Master Catalog



2023

Alpha Wire

www.alphawire.com

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The Right Expertise

Alpha Wire gives you choices so you can find the exact products for your application. We offer the brands respected in the industry—like the 100% recyclable EcoGen Cable, the high performance of Xtra-Guard Cable, the broad offering of industrial Ethernet cable, the high temperature-resistance ThermoThin Hook-Up Wire, or the exceptional sealing and protection of FIT Heat-Shrink Tubing. We have a wide range of wire, cable, tubing, and accessories that make any application perform to specification.

EcoGen® High-Performance Cable



Alpha's EcoGen family of wire and cable combines better performance with minimal environmental impact. EcoGen features:

- Zero halogen
- Temperature extremes to -50°C
- 91% lower outgassing and up to 47% smaller and 65% lighter cables compared to PVC

Pro-Met® VDE Flex Control Cable



Pro-Met® VDE Cable is a line of flexible industrial cable impervious to oils and resistant to UV damage.

- 0.5 mm^2 - 25 mm^2
- 50 m, 100 m, 300 m package
- VDE compliance
- Premium industrial-grade PVC insulation and jacket
- Oil, UV and chemical resistance



Customs and Specials

Our capabilities go well beyond ou
find what you need, visit our Cable
to discuss your needs for:

- *Custom designs*
- *Specials*
- *Unique packaging requirements*
- *Legacy products*

www.alphawire.com

Xtra-Guard® High-Performance Cable



Known for premium performance and system reliability, Xtra-Guard Cable is available in several performance grades to give you the best match between cost and performance.

- XG-1: high performance
- XG-2: abrasion resistant
- XG-3: direct burial
- XG-4: advanced temperature and chemical performance
- XG-5: maximum temperature and chemical performance
- XG Flex: flexing/flexible/TPE

Industrial™ Series, C & C and Industrial Cable



Get control of any application with a wide range of cable configurations and ratings for applications from communication cabinets to the factory floor.

- Industrial cable
  - M series
  - P series
  - F series
  - S & SF series
- Industrial Ethernet cable

AlphaEssentials® High Performance Cable



Finding the right wire and cable for your application is now easier than ever with Alpha Essentials - your one-stop source for the widest range of industry-standard cable.

- Communication and control
- Tray cable
- Coax cable
- Cords/cordsets
- Data and bus cable
- Flat cable
- High/low-temperature cable
- CMP plenum cable

Cable Glands



Alpha Wire's cable glands are a great solution for providing premium cable strain relief and protection against environmental f factors, such as flames and dust for a wide range of industries, including renewable energy, industrial automation, and electrical equipment.

- NPT, Metric or PG
- Polyamide and brass
- IP68 rated

FIT® Heat-Shrink Tubing



FIT Heat-Shrink Tubing seals and protects wire and cables from environmental and mechanical abuse—with a wide variety of shrink ratios and materials.

- 2:1 to 6:1 shrink ratios
- Irradiated or cross-linked materials
- High temperature
- Chemical- and solvent-resistant

FIT® Wire Management



Organize, shield, and route cable assemblies and harnesses with our complete line of management products.

- Sleeving
- Braid
- Lacing tape
- EMI tape
- Heat guns

ur cataloged parts. If you don't
e Design Center or give us a call

Hook-Up Wire



Hook-Up Cire for any application with the range of materials to meet any environmental, mechanical or electrical needs.

- PVC
- H05V-K & H07V-K
- PFA
- Silicone
- PTFE (Teflon®)
- PVDF (Kynar®)
- ETFE (Tefzel®)
- XLPE
- XL-PVC
- Special/high temperature
- Bus bar
- Ribbon

EcoWire®



Innovative EcoWire combines increased performance with a minimal environmental impact.

- Zero halogen
- 100% recyclable
- mPPE insulation
- Temperatures extremes to -40°C
- Up to 45% smaller in diameter and 40% lighter than PVC

The Right Service



Nobody outperforms Alpha Wire

Everybody talks great service, but, once you deal with Alpha Wire, you'll know what great service really can be. We apply our expertise to creating service that equals our products. Nobody works harder or more diligently to make sure you get the cable you want, when you need it, backed by the service you deserve.

Small put-ups: get what you need



We're geared to ship in small put-ups or large. With Alpha, you don't have to buy more cable than you need because of high minimum order requirements.

Logistics that defy logic

Need cable tomorrow? No problem. We maintain a large inventory and offer same-day shipping. Order today and receive your order tomorrow in many locations. Alpha Wire goes one step further: manufacturing custom cables to meet unique applications—offering specific conductor counts, shielding options, jacket materials, and versatile product designs. Our custom cable orders are often shipped in less than a week, once again giving you products with more convenience and less delay.



Global reach

Encompassing more than 30,000 products and seven product families available worldwide through more than 1,500 Distributor locations, Alpha delivers the industry's widest range and largest inventory of wire, cable, and tubing products.

Application expertise

We understand your applications, from the needs of a machine tool cable to withstand coolants and extreme temperatures to the requirements of a wind turbine where robust reliability eliminates service calls.



We've helped companies successfully deploy applications in the frozen tundra, aboard wind- and water-swept offshore drilling rigs, and in the pristine environment of a semiconductor cleanroom.





Online selection made easy

Our new website makes finding the right cable easier than ever. The site's intuitive navigation helps you quickly find the right cable, along with dimensional, material, and performance specifications.



Your standards are our standards

We rigorously test our cables to prevailing industry standards. Our cables are approved by such major agencies as UL, CSA, CE and VDE.

Make Alpha Wire your first choice for reliable performance

We're all about performance—high-performance products and service without compromise or excuse.



Whether you're building new products or engaged in MRO, there is no better place to start your search than Alpha Wire. And once you have experienced the Alpha difference, we will become the only source you need.

Learn more

To find out more about why Alpha has the right product for your application, give us a call or visit

www.alphawire.com

Xtra-Guard Cable®



Medical Equipment

Industrial Automation

Semi-conductor Equipment

Aerospace and Defense

Energy and Solar

Consumer Electronics

Xtra-Guard® Performance Cable

Ultimate Performance in Extreme Environments

Performance and reliability

Xtra-Guard means peace of mind. Hazard-matched to survive in the most demanding operating conditions, Xtra-Guard Cable is the longest-lasting, highest-performing cable available. Field-proven application performance, year after year, has made Xtra-Guard Cable the first choice of engineers for more than three decades.

Superior by design

Xtra-Guard Cable is designed to meet your needs. Its round construction makes it easier to install, seal and route. With nearly 5,000 standard constructions and the industry's broadest range of gauges, conductor counts, shielding options and jacket color choices, Xtra-Guard cable sets the global standard for reliable performance.

Key features

- 2 to 80 conductors, configured as single conductors or pairs
- 28 to 14 AWG
- Stranded conductors for flexibility
- Choice of shielding options:
  - Unshielded
  - Aluminum/polyester for moderate EMC performance
  - Supra-Shield® foil + braid for exceptional EMC performance

XTRA-GUARD® 1	High performance in a tough PVC cable
XTRA-GUARD® 2	Oil and abrasion resistant
XTRA-GUARD® 3	Direct burial—no conduit needed
XTRA-GUARD® 4	Extreme temperature handles hot, cold, spills
XTRA-GUARD® 5	Maximum chemical and temperature performance
XTRA-GUARD® FLEX	Wide variety of flexing applications

Xtra-Guard	Application							
	High Temp	Low Temp	UV	Oil/Water/ Chemical	Abrasion	Direct Burial	EMI Protection with Supra-Shield	Flex
Xtra-Guard 1	●○○	●○○	●●○	●○○	●○○	NR	●●●	NR
Xtra-Guard 2	●○○	●○○	●●○	●●○	●●●	NR	●●●	NR
Xtra-Guard 3	●○○	●○○	●●○	●●○	●○○	●●●	●●●	NR
Xtra-Guard 4	●●○	●●○	●●○	●●○	●○○	●○○	●●●	NR
Xtra-Guard 5	●●●	●●●	●●●	●●●	●●○	●●○	●●●	NR
Xtra-Guard Flex	●○○	●○○	●○○	●◔○	●◔○	NR	●●●	●●●

●○○ = Good; ●●○ = Very Good; ●●● = Excellent; NR = Not Recommended

Xtra-Guard® 1
High Performance





Features

- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- Premium-grade PVC insulation and jacket for easier cable routing in small spaces
- 300 V and 600 V
- Unshielded, foil shielded, or Supra-Shield® foil + braid
- 105°C temperature rating
- UL VW-1, UL 1685, and CSA FT-4 flammability rating
- Nylon ripcord for easy jacket stripping

Applications

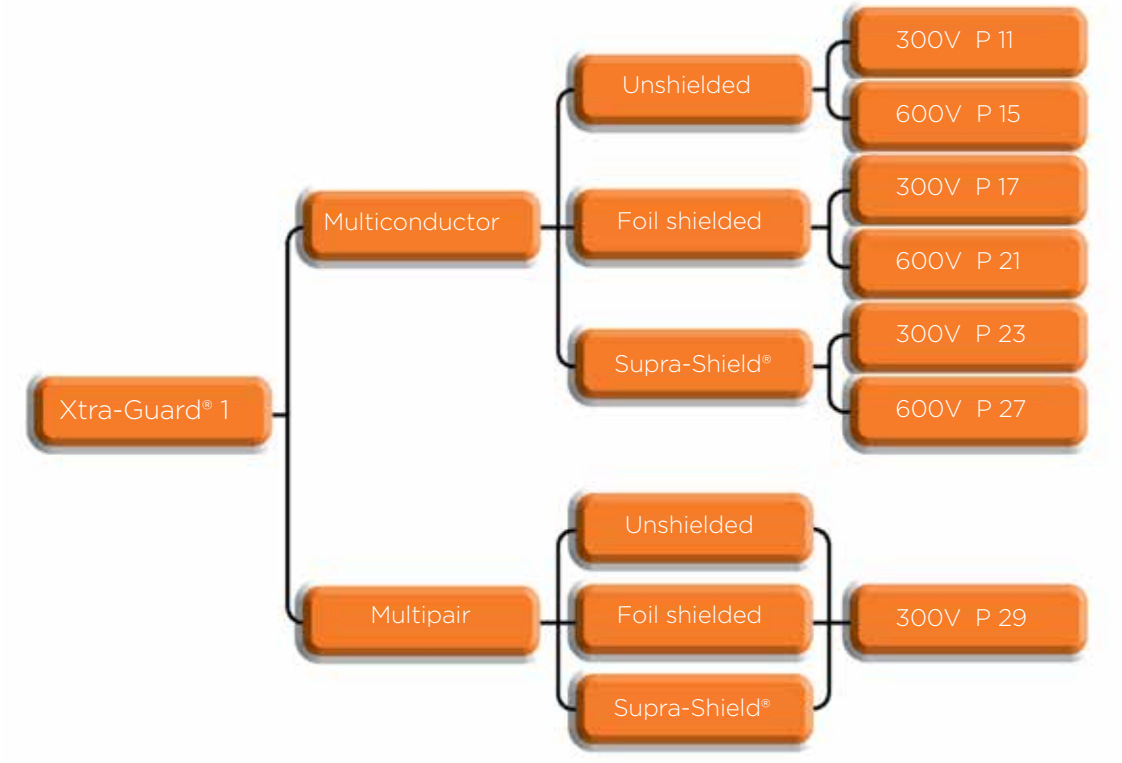
- EIA RS-232 interface
- High-technology applications in controlled environments
- Medical electronics
- Point-of-sale equipment
- Computer peripherals
- Industrial process controls

FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

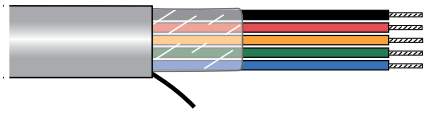
SLATE	BEIGE	WHITE
RED	BLACK	BLUE
GREEN	YELLOW	ORANGE

Xtra-Guard Cables are available in a range of long-lasting colors for fast, easy identification; for safety reasons; and matching the color of your system.



Xtra-Guard® 1

High Performance
300 V Unshielded, Multiconductor



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5920	2	0.138	3.51	0.032	0.81
5921	3	0.144	3.66	0.032	0.81
5922	4	0.153	3.89	0.032	0.81
5923	6	0.174	4.42	0.032	0.81
5924	7	0.174	4.42	0.032	0.81
5925	8	0.185	4.70	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5666	2	0.146	3.71	0.032	0.81
5667	3	0.152	3.86	0.032	0.81
5668	4	0.162	4.11	0.032	0.81
5669	6	0.186	4.72	0.032	0.81
5670	7	0.186	4.72	0.032	0.81
5671	8	0.198	5.03	0.032	0.81
5672	10	0.224	5.69	0.032	0.81
5673	15	0.248	6.30	0.032	0.81

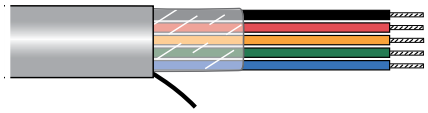
24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5012C	2	0.156	3.96	0.032	0.81
5013C	3	0.163	4.14	0.032	0.81
5014C	4	0.175	4.45	0.032	0.81
5016C	6	0.201	5.11	0.032	0.81
5018C	8	0.215	5.46	0.032	0.81
5020C	10	0.244	6.20	0.032	0.81
5020/15C	15	0.271	6.88	0.032	0.81
5020/20C	20	0.300	7.62	0.032	0.81
5020/25C	25	0.332	8.43	0.032	0.81
5020/30C	30	0.350	8.89	0.032	0.81
5020/40C	40	0.390	9.91	0.032	0.81
5020/50C	50	0.429	10.90	0.032	0.81

Xtra-Guard® 1

High Performance
300 V Unshielded, Multiconductor



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5002C	2	0.168	4.27	0.032	0.81
5003C	3	0.176	4.47	0.032	0.81
5004C	4	0.189	4.80	0.032	0.81
5006C	6	0.219	5.56	0.032	0.81
5008C	8	0.235	5.97	0.032	0.81
5010C	10	0.268	6.81	0.032	0.81
5010/15C	15	0.299	7.59	0.032	0.81
5010/20C	20	0.331	8.41	0.032	0.81
5010/25C	25	0.368	9.35	0.032	0.81
5010/30C	30	0.389	9.88	0.032	0.81
5010/40C	40	0.434	11.02	0.032	0.81
5010/50C	50	0.478	12.14	0.032	0.81
5010/60C	60	0.518	13.16	0.032	0.81

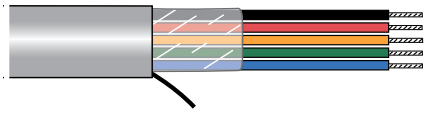
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5052C	2	0.208	5.28	0.032	0.81
5053C	3	0.219	5.56	0.032	0.81
5054C	4	0.238	6.05	0.032	0.81
5056C	6	0.280	7.11	0.032	0.81
5058C	8	0.302	7.67	0.032	0.81
5060C	10	0.348	8.84	0.032	0.81
5060/15C	15	0.391	9.93	0.032	0.81
5060/20C	20	0.437	11.10	0.032	0.81
5060/25C	25	0.488	12.40	0.032	0.81
5060/30C	30	0.517	13.13	0.032	0.81
5060/40C	40	0.622	15.80	0.053	1.35
5060/50C	50	0.684	17.37	0.053	1.35

Xtra-Guard® 1

High Performance
300 V Unshielded, Multiconductor



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5062/1C*	2	0.226	5.74	0.032	0.81
5062C	2	0.226	5.74	0.032	0.81
5063/1C*	3	0.238	6.05	0.032	0.81
5063C	3	0.238	6.05	0.032	0.81
5064C	4	0.259	6.58	0.032	0.81
5066C	6	0.307	7.80	0.032	0.81
5068C	8	0.332	8.43	0.032	0.81
5070C	10	0.384	9.75	0.032	0.81
5070/15C	15	0.433	11.00	0.032	0.81
5070/20C	20	0.484	12.29	0.032	0.81
5070/25C	25	0.542	13.77	0.032	0.81
5070/30C	30	0.617	15.67	0.053	1.35
5070/40C	40	0.688	17.48	0.053	1.35
5070/50C	50	0.758	19.25	0.053	1.35
5070/60C	60	0.881	22.38	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

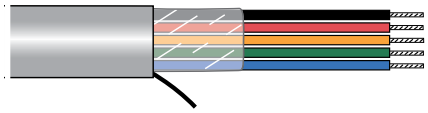
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5072/1C*	2	0.250	6.35	0.032	0.81
5072C	2	0.250	6.35	0.032	0.81
5073/1C*	3	0.264	6.71	0.032	0.81
5073C	3	0.264	6.71	0.032	0.81
5074C	4	0.288	7.32	0.032	0.81
5076C	6	0.343	8.71	0.032	0.81
5078C	8	0.372	9.45	0.032	0.81
5080C	10	0.432	10.97	0.032	0.81
5080/15C	15	0.488	12.40	0.032	0.81
5080/20C	20	0.547	13.89	0.053	0.81
5080/25C	25	0.656	16.66	0.053	0.81
5080/30C	30	0.694	17.63	0.053	0.81
5080/40C	40	0.775	19.69	0.083	2.11
5080/50C	50	0.917	23.29	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

Xtra-Guard® 1

High Performance
300 V Unshielded, Multiconductor



UL CM
UL AWM 2343 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart E (page 503)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5201C	7	0.263	6.68	0.063	1.60
5202C	12	0.313	7.95	0.063	1.60
5203C	15	0.333	8.46	0.063	1.60
5204C	19	0.350	8.89	0.063	1.60
5206C	37	0.438	11.13	0.063	1.60

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5210/2C	2	0.230	5.84	0.063	1.60
5211C	7	0.281	7.14	0.063	1.60
5212C	12	0.338	8.59	0.063	1.60
5213C	15	0.361	9.17	0.063	1.60
5214C	19	0.380	9.65	0.063	1.60
5214/25C	25	0.430	10.92	0.063	1.60
5215C	27	0.438	11.13	0.063	1.60
5216C	37	0.480	12.19	0.063	1.60

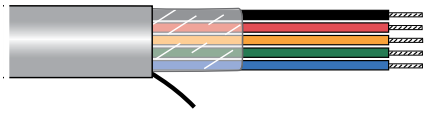
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5220/2C	2	0.246	6.25	0.063	1.60
5220C	5	0.288	7.32	0.063	1.60
5221C	7	0.305	7.75	0.063	1.60
5222C	12	0.371	9.42	0.063	1.60
5223C	15	0.398	10.11	0.063	1.60
5224C	19	0.420	10.67	0.063	1.60
5224/25C	25	0.478	12.14	0.063	1.60
5225C	27	0.487	12.37	0.063	1.60
5226C	37	0.536	13.61	0.063	1.60

Xtra-Guard® 1

High Performance
600 V Unshielded, Multiconductor



UL CM
UL AWM 2501 VW-1
UL MTW
CSA AWM I/II A/B FT4

Operating Temperature

- –30°C to 105°C
- –30°C to 90°C (MTW)

Conductor Color Coding

- Chart E (page 503)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5402	2	0.318	8.08	0.063	1.60
5404	4	0.358	9.09	0.063	1.60
5405	5	0.385	9.78	0.063	1.60
5409	9	0.473	12.01	0.063	1.60
5409/19	19	0.601	15.27	0.063	1.60

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5413	3	0.350	8.89	0.063	1.60
5414	4	0.377	9.58	0.063	1.60
5419	9	0.503	12.78	0.063	1.60
5419/12	12	0.554	14.07	0.063	1.60
5419/15	15	0.601	15.27	0.063	1.60
5419/19	19	0.641	16.28	0.063	1.60
5419/25	25	0.742	18.85	0.063	1.60

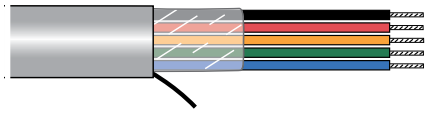
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5422	2	0.352	8.94	0.063	1.60
5423	3	0.369	9.37	0.063	1.60
5424	4	0.399	10.13	0.063	1.60
5425	5	0.432	10.97	0.063	1.60
5427	7	0.466	11.84	0.063	1.60
5429	9	0.535	13.59	0.063	1.60
5429/15	15	0.643	16.33	0.063	1.60
5429/19	19	0.686	17.42	0.063	1.60
5429/25	25	0.796	20.22	0.063	1.60

Xtra-Guard® 1

High Performance
600 V Unshielded, Multiconductor



UL CM
UL AWM 2501 VW-1
UL MTW
CSA AWM I/II A/B FT4

Operating Temperature

- –30°C to 105°C
- –30°C to 90°C (MTW)

Conductor Color Coding

- Chart E (page 503)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5434	4	0.428	10.87	0.063	1.60
5435	5	0.464	11.79	0.063	1.60
5437	7	0.502	12.75	0.063	1.60
5439	9	0.579	14.71	0.063	1.60
5439/12	12	0.641	16.28	0.063	1.60
5439/15	15	0.698	17.73	0.063	1.60
5439/19	19	0.746	18.95	0.083	2.11
5439/25	25	0.908	23.06	0.083	2.11

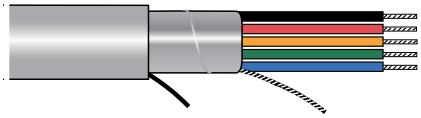
14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5442	2	0.406	10.31	0.063	1.60
5443	3	0.428	10.87	0.063	1.60
5444	4	0.464	11.79	0.063	1.60
5445	5	0.505	12.83	0.063	1.60
5447	7	0.547	13.89	0.063	1.60
5449	9	0.634	16.10	0.063	1.60
5449/12	12	0.703	17.86	0.063	1.60
5449/15	15	0.767	19.48	0.063	1.60
5449/25	25	0.998	25.35	0.083	2.11

Xtra-Guard® 1

High Performance
300 V Foil Shielded, Multiconductor



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5926	2	0.142	3.61	0.032	0.81
5927	3	0.148	3.76	0.032	0.81
5928	4	0.157	3.99	0.032	0.81
5929	6	0.178	4.52	0.032	0.81
5930	7	0.178	4.52	0.032	0.81
5931	8	0.189	4.80	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5674	2	0.150	3.81	0.032	0.81
5675	3	0.156	3.96	0.032	0.81
5676	4	0.166	4.22	0.032	0.81
5677	6	0.190	4.83	0.032	0.81
5678	7	0.190	4.83	0.032	0.81
5679	8	0.202	5.13	0.032	0.81
5680	10	0.228	5.79	0.032	0.81
5681	15	0.252	6.40	0.032	0.81

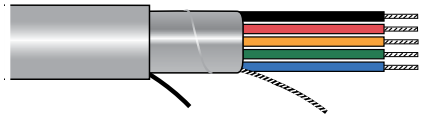
24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5092C	2	0.160	4.06	0.032	0.81
5093C	3	0.167	4.24	0.032	0.81
5094C	4	0.179	4.55	0.032	0.81
5096C	6	0.205	5.21	0.032	0.81
5098C	8	0.219	5.56	0.032	0.81
5100C	10	0.248	6.30	0.032	0.81
5100/15C	15	0.275	6.99	0.032	0.81
5100/20C	20	0.304	7.72	0.032	0.81
5100/25C	25	0.336	8.53	0.032	0.81
5100/30C	30	0.354	8.99	0.032	0.81
5100/40C	40	0.394	10.01	0.032	0.81
5100/50C	50	0.433	11.00	0.032	0.81
5100/60C	60	0.468	11.89	0.032	0.81
5100/70C	70	0.505	12.83	0.032	0.81

Xtra-Guard® 1

High Performance
300 V Foil Shielded, Multiconductor



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5192C	2	0.172	4.37	0.032	0.81
5193C	3	0.180	4.57	0.032	0.81
5194C	4	0.193	4.90	0.032	0.81
5196C	6	0.223	5.66	0.032	0.81
5198C	8	0.239	6.07	0.032	0.81
5199/10C	10	0.272	6.91	0.032	0.81
5199/15C	15	0.303	7.70	0.032	0.81
5199/20C	20	0.335	8.51	0.032	0.81
5199/25C	25	0.372	9.45	0.032	0.81
5199/30C	30	0.393	9.98	0.032	0.81
5199/40C	40	0.438	11.13	0.032	0.81
5199/50C	50	0.482	12.24	0.032	0.81
5199/60C	60	0.522	13.26	0.032	0.81
5199/70C	70	0.606	15.39	0.053	1.35

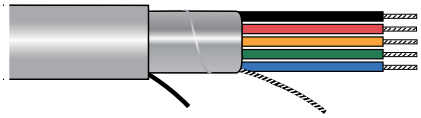
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5462C	2	0.212	5.38	0.032	0.81
5463C	3	0.223	5.66	0.032	0.81
5464C	4	0.242	6.15	0.032	0.81
5466C	6	0.284	7.21	0.032	0.81
5468C	8	0.306	7.77	0.032	0.81
5470C	10	0.352	8.94	0.032	0.81
5470/15C	15	0.395	10.03	0.032	0.81
5470/20C	20	0.441	11.20	0.032	0.81
5470/25C	25	0.492	12.50	0.032	0.81
5470/30C	30	0.521	13.23	0.032	0.81
5470/40C	40	0.626	15.90	0.053	1.35
5470/50C	50	0.688	17.48	0.053	1.35

Xtra-Guard® 1

High Performance
300 V Foil Shielded, Multiconductor



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5382C	2	0.230	5.84	0.032	0.81
5382/1C*	2	0.230	5.84	0.032	0.81
5383C	3	0.242	6.15	0.032	0.81
5383/1C*	3	0.242	6.15	0.032	0.81
5384C	4	0.263	6.68	0.032	0.81
5386C	6	0.311	7.90	0.032	0.81
5388C	8	0.336	8.53	0.032	0.81
5390C	10	0.388	9.86	0.032	0.81
5390/15C	15	0.437	11.10	0.032	0.81
5390/20C	20	0.488	12.40	0.032	0.81
5390/25C	25	0.588	14.94	0.053	1.35
5390/30C	30	0.621	15.77	0.053	1.35
5390/40C	40	0.692	17.58	0.053	1.35
5390/50C	50	0.762	19.35	0.053	1.35
5390/60C	60	0.885	22.48	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

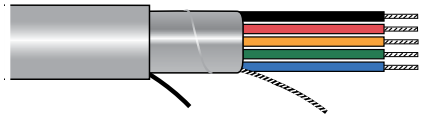
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5362C	2	0.254	6.45	0.032	0.81
5362/1C*	2	0.254	6.45	0.032	0.81
5363C	3	0.268	6.81	0.032	0.81
5363/1C*	3	0.268	6.81	0.032	0.81
5364C	4	0.292	7.42	0.032	0.81
5366C	6	0.347	8.81	0.032	0.81
5368C	8	0.376	9.55	0.032	0.81
5370C	10	0.436	11.07	0.032	0.81
5370/15C	15	0.492	12.50	0.032	0.81
5370/20C	20	0.593	15.06	0.053	1.35
5370/25C	25	0.660	16.76	0.053	1.35
5370/30C	30	0.698	17.73	0.053	1.35
5370/40C	40	0.779	19.79	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

Xtra-Guard® 1

High Performance
300 V Foil Shielded, Multiconductor



UL CM
UL AWM 2343 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart E (page 503)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness:0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5599/3C	3	0.229	5.82	0.063	1.60
5599/5C	5	0.254	6.45	0.063	1.60
5599/7C	7	0.267	6.78	0.063	1.60
5599/12C	12	0.317	8.05	0.063	1.60
5599/15C	15	0.337	8.56	0.063	1.60
5599/19C	19	0.354	8.99	0.063	1.60
5599/27C	27	0.405	10.29	0.063	1.60

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness:0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5580/2C	2	0.234	5.94	0.063	1.60
5580C	5	0.270	6.86	0.063	1.60
5581C	7	0.285	7.24	0.063	1.60
5582C	12	0.342	8.69	0.063	1.60
5583C	15	0.365	9.27	0.063	1.60
5584C	19	0.384	9.75	0.063	1.60
5586C	37	0.484	12.29	0.063	1.60

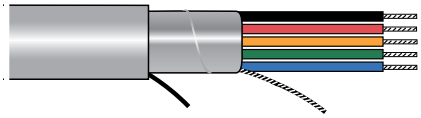
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness:0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5560/2C	2	0.250	6.35	0.063	1.60
5560C	5	0.292	7.42	0.063	1.60
5561C	7	0.309	7.85	0.063	1.60
5562C	12	0.375	9.53	0.063	1.60
5563C	15	0.402	10.21	0.063	1.60
5564C	19	0.424	10.77	0.063	1.60

Xtra-Guard® 1

High Performance
600 V Foil Shielded, Multiconductor



UL AWM 2501 VW-1
CSA AWM I/II A/B FT4
UL MTW

Operating Temperature

- –30°C to 105°C (AWM)
- –30°C to 90°C (MTW)

Conductor Color Coding

- Chart E (page 503)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness:0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5410/2	2	0.322	8.18	0.063	1.60
5410/3	3	0.337	8.56	0.063	1.60
5410/4	4	0.362	9.19	0.063	1.60
5410/5	5	0.389	9.88	0.063	1.60
5410/9	9	0.477	12.12	0.063	1.60
5410/12	12	0.525	13.34	0.063	1.60

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness:0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5420/3	3	0.354	8.99	0.063	1.60
5420/4	4	0.381	9.68	0.063	1.60
5420/5	5	0.411	10.44	0.063	1.60
5420/7	7	0.442	11.23	0.063	1.60
5420/9	9	0.507	12.88	0.063	1.60
5420/12	12	0.558	14.17	0.063	1.60

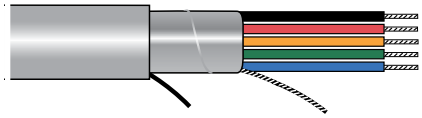
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness:0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5430/2	2	0.356	9.04	0.063	1.60
5430/3	3	0.373	9.47	0.063	1.60
5430/4	4	0.403	10.24	0.063	1.60
5430/5	5	0.436	11.07	0.063	1.60
5430/7	7	0.470	11.94	0.063	1.60
5430/9	9	0.539	13.69	0.063	1.60
5430/12	12	0.595	15.11	0.063	1.60
5430/15	15	0.647	16.43	0.063	1.60
5430/19	19	0.690	17.53	0.063	1.60
5430/25	25	0.800	20.32	0.063	1.60

Xtra-Guard® 1

High Performance
600 V Foil Shielded, Multiconductor



UL AWM 2501 VW-1
CSA AWM I/II A/B FT4
UL MTW

Operating Temperature

- –30°C to 105°C (AWM)
- –30°C to 90°C (MTW)

Conductor Color Coding

- Chart E (page 503)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness:0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5440/2	2	0.380	9.65	0.063	1.60
5440/3	3	0.399	10.13	0.063	1.60
5440/4	4	0.432	10.97	0.063	1.60
5440/5	5	0.468	11.89	0.063	1.60
5440/7	7	0.506	12.85	0.063	1.60
5440/9	9	0.583	14.81	0.063	1.60
5440/12	12	0.645	16.38	0.063	1.60
5440/15	15	0.702	17.83	0.063	1.60

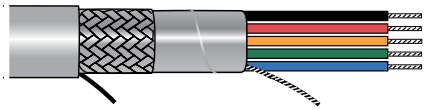
14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness:0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5450/2	2	0.410	10.41	0.063	1.60
5450/3	3	0.432	10.97	0.063	1.60
5450/4	4	0.468	11.89	0.063	1.60
5450/5	5	0.509	12.93	0.063	1.60
5450/7	7	0.551	14.00	0.063	1.60
5450/12	12	0.707	17.96	0.063	1.60

Xtra-Guard® 1

High Performance
300 V Supra-Shield® Foil + Braid, Multiconductor



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness:0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5932	2	0.166	4.22	0.032	0.81
5933	3	0.172	4.37	0.032	0.81
5934	4	0.181	4.60	0.032	0.81
5935	6	0.202	5.13	0.032	0.81
5936	7	0.202	5.13	0.032	0.81
5937	8	0.213	5.41	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness:0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5682	2	0.174	4.42	0.032	0.81
5683	3	0.180	4.57	0.032	0.81
5684	4	0.190	4.83	0.032	0.81
5685	6	0.214	5.44	0.032	0.81
5686	7	0.214	5.44	0.032	0.81
5687	8	0.226	5.74	0.032	0.81
5688	10	0.252	6.40	0.032	0.81
5689	15	0.276	7.01	0.032	0.81

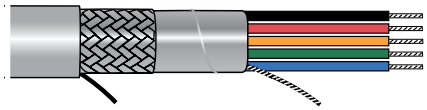
24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness:0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5112C	2	0.184	4.67	0.032	0.81
5113C	3	0.191	4.85	0.032	0.81
5114C	4	0.203	5.16	0.032	0.81
5116C	6	0.229	5.82	0.032	0.81
5118C	8	0.243	6.17	0.032	0.81
5120C	10	0.272	6.91	0.032	0.81
5120/15C	15	0.299	7.59	0.032	0.81
5120/20C	20	0.328	8.33	0.032	0.81
5120/25C	25	0.360	9.14	0.032	0.81
5120/30C	30	0.378	9.60	0.032	0.81
5120/40C	40	0.418	10.62	0.032	0.81
5120/50C	50	0.457	11.61	0.032	0.81

Xtra-Guard® 1

High Performance
300 V Supra-Shield® Foil + Braid, Multiconductor



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness:0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5102C	2	0.196	4.98	0.032	0.81
5103C	3	0.204	5.18	0.032	0.81
5104C	4	0.217	5.51	0.032	0.81
5106C	6	0.247	6.27	0.032	0.81
5108C	8	0.263	6.68	0.032	0.81
5110C	10	0.296	7.52	0.032	0.81
5110/15C	15	0.327	8.31	0.032	0.81
5110/20C	20	0.359	9.12	0.032	0.81
5110/25C	25	0.396	10.06	0.032	0.81
5110/30C	30	0.417	10.59	0.032	0.81
5110/40C	40	0.462	11.73	0.032	0.81
5110/50C	50	0.506	12.85	0.032	0.81
5110/60C	60	0.588	14.94	0.053	1.35
5110/70C	70	0.630	16.00	0.053	1.35
5110/80C	80	0.665	16.89	0.053	1.35

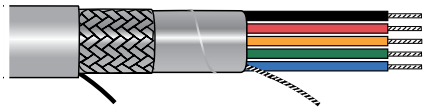
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness:0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5152C	2	0.236	5.99	0.032	0.81
5153C	3	0.247	6.27	0.032	0.81
5154C	4	0.266	6.76	0.032	0.81
5156C	6	0.308	7.82	0.032	0.81
5158C	8	0.330	8.38	0.032	0.81
5160C	10	0.376	9.55	0.032	0.81
5160/15C	15	0.419	10.64	0.032	0.81
5160/20C	20	0.465	11.81	0.032	0.81
5160/25C	25	0.516	13.11	0.032	0.81
5160/30C	30	0.545	13.84	0.032	0.81
5160/40C	40	0.656	16.66	0.053	1.35
5160/50C	50	0.718	18.24	0.053	1.35
5160/60C	60	0.774	19.66	0.053	1.35

Xtra-Guard® 1

High Performance
300 V Supra-Shield® Foil + Braid, Multiconductor



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness:0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5162/1C*	2	0.254	6.45	0.032	0.81
5162C	2	0.254	6.45	0.032	0.81
5163/1C*	3	0.266	6.76	0.032	0.81
5163C	3	0.266	6.76	0.032	0.81
5164C	4	0.287	7.29	0.032	0.81
5166C	6	0.335	8.51	0.032	0.81
5168C	8	0.360	9.14	0.032	0.81
5170C	10	0.412	10.46	0.032	0.81
5170/15C	15	0.461	11.71	0.032	0.81
5170/20C	20	0.512	13.00	0.032	0.81
5170/25C	25	0.612	15.54	0.053	1.35
5170/30C	30	0.651	16.54	0.053	1.35
5170/40C	40	0.722	18.34	0.053	1.35

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

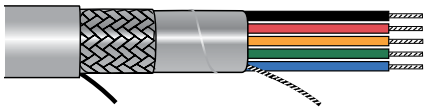
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness:0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5172/1C*	2	0.278	7.06	0.032	0.81
5172C	2	0.278	7.06	0.032	0.81
5173/1C*	3	0.292	7.42	0.032	0.81
5173C	3	0.292	7.42	0.032	0.81
5174C	4	0.316	8.03	0.032	0.81
5176C	6	0.371	9.42	0.032	0.81
5178C	8	0.400	10.16	0.032	0.81
5180C	10	0.460	11.68	0.032	0.81
5180/15C	15	0.516	13.11	0.032	0.81
5180/20C	20	0.617	15.67	0.053	1.35
5180/25C	25	0.690	17.53	0.053	1.35

*Conductors color-coded per international standards: brown, blue, green/yellow.

