	064362501200	50

MINI CAM LATCHES

166 Series
Mini Quarter Turn Latches - Wing Knob Locks





Cut-Out

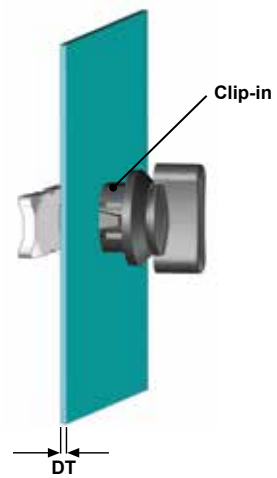
Specifications:
- Material:
  Housing: See Table
  Knob: See Table
- Finish: See Table
- Housing and Knob are DIN-EN 1774 rated

Features:
- Wing operates lock and serves as knob
- Sealing washer not included

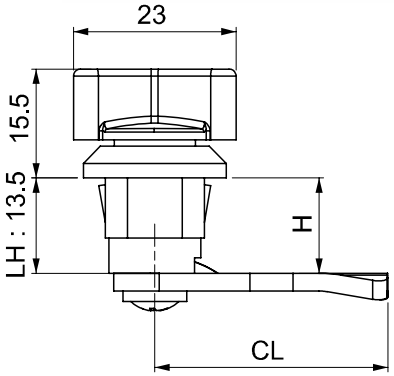
CAMS SOLD SEPARATELY. SEE PAGE 415.

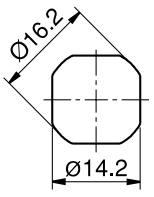
Item No.	Material	Finish
1661100	Zinc Alloy	Chrome Plated
1661200	Zinc Plated	Black Powder Coated
1662000	Nylon	Black

566 Series
Mini Quarter Turn Latches - Easy Install Locks



Door Thickness : 0.8mm - 1.5mm





Cut-Out

Specifications:
- Material:
  Housing: Nylon Black (PA6 30% GF)
  Knob: Nylon Black (PA6 30% GF)
  Driver: Nylon Black (PA6 30% GF)

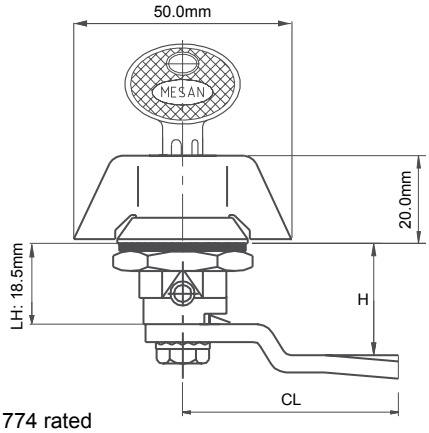
Features:
- Easy assembly by clips
- Specially designed internal spring provides 1mm tactile resistance

CAMS SOLD SEPARATELY. SEE PAGE 415.

Item No.
5661202000

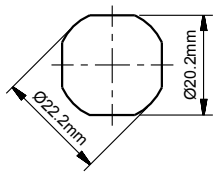
WING KNOB CAM LATCHES

065 Series
Cam Latches - Wing Knob Locks



Specifications:
- Material: See Table
  Gasket: Rubber
  Housing: Zinc Alloy
- Finish: See Table
- Housing and Driver are DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Quarter turn operation
- For alternate cylinders, please contact Essentra for details

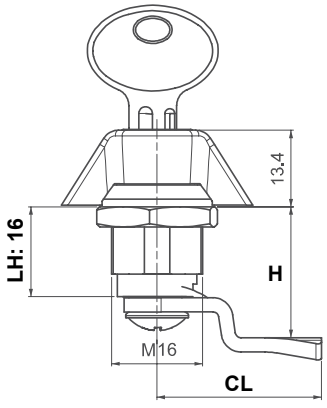


Cut-Out

CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

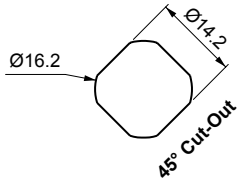
Item No.				
Zinc Alloy Chrome Plated	Zinc Alloy Black Powder Coated	Nylon Black	Stainless Steel Natural	Cylinder Description
065110000	065120000	065200000	065400000	No Cylinder
065110300	065120300	065200300	—	Stainless Steel Shutter (Keyed Alike)
065110700	065120700	065200700	—	CH751 (Stainless Steel Shutter)

165 Series
Mini Cam Latches - Wing Knob Locks



Specifications:
- Material:
  Housing: Zinc Alloy
  Cam: Zinc Alloy
  Gasket: Rubber
- Finish: See Table
- Housing is DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Wing operates lock and serves as knob
- Suitable for small enclosures
- For alternate cylinders, please contact Essentra for details

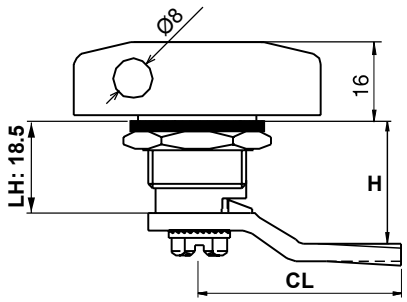


CAMS SOLD SEPARATELY. SEE PAGE 415.

Item No.	Finish	Cylinder Description
165110300	Chrome Plated	Stainless Steel Shutter (Keyed Alike)
165113200	Chrome Plated	Stainless Steel Shutter (Keyed is different)
165120300	Black Powder Coated	Stainless Steel Shutter (Keyed Alike)
165123200	Black Powder Coated	Stainless Steel Shutter (Keyed is different)

CAM LATCHES

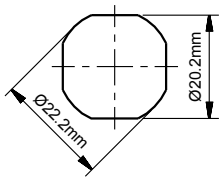
262 Series
Quarter Turn Latches - Padlock Wing Knob Locks



RoHS

Specifications:
- Material:
  Housing: Zinc Alloy
  Knob: Zinc Alloy
  Cam: Steel
- Finish: See Table
- Housing and Knob are DIN-EN 1774 rated

Features:
- Padlockable wing knob
- Maximum shackle diameter 6mm

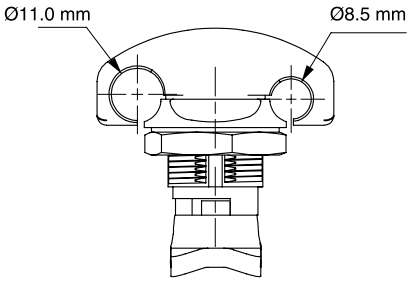


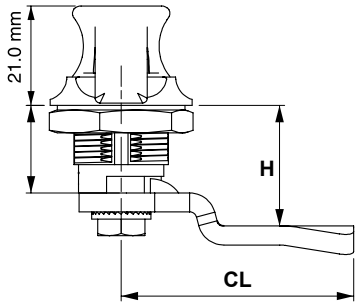
Cut-Out

CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

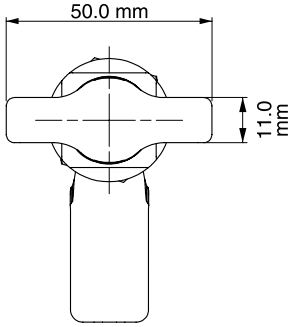
Item No.		
Chrome Plated	Black Powder Coated	Hand Operation
262100001	262200001	Right
262100002	262200002	Left

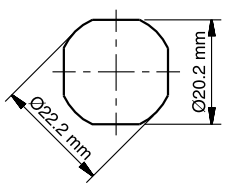
562 Series
Quarter Turn Latches - Padlock Wing Knob Locks





RoHS





Cut Out

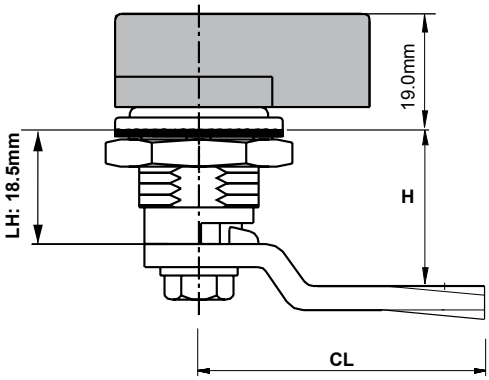
Specifications:
- Material:
  Housing: Zinc Alloy
  Knob: Zinc Alloy
- Finish: See Table
- Housing and Knob are DIN-EN 1774 rated

Features:
- Padlockable wing knob
- Maximum shackle diameter is 10mm for 11mm hole
- Maximum shackle diameter is 6mm for 8.5mm hole

CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

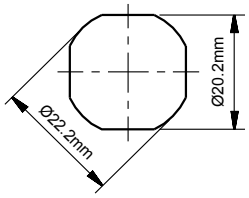
Item Number	Finish
562100	Chrome Plated
562200	Black Powder Coated

162 Series
Quarter Turn Latches - Lever Lock



Specifications:
- Material:
  Housing: Zinc Alloy
  Knob: Nylon (PA6 30% GF)
  Gasket: Rubber
- Housing is DIN-EN 1774 rated

Features:
- Paco type knob



Cut-Out

CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

Item No.
16200M

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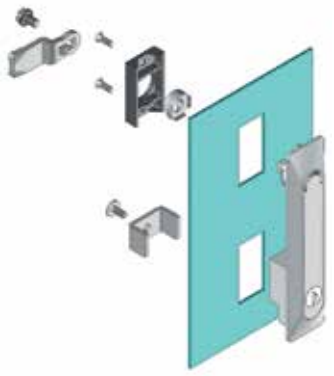
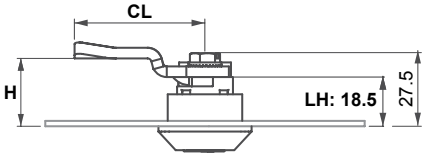
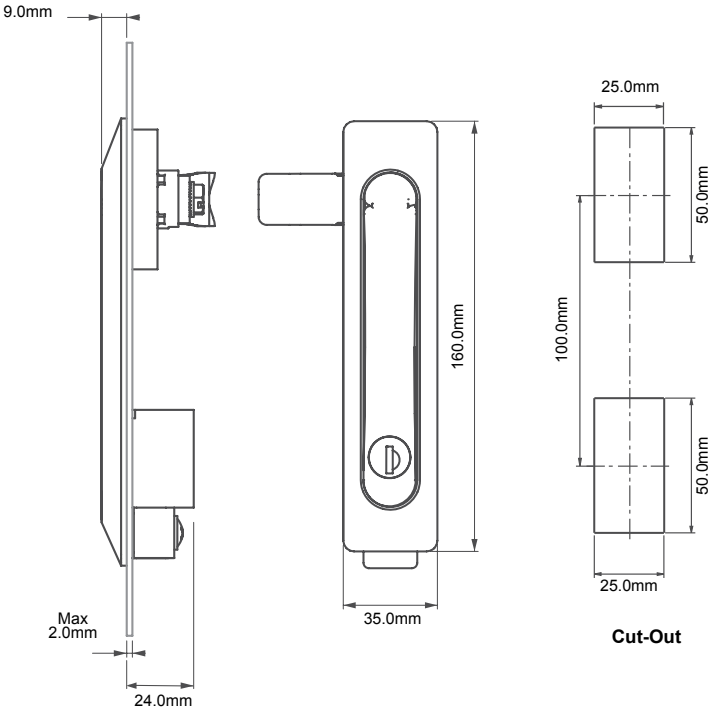
SWINGHANDLES

108 Series
Swinghandle Latches / Locks







Cut-Out

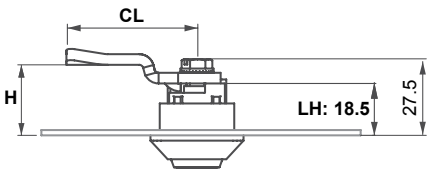
Specifications:
- Material:
  Body: Zinc Alloy, Nylon (PA6 30% GF)
  Handle: See Table
  Finish: See Table
  Seal: Polyeurethane
- Housing and Knob are DIN-EN 1774 rated
- Two keys supplied with every lock

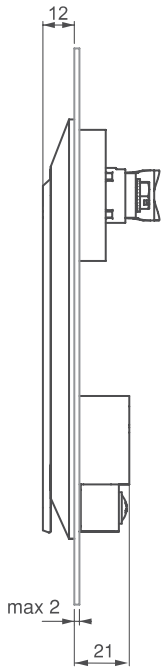
Features:
- Spring-loaded, slam action swing handle
- For customized colors please contact Essentra

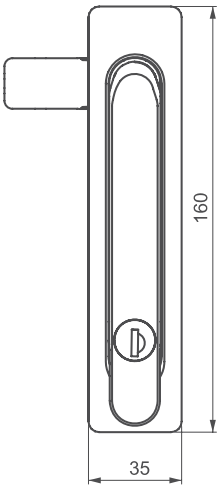
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

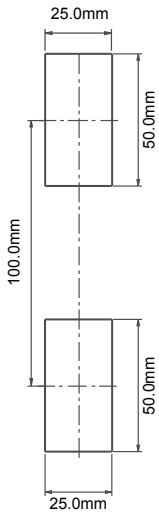
Item No.	Body Material	Body Finish	Handle Material	Handle Finish	Cylinder Description
108220300	Nylon	Black	Zinc Alloy	Black Powder Coated	Stainless Steel Shutter (Keyed Alike)
108223200	Nylon	Black	Zinc Alloy	Black Powder Coated	Stainless Steel Shutter (Keyed to Differ)
10811110300	Zinc Alloy	Chrome plated	Zinc Alloy	Chrome plated	Stainless Steel Shutter (Keyed Alike)
10811110700	Zinc Alloy	Chrome plated	Zinc Alloy	Chrome plated	CH751 (Stainless Steel Shutter)
10811113200	Zinc Alloy	Chrome plated	Zinc Alloy	Chrome plated	Stainless Steel Shutter (Keyed to Differ)
10812120300	Zinc Alloy	Black Powder Coated	Zinc Alloy	Black Powder Coated	Stainless Steel Shutter (Keyed Alike)
10812120700	Zinc Alloy	Black Powder Coated	Zinc Alloy	Black Powder Coated	CH751 (Stainless Steel Shutter)
10812123200	Zinc Alloy	Black Powder Coated	Zinc Alloy	Black Powder Coated	Stainless Steel Shutter (Keyed to Differ)

208 Series
Swinghandle Latches / Locks









Cut-Out

Specifications:
- Material: See Table
- Finish: See Table
- Seal: Polyeurethane
- Zinc Alloy is DIN-EN 1774 rated
- Nylon is DIN-EN ISO 1043-1 rated
- Two keys supplied with every lock

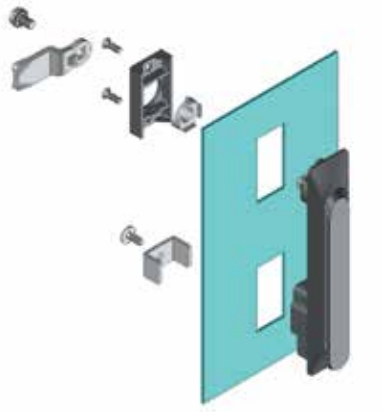
Features:
- Key can be removed at unlocked position

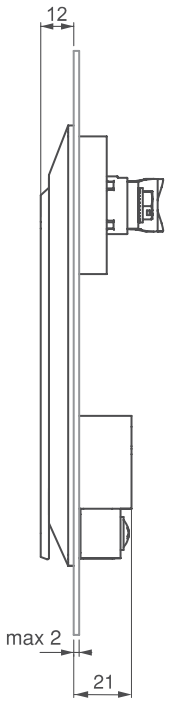
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

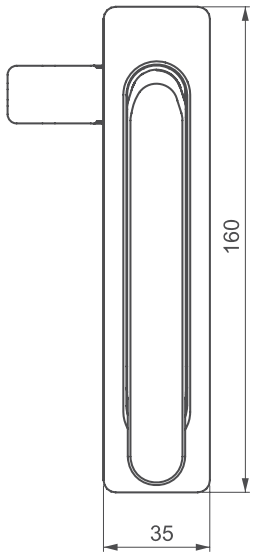
Item No.	Body / Handle Material	Finish	Cylinder Description
208110300	Zinc Alloy	Chrome plated	Stainless Steel Shutter (Keyed Alike)
208110700	Zinc Alloy	Chrome plated	CH751 (Stainless Steel Shutter)
208113200	Zinc Alloy	Chrome plated	Stainless Steel Shutter (Keyed is Different)
2081103001	Zinc Alloy	Chrome plated	Stainless Steel Shutter (Keyed Alike) w/Padlock
208120300	Zinc Alloy	Black Powder Coated	Stainless Steel Shutter (Keyed Alike)
208123200	Zinc Alloy	Black Powder Coated	Stainless Steel Shutter (Keyed is Different)
2081203001	Zinc Alloy	Black Powder Coated	Stainless Steel Shutter (Keyed Alike) w/Padlock
208200300	Nylon	Black	Stainless Steel Shutter (Keyed Alike)
208200700	Nylon	Black	CH751 (Stainless Steel Shutter)
208203200	Nylon	Black	Stainless Steel Shutter (Keyed is Different)

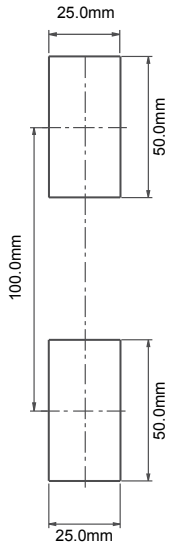
SWINGHANDLES

218 Series
Swinghandle Latches / Locks

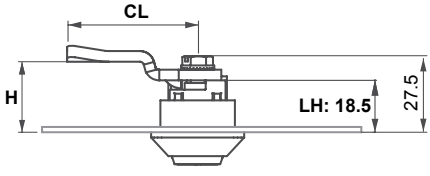








Cut-Out



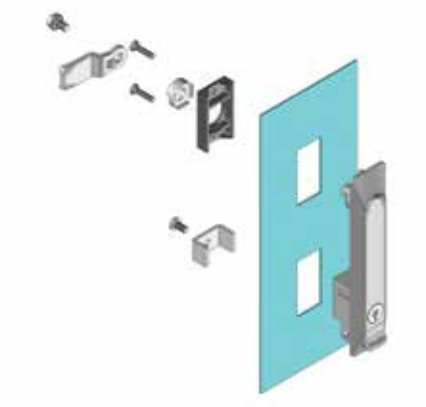
Specifications:
- Material: See Table
  Seal: Polyeurethane
- Finish: See Table
- Nylon is DIN-EN ISO 1043-1 rated

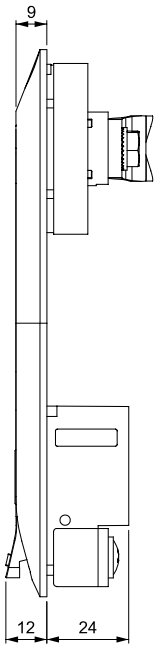
Features:
- Concealed special cam on the handle provides ease of installation
- Ideal for both indoor and outdoor applications

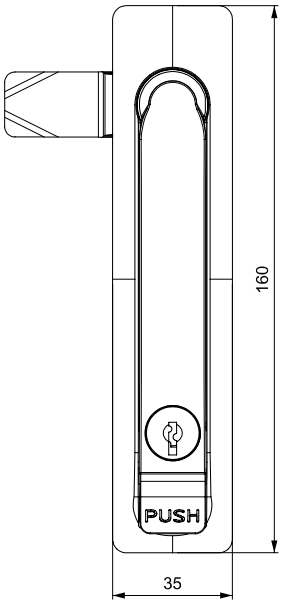
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

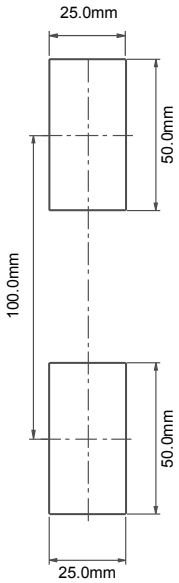
Item No.	Material	Finish/Color
2181100	Zinc Alloy	Chrome Plated
2181200	Zinc Alloy	Black Powder Coated
2182000	Nylon	Black

908 Series
Swinghandle Latch



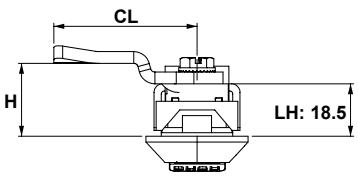






Cut-Out

Specifications:
- Material:
  Base: Zinc Alloy
  Body: Zinc Alloy
  Handle: Zinc Alloy
  Seal: Polyeurethane
  Dust Cap: Stainless Steel
- Finish:
  Base: Black Powder Coated
  Handle: Chrome Plated
- Zinc Alloy is DIN-EN 1774 rated
- Two keys supplied with every lock



Features:
- Swinghandle with push button
- Ultra low external profile
- For alternate cylinders, high security options, please contact Essentra for details

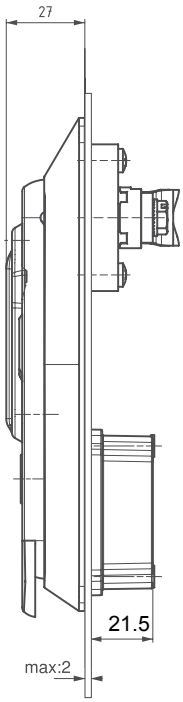
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

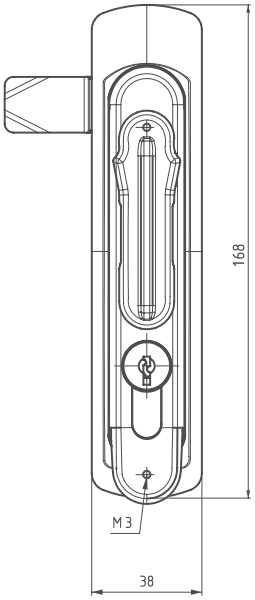
Item No.	Cylinder Description
90812110000	No Cylinder
90812110300	Keyed Alike with Shutter
90812113200	Keyed Different with Shutter
90812110700	CH751 (Stainless Steel Shutter)

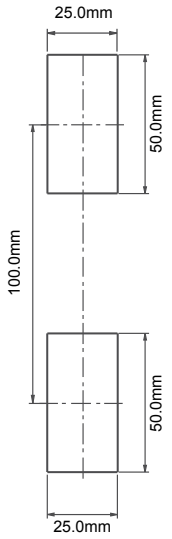
SWINGHANDLES

601 Series
Swinghandle Latch

Pad Lock Version



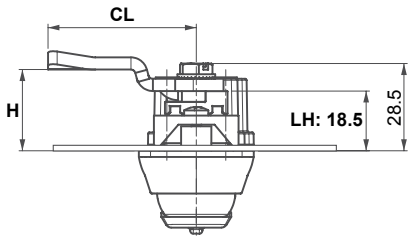




Cut-Out

Specifications:
- Material:
  Body: Zinc Alloy
  Handle: Zinc Alloy
  Cover: Zinc Alloy
  Seal: Polyeurethane
  Dust Cap: Stainless Steel
- Finish: See Table
- Zinc Alloy is DIN-EN 1774 rated
- Two keys supplied with every lock

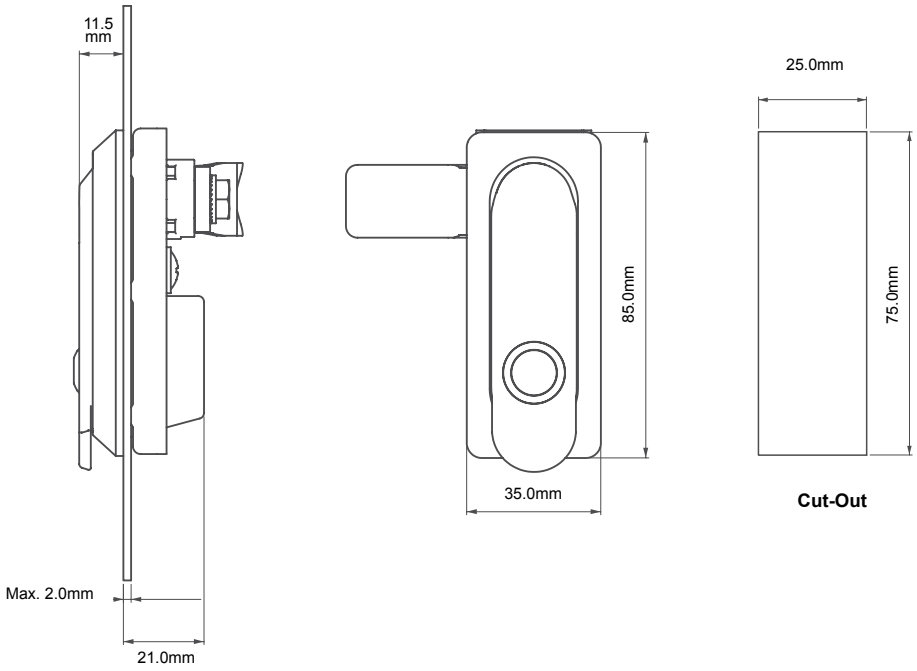
Features:
- All-Metal construction
- Improved corrosion resistance
- For alternate or high security cylinders, please contact Essentra for details



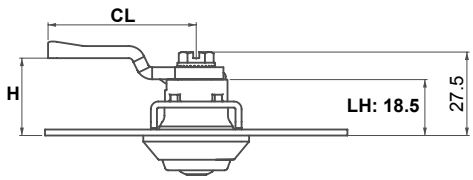
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

Item No.	Finish	Cylinder Description
60111110300	Chrome Plated	Keyed Alike (Stainless Steel Shutter)
60111110700	Chrome Plated	CH751 (Stainless Steel Shutter)
60111113200	Chrome Plated	Keyed Different (Stainless Steel Shutter)
601111103001	Chrome Plated	Keyed Alike (Stainless Steel Shutter) w/Padlock
60112120300	Black Powder Coated	Keyed Alike (Stainless Steel Shutter)
60112120700	Black Powder Coated	CH751 (Stainless Steel Shutter)
60112123200	Black Powder Coated	Keyed Different (Stainless Steel Shutter)
601121203001	Black Powder Coated	Keyed Alike (Stainless Steel Shutter) w/Padlock

708 Series
Push Button Swinghandle Latch



Specifications:
- Material:
  Body: Nylon Black (PA6 30% GF)
  Handle: Nylon Black (PA6 30% GF)
  Button: Zinc Alloy
  Seal: Polyurethane inside perimeter groove
- Finish: See Table
- Nylon is DIN-EN ISO 1043-1 rated
- Zinc Alloy compliant to DIN-EN 1774



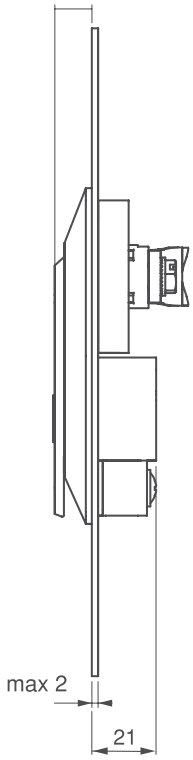
Features:
- Operates by push-button
- Ideal for electric panels, machinery covers and rack enclosures

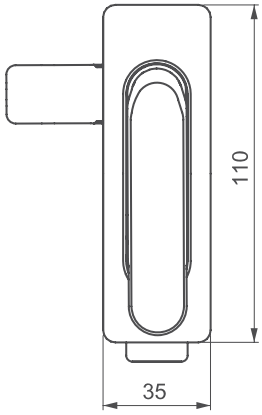
CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

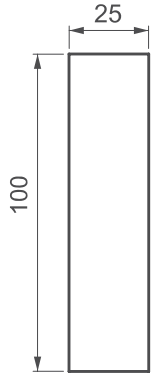
Item No.	Button Finish
708201100	Chrome Plated
708201200	Black Powder Coated

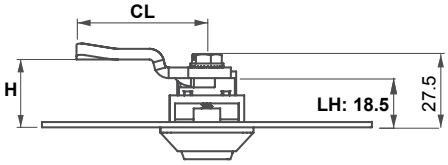
SWINGHANDLES

318 Series
Small Swinghandle Latches









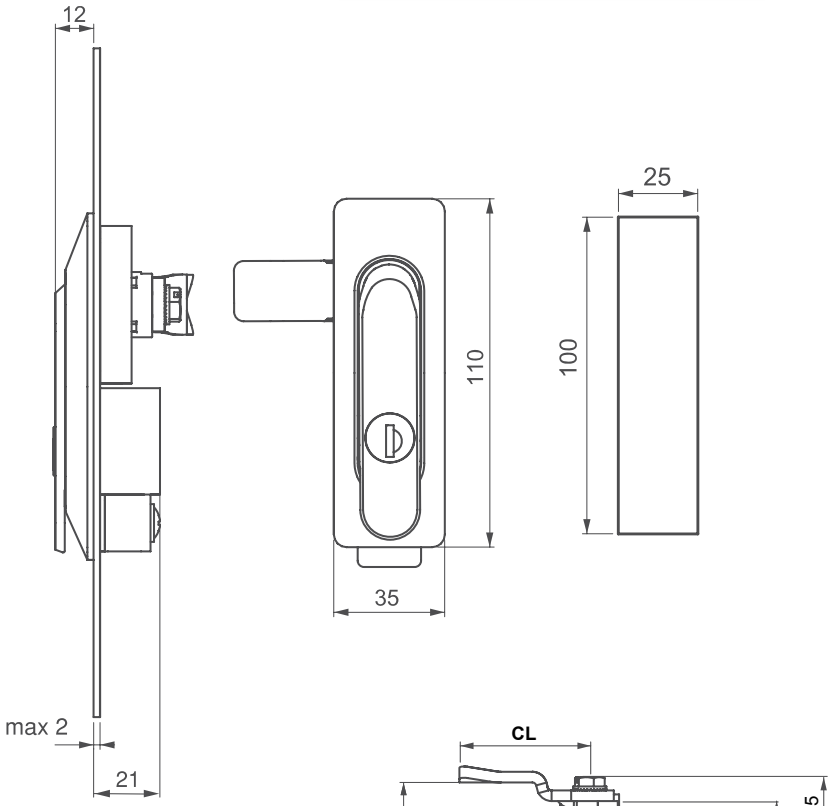
Specifications:
- Material: See Table
- Finish: See Table
- Nylon is DIN EN / ISO 1043 rated

Features:
- Ideal for both indoor and outdoor applications

CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

Item No.	Material	Finish
31811200	Zinc Alloy	Chrome Plated
31812200	Zinc Alloy	Black Powder Coated
31820200	Nylon	Black

308 Series
Small Swinghandle Latches



Specifications:
- Material:
  Body: Nylon (PA6 30% GF)
  Handle: See Table
  Seal: Polyurethane
- Finish: See Table
- Zinc Alloy is DIN-EN 1774 rated
- Nylon is DIN-EN ISO 1043-1 rated
- Two keys supplied with every lock

Features:
- Ideal for indoor or outdoor applications
- Please contact Essentra for alternate cylinder and driver options

CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

Item No.	Handle Material	Handle Finish	Cylinder Description
3081120300	Zinc Alloy	Chrome Plated	Stainless Steel Shutter (Keyed Alike)
3081220300	Zinc Alloy	Black Powder Coated	Stainless Steel Shutter (Keyed Alike)
3081223200	Zinc Alloy	Black Powder Coated	Stainless Steel Shutter (Keyed to Differ)
3082020300	Nylon	Black	Stainless Steel Shutter (Keyed Alike)
3082023200	Nylon	Black	Stainless Steel Shutter (Keyed to Differ)

SWINGHANDLES

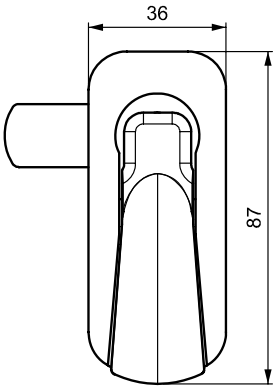
072 Series
Functional Lock - Lift & Turn Latch

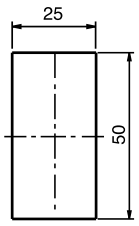
IP54

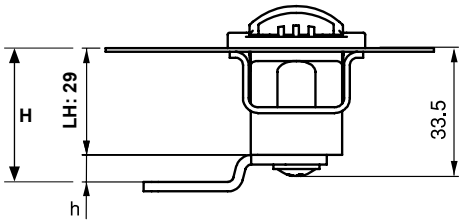
RoHS

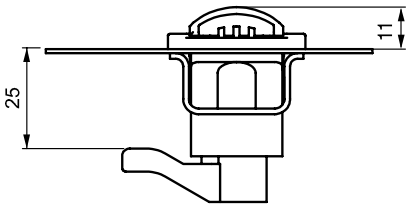
Version 1

Version 2









Specifications:
• Material:
Body: Nylon Black (PA6 30% GF)
• Housing is DIN-EN 1043-1 rated

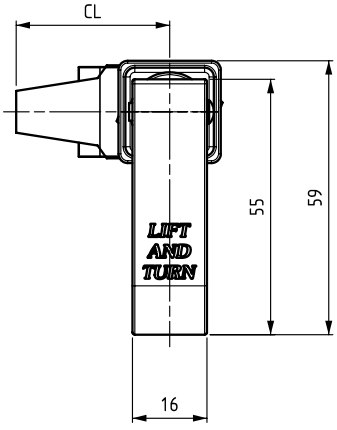
Features:
• Suitable for all panels

CAMS SOLD SEPARATELY. SEE PAGE 415.

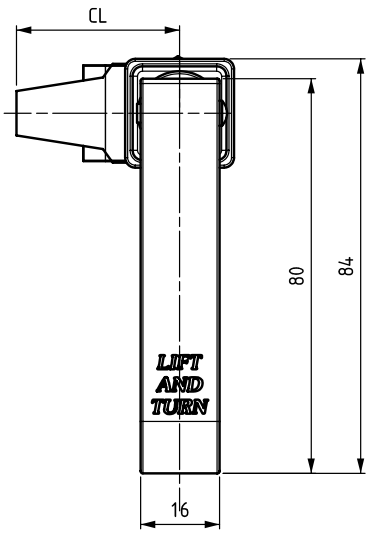
Item No.	Panel Thickness mm	Version	Version Description	Hand Operation
072100001	0.8 - 2.0	1	Bracket Fastening	Right
072100002	0.8 - 2.0	1	Bracket Fastening	Left
072200001	0.8 - 2.0	2	Molded-in Fastening Clips	Right
072200002	0.8 - 2.0	2	Molded-in Fastening Clips	Left

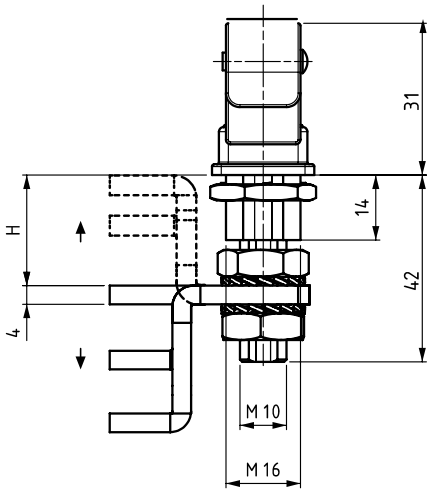
170 Series
Lift-and-Turn Latches - Fixed Compression Locks

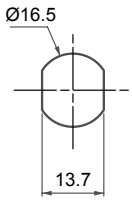
Version 1



Version 2







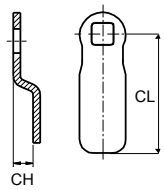
Cut-Out

Specifications:
- Material:
  Housing: Zinc Alloy
  Handle: Zinc Alloy
- Finish: See Table
- Housing and Handle are DIN-EN 1774 rated

Features:
- Applicable Cams are without stoppers
- Provides 5mm preset compression

CAMS SOLD SEPARATELY. See Table >>

Cams without Stoppers



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

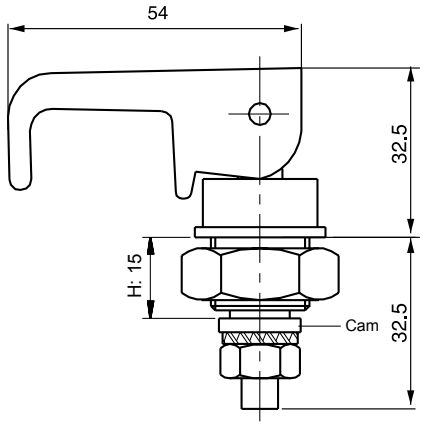
Item No.	Cam Type			CH	CL	H Grip* Min	H Grip* Max
30403565		①	Flat	0	33	22.5	30
30403566		②	Offset	14	33	8.5	44
30403567		③	Offset	27.5	33	0	57.5

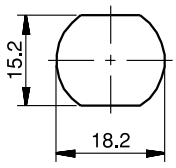
***Grip is measured in latched position**

Item No.			Handle
Zinc Alloy Chrome Plated	Zinc Alloy Black Powder Coated	Version Type	mm
17011100	17011200	1	55
17021100	17021200	2	80

LIFT & TURN CAM LATCHES

070 Series
Lift-and-Turn Latches - Compression Locks





Cut-Out

Specifications:
- Material:
  Body: Nylon Black (PA6 30% GF)
  Cam: Steel
- Housing and Handle are DIN-EN ISO 1043-1 rated
- Standard flat cam included
- Latch includes flat cam

Features:
- Suitable for a variety of panels
- Provides 5mm preset compression

Item No.	CH Cam Height	CL Cam Length	H Grip
070	0	45	15

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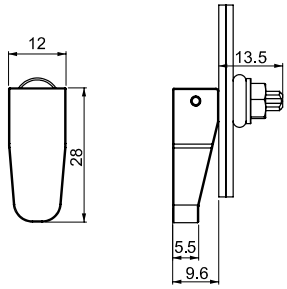
270 Series
Swell Latch

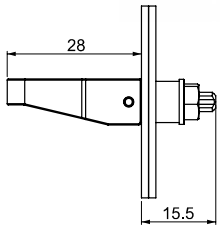
RoHS

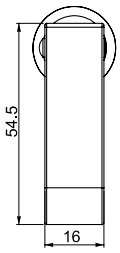
Versions 1 & 2

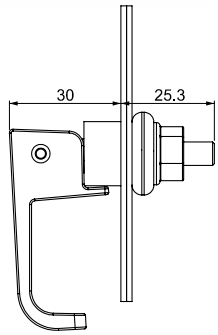
Version 3

Version 1

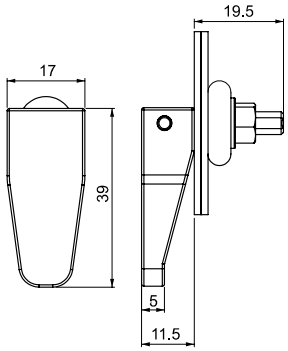


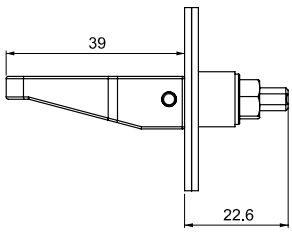


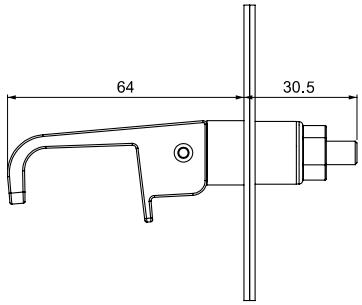




Version 2







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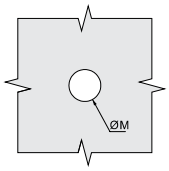

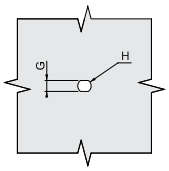

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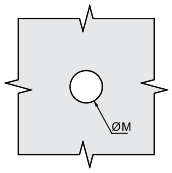
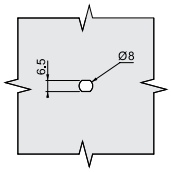




Cut Out

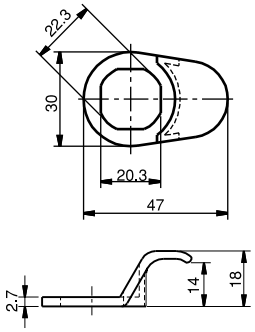
Specifications:
- Material:
  Handle: Zinc Alloy, Nylon Black (PA6 30% GF)
  Washer: Nylon Black (PA66)
  Nut: Nylon Black (PA66)
  Bushing: SBR Rubber
- Latch is DIN-EN ISO 1043-1 rated

Features:
- Used for the cabinets that require better performance under vibration conditions
- It is suitable with special Cut-Out for different frame thickness
- Applications include electrical panels, machinery covers, railway and construction equipment

Item No.	Version	Material	Finish	G +0.1 - 0.0	H +0.1 - 0.0	Cut-Out ØM	Frame Thickness
270201	1	Nylon	Black	3.3	4.1	9.5	3.2
270202	2	Nylon	Black	4.5	5.8	13.5	Up to 3.2mm
						14.0	3.2 - 4.8
270123	3	Zinc Alloy	Black Powder Coated	—	—	19.1	1.2 - 3.2
						19.5	3.2 - 4.8
						20.0	4.8 - 6.4
						20.5	6.4 and up

LATCH & LOCK ACCESSORIES

Finger Pull Latch Handle

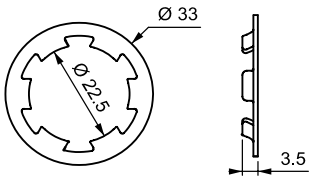


Specifications:
- Material: Nylon (30% GF)
- Color: Black

Features:
- Reduces the LH and H dimensions by 1mm
- Choose LH - 1mm when configuring cam section

Item No.
060A2

Spur Washer

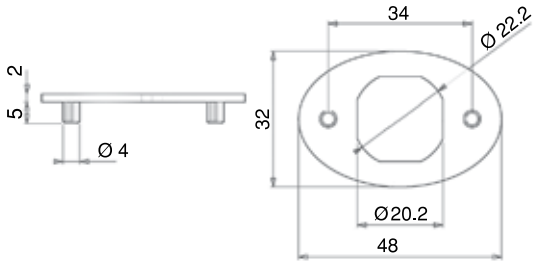


Specifications:
- Material: Steel
- Finish: Zinc Plated

Features:
- Ideal for non-metal surface applications such as wood or in applications where the through hole is round
- Locks into the material for better grip and slip prevention

Item No.
060A3

Installation Bracket

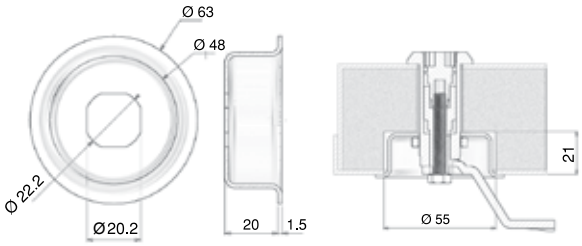


Specifications:
- Material: Zinc Alloy

Features:
- Used for non metal applications or when the through hole is round
- Eliminates movement or slipping of the latch

Item No.
060A5

Spacer

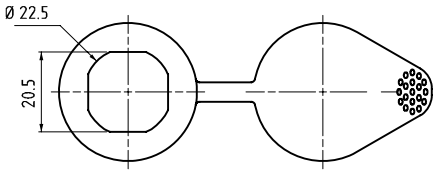


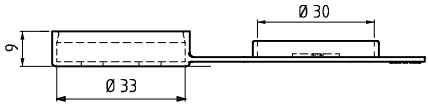
Specifications:
- Material: Steel
- Finish: Zinc Plated

Features:
- Allows for increased door thickness up to 20mm
- The spacer enables the latch to work with thicker doors and panels

Item No.
060A6

Cover Cap



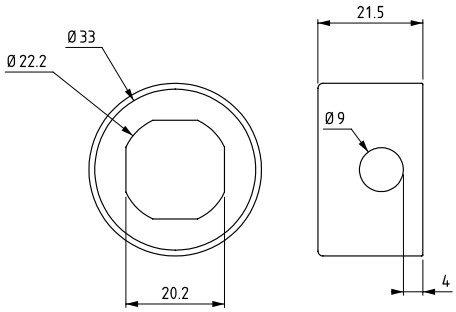


Specifications:
- Material: Polyurethane
- Color: Black

Features:
- Ideal for for added protection when dust and humidity are required.

Item No.
060A7

Padlock Adapter

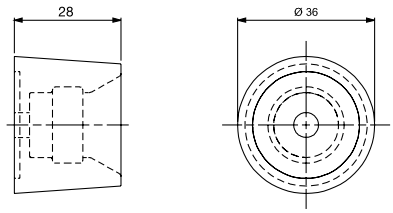


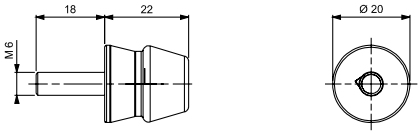
Specifications:
- Material: Steel
- Finish: Zinc Plated

Features:
- Provides extra security with standard latch
- Adapter allows padlock use up to 8mm in diameter

Item No.
060A8

Door Holdback



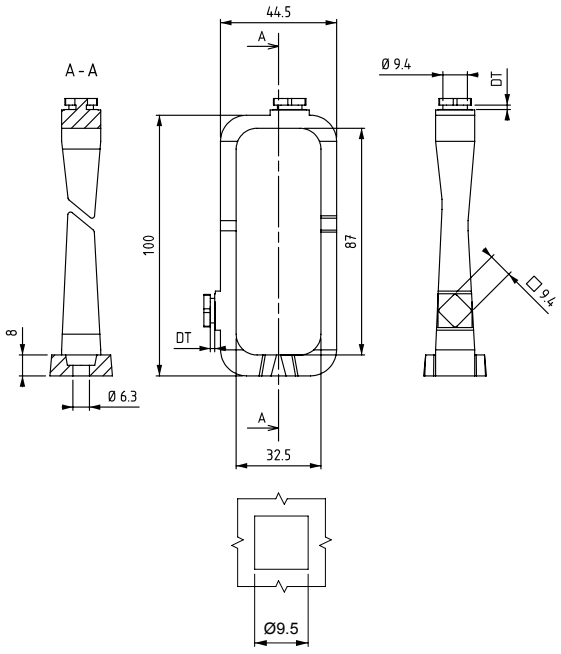


Specifications:
- Material: NBR Rubber
- Color: Black

Features:
- Absorbs shock while door is connected to frame
- Keeps the door at open position and can be used instead of cover stays
- Suitable for outdoor cabinets with high corrosion resistance

Item Number
34008001

320 Series
Cable Shunting Rings



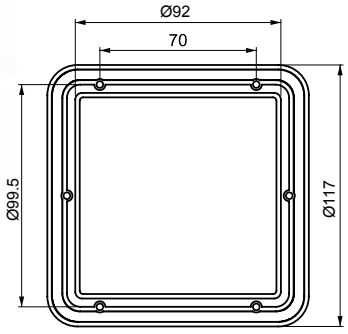
Cut-Out

Specifications:
• Materials: Nylon (PA6 30% GF)
• Color: Black

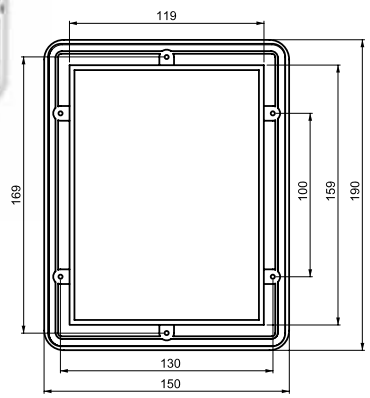
Features:
• Quick fixing in a square hole by turning 45° or mount by using M6 screws
• Install horizontal or vertical

Item No.	Panel Thickness mm
32002164	1.3 - 1.5
32002165	1.6 - 2.0

2215 & 2216 Series
Counter Screen



Version 1



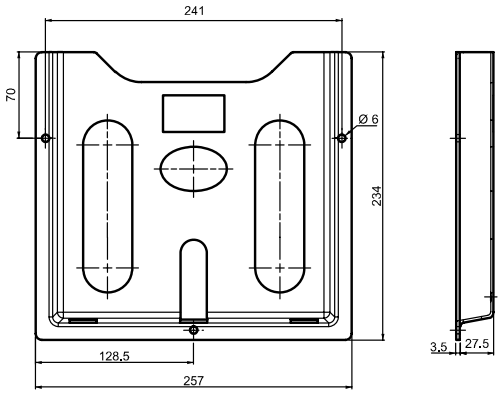
Version 2

Specifications:
• Material: Polycarbonate (Heat and UV stabilized)
• Color: Transparent

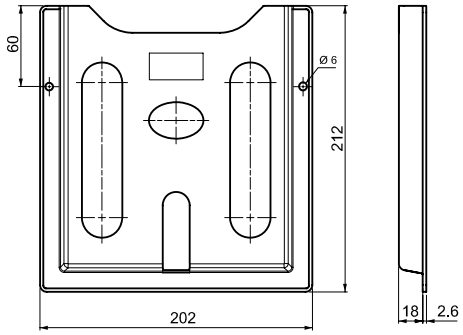
Features:
• Allows counters or dials to be viewed from outside enclosure

Item No.	Version
2215	**1**
2216	**2**

2150 & 2152 Series
Document Holder



Version 1



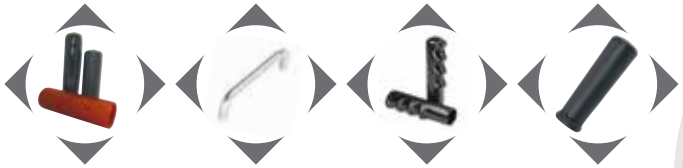
Version 2

Specifications:
• Material: Polystyrene
• Color: Grey

Features:
• Used to store documents or folders
• Can be secured using screws, bolts or adhesive strips

Item No.	Version
2150	1
2152	2

KNOBS, HANDLES & GRIPS



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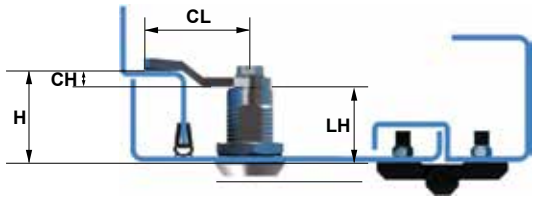
CAMS WITH STOPPERS

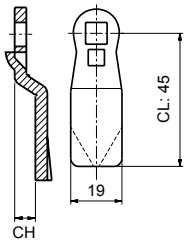
Cams With Stoppers

- H = Grip
- LH = Housing Length
- CL = Cam Length
- CH = Cam Height
- Please contact Essentra for alternate cam options



Know your Latch Housing Length (LH) and identify your Grip (H). Total Grip (H) is measured from the mounting outer surface and the contact surface of the inner frame. See illustration. When the Grip (H) is determined, select the matching cam from the options below.

