

HOSE PROTECTION, BUNDLING & SECURING





SPIRAL WRAP HOSE PROTECTION..... 110



SLEEVE HOSE PROTECTION 111 - 112



POINT OF CONTACT PROTECTORS 113



HEAT & FLAME HOSE PROTECTION114 - 115



HOSE TIES & CLAMPS115 - 117



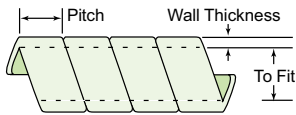
HOSE CINCH STRAPS..... 117

HOSE PROTECTION, BUNDLING & SECURING

SPIRAL WRAP HOSE PROTECTION

SGX Series

TECTORGUARD® Heavy & Medium Duty Hose Guards



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

$.93" / .75" = 1.24 \times 25 = 31 \text{ Feet Required}$

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

SGX FRAS Series

SPIRALGUARD® Flame Retardant Antistatic Series



SPIRALGUARD®

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



Mining Safety Approved Sleeves

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

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

POINT OF CONTACT HOSE PROTECTION



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		Classification	Bulk Pack Qty.
in	mm	in	mm	in	mm	lbs	kgs		
11-7/8	300	0.189	4.8	3.350	85	50	222	Standard	100

CLAMP IT//SECURE IT

THOUSANDS of clamping solutions in stock & ready to ship!
See pages 115 - 117 and call or go online to order FREE SAMPLES.

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

HEAT HOSE PROTECTION & HOSE CLAMPS



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

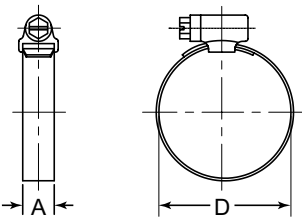
Item No.	ID		Max. Bundle Ø		Roll Length		Pack Qty.
	in	mm	in	mm	ft	m	
900404	0.393	10	0.433	11	100	30.5	1
900405	0.629	16	0.669	17	100	30.5	1
900406	0.787	20	0.826	21	100	30.5	1
900407	0.984	25	1.023	26	100	30.5	1
900408	1.181	30	1.220	31	100	30.5	1



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



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HOSE TIES AND CLAMPS

Smooth ID Punching Ties



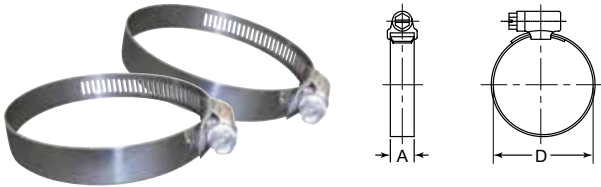
- Specifications:
- Material: 304 Stainless Steel

- 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

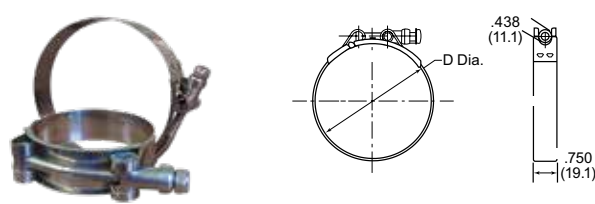
WDHC Series
Worm Drive or Worm Gear Hose Clamp

- 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



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		A in	Bulk Pack Qty.
Carbon Steel	Stainless Steel		Min in	Max 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

Item No.	SAE #	Ø D		Bulk Pack Qty.
		Min in	Max in	
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