Xtra-Guard® 1

High Performance
300 V Supra-Shield® Foil + Braid, Multiconductor



UL CM
UL AWM 2343 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart E (page 503)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5300C	5	0.278	7.06	0.063	1.60
5301C	7	0.291	7.39	0.063	1.60
5302C	12	0.341	8.66	0.063	1.60
5303C	15	0.361	9.17	0.063	1.60
5304C	19	0.378	9.60	0.063	1.60
5305C	27	0.429	10.90	0.063	1.60
5306C	37	0.466	11.84	0.063	1.60
5307C	48	0.517	13.13	0.063	1.60

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5310C	5	0.294	7.47	0.063	1.60
5311C	7	0.309	7.85	0.063	1.60
5312C	12	0.366	9.30	0.063	1.60
5313C	15	0.389	9.88	0.063	1.60
5314C	19	0.408	10.36	0.063	1.60
5316C	37	0.508	12.90	0.063	1.60
5318C	60	0.608	15.44	0.063	1.60

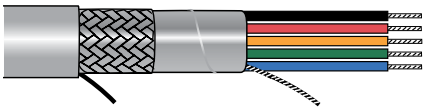
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5320/4C	4	0.299	7.59	0.063	1.60
5320C	5	0.316	8.03	0.063	1.60
5321C	7	0.333	8.46	0.063	1.60
5322C	12	0.399	10.13	0.063	1.60
5323C	15	0.426	10.82	0.063	1.60
5324C	19	0.448	11.38	0.063	1.60
5325C	27	0.515	13.08	0.063	1.60
5326C	37	0.564	14.33	0.063	1.60

Xtra-Guard® 1

High Performance
600 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 2501 VW-1
CSA AWM I/II A/B FT4
UL MTW

Operating Temperature

- –30°C to 105°C (AWM)
- –30°C to 90°C (MTW)

Conductor Color Coding

- Chart E (page 503)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5504	4	0.386	9.80	0.063	1.60
5507	7	0.442	11.23	0.063	1.60
5509/12	12	0.549	13.94	0.063	1.60

20 AWG (0.56 mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5514	4	0.405	10.29	0.063	1.60
5517	7	0.466	11.84	0.063	1.60
5519	9	0.531	13.49	0.063	1.60
5519/12	12	0.582	14.78	0.063	1.60
5519/19	19	0.675	17.15	0.063	1.60

18 AWG (0.81 mm²)

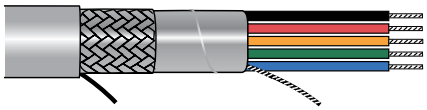
Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5522	2	0.380	9.65	0.063	1.60
5523	3	0.397	10.08	0.063	1.60
5524	4	0.427	10.85	0.063	1.60
5525	5	0.460	11.68	0.063	1.60
5527	7	0.494	12.55	0.063	1.60
5529	9	0.563	14.30	0.063	1.60
5529/12	12	0.619	15.72	0.063	1.60
5529/15	15	0.677	17.20	0.063	1.60
5529/19	19	0.760	19.30	0.083	2.11

RoHS Compliant CA PROP 65

Xtra-Guard® 1

High Performance
600 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 2501 VW-1
CSA AWM I/II A/B FT4
UL MTW

Operating Temperature

- –30°C to 105°C (AWM)
- –30°C to 90°C (MTW)

Conductor Color Coding

- Chart E (page 503)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5532	2	0.404	10.26	0.063	1.60
5533	3	0.423	10.74	0.063	1.60
5534	4	0.456	11.58	0.063	1.60
5535	5	0.492	12.50	0.063	1.60
5537	7	0.530	13.46	0.063	1.60
5539	9	0.607	15.42	0.063	1.60
5539/12	12	0.675	17.15	0.063	1.60
5539/15	15	0.772	19.61	0.063	1.60
5539/19	19	0.820	20.83	0.083	2.11

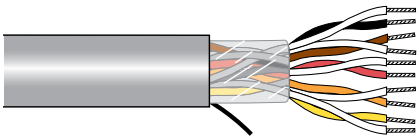
14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5542	2	0.434	11.02	0.063	1.60
5543	3	0.456	11.58	0.063	1.60
5544	4	0.492	12.50	0.063	1.60
5547	7	0.575	14.61	0.063	1.60
5549	9	0.668	16.97	0.063	1.60
5549/12	12	0.777	19.74	0.083	2.11
5549/15	15	0.841	21.36	0.083	2.11

Xtra-Guard® 1

High Performance
300 V Unshielded, Multipair



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5261C	1	0.156	3.96	0.032	0.81
5262C	2	0.212	5.38	0.032	0.81
5263C	3	0.224	5.69	0.032	0.81
5264C	4	0.243	6.17	0.032	0.81
5265C	5	0.264	6.71	0.032	0.81
5266C	6	0.286	7.26	0.032	0.81
5269C	9	0.332	8.43	0.032	0.81
5269/11C	11	0.357	9.07	0.032	0.81
5269/15C	15	0.401	10.19	0.032	0.81
5269/27C	27	0.512	13.00	0.032	0.81
5269/77C	77	0.904	22.96	0.083	0.81

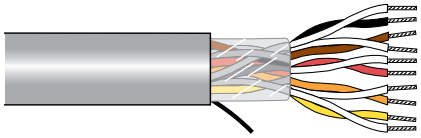
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5021C	1	0.168	4.27	0.032	0.81
5022C	2	0.232	5.89	0.032	0.81
5023C	3	0.245	6.22	0.032	0.81
5024C	4	0.267	6.78	0.032	0.81
5025C	5	0.291	7.39	0.032	0.81
5026C	6	0.316	8.03	0.032	0.81
5029/15C	15	0.447	11.35	0.032	0.81

Xtra-Guard® 1

High Performance
300 V Unshielded, Multipair



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5282C	2	0.298	7.57	0.032	0.81
5283C	3	0.316	8.03	0.032	0.81
5286C	6	0.415	10.54	0.032	0.81
5289C	9	0.487	12.37	0.032	0.81
5289/12C	12	0.545	13.84	0.032	0.81

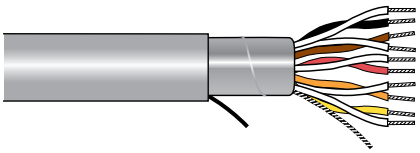
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5032C	2	0.327	8.31	0.032	0.81
5033C	3	0.348	8.84	0.032	0.81
5036C	6	0.460	11.68	0.032	0.81
5039C	9	0.541	13.74	0.053	1.35
5039/12C	12	0.648	16.46	0.053	1.35

Xtra-Guard® 1

High Performance
300 V Foil Shield, Multipair



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.12 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5938	2	0.187	4.75	0.032	0.81
5939	3	0.196	4.98	0.032	0.81
5940	4	0.211	5.36	0.032	0.81
5941	5	0.228	5.79	0.032	0.81
5942	6	0.246	6.25	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5690	2	0.200	5.08	0.032	0.81
5691	3	0.210	5.33	0.032	0.81
5692	4	0.227	5.77	0.032	0.81
5693	5	0.246	6.25	0.032	0.81
5694	6	0.265	6.73	0.032	0.81

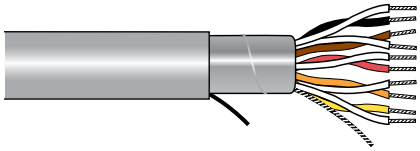
24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5491C	1	0.160	4.06	0.032	0.81
5492C	2	0.216	5.49	0.032	0.81
5493C	3	0.228	5.79	0.032	0.81
5494C	4	0.247	6.27	0.032	0.81
5495C	5	0.268	6.81	0.032	0.81
5496C	6	0.290	7.37	0.032	0.81
5499C	9	0.336	8.53	0.032	0.81
5499/11C	11	0.361	9.17	0.032	0.81
5499/15C	15	0.405	10.29	0.032	0.81
5499/19C	19	0.433	11.00	0.032	0.81
5499/27C	27	0.516	13.11	0.32	0.81

Xtra-Guard® 1

High Performance
300 V Foil Shield, Multipair



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5481C	1	0.172	4.37	0.032	0.81
5482C	2	0.236	5.99	0.032	0.81
5483C	3	0.249	6.32	0.032	0.81
5484C	4	0.271	6.88	0.032	0.81
5485C	5	0.295	7.49	0.032	0.81
5486C	6	0.320	8.13	0.032	0.81
5489C	9	0.372	9.45	0.032	0.81
5489/11C	11	0.400	10.16	0.032	0.81
5489/15C	15	0.451	11.46	0.032	0.81
5489/19C	19	0.483	12.27	0.032	0.81
5489/27C	27	0.619	15.72	0.053	1.35

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5452C	2	0.302	7.67	0.032	0.81
5453C	3	0.320	8.13	0.032	0.81
5456C	6	0.419	10.64	0.032	0.81
5459C	9	0.491	12.47	0.032	0.81
5459/12C	12	0.549	13.94	0.032	0.81
5459/19C	19	0.689	17.50	0.053	1.35

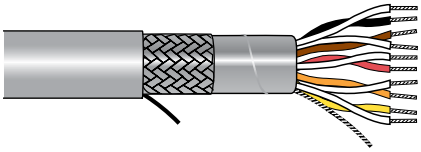
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5373C	3	0.352	8.94	0.032	0.81
5376C	6	0.464	11.79	0.032	0.81

Xtra-Guard® 1

High Performance
300 V Supra-Shield® Foil + Braid, Multipair



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.12 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5943	2	0.211	5.36	0.032	0.81
5944	3	0.220	5.59	0.032	0.81
5945	4	0.235	5.97	0.032	0.81
5946	5	0.252	6.40	0.032	0.81
5947	6	0.270	6.86	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5695	2	0.224	5.69	0.032	0.81
5696	3	0.234	5.94	0.032	0.81
5697	4	0.251	6.38	0.032	0.81
5698	5	0.270	6.86	0.032	0.81
5699	6	0.289	7.34	0.032	0.81

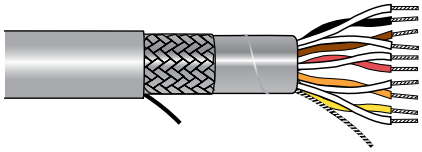
24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5271C	1	0.184	4.67	0.032	0.81
5272C	2	0.240	6.10	0.032	0.81
5273C	3	0.252	6.40	0.032	0.81
5274C	4	0.271	6.88	0.032	0.81
5275C	5	0.292	7.42	0.032	0.81
5276C	6	0.314	7.98	0.032	0.81
5279C	9	0.360	9.14	0.032	0.81
5279/11C	11	0.385	9.78	0.032	0.81
5279/15C	15	0.429	10.90	0.032	0.81
5279/19C	19	0.457	11.61	0.032	0.81
5279/27C	27	0.540	13.72	0.032	0.81
5279/51C	51	0.739	18.77	0.053	1.35

Xtra-Guard® 1

High Performance
300 V Supra-Shield® Foil + Braid, Multipair



UL CM
UL AWM 2464 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5121C	1	0.196	4.98	0.032	0.81
5122C	2	0.260	6.60	0.032	0.81
5123C	3	0.273	6.93	0.032	0.81
5124C	4	0.295	7.49	0.032	0.81
5125C	5	0.319	8.10	0.032	0.81
5126C	6	0.344	8.74	0.032	0.81
5129C	9	0.396	10.06	0.032	0.81
5129/11C	11	0.424	10.77	0.032	0.81
5129/15C	15	0.475	12.07	0.032	0.81
5129/19C	19	0.507	12.88	0.032	0.81
5129/27C	27	0.649	16.48	0.053	1.35

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5292C	2	0.326	8.28	0.032	0.81
5293C	3	0.344	8.74	0.032	0.81
5296C	6	0.443	11.25	0.032	0.81
5299C	9	0.515	13.08	0.032	0.81
5299/19C	19	0.719	18.26	0.053	1.35

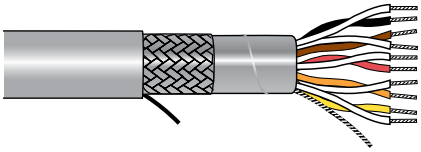
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5132C	2	0.355	9.02	0.032	0.81
5133C	3	0.376	9.55	0.032	0.81
5136C	6	0.488	12.40	0.032	0.81
5139C	9	0.611	15.52	0.053	1.35
5139/27C	27	1.004	25.50	0.083	2.11

Xtra-Guard® 1

High Performance
300 V Supra-Shield® Foil + Braid, Multipair



UL CM
UL AWM 2343 VW-1
CSA CMG FT4

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart B (page 499)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 10, minimums may apply)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5330C	5	0.354	8.99	0.063	1.60
5331C	7	0.376	9.55	0.063	1.60
5332C	12	0.458	11.63	0.063	1.60
5333C	15	0.491	12.47	0.063	1.60
5334C	19	0.519	13.18	0.063	1.60
5335C	27	0.602	15.29	0.063	1.60
5336C	37	0.669	16.99	0.063	1.60

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5340/2C	2	0.322	8.18	0.063	1.60
5340C	5	0.381	9.68	0.063	1.60
5341C	7	0.406	10.31	0.063	1.60
5342C	12	0.499	12.67	0.063	1.60
5344C	19	0.569	14.45	0.063	1.60
5345C	27	0.669	16.99	0.063	1.60
5346C	37	0.738	18.75	0.063	1.60

20 AWG (0.56 mm²)

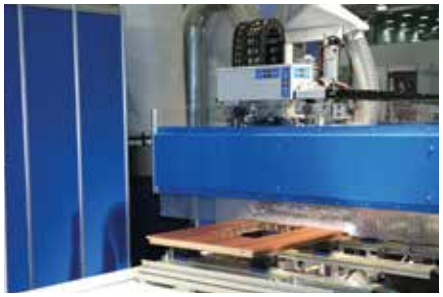
Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5350/4C	4	0.388	9.86	0.063	1.60
5350C	5	0.416	10.57	0.063	1.60
5351C	7	0.446	11.33	0.063	1.60
5351/9C	9	0.505	12.83	0.063	1.60
5353C	15	0.597	15.16	0.063	1.60
5354C	19	0.634	16.10	0.063	1.60
5355C	27	0.749	19.02	0.063	1.60

Xtra-Guard® 2

Oil and Abrasion Resistant





Features

- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- Specially formulated, rugged polyurethane jacket offering three times the tear and abrasion resistance of ordinary PVC
- Resistance to cut-through and physical damage
- 300 V and 600 V
- Unshielded, foil shielded, or Supra-Shield® foil + braid
- Temperature ratings to 90°C (300 V) and 105°C (600 V)
- Superior low-temperature flexibility to -30°C
- Outstanding ultraviolet light stability in all jacket colors
- UL VW-1 and CSA FT-1 flammability ratings
- Nylon ripcord for easy jacket stripping

Applications

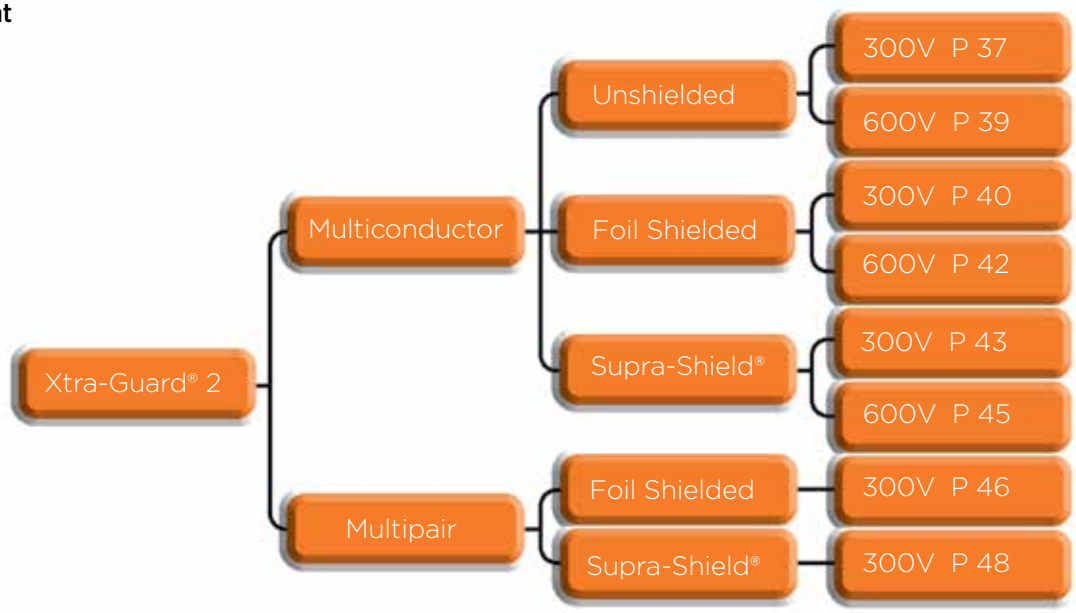
- CNC machine centers
- Automotive assembly plant operations
- Military ground support systems
- Packaging machinery
- Petrochemical plant operations
- Geophysical exploration equipment

FIT® Tubing Recommendations

- FIT-750: Bonding adhesive-lined, cross-linked polyolefin

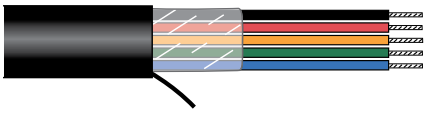
SLATE	BEIGE	WHITE
RED	BLACK	BLUE
GREEN	YELLOW	ORANGE

Xtra-Guard Cables are available in a range of long-lasting colors for fast, easy identification; for safety reasons; and matching the color of your system.



Xtra-Guard® 2

Oil and Abrasion Resistant
300 V Unshielded, Multiconductor



UL AWM 20668 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 90°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25012	2	0.156	3.96	0.032	0.81
25013	3	0.163	4.14	0.032	0.81
25014	4	0.175	4.45	0.032	0.81
25016	6	0.201	5.11	0.032	0.81
25018	8	0.215	5.46	0.032	0.81
25020	10	0.244	6.20	0.032	0.81
25020/15	15	0.271	6.88	0.032	0.81
25020/20	20	0.300	7.62	0.032	0.81
25020/25	25	0.332	8.43	0.032	0.81

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25002	2	0.168	4.27	0.032	0.81
25003	3	0.176	4.47	0.032	0.81
25004	4	0.189	4.80	0.032	0.81
25006	6	0.219	5.56	0.032	0.81
25008	8	0.235	5.97	0.032	0.81
25010	10	0.268	6.81	0.032	0.81
25010/15	15	0.299	7.59	0.032	0.81
25010/20	20	0.331	8.41	0.032	0.81
25010/25	25	0.368	9.35	0.032	0.81

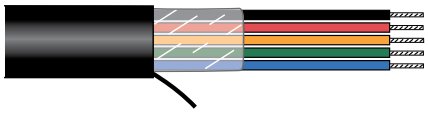
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25052	2	0.208	5.28	0.032	0.81
25053	3	0.219	5.56	0.032	0.81
25054	4	0.238	6.05	0.032	0.81
25056	6	0.280	7.11	0.032	0.81
25058	8	0.302	7.67	0.032	0.81
25060	10	0.348	8.84	0.032	0.81
25060/15	15	0.391	9.93	0.032	0.81
25060/20	20	0.437	11.10	0.032	0.81
25060/25	25	0.488	12.40	0.032	0.81
25060/30	30	0.517	13.13	0.032	0.81
25060/40	40	0.622	15.80	0.053	1.35
25060/50	50	0.684	17.37	0.053	1.35
25060/60	60	0.740	18.80	0.053	1.35
25060/70	70	0.859	21.82	0.053	1.35

Xtra-Guard® 2

Oil and Abrasion Resistant
300 V Unshielded, Multiconductor



UL AWM 20668 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 90°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25062	2	0.226	5.74	0.032	0.81
25062/1*	2	0.226	5.74	0.032	0.81
25063	3	0.238	6.05	0.032	0.81
25063/1*	3	0.238	6.05	0.032	0.81
25064	4	0.259	6.58	0.032	0.81
25066	6	0.307	7.80	0.032	0.81
25068	8	0.332	8.43	0.032	0.81
25070	10	0.384	9.75	0.032	0.81
25070/15	15	0.433	11.00	0.032	0.81
25070/20	20	0.484	12.29	0.032	0.81
25070/25	25	0.542	13.77	0.032	0.81

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

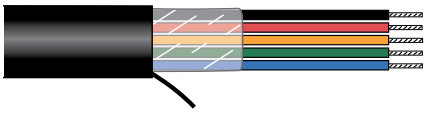
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25072	2	0.250	6.35	0.032	0.81
25072/1*	2	0.250	6.35	0.032	0.81
25073	3	0.264	6.71	0.032	0.81
25073/1*	3	0.264	6.71	0.032	0.81
25074	4	0.288	7.32	0.032	0.81
25076	6	0.343	8.71	0.032	0.81
25078	8	0.372	9.45	0.032	0.81
25080	10	0.432	10.97	0.032	0.81
25080/15	15	0.488	12.40	0.032	0.81
25080/20	20	0.547	13.89	0.053	1.35
25080/25	25	0.656	16.66	0.053	1.35

*Conductors color-coded per international standards: brown, blue, green/yellow.

Xtra-Guard® 2

Oil and Abrasion Resistant
600 V Unshielded, Multiconductor



UL AWM 20952 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 105°C

Conductor Color Coding

- Chart E (page 503)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25422	2	0.352	8.94	0.063	1.60
25423	3	0.369	9.37	0.063	1.60
25424	4	0.399	10.13	0.063	1.60
25427	7	0.466	11.84	0.063	1.60
25429	9	0.535	13.59	0.063	1.60
25429/12	12	0.591	15.01	0.063	1.60

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25432	2	0.376	9.55	0.063	1.60
25433	3	0.395	10.03	0.063	1.60
25434	4	0.428	10.87	0.063	1.60
25435	5	0.464	11.79	0.063	1.60
25439	9	0.579	14.71	0.063	1.60
25439/12	12	0.641	16.28	0.063	1.60
25439/19	19	0.746	18.95	0.083	2.11

14 AWG (2.08 mm²)

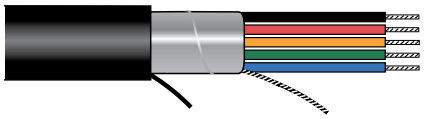
Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25442	2	0.406	10.31	0.063	1.60
25443	3	0.428	10.87	0.063	1.60
25444	4	0.464	11.79	0.063	1.60
25445	5	0.505	12.83	0.063	1.60
25449	9	0.634	16.10	0.063	1.60
25449/12	12	0.703	17.86	0.063	1.60

RoHS Compliant CA PROP 65

Xtra-Guard® 2

Oil and Abrasion Resistant
300 V Foil Shielded, Multiconductor



UL AWM 20668 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 90°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Aluminum/polyester/aluminum foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25092	2	0.160	4.06	0.032	0.81
25093	3	0.167	4.24	0.032	0.81
25094	4	0.179	4.55	0.032	0.81
25096	6	0.205	5.21	0.032	0.81
25098	8	0.219	5.56	0.032	0.81
25100	10	0.248	6.30	0.032	0.81
25100/15	15	0.275	6.99	0.032	0.81
25100/20	20	0.304	7.72	0.032	0.81
25100/25	25	0.336	8.53	0.032	0.81

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25192	2	0.172	4.37	0.032	0.81
25193	3	0.180	4.57	0.032	0.81
25194	4	0.193	4.90	0.032	0.81
25196	6	0.223	5.66	0.032	0.81
25198	8	0.239	6.07	0.032	0.81
25199/10	10	0.272	6.91	0.032	0.81
25199/15	15	0.303	7.70	0.032	0.81
25199/20	20	0.335	8.51	0.032	0.81
25199/25	25	0.372	9.45	0.032	0.81
25199/30	30	0.393	9.98	0.032	0.81
25199/40	40	0.438	11.13	0.032	0.81
25199/50	50	0.482	12.24	0.032	0.81

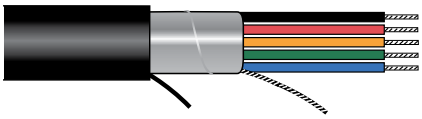
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25462	2	0.212	5.38	0.032	0.81
25463	3	0.223	5.66	0.032	0.81
25464	4	0.242	6.15	0.032	0.81
25466	6	0.284	7.21	0.032	0.81
25468	8	0.306	7.77	0.032	0.81
25470	10	0.352	8.94	0.032	0.81
25470/15	15	0.395	10.03	0.032	0.81
25470/20	20	0.441	11.20	0.032	0.81
25470/25	25	0.492	12.50	0.032	0.81
25470/30	30	0.521	13.23	0.032	0.81
25470/40	40	0.626	15.90	0.053	1.35
25470/50	50	0.688	17.48	0.053	1.35

Xtra-Guard® 2

Oil and Abrasion Resistant
300 V Foil Shielded, Multiconductor



UL AWM 20668 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 90°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Aluminum/polyester/aluminum foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25382	2	0.230	5.84	0.032	0.81
25382/1*	2	0.230	5.84	0.032	0.81
25383	3	0.242	6.14	0.032	0.81
25383/1*	3	0.242	6.14	0.032	0.81
25384	4	0.263	6.68	0.032	0.81
25386	6	0.311	7.90	0.032	0.81
25388	8	0.336	8.53	0.032	0.81
25390	10	0.388	9.86	0.032	0.81
25390/15	15	0.437	11.10	0.032	0.81
25390/20	20	0.488	12.40	0.032	0.81
25390/25	25	0.588	14.94	0.053	1.35
25390/30	30	0.621	15.77	0.053	1.35
25390/40	40	0.692	17.58	0.053	1.35
25390/50	50	0.762	19.35	0.053	1.35

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

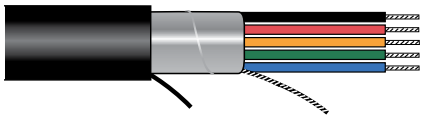
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25362	2	0.254	6.45	0.032	0.81
25362/1*	2	0.254	6.45	0.032	0.81
25363	3	0.268	6.81	0.032	0.81
25363/1*	3	0.268	6.81	0.032	0.81
25364	4	0.292	7.42	0.032	0.81
25366	6	0.347	8.81	0.032	0.81
25368	8	0.376	9.55	0.032	0.81
25370	10	0.436	11.07	0.032	0.81
25370/15	15	0.492	12.50	0.032	0.81
25370/20	20	0.593	15.06	0.053	1.35
25370/25	25	0.660	16.76	0.053	1.35
25370/30	30	0.698	17.73	0.053	1.35
25370/40	40	0.779	19.79	0.083	2.11
25370/50	50	0.921	23.39	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

Xtra-Guard® 2

Oil and Abrasion Resistant
600 V Foil Shielded, Multiconductor



UL AWM 20952 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 105°C

Conductor Color Coding

- Chart E (page 503)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Aluminum/polyester/aluminum foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25430/2	2	0.356	9.04	0.063	1.60
25430/3	3	0.373	9.47	0.063	1.60
25430/4	4	0.403	10.24	0.063	1.60
25430/5	5	0.436	11.07	0.063	1.60
25430/7	7	0.470	11.94	0.063	1.60
25430/9	9	0.539	13.69	0.063	1.60
25430/12	12	0.595	15.11	0.063	1.60
25430/15	15	0.647	16.43	0.063	1.60
25430/19	19	0.690	17.53	0.063	1.60

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25440/2	2	0.380	9.65	0.063	1.60
25440/3	3	0.399	10.13	0.063	1.60
25440/4	4	0.432	10.97	0.063	1.60
25440/5	5	0.468	11.89	0.063	1.60
25440/7	7	0.506	12.85	0.063	1.60
25440/9	9	0.583	14.81	0.063	1.60
25440/12	12	0.645	16.38	0.063	1.60
25440/15	15	0.702	17.83	0.063	1.60

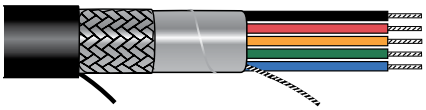
14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25450/2	2	0.410	10.41	0.063	1.60
25450/3	3	0.432	10.97	0.063	1.60
25450/4	4	0.468	11.89	0.063	1.60
25450/5	5	0.509	12.93	0.063	1.60
25450/7	7	0.551	14.00	0.063	1.60
25450/9	9	0.638	16.21	0.063	1.60
25450/12	12	0.707	17.96	0.063	1.60
25450/15	15	0.771	19.58	0.063	1.60

Xtra-Guard® 2

Oil and Abrasion Resistant
300 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20668 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 90°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25112	2	0.184	4.67	0.032	0.81
25113	3	0.191	4.85	0.032	0.81
25114	4	0.203	5.16	0.032	0.81
25116	6	0.229	5.82	0.032	0.81
25118	8	0.243	6.17	0.032	0.81
25120	10	0.272	6.91	0.032	0.81
25120/15	15	0.299	7.59	0.032	0.81
25120/20	20	0.328	8.33	0.032	0.81
25120/25	25	0.360	9.14	0.032	0.81
25120/30	30	0.378	9.60	0.032	0.81
25120/40	40	0.418	10.62	0.032	0.81
25120/50	50	0.457	11.61	0.032	0.81

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25102	2	0.196	4.97	0.032	0.81
25103	3	0.204	5.18	0.032	0.81
25104	4	0.217	5.51	0.032	0.81
25106	6	0.247	6.27	0.032	0.81
25108	8	0.263	6.68	0.032	0.81
25110	10	0.296	7.52	0.032	0.81
25110/15	15	0.327	8.31	0.032	0.81
25110/20	20	0.359	9.12	0.032	0.81
25110/25	25	0.396	10.06	0.032	0.81
25110/30	30	0.417	10.59	0.032	0.81
25110/40	40	0.462	11.73	0.032	0.81
25110/50	50	0.506	12.85	0.032	0.81

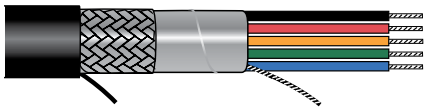
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25152	2	0.236	5.99	0.032	0.81
25153	3	0.247	6.27	0.032	0.81
25154	4	0.266	6.76	0.032	0.81
25156	6	0.308	7.82	0.032	0.81
25158	8	0.330	8.38	0.032	0.81
25160	10	0.376	9.55	0.032	0.81
25160/15	15	0.419	10.64	0.032	0.81
25160/20	20	0.465	11.81	0.032	0.81
25160/25	25	0.516	13.11	0.032	0.81
25160/30	30	0.545	13.84	0.032	0.81
25160/40	40	0.656	16.66	0.053	1.35
25160/50	50	0.718	18.24	0.053	1.35

Xtra-Guard® 2

Oil and Abrasion Resistant
300 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20668 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 90°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25162	2	0.254	6.45	0.032	0.81
25162/1*	2	0.254	6.45	0.032	0.81
25163	3	0.266	6.76	0.032	0.81
25163/1*	3	0.266	6.76	0.032	0.81
25164	4	0.287	7.29	0.032	0.81
25166	6	0.335	8.51	0.032	0.81
25168	8	0.360	9.14	0.032	0.81
25170	10	0.412	10.46	0.032	0.81
25170/15	15	0.461	11.71	0.032	0.81
25170/20	20	0.512	13.00	0.032	0.81
25170/25	25	0.612	15.54	0.053	1.35
25170/30	30	0.651	16.54	0.053	1.35
25170/40	40	0.722	18.34	0.053	1.35

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

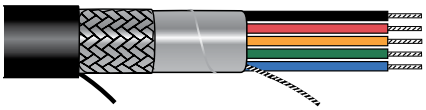
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25172	2	0.278	7.06	0.032	0.81
25172/1*	2	0.278	7.06	0.032	0.81
25173	3	0.292	7.42	0.032	0.81
25173/1*	3	0.292	7.42	0.032	0.81
25174	4	0.316	8.03	0.032	0.81
25176	6	0.371	9.42	0.032	0.81
25178	8	0.400	10.16	0.032	0.81
25180	10	0.460	11.68	0.032	0.81
25180/15	15	0.516	13.11	0.032	0.81
25180/20	20	0.617	15.67	0.053	1.35
25180/25	25	0.690	17.53	0.053	1.35
25180/30	30	0.728	18.49	0.053	1.35
25180/40	40	0.869	22.07	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

Xtra-Guard® 2

Oil and Abrasion Resistant
600 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20952 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 105°C

Conductor Color Coding

- Chart E (page 503)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25522	2	0.380	9.65	0.063	1.60
25523	3	0.397	10.08	0.063	1.60
25524	4	0.427	10.85	0.063	1.60
25525	5	0.460	11.68	0.063	1.60
25527	7	0.494	12.55	0.063	1.60
25529	9	0.563	14.30	0.063	1.60

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25532	2	0.404	10.26	0.063	1.60
25533	3	0.423	10.74	0.063	1.60
25534	4	0.456	11.58	0.063	1.60
25535	5	0.492	12.50	0.063	1.60
25537	7	0.530	13.46	0.063	1.60
25539	9	0.607	15.42	0.063	1.60
25539/12	12	0.675	17.15	0.063	1.60
25539/15	15	0.772	19.61	0.083	2.11
25539/19	19	0.820	20.83	0.083	2.11