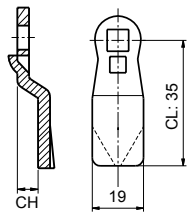
Cam Style 1



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	CH Height	CL Length	H Grip LH = 18.5	LH = 20	LH = 30	LH = 40	LH = 50	LH = 60
30403033	0	45	18.5	20	30	40	50	60
30403439	1	45	19.5	21	31	41	51	61
30403159	2	45	20.5	22	32	42	52	62
30403063	3	45	21.5	23	33	43	53	63
30403149	4	45	22.5	24	34	44	54	64
30403160	6	45	24.5	26	36	46	56	66
30403161	8	45	26.5	28	38	48	58	68
30403162	10	45	28.5	30	40	50	60	70
30403045	12	45	30.5	32	42	52	62	72
30403163	14	45	32.5	34	44	54	64	74
30403151	16	45	34.5	36	46	56	66	76
30403165	18	45	36.5	38	48	58	68	78
30403166	20	45	38.5	40	50	60	70	80
30403167	22	45	40.5	42	52	62	72	82
30403168	24	45	42.5	44	54	64	74	84
30403169	-2	45	16.5	18	28	38	48	58
30403170	-4	45	14.5	16	26	36	46	56
30403171	-6	45	12.5	14	24	34	44	54
30403172	-8	45	10.5	12	22	32	42	52
30403173	-10	45	8.5	10	20	30	40	50
30403174	-12	45	6.5	8	18	28	38	48
30403175	-14	45	4.5	6	16	26	36	46

Cam Style 2



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	CH Height	CL Length	H Grip LH = 18.5	LH = 20	LH = 30	LH = 40	LH = 50	LH = 60
30403187	-2	35	16.5	18	28	38	48	58
30403185	0	35	18.5	20	30	40	50	60
30403186	2	35	20.5	22	32	42	52	62
30403188	4	35	22.5	24	34	44	54	64
30403470	6	35	24.5	26	36	46	56	66
30403471	7	35	25.5	27	37	47	57	67
30403189	10	35	28.5	30	40	50	60	70
30403046	26	35	44.5	46	56	66	76	86

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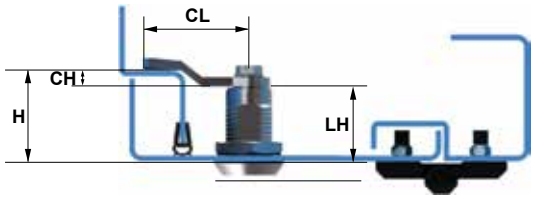
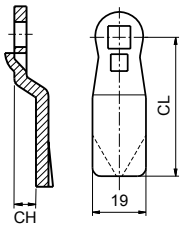
Cams With Stoppers

- H = Grip
- LH = Housing Length
- CL = Cam Length
- CH = Cam Height
- Please contact Essentra for alternate cam options



Know your Latch Housing Length (LH) and identify your Grip (H). Total Grip (H) is measured from the mounting outer surface and the contact surface of the inner frame. See illustration. When the Grip (H) is determined, select the matching cam from the options below.

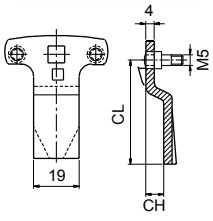
Cam Style 3



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	CH Height	CL Length	H Grip LH = 18.5	LH = 20	LH = 30	LH = 40	LH = 50	LH = 60
30403031	0	29	18.5	20	30	40	50	60
30403032	0	38	18.5	20	30	40	50	60
30403036	0	66	18.5	20	30	40	50	60
30403034	0	51	18.5	20	30	40	50	60
30403037	3	38	21.5	23	33	43	53	63
30403038	3	51	21.5	23	33	43	53	63
30403129	6	37	24.5	26	36	46	56	66
30403039	7	44	25.5	27	37	47	57	67
30403040	7	49	25.5	27	37	47	57	67
30403043	10	48	28.5	30	40	50	60	70

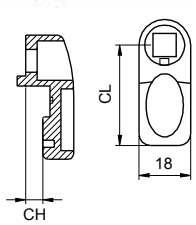
Cam Style 4



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	CH Height	CL Length	H Grip LH = 18.5	LH = 20	LH = 30	LH = 40	LH = 50	LH = 60
30403140	0	51	18.5	20	30	40	50	60
30403522	0	45	18.5	20	30	40	50	60
30403047	7	49	25.5	27	37	47	57	67
30403524	2	45	20.5	22	32	42	52	62
30403526	3	45	21.5	23	33	43	53	63
30403528	4	45	22.5	24	34	44	54	64
30403530	5	45	23.5	25	35	45	55	65
30403532	6	45	24.5	26	36	46	56	66
30403534	7	45	25.5	27	37	47	57	67
30403147	12	46	30.5	32	42	52	62	72
30403536	14	45	32.5	34	44	54	64	74

Cam Style 5



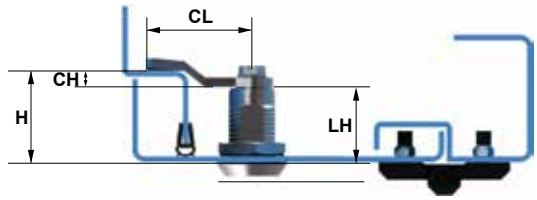
Specifications:
- Material: Nylon
- Color: Black
- Thickness: Contact Essentra for details as needed

Item No.	CH Height	CL Length	H Grip LH = 18.5	LH = 20	LH = 30	LH = 40	LH = 50	LH = 60
30402004	0	35	18.5	20	30	40	50	60
30402011	0	25	18.5	20	30	40	50	60
30402005	6	35	24.5	26	36	46	56	66
30402008	4	45	22.5	24	34	44	54	64
30402013	-4	45	14.5	16	26	36	46	56

CAMS WITHOUT STOPPERS

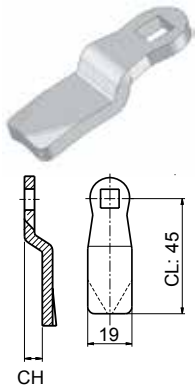
Cams without Stoppers

- H = Grip
- LH = Housing Length
- CL = Cam Length
- CH = Cam Height
- Please contact Essentra for alternate cam options



Know your Latch Housing Length (LH) and identify your Grip (H). Total Grip (H) is measured from the mounting outer surface and the contact surface of the inner frame. See illustration. When the Grip (H) is determined, select the matching cam from the options below.

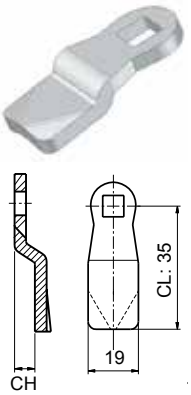
Cam Style 1



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	CH Height	CL Length	H Grip LH = 18.5	LH = 20	LH = 25	LH = 32
30403117	0	45	18.5	20	25	32
30403557	1	45	19.5	21	26	33
30403581	2	45	20.5	22	27	34
30403054	3	45	21.5	23	28	35
30403197	4	45	22.5	24	29	36
30403128	6	45	24.5	26	31	38
30403583	8	45	26.5	28	33	40
30403584	10	45	28.5	30	35	42
30403123	12	45	30.5	32	37	44
30403422	14	45	32.5	34	39	46
30403410	16	45	34.5	36	41	48
30403429	18	45	36.5	38	43	50
30403585	20	45	38.5	40	45	52
30403586	22	45	40.5	42	47	54
30403411	24	45	42.5	44	49	56
30403425	-2	45	16.5	18	23	30
30403198	-4	45	14.5	16	21	28
30403423	-6	45	12.5	14	19	26
30403412	-8	45	10.5	12	17	24
30403552	-10	45	8.5	10	15	22
30403587	-12	45	6.5	8	13	20
30403420	-14	45	4.5	6	11	18

Cam Style 2



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	CH Height	CL Length	H Grip LH = 18.5	LH = 20	LH = 25	LH = 32
30403069	-2	35	16.5	18	23	30
30403444	0	35	18.5	20	25	32
30403519	2	35	20.5	22	27	34
30403588	4	35	22.5	24	29	36
30403477	6	35	24.5	26	31	38
30403589	7	35	25.5	27	32	39
30403407	10	35	28.5	30	35	42
30403075	26	35	44.5	46	51	58

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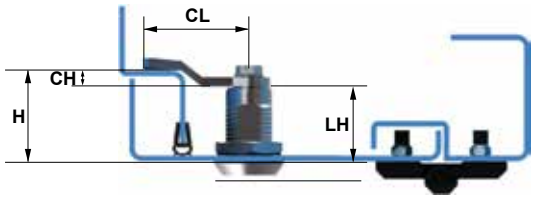
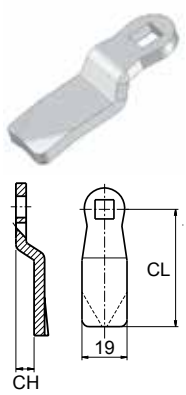
Cams without Stoppers

- H = Grip
- LH = Housing Length
- CL = Cam Length
- CH = Cam Height
- Please contact Essentra for alternate cam options



Know your Latch Housing Length (LH) and identify your Grip (H). Total Grip (H) is measured from the mounting outer surface and the contact surface of the inner frame. See illustration. When the Grip (H) is determined, select the matching cam from the options below.

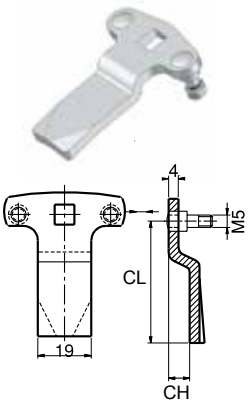
Cam Style 3



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	CH	CL	H Grip			
	Height	Length	LH = 18.5	LH = 20	LH = 25	LH = 32
30403006	0	29	18.5	20	25	32
30403130	0	38	18.5	20	25	32
30403003	0	51	18.5	20	25	32
30403005	0	66	18.5	20	25	32
30403064	3	38	21.5	23	28	35
30403141	3	51	21.5	23	28	35
30403138	6	37	24.5	26	31	38
30403073	7	44	25.5	27	32	39
30403002	7	49	25.5	27	32	39
30403004	10	48	28.5	30	35	42

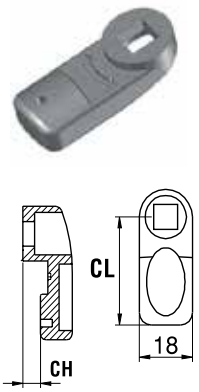
Cam Style 4



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 4mm

Item No.	CH	CL	H Grip
	Height	Length	LH = 18.5
30403135	0	51	18.5
30403523	0	45	18.5
30403001	7	49	25.5
30403525	2	45	20.5
30403527	3	45	21.5
30403529	4	45	22.5
30403531	5	45	23.5
30403533	6	45	24.5
30403535	7	45	25.5
30403068	12	46	30.5
30403537	14	45	32.5

Cam Style 5



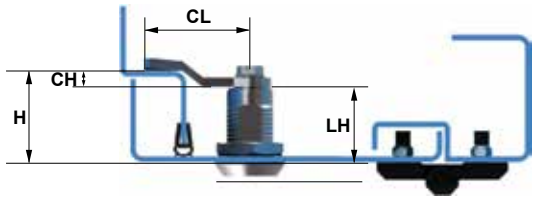
Specifications:
- Material: Nylon
- Color: Black
- Thickness: Contact Essentra for details as needed

Item No.	CH	CL	H Grip		
	Height	Length	LH = 18.5	LH = 20	LH = 25
30402002	0	35	18.5	20	25
30402010	0	25	18.5	20	25
30402007	4	45	22.5	24	29
30402003	6	35	24.5	26	31
30402014	-4	45	14.5	16	21

STAINLESS STEEL CAMS

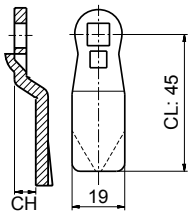
Cams with and without Stoppers

- H = Grip
- LH = Housing Length
- CL = Cam Length
- CH = Cam Height
- Please contact Essentra for alternate cam options



Know your Latch Housing Length (LH) and identify your Grip (H). Total Grip (H) is measured from the mounting outer surface and the contact surface of the inner frame. See illustration. When the Grip (H) is determined, select the matching cam from the options below.

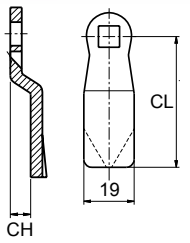
Cam Style 1 - with Stopper



Specifications:
- Material: Stainless Steel
- Finish: Natural
- Thickness: 4mm

Item No.	CH Height	CL Length	H Grip LH = 18.5	LH = 20	LH = 30	LH = 40	LH = 50	LH = 60
30405004	0	45	18.5	20	30	40	50	60
30405003	0	51	18.5	20	30	40	50	60
30405159	2	45	20.5	22	32	42	52	62
30405063	3	45	21.5	23	33	43	53	63
30405149	4	45	22.5	24	34	44	54	64
30405160	6	45	24.5	26	36	46	56	66
30405040	7	49	25.5	27	37	47	57	67
30405006	8	45	26.5	28	38	48	58	68
30405162	10	45	28.5	30	40	50	60	70
30405045	12	45	30.5	32	42	52	62	72

Cam Style 2 - without Stopper



Specifications:
- Material: Stainless Steel
- Finish: Natural
- Thickness: 4mm

Item No.	CH Height	CL Length	H Grip LH = 18.5	LH = 20	LH = 25	LH = 32
30405117	0	45	18.5	20	25	32
30405058	0	51	18.5	20	25	32
30405012	2	45	20.5	22	27	34
30405013	3	45	21.5	23	28	35
30405015	4	45	22.5	24	29	36
30405002	7	49	25.5	27	32	39
30405016	8	45	26.5	28	33	40
30405017	10	45	28.5	30	35	42
30405018	12	45	30.5	32	37	44

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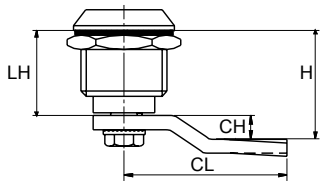
Server Cabinets | Data Centers | Electric Panels | Telecommunications | Kiosks | GSM Cabinets

Monitoring & Access Control Concept | See pages 356 - 357 for more details.

MISCELLANEOUS CAMS

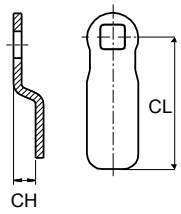
Cams with and without Stoppers

- H = Grip
- LH = Housing Length
- CL = Cam Length
- CH = Cam Height
- Please contact Essentra for alternate cam options



Know your Latch Housing Length (LH) and identify your Grip (H). Total Grip (H) is measured from the mounting outer surface and the contact surface of the inner frame. See illustration. When the Grip (H) is determined, select the matching cam from the options below.

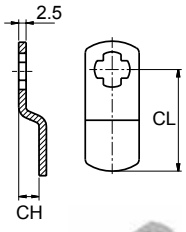
Cam Style 1 - without Stopper



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: Contact Essentra for details as needed

Item No.	CH	CL	H Grip		
	Height	Length	LH = 16.5	LH = 20	LH = 29
30403124	0	45	16.5	20	29
31403010	0	23	16.5	20	29
31403011	0	33	16.5	20	29
30403157	3	48	19.5	23	32
30403125	7	40	23.5	27	36
30403110	10	37	26.5	30	39
30403111	14	33	30.5	34	43

Cam Style 2 - without Stopper



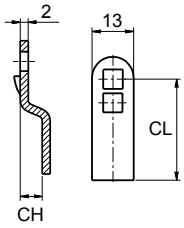
Hook Cam

Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 2.5mm

Item No.	CH	CL	H Grip
	Height	Length	LH = 16.5
30403014	0	38	16.5
30403100	0	33	16.5
30403019	0	49	16.5
30403082	3	38	19.5
30403015	7	36	23.5
30403016	7	47	23.5
30403017	10	44	26.5
30403022*	0	39	16.5

*** Hook Style Cam**

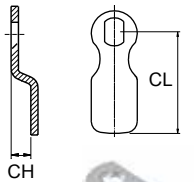
Cam Style 3 - with Stopper



Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: 2mm

Item No.	CH	CL	H Grip	
	Height	Length	LH = 13.5	LH = 16
30403084	0	33	13.5	16
30403184	0	25	13.5	16
30403183	6	25	19.5	22
30403085	7	30	20.5	23
30403196	6	25	19.5	22

Cam Style 4 - without Stopper



Hook Cam

Specifications:
- Material: Steel
- Finish: Zinc Plated
- Thickness: Contact Essentra for details as needed

Item No.	CH	CL	H Grip
	Height	Length	LH = 13
30403158	0	24	13
31403016	0	21	13
30403029	0	31	13
30403028	0	36	13
30403089	3	30	16
30403030	7	26	20
30403182	-3	28	10
30403058*	0	31	13

*** Hook Style Cam**

ALTERNATE DRIVERS FOR LATCHES AND LOCKS

Alternate Driver Keys

Please Contact Essentra for product details

13
3mm Double Bit

15
5mm Double Bit

28
8mm Square

26
6mm Square

27
7mm Square

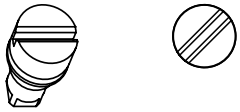
39
9mm Triangular

37
7mm Triangular

38
8mm Triangular

52
Slot (2 x 4mm)

42
Slot (2 x 4mm)



58
8mm Square Slot

61
10mm Hexagon (female)

68
8mm Hexagon (female)

71
Slot (5 x 10mm)

76
6mm Square

88
Railway

91
Eastern

92
Tork (T-30)

97
11mm Hexagon (male)

95
Fiat

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Driver Keys - Long

Specifications:
- Material: Zinc Alloy
- Finish: Chrome Plated
- Key Width = 50mm

Item No.
36813
3mm Double Bit
Key Size: 75mm Height

Item No.
36815
5mm Double Bit
Key Size: 75mm Height

Item No.
36826
6mm Square
Key Size: 81mm Height

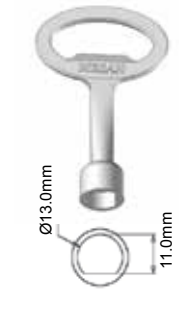
Item No.
36827
7mm Square
Key Size: 81mm Height

Item No.
36828
8mm Square
Key Size: 81mm Height

Item No.
36837
7mm Triangle
Key Size: 75mm Height

Item No.
36838
8mm Triangle
Key Size: 75mm Height

Item No.
36839
9mm Triangle
Key Size: 81mm Height



Item No.
36891
Eastern
Key Size: 83mm Height

Item No.
36868
8mm Hexagon High Security
Key Size: 81mm Height

Driver Keys - Short

Specifications:
- Material: Zinc Alloy
- Finish: Chrome Plated
- Key Width = 36mm

Item No.
26713
3mm Double Bit
Key Height = 51mm

Item No.
26715
5mm Double Bit
Key Height = 51mm

Item No.
26726
6mm Square
Key Height = 57mm

Item No.
26727
7mm Square
Key Height = 57mm

Item No.
26728
8mm Square
Key Height = 57mm

Item No.
26737
7mm Triangle
Key Height = 57mm

Item No.
26738
8mm Triangle
Key Height = 57mm

Item No.
26739
9mm Triangle
Key Height = 57mm

DRIVER KEYS

Driver Keys - Plastic

Specifications:
- Material: Plastic Nylon
- Color: Black

Item No.
16966
6mm Hexagon

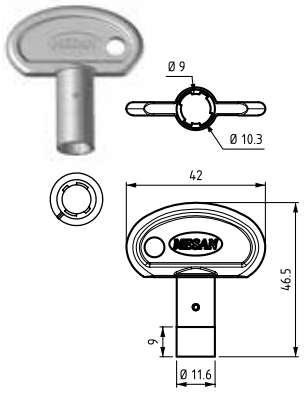
Item No.
16915
5mm Double Bit

Item No.
26915
5mm Double Bit

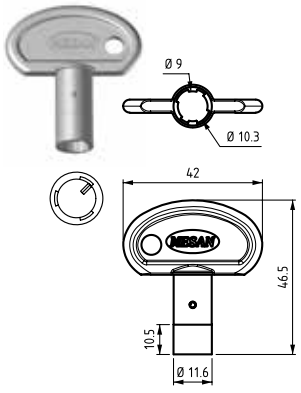
Item No.
16939
9mm Triangle

Tubular Keys

Specifications:
- Material: See Table
- Finish: See Table



Version 1



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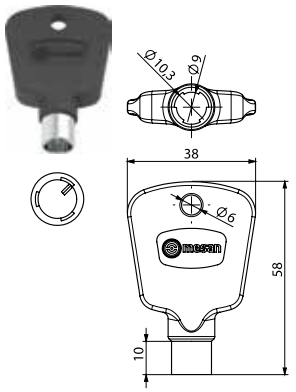
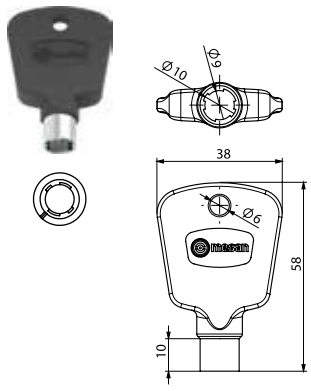


Version 3



Version 4

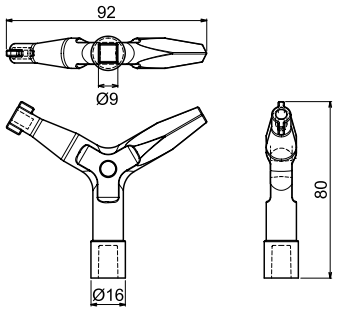
- Version 3 - Suitable for 140 Series compression latches
- Version 4 - Suitable for 040 Series compression latches

Item No.	Version	Material	Finish
36911	1	Zinc Alloy	Chrome Plated
36912	1	Zinc Alloy	Black Powder Coated
76993	3	Steel / Nylon	Over Molded Nylon

Item No.	Version	Material	Finish
46911	2	Zinc Alloy	Chrome Plated
46912	2	Zinc Alloy	Black Powder Coated
66993	4	Steel / Nylon	Over Molded Nylon

Multi-Key

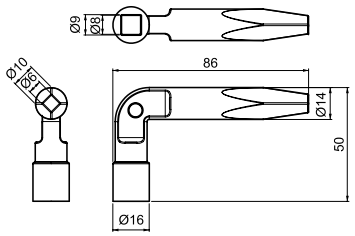
Specifications:
- Material: Zinc Alloy
- Finish: Chrome Plated
- Double Bit
- Square



Item No.	Description
56813	Double Bit,Square, Railway

Railway Key

Specifications:
- Material: Zinc Alloy
- Finish: Chrome Plated
- Square



Item No.	Description
56913	Square, Railway

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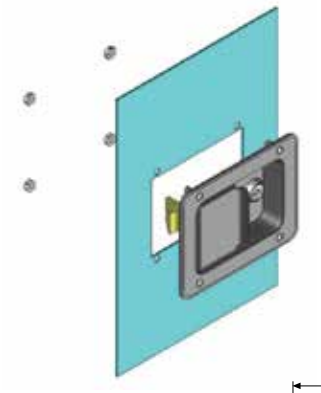
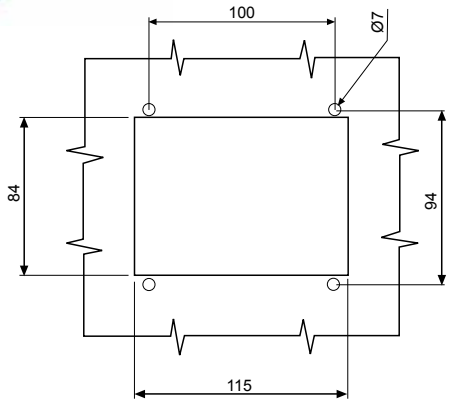
016 Series
Heavy Duty Latches - Push to Close Latch





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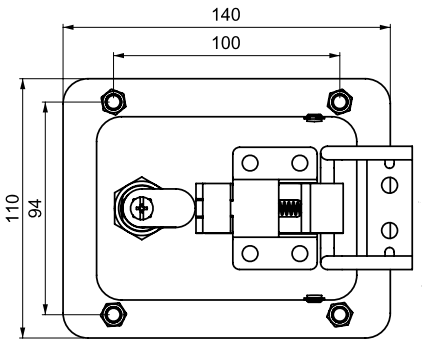
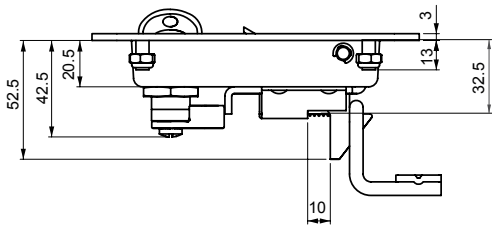




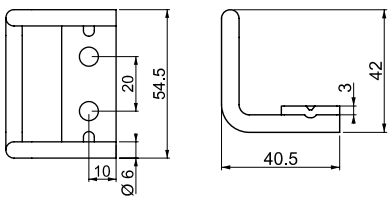
Specifications:
- Material: See Table
  Screw: Stainless Steel
  Seal: Polyurethane
- Supplied with one key

Features:
- Slam-shut operation
- Can be opened from inside by moving Cam

STRIKE PLATE SOLD SEPARATELY, SEE TABLE.

Item No.	Material	Finish	Cylinder Description	Cam Striking Plate
01662031	Steel	Black Powder Coated	Black Steel Shutter (Keyed Alike)	**016A71**
01662321	Steel	Black Powder Coated	Black Steel Shutter (Keyed to Differ)	**016A71**
016620011	Steel	Black Powder Coated	No Cylinder, Padlock Only	**016A71**
01640031	Stainless Steel	Natural	Stainless Steel Shutter (Keyed Alike)	**016A740**
01640321	Stainless Steel	Natural	Stainless Steel Shutter (Keyed to Differ)	**016A740**

016A Series
Cam Striking Plate



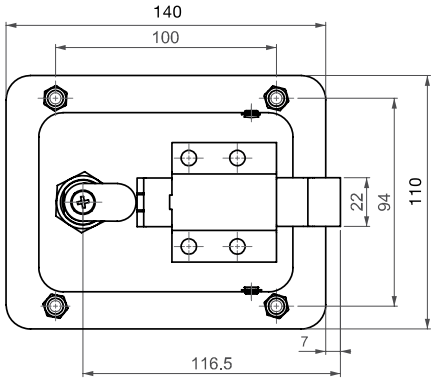
Specifications:
- Material: See Table
- Finish: See Table

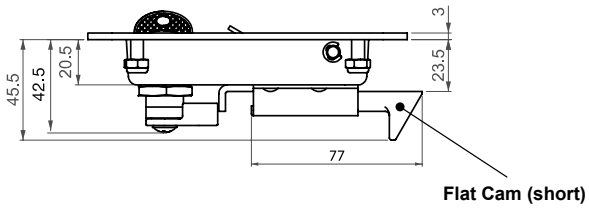
Features:
- Strike plate used with 016 Series

Item No.	Material	Finish
016A71	Steel	Zinc Plated
06A740	Stainless Steel	Natural

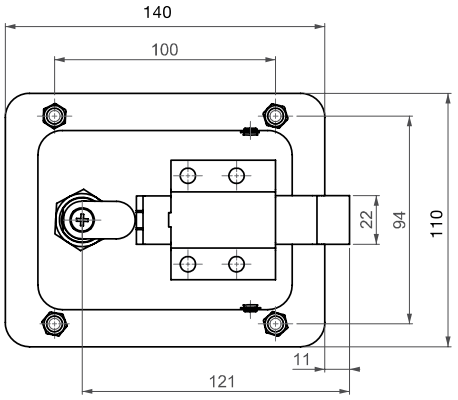
HEAVY DUTY LATCHES

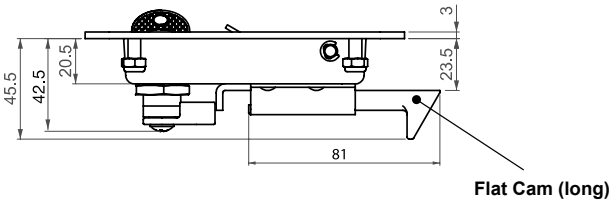
016 Series
Heavy Duty Latches - Push to Close Latch





Version 2





Version 3

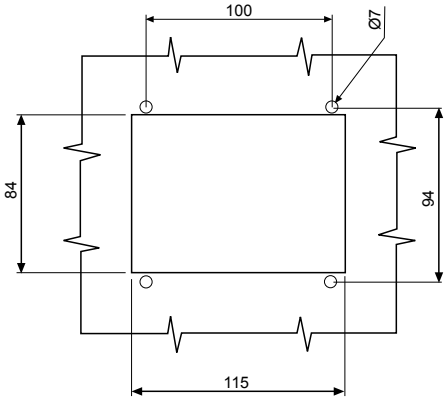
Specifications:
- Material:
  Body: Steel
  Handle: Steel
  Cam: Zinc Alloy
  Seal: Polyurethane
- Supplied with one key
- Cam is DIN-EN 1774 rated

Features:
- Can be opened from inside by moving Cam

STRIKE PLATE SOLD SEPARATELY, SEE TABLE.

Item No.	Version Type	Cam Length	Cylinder Description
01662032	2	77	Stainless Steel Shutter (Keyed Alike)
01662322	2	77	Stainless Steel Shutter (Keyed to Differ)
01662033	3	81	Stainless Steel Shutter (Keyed Alike)
01662323	3	81	Stainless Steel Shutter (Keyed to Differ)

016 Series
Heavy Duty Latches - Push to Close Latch



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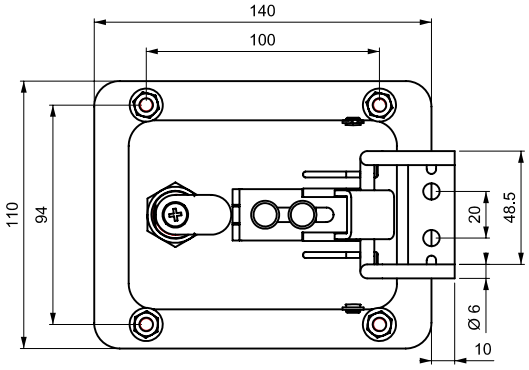
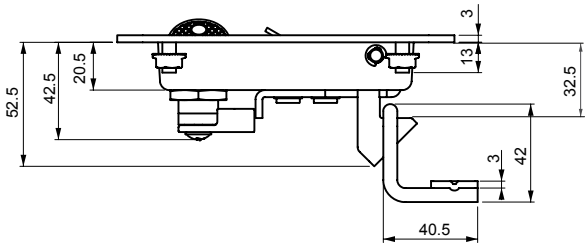




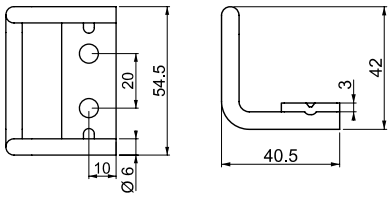
Specifications:
- Material:
  Body: Steel
  Handle: Steel
  Cam: Steel
  Seal: Polyurethane
- Supplied with one key
- Cam is DIN-EN 1774 rated

Features:
- Can be opened from inside by moving Cam

STRIKE PLATE SOLD SEPARATELY, SEE TABLE.

Item No.	Cylinder Description	Cam Striking Plate
01662034	Stainless Steel Shutter (keyed Alike)	**016A71**
01662324	Stainless Steel Shutter (Keyed to Differ)	**016A71**

016A Series
Cam Striking Plate



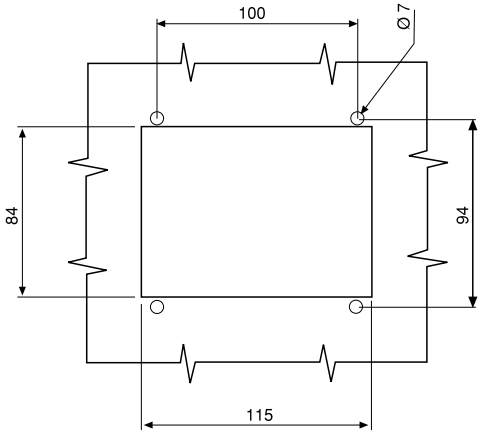
Specifications:
- Material: See Table
- Finish: See Table

Features:
- Strike plate used with 016 Series

Item No.	Material	Finish
016A71	Steel	Zinc Plated
06A740	Stainless Steel	Natural

HEAVY DUTY LATCHES

016 Series
Heavy Duty Latches - Push-to-Close Latch



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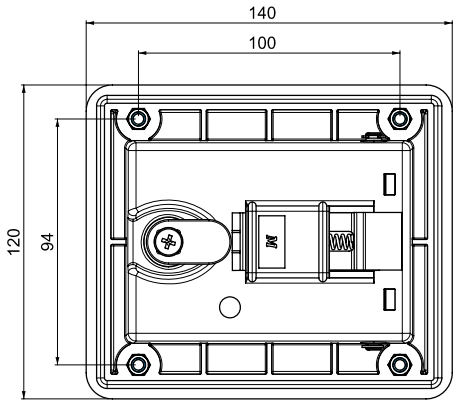
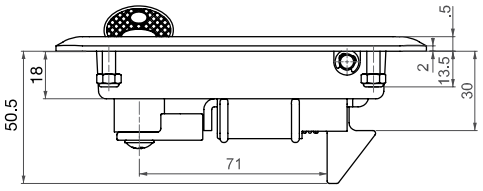




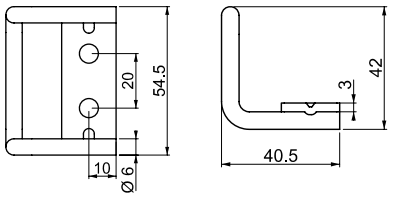
Specifications:
- Material:
  Body: Nylon Black (PA6 30% GF)
  Cam: See Table
  Mounting Bracket: Steel
- Body is DIN-EN ISO 1043-1 rated

Features:
- Mounting bracket included
- Slam-shut operation
- Please contact Essentra for key options

STRIKE PLATE SOLD SEPARATELY, SEE TABLE.

Item No.	Cylinder Description	Cam Material	Cam Striking Plate
016200301	Stainless Steel Shutter (Keyed Alike)	Brass	**016A71**
016203202	Stainless Steel Shutter (Keyed to Differ)	Delrin	**016A71**

016A Series
Cam Striking Plate



Specifications:
- Material: See Table
- Finish: See Table

Features:
- Strike plate used with 016 Series

Item No.	Material	Finish
016A71	Steel	Zinc Plated
06A740	Stainless Steel	Natural

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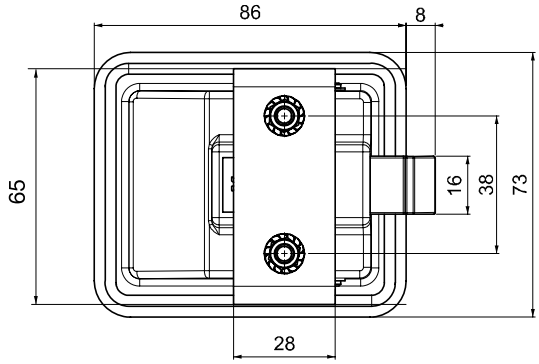
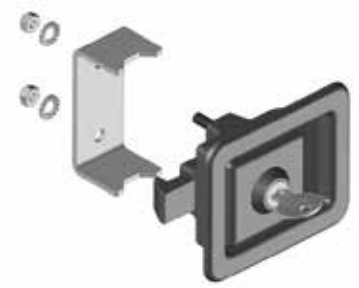
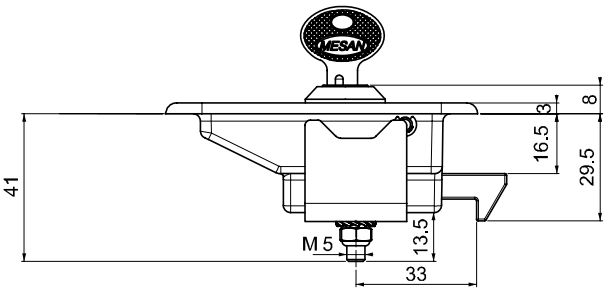
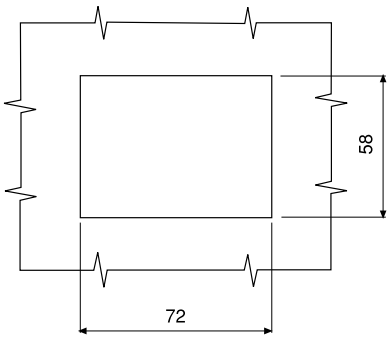
116 Series
Push-To-Close Latch









Cut-Out

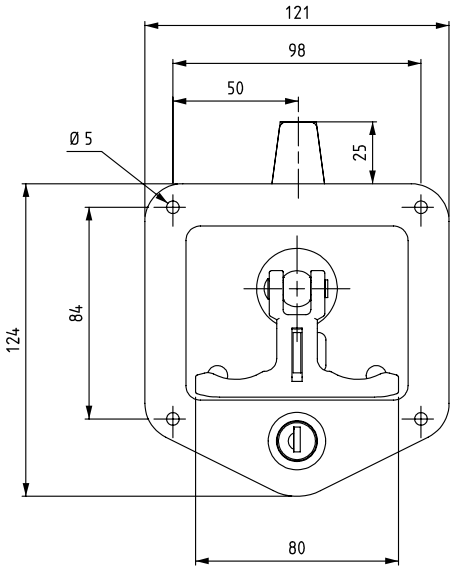
Specifications:
- Material:
  Body: Nylon Black (PA6 30% GF)
  Cam: Delrin
  Mounting Bracket: Steel
- Body is DIN-EN ISO 1043-1 rated
- Handle is DIN-EN 1774 rated

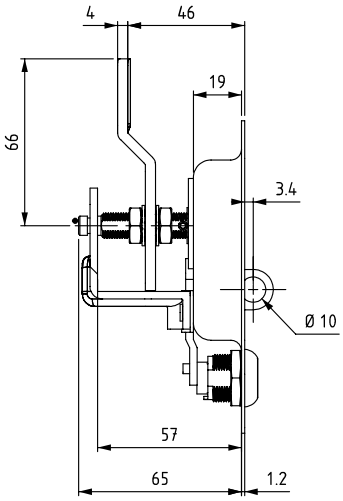
Features:
- Mounting bracket included
- Can be opened from inside using Cam
- Please contact Essentra for Keyed to Differ

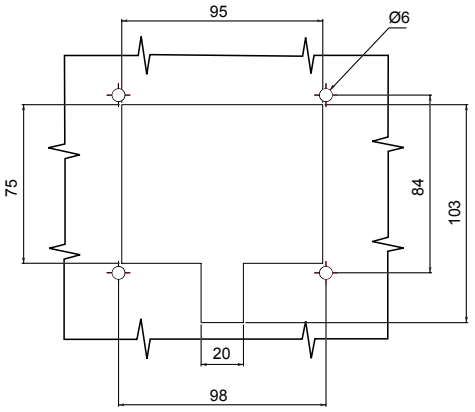
Item No.	Cylinder Description
11600M	No Cylinder
11601	Keyed Alike

HEAVY DUTY LATCHES

315 Series
'T' Handle - Heavy-Duty Padlockable Latch







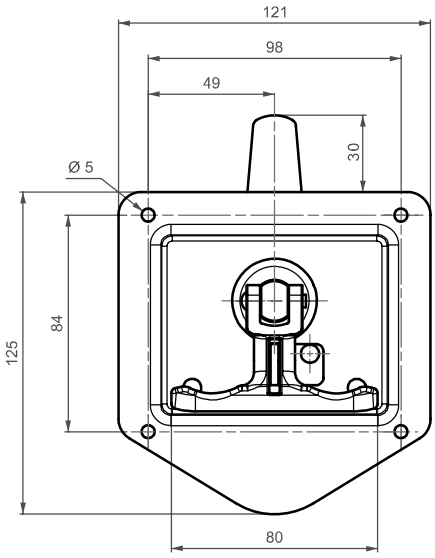
Cut-Out

Specifications:
- Material:
  Body: Stainless Steel
  Handle: Zinc Alloy
  Padlock Hasp: Stainless Steel
  Cam: Steel
- Finish: Natural
- Handle is DIN-EN 1774 rated

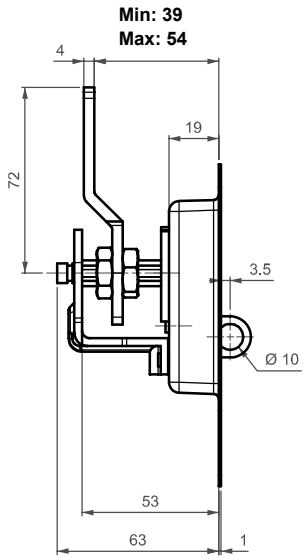
Features:
- Suitable for small case generators, truck utility and tool boxes
- Adjustable Cam for wide grip range
- Maximum padlock shackle diamter 9mm

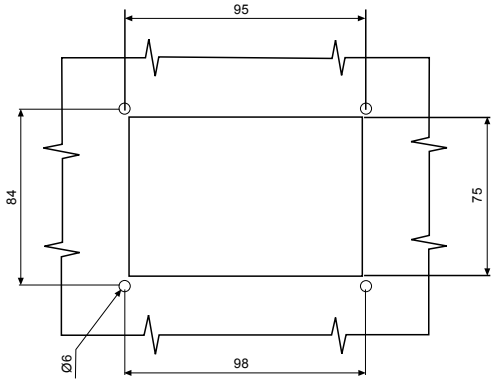
Item No.	Cylinder Description
315	Stainless Steel Shutter (Keyed Alike)

115 Series
"T" Handle - Heavy Duty Padlockable Latch



Min: 39
Max: 54





Specifications:
- Material:
  Body: Stainless Steel
  Handle: Zinc Alloy
  Padlock Hasp: Stainless Steel
  Cam: Steel
- Finish: Body: Natural
  Handle: Chrome Plated
- Handle is DIN-EN 1774 rated
- Cam included with latch/lock

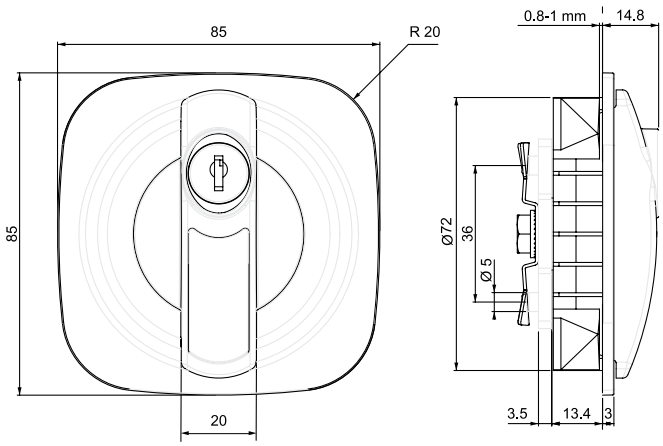
Features:
- Suitable for small case generators, truck utility and tool boxes
- Adjustable Cam for wide grip range
- Maximum padlock shackle diamter 9mm

Cut-Out

Item No.
115

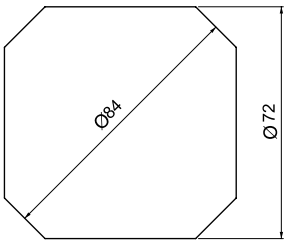
HEAVY DUTY LATCHES

035 Series
Steel Cabinet Latch



Specifications:
- Material:
  Body: Nylon Black (PA6 30% GF)
  Knob: Zinc Alloy
  Finish: See Table
- Zylon is DIN-EN ISO 1043-1 rated
- Zinc Alloy is DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Suitable for steel cabinets
- Locking cams below provides easy rod assembly for multi-point fixing
- Clip-on style body
- Two or Three-point locking options, see 304 Series below
- Please contact Essentra for different color options



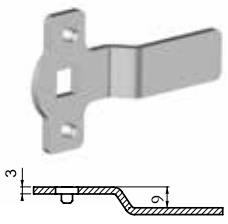
Cut Out

CAMS SOLD SEPARATELY, SEE CABINET LATCHING CAMS BELOW.

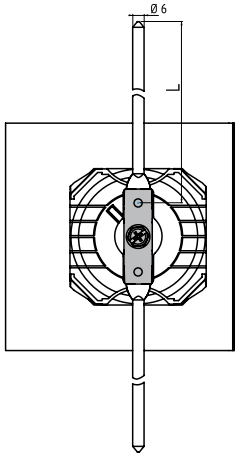
Item No.	Handle Finish	Cylinder Description
03520110100	Chrome Plated	Keyed Alike
03520110200	Chrome Plated	Keyed Differ
03520120100	Black Powder Coated	Keyed Alike
03520120200	Black Powder Coated	Keyed Differ

304 Series - Used with 035 Series Latches
Cabinet Latching Cams

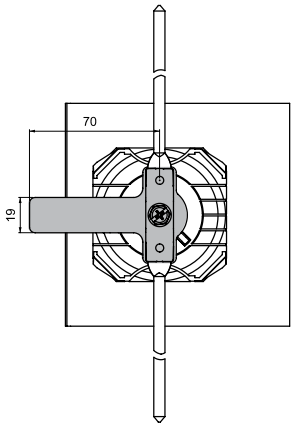
Version 1



Version 2



2 Point Locking
Zinc Alloy Cam



3 Point Locking
Steel Cam

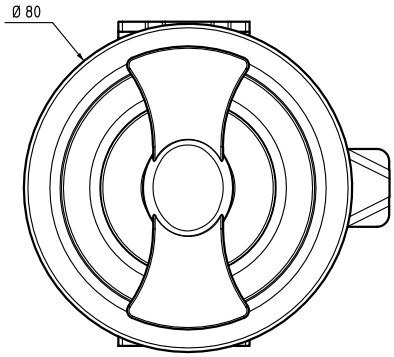
Specifications:
- Material: See Table

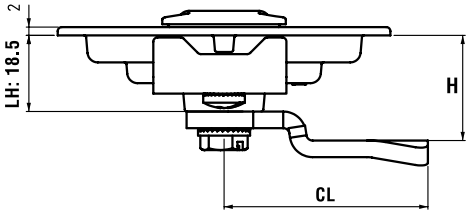
Features:
- For rod system details, Please contact Essentra for details

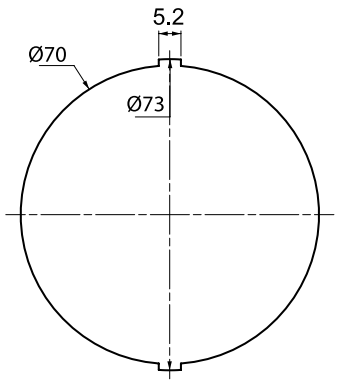
Cam Item No.	Version	Description
30401034	1	Zinc Alloy
30403641	2	Steel

tel | 800 847 0486 fax | 866 561 6617

013 Series
Cabinet Latches - Fire Hose Locks







Cut-Out

Specifications:
- Material:
  Body: Zinc Alloy
  Knob: Zinc Alloy
  Cam: Steel
  Installation Plate: Steel
- Finish: Chrome Plated
- Zinc Alloy is DIN-EN 1774 rated

Features:
- Suitable for steel cabinets
- Designed for fire-hose cabinetry
- Special installation-plate supplied for easy install
- Flush design provides flat surface on cabinet

CAMS SOLD SEPARATELY. SEE PAGES 410 - 411.

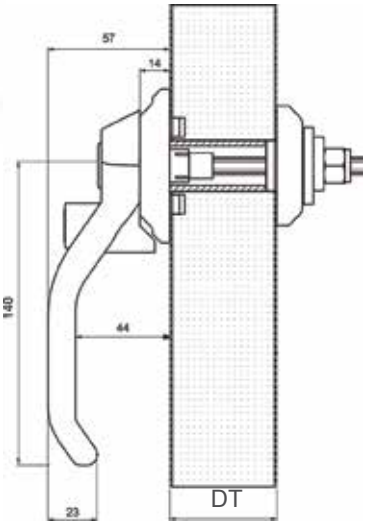
Item No.
0132111100

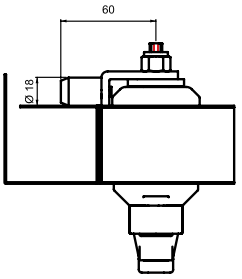
HEAVY DUTY LATCHES

012 Series
HVAC Handle - Locks

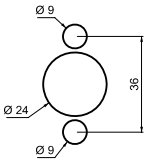
Cylinder System

No Cylinder





Cut-Out

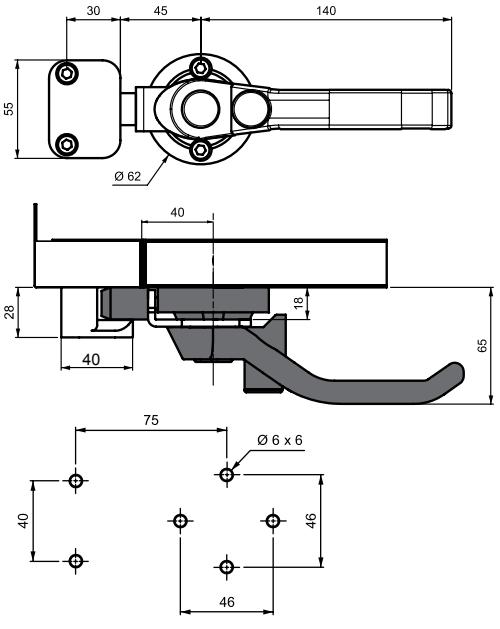


Specifications:
- Material:
  Body: Nylon Black (PA6 30% GF)
  Handle: Nylon Black (PA6 30%GF)
  Cam: Steel
- Body and handle are DIN-EN ISO 1043-1 rated
- Two keys supplied with every lock

Features:
- Removable handle for easy assembly on site
- Roller Cam requires less force to lock
- Can be used for both left and right hand doors
- Internal handle available for opening door from inside, see 012A Series
- Contact Essentra for different door thicknesses, cylinders or driver style options

Item No.	Door Thickness (DT)	Cylinder Description
0121500001	50	No Cylinder
0121600001	60	No Cylinder
0121800001	80	No Cylinder
0121500301	50	Keyed Alike
0121600301	60	Keyed Alike
0121800301	80	Keyed Alike

012 Series
HVAC Handle - Locks



Cut-Out

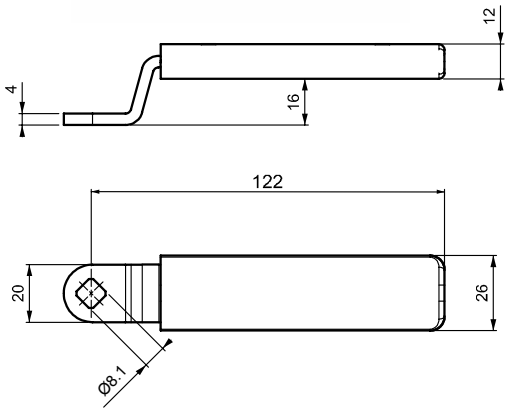
Specifications:
- Material:
  Body: Nylon Black (PA6 30% GF)
  Handle: Nylon Black (PA6 30%GF)
  Cam: Steel
  Strike Plate: Zinc Alloy
- Body and handle are DIN-EN ISO 1043-1 rated

Features:
- Outside locking system provides safety for pressurized doors
- Roller style cam requires less force for locking

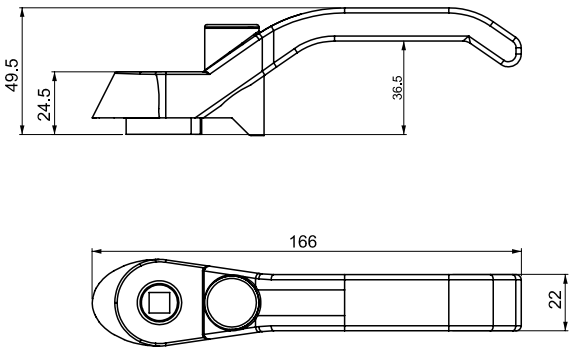
Item No.
01220001

012A Series
Internal Safety Handles

RoHS



Version 1



Version 2

Specifications:
- Material: See Table
- Finish/Color: See Table

Features:
- Ideal for heating and ventilation panels
- Can be used for both left and right hand doors

Item No.	Version	Material	Finish
012A1	1	Steel	Yellow Polyamide Overmold
012A3	2	Nylon	Black

012A Series
Catch Plate

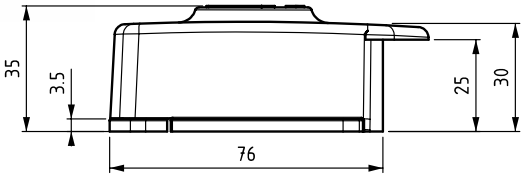
Specifications:
- Material: Zinc Alloy

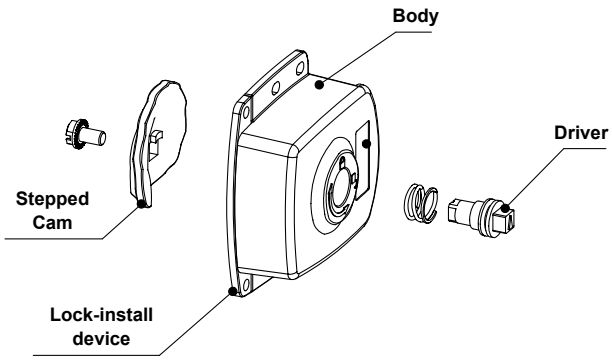
Features:
- Used with locking handles, see series 012 HVAC Locks

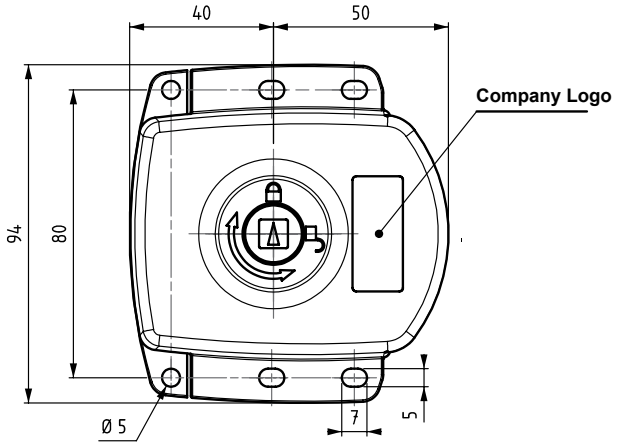
Item No.
012A2

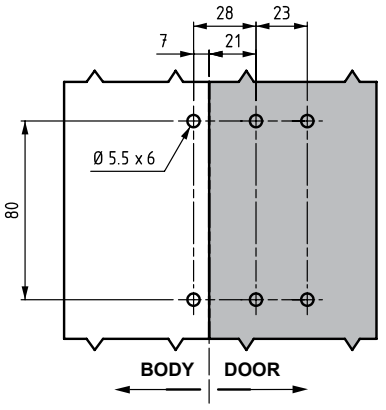
HEAVY DUTY LATCHES

612 Series
HVAC Lock









Cut-Out

Specifications:
- Material:
  Body: Zinc Alloy
  Driver: Zinc Alloy
- Finish: Black Powder Coated

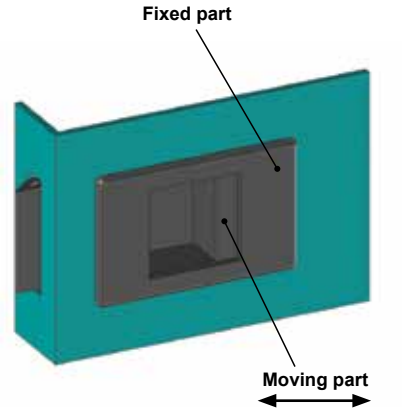
Features:
- Outside locking system provides safety for pressurized doors
- For logo applications please contact Essentra
- Available with alternate drivers and finish

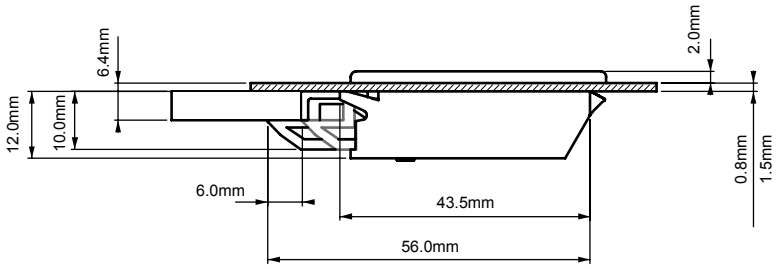
DRIVER KEY SOLD SEPARATELY. SEE PAGES 417 - 418.