14 AWG (2.08 mm²)

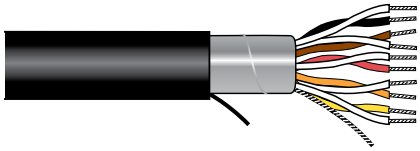
Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25542	2	0.434	11.02	0.063	1.60
25543	3	0.456	11.58	0.063	1.60
25544	4	0.492	12.50	0.063	1.60
25545	5	0.533	13.54	0.063	1.60
25547	7	0.575	14.61	0.063	1.60
25549	9	0.668	16.97	0.063	1.60
25549/12	12	0.777	19.74	0.083	2.11

RoHS Compliant CA PROP 65

Xtra-Guard® 2

Oil and Abrasion Resistant 300 V Foil Shield, Multipair



UL AWM 20668 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 90°C

Conductor Color Coding

- 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Aluminum/polyester/aluminum foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25491	1	0.160	4.06	0.032	0.81
25492	2	0.216	5.48	0.032	0.81
25493	3	0.228	5.79	0.032	0.81
25494	4	0.247	6.27	0.032	0.81
25495	5	0.268	6.81	0.032	0.81
25496	6	0.290	7.37	0.032	0.81
25499	9	0.336	8.53	0.032	0.81
25499/11	11	0.361	9.17	0.032	0.81
25499/15	15	0.405	10.29	0.032	0.81
25499/19	19	0.433	11.00	0.032	0.81
25499/27	27	0.516	13.11	0.032	0.81

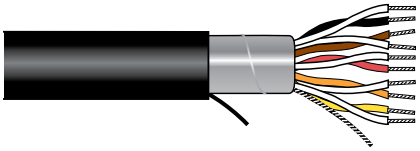
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25481	1	0.172	4.37	0.032	0.81
25482	2	0.236	5.99	0.032	0.81
25483	3	0.249	6.32	0.032	0.81
25484	4	0.271	6.88	0.032	0.81
25485	5	0.295	7.49	0.032	0.81
25486	6	0.320	8.13	0.032	0.81
25489	9	0.372	9.45	0.032	0.81
25489/11	11	0.400	10.16	0.032	0.81
25489/15	15	0.451	11.46	0.032	0.81
25489/19	19	0.483	12.27	0.032	0.81

Xtra-Guard® 2

Oil and Abrasion Resistant 300 V Foil Shield, Multipair



UL AWM 20668 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 90°C

Conductor Color Coding

- 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Aluminum/polyester/aluminum foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25452	2	0.302	7.67	0.032	0.81
25453	3	0.320	8.13	0.032	0.81
25456	6	0.419	10.64	0.032	0.81
25459	9	0.491	12.47	0.032	0.81
25459/12	12	0.549	13.94	0.032	0.81
25459/15	15	0.644	16.36	0.053	1.35

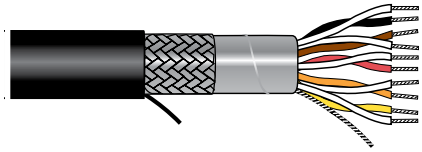
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25372	2	0.331	8.41	0.032	0.81
25373	3	0.352	8.94	0.032	0.81
25376	6	0.464	11.79	0.032	0.81
25379	9	0.545	13.84	0.053	1.35
25379/12	12	0.652	16.56	0.053	1.35

Xtra-Guard® 2

Oil and Abrasion Resistant
300 V Supra-Shield® Foil + Braid, Multipair



UL AWM 20668 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 90°C

Conductor Color Coding

- 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25271	1	0.184	4.67	0.032	0.81
25272	2	0.240	6.10	0.032	0.81
25273	3	0.252	6.40	0.032	0.81
25274	4	0.271	6.88	0.032	0.81
25275	5	0.292	7.42	0.032	0.81
25276	6	0.314	7.98	0.032	0.81
25279	9	0.360	9.14	0.032	0.81
25279/11	11	0.385	9.78	0.032	0.81
25279/15	15	0.429	10.90	0.032	0.81
25279/19	19	0.457	11.61	0.032	0.81

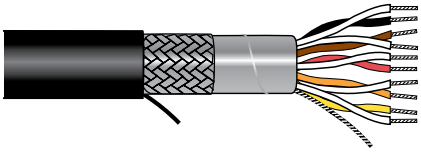
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25121	1	0.196	4.98	0.032	0.81
25122	2	0.260	6.60	0.032	0.81
25123	3	0.273	6.93	0.032	0.81
25124	4	0.295	7.49	0.032	0.81
25125	5	0.319	8.10	0.032	0.81
25126	6	0.344	8.74	0.032	0.81
25129	9	0.396	10.06	0.032	0.81
25129/11	11	0.424	10.77	0.032	0.81
25129/15	15	0.475	12.07	0.032	0.81

Xtra-Guard® 2

Oil and Abrasion Resistant
300 V Supra-Shield® Foil + Braid, Multipair



UL AWM 20668 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- –30°C to 90°C

Conductor Color Coding

- 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25292	2	0.326	8.28	0.032	0.81
25293	3	0.344	8.74	0.032	0.81
25296	6	0.443	11.25	0.032	0.81
25299	9	0.515	13.08	0.032	0.81

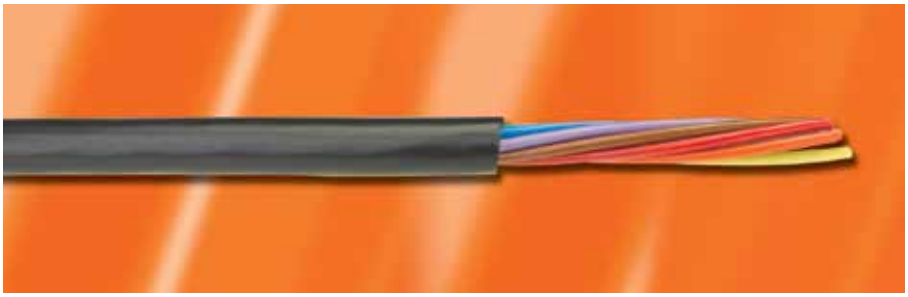
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
25132	2	0.355	9.02	0.032	0.81
25133	3	0.376	9.55	0.032	0.81
25136	6	0.488	12.40	0.032	0.81
25139	9	0.611	15.52	0.053	1.35
25139/12	12	0.682	17.32	0.053	1.35

Xtra-Guard® 3

Direct Burial





Features

- The preferred outdoor cable for direct burial
- Resistant to the effects of weathering, moisture, and UV aging without the costly use of conduit
- 6 times the water-resistance of PVC
- Specially formulated polyethylene jacket for outstanding service life and ultraviolet light stability in all jacket colors
- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- 300 V and 600 V
- Unshielded, foil shielded, or Supra-Shield® foil + braid
- Temperature ratings to 80°C
- Outstanding ultraviolet light stability in all jacket colors

Applications

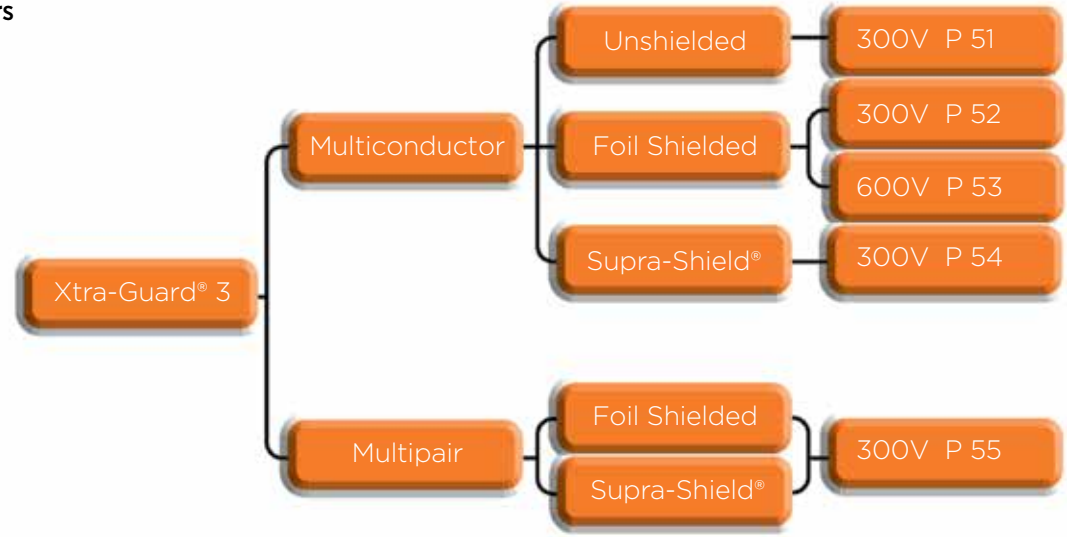
- Interbuilding communications
- Satellite communications equipment
- Land irrigation systems
- Outdoor security systems
- Outdoor scoreboards and displays
- Pipeline sensor controls

FIT® Tubing Recommendations

- FIT-700: Bonding thermoplastic adhesive-lined, cross-linked polyolefin

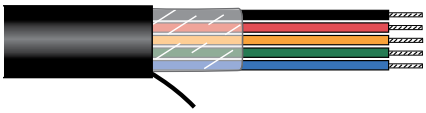
SLATE	BEIGE	WHITE
RED	BLACK	BLUE
GREEN	YELLOW	ORANGE

Xtra-Guard cables are available in a range of long-lasting colors for fast, easy identification; for safety reasons; and matching the color of your system.



Xtra-Guard® 3

Direct Burial
300 V Unshielded, Multiconductor



Operating Temperature

- –30°C to 80°C

Conductor Color Coding

- 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

RoHS Compliant

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35002	2	0.167	4.24	0.032	0.81
35003	3	0.175	4.45	0.032	0.81
35004	4	0.188	4.78	0.032	0.81
35006	6	0.218	5.54	0.032	0.81
35008	8	0.233	5.92	0.032	0.81
35010	10	0.267	6.78	0.032	0.81
35010/15	15	0.297	7.54	0.032	0.81

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35052	2	0.207	5.26	0.032	0.81
35053	3	0.218	5.54	0.032	0.81
35054	4	0.236	5.99	0.032	0.81
35056	6	0.278	7.06	0.032	0.81
35058	8	0.300	7.62	0.032	0.81
35060	10	0.347	8.81	0.032	0.81
35060/15	15	0.389	9.88	0.032	0.81

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35062	2	0.225	5.72	0.032	0.81
35063	3	0.237	6.02	0.032	0.81
35064	4	0.258	6.55	0.032	0.81
35066	6	0.305	7.75	0.032	0.81
35068	8	0.330	8.38	0.032	0.81
35070	10	0.383	9.73	0.032	0.81
35070/15	15	0.430	10.92	0.032	0.81

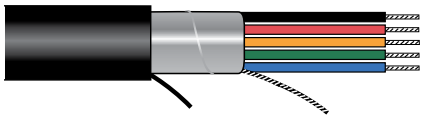
16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35072	2	0.249	6.32	0.032	0.81
35073	3	0.263	6.68	0.032	0.81
35074	4	0.287	7.29	0.032	0.81
35076	6	0.341	8.66	0.032	0.81
35078	8	0.370	9.40	0.032	0.81
35080	10	0.431	10.95	0.032	0.81
35080/15	15	0.485	12.32	0.032	0.81

Xtra-Guard® 3

Direct Burial
300 V Foil Shield, Multiconductor



Operating Temperature

- –30°C to 80°C

Conductor Color Coding

- 22 AWG: Chart E (page 503)
- 20 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35192	2	0.171	4.34	0.032	0.81
35193	3	0.179	4.55	0.032	0.81
35194	4	0.192	4.88	0.032	0.81
35196	6	0.222	5.64	0.032	0.81
35198	8	0.237	6.02	0.032	0.81
35199/10	10	0.271	6.88	0.032	0.81
35199/15	15	0.301	7.65	0.032	0.81
35199/20	20	0.333	8.46	0.032	0.81
35199/25	25	0.371	9.42	0.032	0.81
35199/30	30	0.392	9.96	0.032	0.81
35199/40	40	0.436	11.07	0.032	0.81
35199/50	50	0.479	12.17	0.032	0.81
35199/60	60	0.521	13.23	0.032	0.81

20 AWG (0.56 mm²)

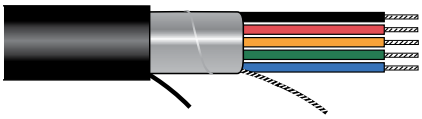
Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35462	2	0.211	5.36	0.032	0.81
35463	3	0.222	5.64	0.032	0.81
35464	4	0.240	6.10	0.032	0.81
35466	6	0.282	7.16	0.032	0.81
35468	8	0.304	7.72	0.032	0.81
35470	10	0.351	8.92	0.032	0.81
35470/15	15	0.393	9.98	0.032	0.81
35470/20	20	0.437	11.10	0.032	0.81
35470/25	25	0.491	12.47	0.032	0.81

RoHS Compliant

Xtra-Guard® 3

Direct Burial
300 V Foil Shield, Multiconductor



Operating Temperature

- –30°C to 80°C

Conductor Color Coding

- Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35382	2	0.229	5.82	0.032	0.81
35383	3	0.241	6.12	0.032	0.81
35384	4	0.262	6.65	0.032	0.81
35386	6	0.309	7.85	0.032	0.81
35388	8	0.334	8.48	0.032	0.81
35390	10	0.387	9.83	0.032	0.81
35390/15	15	0.434	11.02	0.032	0.81
35390/20	20	0.485	12.32	0.032	0.81
35390/25	25	0.587	14.91	0.053	1.35

16 AWG (1.23 mm²)

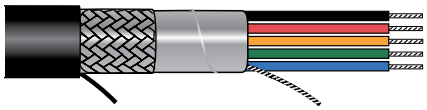
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35362	2	0.253	6.43	0.032	0.81
35363	3	0.267	6.78	0.032	0.81
35364	4	0.291	7.39	0.032	0.81
35366	6	0.345	8.76	0.032	0.81
35368	8	0.374	9.50	0.032	0.81
35370	10	0.435	11.05	0.032	0.81
35370/15	15	0.489	12.42	0.032	0.81
35370/20	20	0.589	14.96	0.053	1.35
35370/25	25	0.659	16.74	0.053	1.35

RoHS Compliant

Xtra-Guard® 3

Direct Burial
300 V Supra-Shield® Foil + Braid, Multiconductor



Operating Temperature

- –30°C to 80°C

Conductor Color Coding

- 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

RoHS Compliant

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35102	2	0.195	4.97	0.032	0.81
35103	3	0.203	5.16	0.032	0.81
35104	4	0.216	5.49	0.032	0.81
35106	6	0.246	6.25	0.032	0.81
35108	8	0.261	6.63	0.032	0.81
35110	10	0.295	7.49	0.032	0.81
35110/15	15	0.325	8.26	0.032	0.81

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35152	2	0.235	5.97	0.032	0.81
35153	3	0.246	6.25	0.032	0.81
35154	4	0.264	6.71	0.032	0.81
35156	6	0.306	7.77	0.032	0.81
35158	8	0.328	8.33	0.032	0.81
35160	10	0.375	9.53	0.032	0.81
35160/15	15	0.417	10.59	0.032	0.81

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35162	2	0.253	6.43	0.032	0.81
35162/1*	2	0.253	6.43	0.032	0.81
35163	3	0.265	6.73	0.032	0.81
35163/1*	3	0.265	6.73	0.032	0.81
35164	4	0.286	7.26	0.032	0.81
35166	6	0.333	8.46	0.032	0.81
35168	8	0.358	9.09	0.032	0.81
35170	10	0.411	10.44	0.032	0.81
35170/15	15	0.458	11.63	0.032	0.81

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

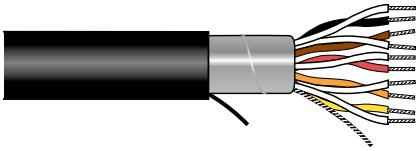
Stranding: 9/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35172	2	0.277	7.04	0.032	0.81
35172/1*	2	0.277	7.04	0.032	0.81
35173	3	0.291	7.39	0.032	0.81
35173/1*	3	0.291	7.39	0.032	0.81
35174	4	0.315	8.00	0.032	0.81
35176	6	0.369	9.37	0.032	0.81
35178	8	0.398	10.11	0.032	0.81
35180	10	0.459	11.66	0.032	0.81
35180/15	15	0.513	13.03	0.032	0.81

*Conductors color-coded per international standards: brown, blue, green/yellow.

Xtra-Guard® 3

Direct Burial
300 V Foil Shield, Multipair



Operating Temperature

- –30°C to 80°C

Conductor Color Coding

- 24, 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35491	1	0.159	4.04	0.032	0.81
35492	2	0.215	5.46	0.032	0.81
35493	3	0.227	5.77	0.032	0.81
35494	4	0.246	6.25	0.032	0.81

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35481	1	0.171	4.34	0.032	0.81
35482	2	0.235	5.97	0.032	0.81
35483	3	0.248	6.30	0.032	0.81
35484	4	0.269	6.83	0.032	0.81
35485	5	0.293	7.44	0.032	0.81

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35452	2	0.301	7.65	0.032	0.81
35453	3	0.319	8.10	0.032	0.81

18 AWG (0.81 mm²)

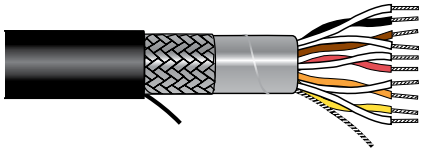
Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35372	2	0.330	8.38	0.032	0.81
35373	3	0.350	8.89	0.032	0.81
35376	6	0.462	11.73	0.032	0.81

RoHS Compliant

Xtra-Guard® 3

Direct Burial
300 V Supra-Shield® Foil + Braid, Multipair



24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35272	2	0.239	6.07	0.032	0.81

Operating Temperature

- –30°C to 80°C

Conductor Color Coding

- Chart B (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
35121	1	0.195	4.95	0.032	0.81
35122	2	0.259	6.58	0.032	0.81
35123	3	0.272	6.91	0.032	0.81
35124	4	0.293	7.44	0.032	0.81
35125	5	0.317	8.05	0.032	0.81
35126	6	0.342	8.69	0.032	0.81
35129	9	0.393	9.98	0.032	0.81

RoHS Compliant

Xtra-Guard® 4

Advanced Temperature and Chemical Performance





Features

- The preferred outdoor cable for advanced temperature and chemical performance
- Temperature range from -50°C to 125°C
- High-performance TPE insulation and jacket offering 3 times the low-temperature flexibility of conventional PVC
- Solvent and water resistant
- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- 300 V and 600 V
- Unshielded, foil shielded, or Supra-Shield® foil + braid
- Outstanding ultraviolet light stability in all jacket colors
- Nylon ripcord for easy jacket stripping
- Approved by the US Mine Safety and Health Administration and The Pennsylvania Department of Environmental Protection
- Suitable for use in Class 1, Division 2 Locations under the applicable sections of the National Electric Code
- UL Types TC, PLTC, and WTTC
- CSA AWM I A/B II A/B FT1
- Passes UL 1685 Vertical Tray Flame Test

Applications

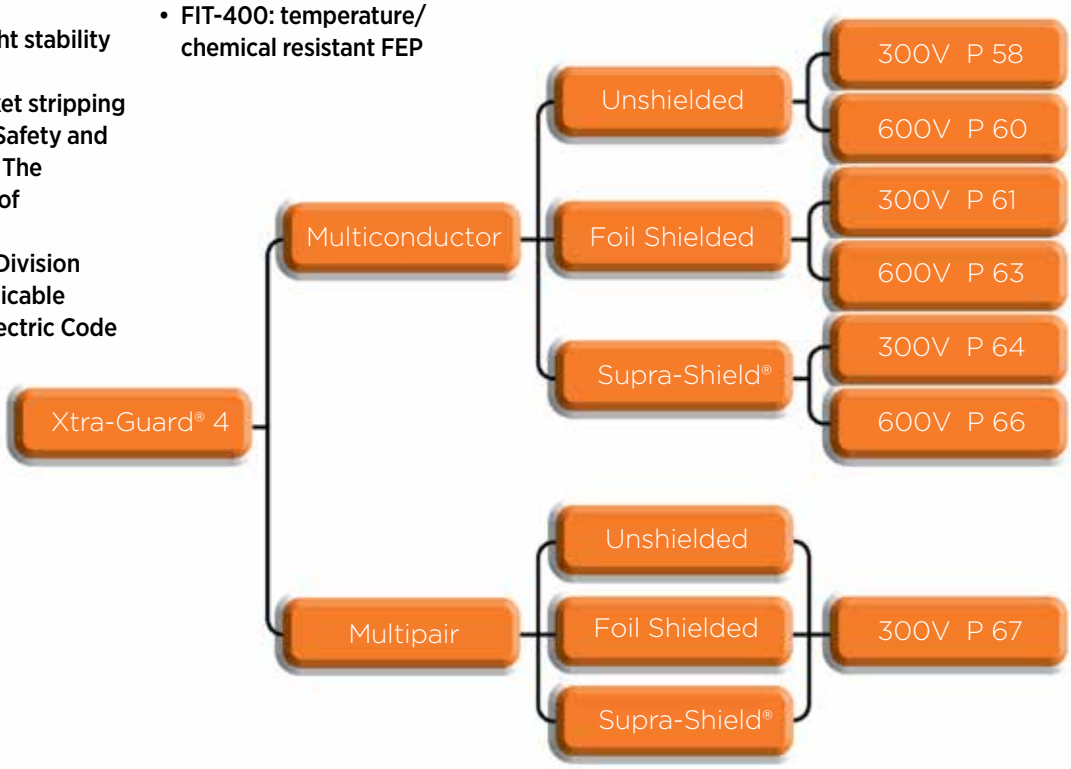
- Wood, paper, pulp, plant operations
- Mining instruments and controls
- Mass transit systems
- Military electronic applications
- Food and beverage plants
- Petrochemical process controls
- Arctic pipeline controls

FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/ chemical resistant FEP

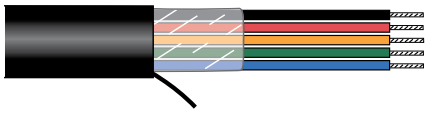
SLATE	BEIGE	WHITE
RED	BLACK	BLUE
GREEN	YELLOW	ORANGE

Xtra-Guard cables are available in a range of long-lasting colors for fast, easy identification; for safety reasons; and matching the color of your system.



Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Unshielded, Multiconductor



UL AWM 20237
UL PLTC*
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 & 20 AWG)

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)*

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45012	2	0.200	5.08	0.042	1.07
45013	3	0.209	5.31	0.042	1.07
45014	4	0.224	5.69	0.042	1.07
45016	6	0.257	6.53	0.042	1.07
45018	8	0.275	6.99	0.042	1.07
45020	10	0.312	7.92	0.042	1.07
45020/15	15	0.347	8.81	0.042	1.07
45020/20	20	0.383	9.73	0.042	1.07
45020/25	25	0.424	10.77	0.042	1.07

* UL AWM 20237, CSA AWM I/II A/B FT1 only

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45002	2	0.218	5.54	0.045	1.14
45003	3	0.228	5.79	0.045	1.14
45004	4	0.244	6.20	0.045	1.14
45006	6	0.281	7.14	0.045	1.14
45008	8	0.301	7.65	0.045	1.14
45010	10	0.342	8.69	0.045	1.14
45010/15	15	0.380	9.65	0.045	1.14
45010/20	20	0.441	11.20	0.055	1.40
45010/25	25	0.486	12.34	0.055	1.40

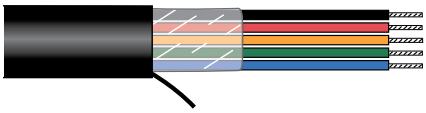
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45052	2	0.234	5.94	0.045	1.14
45053	3	0.245	6.22	0.045	1.14
45054	4	0.264	6.71	0.045	1.14
45056	6	0.306	7.77	0.045	1.14
45058	8	0.328	8.33	0.045	1.14
45060	10	0.374	9.50	0.045	1.14
45060/15	15	0.437	11.10	0.055	1.40
45060/20	20	0.483	12.27	0.055	1.40
45060/25	25	0.534	13.56	0.055	1.40

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Unshielded, Multiconductor



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45062	2	0.252	6.40	0.045	1.14
45062/1*	2	0.252	6.40	0.045	1.14
45063	3	0.264	6.71	0.045	1.14
45063/1*	3	0.264	6.71	0.045	1.14
45064	4	0.285	7.24	0.045	1.14
45066	6	0.333	8.46	0.045	1.14
45068	8	0.358	9.09	0.045	1.14
45070	10	0.430	10.92	0.055	1.40
45070/15	15	0.479	12.17	0.055	1.40
45070/20	20	0.530	13.46	0.055	1.40
45070/25	25	0.588	14.94	0.055	1.40

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

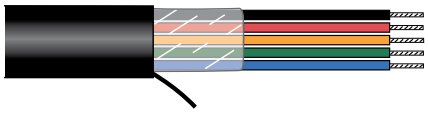
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45072	2	0.276	7.01	0.045	1.14
45072/1*	2	0.276	7.01	0.045	1.14
45073	3	0.290	7.37	0.045	1.14
45073/1*	3	0.290	7.37	0.045	1.14
45074	4	0.314	7.98	0.045	1.14
45076	6	0.369	9.37	0.045	1.14
45078	8	0.418	10.62	0.055	1.40
45080	10	0.478	12.14	0.055	1.40
45080/15	15	0.534	13.56	0.055	1.40
45080/20	20	0.593	15.06	0.055	1.40
45080/25	25	0.680	17.27	0.055	1.40

*Conductors color-coded per international standards: brown, blue, green/yellow.

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 600 V Unshielded, Multiconductor



UL AWM 20238
UL TC, WTTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- Chart E (page 503)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45422	2	0.336	8.53	0.055	1.40
45423	3	0.353	8.97	0.055	1.40
45424	4	0.383	9.73	0.055	1.40
45425	5	0.416	10.57	0.055	1.40
45427	7	0.450	11.43	0.055	1.40
45429	9	0.519	13.18	0.055	1.40

16 AWG (1.23 mm²)

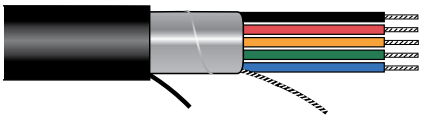
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45432	2	0.360	9.14	0.055	1.40
45433	3	0.379	9.63	0.055	1.40
45434	4	0.412	10.46	0.055	1.40
45435	5	0.448	11.38	0.055	1.40
45437	7	0.486	12.34	0.055	1.40
45439	9	0.583	14.81	0.065	1.65

RoHS Compliant CA PROP 65

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Foil Shielded, Multiconductor



UL AWM 20237
UL PLTC*
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 & 20 AWG)

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45092	2	0.204	5.18	0.042	1.07
45093	3	0.213	5.41	0.042	1.07
45094	4	0.228	5.79	0.042	1.07
45096	6	0.261	6.63	0.042	1.07
45098	8	0.279	7.09	0.042	1.07
45100	10	0.316	8.03	0.042	1.07
45100/15	15	0.351	8.92	0.042	1.07
45100/20	20	0.387	9.83	0.042	1.07
45100/25	25	0.428	10.87	0.042	1.07

* UL AWM 20237, CSA AWM I/II A/B FT1 only

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45192	2	0.222	5.64	0.045	1.14
45193	3	0.232	5.89	0.045	1.14
45194	4	0.248	6.30	0.045	1.14
45196	6	0.285	7.24	0.045	1.14
45198	8	0.305	7.75	0.045	1.14
45199/10	10	0.346	8.79	0.045	1.14
45199/15	15	0.404	10.26	0.055	1.40
45199/20	20	0.445	11.30	0.055	1.40
45199/25	25	0.490	12.45	0.055	1.40

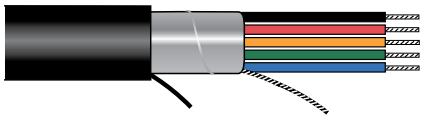
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45462	2	0.238	6.05	0.045	1.14
45463	3	0.249	6.32	0.045	1.14
45464	4	0.268	6.81	0.045	1.14
45466	6	0.310	7.87	0.045	1.14
45468	8	0.332	8.43	0.045	1.14
45470	10	0.378	9.60	0.045	1.14
45470/15	15	0.441	11.20	0.055	1.40
45470/20	20	0.487	12.37	0.055	1.40
45470/25	25	0.538	13.67	0.055	1.40
45470/40	40	0.650	16.51	0.065	1.65

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Foil Shielded, Multiconductor



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45382	2	0.256	6.50	0.045	1.14
45382/1*	2	0.256	6.50	0.045	1.14
45383	3	0.268	6.81	0.045	1.14
45383/1*	3	0.268	6.81	0.045	1.14
45384	4	0.289	7.34	0.045	1.14
45386	6	0.337	8.56	0.045	1.14
45388	8	0.362	9.19	0.045	1.14
45390	10	0.434	11.02	0.055	1.40
45390/15	15	0.483	12.27	0.055	1.40
45390/20	20	0.534	13.56	0.055	1.40
45390/25	25	0.592	15.04	0.055	1.40
45390/30	30	0.645	16.38	0.065	1.65

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

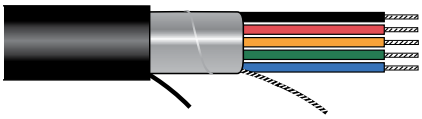
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45362	2	0.280	7.11	0.045	1.14
45362/1*	2	0.280	7.11	0.045	1.14
45363	3	0.294	7.47	0.045	1.14
45363/1*	3	0.294	7.47	0.045	1.14
45364	4	0.318	8.08	0.045	1.14
45366	6	0.373	9.47	0.045	1.14
45368	8	0.422	10.72	0.045	1.14
45370	10	0.482	12.24	0.055	1.40
45370/15	15	0.538	13.67	0.055	1.40
45370/20	20	0.597	15.16	0.055	1.40
45370/25	25	0.684	17.37	0.065	1.65

*Conductors color-coded per international standards: brown, blue, green/yellow.

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 600 V Foil Shielded, Multiconductor



UL AWM 20238
UL TC, WTTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- Chart E (page 503)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45430/2	2	0.340	8.64	0.055	1.40
45430/3	3	0.357	9.07	0.055	1.40
45430/4	4	0.387	9.83	0.055	1.40
45430/5	5	0.420	10.67	0.055	1.40
45430/7	7	0.454	11.53	0.055	1.40
45430/9	9	0.543	13.79	0.055	1.40
45430/12	12	0.599	15.21	0.065	1.65

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45440/2	2	0.364	9.25	0.055	1.40
45440/3	3	0.383	9.73	0.055	1.40
45440/5	5	0.452	11.48	0.055	1.40
45440/7	7	0.490	12.45	0.055	1.40
45440/9	9	0.587	14.91	0.065	1.65
45440/12	12	0.649	16.48	0.065	1.65

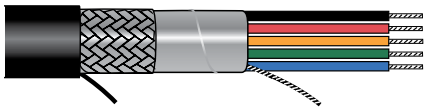
14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45450/3	3	0.416	10.57	0.055	1.40
45450/5	5	0.493	12.52	0.055	1.40
45450/7	7	0.555	14.10	0.065	1.65
45450/15	15	0.775	19.69	0.065	1.65

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 & 20 AWG)

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45112	2	0.228	5.79	0.042	1.07
45113	3	0.237	6.02	0.042	1.07
45114	4	0.252	6.40	0.042	1.07
45116	6	0.285	7.24	0.042	1.07
45118	8	0.303	7.70	0.042	1.07
45120	10	0.340	8.64	0.042	1.07
45120/15	15	0.375	9.53	0.042	1.07
45120/20	20	0.411	10.44	0.042	1.07
45120/25	25	0.452	11.48	0.042	1.07

* UL AWM 20237, CSA AWM I/II A/B FT1 only

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45102	2	0.246	6.25	0.045	1.14
45103	3	0.256	6.50	0.045	1.14
45104	4	0.272	6.91	0.045	1.14
45106	6	0.309	7.85	0.045	1.14
45108	8	0.329	8.36	0.045	1.14
45110	10	0.370	9.40	0.045	1.14
45110/15	15	0.428	10.87	0.055	1.40
45110/20	20	0.469	11.91	0.055	1.40
45110/25	25	0.514	13.06	0.055	1.40

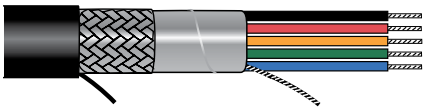
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45152	2	0.262	6.65	0.045	1.14
45153	3	0.273	6.93	0.045	1.14
45154	4	0.292	7.42	0.045	1.14
45156	6	0.334	8.48	0.045	1.14
45158	8	.0356	9.04	0.045	1.14
45160	10	0.422	10.72	0.055	1.40
45160/15	15	0.465	11.81	0.055	1.40
45160/20	20	0.511	12.98	0.055	1.40
45160/25	25	0.562	14.27	0.055	1.40

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- 24, 22 AWG: Chart E (page 503)
- 20, 18, 16 AWG: Chart D (page 502)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45162	2	0.280	7.11	0.045	1.14
45162/1*	2	0.280	7.11	0.045	1.14
45163	3	0.292	7.42	0.045	1.14
45163/1*	3	0.292	7.42	0.045	1.14
45164	4	0.313	7.95	0.045	1.14
45166	6	0.361	9.17	0.045	1.14
45168	8	0.406	10.31	0.045	1.14
45170	10	0.458	11.63	0.055	1.40
45170/15	15	0.507	12.88	0.055	1.40
45170/20	20	0.558	14.17	0.055	1.40
45170/25	25	0.636	16.15	0.065	1.65
45170/30	30	0.675	17.15	0.065	1.65

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

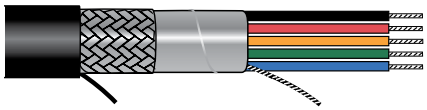
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45172	2	0.304	7.72	0.045	1.14
45172/1*	2	0.304	7.72	0.045	1.14
45173	3	0.318	8.08	0.045	1.14
45173/1*	3	0.318	8.08	0.045	1.14
45174	4	0.342	8.69	0.045	1.14
45176	6	0.417	10.59	0.055	1.40
45178	8	0.446	11.33	0.055	1.40
45180	10	0.506	12.85	0.055	1.40
45180/15	15	0.562	14.27	0.055	1.40
45180/20	20	0.641	16.28	0.065	1.65
45180/25	25	0.714	18.14	0.065	1.65

*Conductors color-coded per international standards: brown, blue, green/yellow.