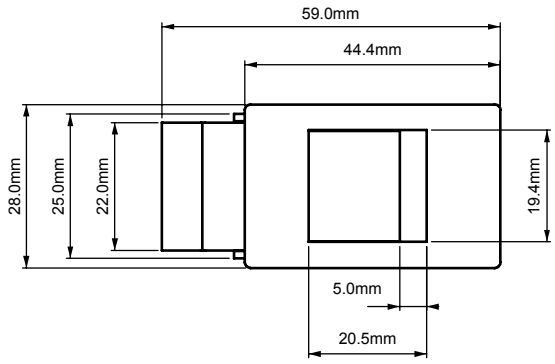
Driver Style		
15	**28**	**38**
5mm Double Bit	8mm Square	8mm Triangle

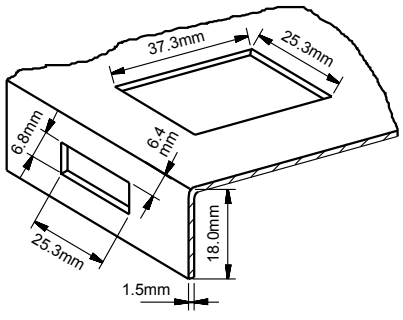
Item No.	Driver Type	Driver Description
612121215	15	5mm Double Bit
612121228	28	8mm Square
612121238	38	8mm Triangle

271 Series
Sliding Lock / Latch









Cut-Out

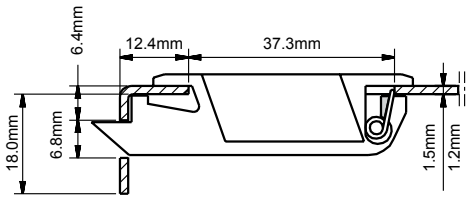
Specifications:
• Material:
Body: Nylon Black (PA6 30% GF)
Spring: Stainless Steel

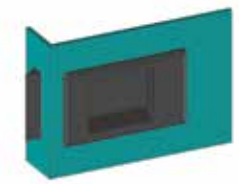
Features:
• Two-piece design eliminates paint problem on doors
• Ideal for small metal machinery covers
• Easy assembly with clips on body
• Suitable for panel thickness between 0.8 - 1.5mm
• Key lock available, contact Essentra for details

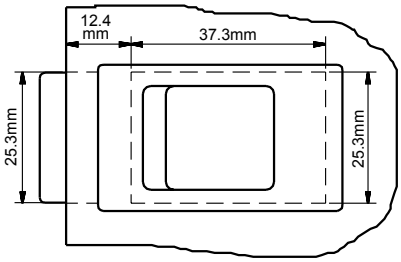
Item No.
271

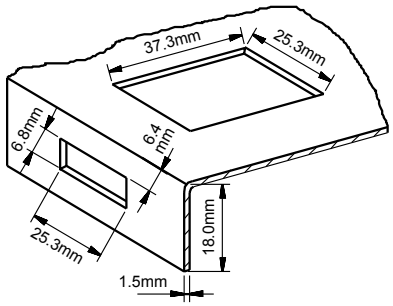
SLIDING LATCHES & CLAMPS

071 Series
Sliding Lock/Latch









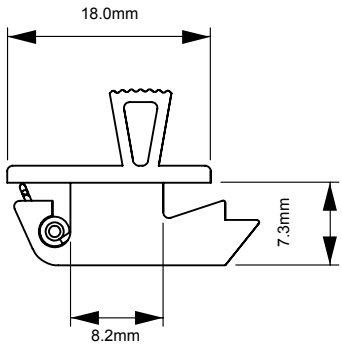
Cut-Out

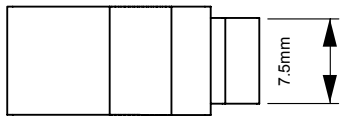
Specifications:
- Material: ABS
  Sping: Stainless Steel
- Finish: Natural

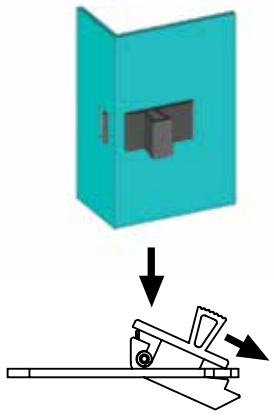
Features:
- Ideal for small metal machinery covers
- Easy Installation
- Long-lasting stainless steel spring

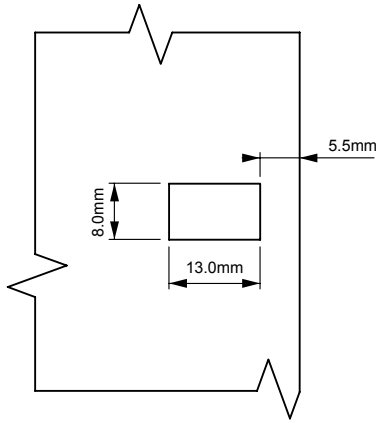
Item No.	Door Thickness (DT) mm
07112	0.8 - 1.2
07115	1.2 - 1.5

171 Series
Mini Sliding Locks









Cut-Out

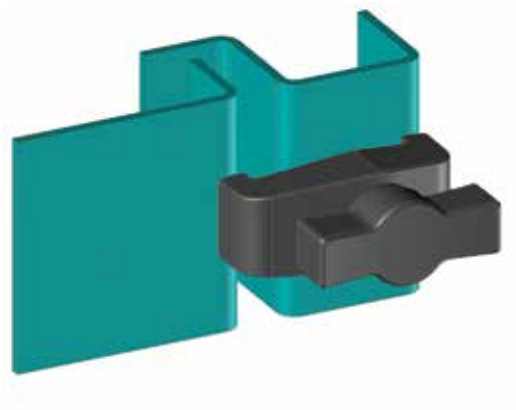
Specifications:
- Material:
  Body: ABS, Black
  Spring: Stainless Steel

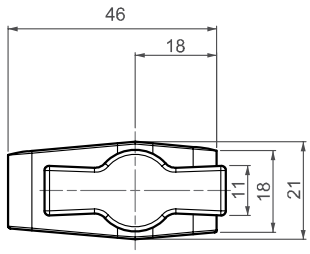
Features:
- Suitable for small doors and inside panels

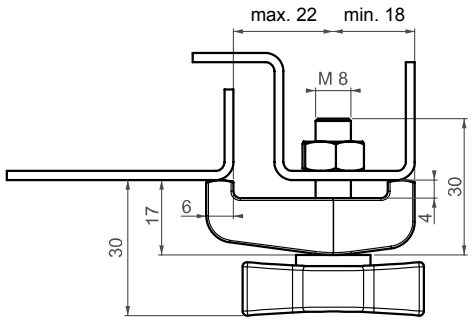
Item No.	Door Thickness (DT) mm
171	0.8 - 1.5

462 Series
Bridge Clamps / Latches

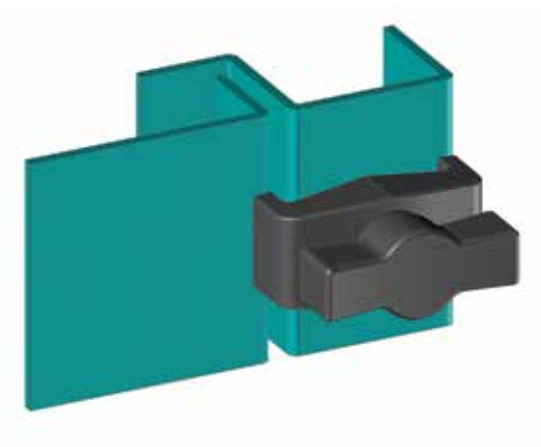
Version 1

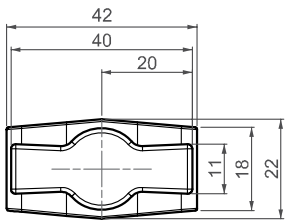


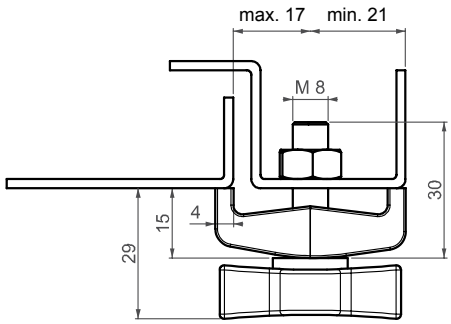




Version 2







Specifications:
• Material:
Housing: Nylon Black (PA6 30% GF)
Knob: Nylon Black (PA6 30% GF)
Screw: Steel

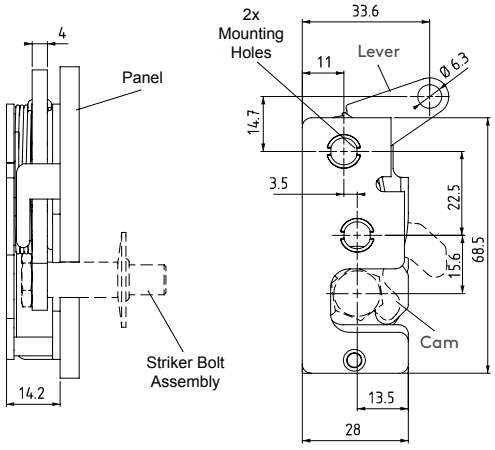
Features:
• Ideal applications for heating and ventilation panels

Item No.	Version Type
4621	1
4622	2

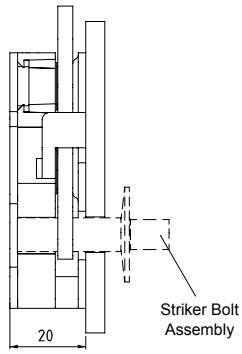
ROTARY LATCHES

2800 Series
Rotary Latches - Concealed Mini Version

RoHS



Standard Version



Bumper Version
(Dimensions same as standard version except as shown)

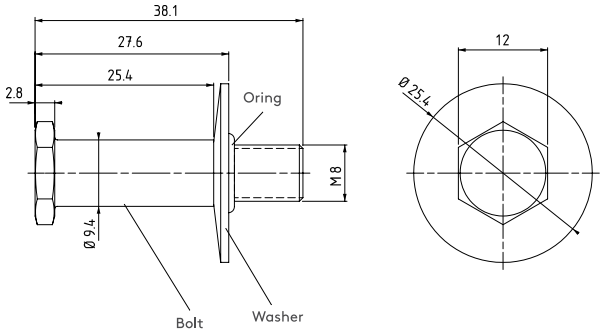
Specifications:
- Material: Steel
- Finish: Zinc Plated

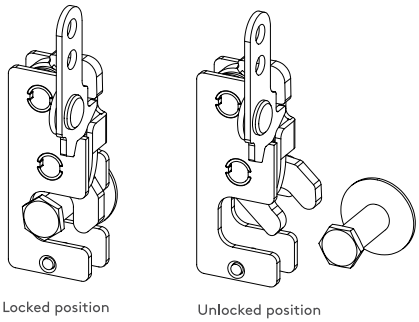
Features:
- Push-to-close operation
- Hand-Actuated
- Striker Bolt sold separately, see page 435
- Please contact Essentra for alternate lever types (Bottom, Top, In Line, Perpendicular and Two Point)

Item No.	Version	Mounting Type	Actuation	Hand Operation
28001411001	Standard	7.2mm hole	Single Stage	Right
28001411002	Standard	7.2mm hole	Single Stage	Left
28001421001	Standard	M6 X 1 Thread	Single Stage	Right
28001421002	Standard	M6 X 1 Thread	Single Stage	Left
28001431001	Standard	1/4-20 Thread	Single Stage	Right
28001431002	Standard	1/4-20 Thread	Single Stage	Left
28001412001	Standard	7.2mm hole	Two Stage	Right
28001412002	Standard	7.2mm hole	Two Stage	Left
28001422001	Standard	M6 X 1 Thread	Two Stage	Right
28001422002	Standard	M6 X 1 Thread	Two Stage	Left
28001432001	Standard	1/4-20 Thread	Two Stage	Right
28001432002	Standard	1/4-20 Thread	Two Stage	Left
28002411001	Bumper	7.2mm hole	Single Stage	Right
28002411002	Bumper	7.2mm hole	Single Stage	Left
28002421001	Bumper	M6 X 1 Thread	Single Stage	Right
28002421002	Bumper	M6 X 1 Thread	Single Stage	Left
28002431001	Bumper	1/4-20 Thread	Single Stage	Right
28002431002	Bumper	1/4-20 Thread	Single Stage	Left
28002412001	Bumper	7.2mm hole	Two Stage	Right
28002412002	Bumper	7.2mm hole	Two Stage	Left
28002422001	Bumper	M6 X 1 Thread	Two Stage	Right
28002422002	Bumper	M6 X 1 Thread	Two Stage	Left
28002432001	Bumper	1/4-20 Thread	Two Stage	Right
28002432002	Bumper	1/4-20 Thread	Two Stage	Left

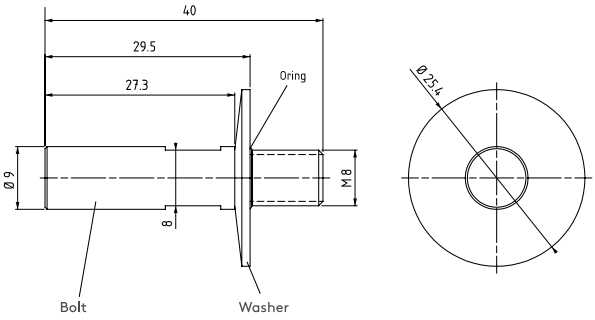
SB Series
Striker Bolt - For Concealed Mini Rotary Latch

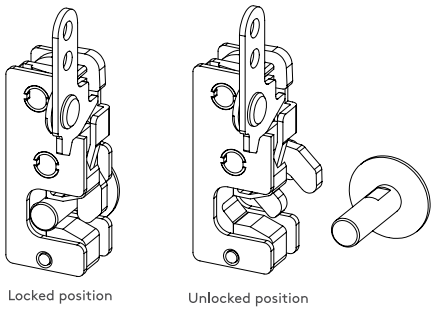
Version 1





Version 2





Specifications:
- Material: Steel
- Finish: Zinc Plated

Features:
- Used with Rotary Latch system, see series 2800
- Standard version SB1 is used with 2800 Series Standard Hand Actuated Latches
- Bumper version SB2 is used with 2800 Series Bumper Hand Actuated Latches

Item No.	Version	Description
SB1	1	Standard Rotary Latch
SB2	2	Bumper Rotary Latch

ESSENTIAL SOLUTIONS DELIVERED

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sales@essentracomponents.com

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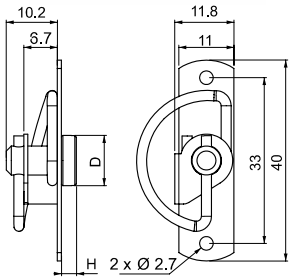
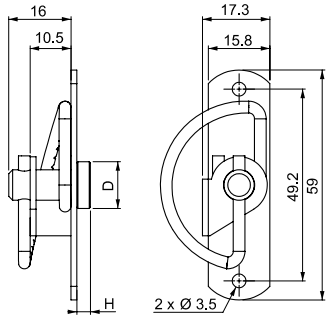
866 561 6617

SPECIALTY LATCHES & TOGGLE CLAMPS

045 Series
Compression Spring Latch



Version 1 - Small

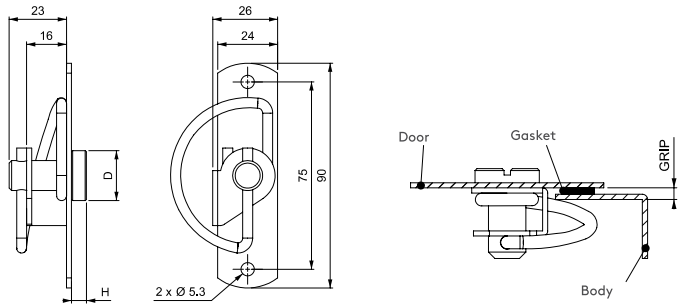


Version 2 - Medium

Specifications:
- Material:
  Body: See Table
  Driver: See Table
  Spring: Stainless Steel

Features:
- Fix small panels to frames with ease
- Quarter-turn locking feature
- For doors with a bend of 24mm

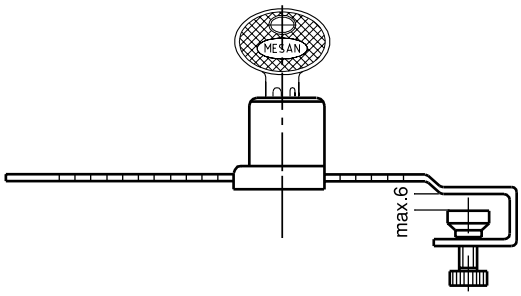
Driver Style		Size	Ø D	H
	Slot	Small	10.0	3.0
		Medium	12.0	3.5
		Large	20.0	5.0
	Knurled	Small	10.5	12.0
		Medium	13.0	17.5



Version 3 - Large

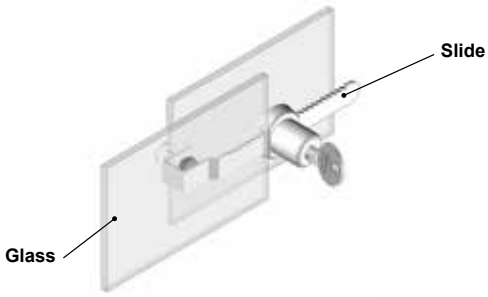
Item No.	Version	Body/Driver Material	Finish	Driver Description	Driver Style	Cam Description
0451401241	1	Stainless Steel	Natural	Slot, Small	12	Smooth Spring
0451401341	1	Stainless Steel	Natural	Knurled, Small	13	Smooth Spring
0452402242	2	Stainless Steel	Natural	Slot, Medium	22	Smooth Spring
0452402252	2	Stainless Steel	Natural	Slot, Medium	22	Serrated Spring
0452402342	2	Stainless Steel	Natural	Knurled, Medium	23	Smooth Spring
0452402352	2	Stainless Steel	Natural	Knurled, Medium	23	Serrated Spring
0453403243	3	Stainless Steel	Natural	Slot, Large	32	Smooth Spring
0453403253	3	Stainless Steel	Natural	Slot, Large	32	Serrated Spring
0451631241	1	Steel	Chrome Plated	Slot, Small	12	Smooth Spring
0451631341	1	Steel	Chrome Plated	Knurled, Small	13	Smooth Spring
0452632242	2	Steel	Chrome Plated	Slot, Medium	22	Smooth Spring
0452632252	2	Steel	Chrome Plated	Slot, Medium	22	Serrated Spring
0452632342	2	Steel	Chrome Plated	Knurled, Medium	23	Smooth Spring
0452632352	2	Steel	Chrome Plated	Knurled, Medium	23	Serrated Spring
0453633243	3	Steel	Chrome Plated	Slot, Large	32	Smooth Spring
0453633253	3	Steel	Chrome Plated	Slot, Large	32	Serrated Spring

020 Series
Sliding Glass Door Latches



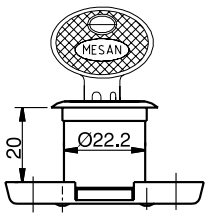
Specifications:
- Material:
  Body: Zinc Alloy
  Slide: Stainless Steel
  Finish: Chrome Plated
  Strike Plate: Steel, Zinc Plated
- Two keys supplied with every lock
- Zinc Alloy is DIN-EN 1774 rated

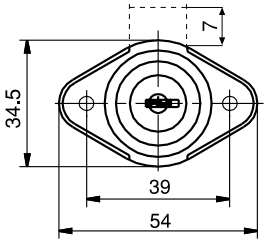
Features:
- Ideal application for glass cabinets and show cases

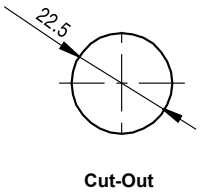


Item No.	Cylinder Description
02001	Keyed Alike
02002	Keyed to Differ

030 Series
Furniture Locks

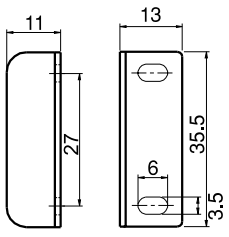






Cut-Out

Strike Plate



Specifications:
- Material:
  Body: Zinc Alloy
  Cam: Steel
  Finish: Chrome Plated
  Strike Plate: Steel, Zinc Plated
- Zinc Alloy is DIN-EN 1774 rated
- Strike plate sold separately
- Two keys supplied with every lock

Features:
- Ideal application for furniture latching

Item No.	Cylinder Description	Strike Plate Item No.
03001	Keyed Alike	030A1
03002	Keyed to Differ	030A1

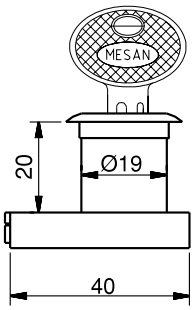
SPECIALTY LATCHES & TOGGLE CLAMPS

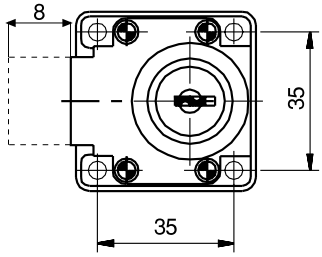
032 Series
Furniture Locks

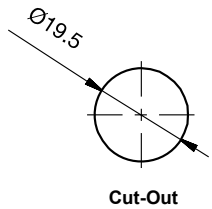
Specifications:
- Material:
  Body: Zinc Alloy
  Cam: Steel
  Finish: Chrome Plated
  Strike Plate: Steel, Zinc Plated
- Zinc Alloy is DIN-EN 1774 rated
- Two keys supplied with every lock

Features:
- Ideal application for furniture latching

Strike Plate - Optional
- Item No. 030A1
- Ordered separately



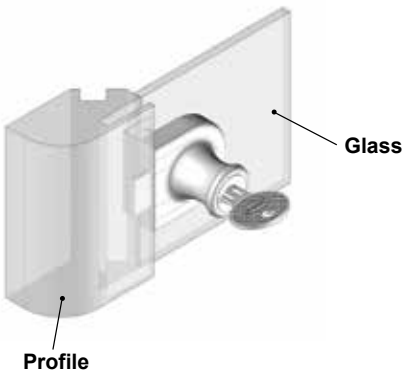




STRIKE PLATE SOLD SEPARATELY, SEE TABLE.

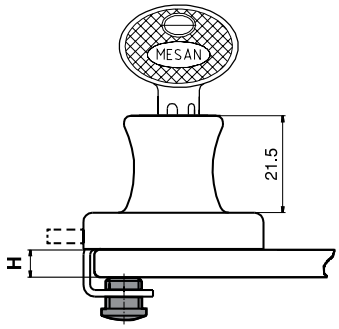
Item No.	Cylinder Description	Strike Plate Item No.
03201	Keyed Alike	030A1
03202	Keyed to Differ	030A1

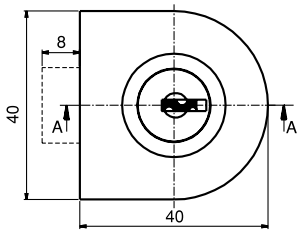
021 Series
Glass Door Locks



Specifications:
- Material:
  Body: Zinc Alloy
  Slide: Stainless Steel
  Finish: Chrome Plated
- Two keys supplied with every lock
- Zinc Alloy is DIN-EN 1774 rated

Features:
- Ideal application for glass cabinets and display cases





Item No.	Cylinder Type	Glass Thickness (H)
02101	01	4mm - 7mm
02102	02	4mm - 7mm

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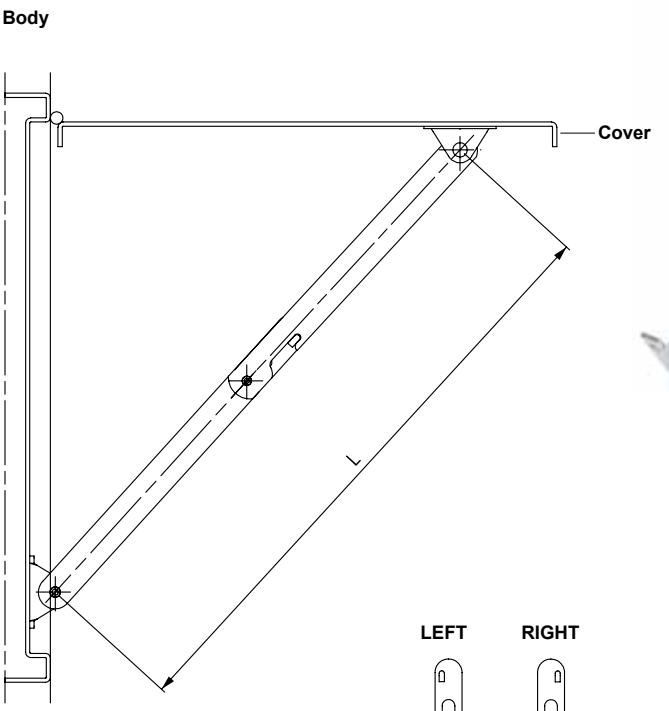
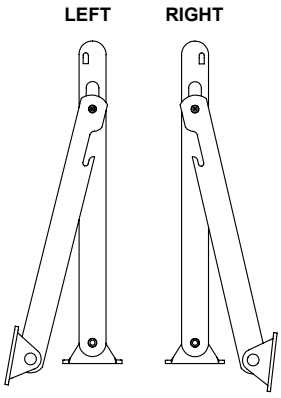
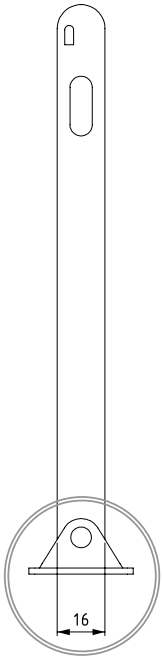
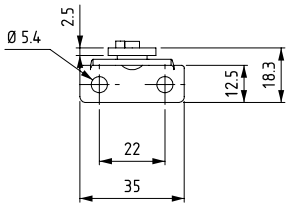
079 Series
Cover Stay Hinge









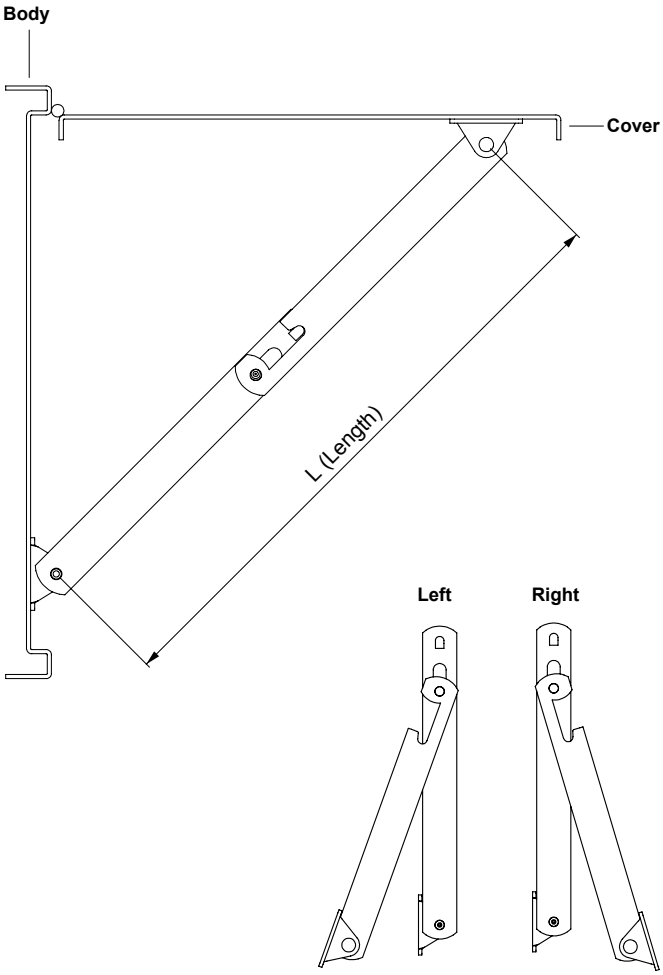
Specifications:
- Material: See Table
- Finish: See Table

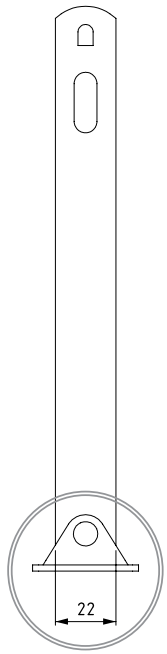
Features:
- Applications for electrical panels and machinery covers
- Suitable for left and right hand applications

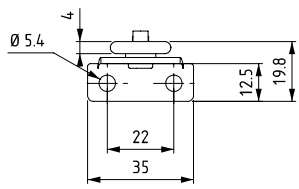
Item No.	Material	Finish	Length (L)	Hand Operation
07940135001	Stainless Steel	Natural	135	Right
07940135002	Stainless Steel	Natural	135	Left
07940202001	Stainless Steel	Natural	202	Right
07940202002	Stainless Steel	Natural	202	Left
07940292001	Stainless Steel	Natural	292	Right
07940292002	Stainless Steel	Natural	292	Left
07963135001	Steel	Zinc Plated	135	Right
07963135002	Steel	Zinc Plated	135	Left
07963202001	Steel	Zinc Plated	202	Right
07963202002	Steel	Zinc Plated	202	Left
07963292001	Steel	Zinc Plated	292	Right
07963292002	Steel	Zinc Plated	292	Left

COVER STAYS

279 Series
Cover Stay Hinge





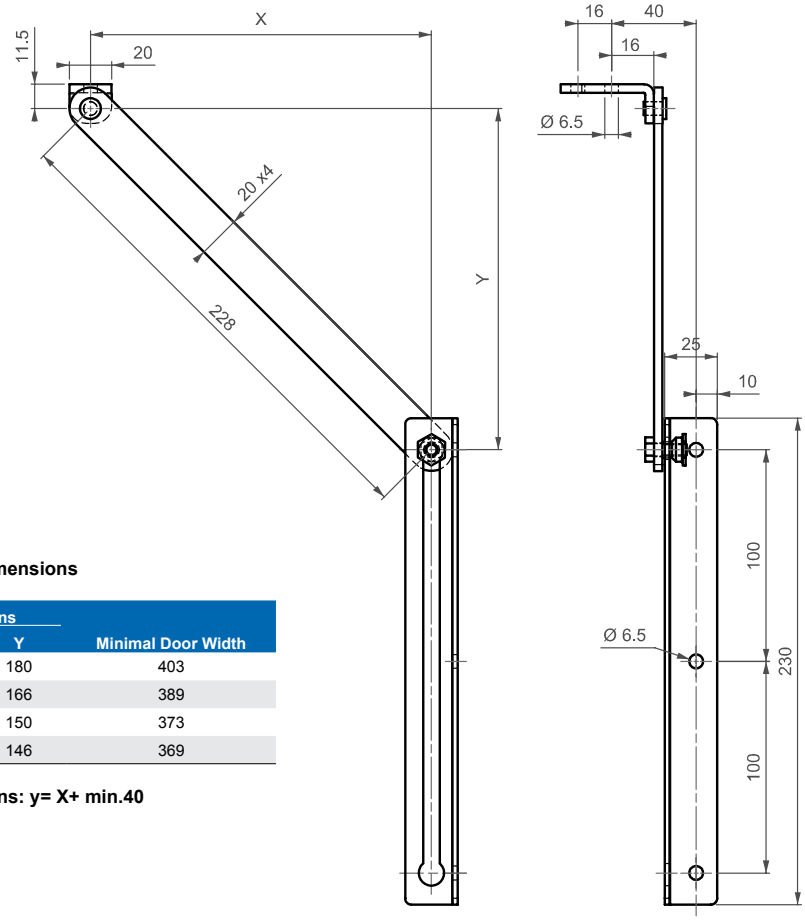


Specifications:
- Material: See Table
- Finish: See Table

Features:
- Suitable for heavy-duty applications
- Manufactured using 4mm thick steel

Item No.	Material	Finish	Length (L)	Hand Operation
27940135001	Stainless Steel	Natural	135	Right
27940135002	Stainless Steel	Natural	135	Left
27940202001	Stainless Steel	Natural	202	Right
27940202002	Stainless Steel	Natural	202	Left
27940292001	Stainless Steel	Natural	295	Right
27940292002	Stainless Steel	Natural	292	Left
27963135001	Steel	Zinc Plated	135	Right
27963135002	Steel	Zinc Plated	135	Left
27963202001	Steel	Zinc Plated	202	Right
27963202002	Steel	Zinc Plated	202	Left
27963292001	Steel	Zinc Plated	292	Right
27963292002	Steel	Zinc Plated	292	Left

179 Series
Cover Stay Hinge



Installation Dimensions

Opening Angle	Dimensions X	Y	Minimal Door Width
140°	140	180	403
120°	120	166	389
110°	110	150	373
100°	100	146	369

For other configurations: y= X+ min.40

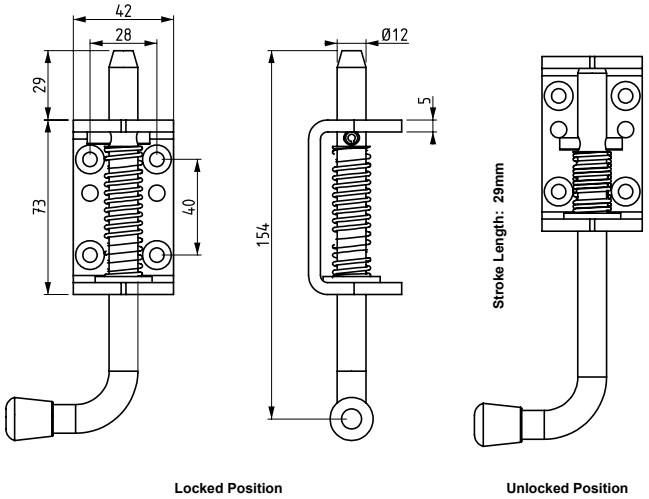
Specifications:
• Material: See Table
• Finish: See Table

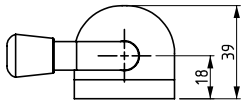
Features:
• Cover stay with automatic lock to keep the door proped open
• Suitable for left and right hand applications

Item No.	Material	Finish
17940	Stainless Steel	Natural
17963	Steel	Zinc Plated

SPECIALTY LATCHES & TOGGLE CLAMPS

2750 Series
Spring Loaded Latches



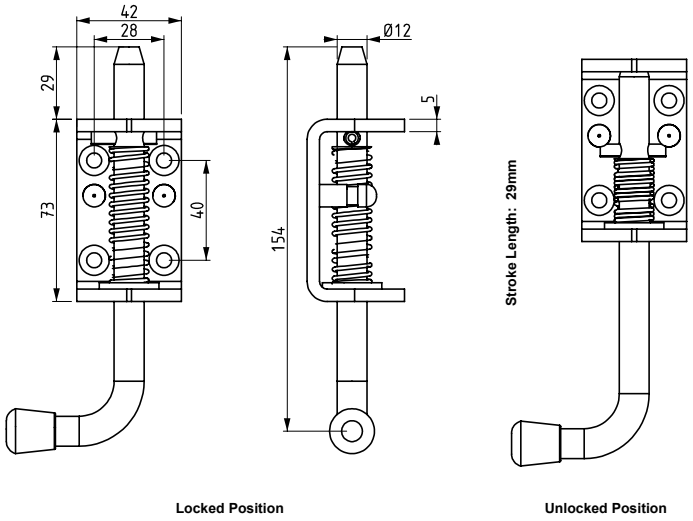


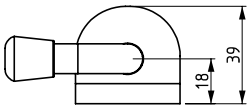
Specifications:
• Material:
Body: Steel
Pin: Steel
Finish: Zinc Plated

Features:
• Ideal for metal and wood applications

Item No.
275063

2751 Series
Spring Loaded Latches





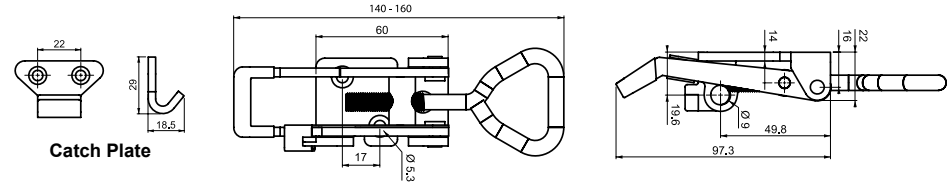
Specifications:
• Material:
Body: Steel
Pin: Steel
Finish: Zinc Plated

Features:
• Ideal for metal and wood applications

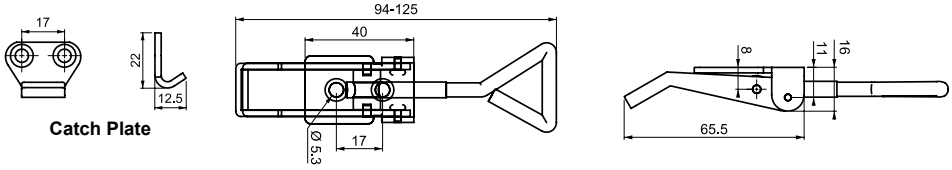
Item No.
275163

340 Series
Toggle Latch

Specifications:
- Material: Steel
- Finish: Zinc Plated



Item No.
34000135



Item No.
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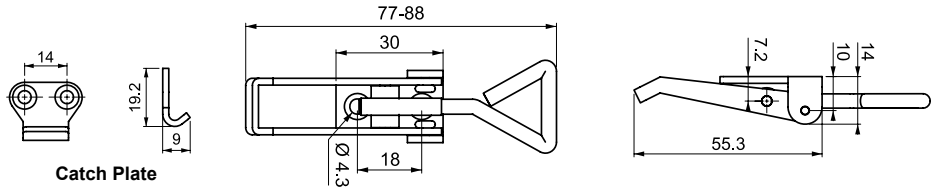

Item No.
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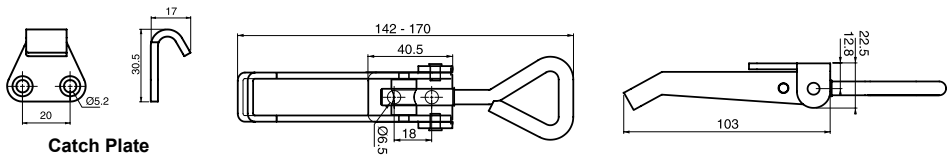
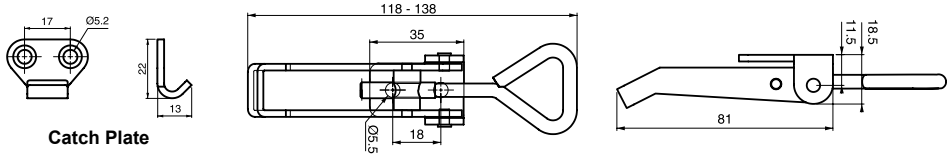
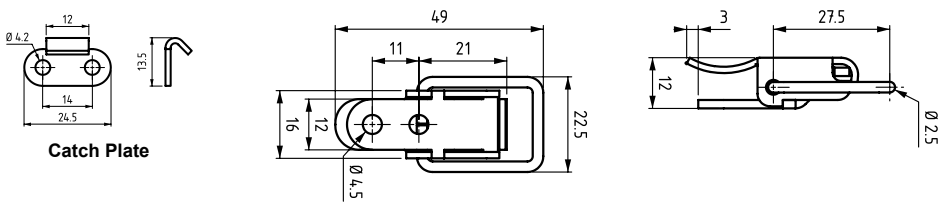


Item No.
2702



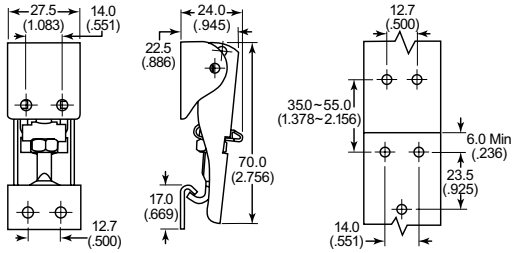
Item No.
2701



Item No.
2700

SPECIALTY LATCHES & TOGGLE CLAMPS

LAAD Series
Adjustable Draw Latch

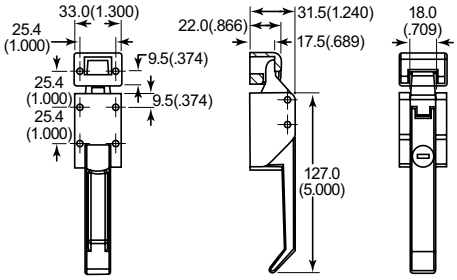


Specifications:
- Material: See Table

Features:
- Adjustable design
- Secondary lock button to prevent accidental opening
- Designed for M4 fitting (not supplied)

Item No.	Material / Finish
LAAD100S	Stainless Steel, Natural
LAAD100A	Steel, Zinc Plated

LAOC Series
Over Center Compression Latches



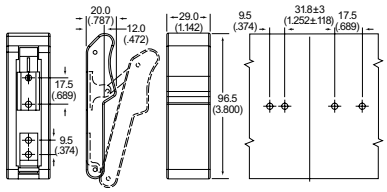
Specifications:
- Material:
  Base: Zinc Alloy
  Internal Pin: Stainless Steel
- Finish: Black Powder Coated

Features:
- Keyed to Differ
- Designed for M5 fittings (not supplied)

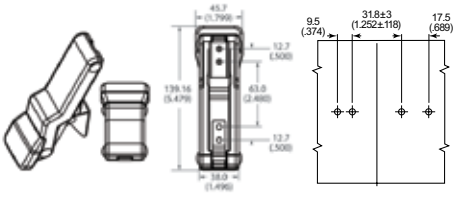
Item No.	Type
LAOC100A	Locking
LAOC200A	Non-Locking

LAFL Series
Flexible Over Center Latch

Type 1



Type 2



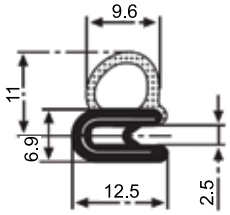
Specifications:
- Material:
  Base: TPE
  Bracket and Keeper: Stainless Steel

Features:
- Low profile design
- Non-corrosive
- Designed for M4 or #8 Screws (not included)

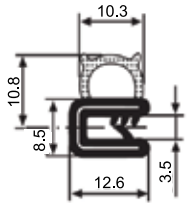
Item No.	Type
LAFL100A	1
LAFL200A	2

Gaskets - Profile Sealing

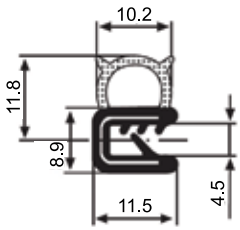
34009001



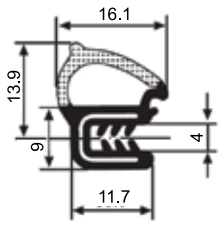
34009007



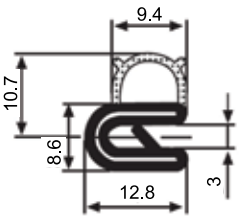
34009002



34009010



34009003



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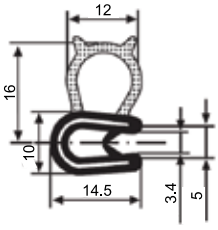
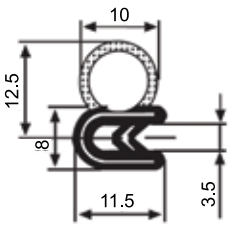
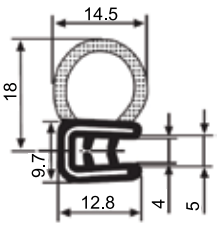


34009004



34009029



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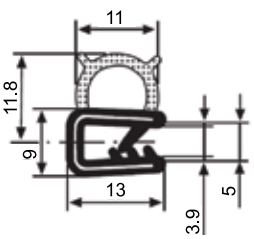
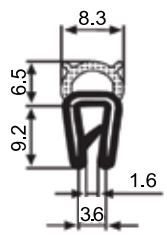


34009103



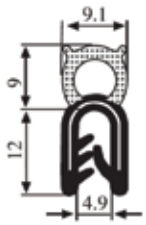
Specifications:
- Material: EPDM
- Color: Black

Item No.	Grip Range mm	Roll Length ft	Roll Length m	Pack Qty.
34009001	1.0 - 2.0	328	100	1
34009002	1.0 - 3.0	328	100	1
34009003	1.0 - 2.5	328	100	1
34009004	1.0 - 2.0	328	100	1
34009006	1.0 - 3.0	328	100	1
34009007	1.0 - 2.0	328	100	1
34009010	1.5 - 3.0	164	50	1
34009014	1.0 - 3.0	164	50	1
34009029	1.5 - 3.5	164	50	1
34009103	1.0 - 2.0	328	100	1

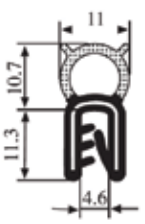
GASKETS

Gaskets - Profile Sealing

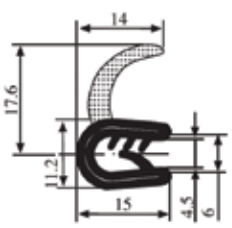
34009105



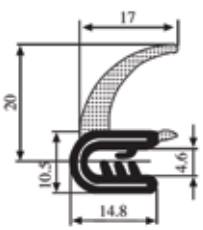
34009107



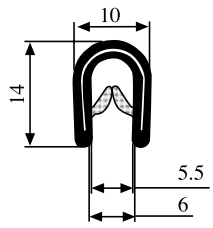
34009202



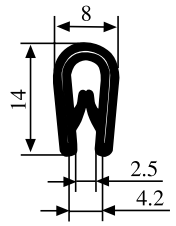
34009203



34009516



34009522



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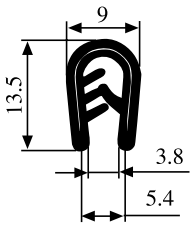
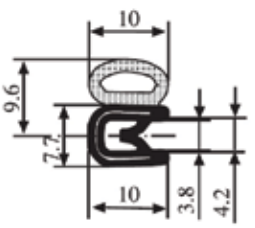
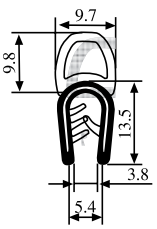


34009701



34009802



Specifications:
- Material: See Table
- Color: Black

Item No.	Material	Grip Range mm	Roll Length ft	Roll Length m	Pack Qty.
34009105	EPDM	1.0 - 3.5	328	100	1
34009107	EPDM	1.0 - 3.5	328	100	1
34009202	EPDM	2.0 - 4.0	164	50	1
34009203	EPDM	1.0 - 3.5	164	50	1
34009516	PVC	1.0 - 4.0	492	150	1
34009522	PVC	1.0 - 3.0	492	150	1
34009523	PVC	1.5 - 4.0	492	150	1
34009701	PVC/EPDM	1.0 - 2.0	328	100*	1
34009802	PVC/EPDM	1.5 - 4.0	328	100	1

***Roll Length is 2 separate 50m rolls**

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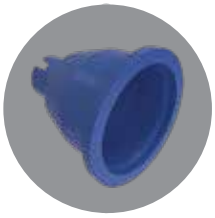
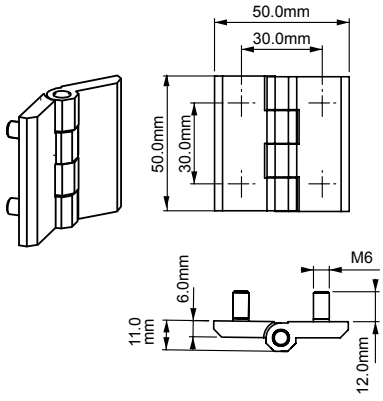


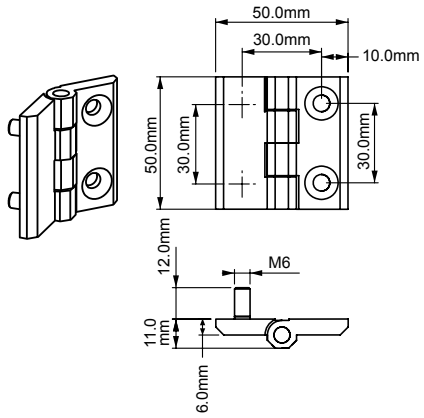
SURFACE MOUNT HINGES

099 Series
Surface Mount Hinges

Version 1



Version 2



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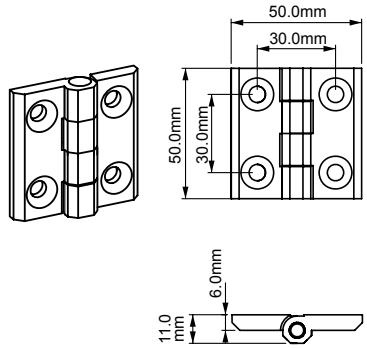
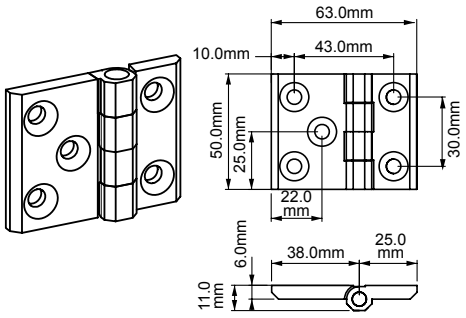
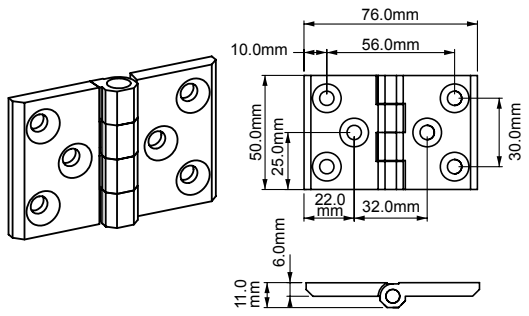


Version 5



Version 6



Specifications:
- Material: See Table
- Pin Material: See Table
- Finish: See Table

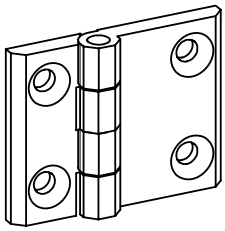
Features:
- Generally used for plain/flush-mounted doors
- Maximum hinge rotation 270°
- Suitable for left and right hand applications
- Available in three sizes, through-hole and stud version

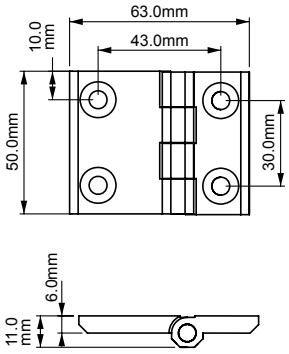
Item No.	Material	Finish	Version
099111	Zinc Alloy	Chrome Plated	1
099112	Zinc Alloy	Chrome Plated	2
099114	Zinc Alloy	Chrome Plated	4
099115	Zinc Alloy	Chrome Plated	5
099116	Zinc Alloy	Chrome Plated	6
099121	Zinc Alloy	Black Powder Coated	1
099122	Zinc Alloy	Black Powder Coated	2
099124	Zinc Alloy	Black Powder Coated	4
099125	Zinc Alloy	Black Powder Coated	5
099126	Zinc Alloy	Black Powder Coated	6
099404	Stainless Steel	Electropolished	4

(Continued on next page)

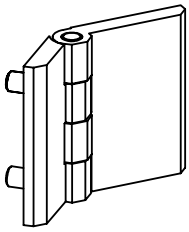
099 Series
Surface Mount Hinges (Continued)

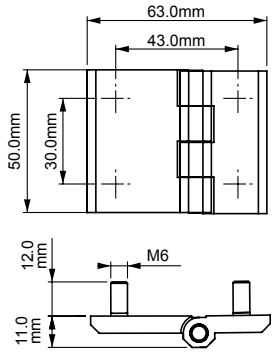
Version 7



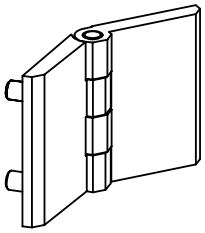


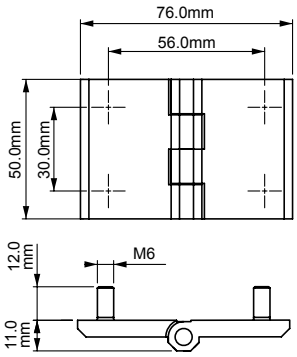
Version 8



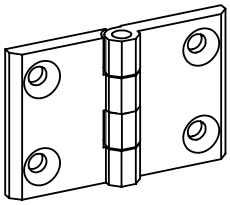


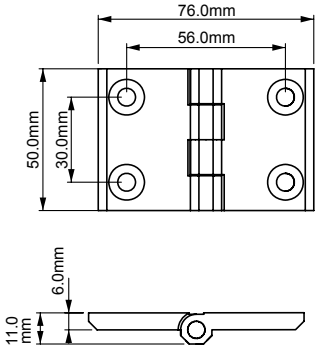
Version 9





Version 10





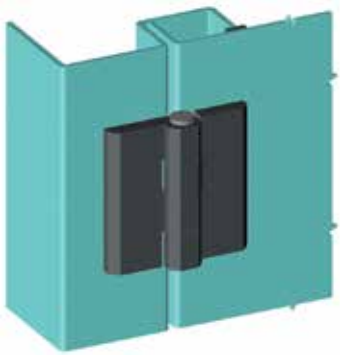
Specifications:
- Material: See Table
- Pin Material: Stainless Steel
- Finish: See Table

Features:
- Generally used for plain/flush-mounted doors
- Maximum hinge rotation 270°
- Suitable for left and right hand applications
- Available in three sizes, through-hole and stud version

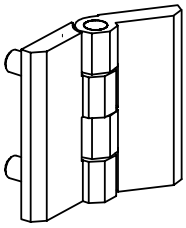
Item No.	Material	Finish	Version
099117	Zinc Alloy	Chrome Plated	7
099118	Zinc Alloy	Chrome Plated	8
099119	Zinc Alloy	Chrome Plated	9
0991110	Zinc Alloy	Chrome Plated	10
099127	Zinc Alloy	Black Powder Coated	7
099128	Zinc Alloy	Black Powder Coated	8
099129	Zinc Alloy	Black Powder Coated	9
0991210	Zinc Alloy	Black Powder Coated	10
099407	Stainless Steel	Electropolished	7
0994010	Stainless Steel	Electropolished	10

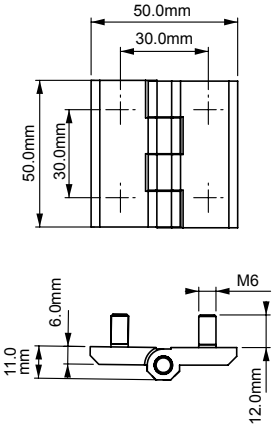
SURFACE MOUNT HINGES

199 Series
Surface Mount Hinges



Version 1





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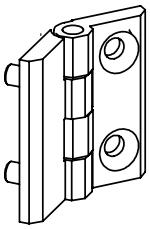
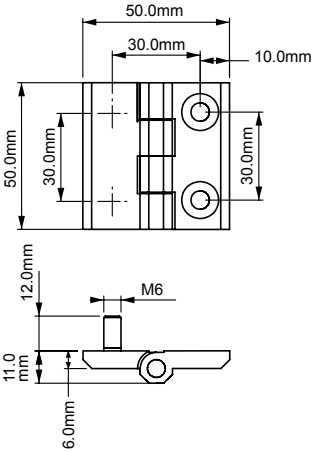
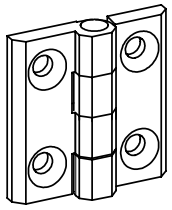
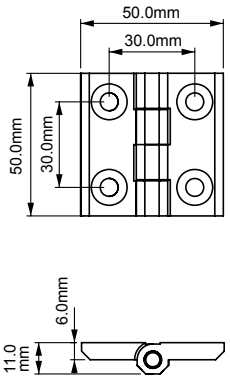




Version 3





Specifications:
• Material:
Body: Nylon Black (PA6 30% GF)
Pin: Stainless Steel

Features:
• Generally used for plain/flush-mounted doors
• Maximum hinge rotation 270°
• Suitable for left and right hand applications

Item No.	Version
199201	1
199202	2
199203	3

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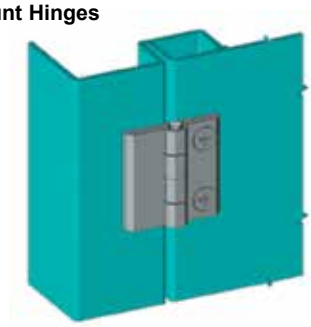
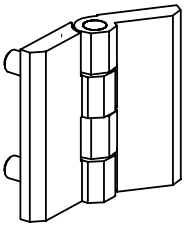
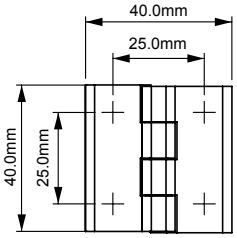
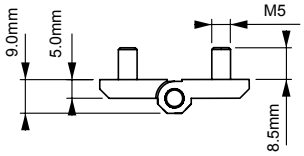
299 Series
Surface Mount Hinges



Version 1







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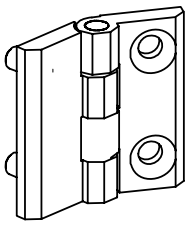
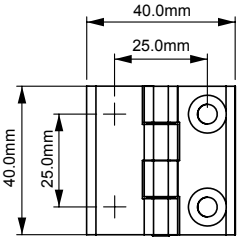
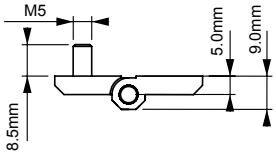
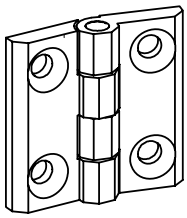
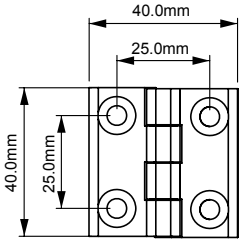


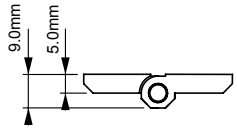




Version 3







Specifications:
- Material:
  Body: See Table
  Pin: Stainless Steel
- Body is DIN-EN 1774 rated

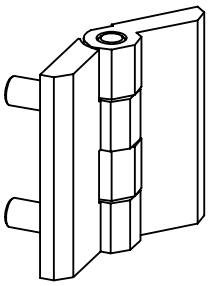
Features:
- Generally used for plain/flush-mounted doors
- Maximum hinge rotation 270°
- Suitable for left and right hand applications

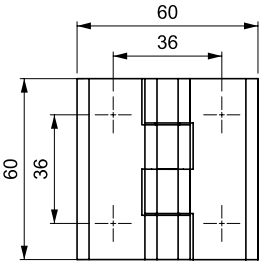
Item Number	Version	Material	Color / Finish
299201	1	Nylon	Black
299202	2	Nylon	Black
299203	3	Nylon	Black
299111	1	Zinc Alloy	Chrome Plated
299112	2	Zinc Alloy	Chrome Plated
299113	3	Zinc Alloy	Chrome Plated
299121	1	Zinc Alloy	Black Powder Coated
299122	2	Zinc Alloy	Black Powder Coated
299123	3	Zinc Alloy	Black Powder Coated
299403	3	Stainless Steel	Electropolished

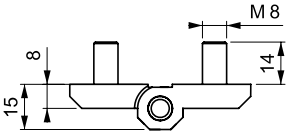
SURFACE MOUNT HINGES

399 Series
Surface Mount Hinges

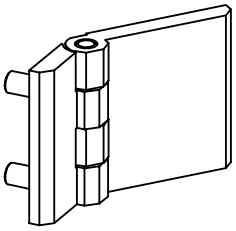
Version 1

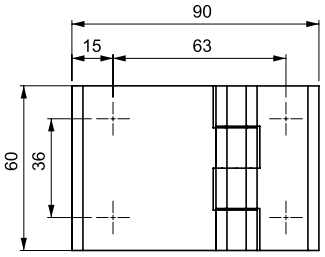


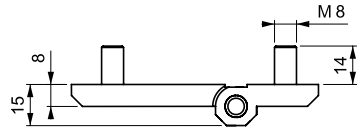




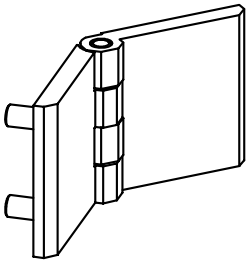
Version 2

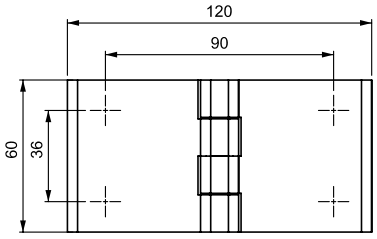


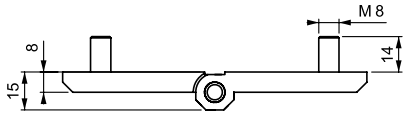




Version 3







Specifications:
- Material: Zinc Alloy
  Pin Material: Stainless Steel
- Finish: See Table

Features:
- Generally used for plain/flush-mounted isolated heavy doors
- Maximum hinge rotation 270°
- Suitable for left and right hand applications
- Please contact Essentra for Stainless Steel versions

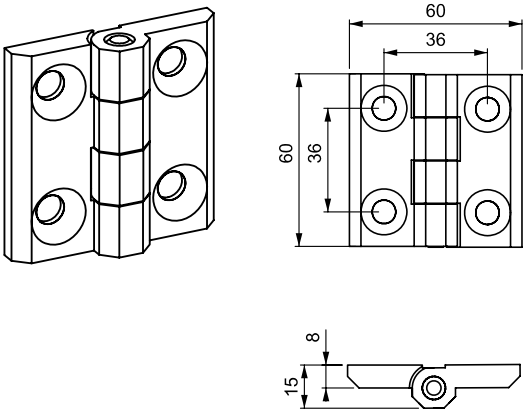
Item No.	Finish	Version
399111	Chrome Plated	1
399112	Chrome Plated	2
399113	Chrome Plated	3
399121	Black Powder Coated	1
399122	Black Powder Coated	2
399123	Black Powder Coated	3

(Continued on next page)

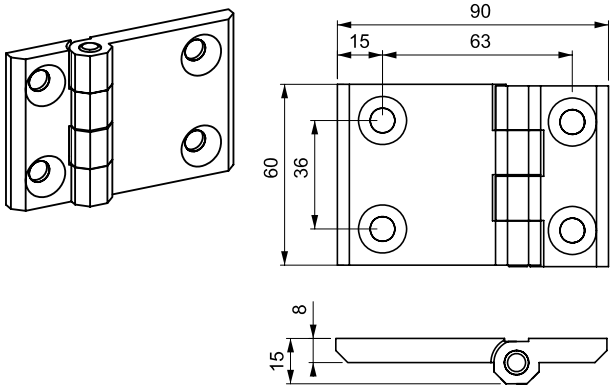
399 Series
Surface Mount Hinges (Continued)

Suitable for LH RH Left or Right Hand

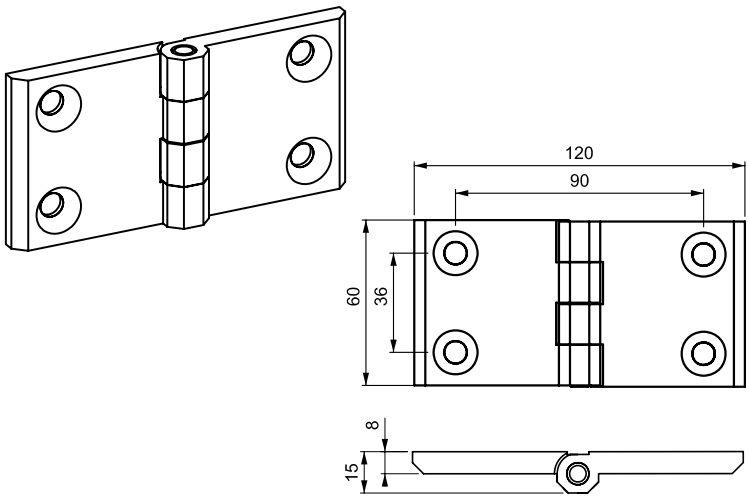
Version 4



Version 5



Version 6



Specifications:
- Material: Zinc Alloy
  Pin Material: Stainless Steel
- Finish: See Table

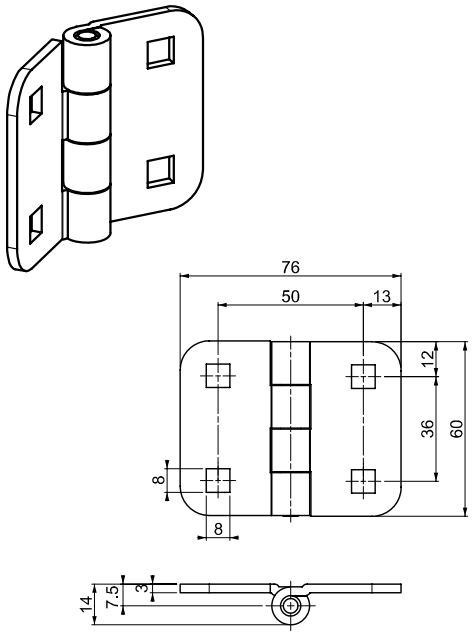
Features:
- Generally used for plain/flush-mounted isolated heavy doors
- Maximum hinge rotation 270°
- Suitable for left and right hand applications
- Please contact Essentra for Stainless Steel versions

Item No.	Finish	Version
399114	Chrome Plated	4
399115	Chrome Plated	5
399116	Chrome Plated	6
399124	Black Powder Coated	4
399125	Black Powder Coated	5
399126	Black Powder Coated	6

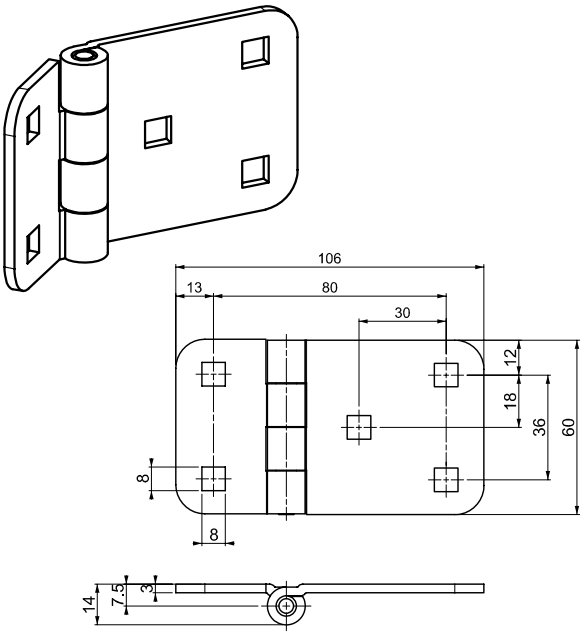
SURFACE MOUNT HINGES

499 Series
Leaf Hinge

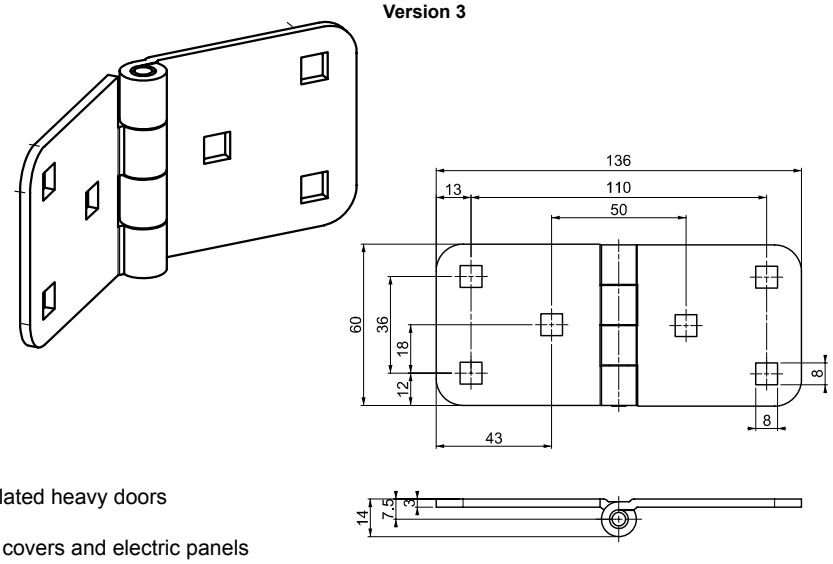
Version 1



Version 2



Version 3

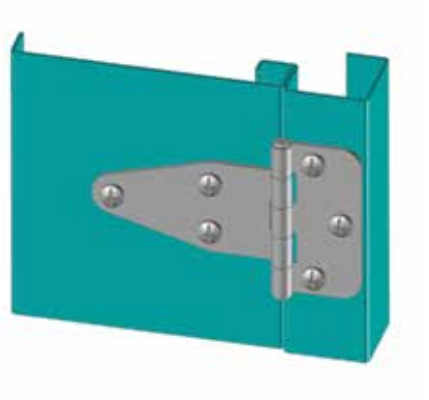


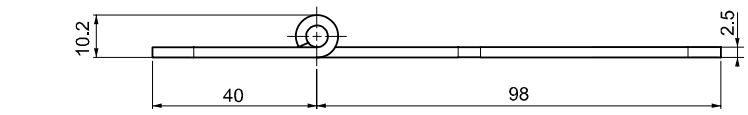
Specifications:
- Material: Steel
  Pin Material: Stainless Steel
- Finish: Black Powder Coated

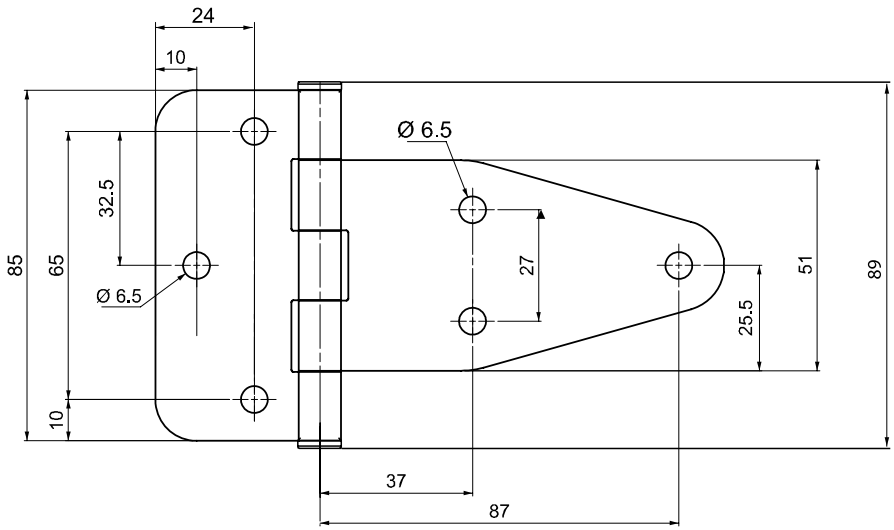
Features:
- Generally used for plain/flush-mounted, isolated heavy doors
- Maximum hinge rotation 270°
- Ideal application for generators, machinery covers and electric panels
- M8 X 12mm coach bolts supplied
- Designed for left and right hand applications

Item No.	Version
499621	1
499622	2
499623	3

599 Series
Leaf Hinge







Specifications:
- Material:
  Body: See Table
  Pin: Stainless Steel
  Finish: See Table
- Bolts are not supplied

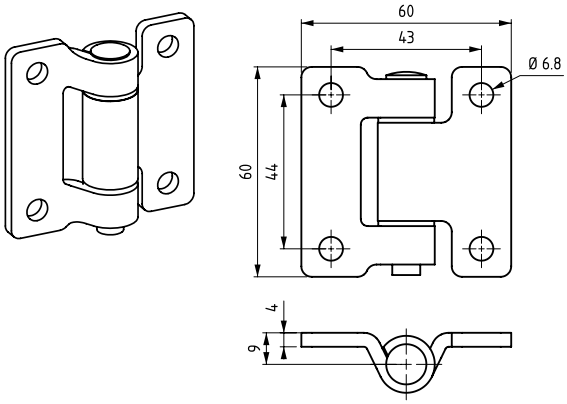
Features:
- Applications: Generators, machinery covers, electric panels
- Maximum hinge rotation 180°
- Both parts are attached by screws or nuts and bolts
- Please contact Essentra for Zinc Plated version

Item No.	Material	Finish
59962	Steel	Black Powder Coated
59940	Stainless Steel	Natural

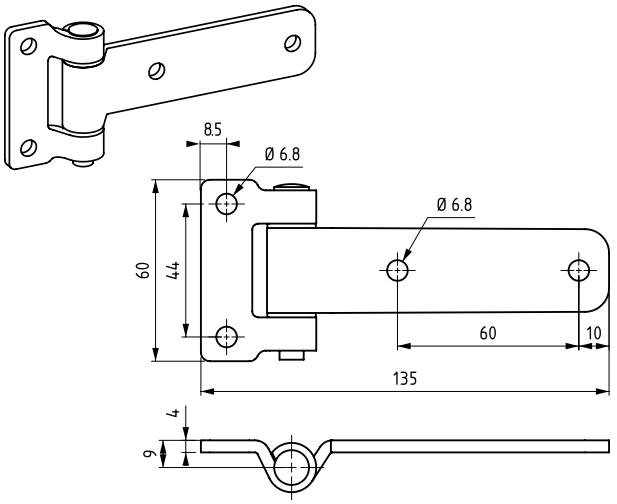
SURFACE MOUNT HINGES

1599 Series
Leaf Hinge

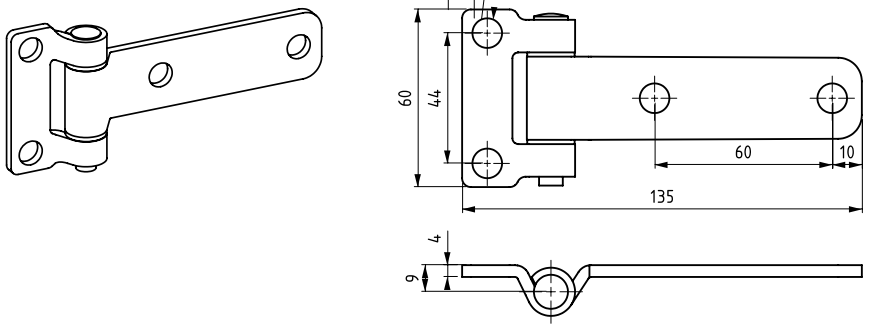
Version 1



Version 2



Version 3



Specifications:
- Material:
  Body: Steel
  Pin: Stainless Steel
- Finish: See Table

Features:
- Generally used for plain/flush mounted, isolated, heavy doors
- Maximum hinge rotation 180°
- Both parts are attached by screws or nuts and bolts
- Applications: Generators, machinery covers, electric panels
- Please contact Essentra for Stainless Steel versions

Item No.	Finish	Version
1599621	Black Powder Coated	1
1599622	Black Powder Coated	2
1599623	Black Powder Coated	3
1599631	Zinc Plated	1
1599632	Zinc Plated	2
1599633	Zinc Plated	3

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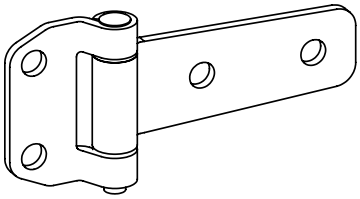
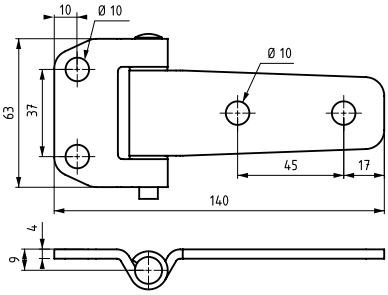
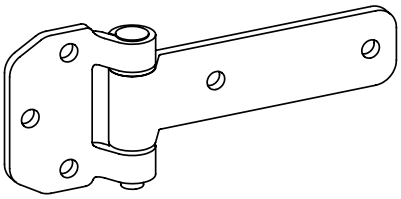
1599 Series
Leaf Hinge (Continued)

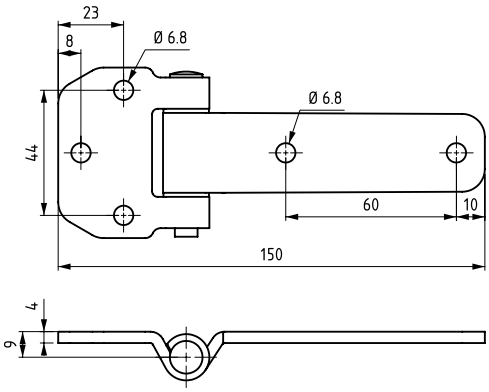
Version 4



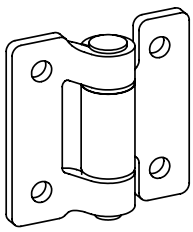


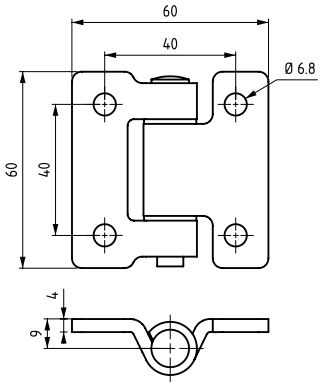
Version 5





Version 6





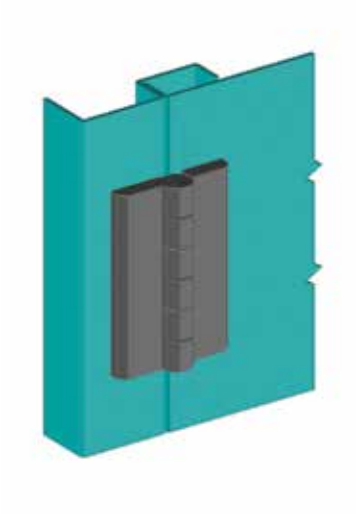
Specifications:
- Material:
  Body: Steel
  Pin: Stainless Steel
- Finish: See Table

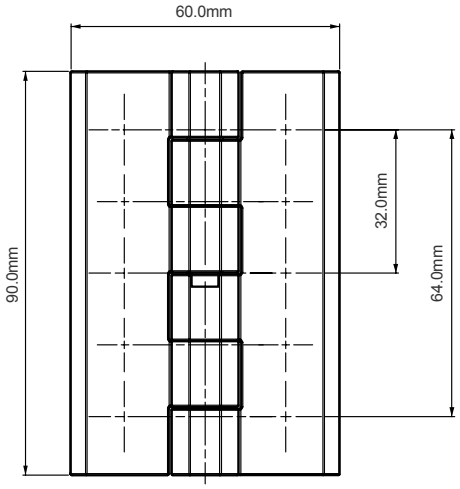
Features:
- Generally used for plain/flush mounted, isolated, heavy doors
- Maximum hinge rotation 180°
- Both parts are attached by screws or nuts and bolts
- Applications: Generators, machinery covers, electric panels
- Please contact Essentra for Stainless Steel versions

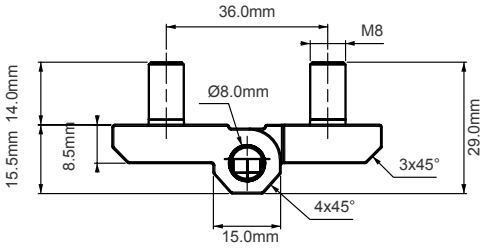
Item No.	Finish	Version
1599624	Black Powder Coated	4
1599625	Black Powder Coated	5
1599626	Black Powder Coated	6
1599634	Zinc Plated	4
1599635	Zinc Plated	5
1599636	Zinc Plated	6

SURFACE MOUNT HINGES

900 Series
Leaf Hinge







Specifications:
- Material: Zinc Alloy
  Pin Material: Stainless Steel
  Screw: Steel
- Finish: See Table

Features:
- Generally used for plain flush mounted doors and insulated panels
- Maximum hinge rotation 270°
- Installation with 6 M8 bolts
- Ideal for electric panels and machinery cover applications

Item No.	Finish
90011	Chrome Plated
90012	Black Powder Coated

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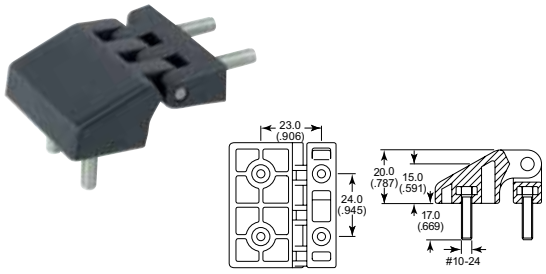
HISF Series
Surface Mount Hinges - Various

Type 1



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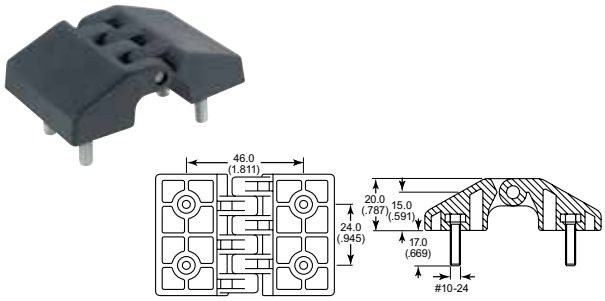

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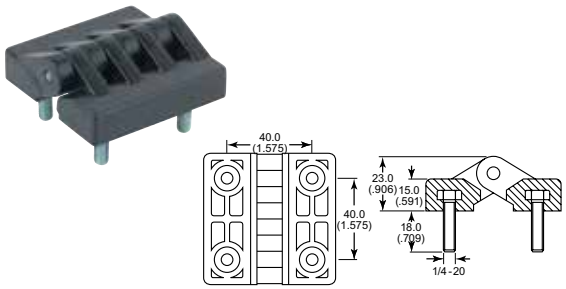
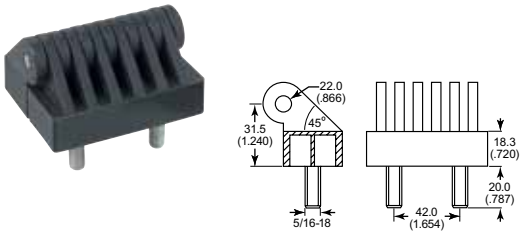


Type 4



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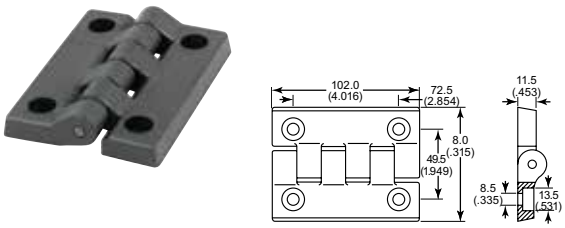

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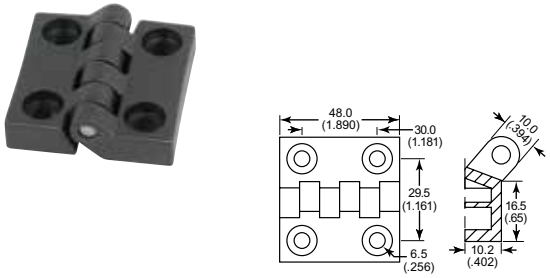

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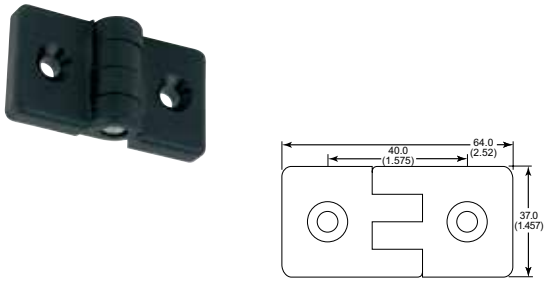
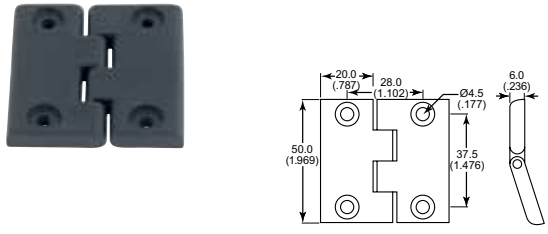


Type 8



Specifications:
- Material: Nylon Black (PA, Glass-Filled)

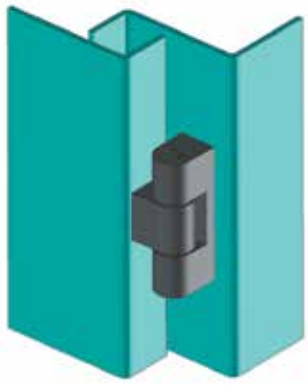
Features:
- Offered with threaded studs or thru hole versions

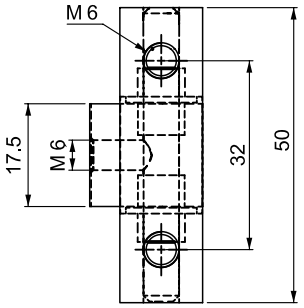
Item No.	Type
HISF010A	1
HISF020A	2
HISF030A	3
HISF040A	4

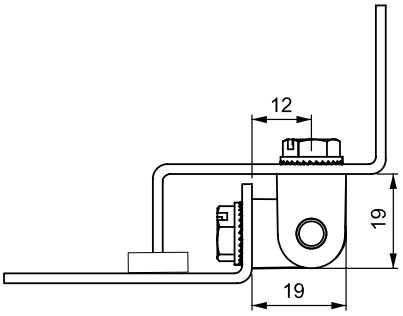
Item No.	Type
HISF210A	5
HISF220A	6
HISF230A	7
HISF240A	8

SURFACE MOUNT HINGES

693 Series
Side Mount Hinge





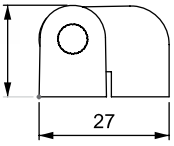


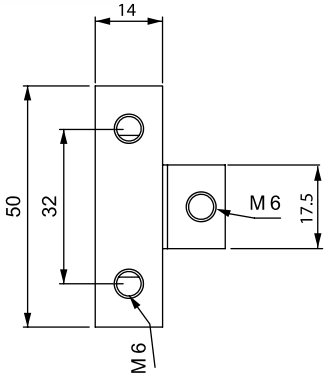
Specifications:
- Material: Zinc Alloy
  Finish: See Table
  Pin: Stainless Steel
- Zinc Alloy is DIN-EN 1774 rated

Features:
- Comes fully assembled
- Maximum hinge rotation 180°
- Ideal for electric panels and machinery cover applications

Item No.	Finish
69311	Chrome Plated
69312	Black Powder Coated

693 Series
Bearing Hinge





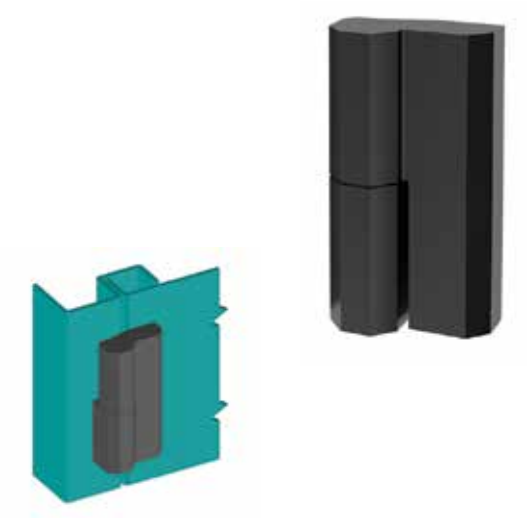
Specifications:
- Material: Zinc Alloy
  Pin: Stainless Steel
  Bearing: Delrin
- Finish: See Table
- DIN-EN 1774 rated

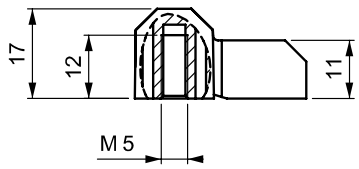
Features:
- Ideal for electric panels and machinery cover applications
- Maximum hinge rotation 180°

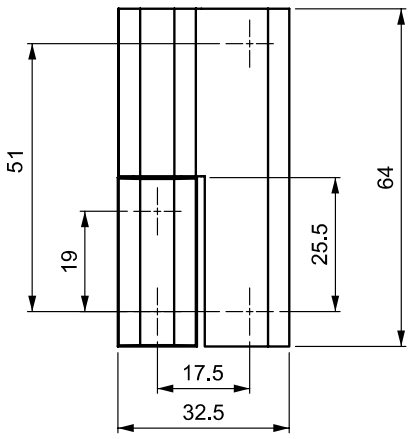
Item No.	Finish
693112	Chrome Plated
693122	Black Powder Coated

699 Series
Surface Mount Hinge - Lift-Off

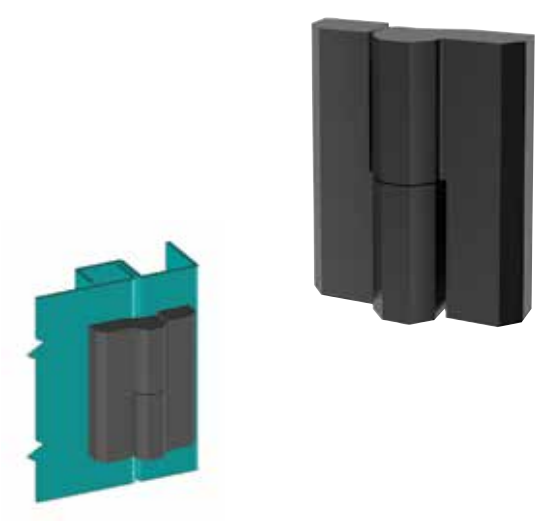
Version 1

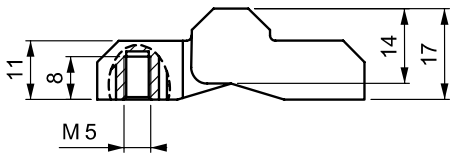


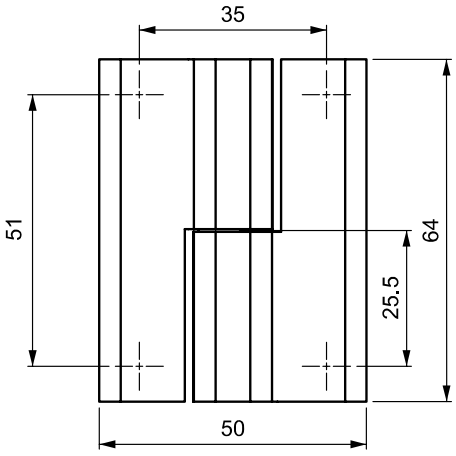




Version 2







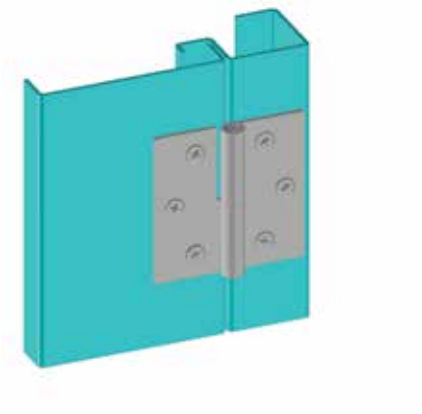
Specifications:
• Material: Zinc Alloy
Pin Material: Stainless Steel
• Finish: See Table

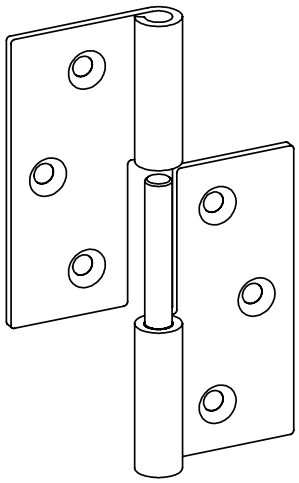
Features:
• Concealed mounting screws prevent external access to hinge
• Hinge rotation 180°
• Ideal for electric panels and machinery cover applications

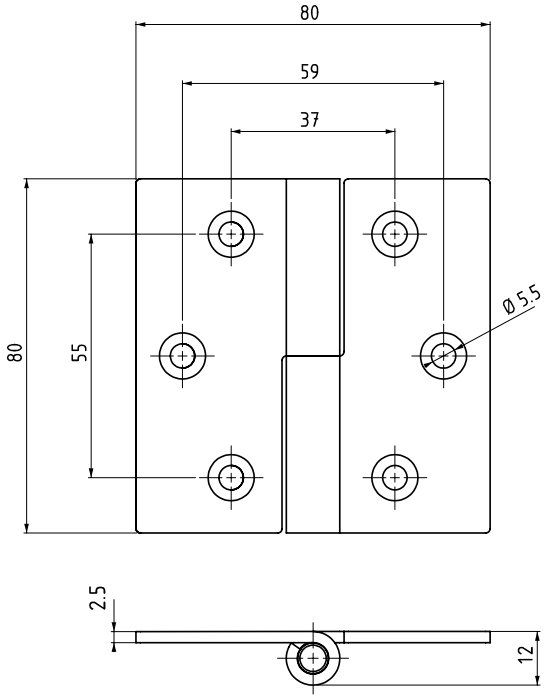
Item No.	Finish	Version	Hand Operation
699111001	Chrome Plated	1	Right
699111002	Chrome Plated	1	Left
699112001	Chrome Plated	2	Right
699112002	Chrome Plated	2	Left
699121001	Black Powder Coated	1	Right
699121002	Black Powder Coated	1	Left
699122001	Black Powder Coated	2	Right
699122002	Black Powder Coated	2	Left

SURFACE MOUNT HINGES

4299 Series
Surface Mount Hinge - Lift-Off





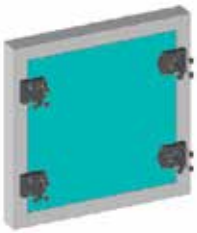


Specifications:
- Material: See Table
  Pin: Stainless Steel
- Finish: See Table

Features:
- Designed for plain flush-mounted doors
- Hinge rotation 270°

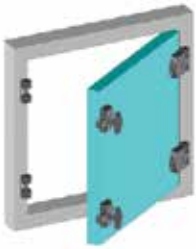
Item No.	Material	Finish	Hand Operation
429963001	Stainless Steel	Natural	Right
429963002	Stainless Steel	Natural	Left
429940001	Steel	Zinc Plated	Right
429940002	Steel	Zinc Plated	Left

712 Series
Surface Mount Hinge - Lift-Off Latch/Lock

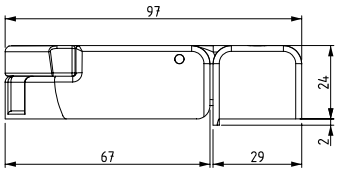


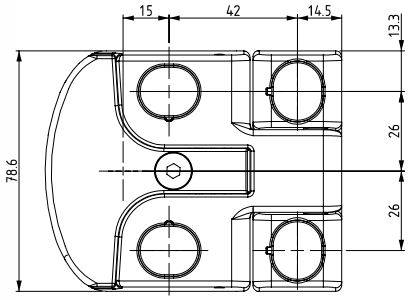
Assembly:
Functional locking hinge can be mounted left or right side of door.