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 600 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20238
UL TC, WTTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- Chart E (page 503)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45522	2	0.364	9.25	0.055	1.40
45523	3	0.381	9.68	0.055	1.40
45524	4	0.411	10.44	0.055	1.40
45525	5	0.444	11.28	0.055	1.40
45527	7	0.478	12.14	0.055	1.40
45529	9	0.567	14.40	0.065	1.65
45529/12	12	0.623	15.82	0.065	1.65

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45532	2	0.388	9.86	0.055	1.40
45533	3	0.407	10.34	0.055	1.40
45534	4	0.440	11.18	0.055	1.40
45535	5	0.476	12.09	0.055	1.40
45537	7	0.514	13.06	0.055	1.40
45539	9	0.611	15.52	0.065	1.65
45539/12	12	0.679	17.25	0.065	1.65

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45543	3	0.440	11.18	0.055	1.40
45544	4	0.476	12.09	0.055	1.40
45545	5	0.517	13.13	0.055	1.40
45547	7	0.579	14.71	0.065	1.65
45549	9	0.672	17.07	0.065	1.65

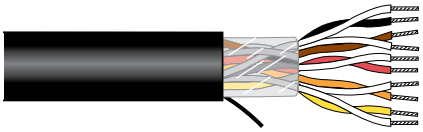
12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45552	2	0.456	11.58	0.055	1.40

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Unshielded, Multipair



18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45031	1	0.252	6.40	0.045	1.14
45032	2	0.353	8.97	0.045	1.14

UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- Chart B (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

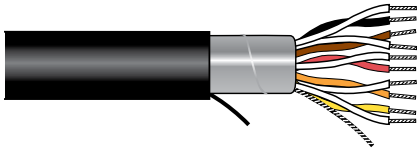
- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Foil Shield, Multipair



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 AWG)

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- Chart B (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45491	1	0.204	5.18	0.042	1.07
45492	2	0.276	7.01	0.042	1.07
45493	3	0.290	7.37	0.042	1.07
45494	4	0.314	7.98	0.042	1.07
45495	5	0.341	8.66	0.042	1.07
45496	6	0.370	9.40	0.042	1.07
45499	9	0.428	10.87	0.042	1.07
45499/11	11	0.459	11.66	0.042	1.07
45499/15	15	0.516	13.11	0.042	1.07
45499/27	27	0.679	17.25	0.053	1.35

* UL AWM 20237, CSA AWM I/II A/B FT1 only

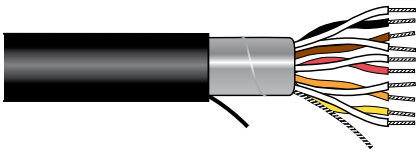
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45481	1	0.222	5.64	0.045	1.14
45482	2	0.301	7.65	0.045	1.14
45483	3	0.317	8.05	0.045	1.14
45484	4	0.344	8.74	0.045	1.14
45485	5	0.374	9.50	0.045	1.14
45486	6	0.425	10.80	0.055	1.40
45489	9	0.489	12.42	0.055	1.40
45489/11	11	0.525	13.34	0.055	1.40
45489/15	15	0.588	14.94	0.055	1.40

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Foil Shield, Multipair



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 AWG)

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- Chart B (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45451	1	0.238	6.05	0.045	1.14
45452	2	0.328	8.33	0.045	1.14
45453	3	0.346	8.79	0.045	1.14
45454	4	0.376	9.55	0.045	1.14
45455	5	0.430	10.92	0.055	1.40
45456	6	0.465	11.81	0.055	1.40
45459	9	0.537	13.64	0.055	1.40
45459/11	11	0.577	14.66	0.055	1.40
45459/15	15	0.668	16.97	0.065	1.65
45459/19	19	0.713	18.11	0.065	1.65
45459/27	27	0.885	22.48	0.065	1.65

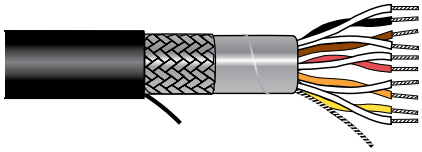
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45371	1	0.256	6.50	0.045	1.14
45372	2	0.357	9.07	0.045	1.14
45373	3	0.378	9.60	0.045	1.14
45374	4	0.432	10.97	0.055	1.40
45375	5	0.470	11.94	0.055	1.40
45376	6	0.510	12.95	0.055	1.40
45379	9	0.591	15.01	0.055	1.40
45379/11	11	0.656	16.66	0.065	1.65
45379/15	15	0.736	18.69	0.065	1.65
45379/19	19	0.787	19.99	0.065	1.65

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Supra-Shield® Foil + Braid, Multipair



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 AWG)

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- Chart B (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45271	1	0.228	5.79	0.042	1.07
45272	2	0.300	7.62	0.042	1.07
45273	3	0.314	7.98	0.042	1.07
45274	4	0.338	8.59	0.042	1.07
45275	5	0.365	9.27	0.042	1.07
45276	6	0.394	10.01	0.042	1.07
45279	9	0.452	11.48	0.042	1.07
45279/11	11	0.483	12.27	0.042	1.07
45279/15	15	0.540	13.72	0.042	1.07
45279/19	19	0.598	15.19	0.053	1.35

* UL AWM 20237, CSA AWM I/II A/B FT1 only

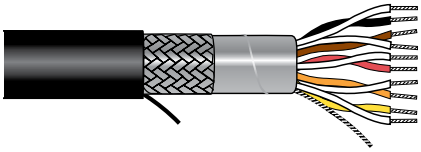
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45121	1	0.246	6.25	0.045	1.14
45122	2	0.325	8.26	0.045	1.14
45123	3	0.341	8.66	0.045	1.14
45124	4	0.368	9.35	0.045	1.14
45125	5	0.418	10.62	0.055	1.40
45126	6	0.449	11.40	0.055	1.40
45129	9	0.513	13.03	0.055	1.40
45129/11	11	0.549	13.94	0.055	1.40
45129/15	15	0.632	16.05	0.065	1.65
45129/19	19	0.677	17.20	0.065	1.65

Xtra-Guard® 4

Advanced Temperature and Chemical Performance 300 V Supra-Shield® Foil + Braid, Multipair



UL AWM 20237
UL PLTC
CSA AWM I/II A/B FT1
MSHA P-07-KA070017-MSHA
NEC Class 1, Div 2 (22 AWG)

Operating Temperature

- –50°C to 125°C

Conductor Color Coding

- Chart B (page 499)
- Nine jacket colors (black standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord

Availability

Made to order
1,000 ft (305 m) minimum

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45291	1	0.262	6.65	0.045	1.14
45292	2	0.352	8.94	0.045	1.14
45293	3	0.370	9.40	0.045	1.14
45294	4	0.420	10.67	0.055	1.40
45295	5	0.454	11.53	0.055	1.40
45296	6	0.489	12.42	0.055	1.40
45299	9	0.561	14.25	0.055	1.40
45299/11	11	0.621	15.77	0.065	1.65
45299/15	15	0.698	17.73	0.065	1.65

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
45131	1	0.280	7.11	0.045	1.14
45132	2	0.381	9.68	0.045	1.14
45133	3	0.422	10.72	0.055	1.40
45134	4	0.456	11.58	0.055	1.40
45135	5	0.494	12.55	0.055	1.40
45136	6	0.534	13.56	0.055	1.40
45139	9	0.635	16.13	0.065	1.65
45139/11	11	0.686	17.42	0.065	1.65
45139/15	15	0.766	19.46	0.065	1.65

Xtra-Guard® 5

Maximum Temperature and Chemical Performance





Features

- The preferred cable for unsurpassed maximum temperature and chemical performance
- Temperature range from -80°C to 200°C
- UL and CSA listed
- 100% impervious to all chemicals, solvents, acids, fuels, and water
- Suitable for Class 1 cleanrooms
- FDA food/medical grade (sterilizable)
- Low-friction FEP jacket for easy routing
- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- 300 V
- Unshielded, foil shielded, or Supra-Shield® foil + braid
- Outstanding ultraviolet light stability in all jacket colors
- Aramid fiber ripcord for easy jacket stripping
- Excellent flame resistance and low smoke generation: passes NFPA 262-2007

Applications

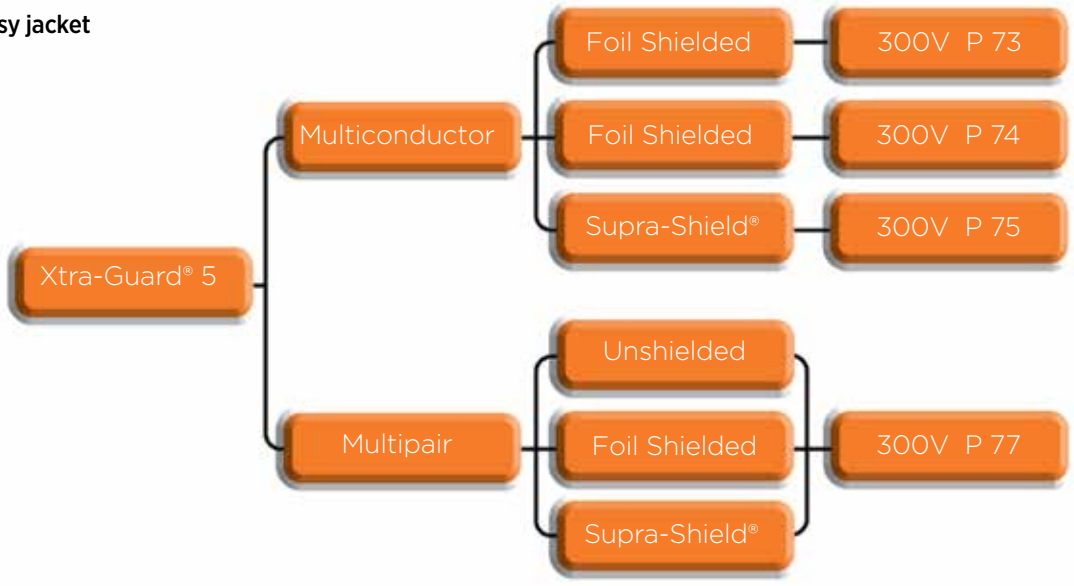
- Food and beverage wash-down
- Cleanroom environments
- Food/medical-grade applications
- Turbine generators
- Chemical processing
- Military electronics
- Mining instrumentation

FIT® Tubing Recommendations

- FIT-650: Chemical-/temperature-resistant flexible fluoroelastomer
- FIT-400: Temperature-/chemical-resistant FEP

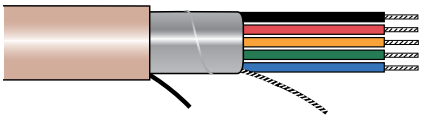
TAN	BEIGE	WHITE
RED	BLACK	BLUE
GREEN	YELLOW	ORANGE

Xtra-Guard 5 Cables are available in a range of long-lasting tints for fast, easy identification; for safety reasons; and matching the color of your system.



Xtra-Guard® 5

Maximum Temperature and Chemical Performance
300 V Foil Shielded, Multiconductor



UL AWM 20229
UL CMP
CSA CMP FT6

Operating Temperature

- –80°C to 200°C
- –80°C to 150°C (AWM, CMP)

Conductor Color Coding

- Chart E (page 503)
- Nine jacket tints (tan standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Aramid fiber ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55092	2	0.154	3.91	0.027	0.69
55093	3	0.161	4.09	0.027	0.69
55094	4	0.172	4.37	0.027	0.69
55096	6	0.199	5.05	0.027	0.69
55099	9	0.226	5.74	0.027	0.69
55100/12	12	0.249	6.32	0.027	0.69

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55192	2	0.166	4.22	0.027	0.69
55193	3	0.174	4.42	0.027	0.69
55194	4	0.187	4.75	0.027	0.69
55196	6	0.217	5.51	0.027	0.69
55199	9	0.248	6.30	0.027	0.69
55199/12	12	0.274	6.96	0.027	0.69

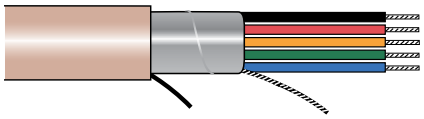
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55462	2	0.182	4.62	0.027	0.69
55463	3	0.191	4.85	0.027	0.69
55464	4	0.206	5.23	0.027	0.69
55466	6	0.241	6.12	0.027	0.69
55469	9	0.277	7.04	0.027	0.69
55470/12	12	0.307	7.80	0.027	0.69

Xtra-Guard® 5

Maximum Temperature and Chemical Performance
300 V Foil Shielded, Multiconductor



UL AWM 20229
UL CMP
CSA CMP FT6

Operating Temperature

- –80°C to 200°C
- –80°C to 150°C (AWM, CMP)

Conductor Color Coding

- Chart E (page 503)
- Nine jacket tints (tan standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Aramid fiber ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.90 mm²)

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55382	2	0.202	5.13	0.027	0.69
55383	3	0.213	5.41	0.027	0.69
55384	4	0.231	5.87	0.027	0.69
55386	6	0.271	6.88	0.027	0.69
55389	9	0.313	7.95	0.027	0.69
55390/12	12	0.349	8.86	0.027	0.69

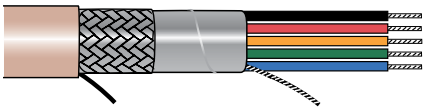
16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55362	2	0.224	5.69	0.027	0.69
55363	3	0.236	5.99	0.027	0.69
55364	4	0.257	6.53	0.027	0.69
55366	6	0.304	7.72	0.027	0.69
55369	9	0.353	8.97	0.027	0.69
55370/12	12	0.394	10.01	0.027	0.69

Xtra-Guard® 5

Maximum Temperature and Chemical Performance
300 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20229
UL CMP
CSA CMP FT6

Operating Temperature

- –80°C to 200°C
- –80°C to 150°C (AWM, CMP)

Conductor Color Coding

- Chart E (page 503)
- Nine jacket tints (tan standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Aramid fiber ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55112	2	0.176	4.47	0.027	0.69
55113	3	0.183	4.65	0.027	0.69
55114	4	0.194	4.93	0.027	0.69
55116	6	0.221	5.61	0.027	0.69
55119	9	0.248	6.30	0.027	0.69
55120/12	12	0.271	6.88	0.027	0.69

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55102	2	0.188	4.78	0.027	0.69
55103	3	0.196	4.98	0.027	0.69
55104	4	0.209	5.31	0.027	0.69
55106	6	0.239	6.07	0.027	0.69
55109	9	0.270	6.86	0.027	0.69
55110/12	12	0.296	7.52	0.027	0.69

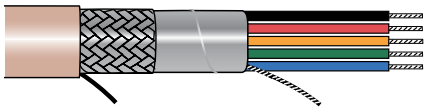
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55152	2	0.204	5.18	0.027	0.69
55153	3	0.213	5.41	0.027	0.69
55154	4	0.228	5.79	0.027	0.69
55156	6	0.263	6.68	0.027	0.69
55159	9	0.299	7.59	0.027	0.69
55160/12	12	0.329	8.36	0.027	0.69

Xtra-Guard® 5

Maximum Temperature and Chemical Performance
300 V Supra-Shield® Foil + Braid, Multiconductor



UL AWM 20229
UL CMP
CSA CMP FT6

Operating Temperature

- –80°C to 200°C
- –80°C to 150°C (AWM, CMP)

Conductor Color Coding

- Chart E (page 503)
- Nine jacket tints (tan standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Aramid fiber ripcord

Availability

Made to order
1,000 ft (305 m) minimum

18 AWG (0.90 mm²)

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55162	2	0.224	5.69	0.027	0.69
55163	3	0.235	5.97	0.027	0.69
55164	4	0.253	6.43	0.027	0.69
55166	6	0.293	7.44	0.027	0.69
55169	9	0.335	8.51	0.027	0.69
55170/12	12	0.371	9.42	0.027	0.69

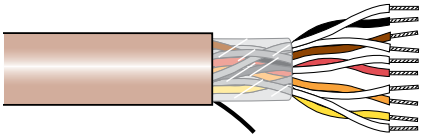
16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55172	2	0.246	6.25	0.027	0.69
55173	3	0.258	6.55	0.027	0.69
55174	4	0.279	7.09	0.027	0.69
55176	6	0.326	8.28	0.027	0.69
55179	9	0.375	9.53	0.027	0.69
55180/12	12	0.416	10.57	0.027	0.69

Xtra-Guard® 5

Maximum Temperature and Chemical Performance
300 V Unshielded, Multipair



UL AWM 20229
UL CMP
CSA CMP FT6

Operating Temperature

- –80°C to 200°C
- –80°C to 150°C (AWM, CMP)

Conductor Color Coding

- Chart A (page 499)
- Nine jacket tints (tan standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aramid fiber ripcord

Availability

Made to order
1,000 ft (305 m) minimum

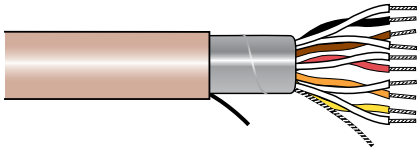
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55021	1	0.160	4.06	0.027	0.69
55022	2	0.224	5.69	0.027	0.69
55023	3	0.237	6.02	0.027	0.69
55026	6	0.307	7.80	0.027	0.69
55029	9	0.358	9.09	0.027	0.69
55029/12	12	0.401	10.19	0.027	0.69

Xtra-Guard® 5

Maximum Temperature and Chemical Performance
300 V Foil Shield, Multipair



UL AWM 20229
UL CMP
CSA CMP FT6

Operating Temperature

- –80°C to 200°C
- –80°C to 150°C (AWM, CMP)

Conductor Color Coding

- Chart A (page 499)
- Nine jacket tints (tan standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Aramid fiber ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55491	1	0.154	3.91	0.027	0.69
55492	2	0.210	5.33	0.027	0.69
55493	3	0.222	5.64	0.027	0.69
55496	6	0.284	7.21	0.027	0.69
55499	9	0.329	8.36	0.027	0.69
55499/11	11	0.355	9.02	0.027	0.69

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55481	1	0.166	4.22	0.027	0.69
55482	2	0.230	5.84	0.027	0.69
55483	3	0.243	6.17	0.027	0.69
55486	6	0.313	7.95	0.027	0.69
55489	9	0.364	9.25	0.027	0.69
55489/12	12	0.407	10.34	0.027	0.69

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55451	1	0.182	4.62	0.027	0.69
55452	2	0.256	6.50	0.027	0.69
55453	3	0.271	6.88	0.027	0.69
55455	5	0.324	8.23	0.027	0.69
55456	6	0.353	8.97	0.027	0.69
55459	9	0.412	10.46	0.027	0.69
55459/12	12	0.461	11.71	0.027	0.69

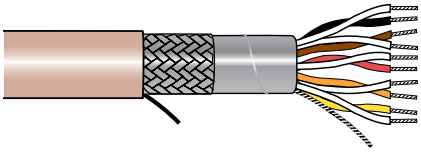
18 AWG (0.90 mm²)

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55371	1	0.202	5.13	0.027	0.69
55372	2	0.289	7.34	0.027	0.69
55373	3	0.306	7.77	0.027	0.69
55376	6	0.402	10.21	0.027	0.69
55379	9	0.472	11.99	0.027	0.69

Xtra-Guard® 5

Maximum Temperature and Chemical Performance
300 V Supra-Shield® Foil + Braid, Multipair



UL AWM 20229
UL CMP
CSA CMP FT6

Operating Temperature

- –80°C to 200°C
- –80°C to 150°C (AWM, CMP)

Conductor Color Coding

- Chart A (page 499)
- Nine jacket tints (tan standard)
- Custom colors available

Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Aramid fiber ripcord

Availability

Made to order
1,000 ft (305 m) minimum

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55271	1	0.176	4.47	0.027	0.69
55272	2	0.232	5.89	0.027	0.69
55273	3	0.244	6.20	0.027	0.69
55276	6	0.306	7.77	0.027	0.69
55279	9	0.351	8.92	0.027	0.69
55279/12	12	0.388	9.86	0.027	0.69

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55121	1	0.188	4.78	0.027	0.69
55122	2	0.252	6.40	0.027	0.69
55123	3	0.265	6.73	0.027	0.69
55126	6	0.335	8.51	0.027	0.69
55129	9	0.386	9.80	0.027	0.69
55129/12	12	0.429	10.90	0.027	0.69

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55291	1	0.204	5.18	0.027	0.69
55292	2	0.278	7.06	0.027	0.69
55293	3	0.293	7.44	0.027	0.69
55296	6	0.375	9.53	0.027	0.69
55299	9	0.434	11.02	0.027	0.69
55299/12	12	0.483	12.27	0.027	0.69

18 AWG (0.90 mm²)

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55131	1	0.224	5.69	0.027	0.69
55132	2	0.311	7.90	0.027	0.69
55133	3	0.328	8.33	0.027	0.69
55136	6	0.424	10.77	0.027	0.69
55139	9	0.504	12.80	0.032	0.81

Xtra-Guard® Flex Cables

Flexible/Flexing



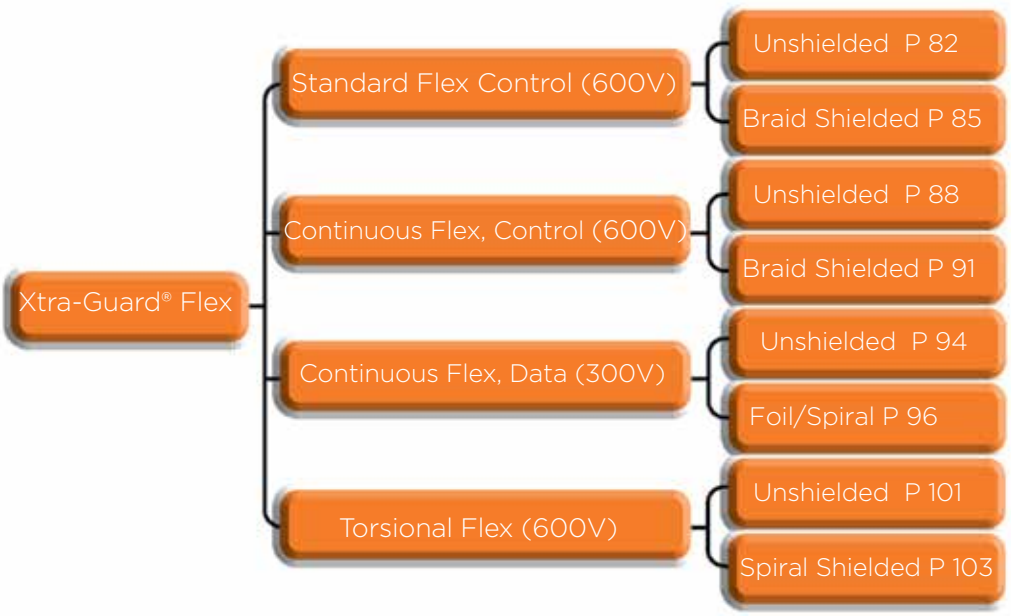


Meet a wide range of flexing needs with Xtra-Guard Flex Cables, from light flexing to continuous multi-axis flexing. These long-lasting flexible cables are designed to provide excellent performance in high-flex, high-torsion, and continuous flex applications, such as motion control and robotics.

FIT® Tubing Recommendations

- **FIT-FLEX: Highly flexible, cross-linked silicone rubber**
- **FIT-650: Chemical-/ temperature-resistant cross-linked fluoroelastomer**

Application	Xtra-Guard Cable	Voltage Rating	Flex Cycles
Light to moderate flexing	Xtra-Guard Standard Flex Control	600	1 million
Continuous flex control	Xtra-Guard Continuous Flex Control	600	14 million
Continuous flex data	Xtra-Guard Continuous Flex Data	300	6 million
Torsional flex	Xtra-Guard Torsional Flex	600	1 million



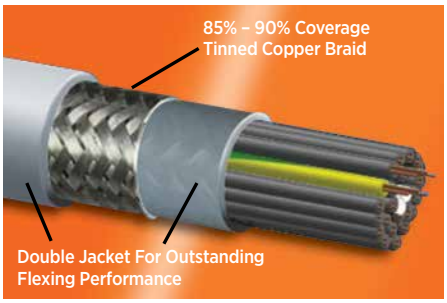
Xtra-Guard® Flex Cables

Flexible/Flexing

Xtra-Guard Cables are available in a variety of configurations to allow exactly the right cable to be selected for your flexing application. There are four common types of cable flexing movements to consider when designing and applying a high-flexing cable, and they are:

1 Rolling flex, such as C-track or Cartesian motions
2 Bending flex or "tic-toc," such as hinged panels
3 Torsional flex, such as twisting
4 Variable/random motion flex

Different cable construction methods and materials are used depending on the cable flexing movement. For example, torsional cables will have a different lay length than cabling from a rolling flex cable. The performance of a cable is evaluated using physical test data and statistical analysis to produce what is known as "flex life" and overall system reliability.

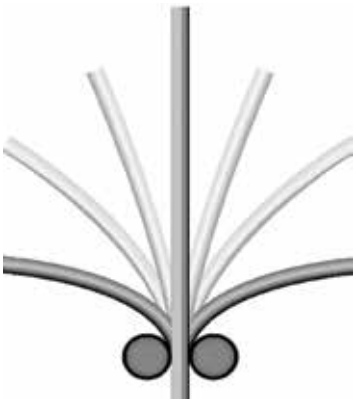


Our high-flex shielding options include a double-jacket configuration with 85% braid coverage to achieve high shielding effectiveness while maintaining the desired flexibility. For torsional flex applications, we offer spiral wound shielding with 90% coverage.



Rolling Flex

- Xtra-Guard Continuous Flex Control Cable (600 V)
- Xtra-Guard Continuous Flex Data Cable (300 V)



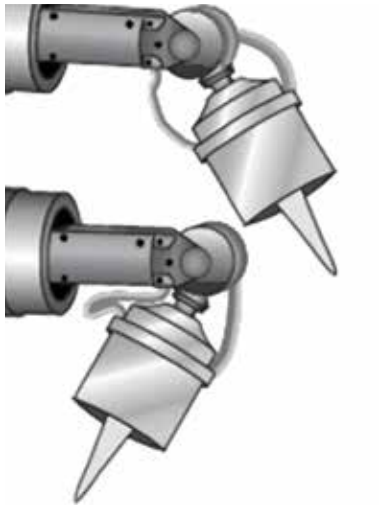
Bending Flex

- Xtra-Guard Standard Flex Cable (600 V)
- Xtra-Guard Continuous Flex Control Cable (600 V)
- Xtra-Guard Continuous Flex Data Cable (300 V)



Torsion Flex

- Xtra-Guard Torsional Flex Cable (600 V)



Variable/Random Flex

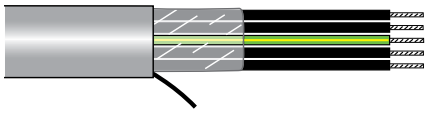
- Xtra-Guard Standard Flex Cable (600 V)
- Xtra-Guard Continuous Flex Control Cable (600 V)
- Xtra-Guard Continuous Flex Data Cable (300 V)

Applications

- Cartesian robots
- Articulated multi-axis robots
- Automation networking
- Machine tools
- Automotive assembly equipment
- Conveyor systems
- Control panels
- Flex and static track
- Transfer shuttles
- Sensor/actuator-to-controller connections
- Material-handling equipment

Xtra-Guard® Standard Flex Control Cable

Light to Moderate Flex Applications
600 V Unshielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- –5°C to 90°C (flexing)
- –40°C to 90°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor (3 conductor and greater)
- Jacket color: slate

Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
652602	2	0.202	5.13	0.035	0.89
652603	3	0.212	5.38	0.035	0.89
652604	4	0.229	5.82	0.035	0.89
652605	5	0.256	6.50	0.038	0.97
652607	7	0.272	6.91	0.038	0.97
652609	9	0.344	8.74	0.040	1.02
652612	12	0.348	8.84	0.040	1.02

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
652402	2	0.212	5.38	0.035	0.89
652403	3	0.223	5.66	0.035	0.89
652404	4	0.241	6.12	0.035	0.89
652405	5	0.270	6.86	0.038	0.97
652407	7	0.288	7.32	0.038	0.97
652409	9	0.364	9.25	0.040	1.02
652412	12	0.369	9.37	0.040	1.02
652418	18	0.442	11.23	0.045	1.14
652425	25	0.525	13.34	0.050	1.27

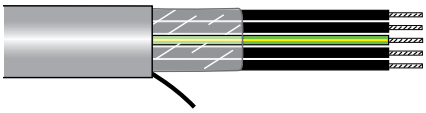
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
652202	2	0.224	5.69	0.035	0.89
652203	3	0.236	5.99	0.035	0.89
652204	4	0.255	6.45	0.035	0.89
652205	5	0.286	7.26	0.038	0.97
652207	7	0.306	7.77	0.038	0.97
652209	9	0.394	10.01	0.043	1.09

Xtra-Guard® Standard Flex Control Cable

Light to Moderate Flex Applications
600 V Unshielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- –5°C to 90°C (flexing)
- –40°C to 90°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor (3 conductor and greater)
- Jacket color: slate

Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.51 mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65002	2	0.238	6.05	0.035	0.89
65003	3	0.251	6.38	0.035	0.89
65004	4	0.272	6.91	0.035	0.89
65005	5	0.305	7.75	0.038	0.97
65007	7	0.327	8.31	0.038	0.97
65009	9	0.416	10.57	0.040	1.02
65012	12	0.433	11.00	0.045	1.14
65018	18	0.527	13.39	0.055	1.40
65025	25	0.615	15.62	0.055	1.40

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65802	2	0.258	6.55	0.035	0.89
65803	3	0.272	6.91	0.035	0.89
65804	4	0.296	7.52	0.035	0.89
65805	5	0.326	8.28	0.035	0.89
65807	7	0.351	8.92	0.035	0.89
65809	9	0.445	11.30	0.035	0.89
65812	12	0.470	11.94	0.043	1.09
65818	18	0.567	14.40	0.050	1.27
65825	25	0.666	16.92	0.050	1.27
65834	34	0.769	19.53	0.060	1.52
65841	41	0.835	21.21	0.063	1.60
65850	50	0.967	24.56	0.083	2.11

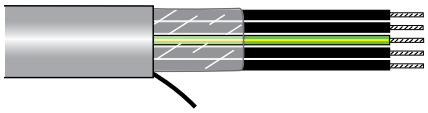
16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65602	2	0.284	7.21	0.035	0.89
65603	3	0.300	7.62	0.035	0.89
65604	4	0.328	8.33	0.035	0.89
65605	5	0.361	9.17	0.035	0.89
65607	7	0.390	9.91	0.035	0.89
65609	9	0.509	12.93	0.041	1.04
65612	12	0.536	13.61	0.049	1.24
65618	18	0.632	16.05	0.050	1.27
65625	25	0.756	19.20	0.055	1.40
65641	41	0.959	24.36	0.075	1.90
65650	50	1.079	27.41	0.083	2.11

Xtra-Guard® Standard Flex Control Cable

Light to Moderate Flex Applications
600 V Unshielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- –5°C to 90°C (flexing)
- –40°C to 90°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor (3 conductor and greater)
- Jacket color: slate

Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65402	2	0.330	8.38	0.044	1.12
65403	3	0.351	8.92	0.045	1.14
65404	4	0.404	10.26	0.055	1.40
65405	5	0.439	11.15	0.055	1.40
65407	7	0.479	12.17	0.058	1.47
65409	9	0.609	15.47	0.063	1.60
65412	12	0.667	16.94	0.085	2.16
65418	18	0.783	19.89	0.090	2.29
65425	25	0.953	24.21	0.110	2.79

12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65203	3	0.436	11.07	0.067	1.70
65204	4	0.500	12.70	0.080	2.03
65205	5	0.553	14.05	0.086	2.18
65207	7	0.592	15.04	0.086	2.18

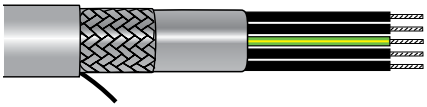
10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65103	3	0.516	13.11	0.080	2.03
65104	4	0.568	14.43	0.084	2.13
65105	5	0.629	15.98	0.090	2.29

Xtra-Guard® Standard Flex Control Cable

Light to Moderate Flex Applications
600 V Braid Shielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- –5°C to 90°C (flexing)
- –40°C to 90°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

Materials

- Finely stranded bare copper conductors
- Lubricated PVC Insulation
- Oil-resistant PVC jacket
- Tinned copper braid shield, 85% coverage

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65263CY	3	0.280	7.11	0.035	0.89
65264CY	4	0.297	7.54	0.035	0.89
65265CY	5	0.315	8.00	0.035	0.89
65267CY	7	0.334	8.48	0.035	0.89
652612CY	12	0.416	10.57	0.040	1.02

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65243CY	3	0.291	7.39	0.035	0.89
65244CY	4	0.309	7.85	0.035	0.89
65245CY	5	0.329	8.36	0.035	0.89
65247CY	7	0.350	8.89	0.035	0.89
652412CY	12	0.437	11.10	0.040	1.02
652418CY	18	0.506	12.85	0.040	1.02
652425CY	25	0.599	15.21	0.050	1.27

22 AWG (0.35 mm²)

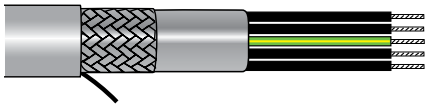
Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65223CY	3	0.304	7.72	0.035	0.89
65224CY	4	0.323	8.20	0.035	0.89
65225CY	5	0.345	8.76	0.035	0.89
65227CY	7	0.368	9.35	0.035	0.89

RoHS Compliant CA PROP 65

Xtra-Guard® Standard Flex Control Cable

Light to Moderate Flex Applications
600 V Braid Shielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- –5°C to 90°C (flexing)
- –40°C to 90°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

Materials

- Finely stranded bare copper conductors
- Lubricated PVC Insulation
- Oil-resistant PVC jacket
- Tinned copper braid shield, 85% coverage

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.51 mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65003CY	3	0.319	8.10	0.035	0.89
65007CY	7	0.389	9.88	0.035	0.89
65012CY	12	0.491	12.47	0.040	1.02
65025CY	25	0.686	17.42	0.050	1.27

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65803CY	3	0.340	8.63	0.035	0.89
65804CY	4	0.364	9.25	0.035	0.89
65805CY	5	0.394	10.01	0.035	0.89
65807CY	7	0.419	10.64	0.035	0.89
65812CY	12	0.548	13.92	0.045	1.14
65818CY	18	0.647	16.43	0.053	1.35
65825CY	25	0.763	19.38	0.053	1.35

16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65603CY	3	0.368	9.35	0.035	0.89
65604CY	4	0.396	10.06	0.035	0.89
65605CY	5	0.429	10.90	0.035	0.89
65607CY	7	0.458	11.63	0.035	0.89
65612CY	12	0.616	15.65	0.052	1.32
65618CY	18	0.747	18.97	0.062	1.57
65625CY	25	0.871	22.12	0.067	1.70

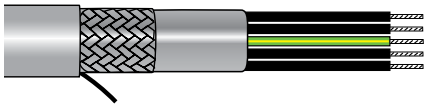
14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65403CY	3	0.413	10.49	0.042	1.07
65404CY	4	0.456	11.58	0.047	1.19
65405CY	5	0.501	12.73	0.052	1.32
65407CY	7	0.551	14.00	0.057	1.45
65412CY	12	0.695	17.65	0.062	1.57
65418CY	18	0.860	21.84	0.083	2.11

Xtra-Guard® Standard Flex Control Cable

Light to Moderate Flex Applications
600 V Braid Shielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- –5°C to 90°C (flexing)
- –40°C to 90°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

Materials

- Finely stranded bare copper conductors
- Lubricated PVC Insulation
- PVC inner jacket
- Oil-resistant PVC jacket
- Tinned copper braid shield, 85% coverage

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

12 AWG (3.31 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65203CY	3	0.490	12.45	0.060	1.52
65204CY	4	0.540	13.72	0.066	1.68
65205CY	5	0.601	15.27	0.073	1.85

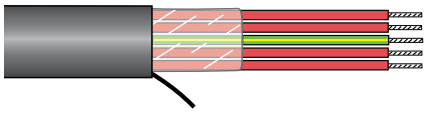
10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65103CY	3	0.570	14.48	0.070	1.78
65104CY	4	0.614	15.60	0.070	1.78
65105CY	5	0.677	17.20	0.077	1.96
65107CY	7	0.736	18.69	0.083	2.11

Xtra-Guard® Continuous Flex Control

C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles
600 V Unshielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- -5°C to 90°C (flexing)
- -40°C to 90°C (stationary)

Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

Materials

- Finely stranded tinned copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

26 AWG (0.14 mm²)

Stranding: 19/38 (19 x 0.10)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
852603	3	0.229	5.82	0.035	0.89
852604	4	0.248	6.30	0.035	0.89
852605	5	0.268	6.81	0.035	0.89
852607	7	0.311	7.90	0.035	0.89
852610	10	0.347	8.81	0.035	0.89

24 AWG (0.23 mm²)

Stranding: 19/36 (19 x 0.13)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
852403	3	0.240	6.10	0.035	0.89
852404	4	0.260	6.60	0.035	0.89
852405	5	0.282	7.16	0.035	0.89
852407	7	0.328	8.33	0.035	0.89
852410	10	0.377	9.58	0.040	1.02

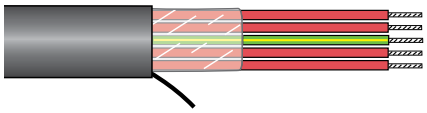
22 AWG (0.35 mm²)

Stranding: 41/38 (41 x 0.10)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
852203	3	0.251	6.38	0.035	0.89
852204	4	0.272	6.91	0.035	0.89
852205	5	0.295	7.49	0.035	0.89
852207	7	0.344	8.74	0.035	0.89
852210	10	0.397	10.08	0.040	1.02

Xtra-Guard® Continuous Flex Control

C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles
600 V Unshielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- -5°C to 90°C (flexing)
- -40°C to 90°C (stationary)

Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

Materials

- Finely stranded tinned copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.51 mm²)

Stranding: 63/38 (63 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85003	3	0.272	6.91	0.035	0.89
85004	4	0.297	7.54	0.035	0.89
85005	5	0.323	8.20	0.035	0.89
85007	7	0.388	9.86	0.040	1.02
85012	12	0.460	11.68	0.045	1.14
85018	18	0.548	13.92	0.050	1.27
85025	25	0.691	17.55	0.065	1.65
85034	34	0.746	18.95	0.065	1.65

18 AWG (0.85 mm²)

Stranding: 105/38 (105 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85803	3	0.298	7.57	0.035	0.89
85804	4	0.326	8.28	0.035	0.89
85805	5	0.355	9.02	0.035	0.89
85807	7	0.438	11.13	0.045	1.14
85812	12	0.520	13.21	0.050	1.27
85815	15	0.577	14.66	0.050	1.27
85818	18	0.608	15.44	0.050	1.27
85825	25	0.767	19.48	0.065	1.65
85834	34	0.830	21.08	0.065	1.65

16 AWG (1.36 mm²)

Stranding: 168/38 (168 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85603	3	0.331	8.41	0.035	0.89
85604	4	0.362	9.19	0.035	0.89
85605	5	0.396	10.06	0.035	0.89
85607	7	0.478	12.14	0.040	1.02
85612	12	0.573	14.55	0.045	1.14
85618	18	0.674	17.12	0.045	1.14
85625	25	0.862	21.89	0.065	1.65
85634	34	0.936	23.77	0.065	1.65
85650	50	1.161	29.49	0.085	2.16

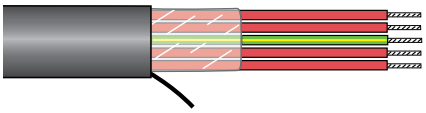
14 AWG (2.16 mm²)

Stranding: 266/38 (266 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85404	4	0.424	10.77	0.050	1.27
85407	7	0.582	14.78	0.070	1.78

Xtra-Guard® Continuous Flex Control

C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles
600 V Unshielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- -5°C to 90°C (flexing)
- -40°C to 90°C (stationary)

Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

Materials

- Finely stranded tinned copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

12 AWG (3.35 mm²)

Stranding: 413/38 (413 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85204	4	0.527	13.39	0.070	1.78
85207	7	0.729	18.52	0.100	2.54

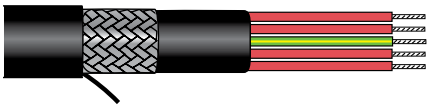
10 AWG (5.34 mm²)

Stranding: 658/38 (658 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85104	4	0.590	14.99	0.070	1.78
85107	7	0.816	20.73	0.100	2.54

Xtra-Guard® Continuous Flex Control

C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles
600 V Braid Shielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- -5°C to 90°C (flexing)
- -40°C to 90°C (stationary)

Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Tinned copper braid shield, 85% coverage
- PVC inner jacket
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

26 AWG (0.14 mm²)

Stranding: 19/38 (19 x 0.10)
Insulation thickness: 0.022 (.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85263CY	3	0.297	7.54	0.035	0.89
85264CY	4	0.316	8.03	0.035	0.89
85265CY	5	0.346	8.79	0.040	1.02
85267CY	7	0.389	9.88	0.040	1.02
852610CY	10	0.436	11.07	0.040	1.02

24 AWG (0.23 mm²)

Stranding: 19/36 (19 x 0.13)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85243CY	3	0.308	7.82	0.035	0.89
85244CY	4	0.328	8.33	0.035	0.89
85245CY	5	0.360	9.14	0.040	1.02
85247CY	7	0.406	10.31	0.040	1.02
852410CY	10	0.457	11.61	0.040	1.02

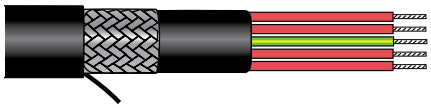
22 AWG (0.35 mm²)

Stranding: 41/38 (41 x 0.10)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85223CY	3	0.319	8.10	0.035	0.89
85224CY	4	0.340	8.64	0.035	0.89
85225CY	5	0.373	9.47	0.040	1.02
85227CY	7	0.422	10.72	0.040	1.02
852210CY	10	0.477	12.12	0.040	1.02

Xtra-Guard® Continuous Flex Control

C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles
600 V Braid Shielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- -5°C to 90°C (flexing)
- -40°C to 90°C (stationary)

Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Tinned copper braid shield, 85% coverage
- PVC inner jacket
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.51 mm²)

Stranding: 63/38 (63 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85003CY	3	0.340	8.63	0.035	0.89
85004CY	4	0.365	9.27	0.035	0.89
85005CY	5	0.401	10.19	0.040	1.02
85007CY	7	0.456	11.58	0.040	1.02
85010CY	10	0.525	13.34	0.040	1.02
85012CY	12	0.544	13.82	0.050	1.27
85018CY	18	0.642	16.31	0.060	1.52
85025CY	25	0792	20.12	0.070	1.78

18 AWG (0.85 mm²)

Stranding: 105/38 (105 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85803CY	3	0.366	9.30	0.035	0.89
85804CY	4	0.404	10.26	0.040	1.02
85805CY	5	0.433	11.00	0.040	1.02
85807CY	7	0.512	13.00	0.045	1.14
85812CY	12	0.614	15.60	0.060	1.52
85818CY	18	0.709	18.01	0.060	1.52
85825CY	25	0.888	22.56	0.080	2.03

16 AWG (1.36 mm²)

Stranding: 168/38 (168 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85603CY	3	0.399	10.13	0.035	0.89
85604CY	4	0.440	11.18	0.040	1.02
85605CY	5	0.474	12.04	0.040	1.02
85607CY	7	0.582	14.78	0.055	1.40
85612CY	12	0.677	17.20	0.060	1.52
85615CY	15	0.759	19.28	0.060	1.52
85618CY	18	0.795	20.19	0.060	1.52
85625CY	25	0.953	24.21	0.065	1.65
85634CY	34	1.067	27.10	0.085	2.16

14 AWG (2.16 mm²)

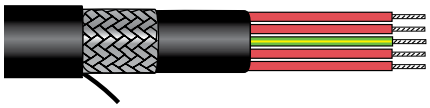
Stranding: 266/38 (266 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85404CY	4	0.492	12.50	0.050	1.27
85407CY	7	0.646	16.41	0.065	1.65

RoHS Compliant CA PROP 65

Xtra-Guard® Continuous Flex Control

C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles
600 V Braid Shielded, Multiconductor



UL AWM 2587
CSA AWM I/II A/B FT1
CE

Operating Temperature

- -5°C to 90°C (flexing)
- -40°C to 90°C (stationary)

Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Tinned copper braid shield, 85% coverage
- PVC inner jacket
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

12 AWG (3.35 mm²)

Stranding: 413/38 (413 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85204CY	4	0.611	15.52	0.075	1.90
85207CY	7	0.820	20.83	0.100	2.54

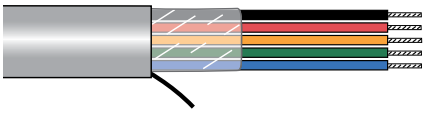
10 AWG (5.34 mm²)

Stranding: 658/38 (658 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85104CY	4	0.664	16.87	0.070	1.78
85107CY	7	0.907	23.04	0.100	2.54

Xtra-Guard® Continuous Flex Data

C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
300 V Unshielded, Multiconductor



UL CM
UL AWM 2661
CSA AWM I/II A/B FT4
CSA CMG
CE

Operating Temperature

- 5°C to 105°C (flexing)
- -10°C to 105°C (stationary)

Conductor Color Coding

- Chart D (page 502)
- Jacket color: slate

Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86002	2	0.154	3.91	0.040	1.02
86003	3	0.160	4.06	0.040	1.02
86004	4	0.170	4.32	0.040	1.02
86005	5	0.180	4.57	0.040	1.02
86007	7	0.203	5.16	0.040	1.02
86012	12	0.263	6.68	0.040	1.02
86018	18	0.262	6.65	0.040	1.02
86025	25	0.309	7.85	0.040	1.02

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86102	2	0.162	4.11	0.040	1.02
86103	3	0.168	4.27	0.040	1.02
86104	4	0.179	4.55	0.040	1.02
86105	5	0.191	4.85	0.040	1.02
86107	7	0.217	5.51	0.040	1.02
86112	12	0.283	7.19	0.040	1.02
86118	18	0.282	7.16	0.040	1.02
86125	25	0.335	8.51	0.040	1.02

24 AWG (0.20 mm²)

Stranding: 10/34 (10 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86202	2	0.172	4.37	0.040	1.02
86203	3	0.179	4.55	0.040	1.02
86204	4	0.191	4.85	0.040	1.02
86205	5	0.205	5.21	0.040	1.02
86207	7	0.233	5.92	0.040	1.02
86212	12	0.307	7.80	0.040	1.02
86218	18	0.307	7.80	0.040	1.02
86225	25	0.376	9.55	0.045	1.14

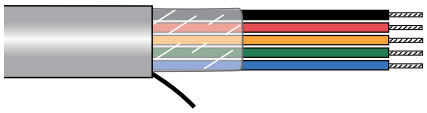
22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86302	2	0.188	4.78	0.040	1.02
86303	3	0.197	5.00	0.040	1.02
86304	4	0.211	5.36	0.040	1.02
86305	5	0.227	5.77	0.040	1.02
86307	7	0.260	6.60	0.040	1.02
86312	12	0.347	8.81	0.040	1.02
86318	18	0.347	8.81	0.040	1.02
86325	25	0.426	10.82	0.045	1.14

Xtra-Guard® Continuous Flex Data

C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
300 V Unshielded, Multiconductor



UL CM
UL AWM 2661
CSA AWM I/II A/B FT4
CSA CMG
CE

Operating Temperature

- 5°C to 105°C (flexing)
- -10°C to 105°C (stationary)

Conductor Color Coding

- Chart D (page 502)
- Jacket color: slate

Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.56 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.01 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
862002	2	0.204	5.18	0.040	1.02
862003	3	0.214	5.44	0.040	1.02
862004	4	0.230	5.84	0.040	1.02
862005	5	0.248	6.30	0.040	1.02
862007	7	0.293	7.44	0.043	1.09
862012	12	0.340	8.64	0.043	1.09

18 AWG (0.81 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.01 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
861802	2	0.210	5.33	0.040	1.02
861803	3	0.220	5.59	0.040	1.02
861804	4	0.237	6.02	0.040	1.02
861805	5	0.257	6.53	0.040	1.02
861807	7	0.303	7.70	0.043	1.09
861812	12	0.352	9.84	0.043	1.09

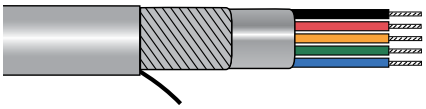
16 AWG (1.23 mm²)

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.01 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
861602	2	0.236	5.99	0.040	1.02
861603	3	0.248	6.30	0.040	1.02
861604	4	0.275	6.99	0.043	1.09
861605	5	0.298	7.57	0.043	1.09
861607	7	0.346	8.79	0.043	1.09
861612	12	0.426	10.82	0.053	1.35

Xtra-Guard® Continuous Flex Data

C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
300 V Foil + Spiral Shield, Multiconductor



UL CM
UL AWM 2661
CSA AWM I/II A/B FT4
CSA CMG
CE

Operating Temperature

- 5°C to 105°C (flexing)
- -10°C to 105°C (stationary)

Conductor Color Coding

- Chart D (page 502)
- Jacket color: slate

Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Foil + spiral shield Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Tinned copper spiral shield, 90% coverage
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86002CY	2	0.174	4.42	0.040	1.02
86003CY	3	0.180	4.57	0.040	1.02
86004CY	4	0.190	4.83	0.040	1.02
86005CY	5	0.200	5.08	0.040	1.02
86007CY	7	0.223	5.66	0.040	1.02
86012CY	12	0.283	7.19	0.040	1.02
86018CY	18	0.282	7.16	0.040	1.02
86025CY	25	0.329	8.36	0.040	1.02

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86102CY	2	0.182	4.62	0.040	1.02
86103CY	3	0.188	4.78	0.040	1.02
86104CY	4	0.199	5.05	0.040	1.02
86105CY	5	0.211	5.36	0.040	1.02
86107CY	7	0.237	6.02	0.040	1.02
86112CY	12	0.303	7.70	0.040	1.02
86118CY	18	0.302	7.67	0.040	1.02
86125CY	25	0.355	9.02	0.040	1.02

24 AWG (0.20 mm²)

Stranding: 10/34 (10 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86202CY	2	0.192	4.88	0.040	1.02
86203CY	3	0.199	5.05	0.040	1.02
86204CY	4	0.211	5.36	0.040	1.02
86205CY	5	0.225	5.72	0.040	1.02
86207CY	7	0.253	6.43	0.040	1.02
86212CY	12	0.327	8.31	0.040	1.02
86218CY	18	0.327	8.31	0.040	1.02
86225CY	25	0.396	10.06	0.045	1.14

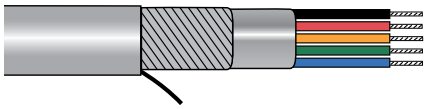
22 AWG (0.38 mm2)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86302CY	2	0.208	5.28	0.040	1.02
86303CY	3	0.217	5.51	0.040	1.02
86304CY	4	0.231	5.87	0.040	1.02
86305CY	5	0.247	6.27	0.040	1.02
86307CY	7	0.280	7.11	0.040	1.02
86312CY	12	0.367	9.32	0.040	1.02
86318CY	18	0.367	9.32	0.040	1.02
86325CY	25	0.446	11.33	0.045	1.14

Xtra-Guard® Continuous Flex Data

C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
300 V Foil + Spiral Shield, Multiconductor



UL CM
UL AWM 2661
CSA AWM I/II A/B FT4
CSA CMG
CE

Operating Temperature

- 5°C to 105°C (flexing)
- -10°C to 105°C (stationary)

Conductor Color Coding

- Chart D (page 502)
- Jacket color: slate

Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Foil + spiral shield Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Tinned copper spiral shield, 90% coverage
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.56 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.01 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
862002CY	2	0.224	5.69	0.040	1.02
862003CY	3	0.234	5.94	0.040	1.02
862004CY	4	0.250	6.35	0.040	1.02
862005CY	5	0.268	6.81	0.040	1.02
862007CY	7	0.313	7.95	0.043	1.09
8620012CY	12	0.360	9.14	0.043	1.09

18 AWG (0.81 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.01 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86182CY	2	0.230	5.84	0.040	1.02
86183CY	3	0.240	6.10	0.040	1.02
86184CY	4	0.257	6.53	0.040	1.02
86185CY	5	0.283	7.19	0.043	1.09
86187CY	7	0.323	8.20	0.043	1.09
861812CY	12	0.372	9.45	0.043	1.09

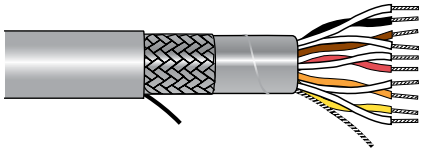
16 AWG (1.23 mm²)

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.01 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86162CY	2	0.256	6.50	0.040	1.02
86163CY	3	0.274	6.96	0.043	1.09
86164CY	4	0.295	7.49	0.043	1.09
86165CY	5	0.318	8.08	0.043	1.09
86167CY	7	0.366	9.30	0.043	1.09
861612CY	12	0.446	11.33	0.053	1.35

Xtra-Guard® Continuous Flex Data

C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
300 V Foil + Braid Shield, Multipair



UL CM
UL AWM 2661
CSA AWM I/II A/B FT4
CSA CMG
CE

Operating Temperature

- 5°C to 105°C (flexing)
- -10°C to 105°C (stationary)

Conductor Color Coding

- Chart A (page 499)
- Jacket color: slate

Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Shield: Combination foil and braid Aluminum/polyester foil shield, with 25% overlap and tinned copper drain wire Tinned copper braid with 85% coverage
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86401CY	1	0.186	4.72	0.040	1.02
86402CY	2	0.231	5.87	0.040	1.02
86403CY	3	0.240	6.10	0.040	1.02
86404CY	4	0.256	6.50	0.040	1.02
86405CY	5	0.274	6.96	0.040	1.02
86406CY	6	0.293	7.44	0.040	1.02
86408CY	8	0.331	8.41	0.040	1.02
86410CY	10	0.365	9.27	0.045	1.14
86414CY	14	0.381	9.68	0.045	1.14

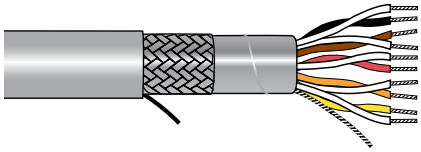
26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86501CY	1	0.194	4.93	0.040	1.02
86502CY	2	0.244	6.20	0.040	1.02
86503CY	3	0.254	6.45	0.040	1.02
86504CY	4	0.272	6.91	0.040	1.02
86505CY	5	0.292	7.42	0.040	1.02
86506CY	6	0.313	7.95	0.040	1.02
86508CY	8	0.355	9.02	0.040	1.02
86510CY	10	0.392	9.96	0.045	1.14
86514CY	14	0.426	10.82	0.053	1.35

Xtra-Guard® Continuous Flex Data

C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
300 V Foil + Braid Shield, Multipair



UL CM
UL AWM 2661
CSA AWM I/II A/B FT4
CSA CMG
CE

Operating Temperature

- 5°C to 105°C (flexing)
- -10°C to 105°C (stationary)

Conductor Color Coding

- Chart A (page 499)
- Jacket color: slate

Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Shield: Combination foil and braid Aluminum/polyester foil shield, with 25% overlap and tinned copper drain wire, Tinned copper braid with 85% coverage
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

24 AWG (0.20 mm²)

Stranding: 10/34 (10 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86601CY	1	0.204	5.18	0.040	1.02
86602CY	2	0.260	6.60	0.040	1.02
86603CY	3	0.272	6.91	0.040	1.02
86604CY	4	0.292	7.42	0.040	1.02
86605CY	5	0.314	7.98	0.040	1.02
86606CY	6	0.337	8.56	0.040	1.02
86608CY	8	0.385	9.78	0.040	1.02
86610CY	10	0.427	10.85	0.045	1.14
86614CY	14	0.463	11.76	0.053	1.35

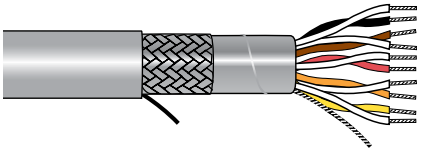
22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86701CY	1	0.220	5.59	0.040	1.02
86702CY	2	0.287	7.29	0.040	1.02
86703CY	3	0.301	7.65	0.040	1.02
86704CY	4	0.324	8.23	0.040	1.02
86705CY	5	0.350	8.89	0.040	1.02
86706CY	6	0.377	9.58	0.040	1.02
86708CY	8	0.443	11.25	0.045	1.14
86710CY	10	0.497	12.62	0.053	1.35
86714CY	14	0.527	13.39	0.053	1.35

Xtra-Guard® Continuous Flex Data

C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
300 V Foil + Braid Shield, Multipair



UL CM
UL AWM 2661
CSA AWM I/II A/B FT4
CSA CMG
CE

Operating Temperature

- 5°C to 105°C (flexing)
- -10°C to 105°C (stationary)

Conductor Color Coding

- Chart A (page 499)
- Jacket color: slate

Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Shield: Combination foil and braid Aluminum/polyester foil shield, with 25% overlap and tinned copper drain wire Tinned copper braid with 85% coverage
- Oil-resistant PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.56 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.01 (0.25 mm)

Part No.	pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
8672001CY	1	0.236	5.99	0.040	1.02
8672002CY	2	0.319	8.10	0.043	1.09
8672003CY	3	0.335	8.51	0.043	1.09
8672004CY	4	0.362	9.19	0.043	1.09
8672005CY	5	0.412	10.46	0.053	1.35
8672006CY	6	0.443	11.25	0.053	1.35
8672008CY	8	0.513	13.03	0.053	1.35

18 AWG (0.81 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.01 (0.25 mm)

Part No.	pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
8671801CY	1	0.242	6.15	0.040	1.02
8671802CY	2	0.329	8.36	0.043	1.09
8671803CY	3	0.345	8.76	0.043	1.09
8671804CY	4	0.374	9.50	0.043	1.09
8671805CY	5	0.425	10.80	0.053	1.35
8671806CY	6	0.458	11.63	0.053	1.35
8671808CY	8	0.531	13.49	0.053	1.35

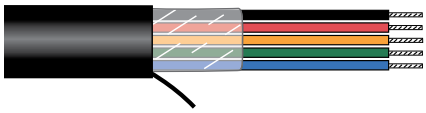
16 AWG (1.23 mm²)

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.01 (0.25 mm)

Part No.	pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
8671601CY	1	0.274	6.96	0.043	1.09
8671602CY	2	0.371	9.42	0.043	1.09
8671603CY	3	0.411	10.44	0.053	1.35
8671604CY	4	0.445	11.30	0.053	1.35
8671605CY	5	0.483	12.27	0.053	1.35
8671606CY	6	0.528	13.41	0.053	1.35
8671608CY	8	0.629	15.98	0.063	1.6

Xtra-Guard® Torsional Flex

Torsional Cable with 360° Twisting
600 V Unshielded, Multiconductor



UL AWM 20234
CSA AWM I/II A/B FT1
CE

Operating Temperature

- -10°C to 80°C (flexing)
- -30°C to 80°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Oil-resistant polyurethane jacket

Availability

Bulk, cut to length

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87003	3	0.227	5.77	0.050	1.27
87004	4	0.242	6.15	0.050	1.27
87005	5	0.259	6.58	0.050	1.27
87007	7	0.294	7.47	0.050	1.27

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87103	3	0.244	6.20	0.050	1.27
87104	4	0.261	6.63	0.050	1.27
87105	5	0.281	7.14	0.050	1.27
87107	7	0.321	8.15	0.050	1.27

20 AWG (0.62 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87203	3	0.262	6.65	0.050	1.27
87204	4	0.281	7.14	0.050	1.27
87205	5	0.302	7.67	0.050	1.27
87207	7	0.347	8.81	0.050	1.27

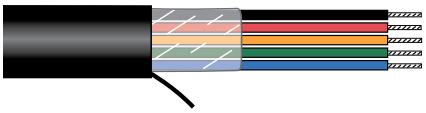
18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87303	3	0.283	7.19	0.050	1.27
87304	4	0.305	7.75	0.050	1.27
87305	5	0.329	8.36	0.050	1.27
87307	7	0.380	9.65	0.050	1.27

Xtra-Guard® Torsional Flex

Torsional Cable with 360° Twisting
600 V Unshielded, Multiconductor



UL AWM 20234
CSA AWM I/II A/B FT1
CE

Operating Temperature

- -10°C to 80°C (flexing)
- -30°C to 80°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Oil-resistant polyurethane jacket

Availability

Bulk, cut to length

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87403	3	0.302	7.67	0.050	1.27
87404	4	0.327	8.31	0.050	1.27
87405	5	0.354	8.99	0.050	1.27
87407	7	0.410	10.41	0.050	1.27

14 AWG (2.07 mm²)

Stranding: 19/0.0147 (19 x 0.37 mm)
Insulation thickness: 0.027 (0.69 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87503	3	0.382	9.70	0.050	1.27
87504	4	0.417	10.59	0.050	1.27
87505	5	0.455	11.56	0.050	1.27
87507	7	0.535	13.59	0.050	1.27

12 AWG (3.29 mm²)

Stranding: 19/0.0185 (19 x 0.47 mm)
Insulation thickness: 0.027 (0.69 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87603	3	0.444	11.28	0.060	1.52
87604	4	0.483	12.27	0.060	1.52
87605	5	0.526	13.36	0.060	1.52
87607	7	0.618	15.70	0.060	1.52

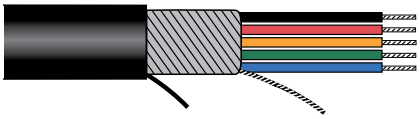
10 AWG (5.22 mm²)

Stranding: 37/0.0167 (37 x 0.42 mm)
Insulation thickness: 0.030 (0.76 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87703	3	0.508	12.90	0.060	1.52
87704	4	0.555	14.10	0.060	1.52
87705	5	0.627	15.93	0.070	1.78
87707	7	0.737	18.72	0.070	1.78

Xtra-Guard® Torsional Flex

Torsional Cable with 360° Twisting
600 V Shielded, Multiconductor



UL AWM 20234
CSA AWM I/II A/B FT1
CE

Operating Temperature

- -10°C to 80°C (flexing)
- -30°C to 80°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Tinned copper spiral shield, 90% coverage
- Oil-resistant polyurethane jacket

Availability

Bulk, cut to length

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87003CY	3	0.246	6.25	0.050	1.27
87004CY	4	0.261	6.63	0.050	1.27
87005CY	5	0.278	7.06	0.050	1.27
87007CY	7	0.313	7.95	0.050	1.27

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87103CY	3	0.263	6.68	0.050	1.27
87104CY	4	0.280	7.11	0.050	1.27
87105CY	5	0.300	7.62	0.050	1.27
87107CY	7	0.340	8.64	0.050	1.27

20 AWG (0.62 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87203CY	3	0.281	7.14	0.050	1.27
87204CY	4	0.300	7.62	0.050	1.27
87205CY	5	0.321	8.15	0.050	1.27
87207CY	7	0.366	9.30	0.050	1.27

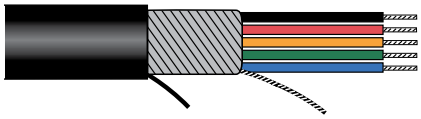
18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87303CY	3	0.302	7.67	0.050	1.27
87304CY	4	0.324	8.23	0.050	1.27
87305CY	5	0.348	8.84	0.050	1.27
87307CY	7	0.399	10.13	0.050	1.27

Xtra-Guard® Torsional Flex

Torsional Cable with 360° Twisting
600 V Shielded, Multiconductor



UL AWM 20234
CSA AWM I/II A/B FT1
CE

Operating Temperature

- -10°C to 80°C (flexing)
- -30°C to 80°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Tinned copper spiral shield, 90% coverage
- Oil-resistant polyurethane jacket

Availability

Bulk, cut to length

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87403CY	3	0.321	8.15	0.050	1.27
87404CY	4	0.346	8.79	0.050	1.27
87405CY	5	0.373	9.47	0.050	1.27
87407CY	7	0.429	10.90	0.050	1.27

14 AWG (2.07 mm²)

Stranding: 19/0.0147 (19 x 0.37 mm)
Insulation thickness: 0.027 (0.69 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87503CY	3	0.401	10.19	0.050	1.27
87504CY	4	0.436	11.07	0.050	1.27
87505CY	5	0.474	12.04	0.050	1.27
87507CY	7	0.554	14.07	0.050	1.27

12 AWG (3.29 mm²)

Stranding: 19/0.0185 (19 x 0.47 mm)
Insulation thickness: 0.027 (0.69 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87603CY	3	0.463	11.76	0.060	1.52
87604CY	4	0.502	12.75	0.060	1.52
87605CY	5	0.545	13.84	0.060	1.52
87607CY	7	0.637	16.18	0.060	1.52

10 AWG (5.22 mm²)

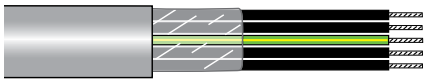
Stranding: 37/0.0167 (37 x 0.42 mm)
Insulation thickness: 0.030 (0.76 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87703CY	3	0.527	13.39	0.060	1.52
87704CY	4	0.574	14.58	0.060	1.52
87705CY	5	0.646	16.41	0.070	1.78
87707CY	7	0.756	19.20	0.070	1.78

RoHS Compliant CA PROP 65

Xtra-Guard® Flex TPE

600 V Unshielded, Multiconductor, PVC/Nylon, TPE, 1M flex cycles



UL PLTC (Except 10AWG)
AWM Style 20626 (20 AWG only)
TC (18 AWG and below)
CSA AWM I/II A/B FT4

Operating Temperature

- -5°C to 90°C (flexing)
- -30°C to 90°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

Materials

- Stranded bare copper conductors
- PVC/Nylon insulation
- TPE jacket

Bending Radius

- 8 x OD

Availability

100 ft (30.5 m)
1,000 ft (305 m)

20 AWG (0.51mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
902002	2	0.253	6.43	0.040	1.02
902003	3	0.265	6.73	0.040	1.02
902004	4	0.296	7.52	0.045	1.14
902005	5	0.319	8.10	0.045	1.14
902007	7	0.343	8.71	0.045	1.14
902009	9	0.413	10.49	0.055	1.40
902012	12	0.453	11.51	0.055	1.40

18 AWG (0.96mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
901802	2	0.299	7.59	0.050	1.27
901803	3	0.313	7.95	0.050	1.27
901804	4	0.338	8.59	0.050	1.27
901805	5	0.365	9.27	0.050	1.27
901807	7	0.393	9.98	0.050	1.27
901809	9	0.450	11.43	0.050	1.27
901812	12	0.497	12.62	0.050	1.27

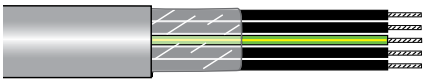
16 AWG (1.32mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
901602	2	0.319	8.10	0.050	1.27
901603	3	0.335	8.51	0.050	1.27
901604	4	0.362	9.19	0.050	1.27
901605	5	0.392	9.96	0.050	1.27
901607	7	0.423	10.74	0.050	1.27
901609	9	0.487	12.37	0.050	1.27
901612	12	0.569	14.45	0.065	1.65

Xtra-Guard® Flex TPE

600 V Unshielded, Multiconductor, PVC/Nylon, TPE, 1M flex cycles



UL PLTC (Except 10AWG)
AWM Style 20626 (20 AWG only)
TC (18 AWG and below)
CSA AWM I/II A/B FT4

Operating Temperature

- -5°C to 90°C (flexing)
- -30°C to 90°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

Materials

- Stranded bare copper conductors
- PVC/Nylon insulation
- TPE jacket

Bending Radius

- 8 x OD

Availability

100 ft (30.5 m)
1,000 ft (305 m)

14 AWG (2.08mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
901402	2	0.347	8.81	0.050	1.27
901403	3	0.365	9.27	0.050	1.27
901404	4	0.396	10.06	0.050	1.27
901405	5	0.430	10.92	0.050	1.27
901407	7	0.465	11.81	0.050	1.27
901409	9	0.568	14.43	0.065	1.65
901412	12	0.627	15.93	0.065	1.65

12 AWG (3.29mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
901203	3	0.406	10.31	0.050	1.27
901204	4	0.442	11.23	0.050	1.27
901205	5	0.481	12.22	0.050	1.27

10 AWG (5.32mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
901003	3	0.486	12.34	0.050	1.27
901004	4	0.561	14.25	0.065	1.65
901005	5	0.612	15.54	0.065	1.65

RoHS Compliant CA PROP 65

Xtra-Guard® Flex TPE

600 V Braid shield, Multiconductor, PVC/Nylon, TPE, 1M flex cycles



UL PLTC (Except 10AWG)
AWM Style 20626 (20 AWG only)
TC (18 AWG and below)
CSA AWM I/II A/B FT4

Operating Temperature

- -5°C to 90°C (flexing)
- -30°C to 90°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

Materials

- Stranded bare copper conductors
- PVC/Nylon insulation
- Tinned Copper Braid Shield, 85% converage min.
- TPE jacket

Bending Radius

- 8 x OD

Availability

100 ft (30.5 m)
1,000 ft (305 m)

20 AWG (0.51mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
902003CY	3	0.297	7.54	0.045	1.14
902004CY	4	0.318	8.08	0.045	1.14
902005CY	5	0.341	8.66	0.045	1.14
902007CY	7	0.365	9.27	0.045	1.14
902009CY	9	0.435	11.05	0.055	1.40
902012CY	12	0.475	12.06	0.055	1.40

18 AWG (0.96mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
901803CY	3	0.335	8.51	0.050	1.27
901804CY	4	0.360	9.14	0.050	1.27
901805CY	5	0.387	9.83	0.050	1.27
901807CY	7	0.415	10.54	0.050	1.27
901809CY	9	0.472	11.99	0.050	1.27
901812CY	12	0.555	14.10	0.065	1.65

16 AWG (1.32mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
901603CY	3	0.335	8.51	0.050	1.27
901604CY	4	0.362	9.19	0.050	1.27
901605CY	5	0.392	9.96	0.050	1.27
901607CY	7	0.423	10.74	0.050	1.27
901609CY	9	0.487	12.37	0.050	1.27
901612CY	12	0.569	14.45	0.065	1.65

Xtra-Guard® Flex TPE

600 V Braid shield, Multiconductor, PVC/Nylon, TPE, 1M flex cycles



UL PLTC (Except 10AWG)
AWM Style 20626 (20 AWG only)
TC (18 AWG and below)
CSA AWM I/II A/B FT4

Operating Temperature

- -5°C to 90°C (flexing)
- -30°C to 90°C (stationary)

Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

Materials

- Stranded bare copper conductors
- PVC/Nylon insulation
- Tinned Copper Braid Shield, 85% converage min.
- TPE jacket

Bending Radius

- 8 x OD

Availability

100 ft (30.5 m)
1,000 ft (305 m)

14 AWG (2.08mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
901403CY	3	0.387	9.83	0.050	1.27
901404CY	4	0.418	10.62	0.050	1.27
901405CY	5	0.452	11.48	0.050	1.27
901407CY	7	0.487	12.37	0.050	1.27
901409CY	9	0.596	15.14	0.065	1.65
901412CY	12	0.655	16.64	0.065	1.65

12 AWG (3.29mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
901203CY	3	0.428	10.87	0.050	1.27
901204CY	4	0.464	11.79	0.050	1.27
901205CY	5	0.509	12.93	0.050	1.27

10 AWG (5.32mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
901003CY	3	0.544	13.82	0.065	1.65
901004CY	4	0.589	14.96	0.065	1.65
901005CY	5	0.640	16.26	0.065	1.65

RoHS Compliant CA PROP 65

EcoGen™ Cable



Medical Equipment

Industrial Automation

Semi-Conductor Equipment

Aerospace and Defence

New Energy

Consumer Electronics

EcoGen®

Unique Material

Alpha's EcoGen family of wire and cable combines better performance with minimum environmental impact. Each member of the EcoGen family derives its advantages from modified polyphenylene ether (mPPE) jacketing and insulation. EcoGen is:

- Zero halogen
- Recyclable
- Capable of handling temperatures extremes down to -50°C
- Up to 47% smaller and 65% lighter with 91% lower outgassing compared to PVC

Environmentally Friendly

EcoGen products contain no halogens, phthalates, or heavy metals. The mPPE thermoplastic insulation and jacketing can be easily recycled. They meet RoHS and WEEE requirements for the elimination of hazardous substances and recyclability.