Right Cover Application:
right hinge - left lock

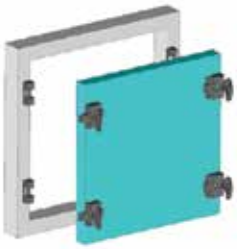


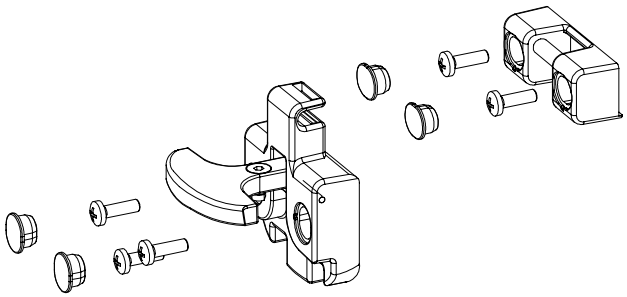
Left Cover Application:
left hinge - right lock





Removing the door:
• lift the handle
• remove the door





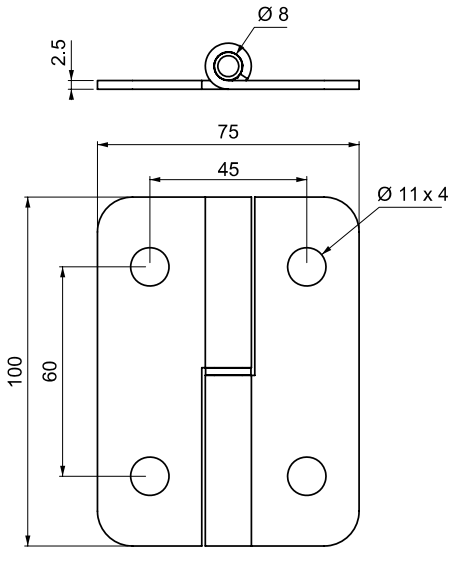
Specifications:
• Material: Nylon Black (PA6 30% GF)
• M8 Thread
• Fastening bolts are not included
• Plastic cover plugs are provided with purchase

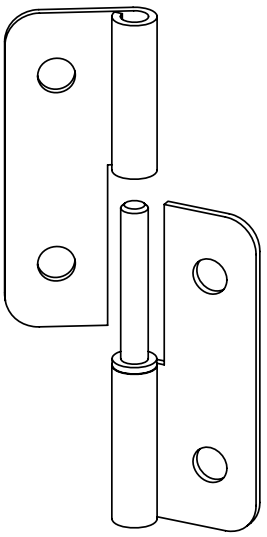
Features:
• Universal lock and hinge design
• Hex head driver insert used to secure hinges (4mm hex head)
• Hinge rotation 180°
• Door can be completely removed by unlocking the hinge

Item No.
71220M

SURFACE MOUNT HINGES

899 Series
Surface Mount Hinge - Heavy Duty Lift-Off



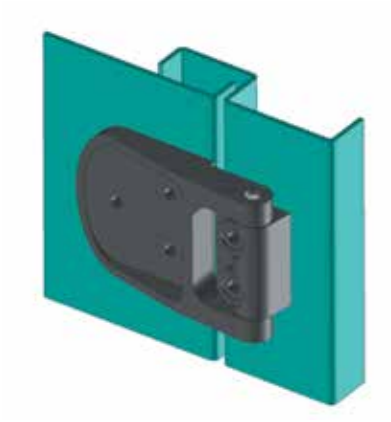


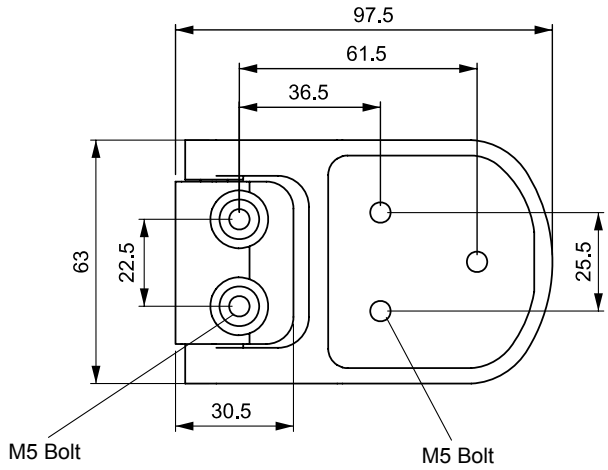
Specifications:
• Material: See Table
Pin Material: See Table
• Finish: See Table

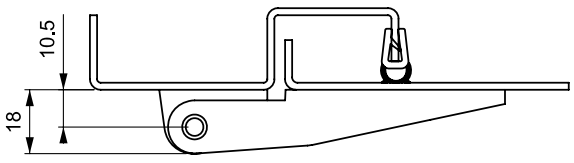
Features:
• Ideal for electric panels and machinery cover applications
• Hinge rotation 180°

Item No.	Material	Finish	Hand Operation
89940001	Stainless Steel	Natural	Right
89940002	Stainless Steel	Natural	Left
89962001	Steel	Black Powder Coated	Right
89962002	Steel	Black Powder Coated	Left
89963001	Steel	Zinc Plated	Right
89963002	Steel	Zinc Plated	Left

300 Series
Surface Mount Hinge - Heavy Duty







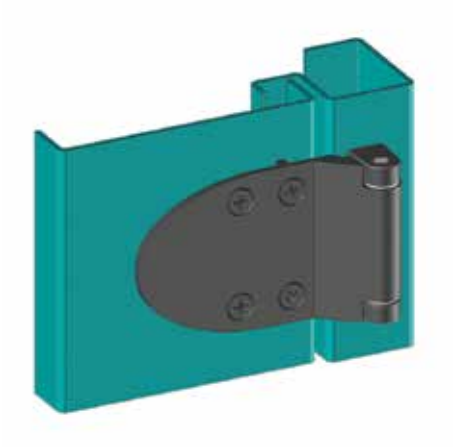
Specifications:
- Material:
  Body: Nylon (PA6 30% GF)
  Pin: Stainless Steel
- Finish: Zinc Plated
- Color: Black

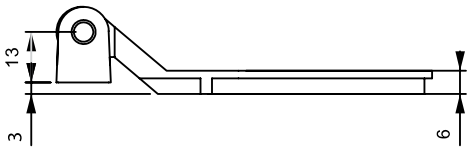
Features:
- Central air conditioning units, electrical panels and machinery covers
- Hinge rotation 180°

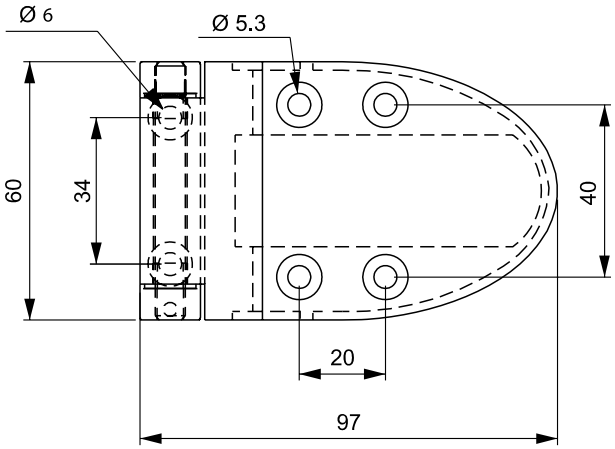
Item No.
300M

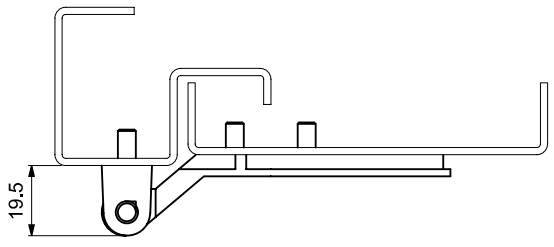
SURFACE MOUNT HINGES

500 Series
Surface Mount Hinge - Heavy Duty







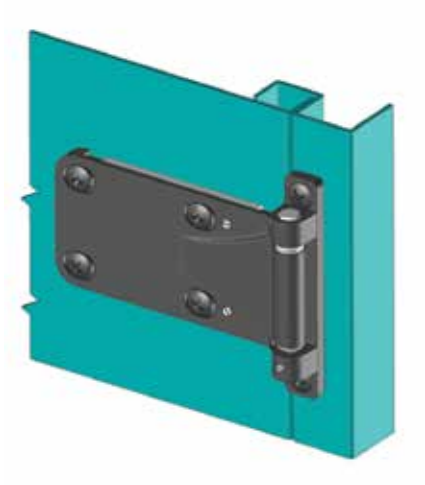


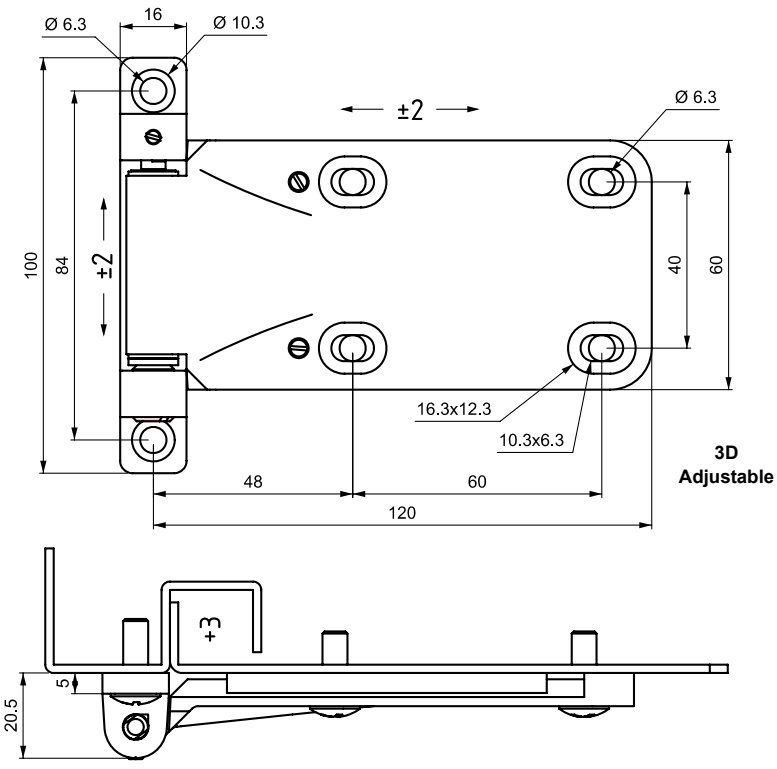
Specifications:
- Material:
  Body: Zinc Alloy
  Pin: Stainless Steel
  Bearing: Delrin
  Cover: Nylon (PA6 30% GF)
- Finish: Black Powder Coated

Features:
- Used on HVAC units, flush-mounted and heavy duty style doors
- Hinge rotation 180°
- Supplied with Nylon hinge cover and stainless steel pin

Item No.
50012

800 Series
Surface Mount Hinge - Heavy Duty Adjustable





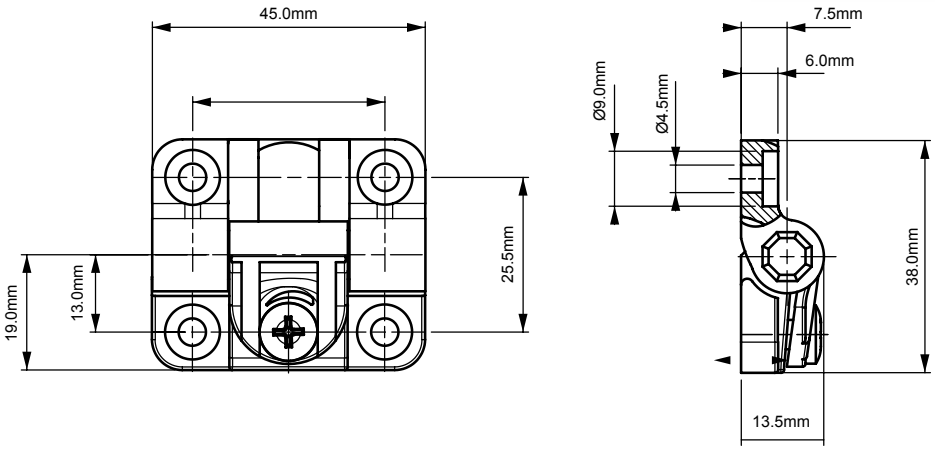
Specifications:
- Material:
  Body: Zinc Alloy
  Pin: Steel
  Bearing: Delrin
- Finish: Black Powder Coated
- Body is DIN-EN 1774 rated

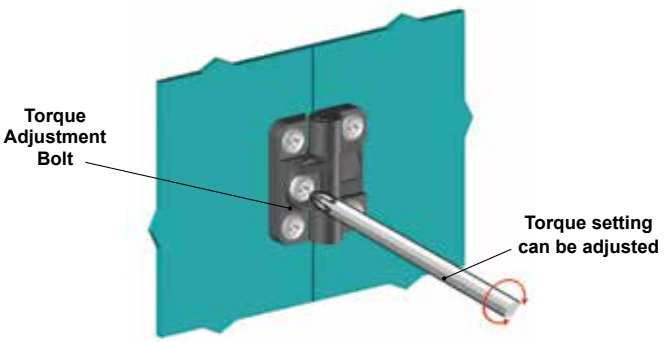
Features:
- Applications: HVAC, electrical panels, machinery covers
- Suitable for three-dimensional door adjustment
  Adjustments to height and width +/- 2mm and depth adjustment up to +/- 3mm
- Can be used for flush mount applications

Item No.	Hand Operation
80012001	Left
80012002	Right

SURFACE MOUNT HINGES

2399 Series
Surface Mount Hinge - Adjustable



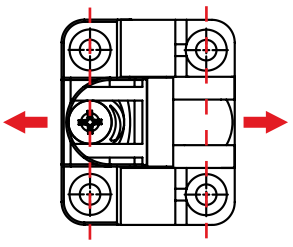


Specifications:
- Material:
  Body: Nylon (PA6 30% GF)
  Screw and Nuts: Stainless Steel
- Finish: Black Powder Coated
- Nylon is DIN-EN ISO 1043-1 rated

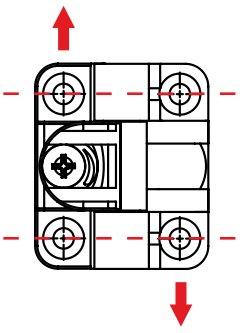
Features:
- Hinge torque can be adjusted with screw
- Hinge rotation 180°
- Provide position control
- Hinge can be secured by using M4 Nuts and Bolts
- Contact Essentra for alternate colors

Performance Details
- Axial Load: (N)
- Working Load: 700
- Breaking Load weight: 1100
- Radial Load: (N)
- Working Load: 1400
- Breaking Load weight: 1800
- Torque Value: 0.8 Nm
- Working Temperature: 23°F to 149°F (-5°C to 65°C)

Axial load (N)



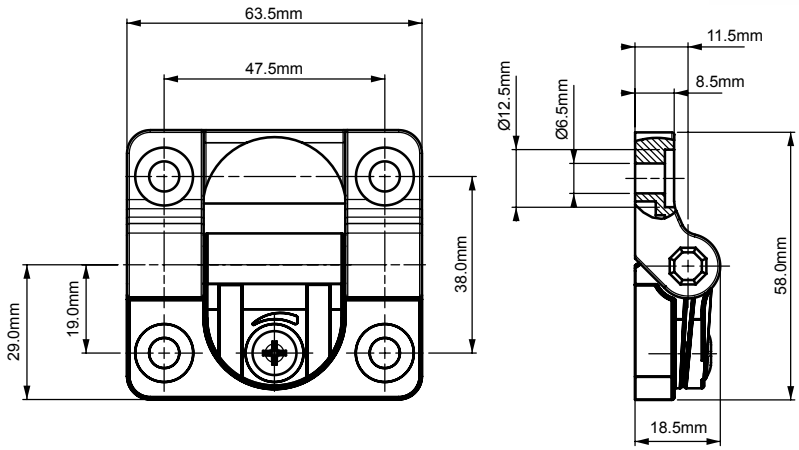
Radial load (N)

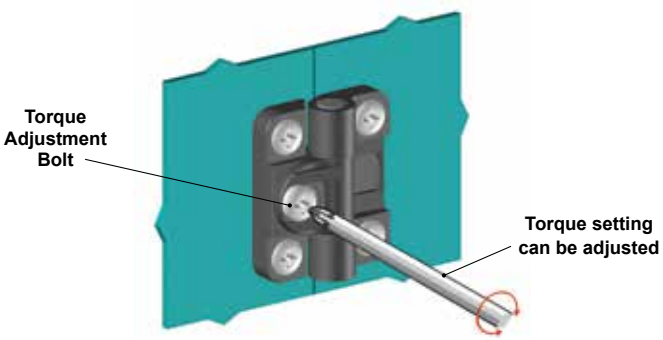


Item No.
239920

tel | 800 847 0486 fax | 866 561 6617

2499 Series
Surface Mount Hinge - Adjustable



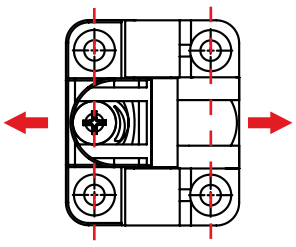


Specifications:
- Material:
  Body: Nylon (PA6 30% GF)
  Screw and Nuts: Stainless Steel (AISI 304)
- Finish: Black Powder Coated
- Nylon compliant to DIN-EN ISO 1043-1

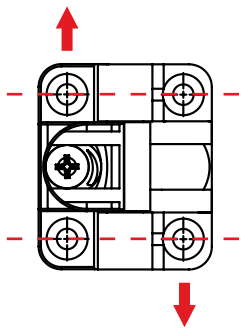
Features:
- Hinge torque can be adjusted with screw
- Hinge rotation 180°
- Provide position control
- Installed using M6 screws
- Hinge is secured by using M6 screws

Performance Details
- Axial Load: (N)
- Working Load: 1500
- Breaking Load weight: 2350
- Radial Load: (N)
- Working Load: 2250
- Breaking Load weight: 3200
- Torque Value: 4.0 Nm
- Working Temperature: 23°F to 149°F (-5°C to 65°C)

Axial load (N)



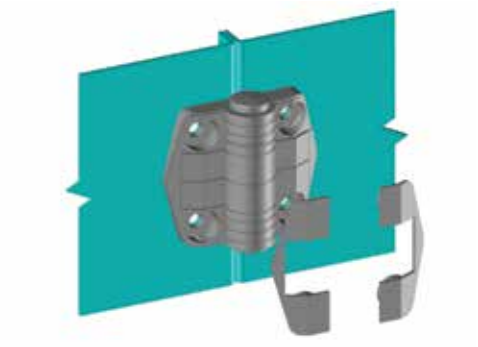
Radial load (N)

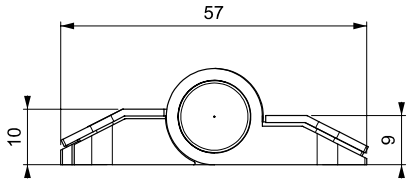


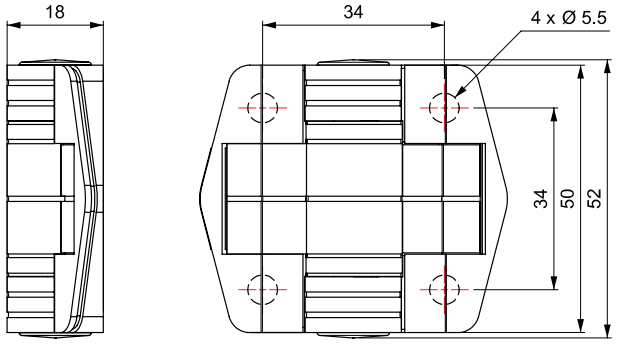
Item No.
249920

SURFACE MOUNT HINGES

2599 Series
Surface Mount Hinge - Indexing





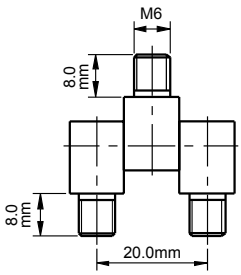


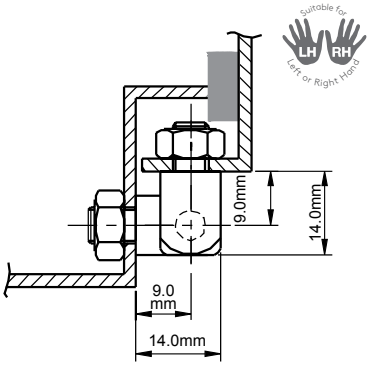
Specifications:
• Material: Nylon Black (PA6 30% GF)
Pin: Steel (EKN6222)

Features:
• Contact Essentra for different angle or torque
• Indexing feature allows the hinge to hold its position at the specified angle

Item No.	Force (N - m)	Position
25992010	Non-indexed	
25992021	0.7	80º
25992022	1.1	
25992023	1.7	
25992031	0.7	115º
25992032	1.1	
25992033	1.7	
25992041	0.7	150º
25992042	1.1	
25992043	1.7	

090 Series
Side Hinge (10mm) - Version 1





Specifications:
• Material: Brass
• Finish: See Table

Features:
• Brass 10mm parts supplied separated
• For different dimensions contact Essentra

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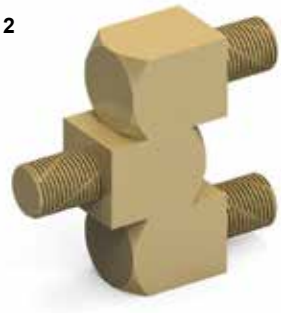
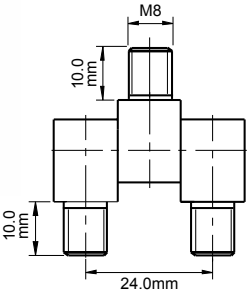
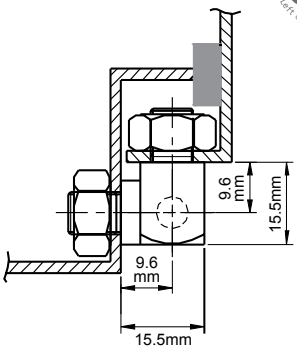
091 Series
Side Hinge (12mm) - Version 2







Specifications:
• Material: Brass
• Finish: See Table

Features:
• Three 12mm brass parts supplied separated
• For different dimensions contact Essentra

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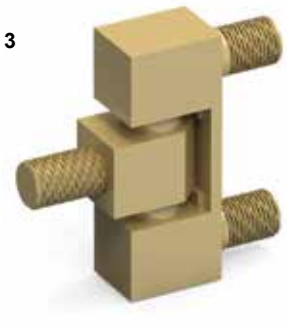
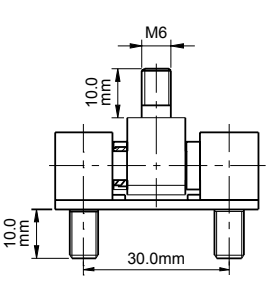
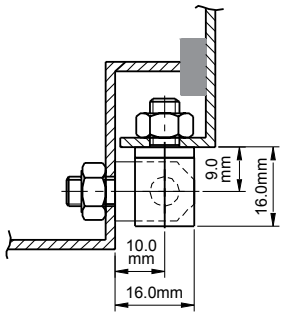
092 Series
Side Hinge (12mm) - Version 3







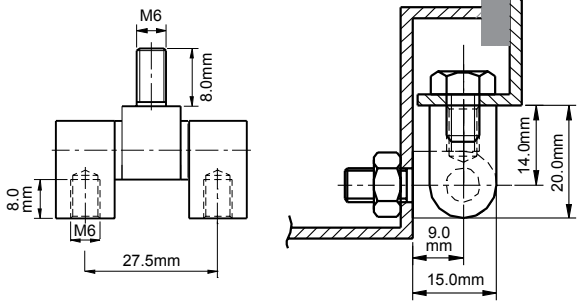
Specifications:
• Material: Brass
• Finish: See Table

Features:
• Three 12mm brass parts supplied separated
• For different dimensions contact Essentra

Item Number	Hinge Rotation	Finish	Thread (A)	Version
09030	180°	No Finish	M6	1
09034	180°	Nickel	M6	1
09130	180°	No Finish	M8	2
09131	180°	Nickel	M8	2
092306180	180°	No Finish	M6	3
09230690	90°	No Finish	M6	3
092308180	180°	No Finish	M8	3
09230890	90°	No Finish	M8	3
092316180	180°	Chrome	M6	3
09231690	90°	Chrome	M6	3
092318180	180°	Chrome	M8	3
09231890	90°	Chrome	M8	3

SIDE MOUNT HINGES

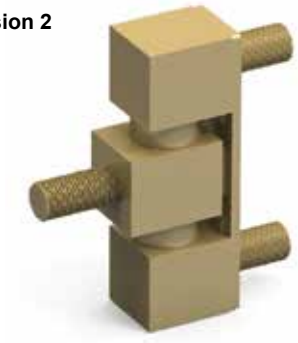
192 Series
Side Hinge (12mm) - Version 1

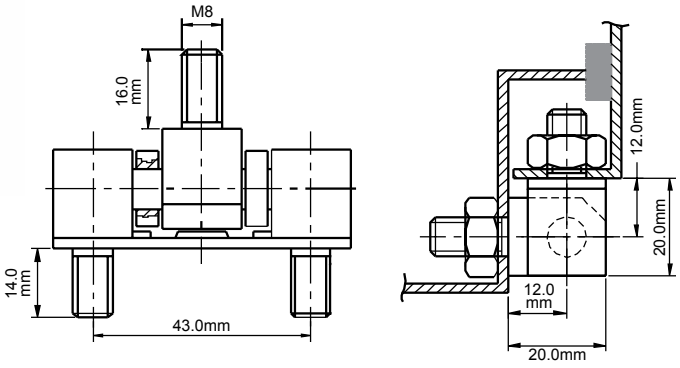


Specifications:
- Material: Brass
- Finish: See Table

Features:
- Side-mounted hinge
- 12mm brass parts supplied separated
- Parts tightly fitted

093 Series
Side Hinge (16mm) - Version 2

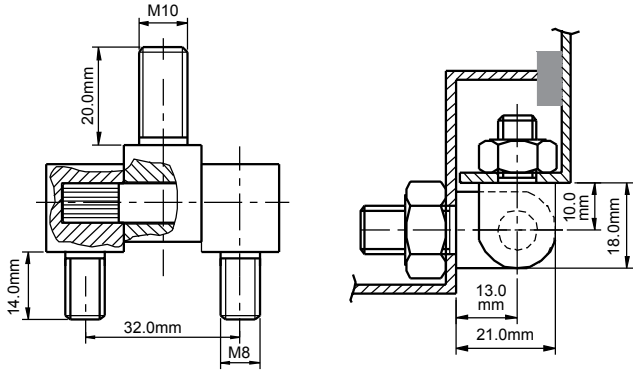




Specifications:
- Material: Brass
- Finish: See Table

Features:
- Side-mounted hinge
- 16mm brass parts supplied separated
- Parts assembled by installation plate

193 Series
Side Hinge (16mm) Version 3

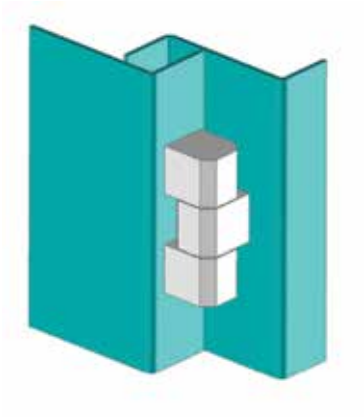


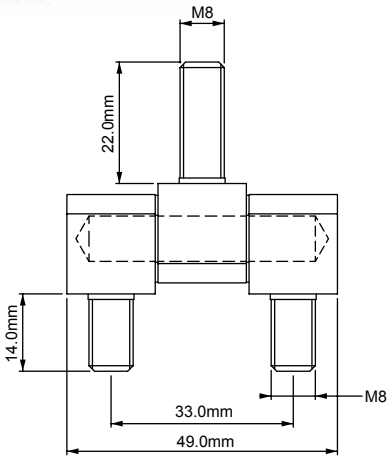
Specifications:
- Material: Brass
- Finish: See Table

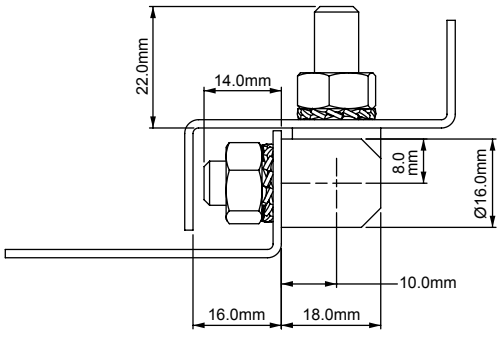
Features:
- Side-mounted hinge
- 16mm brass parts supplied separated
- Parts tightly fitted

Item No.	Hinge Rotation	Finish	Thread	Version
19231	180°	Chrome	M6	1
09330	100°	No Finish	M8	2
09331	100°	Chrome	M8	2
19331	180°	Chrome	M8 / M10	3

793 Series
Side Hinge







Specifications:
- Material: Steel
  Finish: Zinc Plated
  Nuts and washers are not supplied

Features:
- For medium voltage and heavy door panels
- Maximum hinge rotation 180°
- Ideal for electric panels and machinery cover applications

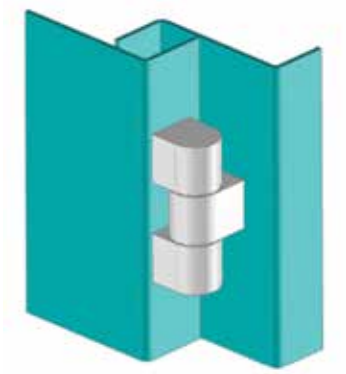
Item No.
79363

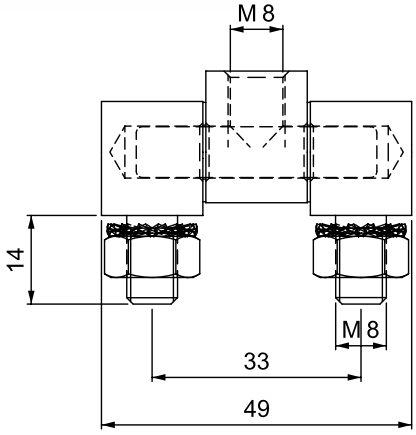
CUSTOM SOLUTIONS AVAILABLE

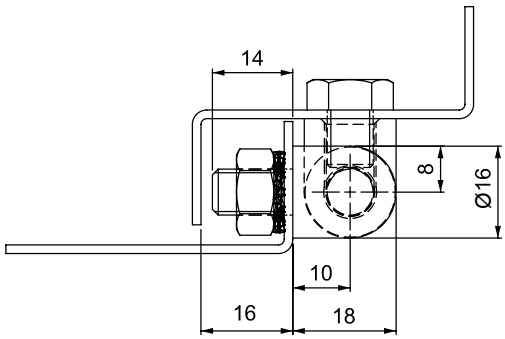
Our expertise ranges across multiple industries, supported by outstanding customer service. We can reduce your lead times and provide custom solutions and advice to help you achieve your business goals.

SIDE MOUNT HINGES

893 Series
Side Hinge





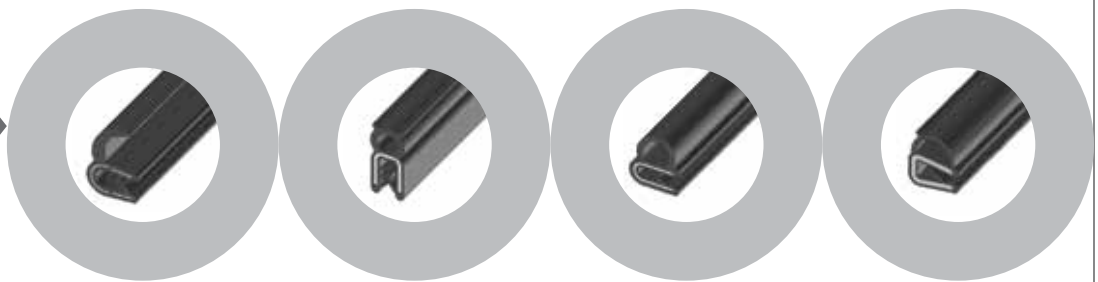


Specifications:
- Material: C45 Steel
- Finish: Zinc Plated
- Nuts and washers are not supplied

Features:
- For medium voltage and heavy door panels
- Maximum hinge rotation 180°
- Assembly screws supplied
- Ideal for electric panels and machinery cover applications

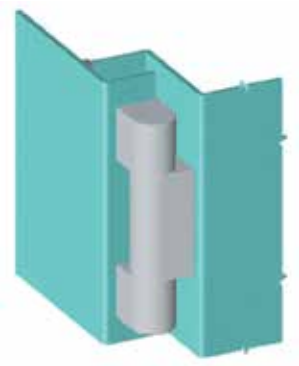
Item No.
89363M

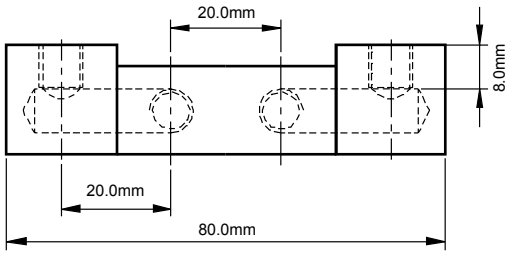
GASKETING & SEALS

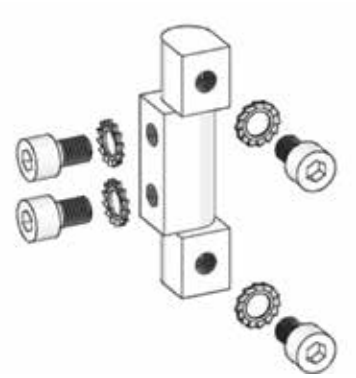


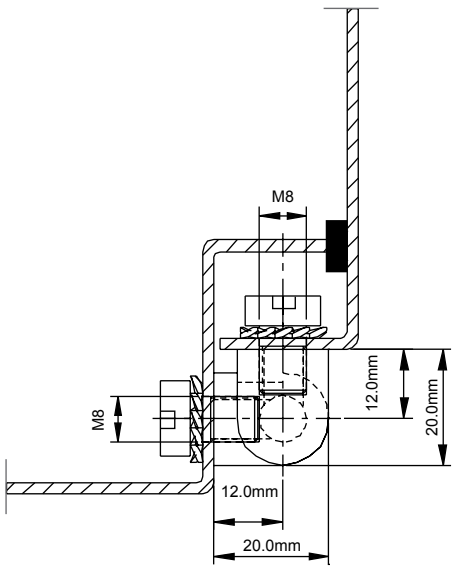
See pages 445 - 446 or visit www.essentracomponents.com

393 Series
Side Hinge - Lift Off









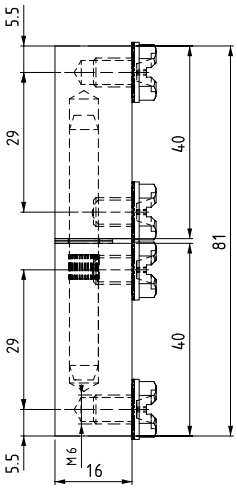
Specifications:
• Material: Brass
Finish: Chrome
• Brass is DIN 17672 rated

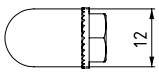
Features:
• For medium voltage and heavy door panels
• Maximum hinge rotation 180°
• Assembled using special screws (supplied)
• Ideal for electric panels and machinery cover applications

Item No.	Thread
39331	M8

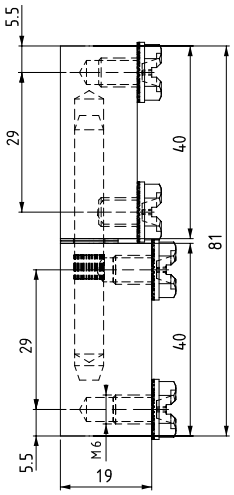
SIDE MOUNT HINGES

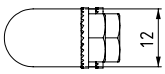
993 Series
Side Hinge



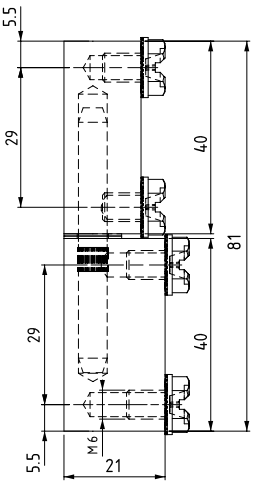


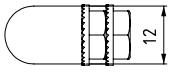
Version 1



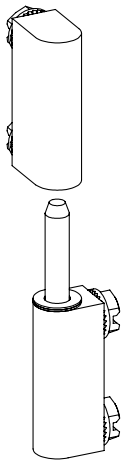


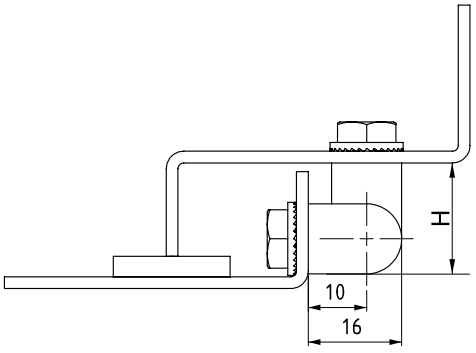
Version 2





Version 3



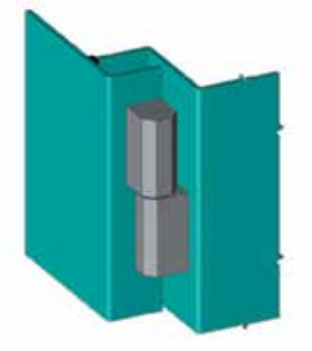


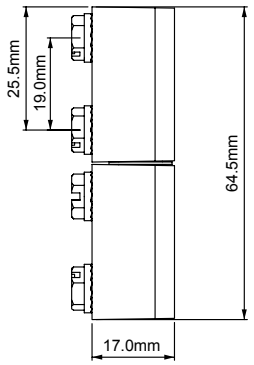
Specifications:
- Material:
  Body: Brass
- Finish: Chrome

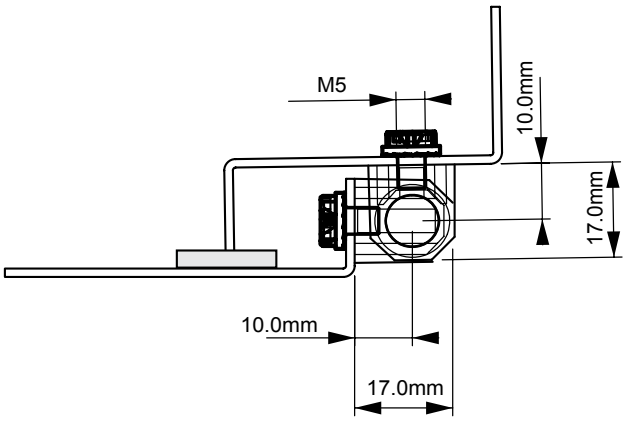
Features:
- Fastening bolts are supplied
- Maximum hinge rotation 180°

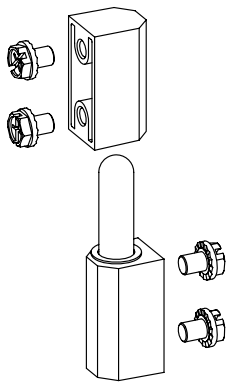
Item No.	Height (H)	Version
9933116	16	1
9933119	19	2
9933121	21	3

493 Series
Side Hinge - Lift Off









Installed Zinc Alloy pin

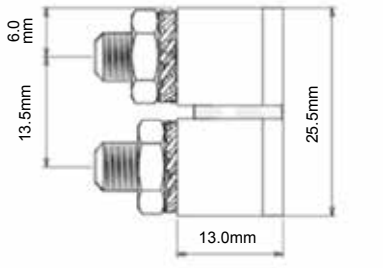
Specifications:
• Material:
Body: Zinc Alloy
Pin: Zinc Alloy
Finish: See Table

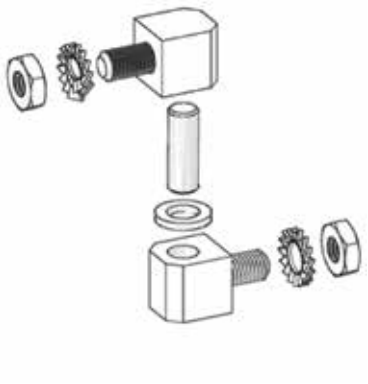
Features:
• Ideal for electric panels and machinery cover applications
• Maximum hinge rotation 180°
• Bolts are included with hinge

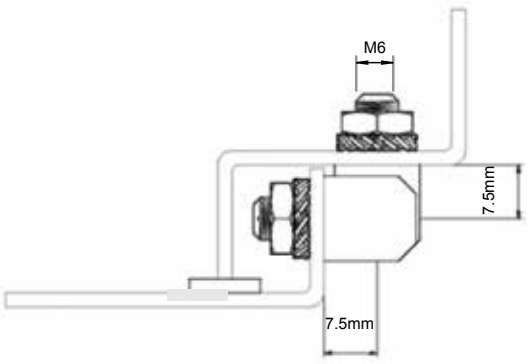
Item No.	Material / Finish
493111M	Chrome Plated
493121M	Black Powder Coated

SIDE MOUNT HINGES

191 Series
Side Hinge - Lift Off







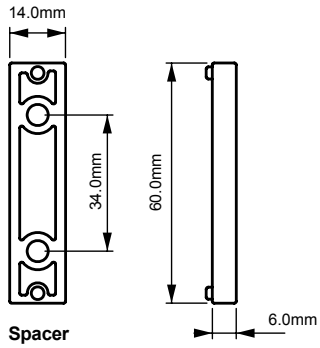
Specifications:
- Material: Steel
- Finish: Zinc Plated

Features:
- 12mm blocks
- Ideal for electric panels and machinery cover applications
- Maximum hinge rotation 180°
- Nuts and washers are included

Item No.
19163

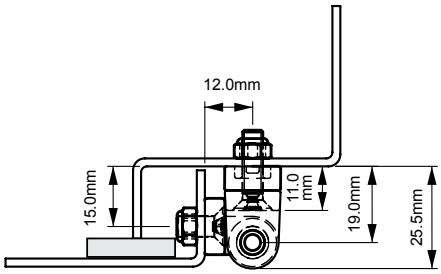
593 Series
Side Hinge

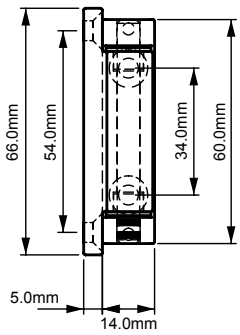
Version 1 - with Spacer



Spacer

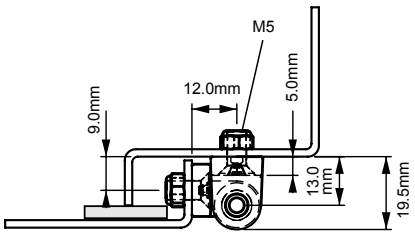
Version 2 - without Spacer





Specifications:
Material: Zinc Alloy
Pin: Stainless Steel
Finish: See Table
• DIN-EN 1774 rated
• Bolts are not supplied

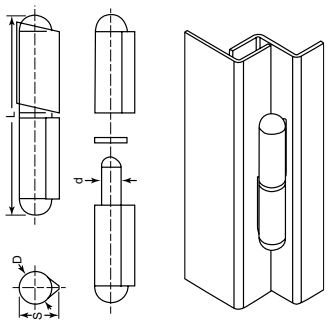
Features:
• Ideal for electric panels and machinery cover applications
• Maximum hinge rotation 180°
• Spacer bar available for different dimensions



Item No.	Finish	Version
5931125	Chrome Plated	1
5931225	Black Powder Coated	1
5931119	Chrome Plated	2
5931219	Black Powder Coated	2

CORNER MOUNT HINGES

HIW Series
Weld-On Bullet Hinges

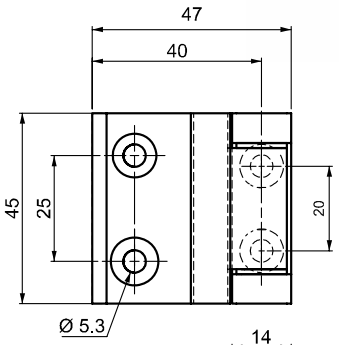


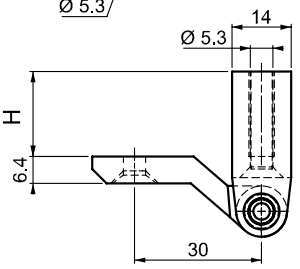
Specifications:
- Material: See Table

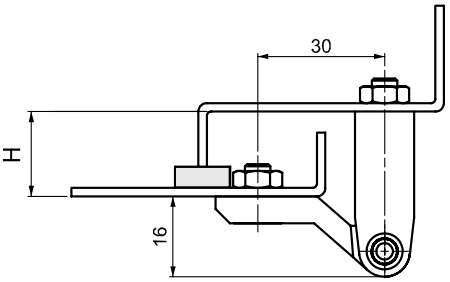
Features:
- Flat surfaces for easy welding
- Can be mounted in several configurations

Item No.				L		D		d		S	
Steel	Steel with Brass Pin	Aluminum	Stainless Steel	in	mm	in	mm	in	mm	in	mm
HIW488A	HIW497A	—	—	1.575	40.0	0.315	8.0	0.197	5.0	0.394	10.0
HIW489A	HIW498A	—	—	1.969	50.0	0.315	8.0	0.197	5.0	0.394	10.0
HIW490A	HIW499A	HIWAL506A	HIWSS510A	2.362	60.0	0.394	10.0	0.236	6.0	0.492	12.5
HIW491A	HIW500A	—	—	2.756	70.0	0.453	11.5	0.236	6.0	0.520	13.2
HIW492A	HIW501A	HIWAL507A	HIWSS511A	3.150	80.0	0.512	13.0	0.315	8.0	0.630	16.0
HIW493A	HIW502A	HIWAL508A	HIWSS512A	3.937	100.0	0.630	16.0	0.394	10.0	0.787	20.0
HIW494A	HIW503A	HIWAL509A	HIWSS513A	4.724	120.0	0.630	16.0	0.394	10.0	0.787	20.0
HIW495A	HIW504A	—	—	5.906	150.0	0.787	20.0	0.512	13.0	0.984	25.0
HIW496A	HIW505A	—	—	7.087	180.0	0.787	20.0	0.512	13.0	0.984	25.0

100 Series
Corner Hinge







Specifications:
- Material: Zinc Alloy
- Pin Material: Stainless Steel
- Bearing: Delrin
- Finish: Black Powder Coated
- Hinge Pin: Stainless Steel
- Bolts are not provided

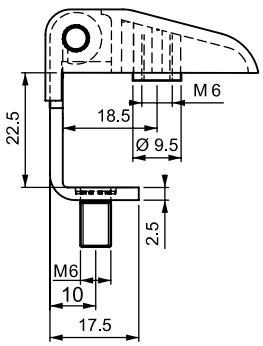
Features:
- Generally used for plain/flush-mounted doors
- Stud versions fitted with M6x12mm threaded stud
- Maximum hinge rotation 180°
- Please contact Essentra for alternate heights

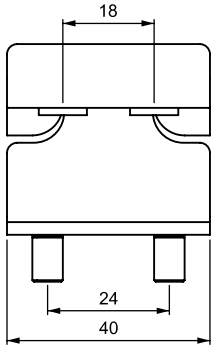
Item No.	H Height (mm)
1001200	0
100125	5
100127	7
1001210	10
1001225	25

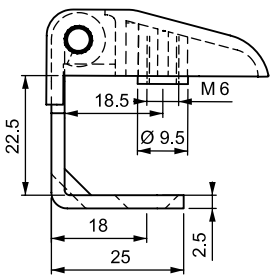
200 Series
Corner Hinge

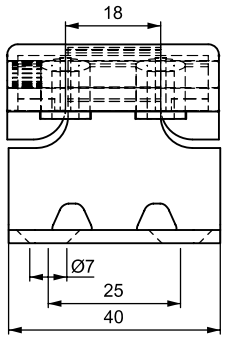
Version 1 - Stud and Through Hole

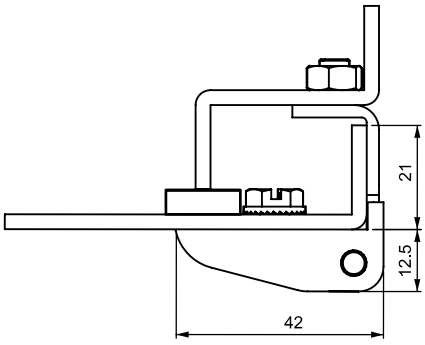
Version 2 - Through Hole

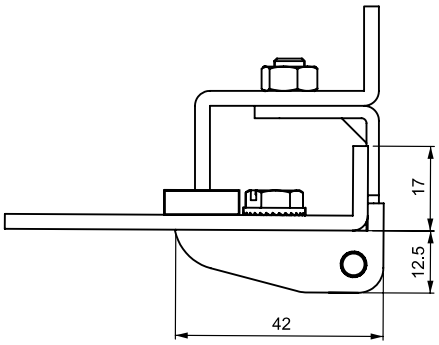






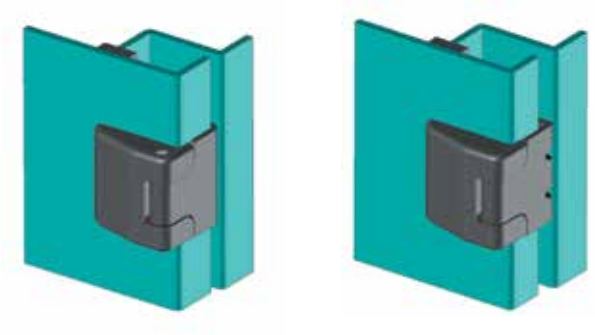






Specifications:
- Material:
  Frame Part: Zinc Alloy
  Frame Part: Steel
  Pin: Steel
- Finish: Black Powder Coated

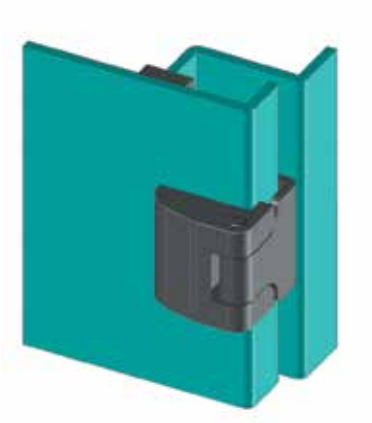
Features:
- For door corners with 21mm bend
- M6 bolt supplied with stud version
- Fastened with M6 screws
- Hinge rotation 180°

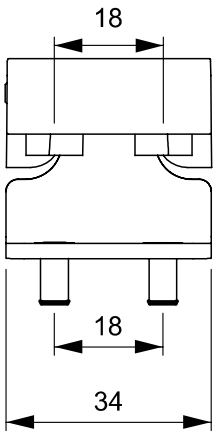


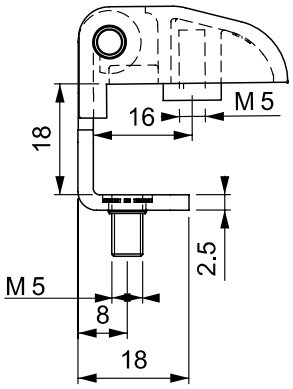
Item No.	Version	Through Hole / Stud
20012171	1	Stud
20012170	1	Through Hole
20012250	2	Through Hole

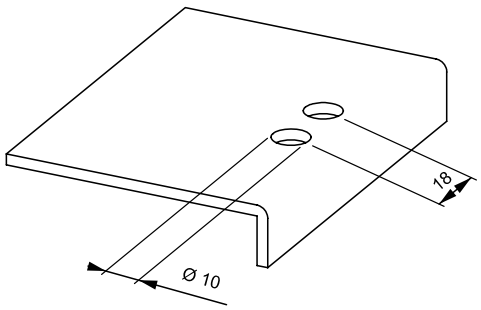
CORNER MOUNT HINGES

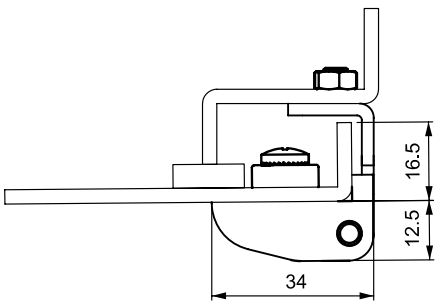
400 Series
Corner Hinge











Specifications:
- Material:
  Body: See Table
  Installation Bracket: Steel Pin: Steel
- Finish: See Table

Features:
- For door corners with 16.5mm bend
- M5 bolts supplied for stud version
- Nylon mounting bracket supplied for installation
- Hinge rotation 180°

Item No.	Through Hole / Stud	Body Material	Finish / Color
40012181	Stud	Zinc Alloy	Black Powder Coated
40020181	Through Hole	Nylon	Black

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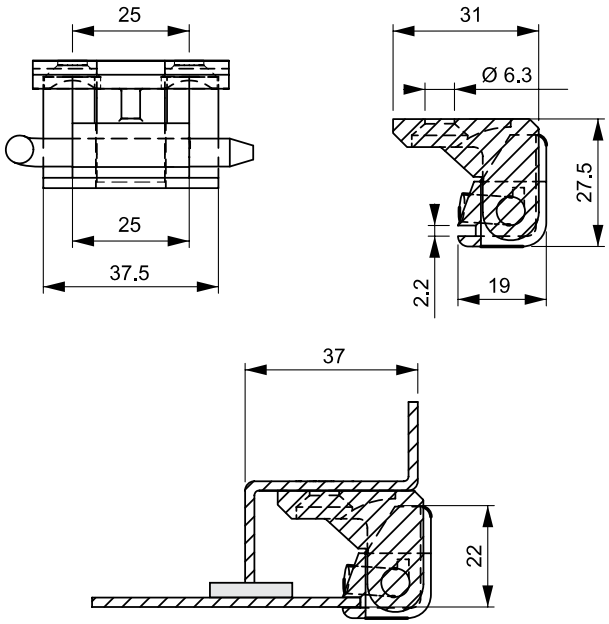
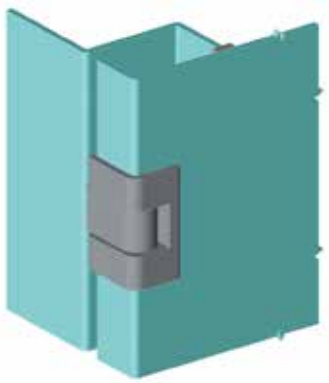
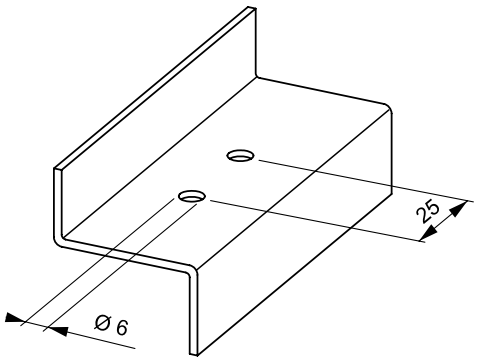
CORNER MOUNT HINGES

098 Series
Corner Hinge







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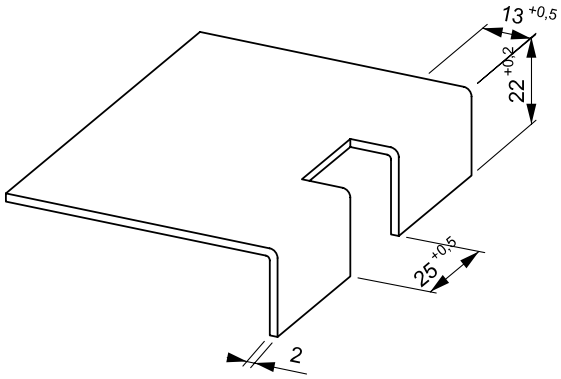

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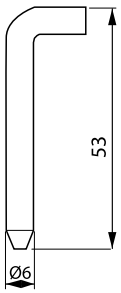
Pin



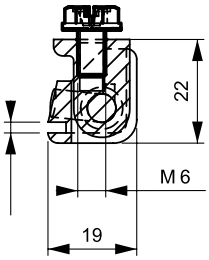
Specifications:
- Material:
  Body: Zinc Alloy
  Pin: Steel
- Finish: See Table
- Bolts are not supplied with hinge

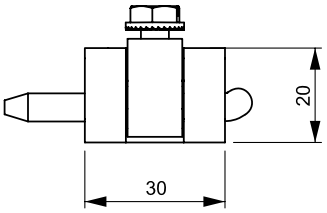
Features:
- Suitable for steel panels with a thickness between 1.5 - 2.0mm
- Hinge rotation 180°

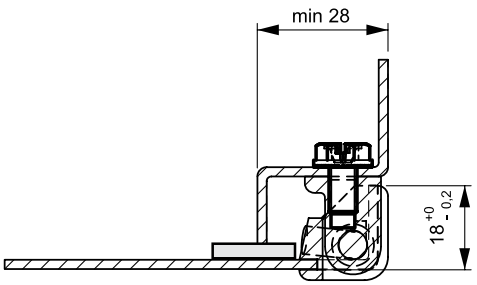
Item No.	Finish
098112	Chrome Plated
098122	Black Powder Coated

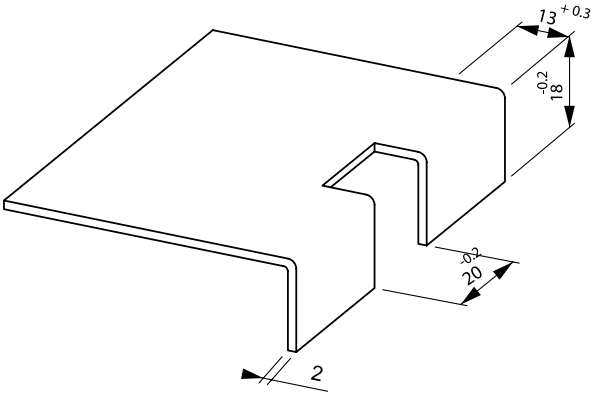
CORNER MOUNT HINGES

097 Series
Corner Hinge









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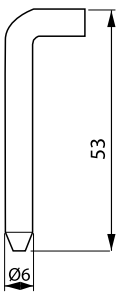
Pin

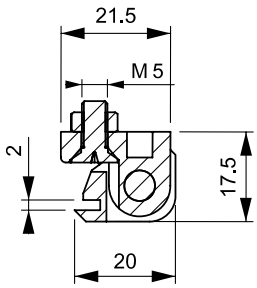


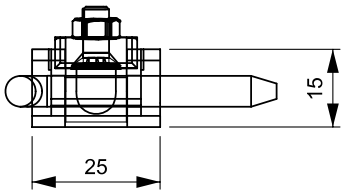
Specifications:
- Material:
  Base: See Table
  Pin: Same as Base
  Finish: See Table

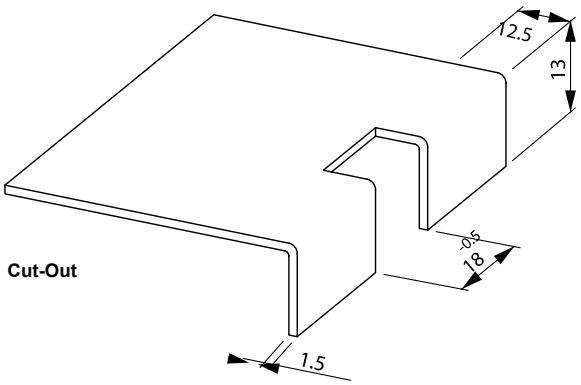
Features:
- Hinge rotation 180°
- Please contact Essentra for alternate pin styles or thicker panel options

Item No.	Base Material	Base Finish	Panel Thickness mm
09711215	Zinc Alloy	Chrome Plated	1.0 - 1.2
09711222	Zinc Alloy	Chrome Plated	1.5 - 2.0
09712215	Zinc Alloy	Black Powder Coated	1.0 - 1.2
09712222	Zinc Alloy	Black Powder Coated	1.5 - 2.0
09740215	Stainless Steel	Electropolished	1.0 - 1.2
09740222	Stainless Steel	Electropolished	1.5 - 2.0

197 Series
Corner Hinge







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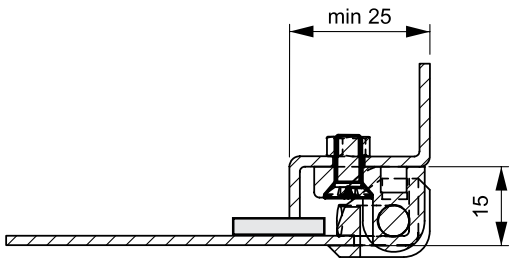
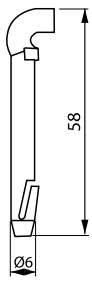




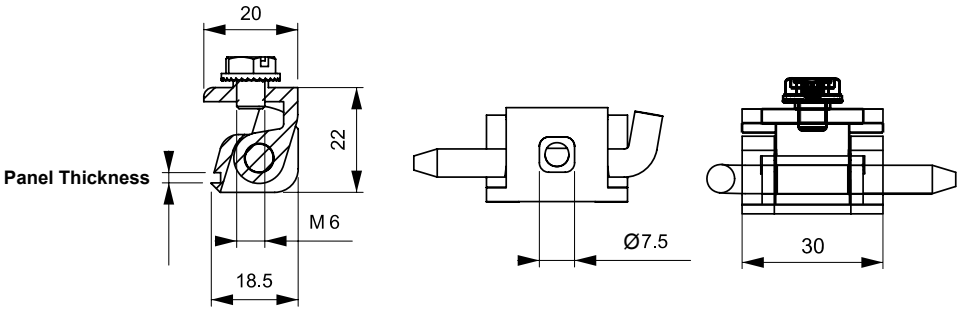
Specifications:
• Material:
Body: Nylon, Black (PA6 30% GF)
Pin: Delrin Steel

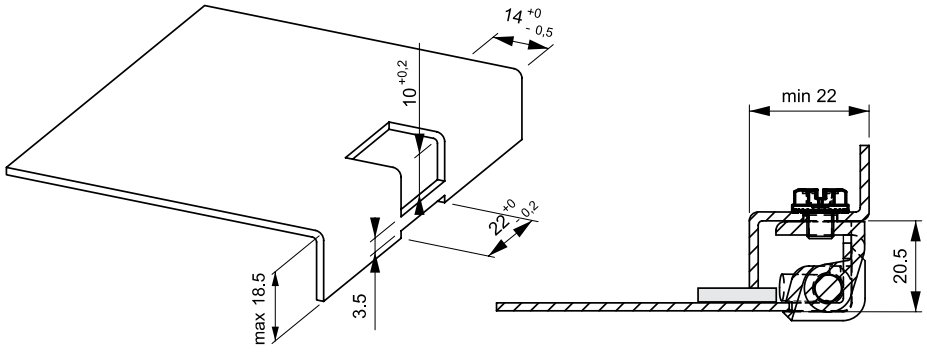
Features:
• Suitable for steel panels with a max thickness of 1.5mm
• Hinge rotation 180°
• For alternate pin options contact Essentra

Item No.
197201

CORNER MOUNT HINGES

297 Series
Corner Hinge





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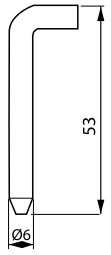
1.0 - 1.2mm Panel Thickness
Version 1

1.5 - 2.2mm Panel Thickness
Version 2

Pin



Specifications:
- Material:
  Base: Zinc Alloy
  Pin: Steel
- Finish: See Table

Features:
- Hinge rotation 180°
- Please contact Essentra for alternate pin styles

Item No.	Base Finish	Version	Panel Thickness (mm)
29711215	Chrome Plated	1	1.0 - 1.2
29711222	Chrome Plated	2	1.5 - 2.2
29712215	Black Powder Coated	1	1.0 - 1.2
29712222	Black Powder Coated	2	1.5 - 2.2

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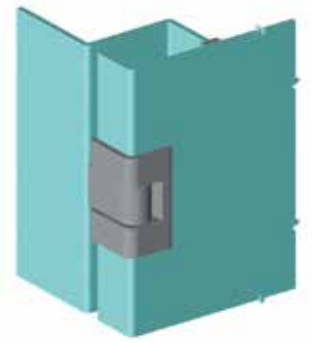
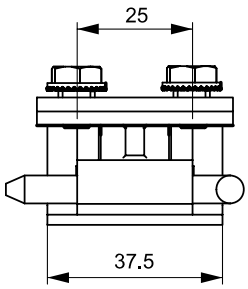
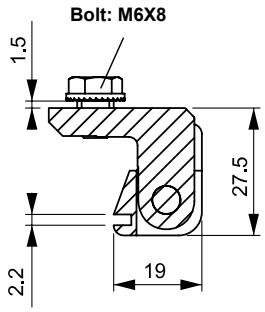
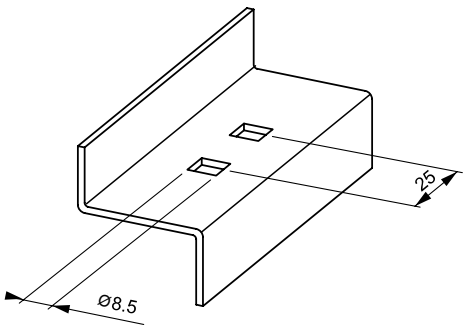
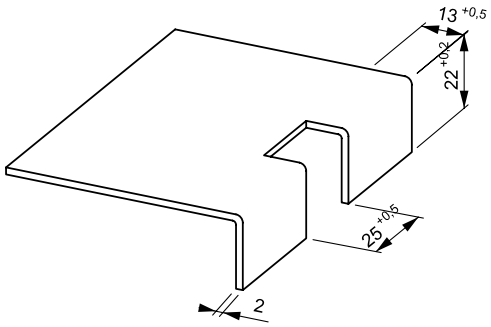
298 Series
Corner Hinge











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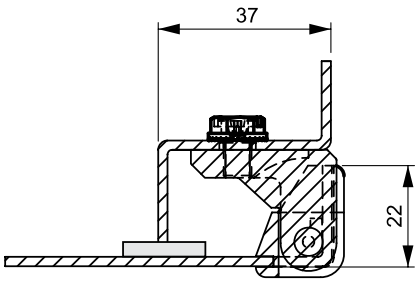
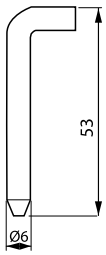


Specifications:
- Material:
  Body: Zinc Alloy
  Pin: Steel
- Finish: Black Powder Coated

Features:
- Ideal application for large electrical panels
- Hinge rotation 180°
- Corner Hinge, suitable for steel panels with a thickness between 1.5 - 2.0mm
- Includes M6 threaded studs for fastening

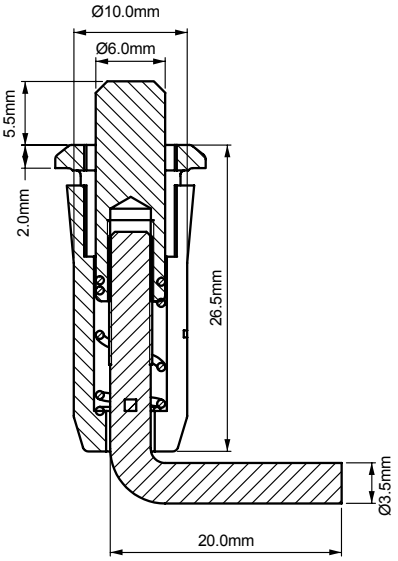
Pin



Item No.
298122

CONCEALED & SPRING LOADED HINGES

389 Series
Concealed Hinge - Spring Loaded

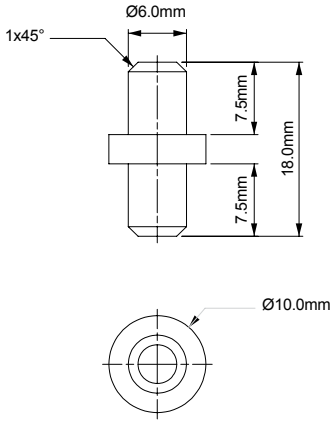


Specifications:
- Material: Nylon (PA6 30% GF)
  Pin Material: Steel
- Color: Black
- Compliant to DIN-EN ISO 1043-1 (Nylon)

Features:
- For internally mounted doors
- Hinge rotation 110°
- Spring-loaded hinge for easy door removal
- Clip installation for easy assembly

Item No.
389

Bottom Pivot Pin



Item No.	Description	Used With
32003192	Bottom Pivot Pin	089, 189 & 389 Series

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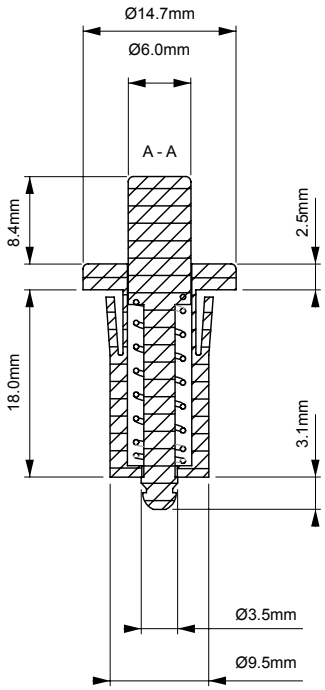
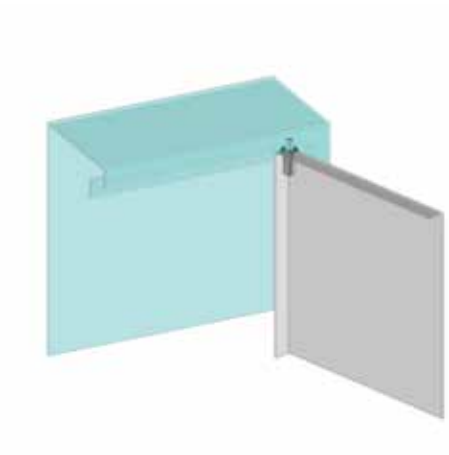
089 Series
Concealed Hinge



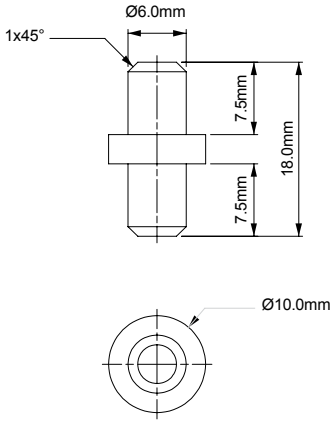


Specifications:
• Material:
Body: Nylon (PA6 30% GF)
Pin: Steel

Features:
• For internally mounted doors
• Hinge rotation 110°
• Spring loaded hinge for easy door removal
• Clip installation for easy assembly
• See Bottom Pivot Pin below for matting hinge pin - 320 Series

Item No.
089

320 Series
Bottom Pivot Pin



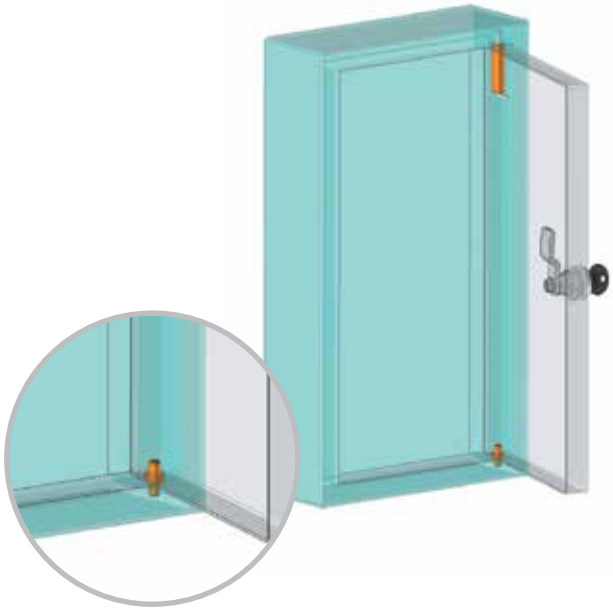
Specifications:
• Material: Steel
• Finish: Zinc Plated

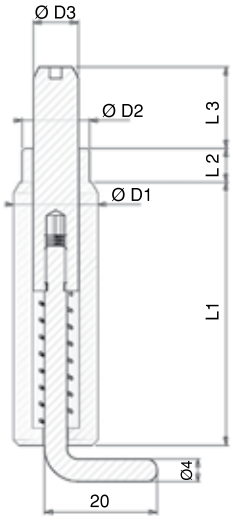
Features:
• Used with 089, 189, and 389 Series

Item No.
32003192

CONCEALED & SPRING LOADED HINGES

189 Series
Spring Loaded Hinge





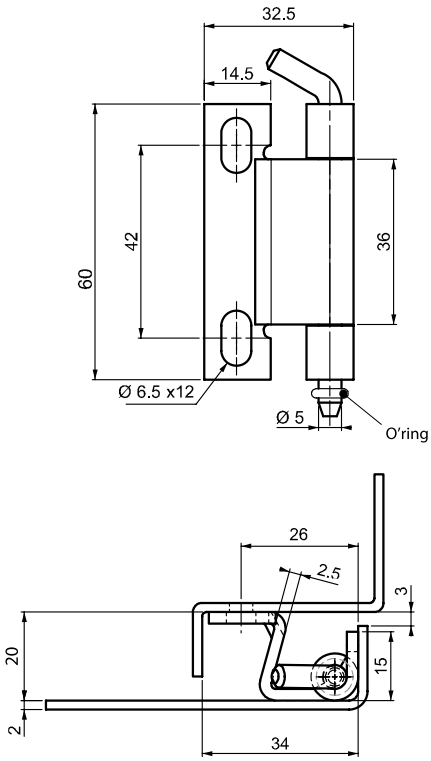
Specifications:
- Material: Steel
- Body Finish: Copper Plated
- Other Materials: Zinc Plated

Features:
- For internally mounted doors
- Hinge rotation 110°
- Spring loaded hinge for easy door removal
- Body is copper plated for easy welding

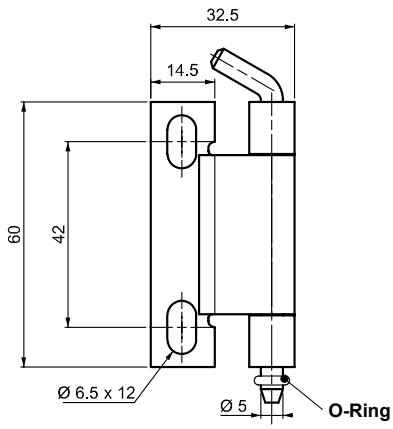
Item No.	D1	D2	D3	L1	L2	L3
18910	10	8.5	6	38	3.5	10
18912	12	9	6	38	3.5	10
18915	15	12	9	47	6	14.5

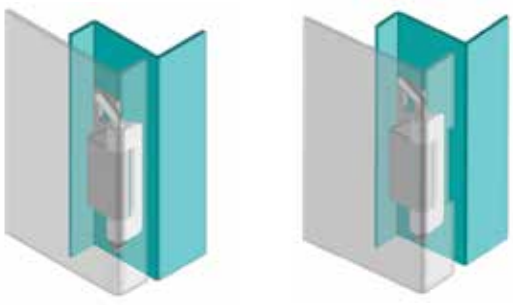
295 Series
Spring Loaded Hinge

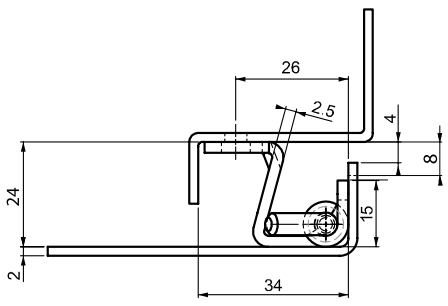
Version 1

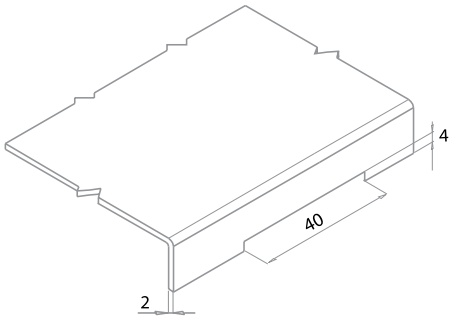


Version 2









Specifications:
• Material: See Table

Features:
• For doors with a bend between 20 - 24mm
• Hinge rotation 120°
• Frame part is screwed on, door part is welded on
• O-Ring acts as retainer ring for pin: remove O-Ring to pull pin from hinge for door or panel removal

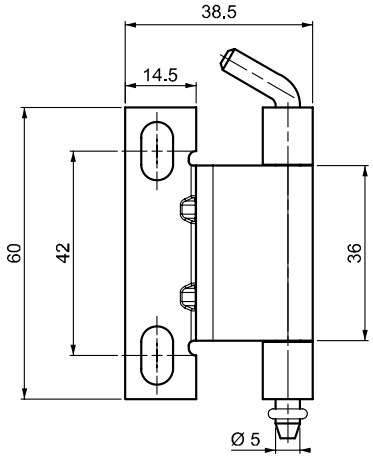
Item No.	Hinge Rotation	Material	Finish	Version
295401	120°	Stainless Steel	Stainless Steel	1
295402	120°	Stainless Steel	Stainless Steel	2
295631	120°	Steel	Zinc Plated	1
295632	120°	Steel	Zinc Plated	2

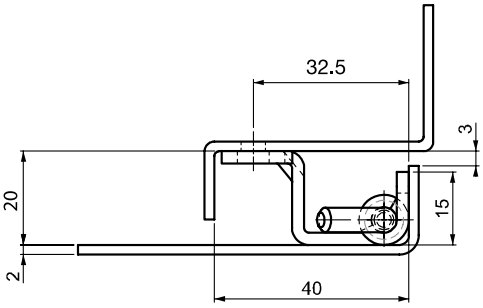
(Continued on next page)

CONCEALED & SPRING LOADED HINGES

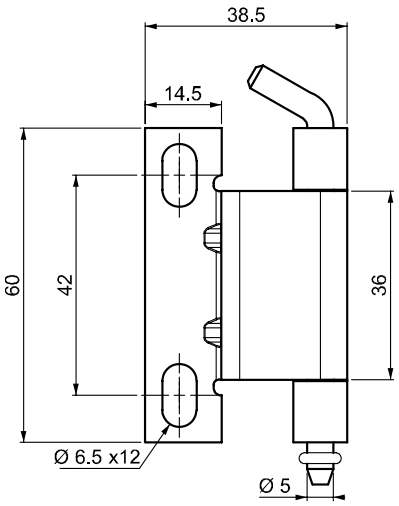
295 Series (Continued)
Spring Loaded Hinge

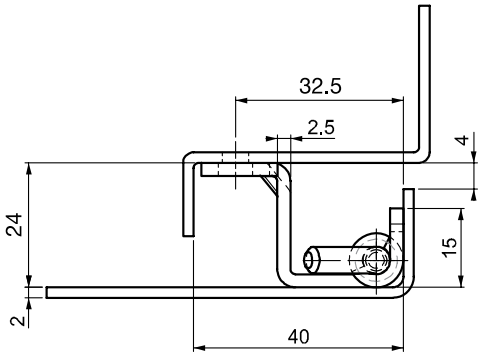
Version 3





Version 4





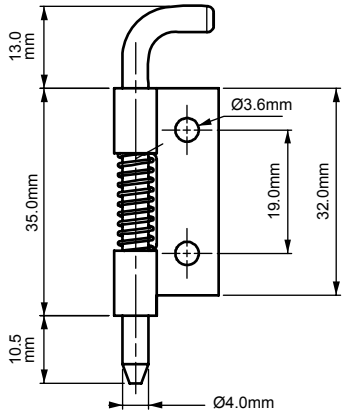
Specifications:
- Material: See Table
- Finish: See Table

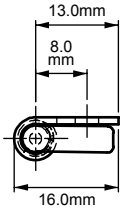
Features:
- For doors with a bend between 20 - 24mm
- Hinge rotation 120°
- Frame part is screwed on, door part is welded on
- O-Ring acts as retainer ring for pin: remove O-Ring to pull pin from hinge for door or panel removal

Item No.	Material	Finish	Version
295403	Stainless Steel	Stainless Steel	3
295404	Stainless Steel	Stainless Steel	4
295633	Steel	Zinc Plated	3
295634	Steel	Zinc Plated	4

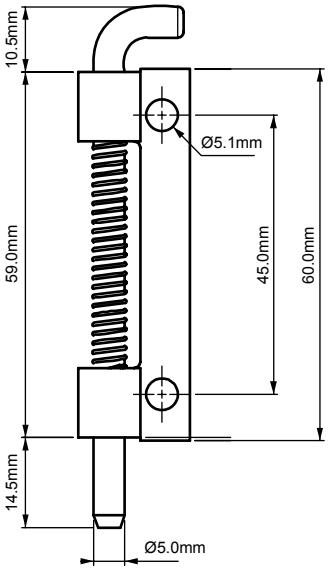
289 Series
Concealed Hinge

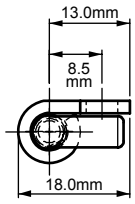
Version 1





Version 2





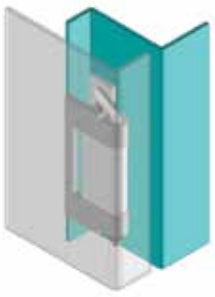
Specifications:
- Material: See Table
- Finish: See Table
- Bolts are not supplied

Features:
- For internally mounted doors
- Hinge rotation 135°
- Spring loaded hinge for easy door removal
- Both versions can be secured by screws or welding application

Item No.	Material	Finish	Version	Hand
289631001	Steel	Zinc Plated	1	Right
289631002	Steel	Zinc Plated	1	Left
289632001	Steel	Zinc Plated	2	Right
289632002	Steel	Zinc Plated	2	Left
289401001	Stainless Steel	Natural	1	Right
289401002	Stainless Steel	Natural	1	Left
289402001	Stainless Steel	Natural	2	Right
289402002	Stainless Steel	Natural	2	Left

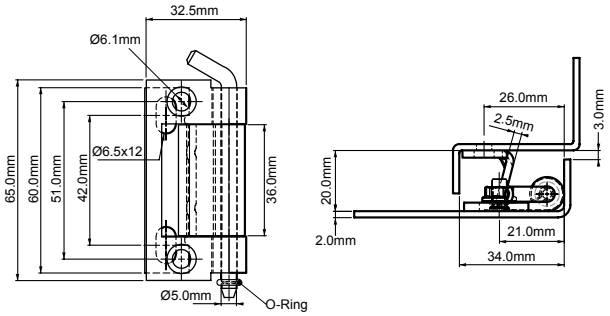
CONCEALED & SPRING LOADED HINGES

395 Series
Concealed Hinge

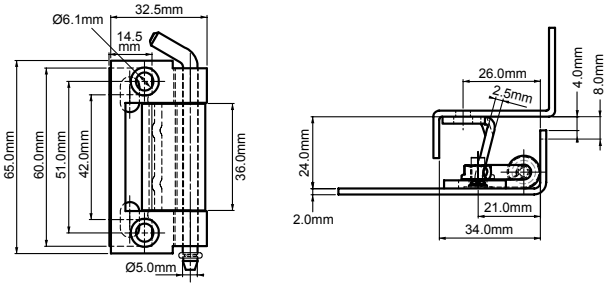


Suitable for LH RH Left or Right Hand

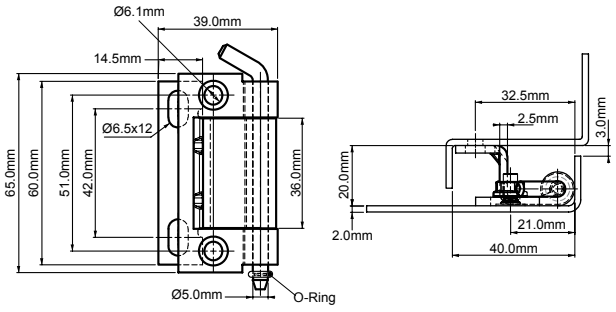
Version 1



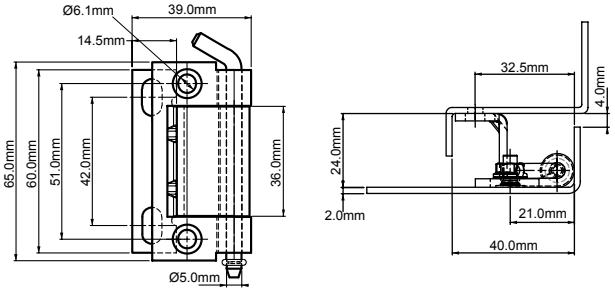
Version 2



Version 3



Version 4



Specifications:
- Material: See Table
  Finish: See Table

Features:
- For doors with bend between 20mm and 24mm
- Hinge rotation 120°
- Ideal for electric panels and machinery cover applications
- Frame part screwed on, door part welded on
- Bolts are not included
- O-Ring acts as retainer ring for pin: remove O-Ring to pull pin from hinge for door or panel removal

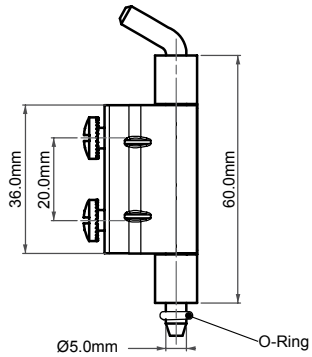
Item No.	Material	Finish	Version
395631	Steel	Zinc Plated	1
395632	Steel	Zinc Plated	2
395633	Steel	Zinc Plated	3
395634	Steel	Zinc Plated	4
395401	Stainless Steel	Natural	1
395402	Stainless Steel	Natural	2
395403	Stainless Steel	Natural	3
395404	Stainless Steel	Natural	4

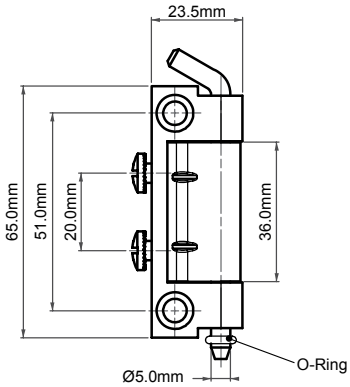
CONCEALED & SPRING LOADED HINGES

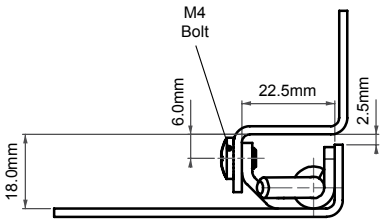
695 Series
Concealed Hinge

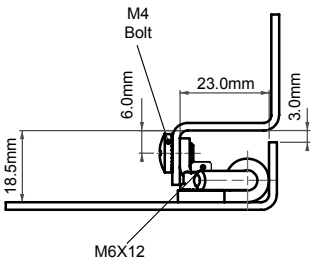
Version 1

Version 2









Stud weld fastening

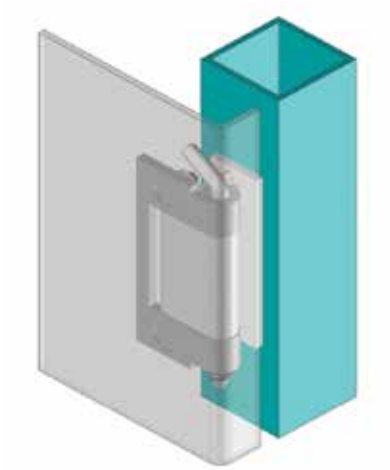
Specifications:
- Material: See Table
  Finish: See Table
- Bolts are not included

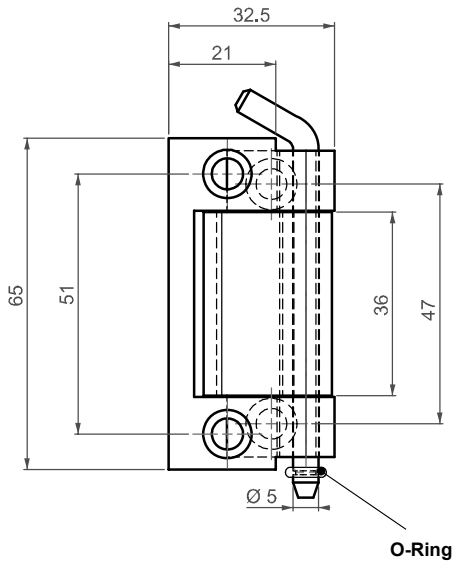
Features:
- For doors with bend of 18mm
- Hinge rotation 120°
- Ideal for electric panels and machinery cover applications
- Frame part screwed on and door part can be welded or screwed on
- O-Ring acts as retainer ring for pin: remove O-Ring to pull pin from hinge for door or panel removal

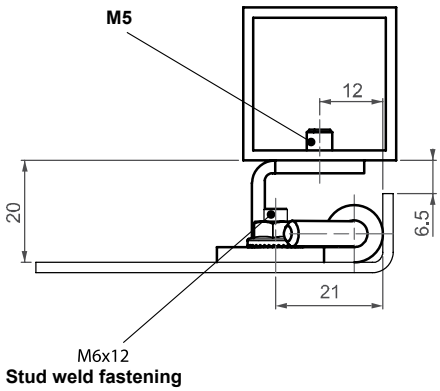
Item No.	Material	Finish	Version
695631	Steel	Zinc Plated (weld part is copper plated)	1
695632	Steel	Zinc Plated	2
695401	Stainless Steel	Natural	1
695402	Stainless Steel	Natural	2

CONCEALED & SPRING LOADED HINGES

795 Series
Concealed Hinge







Specifications:
- Material: See Table
- Finish: See Table

Features:
- For internally mounted doors
- Hinge rotation 135°
- Spring loaded hinge for easy door removal
- Both versions are either screwed on or welded
- Bolts are not supplied
- O-Ring acts as retainer ring for pin: remove O-Ring to pull pin from hinge for door or panel removal

Item No.	Material	Finish
79540	Stainless Steel	Natural
79563	Steel	Zinc Plated

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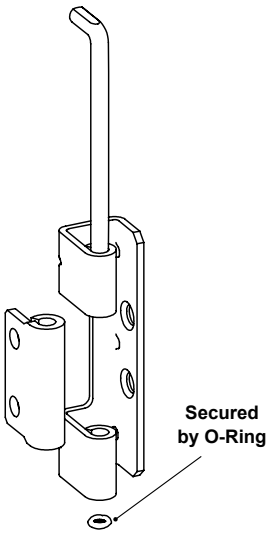
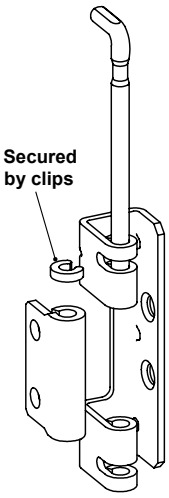
CONCEALED & SPRING LOADED HINGES

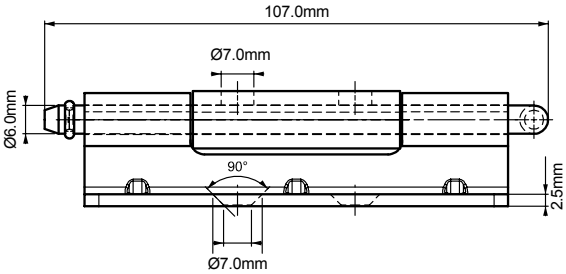
995 Series
Concealed Hinge

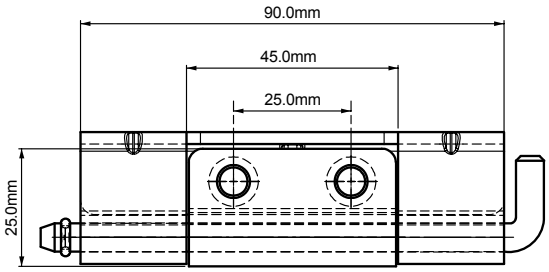
Version 3



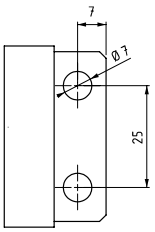
Version 4



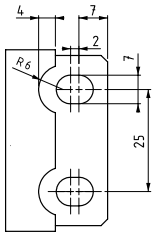




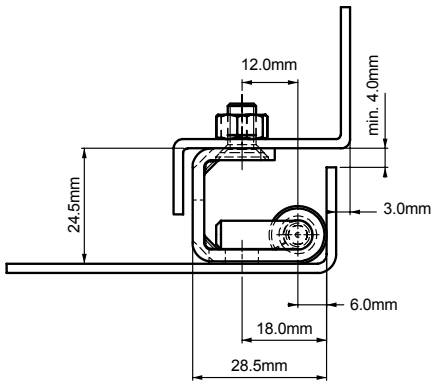
Type 1



Type 2



Middle Parts



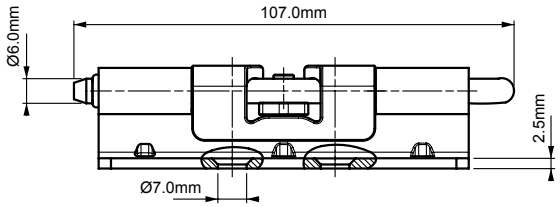
Specifications:
- Material: Steel
- Finish: Zinc Plated
- Welded Part: Copper Plated
- Bolts are not supplied

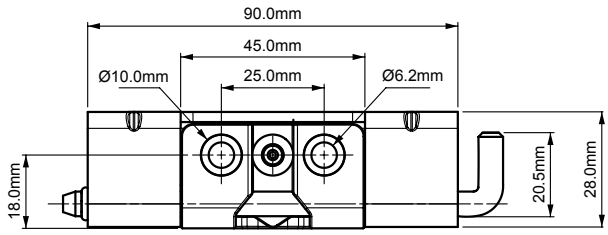
Features:
- Suitable for doors with 25mm bend
- Hinge rotation 110°
- Ideal for electric panels and machinery cover applications
- Side part can be mounted with M5 screw
- For Type 2 Middle Parts, please contact Essentra for details
- O-Ring acts as retainer ring for pin: remove O-Ring to pull pin from hinge for door or panel removal

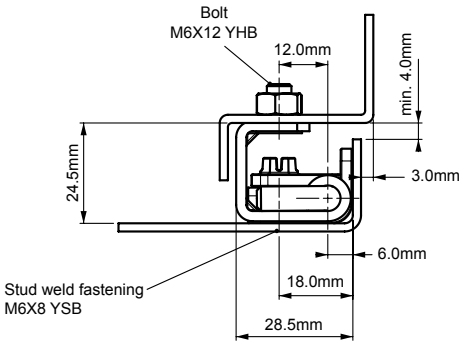
Item Number	Version	Middle Type	Securing Method
99563310	3	1	Hole
99563311	3	1	Stud
99563410	4	1	Hole
99563411	4	1	Stud

CONCEALED & SPRING LOADED HINGES

995 Series
Concealed Hinge

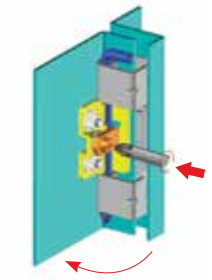




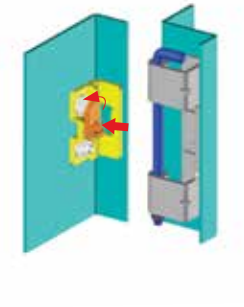


Position 1 - Closed door

Position 2 - After the door is opened, cam is rotated 90° with a screwdriver



Position 3 - The cover is removed



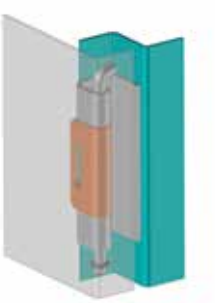
Stud version

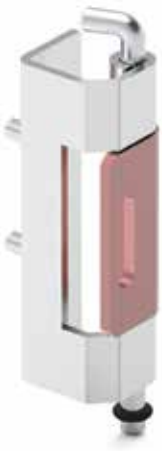
Specifications:
- Material: Steel
- Finish: Zinc Plated
- Welded part (Zinc Alloy) compliant to DIN-EN 1774
- Bolts or nuts are not supplied

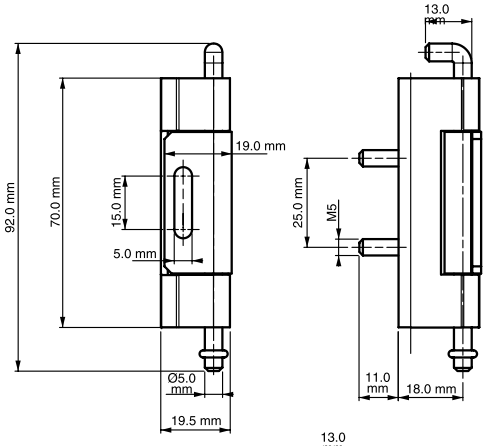
Features:
- Suitable for heavy-duty applications
- Suitable for doors with 25mm bend
- Hinge rotation 110°
- Ideal for electric panels and machinery cover applications
- Door can be removed with a screwdriver

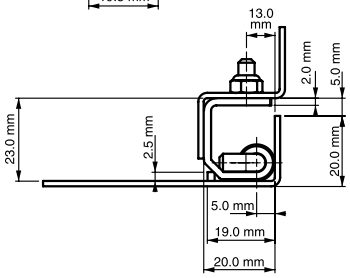
Item Number	Securing Method
99563210	Hole
99563211	Stud

1095 Series
Concealed Hinge







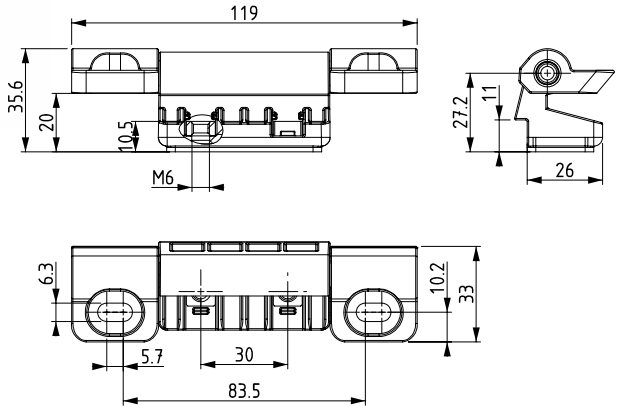


Specifications:
- Material:
  Body: Steel
  Pin: Steel
  Body Finish: Zinc Plated
  Fixed Parts: Copper Plated

Features:
- For doors with a bend of 23mm
- Hinge rotation 110°
- Easily installed to panel or door profile
- Suitable for left and right hand applications
- Ideal for electric panels and machinery cover applications

Item Number
109563

394 Series
Concealed Hinge



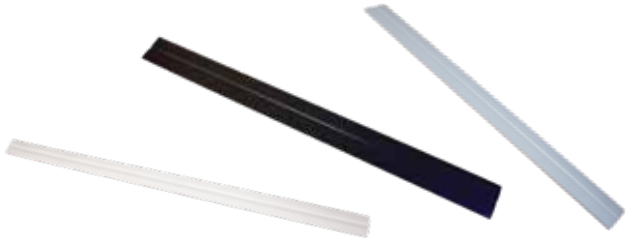
Specifications:
- Material:
  Frame Part: Nylon Black (PA6 30% GF)
  Door Part: Nylon Black (PA6 30% GF)
- Bolts are not supplied with hinge

Features:
- Suitable for lightweight panels, vehicle tool boxes and other applications
- Hinge rotation 90°
- Fastened with M6 screws

Item No.
394

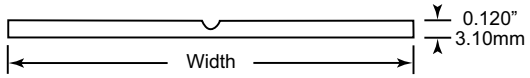
CONCEALED & SPRING LOADED HINGES

HIPC Series
Continuous Plastic Hinges



Specifications:

- Material: Modified Polyolefin Copolymer
- Color: See Table



Features:

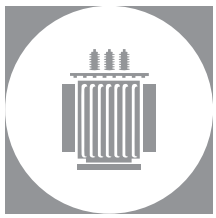
- Resistant to salt water, oil, solvents, dilute acids, alkalies and most chemicals
- Has UV Protection

Item No.	Color	Width		Roll Length	
		in	mm	ft	m
HIPC1125B	Black	1.125	28.6	50	15.24
HIPC1125G	Grey	1.125	28.6	50	15.24
HIPC1125W	White	1.125	28.6	50	15.24
HIPC1500B	Black	1.500	38.1	50	15.24
HIPC1500G	Grey	1.500	38.1	50	15.24
HIPC1500W	White	1.500	38.1	50	15.24
HIPC2000B	Black	2.000	50.8	50	15.24
HIPC2000G	Grey	2.000	50.8	50	15.24
HIPC2000W	White	2.000	50.8	50	15.24

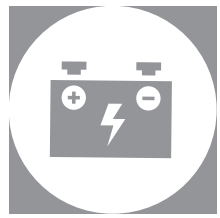
CUSTOM SOLUTIONS

Indoor & Outdoor Cabinets

IT Cabinets


Transformers

Industrial Machinery


Power Generators

HVAC

Road Transportation

Rail Transportation

Food Industry

Diversfied Applications

Our expertise ranges across multiple industries, supported by outstanding customer service. We can reduce your lead times and provide custom solutions and advice to help you achieve your business goals.

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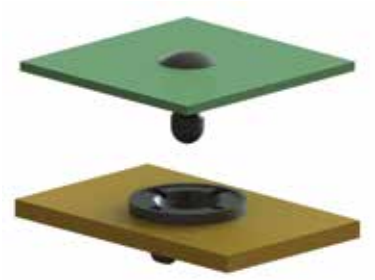
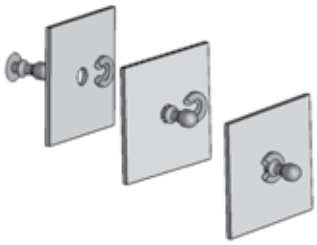
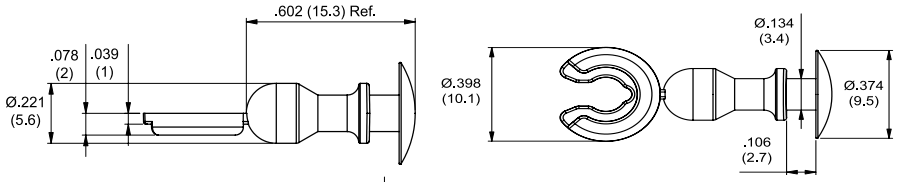
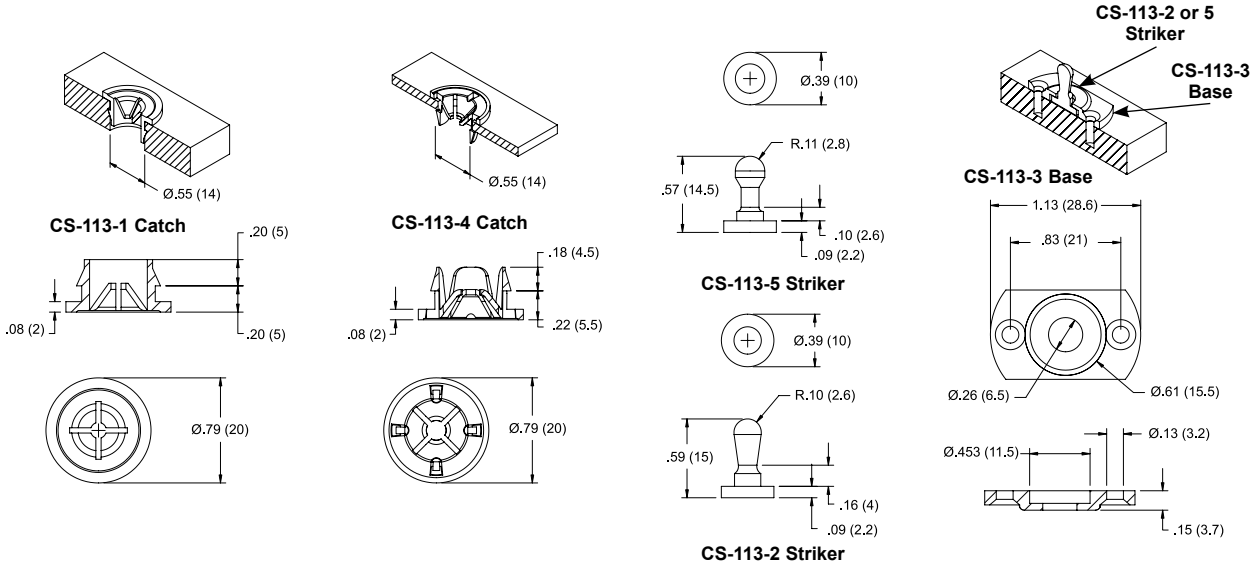
CS Series
Panel Catch and Striker







CS-113-6 Striker



Specifications:

- Material: See Table
- Color: See Table

Features:

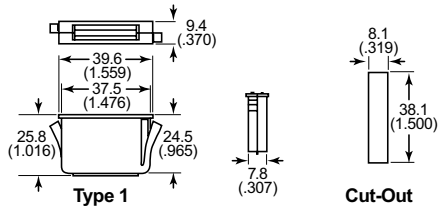
- Quick installation whenever latching is needed
- Striker is mounted with the striker base (CS-113-3) and screwed into the door or mounted to outside of removable panel (CS-113-6)
- The catch is designed for mounting in wood cabinets (CS-113-1) or into a panel (CS-113-4)

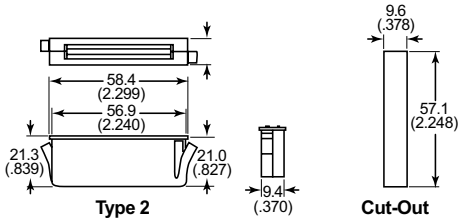
Item No.					
CS-113-1	**CS-113-4**	**CS-113-2**	**CS-113-5**	**CS-113-6**	**CS-113-3**
To press-fit into a .551 (14) Ø Hole, in a .394 (10) min. thick board of pliable material (I.e. wood, fiber-board, etc.)	To snap-lock in a .551 (14) Ø Hole, in a .125 (3.2) nominal panel thickness	Mounted with the use of CS-113-3 Base	Mounted with the use of CS-113-3 Base	To fit a .23-.25 (5.8 - 6.4) Ø Hole, in a .062 (1.6) thick panel Striker comes as one part including the retainer washer	Use #4, #5 or M3 countersunk screw.