Low Specific Gravity

The 1.03 specific gravity of mPPE is 25% to 40% lower than other insulation materials, such as PVC, polyethylene, and cross-linked polyethylene. Along with reduced wall thickness, the low specific gravity yields significant weight savings of up to 65% with EcoCable.

Better Dielectric Strength

The superior dielectric properties of mPPE make a reduced wall thickness possible, while maintaining the same electrical properties as a thicker PVC control cable.

More Choice in EMI Protection

Alpha Wire offers EcoGen Cables in three shielding options to handle any electrical environment.

1 Unshielded
2 Foil shielded
3 Supra-Shield® foil + braid Shield

EcoCable®	600 V Control Cable
EcoCable® Mini	300 V Mini Communication Cable
EcoFlex®	600 V Continuous Flex Control Cable
EcoFlex® PUR	600 V High Flex Cable

EcoCable®
600 V Control Cable

A fully recyclable 600 V control cable that's up to 47% smaller and 65% lighter than PVC. More than 150 standard EcoCable constructions are available to meet your performance needs.

- Up to 47% smaller and 65% lighter than PVC
- Exceptional EMI protection with Supra-Shield foil + braid
- 87% lower outgassing
- 28 to 14 AWG
- 100% recyclable mPPE insulation and jacketing
- Contains no halogens, phthalates, or heavy metals

Conductor: Stranded tinned copper
Insulation: mPPE
Jacket: mPPE, slate
Conductor: Unshielded, foil shield, Supra-Shield® foil + braid
Voltage: 600 V
Bend Radius: 6 x OD
Temperature Range: -50°C to 105°C
Configurations:

- Unshielded multiconductor
- Foil Shielded multiconductor
- Supra-Shield foil + braid shielded multiconductor
- Custom and composite configurations available

FIT® Tubing Recommendations

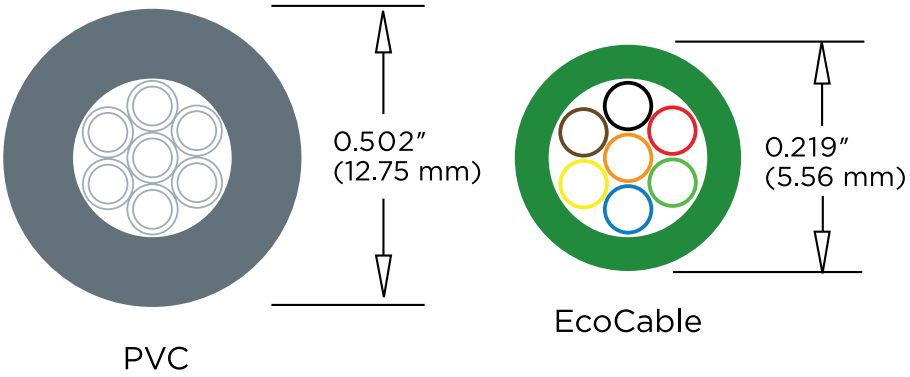
- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



Approvals

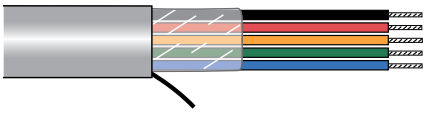
- UL AWM 21915 (600 V, 105°C)
- CE
- CSA AWM I/II A/B FT1
- IEC 60332-2 flame behavior
- RoHS
- REACH
- WEEE
- Suitable for use in NFPA 79 applications
- ISO 10993-5

22 AWG (0.35 mm²) 7-Conductor Unshielded Cable



EcoCable®

600 V Unshielded, Multiconductor



UL AWM 21915
CSA AWM I/II A/B FT2

Operating Temperature

- -50°C to 105°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77052	2	0.138	3.51	0.032	0.81
77053	3	0.144	3.66	0.032	0.81
77054	4	0.153	3.89	0.032	0.81
77055	6	0.174	4.42	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77047	2	0.146	3.71	0.032	0.81
77048	3	0.152	3.86	0.032	0.81
77049	4	0.162	4.11	0.032	0.81
77050	6	0.186	4.72	0.032	0.81
77051	8	0.198	5.03	0.032	0.81

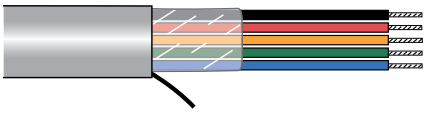
24 AWG (0.28 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77001	2	0.156	3.96	0.032	0.81
77002	4	0.175	4.44	0.032	0.81
77003	5	0.188	4.78	0.032	0.81
77004	7	0.201	5.11	0.032	0.81
77005	9	0.229	5.82	0.032	0.81
77006	19	0.288	7.32	0.032	0.81

EcoCable®

600 V Unshielded, Multiconductor



UL AWM 21915
CSA AWM I/II A/B FT2

Operating Temperature

- -50°C to 105°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77007	2	0.168	4.27	0.032	0.81
77008	4	0.189	4.80	0.032	0.81
77009	5	0.204	5.18	0.032	0.81
77010	7	0.219	5.56	0.032	0.81
77011	9	0.251	6.38	0.032	0.81
77012	19	0.318	8.08	0.032	0.81

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77056	2	0.184	4.67	0.032	0.81
77013	3	0.193	4.90	0.032	0.81
77014	4	0.209	5.31	0.032	0.81
77015	9	0.280	7.11	0.032	0.81
77016	12	0.309	7.85	0.032	0.81
77017	15	0.336	8.53	0.032	0.81
77018	19	0.358	9.09	0.032	0.81
77019	25	0.416	10.57	0.032	0.81

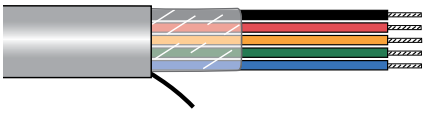
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77020	2	0.206	5.23	0.032	0.81
77021	3	0.217	5.51	0.032	0.81
77022	4	0.235	5.97	0.032	0.81
77023	5	0.255	6.48	0.032	0.81
77024	7	0.276	7.01	0.032	0.81
77025	9	0.320	8.13	0.032	0.81
77026	12	0.355	9.02	0.032	0.81
77027	15	0.387	9.83	0.032	0.81
77028	19	0.414	10.52	0.032	0.81
77029	25	0.482	12.24	0.032	0.81

EcoCable®

600 V Unshielded, Multiconductor



UL AWM 21915
CSA AWM I/II A/B FT2

Operating Temperature

- -50°C to 105°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.297 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77030	4	0.269	6.83	0.032	0.81
77031	5	0.293	7.44	0.032	0.81
77032	7	0.319	8.10	0.032	0.81
77033	9	0.371	9.42	0.032	0.81
77034	12	0.413	10.49	0.032	0.81
77035	15	0.451	11.46	0.032	0.81
77036	19	0.484	12.29	0.032	0.81
77037	25	0.608	15.44	0.032	0.81

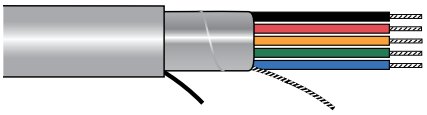
14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77038	2	0.260	6.60	0.032	0.81
77039	3	0.275	6.98	0.032	0.81
77040	4	0.301	7.65	0.032	0.81
77041	5	0.329	8.36	0.032	0.81
77042	7	0.358	9.09	0.032	0.81
77043	9	0.419	10.64	0.032	0.81
77044	12	0.467	11.86	0.032	0.81
77045	15	0.511	12.98	0.032	0.81
77046	25	0.686	17.42	0.032	0.81

EcoCable®

600 V Foil Shielded, Multiconductor



UL AWM 21915
CSA AWM I/II A/B FT2

Operating Temperature

- -50°C to 105°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.089 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77152	2	0.142	3.61	0.032	0.81
77153	3	0.148	3.76	0.032	0.81
77154	4	0.157	3.99	0.032	0.81
77155	6	0.178	4.52	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77147	2	0.150	3.81	0.032	0.81
77148	3	0.156	3.96	0.032	0.81
77149	4	0.166	4.22	0.032	0.81
77150	6	0.190	4.83	0.032	0.81
77151	8	0.202	5.13	0.032	0.81

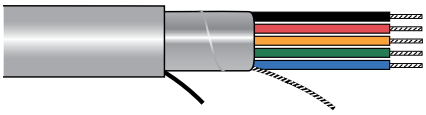
24 AWG (0.28 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77102	2	0.160	4.06	0.032	0.81
77103	3	0.167	4.24	0.032	0.81
77104	4	0.179	4.55	0.032	0.81
77105	5	0.192	4.88	0.032	0.81
77106	7	0.205	5.21	0.032	0.81
77107	9	0.233	5.92	0.032	0.81
77101	12	0.255	6.48	0.032	0.81

EcoCable®

600 V Foil Shielded, Multiconductor



UL AWM 21915
CSA AWM I/II A/B FT2

Operating Temperature

- -50°C to 105°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

(page 503)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77109	2	0.172	4.37	0.032	0.81
77110	3	0.180	4.57	0.032	0.81
77111	4	0.193	4.90	0.032	0.81
77112	5	0.208	5.28	0.032	0.81
77113	7	0.223	5.66	0.032	0.81
77114	9	0.255	6.48	0.032	0.81
77108	12	0.280	7.11	0.032	0.81

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77116	3	0.197	5.00	0.032	0.81
77117	4	0.213	5.41	0.032	0.81
77118	5	0.230	5.84	0.032	0.81
77119	7	0.247	6.27	0.032	0.81
77120	9	0.284	7.21	0.032	0.81
77115	12	0.313	7.95	0.032	0.81

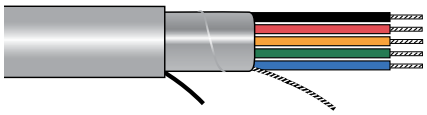
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77124	2	0.206	5.23	0.032	0.81
77126	3	0.217	5.51	0.032	0.81
77127	4	0.234	5.94	0.032	0.81
77128	5	0.254	6.45	0.032	0.81
77129	7	0.275	6.98	0.032	0.81
77130	9	0.317	8.05	0.032	0.81
77121	12	0.350	8.89	0.032	0.81
77122	15	0.381	9.68	0.032	0.81
77123	19	0.408	10.36	0.032	0.81
77125	25	0.474	12.04	0.032	0.81

EcoCable®

600 V Foil Shielded, Multiconductor



UL AWM 21915
CSA AWM I/II A/B FT2

Operating Temperature

- -50°C to 105°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.297 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77133	2	0.230	5.84	0.032	0.81
77134	3	0.242	6.15	0.032	0.81
77135	4	0.263	6.68	0.032	0.81
77136	5	0.287	7.29	0.032	0.81
77137	7	0.3111	7.90	0.032	0.81
77138	9	0.361	9.17	0.032	0.81
77131	12	0.400	10.16	0.032	0.81
77132	15	0.455	11.56	0.032	0.81

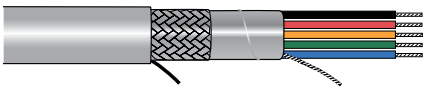
14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77141	2	0.264	6.71	0.032	0.81
77142	3	0.279	7.09	0.032	0.81
77143	4	0.305	7.75	0.032	0.81
77144	5	0.333	8.46	0.032	0.81
77145	7	0.362	9.19	0.032	0.81
77146	9	0.423	10.74	0.032	0.81
77139	12	0.471	11.96	0.032	0.81
77140	15	0.515	13.08	0.032	0.81

EcoCable®

600 V Supra-Shield® Foil + Braid Shield, Multiconductor



UL AWM 21915
CSA AWM I/II A/B FT2

Operating Temperature

- -50°C to 105°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire
  Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.089 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77252	2	0.166	4.22	0.032	0.81
77253	3	0.172	4.37	0.032	0.81
77254	4	0.181	4.60	0.032	0.81
77255	6	0.202	5.13	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77247	2	0.174	4.42	0.032	0.81
77248	3	0.180	4.57	0.032	0.81
77249	4	0.190	4.83	0.032	0.81
77250	6	0.214	5.44	0.032	0.81
77251	8	0.226	5.74	0.032	0.81

24 AWG (0.28 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77201	4	0.203	5.16	0.032	0.81
77202	7	0.229	5.82	0.032	0.81
77203	12	0.279	7.09	0.032	0.81

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77204	4	0.217	5.51	0.032	0.81
77205	7	0.247	6.27	0.032	0.81
77206	12	0.304	7.72	0.032	0.81

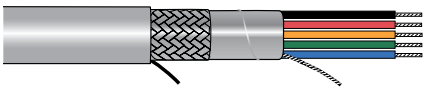
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77207	4	0.237	6.02	0.032	0.81
77208	5	0.254	6.45	0.032	0.81
77209	7	0.271	6.88	0.032	0.81
77210	9	0.308	7.82	0.032	0.81
77211	12	0.337	8.56	0.032	0.81
77212	19	0.386	9.80	0.032	0.81

EcoCable®

600 V Supra-Shield® Foil + Braid Shield, Multiconductor



UL AWM 21915
CSA AWM I/II A/B FT2

Operating Temperature

- -50°C to 105°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire
  Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77213	2	0.234	5.94	0.032	0.81
77214	3	0.245	6.22	0.032	0.81
77215	4	0.263	6.68	0.032	0.81
77216	5	0.283	7.19	0.032	0.81
77217	7	0.305	7.75	0.032	0.81
77218	9	0.348	8.84	0.032	0.81
77219	12	0.383	9.73	0.032	0.81
77220	15	0.414	10.52	0.032	0.81
77221	19	0.442	11.23	0.032	0.81

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.297 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77222	2	0.262	6.65	0.032	0.81
77223	3	0.275	6.99	0.032	0.81
77224	4	0.297	7.54	0.032	0.81
77225	5	0.321	8.15	0.032	0.81
77226	7	0.347	8.81	0.032	0.81
77227	9	0.399	10.13	0.032	0.81
77228	12	0.441	11.20	0.032	0.81
77229	15	0.479	12.17	0.032	0.81
77230	19	0.512	13.00	0.032	0.81

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
77231	2	0.288	7.32	0.032	0.81
77232	3	0.303	7.70	0.032	0.81
77233	4	0.329	8.36	0.032	0.81
77234	7	0.386	9.80	0.032	0.81
77235	9	0.447	11.35	0.032	0.81
77236	12	0.495	12.57	0.032	0.81
77237	15	0.539	13.69	0.032	0.81
77238	25	0.720	17.22	0.053	1.35

EcoCable® Mini

300 V Communication Cable

Small Just Got Mini.

EcoCable Mini recyclable cable was developed in response to our customers' need for a smaller, lighter 300 V cable.

- Up to 32% smaller than PVC
- Up to 44% lighter than PVC
- 92% lower outgassing than PVC
- 100% recyclable mPPE insulation and jacketing
- Contains no halogens, phthalates, or heavy metals

Conductor: Stranded tinned copper

Insulation: mPPE

Jacket: mPPE, slate

Shielding: Unshielded, foil shield, Supra-Shield® Foil + Braid

Voltage: 300 V

Temperature Range:

-50°C to 105°C

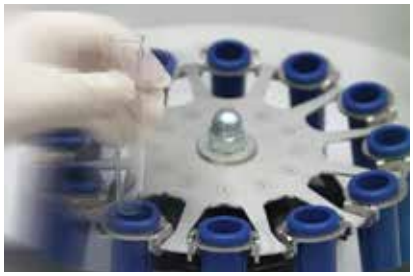
Configurations:

- Multiconductor or multipair
- Unshielded
- Overall foil shielded
- Individually shielded pairs + overall foil shield
- Supra-Shield® foil + braid
- Custom and composite configurations available



Approvals

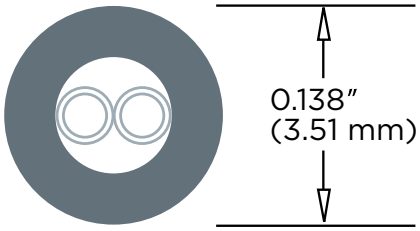
- UL AWM 21460
- UL VW-1
- CSA I A/B FT1
- CE
- RoHS
- REACH
- WEEE
- Suitable for use in NFPA 79 applications
- ISO 10993-5



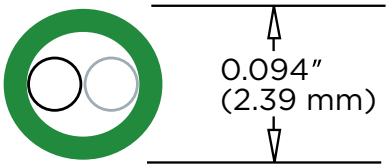
FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

28 AWG (0.0925 mm²) 2-Conductor Unshielded Cable



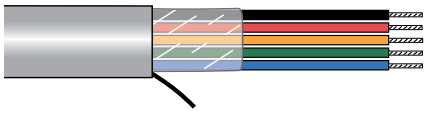
PVC



EcoCable Mini

EcoCable® Mini

300 V Unshielded, Multiconductor



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.093 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78002	2	0.094	2.39	0.015	0.38
78003	3	0.099	2.51	0.015	0.38
78004	4	0.107	2.72	0.015	0.38
78006	6	0.124	3.15	0.015	0.38
78008	8	0.134	3.40	0.015	0.38

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78012	2	0.102	2.59	0.015	0.38
78013	3	0.107	2.72	0.015	0.38
78014	4	0.116	2.95	0.015	0.38
78016	6	0.136	3.45	0.015	0.38
78018	8	0.147	3.73	0.015	0.38
78020	10	0.170	4.32	0.015	0.38
78021	15	0.190	4.83	0.015	0.38

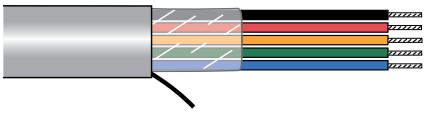
24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78022	2	0.112	2.84	0.015	0.38
78023	3	0.118	3.00	0.015	0.38
78024	4	0.128	3.25	0.015	0.38
78026	6	0.152	3.86	0.015	0.38
78028	8	0.164	4.17	0.015	0.38
78030	10	0.190	4.83	0.015	0.38
78031	15	0.213	5.41	0.015	0.38
78403	20	0.238	6.05	0.015	0.38
78433	25	0.268	6.81	0.015	0.38

EcoCable® Mini

300 V Unshielded, Multiconductor



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- 22AWG: Chart E (page 503)
- 20AWG: Chart D (page 502)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78032	2	0.126	3.20	0.015	0.38
78033	3	0.133	3.38	0.015	0.38
78034	4	0.145	3.68	0.015	0.38
78036	6	0.173	4.39	0.015	0.38
78038	8	0.187	4.75	0.015	0.38
78040	10	0.218	5.54	0.015	0.38
78041	15	0.245	6.22	0.015	0.38
78404	20	0.275	6.98	0.015	0.38
78434	25	0.310	7.87	0.015	0.38

20 AWG (0.616 mm²)

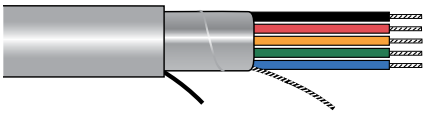
Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78042	2	0.142	3.61	0.015	0.38
78043	3	0.150	3.81	0.015	0.38
78044	4	0.165	4.19	0.015	0.38
78046	6	0.197	5.00	0.015	0.38
78048	8	0.214	5.44	0.015	0.38
78050	10	0.250	6.35	0.015	0.38
78055	15	0.282	7.16	0.015	0.38
78405	20	0.317	8.05	0.015	0.38
78435	25	0.358	9.09	0.015	0.38

RoHS Compliant CA PROP 65

EcoCable® Mini

300 V Foil Shield, Multiconductor



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.093 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78102	2	0.098	2.49	0.015	0.38
78103	3	0.103	2.62	0.015	0.38
78104	4	0.111	2.82	0.015	0.38
78106	6	0.128	3.25	0.015	0.38
78108	8	0.138	3.51	0.015	0.38

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78112	2	0.106	2.69	0.015	0.38
78113	3	0.111	2.82	0.015	0.38
78114	4	0.120	3.05	0.015	0.38
78116	6	0.140	3.56	0.015	0.38
78118	8	0.151	3.84	0.015	0.38
78120	10	0.174	4.42	0.015	0.38
78121	15	0.194	4.93	0.015	0.38

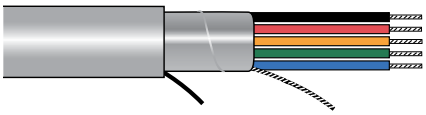
24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78122	2	0.116	2.95	0.015	0.38
78123	3	0.122	3.10	0.015	0.38
78124	4	0.132	3.35	0.015	0.38
78126	6	0.156	3.96	0.015	0.38
78128	8	0.168	4.27	0.015	0.38
78130	10	0.194	4.93	0.015	0.38
78131	15	0.217	5.51	0.015	0.38
78413	20	0.242	6.15	0.015	0.38
78443	25	0.272	6.91	0.015	0.38

EcoCable® Mini

300 V Foil Shield, Multiconductor



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- 22AWG: Chart E (page 503)
- 20AWG: Chart D (page 502)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78132	2	0.130	3.30	0.015	0.38
78133	3	0.137	3.48	0.015	0.38
78134	4	0.149	3.78	0.015	0.38
78136	6	0.177	4.50	0.015	0.38
78138	8	0.191	4.85	0.015	0.38
78140	10	0.222	5.64	0.015	0.38
78141	15	0.249	6.32	0.015	0.38
78414	20	0.279	7.09	0.015	0.38
78444	25	0.314	7.98	0.015	0.38

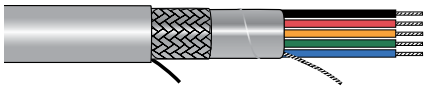
20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78142	2	0.146	3.71	0.015	0.38
78143	3	0.154	3.91	0.015	0.38
78144	4	0.169	4.29	0.015	0.38
78146	6	0.201	5.11	0.015	0.38
78148	8	0.218	5.54	0.015	0.38
78150	10	0.254	6.45	0.015	0.38
78155	15	0.286	7.26	0.015	0.38
78415	20	0.321	8.15	0.015	0.38
78445	25	0.362	9.19	0.015	0.38

EcoCable® Mini

300 V Foil + Braid Shield, Multiconductor



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire
  Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.093 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78302	2	0.125	3.18	0.015	0.38
78303	3	0.130	3.30	0.015	0.38
78304	4	0.138	3.51	0.015	0.38
78306	6	0.155	3.94	0.015	0.38
78308	8	0.165	4.19	0.015	0.38

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78312	2	0.133	3.38	0.015	0.38
78313	3	0.138	3.51	0.015	0.38
78314	4	0.147	3.73	0.015	0.38
78316	6	0.167	4.24	0.015	0.38
78318	8	0.178	4.52	0.015	0.38
78320	10	0.201	5.11	0.015	0.38
78321	15	0.221	5.61	0.015	0.38

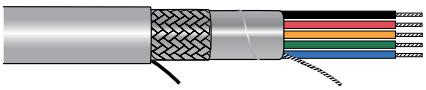
24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78322	2	0.143	3.63	0.015	0.38
78323	3	0.149	3.78	0.015	0.38
78324	4	0.159	4.04	0.015	0.38
78326	6	0.183	4.65	0.015	0.38
78328	8	0.195	4.95	0.015	0.38
78330	10	0.221	5.61	0.015	0.38
78331	15	0.244	6.20	0.015	0.38
78423	20	0.269	6.83	0.015	0.38
78453	25	0.299	7.59	0.015	0.38

EcoCable® Mini

300 V Foil + Braid Shield, Multiconductor



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- 22AWG: Chart E (page 503)
- 20AWG: Chart D (page 502)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire
  Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78332	2	0.157	3.99	0.015	0.38
78333	3	0.164	4.17	0.015	0.38
78334	4	0.176	4.47	0.015	0.38
78336	6	0.204	5.18	0.015	0.38
78338	8	0.218	5.54	0.015	0.38
78340	10	0.249	6.32	0.015	0.38
78341	15	0.276	7.01	0.015	0.38
78424	20	0.306	7.77	0.015	0.38
78454	25	0.341	8.66	0.015	0.38

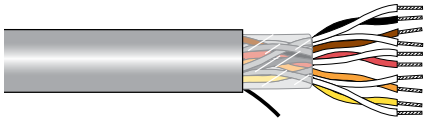
20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78342	2	0.173	4.39	0.015	0.38
78343	3	0.181	4.60	0.015	0.38
78344	4	0.196	4.98	0.015	0.38
78346	6	0.228	5.79	0.015	0.38
78348	8	0.245	6.22	0.015	0.38
78350	10	0.281	7.14	0.015	0.38
78355	15	0.313	7.95	0.015	0.38
78425	20	0.348	8.84	0.015	0.38
78455	25	0.389	9.88	0.015	0.38

EcoCable® Mini

300 V Unshielded, Multipair



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- Chart B (page 499)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.093 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78052	2	0.132	3.35	0.015	0.38
78053	3	0.140	3.56	0.015	0.38
78054	4	0.153	3.89	0.015	0.38
78005	5	0.167	4.24	0.015	0.38
78056	6	0.182	4.62	0.015	0.38
78058	8	0.198	5.03	0.015	0.38
78009	9	0.213	5.41	0.015	0.38

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78062	2	0.146	3.71	0.015	0.38
78063	3	0.154	3.91	0.015	0.38
78064	4	0.169	4.29	0.015	0.38
78015	5	0.185	4.70	0.015	0.38
78066	6	0.202	4.13	0.015	0.38
78068	8	0.219	5.56	0.015	0.38
78019	9	0.237	6.02	0.015	0.38

24 AWG (0.241 mm²)

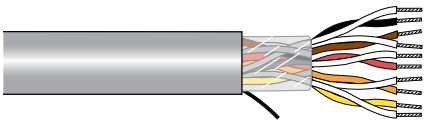
Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78072	2	0.162	4.11	0.015	0.38
78073	3	0.172	4.37	0.015	0.38
78074	4	0.189	4.80	0.015	0.38
78025	5	0.207	5.26	0.015	0.38
78076	6	0.227	5.77	0.015	0.38
78078	8	0.247	6.27	0.015	0.38
78029	9	0.267	6.78	0.015	0.38
78408	20	0.369	9.37	0.015	0.38
78438	25	0.418	10.62	0.015	0.38

RoHS Compliant CA PROP 65

EcoCable® Mini

300 V Unshielded, Multipair



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- 22AWG: Chart B (page 499)
- 20AWG: Chart A (page 499)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78082	2	0.185	4.70	0.015	0.38
78083	3	0.197	5.00	0.015	0.38
78084	4	0.217	5.51	0.015	0.38
78035	5	0.239	6.07	0.015	0.38
78086	6	0.261	6.63	0.015	0.38
78088	8	0.285	7.24	0.015	0.38
78039	9	0.309	7.85	0.015	0.38
78409	20	0.429	10.90	0.015	0.38
78439	25	0.487	12.37	0.015	0.38

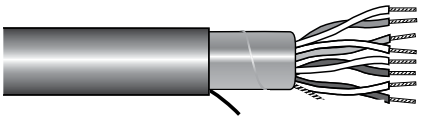
20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78092	2	0.211	5.36	0.015	0.38
78093	3	0.225	5.72	0.015	0.38
78094	4	0.248	6.30	0.015	0.38
78045	5	0.274	6.96	0.015	0.38
78096	6	0.301	7.65	0.015	0.38
78098	8	0.328	8.33	0.015	0.38
78049	9	0.356	9.04	0.015	0.38
78410	20	0.498	12.65	0.015	0.38
78440	25	0.565	14.35	0.015	0.38

EcoCable® Mini

300 V Foil Shield, Multipair



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- Chart B (page 499)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.093 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78152	2	0.136	3.45	0.015	0.38
78153	3	0.144	3.66	0.015	0.38
78154	4	0.157	3.99	0.015	0.38
78105	5	0.171	4.34	0.015	0.38
78156	6	0.186	4.72	0.015	0.38
78158	8	0.202	5.13	0.015	0.38
78109	9	0.217	5.51	0.015	0.38

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78162	2	0.150	3.81	0.015	0.38
78163	3	0.158	4.01	0.015	0.38
78164	4	0.173	4.39	0.015	0.38
78115	5	0.189	4.80	0.015	0.38
78166	6	0.206	5.23	0.015	0.38
78168	8	0.223	5.66	0.015	0.38
78119	9	0.241	6.12	0.015	0.38

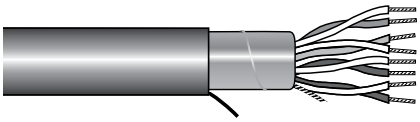
24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78172	2	0.166	4.22	0.015	0.38
78173	3	0.176	4.47	0.015	0.38
78174	4	0.193	4.90	0.015	0.38
78125	5	0.211	5.36	0.015	0.38
78176	6	0.231	5.87	0.015	0.38
78178	8	0.251	6.38	0.015	0.38
78129	9	0.271	6.88	0.015	0.38
78418	20	0.373	9.47	0.015	0.38
78448	25	0.422	10.72	0.015	0.38

EcoCable® Mini

300 V Foil Shield, Multipair



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- 22AWG: Chart B (page 499)
- 20AWG: Chart A (page 499)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78182	2	0.189	4.80	0.015	0.38
78183	3	0.201	5.11	0.015	0.38
78184	4	0.221	5.61	0.015	0.38
78135	5	0.243	6.17	0.015	0.38
78186	6	0.265	6.73	0.015	0.38
78188	8	0.289	7.34	0.015	0.38
78139	9	0.313	7.95	0.015	0.38
78419	20	0.433	11.00	0.015	0.38
78449	25	0.491	12.47	0.015	0.38

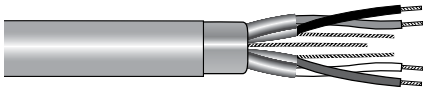
20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78192	2	0.215	5.46	0.015	0.38
78193	3	0.229	5.82	0.015	0.38
78194	4	0.252	6.40	0.015	0.38
78145	5	0.278	7.06	0.015	0.38
78196	6	0.305	7.75	0.015	0.38
78198	8	0.332	8.43	0.015	0.38
78149	9	0.360	9.14	0.015	0.38
78420	20	0.502	12.75	0.015	0.38
78450	25	0.569	14.45	0.015	0.38

EcoCable® Mini

300 V Overall Foil Shield and Individually Shielded Pairs, Multipair



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- Chart B (page 499)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.093 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78202	2	0.153	3.89	0.015	0.38
78213	3	0.162	4.11	0.015	0.38
78204	4	0.177	4.50	0.015	0.38
78205	5	0.194	4.93	0.015	0.38
78206	6	0.211	5.36	0.015	0.38
78208	8	0.229	5.82	0.015	0.38
78209	9	0.247	6.27	0.015	0.38

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78212	2	0.167	4.24	0.015	0.38
78223	3	0.177	4.50	0.015	0.38
78214	4	0.194	4.93	0.015	0.38
78215	5	0.213	5.41	0.015	0.38
78216	6	0.232	5.89	0.015	0.38
78218	8	0.252	6.40	0.015	0.38
78219	9	0.273	6.93	0.015	0.38

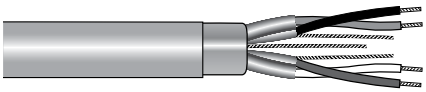
24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78222	2	0.185	4.70	0.015	0.38
78233	3	0.196	4.98	0.015	0.38
78224	4	0.215	5.46	0.015	0.38
78225	5	0.237	6.02	0.015	0.38
78226	6	0.259	6.58	0.015	0.38
78228	8	0.282	7.16	0.015	0.38
78229	9	0.305	7.75	0.015	0.38

EcoCable® Mini

300 V Overall Foil Shield and Individually Shielded Pairs, Multipair



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- 22AWG: Chart B (page 499)
- 20AWG: Chart A (page 499)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78232	2	0.209	5.31	0.015	0.38
78243	3	0.222	5.64	0.015	0.38
78234	4	0.245	6.22	0.015	0.38
78235	5	0.270	6.86	0.015	0.38
78236	6	0.296	7.52	0.015	0.38
78238	8	0.322	8.18	0.015	0.38
78239	9	0.349	8.86	0.015	0.38

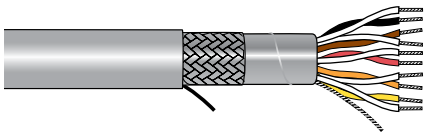
20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78242	2	0.237	6.02	0.015	0.38
78253	3	0.253	6.43	0.015	0.38
78244	4	0.279	7.09	0.015	0.38
78245	5	0.308	7.82	0.015	0.38
78246	6	0.338	8.59	0.015	0.38
78248	8	0.369	9.37	0.015	0.38
78249	9	0.400	10.16	0.015	0.38

EcoCable® Mini

300 V Supra-Shield® Foil + Braid Shield, Multipair



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- Chart B (page 499)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire
  Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.093 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78352	2	0.163	4.14	0.015	0.38
78353	3	0.171	4.34	0.015	0.38
78354	4	0.184	4.67	0.015	0.38
78305	5	0.198	5.03	0.015	0.38
78356	6	0.213	5.41	0.015	0.38
78358	8	0.229	5.82	0.015	0.38
78309	9	0.244	6.20	0.015	0.38

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78362	2	0.177	4.50	0.015	0.38
78363	3	0.185	4.70	0.015	0.38
78364	4	0.200	5.08	0.015	0.38
78315	5	0.216	5.49	0.015	0.38
78366	6	0.233	5.92	0.015	0.38
78368	8	0.250	6.35	0.015	0.38
78319	9	0.268	6.81	0.015	0.38

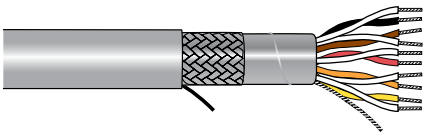
24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78372	2	0.193	4.90	0.015	0.38
78373	3	0.203	5.16	0.015	0.38
78374	4	0.220	5.59	0.015	0.38
78325	5	0.238	6.05	0.015	0.38
78376	6	0.258	6.55	0.015	0.38
78378	8	0.278	7.06	0.015	0.38
78329	9	0.298	7.57	0.015	0.38
78428	20	0.400	10.16	0.015	0.38
78458	25	0.449	11.40	0.015	0.38

EcoCable® Mini

300 V Supra-Shield® Foil + Braid Shield, Multipair



UL AWM 21460
UL VW-1
CSA I A/B FT1

Operating Temperature

- -40°C to 80°C

Conductor Color Code

- 22AWG: Chart B (page 499)
- 20AWG: Chart A (page 499)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire
  Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78382	2	0.216	5.49	0.015	0.38
78383	3	0.228	5.79	0.015	0.38
78384	4	0.248	6.30	0.015	0.38
78335	5	0.270	6.86	0.015	0.38
78386	6	0.292	7.42	0.015	0.38
78388	8	0.316	8.03	0.015	0.38
78339	9	0.340	8.64	0.015	0.38

20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
78392	2	0.242	6.15	0.015	0.38
78393	3	0.256	6.50	0.015	0.38
78394	4	0.279	7.09	0.015	0.38
78345	5	0.305	7.75	0.015	0.38
78396	6	0.332	8.43	0.015	0.38
78398	8	0.359	9.12	0.015	0.38
78349	9	0.387	9.83	0.015	0.38

EcoFlex®

600 V Continuous Flex Control Cable

Rated for over 1 million flex life cycles, EcoFlex is a fully recyclable, compact cable that's up to 32% smaller and 55% lighter than PVC.