Item No.	Color	Catch/Striker	Ø Hole (in)	Ø Hole (mm)	Material	Material UL Rating	Bulk Pack Qty.
CS-113-1	Black	Catch	0.551	14	Supertough Nylon 6/6	UL94 HB	500
CS-113-4	Natural	Catch	0.551	14	Nylon 6	UL94 V-2	500
CS-113-5	Natural	Striker	CS-113-3 Base	CS-113-3 Base	Nylon 6/6	UL94 V-2	500
CS-113-2	Black	Striker	CS-113-3 Base	CS-113-3 Base	Supertough Nylon 6/6	UL94 HB	500
CS-113-3	Black	Catch	0.260	6.5	Acetal	UL94 HB	500
CS-113-6	Natural	Striker	.230-.250	5.8-6.4	Impact Modified Nylon 6/6	UL94 HB	500

CATCHES & PANEL FASTENERS

MAGS Series
Magnetic Catches



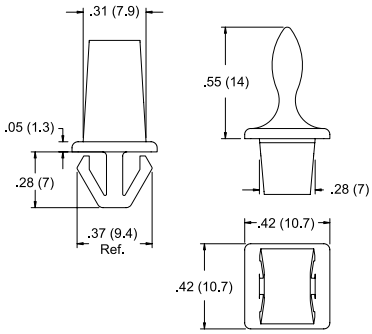


Specifications:
- Material: Polypropylene Shell

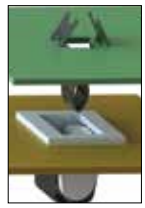
Features:
- Snap in design for quick installation
- Fits panel thickness of 0.020in (0.5mm) to 0.080in (2mm)

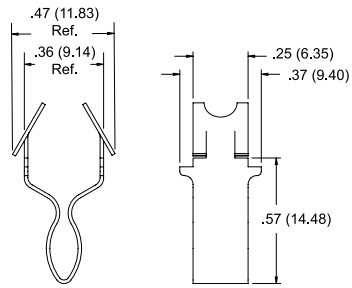
Item No.	Type	Bulk Pack Qty.
MAGS257A	1	20
MAGS259A	2	20

DCS Series
Metal & Plastic Catch and Striker

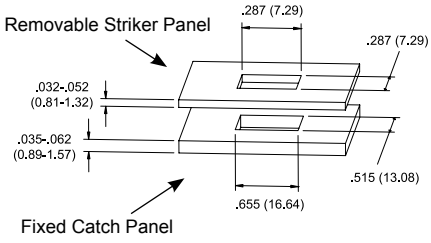


DCS-1

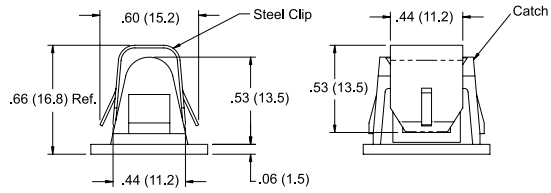




DCS-4



Mounting Holes



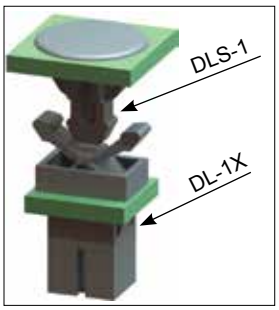
DCS-7

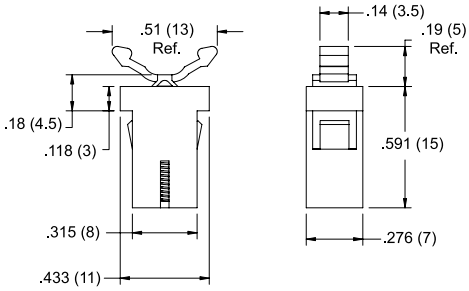
Specifications:
- Material: See Table
- Color: See Table

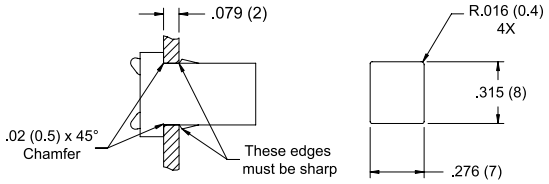
Features:
- Rugged latching device for metal cabinet doors and access panels

Item No.	Color	Catch/Striker	Material	Material UL Rating	Bulk Pack Qty.
DCS-1	Natural	Striker	Acetal	UL94 HB	500
DCS-4	Steel	Striker	Plated Steel	—	500
DCS-7	Natural	Catch	Nylon 6/6, Plated Steel	UL94 V-2	500

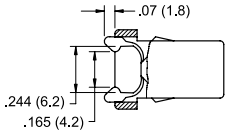
DL Series
Door Latch



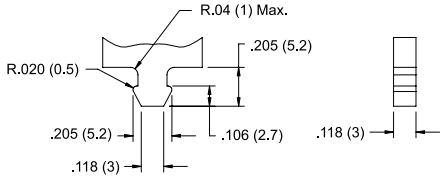




Mounting Hole



Locked Position



Striker Configuration

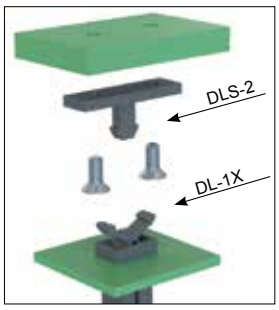
Specifications:
- Material: UL94 HB Acetel
- Color: Black

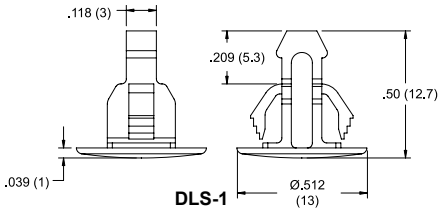
Features:
- Effective latching device, ideal for lightweight doors
- Snaps in from the front of the panel and locks securely in place
- Audible lock and release
- Supplied in released position

Locking Stroke = .21 (5.4)
Release Stroke = .05 (1.3)
Locking Stroke Force = 16 oz. ± 6.3 oz. (500 gr. ± 200 gr.)
Retention Force (Locked) = 32.2 oz. (1 kg.) Min.
Continuous Working Temperature = 14 to 140°F (-10 to 60°C)
Storage Temperature = -40°F to 176°F (-40°C to 80°C)
Life Cycle = 50,000 operations

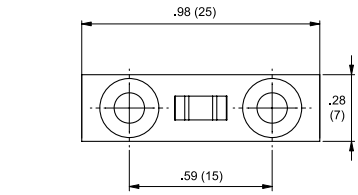
Item No.	Bulk Pack Qty.
DL-1X	500

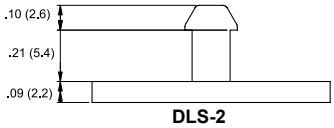
DLS Series
Door Latch Striker





DLS-1





DLS-2

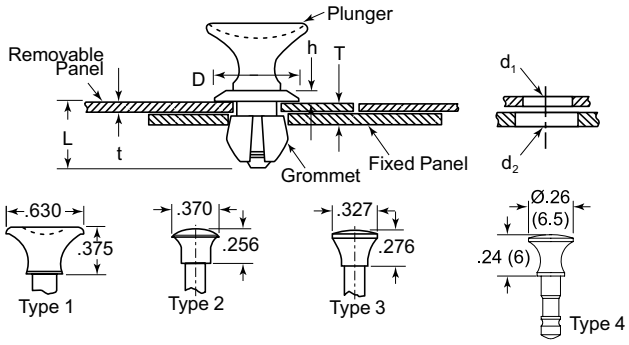
Specifications:
- Material: UL94 HB Acetel
- Color: Black

Features:
- Designed as a striker to be used with part number DL-1X shown above

Item No.	Mounting Hole	Panel Thickness	Bulk Pack Qty.
DLS-1	.276 x .315 (7 x 8) Rectangular Hole	.028 - .079 (0.7 - 2.0)	1000
DLS-2	#4 or M3 Countersunk Screws	N/A	1000

PANEL FASTENERS

RSL Series
Snap Latch Rivet



Specifications:
- Material:
  Plunger: Nylon 6
  Grommet: Polycarbonite
- Color: See Table

Features:
- Designed for fast and easy installation or removal by hand by snapping in and out of place
- Ideal for applications that require maintenance work
- Offered in three different head styles and four different grommets for various panel thicknesses and hole sizes
- Grommet and Plunger require mating part and are sold separately, see table for details

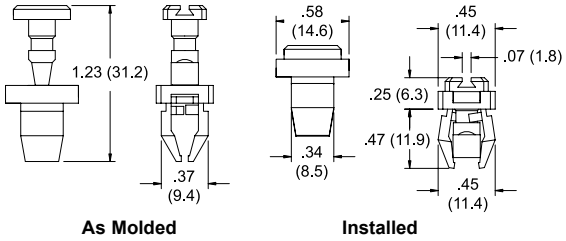
Plunger

Item No. Black	Item No. White	Type	Panel Thickness T in	Panel Thickness T mm	Removal Panel Hole d1 in (+0.004)	Removal Panel Hole d1 mm (+0.1)	Mating Grommet Black	Mating Grommet White	Bulk Pack Qty.
RSLP100B	RSLP100W	1	0.059 - 0.146	1.5 - 3.7	0.299	7.60	RSLG100B	RSLG100W	1000
SLPL-1L-B	SLPL-1L-W	1	0.079 - 0.165	2.0 - 4.2	0.299	7.60	SLG-1L-B	SLG-1L-W	1000
SLPL-2L-B	SLPL-2L-W	1	0.118 - 0.205	3.0 - 5.2	0.299	7.60	SLG-2L-B	SLG-2L-W	1000
RSLP120B	RSLP120W	1	0.228 - 0.319	5.8 - 8.1	0.299	7.60	RSLG120B	RSLG120W	1000
RSLP200B	RSLP200W	2	0.059 - 0.146	1.5 - 3.7	0.299	7.60	RSLG100B	RSLG100W	1000
SLPB-1L-B	SLPB-1L-W	2	0.079 - 0.165	2.0 - 4.2	0.299	7.60	SLG-1L-B	SLG-1L-W	1000
SLPB-2L-B	SLPB-2L-W	2	0.118 - 0.205	3.0 - 5.2	0.299	7.60	SLG-2L-B	SLG-2L-W	1000
RSLP215B	RSLP215W	2	0.181 - 0.272	4.6 - 6.9	0.299	7.60	RSLG115B	RSLG115W	1000
RSLP220B	RSLP220W	2	0.228 - 0.319	5.8 - 8.1	0.299	7.60	RSLG120B	RSLG120W	1000
SLPB-1M-B	SLPB-1M-W	3	0.059 - 0.146	1.5 - 3.7	0.237	6.00	SLG-1M-B	SLG-1M-W	1000
SLPB-2M-B	SLPB-2M-W	3	0.079 - 0.165	2.0 - 4.2	0.237	6.00	SLG-2M-B	SLG-2M-W	1000
SLPB-3M-B	SLPB-3M-W	3	0.118 - 0.205	3.0 - 5.2	0.237	6.00	SLG-3M-B	SLG-3M-W	1000
RSLP315B	RSLP315W	3	0.181 - 0.272	4.6 - 6.9	0.237	6.00	RSLG140B	RSLG140W	1000
SLPB-1S-B	SLPB-1S-W	4	0.079 - 0.158	2.0 - 4.0	0.179	4.55	SLG-1S-B	SLG-1S-W	1000
SLPB-2S-B	SLPB-2S-W	4	0.098 - 0.177	2.5 - 4.5	0.179	4.55	SLG-2S-B	SLG-2S-W	1000

Grommets

Item No. Black	Item No. White	Panel Thickness t in	Panel Thickness t mm	Fixed Panel Hole d2 in (+0.004)	Fixed Panel Hole d2 mm (+0.1)	D in	D mm	L in	L mm	h in	h mm	Bulk Pack Qty..
RSLG100B	RSLG100W	0.043	1.1	0.319	8.1	0.425	10.8	0.339	8.6	0.079	2.0	1000
SLG-1L-B	SLG-1L-W	0.063	1.6	0.319	8.1	0.425	10.8	0.354	9.0	0.079	2.0	1000
SLG-2L-B	SLG-2L-W	0.098	2.5	0.319	8.1	0.425	10.8	0.394	10.0	0.079	2.0	1000
RSLG115B	RSLG115W	0.161	4.1	0.319	8.1	0.425	10.8	0.461	11.7	0.079	2.0	1000
RSLG120B	RSLG120W	0.209	5.3	0.319	8.1	0.425	10.8	0.508	12.9	0.079	2.0	1000
SLG-1M-B	SLG-1M-W	0.043	1.1	0.253	6.4	0.335	8.5	0.315	8.0	0.071	1.8	1000
SLG-2M-B	SLG-2M-W	0.063	1.6	0.253	6.4	0.335	8.5	0.335	8.5	0.071	1.8	1000
SLG-3M-B	SLG-3M-W	0.098	2.5	0.253	6.4	0.335	8.5	0.374	9.5	0.071	1.8	1000
RSLG140B	RSLG140W	0.161	4.1	0.253	6.4	0.335	8.5	0.433	11.0	0.071	1.8	1000
SLG-1S-B	SLG-1S-W	0.039	1.0	0.187	4.7	0.256	6.5	0.299	7.6	0.047	1.2	1000
SLG-2S-B	SLG-2S-W	0.059	1.5	0.187	4.7	0.256	6.5	0.319	8.1	0.047	1.2	1000

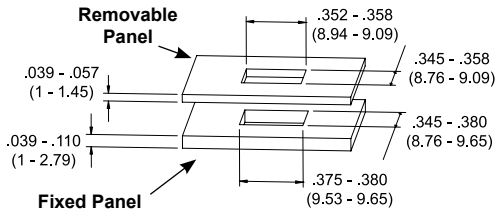
FQT Series
Quarter Turn Panel Fastener



As Molded **Installed**

Specifications:
- Material: UL94 HB Acetal
- Color: See Table

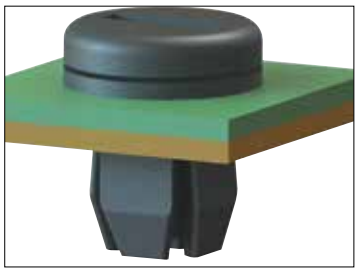
Features:
- Joins together one fixed panel and one removable panel
- Installed by driving the plunger into the grommet with a hammer, locking the two panels together
- Panels are easily separated using a screwdriver to rotate the plunger a quarter turn
- Supplied as one piece to reduce hardware and cost

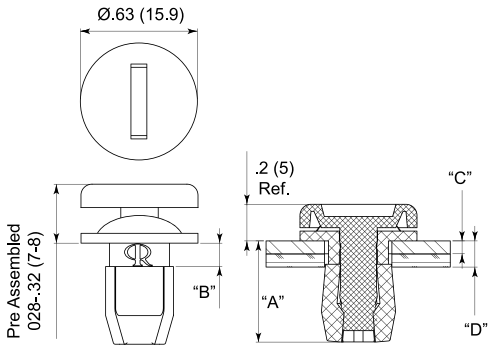


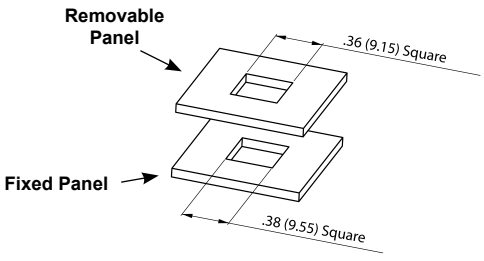
Mounting Hole

Item No.	Color	Bulk Pack Qty.
FQT-1	White	1000
FQT-1BK	Black	1000

QTPF Series
Quarter Turn Panel Fastener







Mounting Hole

Specifications:
- Material: UL94 HB Acetal
- Color: Black

Features:
- Joins together one fixed panel and one removable panel
- Using a flat-head screwdriver or coin, a quarter-turn releases the fixed panel while retaining the fastener in the removable panel
- Pre-assembled to reduce hardware and cost

Item No.	A		B		Removable Panel Thickness (C)		Total Panel Thickness (D)		Bulk Pack Qty.
	in	mm	in	mm	in	mm	in	mm	
QTPF-1BK	0.48	12.3	0.07	1.7	0.02 - 0.06	0.5 - 1.6	0.08 - 0.20	2.0 - 5.0	100
QTPF-2BK	0.54	13.7	0.12	3.1	0.07 - 0.12	1.8 - 3.1	0.16 - 0.24	4.0 - 6.2	100

UL® File Number & UL® Yellow Cards

Underwriter's Laboratories Inc. (UL®), plastics classification number is used to describe the performance of material. Tests conducted by UL® may include the determination of material flammability (burning characteristics), ignition characteristics from various thermal and electrical sources, electrical tracking, other electrical characteristics, physical and mechanical characteristics, and analytical tests. In addition, the effect of long-term exposure to elevated temperature (air-oven aging), water, ultraviolet light, cold, etc. on property-retention may be evaluated.

For more information and to download the UL® Yellow Card for a product, please visit www.ul.com and click on "Certifications."

UL® Flame Rating

UL94 classifications V-0, V-1, V-2, and HB describe the flame retardant levels for a given resin. V-0 rated resins typically have the highest flame resistance followed by V-1, V-2, and HB.

For more information on UL® Flame Ratings and the Burn Test, please visit www.ul.com.

Common Material Abbreviations

ABS = Acrylonitrile Butadiene Styrene

Acetal/POM = Polyacetal

CPVC = Chlorinated Polyvinyl Chloride

EPDM = Ethylene-Propylene-Diene-Monomer

HDPE = High-Density Polyethylene

HIPS = High Impact Polystyrene

LCP = Liquid Crystal Polymer

LDPE = Low-Density Polyethylene

Nitrile Rubber = Acrylonitrile Rubber

Nylon = Polyamide (PA)

PBT = Polybutylene Terephthalate

PC = Polycarbonate

PE = Polyethylene

PEI = Polyetherimide

PP = Polypropylene

PPE/PS = Polyphenylene Ether/Polystyrene Alloy

PPE/SB = Polyphenylene Ether/Styrene-Butadiene Alloy

PPS = Polyphenylene Sulfide

PS = Polystyrene

PSU = Polysulfone

PU = Polyurethane

PVC = Polyvinyl Chloride

PVDF = Polyvinylidene Fluoride

SEBS = Styrene-Ethylene Butylene-Styrene Block Copolymer

SIR = Silicone Molding Compound

TPE = Thermoplastic Elastomer

TPR = Thermoplastic Rubber

Adhesive Tape Usage Guidelines

Loads & Product Usage Guidelines

Long-term maximum product application loads generally should not exceed 0.25 psi. The surface area of contact is very critical for bond strength, so the amount of tape used should be maximized based on the application. In general, the tensile strength of the adhesive is higher than the peel or shear strength, so the product should be designed to be loaded in tension whenever possible.

Nylon & Adhesive Shelf Life

If products are kept under the Ideal Storage Conditions, shelf life is 1 year from date of shipment.

Ideal Storage Conditions

Stored in the original unopened bags at 73°F (23°C) and 50% relative humidity.

Temperature Considerations

Ideal application temperature for most adhesives is 70° - 100°F (21° - 38°C). Lower application temperatures should be avoided as the adhesive will be too firm and may not 'wet out' sufficiently.

Application Guide

Surface Condition: The bonding surfaces must be clean, uniform, dry and free of condensation. Do not use on fabric, coarse concrete, loose paint, or rough, loose surfaces.

Surface Preparation: For maximum performance, clean the mounting surfaces with a cleaning solvent such as a 50/50 mixture of isopropyl alcohol and water. Be sure to follow the solvent manufacturer's directions for use. Some surfaces may require a sealant or primer to achieve the desired bonding. Test the product on your actual application.

Application Pressure: Remove the release liner being very careful not to touch the adhesive surface and then quickly and firmly press the product into place. Firm pressure is needed to ensure full contact and to allow the adhesive to fully wet-out on the mating surfaces.

Dwell Time: The bond strength is affected by the substrate surface, application temperature and dwell time. At room temperature approximately half of the bond strength will be obtained within the first half hour with the majority of the strength achieved within 24 hours. Therefore, whenever possible wait 24 hours before applying load.

Acrylic vs. Rubber Based Adhesives: In general, rubber based adhesives offer higher initial tack whereas acrylic based adhesives maintain higher mechanical strength over time. One should evaluate the performance of the product on the actual end use application. Contact your local Essentra representative for additional physical property and chemical resistance data.

MATERIAL DATA CHART FOR INJECTION AND DIP MOLDED PRODUCTS

	Polyethylene			Nylon 6/6								
	Low Density	High Density	Polypropylene	UL94 V2 RMS-01	UL94 V0 RMS-19	V2 Heat Stabilized RMS-47	V2 UV Stabilized RMS-46	Thermoplastic Rubber	Standard Dip Vinyl	High Temperature Vinyl	EPDM	Silicone Rubber
Service Temperatures												
Continuous °F/°C	150/66	165/74	250/121	185/85	230/110	239/115	185/85	275/135	200/93	250/149	300/149	450/232
Intermittent °F/°C	175/79	215/102	257/125	—	—	—	—	300/148	350/177	425/218	425/218	600/315
Resistance Characteristics												
Effect of Sunlight	Crazes rapidly unless black color or ultraviolet inhibitor is used.		Crazes Rapidly	Discolors Slightly	Discolors Slightly	Discolors Slightly	Good Resistance	Crazes	Good Resistance	Good Resistance	Very Resistant	Very Resistant
Effect of Weak Acids	Resistant	Very Resistant	None	Resistance	Resistance	Resistance	Resistance	Very Resistant	Very Resistant	Very Resistant	Good Restance	Poor
Effect of Strong Acids	Attacked by oxidizing acids	Attacked Slowly by oxidizing acids	Attacked by oxidizing acids	Attacked	Attacked	Attacked	Attacked	Attacked by oxidizing acids	Resistant	Resistant	Very Resistant	Poor
Effect of Weak Alkalies	Resistant	Very Resistant	None	None	None	None	None	Very Resistant	Very Resistant	Very Resistant	Very Resistant	Poor
Effect of Strong Alkalies	Resistant	Very Resistant	Very Resistant	None	None	None	None	Very Resistant	Resistant	Resistant	Very Resistant	Poor
Effect of Organic Solvents	Resistant Below (140°F/60°C)	Resistant Below (176°F/80°C)	Resistant Below (176°F/80°C)	Resists Most	Resists Most	Resists Most	Resists Most	Resists Most	Resistant to alcohols, aliphatic hydrocarbons and oils	Resistant to alcohols, aliphatic hydrocarbons and oils	Resistant	Poor

Chart is a guide for typical applications for products. Due to the number of variables in each process, some products may not work for the application shown above, we recommend sampling to ensure. Material data contained in this chart is for reference only. Essentra Components reserves the right to change this information at any time without notification. Please consult factory for more information.

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Essentra Plastics LLC, d/b/a Essentra Components (the “Supplier”) Essentra U.S. Terms and Conditions of Sale

1. GENERAL
1.1 These Terms and Conditions shall apply to the sale and supply of Products by the Supplier to the Customer.
1.2 The contract governing the sale and supply of Products by the Supplier to the Customer shall in each instance consist of (i) these Terms and Conditions, (ii) the Sales Sheet (if applicable), and (iii) the Confirmation (if applicable), which shall be to the express exclusion of any other terms and conditions (including any Customer terms and conditions) referred to in any negotiations, the Confirmation, or course of dealing between the parties.
1.3 The Supplier reserves the right to modify these Terms and Conditions at any time to reflect changes in how the Supplier accepts payment from the Customer, changes in relevant laws and regulatory requirements and any other circumstances which are reasonable in the Supplier's opinion. If the Supplier modifies these Terms and Conditions, the Supplier will post the modification on its website and/or notify the Customer of the modified Terms and Conditions. The Supplier will also update the "last updated" date at the top of these Terms and Conditions. Every time the Customer orders Products from the Supplier, the Terms and Conditions published on the Supplier's website at that time or previously notified by the Supplier to the Customer will apply to the applicable Contract.

2. DEFINITIONS AND INTERPRETATION
2.1 In these Terms and Conditions:
“Confirmation” has the meaning given in clause 3.4.2;
“Contract” means each individual contract formed pursuant to clause 3.4 and which consists of those documents specified in clause 1.2;
“Customer” the person purchasing Products pursuant to orders placed in accordance with clause 3;
“Delivery” means the delivery of the Products in accordance with clause 8.1 or 8.2 (as applicable);
“Export Controls” means all laws, regulations, codes and controls on the import and export of goods and services in and out of a country or relevant administrative area or applied by reason of the country of origin of the Products or part of them, including the United States' Export Administration Regulations, the International Traffic in Arms Regulations, the United Kingdom's and European Union's military and dual-use lists and any similar list each as amended, supplemented or substituted from time to time;
“Group” means in relation to a company, that company and any subsidiary and any holding company of that company and any subsidiary of any such holding company in each case from time to time;
“Intellectual Property Rights" means patents, utility models, rights in invention, copyright and neighbouring and related rights, database rights, moral rights, design rights, trademarks, trade names and get-up, goodwill, know-how, confidential information and other intellectual property rights, whether registered or unregistered and including all applications for the grant of the foregoing and all rights or forms of protection having similar or equivalent effect to any of the foregoing which may subsist anywhere in the world;
“Materials" has the meaning given in clause 4.1;
“Permitted Method" means email, telephone, electronic data interchange or any other method of communication between the parties which is permitted by the Supplier from time to time;
“Products" means the products made available for sale (and, if applicable sold) by the Supplier from time to time and (to the extent applicable) as set out in the Sales Sheet and/or Confirmation;
“Restricted Party" means a person or entity that is listed on, owned or controlled by, or acting on behalf of, a person listed on a Sanctions List, or otherwise a subject of Sanctions;
“Sales Sheet" means the Supplier's pro forma document which can be used to detail certain commercial terms of the Contract which may be formed when the Supplier accepts an order placed by the Customer;
“Sample" means a sample of the Product provided by the Supplier to the Customer;
“Sanctions Authority" means (a) the Security Council of the United Nations; (b) the Department of State, the Department of the Treasury and the Office of Foreign Assets Control of the United States of America; (c) the Council and the Commission of the European Union; (d) Her Majesty's Treasury of the United Kingdom; and (e) any other relevant governments, departments, authorities, institutions or agencies;
“Sanctions List" means the Specially Designated Nationals and Blocked Persons list maintained by the United States' Office of Foreign Assets Control, the Consolidated List of Financial Sanctions Targets maintained by Her Majesty's Treasury, or any similar list maintained by or public announcement of a Sanctions designation made by, a Sanctions Authority, each as amended, supplemented or substituted from time to time;
“Sanctions" means any trade, economic or financial sanctions laws, regulations, embargoes or restrictive measures administered, enacted or enforced by a Sanctions Authority;
“Specification" means the specification of the relevant Product which may be applicable pursuant to clause 5.3;
“Supplier" means the Essentra group company named at the beginning of these Terms and Conditions;
“Terms and Conditions" means these terms and conditions as updated and varied from time to time; and
“Working Days" means any day other than a Saturday, Sunday or public holiday in the country in which the Supplier is located.
2.2 In these Terms and Conditions: (i) a "party" means the Supplier or the Customer (as applicable) and "parties" means both of them, (ii) headings are for convenience only and shall not affect its interpretation, (iii) references to a "person" include any individual, company, corporation, firm, partnership, association, organisation, institution, trust or agency, whether or not having a separate legal personality, (iv) words in the singular shall include the plural and vice versa as the context admits or requires, (v) any reference to any statute or statutory provision shall, unless the context otherwise requires, be construed as a reference to that statute or statutory provision as from time to time amended, consolidated, modified, extended, re-enacted or replaced, (vi) the word "including" shall, unless the context otherwise requires, mean "including without limitation", and (vii) "in writing" includes by email or other written Permitted Method.

3. ORDER AND CONFIRMATION
3.1 The Supplier shall supply Products ordered by the Customer from time to time in accordance with these Terms and Conditions.
3.2 Each order placed by the Customer shall be deemed to be a separate offer to purchase Products under these Terms and Conditions which the Supplier shall be free to accept or decline at its absolute discretion.
3.3 Orders may be placed by the Customer in one of three ways:
3.3.1 by completing a Sales Sheet which includes specific details of the Products required by the Customer (and which does not anticipate or require any subsequent call-off or other communication) and which is signed by both the Customer and the Supplier;
3.3.2 by placing an order from time to time by a Permitted Method, where the order is governed by (and is made under) a previously agreed Sales Sheet; or
3.3.3 by placing an order from time to time by a Permitted Method, but where a Sales Sheet has not been completed or agreed.
3.4 An order placed in the manner described in:
3.4.1 clause 3.3.1 shall be deemed accepted by the Supplier on execution by both parties of the Sales Sheet; and
3.4.2 clauses 3.3.2 or 3.3.3 shall be deemed accepted by the Supplier upon the sending by the Supplier of an order acknowledgement and confirmation by a written Permitted Method and which shall confirm the commercial terms of the order (a "Confirmation"), and in each case a separate contract will be formed upon such acceptance, save that there shall be deemed to be no acceptance where the price of the Product has been incorrectly quoted or stated by the Supplier in a Sales Sheet or Confirmation.
3.5 The Customer shall act in good faith and with accuracy if it forecasts its requirements for Products. Unless otherwise set out in a Sales Sheet, a product forecast shall be binding on the Customer and shall constitute an order for Products in accordance with clause 3.3.
3.6 Each Contract shall consist of these Terms and Conditions and (to the extent applicable) the Sales Sheet and the Confirmation, to the exclusion of any terms and conditions the Customer may seek to impose.
3.7 The Supplier reserves the right to decline to accept or to cancel any order for Products or to impose reasonable conditions prior to accepting any order (including the prior receipt of a letter of credit or cleared funds from the Customer) including where the Supplier considers it reasonably necessary for security or fraud prevention purposes or to comply with any applicable laws or regulations in the country of sale, distribution or use.
3.8 All orders placed by the Customer via the Supplier's website shall be subject to the terms and conditions specified on that website.
3.9 If a price quotation is provided by the Supplier in respect of any Products, the quotation shall remain valid for 30 days from the date it is given (unless otherwise specified by the Supplier) but shall not bind the Supplier until the applicable order is accepted by the Supplier in accordance with clause 3.4.
3.10 Once an order has been accepted by the Supplier it cannot be cancelled, varied or suspended by the Customer without the written agreement of the Supplier.
3.11 In the event of any conflict between the following, the order of precedent between them shall be as follows: (i) the Confirmation, (ii) the Sales Sheet, and (iii) these Terms and Conditions.

4. DESCRIPTIONS, SAMPLES AND LITERATURE
4.1 Unless otherwise confirmed by the Supplier in writing, nothing in any materials produced by or on behalf of the Supplier which includes images and/or descriptions of the Products (including website content, CAD files, technical drawings, product measurements and specifications, catalogue content or any other Product-specific imagery and information) ("Materials") is to be considered a representation of the source of origin, manufacturer or production of Products or any part of them.
4.2 Subject to clause 11.1 all information contained in the Materials are published for the sole purpose of giving the Customer an approximate idea of the Products described in them and will not be relied on by the Customer or form part of the Contract except as otherwise expressly provided in the Sales Sheet and/or the Confirmation.
4.3 Any typographical, clerical or other manifestly obvious error or omission in any quote, price list, Confirmation, label, packaging, invoice or other document or information issued by the Supplier may be corrected by the Supplier, without liability to the Customer, at any time either by correcting any such matter in public by publishing the correction on the Supplier's website or by notifying the Customer in writing and such correction shall be immediately binding upon the Customer.
4.4 Except as otherwise required by law, a Contract shall not be (i) a sale by Sample, even if Samples have been provided to the Customer, unless specified otherwise in the Sales Sheet or otherwise agreed and specified in the Confirmation, or (ii) a sale by description, even if a description has been provided.

5. FITNESS FOR PURPOSE AND SPECIFICATIONS
5.1 The Customer will undertake appropriate tests to ensure that the Products are fit for all of the Customer's purposes. Subject to clause 5.2, the Customer expressly acknowledges that, irrespective of any guidance provided to it by the Supplier, in determining whether the Product will be fit for all its purposes, it is not relying on (i) the Supplier's skill and judgement, or (ii) any Materials which are provided or made accessible by the Supplier to the Customer.
5.2 If the Customer wishes to rely on the Supplier's skill and judgement in relation to a Product being fit for a particular purpose then prior to placing an order the Customer must expressly advise the Supplier in writing of the particular purpose and that it wishes to rely on the Supplier's confirmation of fitness for purpose rather than conduct its own testing. The Supplier shall advise the Customer of any additional charges which will apply if such confirmation is given. The Customer shall only be entitled to rely on the Product being fit for a particular purpose if the Customer has provided all the information which the Supplier would need to undertake the requisite testing and the Supplier has expressly confirmed in the Sales Sheet and/or the Confirmation that the Product can fulfil a particular purpose.
5.3 A Specification in relation to a Product shall only take effect and form part of a Contract where specified in the Sales Sheet and/or the Confirmation (and in each case this may be facilitated by way of a cross-reference to a pre-agreed specification document). The parties may agree a process for producing and agreeing a Specification, which shall be set out in the Sales Sheet. A Specification may include (inter alia) details of the Products measurements, tolerances, regulatory compliance, packaging and compliance with quality standards.

6. PRICE
6.1 The price of Products shall be the price specified in the Sales Sheet or as otherwise agreed and specified in the Confirmation (as applicable). Prices specified in a Sales Sheet will be subject to review and possibly change from time to time in accordance with the mechanism specified in that Sales Sheet.
6.2 The Supplier will use its reasonable endeavours to ensure that prices are accurately specified in any quote and in the Materials.

6.3 The Supplier reserves the right to invoice sums in addition to the agreed price to reflect any increase in the cost to the Supplier of supplying any Products which is due to: (i) any increase in the cost of labour or materials (including any storage costs) as a consequence of Delivery of the Products not being in accordance with clause 8.1 or 8.2 (as applicable), (ii) any variation requested by the Customer to delivery dates, quantities, the Specification or the scope of the Supplier's instructions, (iii) any delay or additional work or materials caused by any erroneous instructions, neglect or default of the Customer, or (iv) any failure of the Customer to provide the Supplier with adequate and timely information, instructions, or specifications. Subject to the foregoing, prices charged will be those prevailing when an order is accepted.
6.4 Unless set out in the Sales Sheet or Confirmation, any reference to the price for Products is in U.S. Dollars and is exclusive of any VAT or other taxes or duties and of all costs and charges in relation to non-standard packaging, loading, unloading, carriage and insurance or similar costs, which (if any) shall be paid in addition by the Customer at the time it is due to pay for the Products. Where carriage or other costs to be borne by the Customer are paid by the Supplier, the Supplier shall be entitled to immediately render an invoice in respect of such costs.
7. Payment
7.1 The Supplier shall at its discretion be entitled to invoice the Customer for payment of the price of any Products or any other amounts in advance. The Supplier reserves the right, where the Customer is required to pay for an order in advance, to suspend Delivery of any Products pending receipt of payment.
7.2 Unless otherwise set out in a Sales Sheet or Confirmation, payment of the Supplier's invoice is due by the Customer (without deduction, discount, abatement or set-off) within 30 days of the date of the invoice, notwithstanding that Delivery may not have taken place or that property in the Products has not passed to the Customer. Payment shall be made in the currency stipulated in the Sales Sheet or Confirmation (as applicable). Time for payment of sums due from the Customer shall be of the essence. No payment will be deemed received until received by the Supplier in cash or cleared funds.
7.3 Payment is to be made by the Customer via the payment method stipulated in the Sales Sheet or Confirmation (as applicable).
7.4 If the Customer is permitted to open a credit facility with the Supplier, it must furnish such information and references as may be requested by the Supplier and the Supplier may make a search with a credit reference agency in relation to the Customer. The Supplier reserves the right in its absolute discretion to grant, refuse or discontinue any credit facilities or reduce or suspend any credit facility at any time.
7.5 If any sums are not paid on or before the due date for payment, interest will accrue on the amount unpaid at the rate of six percent per annum above the base rate of (i) the bank specified in the Sales Sheet, or (ii) if no such bank is specified, the Wall Street Journal (or any successor). Such interest shall accrue on a daily basis from the due date until payment is made in full (both before and after any judgment).
7.6 If the Customer fails to make any payment when due pursuant to a Contract then, without prejudice to any other right or remedy available to the Supplier (including the right to charge interest pursuant to clause 7.5, the Supplier shall be entitled to: (i) deduct outstanding sums from any sums owed by the Supplier to the Customer under the Contract or otherwise, (ii) require the Customer to pay any costs of storage of the Products, (iii) suspend any further deliveries to the Customer under the Contract or any other contract between the parties until paid, (iv) resell any Products not yet delivered to the Customer, and/or (v) retain any sums paid as deposit for the Products.

8. DELIVERY
8.1 Where the Customer's order has been placed in the manner described in clauses 3.3.1 or 3.3.2, subject to anything specified to the contrary in the Sales Sheet or otherwise agreed and specified in the Confirmation, the Contract shall be Ex Works (Incoterms 2010) at the Supplier's premises and Delivery of the Products shall be effected accordingly. Additional details regarding the physical Delivery of the Products (including the date of collection by the Customer) may be agreed between the parties and set out in the Sales Sheet and/or Confirmation.
8.2 Where the Customer's order has been placed in the manner described in clause 3.3.3 (but subject to clause 8.3), Products will be sent to the Customer by a carrier service chosen by the Supplier, acting reasonably. Delivery of the Products to the Customer shall be effected by the Supplier delivering the Products to the carrier or by collection by the carrier. Thereafter, transport of such Products shall be subject to the carrier's conditions which shall be notified to the Customer if the Customer requests, and, subject to clause 10.1, the Supplier shall have no liability for the acts or omissions of the relevant carrier, unless otherwise agreed and specified in the Confirmation. The Supplier may deliver Products earlier than any agreed delivery date.
8.3 Where it is agreed and specified in the Confirmation that Products ordered in the manner described in clause 3.3.3 shall be delivered by a method other than that referred to in clause 8.2 then delivery shall be effected: (i) where the Products are to be collected by the Customer from the Supplier's premises, by the Supplier notifying the Customer that the Products are ready for collection, (ii) where the Products are delivered by the Supplier, by the Supplier delivering the Products to the address nominated by the Customer for delivery, or (iii) where the Products are to be transported by a third party, by collection by or delivery to that third party of the Products.
8.4 The remainder of this clause 8 shall apply to all Contracts regardless of the manner in which the order was placed by the Customer.
8.5 Unless otherwise set out in the Sales Sheet or Confirmation, any periods of time or dates quoted for Delivery of the Products are estimates only. The Supplier will use its reasonable endeavours to deliver the Products by the delivery date set out in the Sales Sheet or Confirmation (as applicable). If the Supplier is unable to meet the delivery date because of an event outside the Supplier's control, the Supplier will contact the Customer with a revised delivery date.
8.6 The Supplier may deliver up to 10 percent more or 10 percent less than the quantity of Products specified in the order and the Customer shall accept such variation in quantity and shall pay the agreed price as adjusted to reflect such variation in quantity. Where more than 10 percent or less than 10 percent of the quantity of Products specified in the order are delivered, the Customer and the Supplier shall discuss the excess supply or short supply (as the case may be) and (a) in the case of an excess supply: (i) if the Customer wishes to keep the additional Products, the Customer shall pay the agreed price as adjusted to reflect excess supply, or (ii) if the Customer does not wish to keep the additional Products, the Customer shall promptly return the additional Products in accordance with the Supplier's directions and at the Supplier's cost, or (b) in the case of a short supply: (i) if the Customer does not wish to be delivered additional Products to make up the order, the Customer shall pay the agreed price as adjusted to reflect short supply, or (ii) if the Customer wishes to take delivery of additional Products to make up the order, the Supplier shall (where available and in supply) promptly deliver such additional Products to the Customer. The quantity of any consignment of Products, as recorded by the Supplier, on dispatch from the Supplier's premises, shall be conclusive evidence of the quantity received by the Customer on Delivery, unless the Customer can provide conclusive evidence to the contrary.
8.7 The Supplier shall not be responsible for any losses incurred or suffered by the Customer as a result of a failure to deliver the Products or for short Delivery unless the Customer has informed the Supplier in writing within 12 days from the estimated date of Delivery (in relation to a failure to deliver) or on the actual date of Delivery (in relation to a short Delivery). In any event, where for any reason the Supplier is liable to the Customer for any such losses, the Supplier's liability shall be limited to: (i) the amount by which the price in the cheapest available market of similar goods to replace those not delivered exceeds the agreed price of the Products not delivered, or (ii) if there is no such market, an amount equal to the agreed price applicable in respect of the Products not delivered.
8.8 Where the Customer fails to take Delivery of the Products or fails to give the Supplier adequate Delivery instructions in advance of the time stated for Delivery (other than by reason of any cause beyond the Customer's reasonable control or by reason of the Supplier's neglect or default) then the Products shall be deemed to have been delivered at the time stated for Delivery and, without prejudice to any other right or remedy available to the Supplier, the Supplier may: (i) store the Products until actual Delivery and charge the Customer for the reasonable costs (including insurance) of storage, if applicable but without any obligation on the Supplier to procure insurance, or (ii) where the Customer has failed to take Delivery of the Products on or before the seventh day following the intended day for Delivery, sell the Products at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) shall reimburse the Customer if the agreed price has already been paid by the Customer or invoice the Customer for any shortfall below the agreed price if payment has not yet been made.
8.9 Where the Products are to be delivered in instalments, each Delivery shall constitute a separate obligation and neither any failure by the Supplier to deliver nor any claim in respect of any one or more instalments by the Customer shall entitle the Customer to treat the Contract as a whole as repudiated.
8.10 If, upon Delivery of the Products, the Customer discovers that it has incorrectly ordered those Products, the Supplier's standard handling charge from time to time will be payable by the Customer if the Supplier agrees (at its sole discretion) to accept return of those Products (at the Customer's risk).
8.11 No returned Products from any source will be accepted by Supplier, without written approval, together with shipping instructions, from Supplier. If permission is granted by Supplier, the returned Goods will be subject to a 25 percent re-stock handling charge plus freight cost. Non-standard Products or fabricated items are not returnable in Supplier's sole and unfettered discretion. Unless otherwise agreed by Supplier, Products returned must be in their original, smallest, unopened packaging, or undamaged and in the same condition as when the Products were delivered to Customer.

9. RESTRICTED DELIVERY
9.1 The applicable Sales Sheet may specify that the Supplier does not deliver Products to addresses in certain countries. The Supplier may place an order for Products in those countries, but the order must be for Delivery to an address outside the prohibited countries.

10. RISK AND PROPERTY IN THE PRODUCTS
10.1 Products supplied by the Supplier shall be at the Customer's risk when the Products are unloaded from the Supplier's carrier at the Customer's premise or, where the Products are collected by the Customer from the Supplier's premise (or any other location agreed between the parties), immediately upon being made available for collection. The Customer acknowledges that it is responsible for arranging appropriate insurance for the Products from the point at which it assumes risk.
10.2 Title (legal and beneficial) in all Products supplied shall be retained by the Supplier until the Supplier has received in either cash or cleared funds all sums due in respect of the Products.
10.3 Following risk in the Products passing to the Customer pursuant to clause 10.1, until such time as title in the Products passes to the Customer, the Customer must: (i) hold such Products (on a fiduciary basis for and on behalf of the Supplier) as the Supplier's bailee and act in good faith to protect the Supplier's interests in the Products, (ii) store such Products (at no cost to the Supplier) separately from all other goods of the Customer in such a way that such Products remain identifiable as property of the Supplier and shall not mix them with any other goods, (iii) not pledge or allow any lien, charge, or other interest to arise over the Products or their documents of title, (iv) not destroy or deface any identifying marks on such Products or relevant packaging and maintain such Products in satisfactory condition, and (v) keep such Products insured on the Supplier's behalf and in the event of any claim resulting from loss, theft or damage hold the proceeds of such insurance on trust for the Supplier.
10.4 In the event that the Customer fails to pay the price of the Products by the due date, the Supplier shall be entitled at any time to require the Customer to deliver up the Products to the Supplier prior to title in the Products passing to the Customer. The Customer grants the Supplier and its agents the right at any such time to enter any premises where the Products are stored to inspect or, if the Customer has failed to deliver up possession when requested by the Supplier, to repossess the Products.

11. QUALITY OF PRODUCTS
11.1 The Supplier warrants that on Delivery all Products will be of satisfactory quality and (if applicable) will conform to the Specification.
11.2 The warranty contained in clause 11.1 shall not apply unless:
11.2.1 in respect of defects that are apparent on inspection of the Products, the Customer notifies the Supplier in writing, setting out in reasonable detail the nature of the breach of warranty within 14 days after Delivery;
11.2.2 in relation to latent defects, the Customer notifies the Supplier in writing setting out in reasonable detail the nature of the breach of warranty within 14 days after the defect became apparent or ought to have become apparent to the Customer, and in any event within 6 months of the date of Delivery;
11.2.3 after receiving such notice of the defect, the Supplier is given reasonable opportunity to inspect the Products and, at the Supplier's request (acting reasonably), the Products are returned to the Supplier's place of business (at the Customer's risk and cost) for the purpose of inspection;
11.2.4 the total price for the Products has been paid by the Customer; and
11.2.5 none of the events listed in clause 11.3 apply.
11.3 The Supplier shall not be liable for any breach of the warranty in clause 11.1 if:
11.3.1 the Customer makes any further use of the Products after giving notice in accordance with clause 11.2;
11.3.2 the defect arises because the Customer failed to follow the Supplier's oral or written instructions as to the storage, commissioning, installation, use and maintenance of the Products or (if there are none) good trade practice regarding the same;
11.3.3 the defect arises as a result of the Supplier following any drawing, design or specific requirement or instructions supplied or approved by the Customer (including any such thing which may constitute (or form part of) the Specification);
11.3.4 the Customer alters or repairs the Products without the written consent of the Supplier;
11.3.5 the Customer makes further use of or resells a Product after the Supplier gives notice of a defect or the Customer fails to comply with the Supplier's reasonable instruc-

tions in relation to a Product hold or recall;
11.3.6 the defect arises as a result of reasonable wear and tear, wilful damage, negligence, or abnormal storage or working conditions; or
11.3.7 the Products differ from the Specification as a result of changes made to ensure they comply with applicable statutory or regulatory requirements.
11.4 If the Customer fails to give notice of rejection in accordance with clause 11.2, it shall be deemed to have accepted the Products.
11.5 If the Customer rejects Products under clause 11.2 then the Customer shall be entitled to: (i) require the Supplier to repair or replace the rejected Products, or (ii) require the Supplier to repay the price of the rejected Products in full. Once the Supplier has complied with the Customer's requirement, it shall have no further liability to the Customer in respect of the rejected Products' failure to comply with clause 11.1.
11.6 The terms of the Contract shall apply to any repaired or replacement Products supplied by the Supplier. All Products which have been replaced pursuant to clause 11.5 shall belong the Supplier.
11.7 To the extent permitted by law and subject to clauses 12.5, the requirement to provide the remedy contained in clause 11.5 shall be the sole extent of the Supplier's liability arising out of or in connection with any breach of clause 11.1 or any other claim relating to the quality the Products.
11.8 The Customer shall comply with all reasonable instructions of the Supplier in relation to any Product hold or Product recall campaign organised in respect of any Products or any other corrective action reasonably taken by or on behalf of Supplier in respect of the Products after Delivery to Customer. Unless required by law, the Customer may not undertake any Product recall or withdrawal without the written permission of the Supplier and only then in strict compliance with the Supplier's instructions as to the process of implementing the withdrawal.

12. LIMITATION OF LIABILITY
12.1 For the purposes of this clause 12, a "Claim" means a claim arising out of or in connection with the supply of any Products to the Customer or as a result of breach of a Contract or of any duty of any nature whatsoever by the Supplier or pursuant to any use made by the Customer or resale by the Customer of any Products (or of any product incorporating any of the Products) or as a result of any representation, statement, act or omission including negligence or breach of statutory duty arising under or in connection with a Contract.
12.2 Subject to clause 12.5, the Supplier's aggregate liability (including any liability for the acts or omissions of its employees, agents, sub-contractors or other members of its Group) to the Customer for all Claims shall be limited as follows:
12.2.1 the Supplier's aggregate liability for a Claim in relation to any single item of Product shall be limited to the price payable by the Customer for that item; and
12.2.2 the Supplier's aggregate liability to the Customer for all other Claims brought in any calendar year shall be limited to the total amount paid by the Customer to the Supplier for Products during that calendar year.
12.3 Subject to clause 12.5, the Supplier shall not be liable to the Customer for any (a) indirect losses, (b) economic loss, (c) loss of profits or anticipated profits, (d) loss of anticipated savings, (e) loss of business or of expected future business, (f) damage to reputation or goodwill, or (g) punitive, exemplary, treble, special, indirect or consequential loss, which in each case arises under or in connection with a Contract.
12.4 Notwithstanding anything herein to the contrary and to the fullest extent permitted by law, all implied warranties, including but not limited to, the implied warranties of merchantability, non-infringement, or fitness or suitability for any particular purpose or use, are excluded from a Contract and, subject to clause 12.5, the Supplier will not be liable to the Customer for any loss of any kind whatsoever which arises out of the breach of implied warranties, terms or conditions, or breach of any duty of any kind imposed on the Supplier by operation of law.
12.5 Nothing in these Terms and Conditions shall exclude or limit the Supplier's liability in respect of (i) any death or personal injury caused by its gross negligence, (ii) any fraud or fraudulent misrepresentation, or (iii) any other liability to the extent that it may not be so excluded or limited by law.
12.6 If the Customer becomes aware that any third party has made or appears likely to make any claim against the Customer in respect of the Products (including as to defects in them or rights infringed by them) it shall: (i) promptly notify the Supplier of such claim or circumstance, (ii) promptly take such action as the Supplier may reasonably request to avoid, dispute, defend, mitigate, resist, appeal or compromise such claim or circumstance including to allow the Supplier to take full control of any proceedings or negotiations in connection with the claim, and (iii) not settle or compromise, make any admissions, nor agree any matter in the conduct of any dispute, without the prior written approval of the Supplier.
12.7 The Customer acknowledges that the limitations of liability set out in these Terms and Conditions are reasonable and reflect the commercial intentions of the parties in the context of the anticipated earnings of the Supplier under a Contract and the ability of the Customer to protect itself through insurance.

13. EVENTS OUTSIDE THE SUPPLIER'S CONTROL
13.1 The Supplier will not be in breach of the terms of a Contract for any delay in performing, or failure to perform, its obligations under the Contract if that failure or delay was due to any cause or circumstance beyond the Supplier's reasonable control, which shall, without limiting the generality of the term, include war or other action of military forces, terrorism, riot, civil commotion, sabotage, vandalism, accident, break down or damage to machinery or equipment, fire, flood, severe adverse weather, acts of God, strike, lock-out or other industrial disputes or shortage of materials at the market rates existing when the Contract is made, legislative or administrative interference (including, for example, Sanctions, embargos and Export Controls) or was due to any failure, neglect or delay on the part of the Customer or its agents or representatives.
13.2 The Supplier reserves the right to defer the date of Delivery or to terminate the Contract or reduce the volume of the Products ordered by the Customer (with an appropriate reduction in the price payable by the Customer) if it is prevented from or delayed in the carrying on of its business due to an event referred to in clause 13.1 occurring, and where the event in question continues for a continuous period in excess of 30 days either party shall be entitled to give notice in writing to the other to terminate the Contract with no liability due to or by either party.