- Up to 32% smaller and 55% lighter than PVC
- Long flex life for machines with constant motion or flexing
- Up to 91% lower outgassing
- Contains no halogens, PVC, phthalates, or heavy metals
- Exceptional EMI performance with Supra-Shield® foil + braid

Conductor: Stranded tinned copper
Insulation: mPPE
Jacket: mPPE, slate
Shielding: Unshielded, foil shield, Supra-Shield® foil+braid
Voltage: 600 V

Bend Radius:
Unshielded: 5 x OD (flexing/stationary)
Shielded: 8 x OD (flexing)
6 x OD (stationary)

Temperature Range:
-5°C to 105°C (flexing)
-40°C to 105°C (stationary)

Configurations:
- Unshielded multiconductor
- Braid shielded multiconductor
- Supra-Shield® foil + braid shielded multiconductor
- Custom configurations available

FIT® Tubing Recommendations

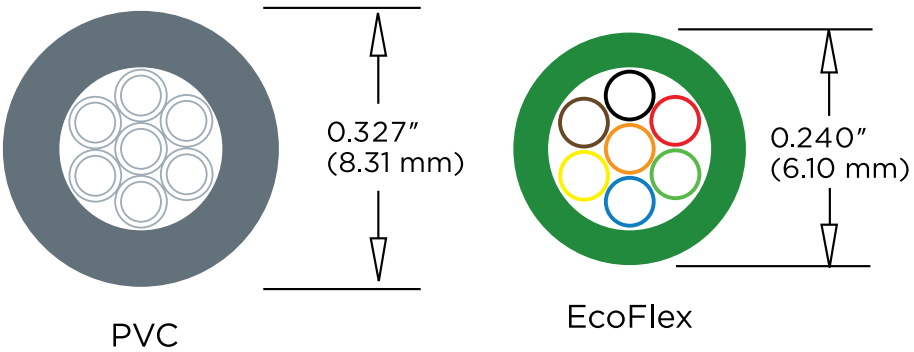
- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



Approvals

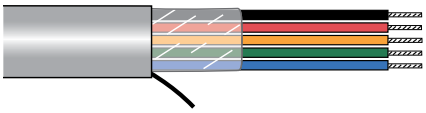
- UL AWM 21819 (600 V, 105°C)
- UL AWM 21492 (300 V, 80°C)
- CE
- UL VW-1
- CSA AWM I/II A/B FT1
- IEC 60332-2 flame behavior
- RoHS
- REACH
- WEEE
- Suitable for use in NFPA 79 applications
- ISO 10993-5

20 AWG (0.51 mm²) 7-Conductor Unshielded Cable



EcoFlex®

600 V Unshielded, Multiconductor



UL AWM 21819 (600 V, 105°C)
UL AWM 21492 (300 V, 80°C)
UL VW-1
CSA I/II A/B FT1

Operating Temperature

- -40°C to 105°C (flexing)
- -5°C to 105°C (stationary)

Conductor Color Code

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

Bend Radius

- 5 x OD (flexing)
- 5 x OD (stationary)

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79061	2	0.142	3.61	0.035	0.89
79062	3	0.147	3.73	0.035	0.89

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79056	2	0.150	3.81	0.035	0.89
79057	3	0.156	3.96	0.035	0.89
79058	4	0.166	4.22	0.035	0.89
79059	6	0.189	4.80	0.035	0.89
79060	8	0.216	5.49	0.035	0.89

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79050	2	0.162	4.11	0.035	0.89
79051	3	0.169	4.29	0.035	0.89
79052	4	0.181	4.60	0.035	0.89
79053	6	0.207	5.26	0.035	0.89
79054	8	0.238	6.05	0.035	0.89
79055	10	0.257	6.53	0.035	0.89

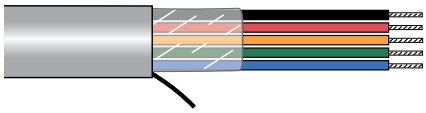
22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79044	2	0.176	4.47	0.035	0.89
79045	3	0.184	4.67	0.035	0.89
79046	4	0.198	5.03	0.035	0.89
79047	6	0.228	5.79	0.035	0.89
79048	8	0.264	6.71	0.035	0.89
79049	10	0.286	7.26	0.035	0.89

EcoFlex®

600 V Unshielded, Multiconductor



UL AWM 21819 (600 V, 105°C)
UL AWM 21492 (300 V, 80°C)
UL VW-1
CSA I/II A/B FT1

Operating Temperature

- -40°C to 105°C (flexing)
- -5°C to 105°C (stationary)

Conductor Color Code

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

Bend Radius

- 5 x OD (flexing)
- 5 x OD (stationary)

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.51 mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79001	2	0.184	4.67	0.035	0.89
79002	3	0.193	4.90	0.035	0.89
79003	4	0.207	5.26	0.035	0.89
79004	5	0.224	5.69	0.035	0.89
79005	7	0.240	6.10	0.035	0.89
79006	9	0.296	7.52	0.035	0.89
79007	12	0.303	7.70	0.035	0.89
79008	18	0.349	8.86	0.035	0.89

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79010	2	0.208	5.28	0.035	0.89
79011	3	0.219	5.56	0.035	0.89
79012	4	0.236	5.99	0.035	0.89
79013	5	0.256	6.50	0.035	0.89
79014	7	0.277	7.04	0.035	0.89
79015	9	0.344	8.74	0.035	0.89
79016	12	0.353	8.97	0.035	0.89
79017	18	0.411	10.44	0.035	0.89

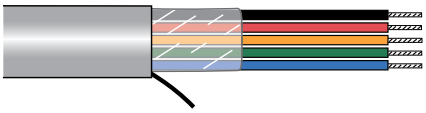
16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79019	2	0.236	5.99	0.035	0.89
79020	3	0.249	6.32	0.035	0.89
79021	4	0.270	6.86	0.035	0.89
79022	5	0.294	7.47	0.035	0.89
79023	7	0.319	8.10	0.035	0.89
79024	9	0.400	10.16	0.035	0.89
79025	12	0.411	10.44	0.035	0.89
79026	18	0.481	12.22	0.035	0.89

EcoFlex®

600 V Unshielded, Multiconductor



UL AWM 21819 (600 V, 105°C)
UL AWM 21492 (300 V, 80°C)
UL VW-1
CSA I/II A/B FT1

Operating Temperature

- -40°C to 105°C (flexing)
- -5°C to 105°C (stationary)

Conductor Color Code

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

Bend Radius

- 5 x OD (flexing)
- 5 x OD (stationary)

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79028	2	0.266	6.76	0.035	0.89
79029	3	0.281	7.14	0.035	0.89
79030	4	0.307	7.80	0.035	0.89
79031	5	0.335	8.51	0.035	0.89
79032	7	0.364	9.25	0.035	0.89
79033	9	0.459	11.66	0.035	0.89
79034	12	0.473	12.01	0.035	0.89
79035	18	0.556	14.12	0.035	0.89

12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.012 (0.30 mm)

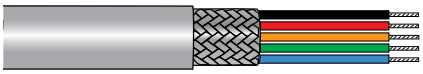
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79037	3	0.326	8.28	0.035	0.89
79038	4	0.358	9.09	0.035	0.89
79039	5	0.392	9.96	0.035	0.89
79040	7	0.428	10.87	0.035	0.89

10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79041	3	0.380	9.65	0.035	0.89
79042	4	0.423	10.74	0.035	0.89
79043	5	0.465	11.81	0.035	0.89

EcoFlex®
600 V Braid Shield, Multiconductor



UL AWM 21819 (600 V, 105°C)
UL AWM 21492 (300 V, 80°C)
UL VW-1
CSA I/II A/B FT1

Operating Temperature
- -40°C to 105°C (flexing)
- -5°C to 105°C (stationary)

Conductor Color Code
- Chart D (page 502)

Materials
- Stranded tinned copper conductors
- mPPE insulation
- Tinned copper braid, 70% min. coverage
- mPPE jacket, slate

Bend Radius
- 8 x OD (flexing)
- 6 x OD (stationary)

Availability
100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.51 mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79101	2	0.210	5.33	0.035	0.89
79102	3	0.219	5.56	0.035	0.89
79103	4	0.233	5.92	0.035	0.89
79104	5	0.250	6.35	0.035	0.89
79105	7	0.266	6.76	0.035	0.89
79106	9	0.321	8.15	0.035	0.89
79107	12	0.329	8.36	0.035	0.89
79108	18	0.376	9.55	0.035	0.89

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79109	2	0.236	5.99	0.035	0.89
79110	3	0.247	6.27	0.035	0.89
79111	4	0.264	6.71	0.035	0.89
79112	5	0.284	7.21	0.035	0.89
79113	7	0.305	7.75	0.035	0.89
79114	9	0.372	9.45	0.035	0.89
79115	12	0.381	9.68	0.035	0.89

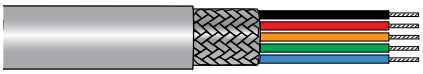
16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79116	2	0.262	6.65	0.035	0.89
79117	3	0.275	6.98	0.035	0.89
79118	4	0.296	7.52	0.035	0.89
79119	5	0.320	8.13	0.035	0.89
79120	7	0.345	8.76	0.035	0.89

EcoFlex®

600 V Braid Shield, Multiconductor



UL AWM 21819 (600 V, 105°C)
UL AWM 21492 (300 V, 80°C)
UL VW-1
CSA I/II A/B FT1

Operating Temperature

- -40°C to 105°C (flexing)
- -5°C to 105°C (stationary)

Conductor Color Code

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Tinned copper braid, 70% min. coverage
- mPPE jacket, slate

Bend Radius

- 8 x OD (flexing)
- 6 x OD (stationary)

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79121	2	0.294	7.47	0.035	0.89
79122	3	0.309	7.85	0.035	0.89
79123	4	0.335	8.51	0.035	0.89
79124	5	0.363	9.22	0.035	0.89
79125	7	0.392	9.96	0.035	0.89

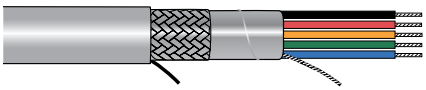
12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79126	3	0.354	8.99	0.035	0.89
79127	4	0.386	9.80	0.035	0.89

EcoFlex®

600 V Supra-Shield® Foil + Braid Shield, Multiconductor



UL AWM 21819 (600 V, 105°C)
UL AWM 21492 (300 V, 80°C)
UL VW-1
CSA I/II A/B FT1

Operating Temperature

- -40°C to 105°C (flexing)
- -5°C to 105°C (stationary)

Conductor Color Code

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire
  Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

Bend Radius

- 8 x OD (flexing)
- 6 x OD (stationary)

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79261	2	0.174	4.42	0.035	0.89
79262	3	0.179	4.55	0.035	0.89

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79256	2	0.182	4.62	0.035	0.89
79257	3	0.188	4.78	0.035	0.89
79258	4	0.198	5.03	0.035	0.89
79259	6	0.221	5.61	0.035	0.89
79260	8	0.248	6.30	0.035	0.89

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79250	2	0.194	4.93	0.035	0.89
79251	3	0.201	5.11	0.035	0.89
79252	4	0.213	5.41	0.035	0.89
79253	6	0.239	6.07	0.035	0.89
79254	8	0.270	6.86	0.035	0.89
79255	10	0.289	7.34	0.035	0.89

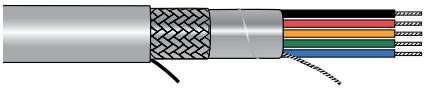
22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79244	2	0.208	5.28	0.035	0.89
79245	3	0.216	5.49	0.035	0.89
79246	4	0.230	5.84	0.035	0.89
79247	6	0.260	6.60	0.035	0.89
79248	8	0.296	7.52	0.035	0.89
79249	10	0.318	8.08	0.035	0.89

EcoFlex®

600 V Supra-Shield® Foil + Braid Shield, Multiconductor



UL AWM 21819 (600 V, 105°C)
UL AWM 21492 (300 V, 80°C)
UL VW-1
CSA I/II A/B FT1

Operating Temperature

- -40°C to 105°C (flexing)
- -5°C to 105°C (stationary)

Conductor Color Code

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire
  Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

Bend Radius

- 8 x OD (flexing)
- 6 x OD (stationary)

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

20 AWG (0.51 mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79201	2	0.216	5.49	0.035	0.89
79202	3	0.225	5.72	0.035	0.89
79203	4	0.239	6.07	0.035	0.89
79204	5	0.256	6.50	0.035	0.89
79205	7	0.272	6.91	0.035	0.89
79206	9	0.328	8.33	0.035	0.89
79207	12	0.335	8.51	0.035	0.89
79208	18	0.382	9.70	0.035	0.89

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79210	2	0.242	6.15	0.035	0.89
79211	3	0.253	6.43	0.035	0.89
79212	4	0.270	6.86	0.035	0.89
79213	5	0.290	7.37	0.035	0.89
79214	7	0.311	7.90	0.035	0.89
79215	9	0.378	9.60	0.035	0.89
79216	12	0.387	9.83	0.035	0.89
79217	18	0.445	11.30	0.035	0.89

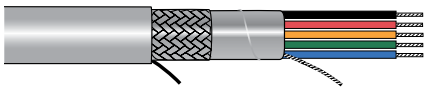
16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79218	2	0.268	6.81	0.035	0.89
79219	3	0.281	7.14	0.035	0.89
79220	4	0.302	7.67	0.035	0.89
79221	5	0.326	8.28	0.035	0.89
79222	7	0.351	8.92	0.035	0.89
79223	9	0.432	10.97	0.035	0.89
79224	12	0.443	11 25	0.035	0.89

EcoFlex®

600 V Supra-Shield® Foil + Braid Shield, Multiconductor



UL AWM 21819 (600 V, 105°C)
UL AWM 21492 (300 V, 80°C)
UL VW-1
CSA I/II A/B FT1

Operating Temperature

- -40°C to 105°C (flexing)
- -5°C to 105°C (stationary)

Conductor Color Code

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire
  Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

Bend Radius

- 8 x OD (flexing)
- 6 x OD (stationary)

Availability

100 ft (30.5 m)
1,000 ft (305 m)
Bulk, cut to length

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79225	2	0.300	7.62	0.035	0.89
79226	3	0.315	8.00	0.035	0.89
79227	4	0.341	8.66	0.035	0.89
79228	5	0.369	9.37	0.035	0.89
79229	7	0.398	10.11	0.035	0.89
79230	9	0.493	12.52	0.035	0.89
79231	12	0.507	12.88	0.035	0.89

12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79232	3	0.360	9.14	0.035	0.89
79233	4	0.391	9.93	0.035	0.89
79234	5	0.426	10.82	0.035	0.89
79235	7	0.462	11.73	0.035	0.89

10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
79236	3	0.419	10.64	0.035	0.89
79237	4	0.457	11.61	0.035	0.89

EcoFlex® PUR

Rugged 600 V Continuous Flex Cable

EcoFlex PUR Cable provides abrasion, UV, and oil resistance with a tough, zero-halogen polyurethane jacket. It's up to 40% smaller and 44% lighter than other 600 V continuous flex cables.

- Up to 40% smaller and 44% lighter
- Rated for over 8 million flex cycles
- Flexible at low temperatures
- Unshielded or braid shielding
- 28 to 10 AWG
- Zero halogen
- Contains no heavy metals or phthalates

Conductor: Finely stranded tinned copper (IEC 60228 conductors, Class 6)

Insulation: mPPE

Jacket: PUR, zero halogen, slate

Shielding: Unshielded tinned copper braid, 85% coverage

Voltage: 600 V

Bend Radius:

6 x OD (flexing)

4 x OD (stationary)

Temperature Range:

-40°C to 80°C (flexing)

-50°C to 90°C (stationary)

Configurations:

- Unshielded multiconductor
- Braid shielded multiconductor
- Custom configurations available

FIT® Tubing Recommendations

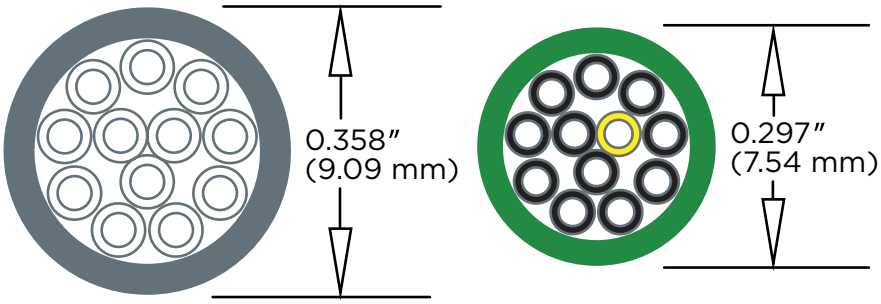
- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero halogen wrap simplifies wire harnessing, cabling, and bundling



- UL AWM 21959 (90°C /600 VRMS)
- UL Oil Res I
- UL Sunlight Resistant
- CSA AWM I/II A/B FT2
- IEC 60332-1 flame behavior
- IEC 60332-2 flame behavior
- IEC 60754-2 Acid Gas Generation
- IEC 60228 Class 6
- EU Low-Voltage Directive 2006/95/EC
- RoHS
- REACH

Approvals

20 AWG (0.523 mm²) 12-Conductor Unshielded Cable

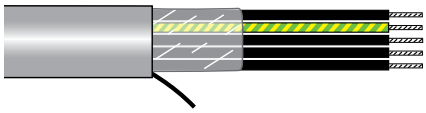


Traditional PUR Cable

EcoFlex PUR

EcoFlex® PUR

600 V Unshielded, Multiconductor



UL AWM 21959 (90°C / 600 VRMS)
CSA AWM I/II A/B FT2

Operating Temperature

- -40°C to 85°C (flexing)
- -50°C to 90°C (stationary)

Conductor Color Code

- Black and numbered, with one green/yellow, except where noted

Materials

- Finely stranded tinned copper
- mPPE insulation
- PUR, zero halogen jacket, slate

Bend Radius

- 6 x OD (flexing)
- 4 x OD (stationary)

Availability

100 ft (30.5 m)
Bulk (Min. 1,000 ft (305 m))

28 AWG (0.09 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80001	2	0.140	3.56	0.032	0.81
80002	3	0.146	3.71	0.032	0.81

26 AWG (0.15 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80003	2	0.150	3.81	0.032	0.81
80004	3	0.156	3.96	0.032	0.81
80005	5	0.179	4.55	0.032	0.81
80006	7	0.192	4.88	0.032	0.81
80007	9	0.231	5.87	0.032	0.81

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80008	2	0.158	4.01	0.032	0.81
80009	3	0.165	4.19	0.032	0.81
80010	5	0.190	4.83	0.032	0.81
80011	7	0.204	5.18	0.032	0.81
80012	9	0.247	6.27	0.032	0.81
80013	10	0.248	6.30	0.032	0.81

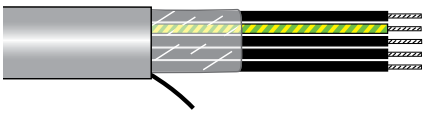
22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80014	2	0.172	4.37	0.032	0.81
80015	3	0.180	4.57	0.032	0.81
80016	4	0.195	4.95	0.032	0.81
80017	6	0.225	5.72	0.032	0.81
80018	9	0.275	6.98	0.032	0.81
80019	10	0.276	7.01	0.032	0.81

EcoFlex® PUR

600 V Unshielded, Multiconductor



UL AWM 21959 (90°C / 600 VRMS)
CSA AWM I/II A/B FT2

Operating Temperature

- -40°C to 85°C (flexing)
- -50°C to 90°C (stationary)

Conductor Color Code

- Black and numbered, with one green/yellow, except where noted

Materials

- Finely stranded tinned copper
- mPPE insulation
- PUR, zero halogen jacket, slate

Bend Radius

- 6 x OD (flexing)
- 4 x OD (stationary)

Availability

100 ft (30.5 m)
Bulk (Min. 1,000 ft (305 m))

20 AWG (0.52 mm²)

Stranding: 26/34 (26 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80020	2	0.178	4.52	0.032	0.81
80021	3	0.187	4.75	0.032	0.81
80022	5	0.217	5.51	0.032	0.81
80023	6	0.234	5.94	0.032	0.81
80024	7	0.234	5.94	0.032	0.81
80025	9	0.287	7.29	0.032	0.81
80026	12	0.297	7.54	0.032	0.81
80027	18	0.344	8.74	0.032	0.81
80028	20	0.361	9.17	0.032	0.81
80029	25	0.398	10.11	0.032	0.81
80030	30	0.421	10.69	0.032	0.81
80031	36	0.454	11.53	0.032	0.81

18 AWG (0.83 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80032	2	0.202	5.13	0.032	0.81
80033	3	0.213	5.41	0.032	0.81
80034	4	0.231	5.87	0.032	0.81
80035	5	0.250	6.35	0.032	0.81
80036	7	0.271	6.88	0.032	0.81
80037	9	0.334	8.48	0.032	0.81
80038	12	0.347	8.81	0.032	0.81
80039	18	0.405	10.29	0.032	0.81
80040	25	0.470	11.94	0.032	0.81

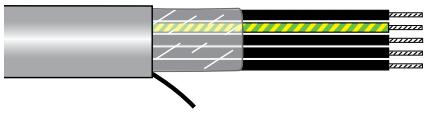
16 AWG (1.31 mm²)

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80041	2	0.228	5.79	0.032	0.81
80042	3	0.241	6.12	0.032	0.81
80043	4	0.263	6.68	0.032	0.81
80044	5	0.285	7.24	0.032	0.81
80045	7	0.310	7.87	0.032	0.81
80046	9	0.386	9.80	0.032	0.81
80047	12	0.401	10.19	0.032	0.81
80048	18	0.470	11.94	0.032	0.81
80049	25	0.548	13.92	0.032	0.81
80050	36	0.672	17.07	0.053	1.35

EcoFlex® PUR

600 V Unshielded, Multiconductor



UL AWM 21959 (90°C / 600 VRMS)
CSA AWM I/II A/B FT2

Operating Temperature

- -40°C to 85°C (flexing)
- -50°C to 90°C (stationary)

Conductor Color Code

- Black and numbered, with one green/yellow, except where noted

Materials

- Finely stranded tinned copper
- mPPE insulation
- PUR, zero halogen jacket, slate

Bend Radius

- 6 x OD (flexing)
- 4 x OD (stationary)

Availability

100 ft (30.5 m)
Bulk (Min. 1,000 ft (305 m))

14 AWG (2.11 mm²)

Stranding: 105/34 (105 x 0.16 mm)
Insulation thickness: 0.013 (0.33 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80052	3	0.275	6.98	0.032	0.81
80053	4	0.301	7.65	0.032	0.81
80054	5	0.329	8.36	0.032	0.81
80055	7	0.358	9.09	0.032	0.81
80056	9	0.449	11.40	0.032	0.81
80057	12	0.467	11.86	0.032	0.81
80058	18	0.550	13.97	0.032	0.81
80059	25	0.686	17.42	0.053	1.35

12 AWG (3.38 mm²)

Stranding: 168/34 (168 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80060	3	0.357	9.07	0.032	0.81
80061	4	0.393	9.98	0.032	0.81
80062	5	0.432	10.97	0.032	0.81
80063	7	0.473	12.01	0.032	0.81
80064	9	0.642	16.31	0.053	1.35

10 AWG (5.21 mm²)

Stranding: 259/34 (259 x 0.16 mm)
Insulation thickness: 0.020 (0.51 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80065	3	0.481	12.23	0.053	1.35
80066	4	0.528	13.41	0.053	1.35
80067	5	0.577	14.66	0.053	1.35
80068	7	0.630	16.00	0.053	1.35

EcoFlex® PUR

600 V Braid Shield, Multiconductor



UL AWM 21959 (90°C / 600 VRMS)
CSA AWM I/II A/B FT2

Operating Temperature

- -40°C to 85°C (flexing)
- -50°C to 90°C (stationary)

Conductor Color Code

- Black and numbered, with one green/yellow, except where noted

Materials

- Finely stranded tinned copper
- mPPE insulation
- Tinned copper braid, 85% coverage
- PUR, zero halogen jacket, slate

Bend Radius

- 6 x OD (flexing)
- 4 x OD (stationary)

Availability

100 ft (30.5 m)
Bulk (Min. 1,000 ft (305 m))

28 AWG (0.09 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80101	2	0.168	4.27	0.032	0.81
80102	3	0.174	4.42	0.032	0.81

26 AWG (0.15 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80103	2	0.178	4.52	0.032	0.81
80104	3	0.184	4.67	0.032	0.81
80105	4	0.196	4.98	0.032	0.81
80106	6	0.220	5.59	0.032	0.81
80107	8	0.246	6.25	0.032	0.81

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80108	2	0.186	4.72	0.032	0.81
80109	3	0.193	4.90	0.032	0.81
80110	5	0.218	5.54	0.032	0.81
80111	7	0.232	5.89	0.032	0.81
80112	9	0.275	6.98	0.032	0.81
80113	10	0.276	7.01	0.032	0.81

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80114	2	0.200	5.08	0.032	0.81
80115	3	0.208	5.28	0.032	0.81
80116	5	0.223	5.66	0.032	0.81
80117	7	0.253	6.43	0.032	0.81
80118	9	0.303	7.70	0.032	0.81
80119	10	0.304	7.72	0.032	0.81

EcoFlex® PUR

600 V Braid Shield, Multiconductor



UL AWM 21959 (90°C / 600 VRMS)
CSA AWM I/II A/B FT2

Operating Temperature

- -40°C to 85°C (flexing)
- -50°C to 90°C (stationary)

Conductor Color Code

- Black and numbered, with one green/yellow, except where noted

Materials

- Finely stranded tinned copper
- mPPE insulation
- Tinned copper braid, 85% coverage
- PUR, zero halogen jacket, slate

Bend Radius

- 6 x OD (flexing)
- 4 x OD (stationary)

Availability

100 ft (30.5 m)
Bulk (Min. 1000 ft (305 m))

20 AWG (0.52 mm²)

Stranding: 26/34 (26 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80120	2	0.206	5.23	0.032	0.81
80121	3	0.215	5.46	0.032	0.81
80122	5	0.245	6.22	0.032	0.81
80123	6	0.262	6.65	0.032	0.81
80124	7	0.262	6.65	0.032	0.81
80125	9	0.315	8.00	0.032	0.81
80126	12	0.325	8.25	0.032	0.81
80127	18	0.372	9.45	0.032	0.81
80128	20	0.389	9.88	0.032	0.81
80129	25	0.426	10.82	0.032	0.81
80130	30	0.449	11.40	0.032	0.81
80131	36	0.488	12.40	0.032	0.81

18 AWG (0.83 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80132	2	0.223	5.66	0.032	0.81
80133	3	0.241	6.12	0.032	0.81
80134	4	0.259	6.58	0.032	0.81
80135	5	0.278	7.06	0.032	0.81
80136	7	0.299	7.59	0.032	0.81
80137	9	0.362	9.19	0.032	0.81
80138	12	0.375	9.53	0.032	0.81
80139	18	0.433	11.00	0.032	0.81
80140	25	0.504	12.80	0.032	0.81

16 AWG (1.31 mm²)

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80141	2	0.256	6.50	0.032	0.81
80142	3	0.269	6.83	0.032	0.81
80143	4	0.291	7.39	0.032	0.81
80144	5	0.313	7.95	0.032	0.81
80145	7	0.338	8.59	0.032	0.81
80146	9	0.414	10.52	0.032	0.81
80147	12	0.429	10.90	0.032	0.81
80148	18	0.504	12.80	0.032	0.81
80149	25	0.624	15.85	0.053	1.35

EcoFlex® PUR

600 V Braid Shield, Multiconductor



UL AWM 21959 (90°C / 600 VRMS)
CSA AWM I/II A/B FT2

Operating Temperature

- -40°C to 85°C (flexing)
- -50°C to 90°C (stationary)

Conductor Color Code

- Black and numbered, with one green/yellow, except where noted

Materials

- Finely stranded tinned copper
- mPPE insulation
- Tinned copper braid, 85% coverage
- PUR, zero halogen jacket, slate

Bend Radius

- 6 x OD (flexing)
- 4 x OD (stationary)

Availability

100 ft (30.5 m)
Bulk (Min. 1,000 ft (305 m))

14 AWG (2.11 mm²)

Stranding: 105/34 (105 x 0.16 mm)
Insulation thickness: 0.013 (0.33 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80150	3	0.303	7.70	0.032	0.81
80151	4	0.329	8.36	0.032	0.81
80152	5	0.357	9.07	0.032	0.81
80153	7	0.386	9.80	0.032	0.81
80154	9	0.483	12.27	0.032	0.81
80155	12	0.501	12.73	0.032	0.81
80156	18	0.626	15.90	0.053	1.35
80157	25	0727	18.47	0.053	1.35

12 AWG (3.38 mm²)

Stranding: 168/34 (168 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80158	3	0.385	9.78	0.032	0.81
80159	4	0.421	10.69	0.032	0.81
80160	5	0.460	11.68	0.032	0.81
80161	7	0.507	12.88	0.032	0.81
80162	9	0.676	17.17	0.053	1.35

10 AWG (5.21 mm²)

Stranding: 259/34 (259 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
80163	3	0.509	12.93	0.053	1.35
80164	4	0.562	14.27	0.053	1.35
80165	5	0.611	15.52	0.053	1.35
80166	7	0.644	16.36	0.053	1.35

Alpha Wire Industrial



Medical Equipment

Industrial Automation

Semi-conductor Equipment

Aerospace and Defence

New Energy

Consumer Electronics

Alpha Wire Industrial Series

From the factory floor to process control, the Alpha Wire Industrial Series (AWIS) cable line is well suited to the widest range of industrial applications. We offer a variety of cables for general needs, such as control wiring in stationary and moving components. We also offer application-specific configurations for use with drives, servo systems, and factory protocols.

AWIS cables are crafted for rugged, reliable performance in your industrial equipment. They are designed to handle even your toughest applications, whether your need is continuous flexing, superior oil and chemical resistance, or excellent mechanical and electrical performance.