14. TERMINATION
14.1 Without affecting any other rights and remedies, the Supplier may immediately terminate a Contract if: (i) the Customer fails to pay any sum due under the Contract by the due date for payment and remains in default not less than 14 days after being notified in writing by the Supplier to make such payment, (ii) the Customer materially breaches any term of the Contract, (iii) the Customer makes any composition or voluntary arrangement with its creditors or any step, application, order, proceeding or appointment is made or taken by or in respect of the Customer (including the making of an application or the giving of any notice) by the Customer or any other person for a distress, execution, winding up, dissolution, or to appoint an administrator of the Customer or (being an individual or firm) becomes bankrupt or (being a company) goes into liquidation (otherwise than for the purposes of a solvent amalgamation or reconstruction), (iv) an encumbrance takes possession, or a receiver (administrative or otherwise) is appointed, of any of the property or assets of the Customer, or the Customer ceases, or threatens to cease, to carry on business, or (v) the Supplier possesses bona fide and justifiable reason to believe that any of the events specified in (iii) or (iv) above is likely to occur and notifies the Customer accordingly.
14.2 Where the Supplier terminates the Contract in accordance with clause 14.1, without prejudice to clauses 10.3 or 10.4 or to any other right or remedy available to the Supplier: (i) the Supplier shall be entitled to terminate any other contract or suspend any further deliveries under any other contract between the parties, (ii) where the Products have been delivered, but not paid for, the Customer's right to possession shall terminate and the Supplier may dispose or use any of the Products as it wishes, and (iii) the price for the Products shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.
14.3 Termination of the Contract, for whatever reason, shall not affect any of its provisions which are expressed or are intended to continue to have effect after it has come to an end.

15. INDEMNITY
15.1 Without prejudice to the Supplier's other rights and remedies and to the fullest extent permitted by law, the Customer shall indemnify and keep indemnified the Supplier, its Group and its employees and agents on demand in full against any loss, liability, damage, costs, claims and expenses (including but not limited to attorney's fees, expert's fees and expenses of litigation) incurred or suffered as a result of: (i) any claim brought by any third party in respect of losses, injury or damage caused by any Products which, following Delivery, have been subjected to any use other than the authorised use for the Products (being the use for which the Products are commonly supplied) or modified or repaired by a person other than the Supplier, (ii) any allegation or claim made against the Supplier by a third party in relation to the actual or purported infringement of that third party's Intellectual Property Rights due to the incorporation into a Product design of any requirements, designs, specifications or other materials (including third party components) stipulated or provided by the Customer, (iii) the negligence of Customer, and (iv) the breach by Customer of any of the terms and conditions of this Contract.

16. INTELLECTUAL PROPERTY RIGHTS
16.1 Save where otherwise agreed in a Sales Sheet and/or Confirmation, the Supplier and/or the Supplier's licensors shall own all Intellectual Property Rights in the Products, Catalogue and any Materials.
16.2 The Customer is not granted any rights or licence in respect of the Products, other than the right to use or resell the Products in the Customer's ordinary course of business and otherwise in accordance with the terms and conditions of the Contract.
16.3 The Supplier grants to the Customer a limited, non-exclusive, non-transferable licence, without the right to sublicense, to access and view and (unless shown as not permitted) download and print the Materials in each case solely for the Customer's personal purposes.
16.4 The Customer shall not use, copy, adapt, transmit, distribute, modify, publish, reverse engineer, create derivative works based upon, distribute, licence, sell, transfer, publically perform, broadcast, communicate to the public or otherwise exploit the Materials except as expressly permitted in these Terms and Conditions or otherwise without the Supplier's prior written consent.

17. EXPORT CONTROLS AND SANCTIONS
17.1 The Customer warrants and represents that neither it, nor any of its Group, nor any directors, officers or employees of any of its Group: (i) is a Restricted Party or is engaging in or has engaged in any transaction or conduct that could result in it becoming a Restricted Party, (ii) has engaged or is engaging, directly or indirectly, in any trade, business or other activities with, for the benefit of, or on behalf of, any Restricted Party, (iii) has violated or is violating applicable laws, statutes, regulations and codes relating to Export Controls or Sanctions.
17.2 The Customer acknowledges that some of the Products, their components and technologies may be subject to Export Controls and Sanctions. The Customer shall: (i) comply with Export Controls and Sanctions applicable to both the Supplier and the Customer, (ii) not export, re-export, transfer or trade, directly or indirectly, with or to any Restricted Party nor any person or entity incorporated or located in any country subject to Sanctions, (iii) obtain at its cost any licence, permit, notification or authorisation required to sell, export, re-export, transfer or import the Products, their components and technologies, and (iv) ensure that the end-use of the Products will not breach any Export Controls or Sanctions, including weapons of mass destruction and military end-use controls.

18. GENERAL
18.1 The Customer shall at all times: (i) respond promptly to any request for guidance or instruction which is reasonably required by the Supplier to enable it to perform its obligations under a Contract; (ii) co-operate and liaise with the Supplier as necessary or desirable for the performance of a Contract, and (iii) promptly provide the Supplier with all documents and information in the Customer's possession or control which the Supplier reasonably requires in order to comply with its internal and Group policies and with all applicable laws and regulatory requirements (including all documents and information associated with know your customer checks).
18.2 The Contract contains the entire agreement and understanding of the parties and supersedes all prior agreements, understandings or arrangements (both oral and written) in respect of the Products. The Customer acknowledges that it is entering into the Contract without reliance on any undertaking, warranty, or representation given by or on behalf of the Supplier, other than as expressly contained in the Contract (or any document expressly incorporated into the Contract). This clause 18.1 is subject to clause 12.5(iv).
18.3 The parties acknowledge that in performing their obligations hereunder, each party is acting as an independent contractor. Nothing in this Contract shall be construed to create a partnership, joint venture, franchise or other similar arrangement between the parties. Neither party has the authority to enter into any agreement, or make any warranty or representation on behalf of the other party, except where and to the extent specifically authorized to do so in writing. To the extent that either party utilizes its employees for the performance of its duties pursuant to this Contract, that party shall be solely responsible for the payment of salaries and wages to such employees and

matters relating thereto (including the withholding and/or payment of all federal, state and local income and other payroll taxes), workers compensation, disability benefits, and all such other legal requirements of like nature applicable to such employees.
18.4 The Customer shall not transfer, assign, sub-contract or deal in any other similar manner any of its rights or obligations under the Contract or purport to do any of the same.
18.5 Any notice shall be in writing and addressed to the other party at, in the case of the Supplier, the address or email address specified in the Sales Sheet and/or Confirmation (as applicable) and in the case of the Customer at the address or email address specified in the Sales Sheet or (if that is not applicable) at its registered address or an email address it may have used to place an order for Products with the Supplier. Hand delivered notices shall take effect immediately; postal notices, two Working Days after posting by first class post (five Working Days if sent by airmail post); and notice sent by email, at the date and time the email is sent (unless an out-of-office message is received by the sending party, in which case notice will not have been validly served).
18.6 The invalidity, illegality or unenforceability of any provision of these Terms and Conditions shall not affect the other provisions and the Contract shall be given effect as if the invalid, illegal or unenforceable provision had been deleted.
18.7 Where the Contract is entered into in the manner described in clause 3.3.1, the Sales Sheet may be executed in any number of counterparts and by the parties on separate counterparts, but shall not be effective until each party has executed at least one counterpart. Each counterpart, when executed, shall be an original, but all counterparts shall together constitute one and the same instrument.
18.8 No variation of the Contract shall be effective unless it is made in writing, refers specifically to the Contract and is signed by both of the parties.
18.9 No waiver of any term, provision or condition of the Contract shall be effective, except where it is clearly made in writing and signed by the waiving party. No waiver of any particular breach of the Contract shall be held to be a waiver of any other or subsequent breach.
18.10 No omission or delay on the part of any party in exercising any right, power or privilege under the Contract shall operate as a waiver by it or of any right to exercise it in future or of any other of its rights under the Contract.
18.11 The rights and remedies arising under, or in connection with, the Contract are cumulative and, except where otherwise expressly provided in the Contract do not exclude rights and remedies provided by law or otherwise.
18.12 This Contract shall be construed and enforced in accordance with, and the rights of the parties shall be governed by, the laws of the State of Illinois (not including the choice of law rules thereof). The United Nations Convention on the International Sale of Goods shall not apply to the Contract. To the extent relevant pursuant to clause 8.1 the international rules for the interpretation of trade terms prepared by the International Chamber of Commerce (Incoterms) shall apply (unless agreed otherwise) but where they conflict with the Contract, the Contract shall prevail.
18.13 Subject to clause 18.14, any and all disputes, complaints, controversies, claims and grievances arising under, out of, in connection with, or in any manner related to this Contract or the relationship of parties hereunder shall be settled by binding arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The obligation to arbitrate shall extend to any affiliate, subsidiary, officer, employee, shareholder, principal, agent, trustee in bankruptcy or guarantor of a party making or defending any claim hereunder. Any decision and award of the arbitrator shall be final, binding and conclusive upon all of the parties hereto and said decision and award may be entered as a final judgment in any court of competent jurisdiction. Notwithstanding said Rules, any arbitration hearing to take place hereunder shall be conducted in Chicago, Illinois, before one (1) arbitrator who shall be an attorney who has substantial experience in commercial law issues. However, neither party shall institute an arbitration, or any other proceeding to resolve such disputes between the parties before that party has sought to resolve disputes through direct negotiation with the other party. If disputes are not resolved within three (3) weeks after a demand for direct negotiation, the parties shall attempt to resolve disputes through mediation conducted in Chicago, Illinois. If the parties do not agree on a mediator within ten (10) days, either party may request the American Arbitration Association to appoint a mediator who shall be an attorney who has substantial experience in commercial law issues. If the mediator is unable to facilitate a settlement of disputes within forty-five (45) days, the mediator shall issue a written statement to the parties to that effect and the aggrieved party may then seek relief through arbitration as provided above. The fees and expenses of the mediator shall be split and paid equally by each of the parties. In the event of any arbitration between the parties hereto involving this Contract or the respective rights of the parties hereunder, the party who does not prevail in such arbitration shall pay all the prevailing party's reasonable attorneys' and experts' fees, costs and expenses incurred by the prevailing party in resolving said matter. As used herein the term 'prevailing party' shall include, but not be limited to, a party who obtains legal counsel or brings an action against the other by reason of the other's breach or default and obtains substantially the relief sought whether by compromise, settlement, or judgment. Each party hereby consents to a single, consolidated arbitration proceeding of multiple claims, or claims involving two (2) or more parties. Either party may apply to any court of competent jurisdiction for injunctive relief or other interim measures as provided for elsewhere in this Contract, in aid of the arbitration proceedings, or to enforce the arbitration award, but not otherwise. Any such application to a court shall not be deemed incompatible or a waiver of this provision. The arbitrator shall be required to make written findings of fact and conclusions of law to support its award. Except as may be required by law, neither a party nor an arbitrator(s) may disclose the existence, content, or results of any arbitration hereunder without the prior written consent of both parties. By execution of this Agreement, the Customer consents to the jurisdiction of the American Arbitration Association and waives any objection which Customer may have to any proceeding so commenced based upon improper venue or forum non coveniens.
18.14 Nothing in this clause 18 shall limit the right of the Supplier to take proceedings against the Customer in any other court of competent jurisdiction, nor shall the taking of proceedings in any one or more jurisdiction preclude the Supplier from taking proceedings in any other jurisdiction, whether concurrently or not, to the extent permitted by the law of such other jurisdiction.

Essentra Plastics LLC, d/b/a Essentra Components (the "Supplier") Essentra Canada Terms and Conditions of Sale

1. GENERAL
1.1 These Terms and Conditions shall apply to the sale and supply of Products by the Supplier to the Customer.
1.2 The contract governing the sale and supply of Products by the Supplier to the Customer shall in each instance consist of (i) these Terms and Conditions, (ii) the Sales Sheet (if applicable), and (iii) the Confirmation (if applicable), which shall be to the express exclusion of any other terms and conditions (including any Customer terms and conditions) referred to in any negotiations, the Confirmation, or course of dealing between the parties.
1.3 The Supplier reserves the right to modify these Terms and Conditions at any time to reflect changes in how the Supplier accepts payment from the Customer, changes in relevant laws and regulatory requirements and any other circumstances which are reasonable in the Supplier's opinion. If the Supplier modifies these Terms and Conditions, the Supplier will post the modification on its website and/or notify the Customer of the modified Terms and Conditions. The Supplier will also update the "last updated" date at the top of these Terms and Conditions. Every time the Customer orders Products from the Supplier, the Terms and Conditions published on the Supplier's website at that time or previously notified by the Supplier to the Customer will apply to the applicable Contract.

2. DEFINITIONS AND INTERPRETATION
2.1 In these Terms and Conditions:
"Confirmation" has the meaning given in clause 3.4.2;
"Contract" means each individual contract formed pursuant to clause 3.4 and which consists of those documents specified in clause 1.2;
"Customer" the person purchasing Products pursuant to orders placed in accordance with clause 3;
"Delivery" means the delivery of the Products in accordance with clause 8.1 or 8.2 (as applicable);
"Export Controls" means all laws, regulations, codes and controls on the import and export of goods and services in and out of a country or relevant administrative area or applied by reason of the country of origin of the Products or part of them, including the Canadian Export and Import Permits Act, United States' Export Administration Regulations, the International Traffic in Arms Regulations, the Canadian Export Control List, the United Kingdom's and European Union's military and dual-use lists and any similar list each as amended, supplemented or substituted from time to time;
"Group" means in relation to a company, that company and any subsidiary and any holding body corporate of that company and any subsidiary of any such holding company in each case from time to time (the term "subsidiary" shall have the meaning ascribed to it in section 1(5) of the Canada Business Corporations Act and a "holding body corporate" shall have the meaning ascribed to it in section 1(4) of the Canada Business Corporations Act)
"Intellectual Property Rights" means all intellectual property rights including but not limited to patents, utility models, rights in invention, copyright and neighbouring and related rights, database rights, moral rights, design rights, trade marks (including service marks), trade names and get-up, goodwill, know-how, confidential information and other intellectual property rights, whether registered or unregistered and including all applications for the grant of the foregoing and all rights or forms of protection having similar or equivalent effect to any of the foregoing which may subsist anywhere in the world;
"Materials" has the meaning given in clause 4.1;
"Permitted Method" means email, telephone, electronic data interchange or any other method of communication between the parties which is permitted by the Supplier from time to time;
"Products" means the products made available for sale (and, if applicable sold) by the Supplier from time to time and (to the extent applicable) as set out in the Sales Sheet and/or Confirmation;
"Restricted Party" means a person or entity that is listed on, owned or controlled by, or acting on behalf of, a person listed on a Sanctions List, or otherwise a subject of Sanctions;
"Sales Sheet" means the Supplier's pro forma document which can be used to detail certain commercial terms of the Contract which may be formed when the Supplier accepts an order placed by the Customer;
"Sample" means a sample of the Product provided by the Supplier to the Customer;
"Sanctions Authority" means (a) the Security Council of the United Nations; (b) the Department of State, the Department of the Treasury and the Office of Foreign Assets Control of the United States of America; (c) the Council and the Commission of the European Union; (d) Her Majesty's Treasury of the United Kingdom; and (e) The Royal Canadian Mounted Police and the Canada Border Services Agency (f) any other relevant governments, departments, authorities, institutions or agencies;
"Sanctions List" means Consolidated United Nations Security Council Sanctions List, the list maintained under Canada's Special Economic Measures Act, the Specially Designated Nationals and Blocked Persons list maintained by the United States' Office of Foreign Assets Control, the Consolidated List of Financial Sanctions Targets maintained by Her Majesty's Treasury, or any similar list maintained by or public announcement of a Sanctions designation made by, a Sanctions Authority, each as amended, supplemented or substituted from time to time;
"Sanctions" means any trade, economic or financial sanctions laws, regulations, embargoes or restrictive measures administered, enacted or enforced by a Sanctions Authority;
"Specification" means the specification of the relevant Product which may be applicable pursuant to clause 5.3;
"Supplier" means the Essentra group company named at the beginning of these Terms and Conditions;
"Terms and Conditions" means these terms and conditions as updated and varied from time to time; and
"Business Days" means any day other than a Saturday, Sunday, public or statutory holiday in the country in which the Supplier is located.
2.2 In these Terms and Conditions: (i) a "party" means the Supplier or the Customer (as applicable) and "parties" means both of them, (ii) headings are for convenience only and shall not affect its interpretation, (iii) references to a "person" include any individual, company, corporation, firm, partnership, association, organisation, institution, trust or agency, whether or not having a separate legal personality, (iv) words in the singular shall include the plural and vice versa as the context admits or requires, (v) any reference to any statute or statutory provision shall, unless the context otherwise requires, be construed as a reference to that statute or statutory provision as from time to time amended, consolidated, modified, extended, re-enacted or replaced, (vi) the word "including" shall, unless the context otherwise requires, mean "including without limitation", and (vii) "in writing" includes by email or other written Permitted Method.

3. ORDER AND CONFIRMATION
3.1 The Supplier shall supply Products ordered by the Customer from time to time in accordance with these Terms and Conditions.
3.2 Each order placed by the Customer shall be deemed to be a separate offer to purchase Products under these Terms and Conditions which the Supplier shall be free to accept or decline at its absolute discretion.
3.3 Orders may be placed by the Customer in one of three ways:
3.3.1 by completing a Sales Sheet which includes specific details of the Products required by the Customer (and which does not anticipate or require any subsequent call-off or other communication) and which is signed by both the Customer and the Supplier;
3.3.2 by placing an order from time to time by a Permitted Method, where the order is governed by (and is made under) a previously agreed Sales Sheet; or
3.3.3 by placing an order from time to time by a Permitted Method, but where a Sales Sheet has not been completed or agreed.
3.4 An order placed in the manner described in:
3.4.1 clause 3.3.1 shall be deemed accepted by the Supplier on execution by both parties of the Sales Sheet; and
3.4.2 clauses 3.3.2 or 3.3.3 shall be deemed accepted by the Supplier upon the sending by the Supplier of an order acknowledgement and confirmation by a written Permitted Method and which shall confirm the commercial terms of the order (a "Confirmation"),
and in each case a separate contract will be formed upon such acceptance, save that there shall be deemed to be no acceptance where the price of the Product has been incorrectly quoted or stated by the Supplier in a Sales Sheet or Confirmation.
3.5 The Customer shall act in good faith and with accuracy if it forecasts its requirements for Products. Unless otherwise set out in a Sales Sheet, a product forecast shall be binding on the Customer and shall constitute an order for Products in accordance with clause 3.3.
3.6 Each Contract shall consist of these Terms and Conditions and (to the extent applicable) the Sales Sheet and the Confirmation, to the exclusion of any terms and conditions the Customer may seek to impose.
3.7 The Supplier reserves the right to decline to accept or to cancel any order for Products or to impose reasonable conditions prior to accepting any order (including the prior receipt of a letter of credit or cleared funds from the Customer) including where the Supplier considers it reasonably necessary for security or fraud prevention purposes or to comply with any applicable laws or regulations in the country of sale, distribution or use.
3.8 All orders placed by the Customer via the Supplier's website shall be subject to the terms and conditions specified on that website.
3.9 If a price quotation is provided by the Supplier in respect of any Products, the quotation shall remain valid for 30 days from the date it is given (unless otherwise specified by the Supplier) but shall not bind the Supplier until the applicable order is accepted by the Supplier in accordance with clause 3.4.
3.10 Once an order has been accepted by the Supplier it cannot be cancelled, varied or suspended by the Customer without the written agreement of the Supplier.
3.11 In the event of any conflict between the following, the order of precedent between them shall be as follows: (i) the Confirmation, (ii) the Sales Sheet, and (iii) these Terms and Conditions.

4. DESCRIPTIONS, SAMPLES AND LITERATURE
4.1 Unless otherwise confirmed by the Supplier in writing, nothing in any materials produced by or on behalf of the Supplier which includes images and/or descriptions of the Products (including website content, CAD files, technical drawings, product measurements and specifications, catalogue content or any other Product-specific imagery and information) ("Materials") is to be considered a representation of the source of origin, manufacturer or production of Products or any part of them.
4.2 Subject to clause 11.1 all information contained in the Materials are published for the sole purpose of giving the Customer an approximate idea of the Products described in them and will not be relied on by the Customer or form part of the Contract except as otherwise expressly provided in the Sales Sheet and/or the Confirmation.
4.3 Any typographical, clerical or other manifestly obvious error or omission in any quote, price list, Confirmation, label, packaging, invoice or other document or information issued by the Supplier may be corrected by the Supplier, without liability to the Customer, at any time either by correcting any such matter in public by publishing the correction on the Supplier's website or by notifying the Customer in writing and such correction shall be immediately binding upon the Customer.
4.4 Except as otherwise required by law, a Contract shall not be (i) a sale by Sample, even if Samples have been provided to the Customer, unless specified otherwise in the Sales Sheet or otherwise agreed and specified in the Confirmation, or (ii) a sale by description, even if a description has been provided.

5. FITNESS FOR PURPOSE AND SPECIFICATIONS
5.1 The Customer will undertake appropriate tests to ensure that the Products are fit for all of the Customer's purposes. Subject to clause 5.2, the Customer expressly acknowledges that, irrespective of any guidance provided to it by the Supplier, in determining whether the Product will be fit for all its purposes, it is not relying on (i) the Supplier's skill and judgement, or (ii) any Materials which are provided or made accessible by the Supplier to the Customer.
5.2 If the Customer wishes to rely on the Supplier's skill and judgement in relation to a Product being fit for a particular purpose then prior to placing an order the Customer must expressly advise the Supplier in writing of the particular purpose and that it wishes to rely on the Supplier's confirmation of fitness for purpose rather than conduct its own testing. The Supplier shall advise the Customer of any additional charges which will apply if such confirmation is given. The Customer shall only be entitled to rely on the Product being fit for a particular purpose if the Customer has provided all the information which the Supplier would need to undertake the requisite testing and the Supplier has expressly confirmed in the Sales Sheet and/or the Confirmation that the Product can fulfil a particular purpose.
5.3 A Specification in relation to a Product shall only take effect and form part of a Contract where specified in the Sales Sheet and/or the Confirmation (and in each case this may be facilitated by way of a cross-reference to a pre-agreed specification document). The parties may agree a process for producing and agreeing a Specification, which shall be set out in the Sales Sheet. A Specification may include (inter alia) details of the Products measurements, tolerances, regulatory compliance, packaging and compliance with quality standards.

6. PRICE
6.1 The price of Products shall be the price specified in the Sales Sheet or as otherwise agreed and specified in the Confirmation (as applicable). Prices specified in a Sales Sheet will be subject to review and possibly change from time to time in accordance with the mechanism specified in that Sales Sheet.
6.2 The Supplier will use its reasonable endeavours to ensure that prices are accurately specified in any quote and in the Materials.
6.3 The Supplier reserves the right to invoice sums in addition to the agreed price to reflect any increase in the cost to the Supplier of supplying any Products which is due to: (i) any increase in the cost of labour or materials (including any storage costs) as a consequence of Delivery of the Products not being in accordance with clause 8.1 or 8.2 (as applicable), (ii) any variation requested by the Customer to delivery dates, quantities, the Specification or the scope of the Supplier's instructions, (iii) any delay or additional work or materials caused by any erroneous instructions, neglect or default of the Customer, or (iv) any failure of the Customer to provide the Supplier with adequate and timely information, instructions, or specifications. Subject to the foregoing, prices charged will be those prevailing when an order is accepted.
6.4 Unless set out in the Sales Sheet or Confirmation, any reference to the price for Products is in Canadian Dollars and is exclusive of any HST, PST, GST, QST or other taxes or duties and of all costs and charges in relation to non-standard packaging, loading, unloading, carriage and insurance or similar costs, which (if any) shall be paid in addition by the Customer at the time it is due to pay for the Products. Where carriage or other costs to be borne by the Customer are paid by the Supplier, the Supplier shall be entitled to immediately render an invoice in respect of such costs.

7. PAYMENT
7.1 The Supplier shall at its discretion be entitled to invoice the Customer for payment of the price of any Products or any other amounts in advance. The Supplier reserves the right, where the Customer is required to pay for an order in advance, to suspend Delivery of any Products pending receipt of payment.
7.2 Unless otherwise set out in a Sales Sheet or Confirmation, payment of the Supplier's invoice is due by the Customer (without deduction, discount, abatement or set-off) within 30 days of the date of the invoice, notwithstanding that Delivery may not have taken place or that property in the Products has not passed to the Customer. Payment shall be made in the currency stipulated in the Sales Sheet or Confirmation (as applicable). Time for payment of sums due from the Customer shall be of the essence. No payment will be deemed received until received by the Supplier in cash or cleared funds.
7.3 Payment is to be made by the Customer via the payment method stipulated in the Sales Sheet or Confirmation (as applicable).
7.4 If the Customer is permitted to open a credit facility with the Supplier, it must furnish such information and references as may be requested by the Supplier and the Supplier may make a search with a credit reference agency in relation to the Customer. The Supplier reserves the right in its absolute discretion to grant, refuse or discontinue any credit facilities or reduce or suspend any credit facility at any time.
7.5 If any sums are not paid on or before the due date for payment, interest will accrue on the amount unpaid at the rate of six percent per annum above (i) the base rate of the bank specified in the Sales Sheet, or (ii) if no such bank is specified, the annual rate of interest amended from time to time by the Royal Bank of Canada as a reference rate then in effect for determining interest rates on Canadian dollar commercial loans in Canada. Such interest shall accrue on a daily basis from the due date until payment is made in full (both before and after any judgment).
7.6 If the Customer fails to make any payment when due pursuant to a Contract then, without prejudice to any other right or remedy available to the Supplier (including the right to charge interest pursuant to clause 7.5), the Supplier shall be entitled to: (i) deduct outstanding sums from any sums owed by the Supplier to the Customer under the Contract or otherwise, (ii) require the Customer to pay any costs of storage of the Products, (iii) suspend any further deliveries to the Customer under the Contract or any other contract between the parties until paid, (iv) resell any Products not yet delivered to the Customer, and/or (v) retain any sums paid as deposit for the Products.

8. DELIVERY
8.1 Where the Customer's order has been placed in the manner described in clauses 3.3.1 or 3.3.2, subject to anything specified to the contrary in the Sales Sheet or otherwise agreed and specified in the Confirmation, the Contract shall be Ex Works (Incoterms 2010) at the Supplier's premises and Delivery of the Products shall be effected accordingly. Additional details regarding the physical Delivery of the Products (including the date of collection by the Customer) may be agreed between the parties and set out in the Sales Sheet and/or Confirmation.
8.2 Where the Customer's order has been placed in the manner described in clause 3.3.3 (but subject to clause 8.3), Products will be sent to the Customer by a carrier service chosen by the Supplier, acting reasonably. Delivery of the Products to the Customer shall be effected by the Supplier delivering the Products to the carrier or by collection by the carrier. Thereafter, transport of such Products shall be subject to the carrier's conditions which shall be notified to the Customer if the Customer requests, and, subject to clause 10.1, the Supplier shall have no liability for the acts or omissions of the relevant carrier, unless otherwise agreed and specified in the Confirmation. The Supplier may deliver Products earlier than any agreed delivery date.
8.3 Where it is agreed and specified in the Confirmation that Products ordered in the manner described in clause 3.3.3 shall be delivered by a method other than that referred to in clause 8.2 then delivery shall be effected: (i) where the Products are to be collected by the Customer from the Supplier's premises, by the Supplier notifying the Customer that the Products are ready for collection, (ii) where the Products are delivered by the Supplier, by the Supplier delivering the Products to the address nominated by the Customer for delivery, or (iii) where the Products are to be transported by a third party, by collection by or delivery to that third party of the Products.
8.4 The remainder of this clause 8 shall apply to all Contracts regardless of the manner in which the order was placed by the Customer.
8.5 Unless otherwise set out in the Sales Sheet or Confirmation, any periods of time or dates quoted for Delivery of the Products are estimates only. The Supplier will use its reasonable endeavours to deliver the Products by the delivery date set out in the Sales Sheet or Confirmation (as applicable). If the Supplier is unable to meet the delivery date because of an event outside the Supplier's control, the Supplier will contact the Customer with a revised delivery date.
8.6 The Supplier may deliver up to 10 percent more or 10 percent less than the quantity of Products specified in the order and the Customer shall accept such variation in quantity and shall pay the agreed price as adjusted to reflect such variation in quantity. Where more than 10 percent or less than 10 percent of the quantity of Products specified in the order are delivered, the Customer and the Supplier shall discuss the excess supply or short supply (as the case may be) and (a) in the case of an excess supply: (i) if the Customer wishes to keep the additional Products, the Customer shall pay the agreed price as adjusted to reflect excess supply, or (ii) if the Customer does not wish to keep the additional Products, the Customer shall promptly return the additional Products in accordance with the Supplier's directions and at the Supplier's cost, or (b) in the case of a short supply: (i) if the Customer does not wish to be delivered additional Products to make up the order, the Customer shall pay the agreed price as adjusted to reflect short supply, or (ii) if the Customer wishes to take delivery of additional Products to make up the order, the Supplier shall (where available and in supply) promptly deliver such additional Products to the Customer. The quantity of any consignment of Products, as recorded by the Supplier, on dispatch from the Supplier's premises, shall be

conclusive evidence of the quantity received by the Customer on Delivery, unless the Customer can provide conclusive evidence to the contrary.
8.7 The Supplier shall not be responsible for any losses incurred or suffered by the Customer as a result of a failure to deliver the Products or for short Delivery unless the Customer has informed the Supplier in writing within 12 days from the estimated date of Delivery (in relation to a failure to deliver) or on the actual date of Delivery (in relation to a short Delivery). In any event, where for any reason the Supplier is liable to the Customer for any such losses, the Supplier's liability shall be limited to: (i) the amount by which the price in the cheapest available market of similar goods to replace those not delivered exceeds the agreed price of the Products not delivered, or (ii) if there is no such market, an amount equal to the agreed price applicable in respect of the Products not delivered.
8.8 Where the Customer fails to take Delivery of the Products or fails to give the Supplier adequate Delivery instructions in advance of the time stated for Delivery (other than by reason of any cause beyond the Customer's reasonable control or by reason of the Supplier's neglect or default) then the Products shall be deemed to have been delivered at the time stated for Delivery and, without prejudice to any other right or remedy available to the Supplier, the Supplier may: (i) store the Products until actual Delivery and charge the Customer for the reasonable costs (including insurance) of storage, if applicable but without any obligation on the Supplier to procure insurance, or (ii) where the Customer has failed to take Delivery of the Products on or before the seventh day following the intended day for Delivery, sell the Products at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) shall reimburse the Customer if the agreed price has already been paid by the Customer or invoice the Customer for any shortfall below the agreed price if payment has not yet been made.
8.9 Where the Products are to be delivered in instalments, each Delivery shall constitute a separate obligation and neither any failure by the Supplier to deliver nor any claim in respect of any one or more instalments by the Customer shall entitle the Customer to treat the Contract as a whole as repudiated.
8.10 No returned Products from any source will be accepted by Supplier, without written approval, together with shipping instructions, from Supplier. If permission is granted by Supplier, the returned Goods will be subject to a 25 percent re-stock handling charge plus freight cost. Non-standard Products or fabricated items are not returnable in Supplier's sole and unfettered discretion. Unless otherwise agreed by Supplier, Products returned must be in their original, smallest, unopened packaging, or undamaged and in the same condition as when the Products were delivered to Customer.

9. RESTRICTED DELIVERY
9.1 The applicable Sales Sheet may specify that the Supplier does not deliver Products to addresses in certain countries. The Supplier may place an order for Products in those countries, but the order must be for Delivery to an address outside the prohibited countries.

10. RISK AND PROPERTY IN THE PRODUCTS
10.1 Products supplied by the Supplier shall be at the Customer's risk when the Products are unloaded from the Supplier's carrier at the Customer's premise or, where the Products are collected by the Customer, or a third party on behalf of the Customer, from the Supplier's premise (or any other location agreed between the parties), immediately upon being made available for collection. The Customer acknowledges that it is responsible for arranging appropriate insurance for the Products from the point at which it assumes risk.
10.2 Title (legal and beneficial) in all Products supplied shall be retained by the Supplier until the Supplier has received in either cash or cleared funds all sums due in respect of the Products.
10.3 Following risk in the Products passing to the Customer pursuant to clause 10.1, until such time as title in the Products passes to the Customer, the Customer must: (i) hold such Products (on a fiduciary basis for and on behalf of the Supplier) as the Supplier's bailee and act in good faith to protect the Supplier's interests in the Products, (ii) store such Products (at no cost to the Supplier) separately from all other goods of the Customer in such a way that such Products remain identifiable as property of the Supplier and shall not mix them with any other goods, (iii) not pledge or allow any lien, charge, or other interest to arise over the Products or their documents of title, (iv) not destroy or deface any identifying marks on such Products or relevant packaging and maintain such Products in satisfactory condition, and (v) keep such Products insured on the Supplier's behalf and in the event of any claim resulting from loss, theft or damage hold the proceeds of such insurance on trust for the Supplier.
10.4 In the event that the Customer fails to pay the price of the Products by the due date, the Supplier shall be entitled at any time to require the Customer to deliver up the Products to the Supplier prior to title in the Products passing to the Customer. The Customer grants the Supplier and its agents the right at any such time to enter any premises where the Products are stored to inspect or, if the Customer has failed to deliver up possession when requested by the Supplier, to repossess the Products.

11. QUALITY OF PRODUCTS
11.1 The Supplier warrants that on Delivery all Products will be of satisfactory quality and (if applicable) will conform to the Specification.
11.2 The warranty contained in clause 11.1 shall not apply unless:
11.2.1 in respect of defects that are apparent on inspection of the Products, the Customer notifies the Supplier in writing, setting out in reasonable detail the nature of the breach of warranty within 14 days after Delivery;
11.2.2 in relation to latent defects, the Customer notifies the Supplier in writing setting out in reasonable detail the nature of the breach of warranty within 14 days after the defect became apparent or ought to have become apparent to the Customer, and in any event within 6 months of the date of Delivery;
11.2.3 after receiving such notice of the defect, the Supplier is given reasonable opportunity to inspect the Products and, at the Supplier's request (acting reasonably), the Products are returned to the Supplier's place of business (at the Customer's risk and cost) for the purpose of inspection;
11.2.4 the total price for the Products has been paid by the Customer; and
11.2.5 none of the events listed in clause 11.3 apply.
11.3 The Supplier shall not be liable for any breach of the warranty in clause 11.1 if:
11.3.1 the Customer makes any further use of the Products after giving notice in accordance with clause 11.2;
11.3.2 the defect arises because the Customer failed to follow the Supplier's oral or written instructions as to the storage, commissioning, installation, use and maintenance of the Products or (if there are none) good trade practice regarding the same;
11.3.3 the defect arises as a result of the Supplier following any drawing, design or specific requirement or instructions supplied or approved by the Customer (including any such thing which may constitute (or form part of) the Specification);
11.3.4 the Customer alters or repairs the Products without the written consent of the Supplier;
11.3.5 the Customer makes further use of or resells a Product after the Supplier gives notice of a defect or the Customer fails to comply with the Supplier's reasonable instructions in relation to a Product hold or recall;
11.3.6 the defect arises as a result of reasonable wear and tear, wilful damage, negligence, or abnormal storage or working conditions; or
11.3.7 the Products differ from the Specification as a result of changes made to ensure they comply with applicable statutory or regulatory requirements.
11.4 If the Customer fails to give notice of rejection in accordance with clause 11.2, it shall be deemed to have accepted the Products.
11.5 If the Customer rejects Products under clause 11.2 then the Customer shall be entitled to: (i) require the Supplier to repair or replace the rejected Products, or (ii) require the Supplier to repay the price of the rejected Products in full. Once the Supplier has complied with the Customer's requirement, it shall have no further liability to the Customer in respect of the rejected Products' failure to comply with clause 11.1.
11.6 The terms of the Contract shall apply to any repaired or replacement Products supplied by the Supplier. All Products which have been replaced pursuant to clause 11.5 shall belong the Supplier.
11.7 To the extent permitted by law and subject to clauses 12.5, the requirement to provide the remedy contained in clause 11.5 shall be the sole extent of the Supplier's liability arising out of or in connection with any breach of clause 11.1 or any other claim relating to the quality the Products.
11.8 The Customer shall comply with all reasonable instructions of the Supplier in relation to any Product hold or Product recall campaign organised in respect of any Products or any other corrective action reasonably taken by or on behalf of Supplier in respect of the Products after Delivery to Customer. Unless required by law, the Customer may not undertake any Product recall or withdrawal without the written permission of the Supplier and only then in strict compliance with the Supplier's instructions as to the process of implementing the withdrawal.

12. LIMITATION OF LIABILITY
12.1 For the purposes of this clause 12, a "Claim" means a claim arising out of or in connection with the supply of any Products to the Customer or as a result of breach of a Contract or of any duty of any nature whatsoever by the Supplier or pursuant to any use made by the Customer or resale by the Customer of any Products (or of any product incorporating any of the Products) or as a result of any representation, statement, act or omission including negligence or breach of statutory duty arising under or in connection with a Contract.
12.2 Subject to clause 12.5, the Supplier's aggregate liability (including any liability for the acts or omissions of its employees, agents, sub-contractors or other members of its Group) to the Customer for all Claims shall be limited as follows:
12.2.1 the Supplier's aggregate liability for a Claim in relation to any single item of Product shall be limited to the price payable by the Customer for that item; and
12.2.2 the Supplier's aggregate liability to the Customer for all other Claims brought in any calendar year shall be limited to the total amount paid by the Customer to the Supplier for Products during that calendar year.
12.3 Subject to clause 12.5, the Supplier shall not be liable to the Customer for any (a) indirect losses, (b) economic loss, (c) loss of profits or anticipated profits, (d) loss of anticipated savings, (e) loss of business or of expected future business, (f) damage to reputation or goodwill, or (g) punitive, exemplary, incidental, special, indirect or consequential loss, which in each case arises under or in connection with a Contract.
12.4 Notwithstanding anything herein to the contrary and to the fullest extent permitted by law, all implied warranties including but not limited to, the implied warranties of merchantability, non-infringement, or fitness or suitability for any particular purpose or use, are excluded from a Contract and, subject to clause 12.5, the Supplier will not be liable to the Customer for any loss of any kind whatsoever which arises out of the breach of implied warranties, terms or conditions, or breach of any duty of any kind imposed on the Supplier by operation of law.
12.5 Nothing in these Terms and Conditions shall exclude or limit the Supplier's liability in respect of (i) any death or personal injury caused by its gross negligence, (ii) any fraud or fraudulent misrepresentation, or (iii) any other liability to the extent that it may not be so excluded or limited by law.
12.6 If the Customer becomes aware that any third party has made or appears likely to make any claim against the Customer in respect of the Products (including as to defects in them or rights infringed by them) it shall: (i) promptly notify the Supplier of such claim or circumstance, (ii) promptly take such action as the Supplier may reasonably request to avoid, dispute, defend, mitigate, resist, appeal or compromise such claim or circumstance including to allow the Supplier to take full control of any proceedings or negotiations in connection with the claim, and (iii) not settle or compromise, make any admissions, nor agree any matter in the conduct of any dispute, without the prior written approval of the Supplier.
12.7 The Customer acknowledges that the limitations of liability set out in these Terms and Conditions are reasonable and reflect the commercial intentions of the parties in the context of the anticipated earnings of the Supplier under a Contract and the ability of the Customer to protect itself through insurance.

13. EVENTS OUTSIDE THE SUPPLIER'S CONTROL
13.1 The Supplier will not be in breach of the terms of a Contract for any delay in performing, or failure to perform, its obligations under the Contract if that failure or delay was due to any cause or circumstance beyond the Supplier's reasonable control, which shall, without limiting the generality of the term, include war or other action of military forces, terrorism, riot, civil commotion, sabotage, vandalism, accident, break down or damage to machinery or equipment, fire, flood, acts of God, strike, lock-out or other industrial disputes or shortage of materials at the market rates existing when the Contract is made, legislative or administrative interference (including, for example, Sanctions, embargos and Export Controls) or was due to any failure, neglect or delay on the part of the Customer or its agents or representatives.
13.2 The Supplier reserves the right to defer the date of Delivery or to terminate the Contract or reduce the volume of the Products ordered by the Customer (with an appropriate reduction in the price payable by the Customer) if it is prevented from or delayed in the carrying on of its business due to an event referred to in clause 13.1 occurring, and where the event in question continues for a continuous period in excess of 30 days either party shall be entitled to give notice in writing to the other to terminate the Contract with no liability due to or by either party.

14. TERMINATION
14.1 Without affecting any other rights and remedies, the Supplier may immediately terminate a Contract if: (i) the Customer fails to pay any sum due under the Contract by the due date for payment and remains in default not less than 14 days after being notified in writing by the Supplier to make such payment, (ii) the Customer materially breaches any term of the Contract, (iii) the Customer makes any composition or voluntary arrangement with its creditors or any step, application, order, proceeding or appointment is made or taken by or in respect of the Customer (including the making of an "application" or the giving of any notice) by the Customer or any other person for a distress, execution, winding up, dissolution, or to appoint an administrator of the Customer or (being an individual or firm) becomes bankrupt or (being a company) goes into liquidation (otherwise than for the purposes of a solvent amalgamation or reconstruction), (iv) an encumbrance takes possession, or a receiver (administrative or otherwise) is appointed, of any of the property or assets of the Customer, or the Customer ceases, or threatens to cease, to carry on business, or (v) the Supplier possesses bona fide and justifiable reason to believe that any of the events specified in (iii) or (iv) above is likely to occur and notifies the Customer accordingly.
14.2 Where the Supplier terminates the Contract in accordance with clause 14.1, without prejudice to clauses 10.3 or 10.4 or to any other right or remedy available to the Supplier: (i) the Supplier shall be entitled to terminate any other contract or suspend any further deliveries under any other contract between the parties, (ii) where the Products have been delivered, but not paid for, the Customer's right to possession shall terminate and the Supplier may recover the Products and dispose or use any of the Products as it wishes, and (iii) the price for the Products shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.
14.3 Termination of the Contract, for whatever reason, shall not affect any of its provisions which are expressed or are intended to continue to have effect after it has come to an end.

15. INDEMNITY
15.1 Without prejudice to the Supplier's other rights and remedies and to the fullest extent permitted by law, the Customer shall indemnify and keep indemnified the Supplier, its Group and its employees and agents on demand in full against any loss, liability, damage, costs, claims and expenses (including but not limited to legal fees, expert's fees and expenses of litigation) incurred or suffered as a result of: (i) any claim brought by any third party in respect of losses, injury or damage caused by any Products which, following Delivery, have been subjected to any use other than the authorised use for the Products (being the use for which the Products are commonly supplied) or modified or repaired by a person other than the Supplier, (ii) any allegation or claim made against the Supplier by a third party in relation to the actual or purported infringement of that third party's Intellectual Property Rights due to the incorporation into a Product design of any requirements, designs, specifications or other materials (including third party components) stipulated or provided by the Customer, (iii) the negligence of the Customer, and (iv) the breach by the Customer of any of the terms and conditions of this Contract.

16. INTELLECTUAL PROPERTY RIGHTS
16.1 Save where otherwise agreed in a Sales Sheet and/or Confirmation, the Supplier and/or the Supplier's licensors shall own all Intellectual Property Rights in the Products, Catalogue and any Materials.
16.2 The Customer is not granted any rights or licence in respect of the Products, other than the right to use or resell the Products in the Customer's ordinary course of business and otherwise in accordance with the terms and conditions of the Contract.
16.3 The Supplier grants to the Customer a limited, non-exclusive, non-transferable licence, without the right to sublicense, to access and view and (unless shown as not permitted) download and print the Materials in each case solely for the Customer's personal purposes.
16.4 The Customer shall not use, copy, adapt, transmit, distribute, modify, publish, reverse engineer, create derivative works based upon, distribute, licence, sell, transfer, publically perform, broadcast, communicate to the public or otherwise exploit the Materials except as expressly permitted in these Terms and Conditions or otherwise without the Supplier's prior written consent.

17. EXPORT CONTROLS AND SANCTIONS
17.1 The Customer warrants and represents that neither it, nor any of its Group, nor any directors, officers or employees of any of its Group: (i) is a Restricted Party or is engaging in or has engaged in any transaction or conduct that could result in it becoming a Restricted Party, (ii) has engaged or is engaging, directly or indirectly, in any trade, business or other activities with, for the benefit of, or on behalf of, any Restricted Party, (iii) has violated or is violating applicable laws, statutes, regulations and codes relating to Export Controls or Sanctions.
17.2 The Customer acknowledges that some of the Products, their components and technologies may be subject to Export Controls and Sanctions. The Customer shall: (i) comply with Export Controls and Sanctions applicable to both the Supplier and the Customer, (ii) not export, re-export, transfer or trade, directly or indirectly, with or to any Restricted Party nor any person or entity incorporated or located in any country subject to Sanctions, (iii) obtain at its cost any licence, permit, notification or authorisation required to sell, export, re-export, transfer or import the Products, their components and technologies, and (iv) ensure that the end-use of the Products will not breach any Export Controls or Sanctions, including weapons of mass destruction and military end-use controls.

18. GENERAL
18.1 The Customer shall at all times: (i) respond promptly to any request for guidance or instruction which is reasonably required by the Supplier to enable it to perform its obligations under a Contract; (ii) co-operate and liaise with the Supplier as necessary or desirable for the performance of a Contract, and (iii) promptly provide the Supplier with all documents and information in the Customer's possession or control which the Supplier reasonably requires in order to comply with its internal and Group policies and with all applicable laws and regulatory requirements (including all documents and information associated with know your customer checks).
18.2 The Contract contains the entire agreement and understanding of the parties and supersedes all prior agreements, understandings or arrangements (both oral and written) in respect of the Products. The Customer acknowledges that it is entering into the Contract without reliance on any undertaking, warranty, or representation given by or on behalf of the Supplier, other than as expressly contained in the Contract (or any document expressly incorporated into the Contract).
18.3 The parties acknowledge that in performing their obligations hereunder, each party is acting as an independent contractor. Nothing in this Contract shall be construed to create an employment, partnership, joint venture, franchise or other similar arrangement between the parties. Neither party has the authority to enter into any agreement, or make any warranty or representation on behalf of the other party, except where and to the extent specifically authorized to do so in writing. To the extent that either party utilizes its employees for the performance of its duties pursuant to this Contract, that party shall be solely responsible for the payment of salaries and wages to such employees and matters relating thereto (including the withholding and/or payment of all federal, state and local income and other payroll taxes), workers compensation, disability benefits, and all such other legal requirements of like nature applicable to such employees.
18.4 The Customer shall not transfer, assign, sub-contract or deal in any other similar manner any of its rights or obligations under the Contract or purport to do any of the same.
18.5 Any notice shall be in writing and addressed to the other party at, in the case of the Supplier, the address or email address specified in the Sales Sheet and/or Confirmation (as applicable) and in the case of the Customer at the address or email address specified in the Sales Sheet or (if that is not applicable) at its registered address or an email address it may have used to place an order for Products with the Supplier. Hand delivered notices shall take effect immediately; postal notices, two Business Days after posting by first class post (five Business Days if sent by airmail post); and notice sent by email, at the date and time the email is sent (unless an out-of-office message is received by the sending party, in which case notice will not have been validly served).
18.6 The invalidity, illegality or unenforceability of any provision of these Terms and Conditions shall not affect the other provisions and the Contract shall be given effect as if the invalid, illegal or unenforceable provision had been deleted.
18.7 Where the Contract is entered into in the manner described in clause 3.3.1, the Sales Sheet may be executed in any number of counterparts and by the parties on separate counterparts, but shall not be effective until each party has executed at least one counterpart. Each counterpart, when executed, shall be an original, but all counterparts shall together constitute one and the same instrument.
18.8 No variation of the Contract shall be effective unless it is made in writing, refers specifically to the Contract and is signed by both of the parties.
18.9 No waiver of any term, provision or condition of the Contract shall be effective, except where it is clearly made in writing and signed by the waiving party. No waiver of any particular breach of the Contract shall be held to be a waiver of any other or subsequent breach.
18.10 No omission or delay on the part of any party in exercising any right, power or privilege under the Contract shall operate as a waiver by it or of any right to exercise it in future or of any other of its rights under the Contract.
18.11 The rights and remedies arising under, or in connection with, the Contract are cumulative and, except where otherwise expressly provided in the Contract do not exclude rights and remedies provided by law or otherwise.
18.12 This Contract shall be construed and enforced in accordance with, and the rights of the parties shall be governed by, the laws of the Province of Ontario and the federal laws of Canada applicable therein (not including the choice of law rules thereof). The United Nations Convention on the International Sale of Goods shall not apply to the Contract. To the extent relevant pursuant to clause 8.1 the international rules for the interpretation of trade terms prepared by the International Chamber of Commerce (Incoterms) shall apply (unless agreed otherwise) but where they conflict with the Contract, the Contract shall prevail.
18.13 Subject to clause 18.14, any and all disputes, complaints, controversies, claims and grievances arising under, out of, in connection with, or in any manner related to this Contract or the relationship of parties hereunder shall be resolved by arbitration. Such arbitration shall be conducted by a single arbitrator. The arbitrator shall be appointed by agreement between the parties or, in default of such agreement, such arbitrator shall be appointed by a Judge of the Superior Court of Justice sitting in the City of Toronto, upon the application of any of the parties and such judge shall be entitled to act as such arbitrator, if he or she so desires. Unless otherwise agreed to by the parties, the arbitration shall be held in the City of Toronto. The procedure to be followed is shall be agreed to by the parties or, in default of such agreement, determined by the arbitrator. The arbitration shall proceed in accordance with the provisions of the Arbitration Act, 1991 (Ontario). The arbitrator shall have the power to proceed with the arbitration and to deliver his or her award notwithstanding the default by any party in respect of any procedural order made by the arbitrator. The obligation to arbitrate shall extend to any affiliate, subsidiary, officer, employee, shareholder, principal, agent, trustee in bankruptcy or guarantor of a party making or defending any claim hereunder. Any decision and award of the arbitrator shall be final, binding and conclusive upon all of the parties hereto and said decision and award may be entered as a final judgment in any court of competent jurisdiction. Notwithstanding the foregoing, neither party shall institute an arbitration, or any other proceeding to resolve such disputes between the parties before that party has sought to resolve disputes through direct negotiation with the other party. If disputes are not resolved within three (3) weeks after a demand for direct negotiation, the parties shall attempt to resolve disputes through mediation conducted in the City of Toronto. If the parties do not agree on a mediator within ten (10) days, either party may request the ADR Institute of Ontario to appoint a mediator who shall be a barrister and solicitor who has substantial experience in commercial law issues. If the mediator is unable to facilitate a settlement of disputes within forty-five (45) days, the mediator shall issue a written statement to the parties to that effect and the aggrieved party may then seek relief through arbitration as provided above. The fees and expenses of the mediator shall be split and paid equally by each of the parties. In the event of any arbitration between the parties hereto involving this Contract or the respective rights of the parties hereunder, the party who does not prevail in such arbitration shall pay all the prevailing party's reasonable legal' and experts' fees, costs and expenses incurred by the prevailing party in resolving said matter. As used herein the term 'prevailing party' shall include, but not be limited to, a party who obtains legal counsel or brings an action against the other by reason of the other's breach or default and obtains substantially the relief sought whether by compromise, settlement, or judgment. Each party hereby consents to a single, consolidated arbitration proceeding of multiple claims, or claims involving two (2) or more parties. Either party may apply to any court of competent jurisdiction for injunctive relief or other interim measures as provided for elsewhere in this Contract, in aid of the arbitration proceedings, or to enforce the arbitration award, but not otherwise. Any such application to a court shall not be deemed incompatible or a waiver of this provision. The arbitrator shall be required to make written findings of fact and conclusions of law to support its award. Except as may be required by law, neither a party nor an arbitrator(s) may disclose the existence, content, or results of any arbitration hereunder without the prior written consent of both parties.
18.14 Nothing in this clause 18 shall limit the right of the Supplier to take proceedings against the Customer in any other court of competent jurisdiction, nor shall the taking of proceedings in any one or more jurisdiction preclude the Supplier from taking proceedings in any other jurisdiction, whether concurrently or not, to the extent permitted by the law of such other jurisdiction.

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