AWIS cables give reliable performance

- TC-ER, PLTC, MTW, and WTTC ratings
- Oil and chemical resistance
- UV resistance
- Direct burial
- Abrasion resistance
- EMI protection
- High flex cycling

FIT® Tubing Recommendations

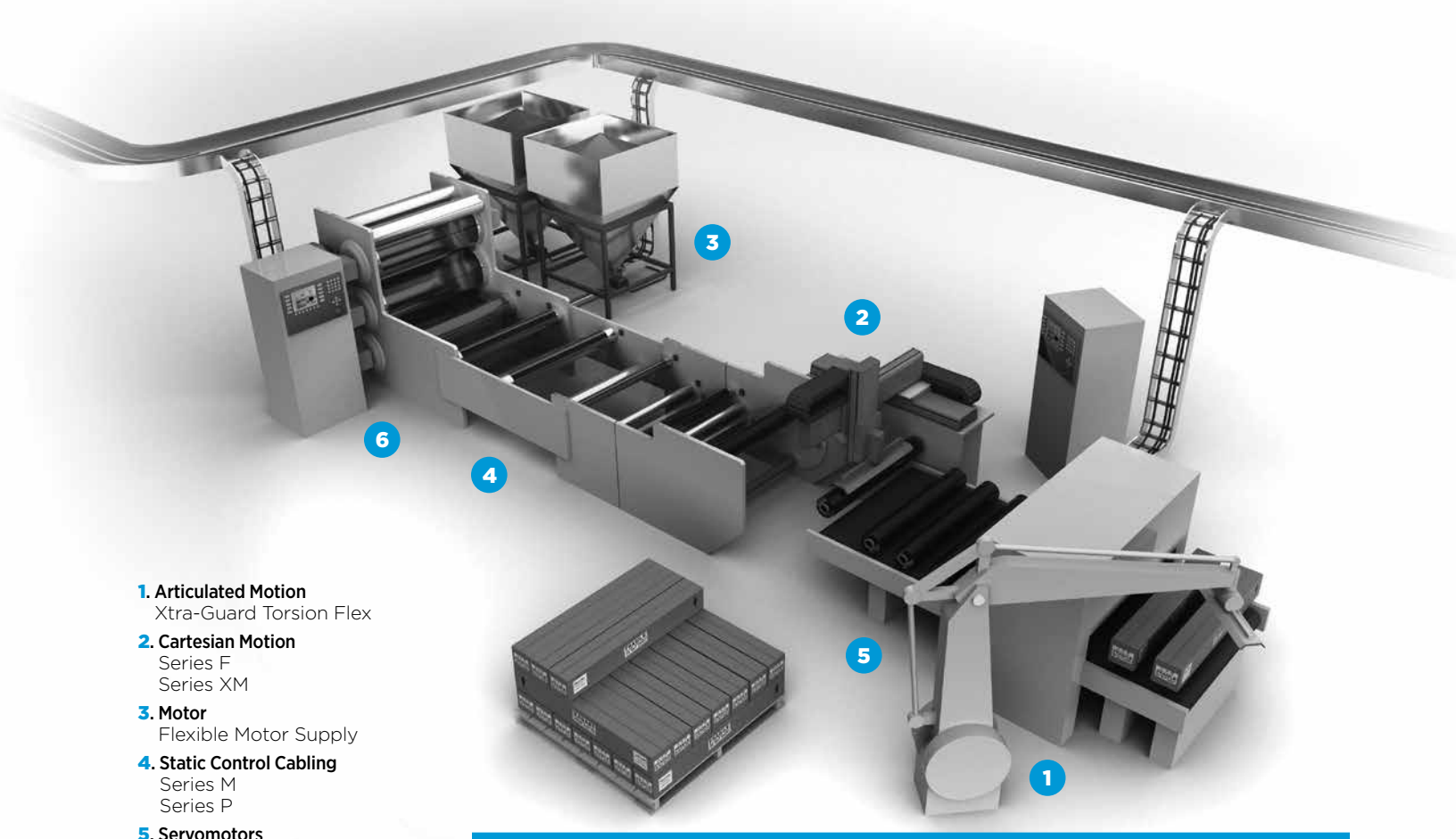
- FIT-600: Highly flexible, cross-linked elastomer
- FIT-650: Chemical- and temperature-reisistant fluoroelastomer

Applications:

- Medium to high-flex equipment
- Factory equipment interconnects
- Robotics
- Machine tools
- Automotive assembly equipment
- Conveyor systems
- Control panels
- Transfer shuttles
- Solar farms
- Automated pick-and-place systems
- PLC-controlled equipment
- Automated handling systems
- Control/monitoring of speed and position

Industrial Ethernet Cable	Reliable connection for industrial Ethernet
Series M Control Cable	Excellent mechanical and electrical performance for stationary cable trays
Series P Enhanced Stationary Control Cable	Superior oil and chemical resistance plus easier routing and installation
Series XM Flexible Control Cable	Tough PVC cable for continuous flex conrol applications
Series F Continuous Flex Control Cable	Rated for up to 20 million rolling flex cycles
Series SF Servo Control Cable	Maximum flexibility in servo control and power

Reliable productivity from the factory floor to process controls



1. **Articulated Motion**
   Xtra-Guard Torsion Flex
2. **Cartesian Motion**
   Series F
   Series XM
3. **Motor**
   Flexible Motor Supply
4. **Static Control Cabling**
   Series M
   Series P
5. **Servomotors**
   Series SF
6. **Industrial Ethernet**
   Industrial Ethernet Cable

Alpha Wire's industrial cables are well suited to the widest range of industrial applications, from the factory floor to process controls and wind turbines. We offer a range of cables for general needs, such as control wiring in stationary and moving components. We also offer application-specific configurations for use with motors, drives, and servo systems.

General Application	Cable	Advantages
Stationary	Series M	PVC jacket Oil resistant (Oil Res. I)
Stationary/ Minimal Flex	Series P	TPE jacket Improved oil and chemical resistance (Oil Res. I/II)
Moderate Flexing	Xtra-Guard Standard Flex (65000 Series)	1 million flex cycles PVC jacket
High Flexing	Series XM	12 million flex cycles Oil resistant (Oil Res. I)
	Series F	20 million flex cycles Improved oil and chemical resistance (Oil Res. I/II)
	Xtra-Guard Continuous Flex Data (86000 Series)	6 million flex cycles PVC jacket
	Xtra-Guard Continuous Flex Control (85000 Series)	14 million flex cycles PVC jacket
	Xtra-Guard Torsional Flex (87000 Series)	1 million flex cycles TPE insulation, polyurethane jacket
Servomotors/ Drives	Series SF	TPE jacket Enhanced flexibility for easy installation and routing Improved oil and chemical resistance (Oil Res. I/II) With or without brake/ground pairs
Industrial Ethernet	Industrial Ethernet	Full series of C5, C5E, C6 and C7 Cables Static, torsion flex, continuous flex Up to 10M continuous flex and 3M torsion flex life cycles
Motor Supply	Flexible Motor Supply	PVC jacket Oil resistant (Oil Res. I) Suited to light-duty flexing and VFD applications

Superior Cable by Design

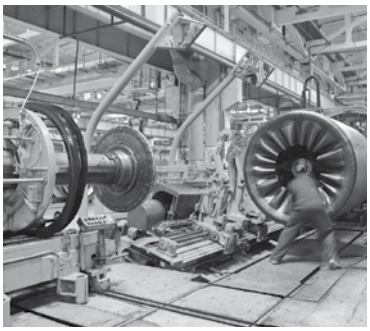
Alpha industrial cables are designed to perform better, providing consistent, reliable operation. The result is more uptime, fewer errors, and precise operation of equipment. Our cables are designed and built to uncompromising standards so you get consistency and uniformity in every cable.

Superior Service by Design

Beyond our well-earned reputation for high-quality, premium-grade products, our commitment to service aims to make specifying and getting the cable you need fast and easy.

- Global availability
- Large in-stock inventory
- Flexible ordering, with small and large put-ups available
- Fast shipping—usually the same day
- 1,500 distributor locations worldwide
- Engineering support
- Extensive on-line tools to select and specify cable
- Custom designs with on-line Cable Design Center™
- Fast turnarounds on custom designs





Specific Application	Connection	Alpha Cables
Stationary	Control panel to machine	Series M, Series P
Cartesian Robots	Source power	Series M, Series P
	Flex track	Series XM, Series F, XG Flex 85000, Series SF
	Tool mechanism	XG Flex 87000 Series
Transfer Shuttles	Source power	Series M, Series P
	Flex track	Series XM, Series F, XG Flex 85000, Series SF
	Robot	XG Flex 87000 Series, for end-of-arm tool
	Servomotor	Series SF
Gantry	Source power	Series M, Series P
	Track	Series XM, Series F, XG Flex 85000, Series SF
	Robot	XG Flex 87000 Series for end-of-arm tool
	Servomotor	Series SF
Pick and Place	Source power	XG Flex 87000 Series for end-of-arm tool
	Flex track	Series XM, Series F, XG Flex 85000 Series
	Servomotor	Series SF
	End-of-arm tool	XG Flex 87000 Series
Machine Tools	Source power	Series M, Series P
	Internal XYZ axis	Series XM, Series F, XG Flex 85000, Series SF
	Automated tool changer	Series XM, Series F, XG Flex 85000/86000 Series
	Servomotor	Series SF
	Data transmission	Industrial Ethernet Cable
Conveying Systems	Source power	Series M, Series P, XG Flex 65000 Series
	Data transmission	Industrial Ethernet Cable
	Servomotor	Series SF
	Motor supply	Flexible Motor Supply
Packaging/ Material Handling	Source power	Series M, Series P
	Data transmission	Industrial Ethernet Cable
	Servomotor	Series SF
	Motor power/control	Motor Supply, Series M, Series P

Industrial Ethernet Cable

Continuous flex and torsion flex Industrial Ethernet Cable 300 V, Foil + Braid Shield, Cat 5, Cat 5e



74001 ANSI/TIA-568-C.2 FT-2 UL AWM 20549
74005 IEC 60811-2-1 FT-2
74007 IEC 60811-2-1

Operation Temperature

- 74001/74005 -40°C to 80°C
- 74007 -40°C to 90°C

Materials

- Stranded tinned copper conductor
- 74001/74007 PO insulation
- 74005 PP insulation
- Supra-Shield foil + braid shield:
  Aluminum/polyester foil with 25% overlap min.
  Tinned copper braid,
  85% coverage min.
- TPU jacket, 74001 /74005 Teal,
  74007 black

Bending Radius

- 74001/74007
  10 x OD (flexing)
  5 x OD (stationary)
- 74005
  5 x OD (flexing)
  4 x OD (stationary)

Flex Cycles

- 74001: Continuous 5M, Torsion 1M
- 74005: Torsion 2M

Availability

500 ft (152 m)

Cat 5e PO

22 AWG (0.32 mm²)					
Stranding: 19/34 (19 x 0.16 mm) Insulation thickness: 0.016 (0.41 mm)					
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
74001	4	0.256	6.50	0.031	0.79
74007	4	0.264	6.71	0.035	0.89

Cat 5 PP

22 AWG (0.32 mm²)					
Stranding: 19/34 (19 x 0.16 mm) Insulation thickness: 0.0145 (0.37 mm)					
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
74005	4	0.256	6.50	0.031	0.79

Conductor Color Code	
1 White	3 Yellow
2 Blue	4 Orange

Industrial Ethernet Cable

Static Industrial Ethernet Cable
300V, Unshielded, Cat 5, Cat 5e, C6



ANSI/TIA-568-C.2, OIL RES I, SUN RES 74008, 74009: FT-4, NEMA WC-63.1, UL CMR 74010: FT-1

Operation Temperature

- 74008 -10°C to 75°C
- 74009/74010 -25°C to 75°C

Materials

- Stranded tinned copper conductor
- PO insulation
- PVC jacket, black

Bending Radius

- 4 x OD

Availability

500 ft (152 m)

Cat 5e

24 AWG (0.21mm²)

Stranding: Solid
Insulation thickness: 0.009 (0.23 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
74008	4	0.285	7.24	0.035	0.89

Cat 5e

22 AWG (0.32mm²)

Stranding: Solid
Insulation thickness: 0.011 (0.28 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
74009	4	0.301	7.65	0.043	1.09

Cat 6

23 AWG (0.26mm²)

Stranding: Solid
Insulation thickness: 0.009 (0.23 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
74010	4	0.475*0.265	12.07*6.73	0.035	0.89

Conductor Color Code

1 Blue - White/Blue	3 Green - White/Green
2 Orange - White/Orange	4 Brown - White/Brown

Industrial Ethernet Cable

Flex Industrial Ethernet Cable
300V, Braid Shield, Cat 7



26 AWG (0.13mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
74004	4	0.268	6.81	0.028	0.71

ANSI/TIA-568-C.2
FT-2

Operation Temperature

- -40°C to 80°C

Conductor Color Code	
1 White - Blue	3 White - Green
2 White - Orange	4 White - Brown

Materials

- Stranded bare copper conductor
- PE Insulation
- Individual pair shield: Alum/Mylar tape, 20% overlap min, foil facing out
  Tinned copper braid, 65% coverage min.
- ZH-PUR Jacket, black

Bending Radius

- 10 x OD (flexing)
  5 x OD (stationary)

Availability

500 ft (152 m)

Industrial Ethernet Cable

Flex Industrial Ethernet Cable
300V, Foil + Braid Shield, Cat 5e



74002/74003/74006
ANSI/TIA-568-C.2 EN 50173-1
74002 UL AWM 20549, FT-2
74006 FT-2
7602F AWM20626, FT-1,
SUN RES, VW-1

Operation Temperature

- -40°C to 80°C

Materials

- 74002/74003/74006
  Bare copper conductor and
  PP insulation
- 7602F
  Copper alloys conductor and
  PO insulation
- Alum/Mylar Tape, 20% overlap min,
  foil facing out
  tinned copper braid,
  80% coverage min.
  (7602F 85% coverage min.)
- Black jacket

Bending Radius

- 10 x OD (flexing)
  5 x OD (stationary)
  8 x OD (stationary) 7602F

Flex Cycles

- 74006: Continuous 2M, Torsion 1M
- 7602F: Continuous 10M

Availability

500 ft (152 m)
1,000 ft (305 m) 7602F only

TPU jacket

26 AWG (0.13mm²)					
Stranding: 7/34 (7 x 0.16 mm) Insulation thickness: 0.010 (0.25 mm)					
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
74002	2	0.236	5.99	0.031	0.79

PVC jacket

26 AWG (0.13mm²)					
Stranding: 7/34 (7 x 0.16 mm) Insulation thickness: 0.010 (0.25 mm)					
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
74003	2	0.236	5.99	0.031	0.79

TPU jacket

26 AWG (0.13mm²)					
Stranding: 19/38 (19 x 0.10 mm) Insulation thickness: 0.010 (0.25 mm)					
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
74006	4	0.252	6.40	0.031	0.79

TPE jacket

24 AWG (0.21mm²)					
Stranding: 7/32 (7 x 0.20 mm) Insulation thickness: 0.020 (0.51 mm)					
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
7602F	4	0.342	8.69	0.030	0.76

Conductor Color Code	
1 Blue - White/Blue	3 Green - White/Green
2 Orange - White/Orange	4 Brown - White/Brown

RoHS Compliant CA PROP 65

Industrial Ethernet Cable

Reliable Connection for Industrial Ethernet
300 V Unshielded, Cat 5e



ANSI/TIA-568-C.2 Cat 5e
UL CMR
UL 1666
CSA FT - 4

Operation Temperature

76010 & 76020
- -50°C to 75°C

76000
- -50°C to 125°C

Materials

- Strand tinned copper or bare copper conductor
- FEP or PP insulation
- TPE Jacket, black

Bending Radius

- 4 x OD

Availability

500 ft (152 m)
1,000 ft (305 m)

PP Insulation

24 AWG (0.23 mm² Strand/0.21mm² Solid)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.008 (0.20 mm)

Part No.	Pairs	Conductor	Nominal Diameter		Jacket Thickness	
			Inch	mm	Inch	mm
76020	4	7/32	0.247	6.27	0.035	0.89
76010	4	Solid	0.257	6.53	0.035	0.89

FEP Insulation

24 AWG (0.21mm² Solid)

Stranding: Solid
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Conductor	Nominal Diameter		Jacket Thickness	
			Inch	mm	Inch	mm
76000	4	Solid	0.257	6.53	0.035	0.89

Industrial Ethernet Cable

Reliable Connection for Industrial Ethernet
300 V Foil Shield, Cat 5e



24 AWG (0.23mm²)					
Stranding: 7/32 (7 x 0.20 mm) Insulation thickness: 0.010 (0.24 mm)					
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
75021	2	0.300	7.62	0.035	0.89
76021	4	0.305	7.75	0.035	0.89

ANSI/TIA-568-C.2 Cat 5e
UL CMR
UL 1666
CSA FT - 4

Operation Temperature

-50°C to 75°C

Materials

- Bare copper conductor
- PP insulation
- Alum/Mylar Tape, 25% overlap min, foil facing in
  24 AWG tinned copper drain wire
- TPE jacket, black

Bending Radius

- 8 x OD

Availability

500 ft (152 m)
1,000 ft (305 m)

Industrial Ethernet Cable

Reliable Connection for Industrial Ethernet
300 V Supra-Shield® Foil + Braid Shield, Cat 5e



ANSI/TIA-568-C.2 Cat 5e
UL CMR
UL 1666
CSA FT - 4

Operation Temperature

76012 & 76022
- -50°C to 75°C

75002 & 76002
- -50°C to 125°C

Materials

- Strand Tinned copper or bare copper conductor
- FEP or PP insulation
- Supra-Shield® Foil + Braid Shield
  Alum/Mylar/Alum Tape, 25% overlap min,
  24 AWG tinned copper drain wire
  tinned copper braid,
  80% coverage min.
- TPE jacket, black

Bending Radius

- 8 x OD

Availability

500 ft (152 m)
1,000 ft (305 m)

PP insulation

24 AWG (0.23 mm² Strand/0.21mm² Solid)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.014 (0.36 mm)

Part No.	Pairs	Conductor	Nominal Diameter		Jacket Thickness	
			Inch	mm	Inch	mm
76022	4	7/32	0.325	8.26	0.035	0.89
76012	4	Solid	0.325	8.26	0.035	0.89

FEP insulation

24 AWG (0.23 mm² Strand/0.21mm² Solid)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Conductor	Nominal Diameter		Jacket Thickness	
			Inch	mm	Inch	mm
75002	2	7/32	0.325	8.26	0.035	0.89
76002	4	Solid	0.325	8.26	0.035	0.89

High Flex Industrial Ethernet Cable

Reliable Connection for Industrial Ethernet
600 V Unshielded, Cat 5e



24 AWG (0.23mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.0075 (0.19 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
75030	2	0.24	6.10	0.032	0.81

24 AWG (0.23mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.0085 (0.22 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
76030	4	0.25	6.35	0.032	0.81

ANSI/TIA-568-2.D Cat 5e
UL CM, CMX-Outdoor
UL AWM 2463, SUN RES
ODVA EtherNet/IP (TM)
Compliant Category 5e
OIL RES II

Operation Temperature

- -40°C to 80°C

Materials

- Strand tinned copper conductor
- HDPE insulation
- TPE jacket, Teal

Bending Radius

- 17 x OD (flexing)
  5 x OD (stationary)

Flex Cycles

- Continuous 10M, Torsion 3M

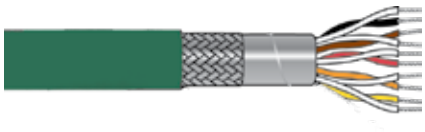
Availability

100 ft (30.5 m)
1,000 ft (305 m)

RoHS Compliant CA PROP 65

High Flex Industrial Ethernet Cable

Reliable Connection for Industrial Ethernet
600 V Supra-Shield® Foil + Braid Shield, Cat 5e



ANSI/TIA-568-2.D Cat 5e
UL CM, CMX-Outdoor
UL AWM 2463, SUN RES
ODVA EtherNet/IP (TM) Compliant Category 5e; OIL RES II
75032: UL PLTC, ITC
PROFINET TYPE B&C
75033: UL PLTC, ITC
75034: UL PLTC

Operation Temperature

- -40°C to 80°C

Materials

- Strand tinned copper conductor
- HDPE insulation
- Core Wrap: FPP tap, 25% overlap, min.
- Supra-Shield Foil + Braid Shield: Alum/Mylar Tape, 25% overlap min, foil facing out
  Tinned copper braid,
  75% coverage min.
- TPE jacket, Teal (75032 Green)

Bending Radius

- 75031: 6 x OD (flexing)
  8 x OD (stationary)
- 76031: 14 x OD (flexing)
  4 x OD (stationary)
- 75032&75033&75034:
  7 x OD (flexing)
  8 x OD (stationary)

Flex Cycles

- Continuous 10M, Torsion 3M

Availability

100 ft (30.5 m)
1,000 ft (305 m)

CM Rating

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
75031	2	0.260	6.60	0.032	0.81

CMR Rating

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
76031	2	0.30	7.62	0.035	0.89

PLTC, ITC, Profinet Type B&C

22 AWG (0.32mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.0135 (0.34 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
75032	2	0.31	7.87	0.040	1.02

PLTC, ITC

22 AWG (0.32mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.0135 (0.34 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
75033	2	0.31	7.87	0.040	1.02

PLTC

22 AWG (0.32mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.0135 (0.34 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
75034	2	0.31	7.87	0.040	1.02

High Flex Industrial Ethernet Cable

Reliable Connection for Industrial Ethernet
600 V Supra-Shield® Foil + Braid Shield, Cat 6A



ANSI/TIA-568-2.D Cat 6A
UL CM, CMX-Outdoor
UL AWM 2463, SUN RES
ODVA EtherNet/IP (TM)
Compliant Category 5e
OIL RES II

Operation Temperature

- -40°C to 80°C

Materials

- Strand tinned copper conductor
- HDPE insulation
- Core wrap: FPP tap, 25% overlap, min.
- Supra-Shield Foil + Braid Shield:
  Alum/Mylar Tape, 25% overlap min, foil facing out
  Tinned copper braid,
  75% coverage min.
- TPE jacket, Teal

Bending Radius

- 76032: 16 x OD (flexing)
  8 x OD (stationary)
- 76033:18 x OD (flexing)
  4 x OD (stationary)

Flex Cycles

- Continuous 10M, Torsion 3M

Availability

100 ft (30.5 m)
1,000 ft (305 m)

24 AWG (0.23mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.0105 (0.27 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
76032	4	0.322	8.18	0.035	0.89

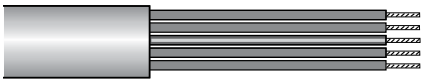
26 AWG (0.13mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.0075 (0.19 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
76033	4	0.29	7.37	0.035	0.89

Series M Control Cable

Stationary or Minimal Flex Applications
600 V Unshielded, Multiconductor



UL TC-ER
UL MTW
UL WTTC (1000 V)
UL PLTC (300 V)
CSA AWM I/II A/B FT4
CE LVD 73/23/EEC Amend. 93/68/EEC

Operating Temperature

- -5°C to 90°C (flexing)
- -25°C to 90°C (stationary)

Conductor Color Coding

- Red, blue, or black insulation*, numbered
  1 green/yellow green conductor 1 white-striped neutral
  (12 conductors or greater)

Materials

- Finely stranded bare copper conductors
- PVC/nylon insulation
- Slate PVC jacket

Availability

Bulk, cut to length

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13z mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
M18103KW	M18103LW	M18103RW	3	0.301	7.65	0.050	1.27
M18104KW	M18104LW	M18104RW	4	0.326	8.28	0.050	1.27
M18105KW	M18105LW	M18105RW	5	0.353	8.97	0.050	1.27
M18107KW	M18107LW	M18107RW	7	0.381	9.68	0.050	1.27
M18112KW	M18112LW	M18112RW	12	0.515	13.08	0.065	1.65
M18117KW	M18117LW	M18117RW	17	0.594	15.09	0.065	1.65
M18122KW	M18122LW	M18122RW	22	0.651	16.54	0.065	1.65
M18125KW	M18125LW	M18125RW	25	0.699	17.75	0.065	1.65
M18134KW	M18134LW	M18134RW	34	0.777	19.74	0.065	1.65
M18142KW	M18142LW	M18142RW	42	0.874	22.20	0.085	2.15
M18149KW	M18149LW	M18149RW	49	0.923	23.44	0.085	2.15
M18165KW	M18165LW	M18165RW	65	1.029	26.14	0.085	2.15

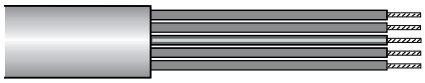
16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
M16103KW	M16103LW	M16103RW	3	0.323	8.20	0.050	1.27
M16104KW	M16104LW	M16104RW	4	0.350	8.89	0.050	1.27
M16105KW	M16105LW	M16105RW	5	0.380	9.65	0.050	1.27
M16107KW	M16107LW	M16107RW	7	0.421	10.69	0.055	1.39
M16112KW	M16112LW	M16112RW	12	0.557	14.14	0.065	1.65
M16117KW	M16117LW	M16117RW	17	0.644	16.35	0.065	1.65
M16119KW	M16119LW	M16119RW	19	0.644	16.35	0.065	1.65
M16122KW	M16122LW	M16122RW	22	0.707	17.95	0.065	1.65
M16125KW	M16125LW	M16125RW	25	0.761	19.32	0.065	1.65
M16133KW	M16133LW	M16133RW	33	0.857	21.76	0.085	2.15
M16142KW	M16142LW	M16142RW	42	0.950	24.13	0.085	2.15
M16149KW	M16149LW	M16149RW	49	1.005	25.52	0.085	2.15
M16165KW	M16165LW	M16165RW	65	1.122	28.49	0.085	2.15

Series M Control Cable

Stationary or Minimal Flex Applications
600 V Unshielded, Multiconductor



UL TC-ER
UL MTW
UL WTTC (1000 V)
UL PLTC (300 V)
CSA AWM I/II A/B FT4
CE LVD 73/23/EEC Amend. 93/68/EEC

Operating Temperature

- -5°C to 90°C (flexing)
- -25°C to 90°C (stationary)

Conductor Color Coding

- Red, blue, or black insulation*, numbered
  1 green/yellow green conductor 1 white-striped neutral
  (12 conductors or greater, except 14 AWG)

Materials

- Finely stranded bare copper conductors
- PVC/nylon insulation
- Slate PVC jacket

Availability

Bulk, cut to length

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

14 AWG (2.09 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
M14103KW	M14103LW	M14103RW	3	0.353	8.97	0.050	1.27
M14104KW	M14104LW	M14104RW	4	0.384	9.75	0.050	1.27
M14105KW	M14105KW	M14105RW	5	0.428	10.87	0.055	1.39
M14107KW	M14107LW	M14107RW	7	0.483	12.26	0.065	1.65
M14112KW	M14112LW	M14112RW	12	0.615	15.62	0.065	1.65
M14125KW	M14125LW	M14125RW	25	0.887	22.52	0.085	2.15

12 AWG (3.31 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
M12104KW	M12104LW	M12104RW	4	0.44	11.17	0.055	1.39
M12105KW	M12105LW	M12105RW	5	0.499	12.67	0.065	1.65
M12107KW	M12107LW	M12107RW	7	0.540	13.71	0.065	1.65

10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
M10104KW	M10104LW	M10104RW	4	0.549	13.94	0.065	1.65
M10105KW	M10105LW	M10105RW	5	0.600	15.24	0.065	1.65
M10107KW	M10107LW	M10107RW	7	0.652	16.56	0.065	1.65

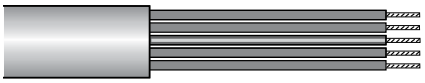
8 AWG (8.52 mm²)

Stranding: 168/30 (168 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm) PVC/0.006 (0.15 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
M08104KW	M08104LW	M08104RW	4	0.724	18.38	0.065	1.65
M08105KW	M08105LW	M08105RW	5	0.795	20.19	0.065	1.65

Series P Enhanced Stationary Control Cable

Stationary or Minimal Flex Applications
600 V Unshielded, Multiconductor



UL TC-ER, PLTC
UL TFFN (18 – 16 AWG)
UL THHN (14 – 8 AWG)
CSA AWM I/II A/B FT4
CE LVD 73/23/EEC Amend. 93/68/EEC

Operating Temperature

- -25°C to 90°C

Voltage Rating

- 600 V (TC-ER)
- 300 V (PLTC)

Conductor Color Coding

- Red, blue, or black insulation*, numbered
  1 green/yellow green conductor 1 white-striped neutral
  (12 conductors or greater)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Oil-resistant thermoplastic elastomer jacket

Availability

Bulk, cut to length

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.013 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
MP18103KW	MP18103LW	MP18103RW	3	0.313	7.95	0.050	1.27
MP18104KW	MP18104LW	MP18104RW	4	0.338	8.58	0.050	1.27
MP18105KW	MP18105LW	MP18105RW	5	0.365	9.27	0.050	1.27
MP18107KW	MP18107LW	MP18107RW	7	0.393	9.98	0.050	1.27
MP18112KW	MP18112LW	MP18112RW	12	0.527	13.39	0.065	1.65
MP18117KW	MP18117LW	MP18117RW	17	0.606	15.39	0.065	1.65
MP18122KW	MP18122LW	MP18122RW	22	0.663	16.84	0.065	1.65
MP18125KW	MP18125LW	MP18125RW	25	0.711	18.06	0.065	1.65
MP18134KW	MP18134LW	MP18134RW	34	0.789	20.04	0.065	1.65
MP18142KW	MP18142LW	MP18142RW	42	0.886	22.50	0.085	2.16
MP18149KW	MP18149LW	MP18149RW	49	0.935	23.75	0.085	2.16
MP18165KW	MP18165LW	MP18165RW	65	1.041	26.44	0.085	2.16

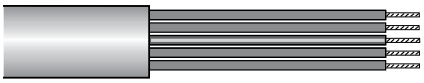
16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41mm) PVC/0.005 (0.013 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
MP16103KW	MP16103LW	MP16103RW	3	0.335	8.51	0.050	1.27
MP16104KW	MP16104LW	MP16104RW	4	0.362	9.19	0.050	1.27
MP16105KW	MP16105LW	MP16105RW	5	0.392	9.96	0.050	1.27
MP16107KW	MP16107LW	MP16107RW	7	0.423	10.74	0.050	1.27
MP16112KW	MP16112LW	MP16112RW	12	0.569	14.45	0.065	1.65
MP16117KW	MP16117LW	MP16117RW	17	0.656	16.66	0.065	1.65
MP16122KW	MP16122LW	MP16122RW	22	0.719	18.26	0.065	1.65
MP16125KW	MP16125LW	MP16125RW	25	0.773	19.63	0.065	1.65
MP16133KW	MP16133LW	MP16133RW	33	0.869	22.07	0.085	2.16
MP16142KW	MP16142LW	MP16142RW	42	0.962	24.43	0.085	2.16
MP16149KW	MP16149LW	MP16149RW	49	1.017	25.83	0.085	2.16
MP16165KW	MP16165LW	MP16165RW	65	1.134	28.80	0.085	2.16

Series P Enhanced Stationary Control Cable

Stationary or Minimal Flex Applications
600 V Unshielded, Multiconductor



UL TC-ER, PLTC
UL TFFN (18 – 16 AWG)
UL THHN (14 – 8 AWG)
CSA AWM I/II A/B FT4
CE LVD 73/23/EEC Amend. 93/68/EEC

Operating Temperature

- -25°C to 90°C

Voltage Rating

- 600 V (TC-ER)
- 300 V (PLTC)

Conductor Color Coding

- Red, blue, or black insulation*, numbered
  1 green/yellow green conductor 1 white-striped neutral
  (12 conductors or greater)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Oil-resistant thermoplastic elastomer jacket

Availability

Bulk, cut to length

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.013 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
MP14104KW	MP14104LW	MP14104RW	4	0.396	10.06	0.050	1.27
MP14105KW	MP14105LW	MP14105RW	5	0.430	10.92	0.050	1.27
MP14107KW	MP14107LW	MP14107RW	7	0.495	12.57	0.065	1.65
MP14112KW	MP14112LW	MP14112RW	12	0.627	15.93	0.065	1.65
MP14125KW	MP14125LW	MP14125RW	25	0.899	22.83	0.085	2.16

12 AWG (3.31 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.013 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
MP12104KW	MP12104LW	MP12104RW	4	0.472	11.99	0.065	1.65
MP12105KW	MP12105LW	MP12105RW	5	0.511	12.98	0.065	1.65
MP12107KW	MP12107LW	MP12107RW	7	0.552	14.02	0.065	1.65

10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.013 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
MP10104KW	MP10104LW	MP10104RW	4	0.561	14.25	0.065	1.65
MP10105KW	MP10105LW	MP10105RW	5	0.612	15.54	0.065	1.65
MP10107KW	MP10107LW	MP10107RW	7	0.664	16.87	0.065	1.65

8 AWG (8.52 mm²)

Stranding: 168/30 (105 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm) PVC/0.005 (0.013 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
MP08104KW	MP08104LW	MP08104RW	4	0.736	18.69	0.065	1.65
MP08105KW	MP08105LW	MP08105RW	5	0.807	20.50	0.065	1.65

Series XM Flexible Control Cable

600/1000 V Unshielded, PVC/Nylon, PVC



Series XM Flexible Control Cable is the ideal choice for medium-to-high-flex applications. Featuring a premium-grade PVC jacket, Series XM offers a durable, oil-resistant construction that prevents contamination from hazardous fluids and protects against abrasion. Plus, its optimum flexibility and performance allows it to support a variety of industrial applications.

UL TC-ER (600 V)
UL WTTC (1000 V)
UL MTW (600 V)
CSA AWM I/II A/B FT4
CE compliant

Operating Temperature

- -5°C to 90°C (flexing)
- -30°C to 90°C (stationary)

Conductor Color Coding

- Chart KW, RW, LW (pages 504-506)
- Black, blue, or red* numbered conductors with one green/yellow ground conductor

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

Availability

Bulk, cut to length

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

18 AWG (0.83 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM1803R	XM1803L	XM1803K	3	0.308	7.82	0.050	1.27
XM1804R	XM1804L	XM1804K	4	0.333	8.46	0.050	1.27
XM1805R	XM1805L	XM1805K	5	0.360	9.14	0.050	1.27
XM1807R	XM1807L	XM1807K	7	0.418	10.62	0.050	1.27
XM1812R	XM1812L	XM1812K	12	0.485	12.32	0.050	1.27
XM1817R	XM1817L	XM1817K	17	0.597	15.16	0.065	1.65
XM1822R	XM1822L	XM1822K	22	0.656	16.66	0.065	1.65
XM1825R	XM1825L	XM1825K	25	0.717	18.21	0.065	1.65
XM1834R	XM1834L	XM1834K	34	0.775	19.69	0.065	1.65
XM1842R	XM1842L	XM1842K	42	0.874	22.20	0.085	2.16
XM1849R	XM1849L	XM1849K	49	0.965	24.51	0.085	2.16
XM1865R	XM1865L	XM1865K	65	1.052	26.72	0.085	2.16

16 AWG (1.31 mm²)

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM1603R	XM1603L	XM1603K	3	0.334	8.48	0.050	1.27
XM1604R	XM1604L	XM1604K	4	0.362	9.19	0.050	1.27
XM1605R	XM1605L	XM1605K	5	0.393	9.98	0.050	1.27
XM1607R	XM1607L	XM1607K	7	0.459	11.66	0.050	1.27
XM1612R	XM1612L	XM1612K	12	0.565	14.35	0.065	1.65
XM1617R	XM1617L	XM1617K	17	0.657	16.69	0.065	1.65
XM1619R	XM1619L	XM1619K	19	0.691	17.55	0.065	1.65
XM1622R	XM1622L	XM1622K	22	0.724	18.39	0.065	1.65
XM1625R	XM1625L	XM1625K	25	0.793	20.14	0.065	1.65
XM1633R	XM1633L	XM1633K	33	0.899	22.83	0.085	2.16
XM1642R	XM1642L	XM1642K	42	0.966	24.54	0.085	2.16
XM1649R	XM1649L	XM1649K	49	1.069	27.15	0.085	2.16
XM1665R	XM1665L	XM1665K	65	1.168	29.67	0.085	2.16

14 AWG (2.11 mm²)

Stranding: 105/34 (105 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM1403R	XM1403L	XM1403K	3	0.366	9.30	0.050	1.27
XM1404R	XM1404L	XM1404K	4	0.398	10.11	0.050	1.27
XM1405R	XM1405L	XM1405K	5	0.464	11.79	0.065	1.65
XM1407R	XM1407L	XM1407K	7	0.539	13.69	0.065	1.65
XM1412R	XM1412L	XM1412K	12	0.627	15.93	0.065	1.65

RoHS Compliant CA PROP 65

Series XM Flexible Control Cable

600/1000 V Unshielded, PVC/Nylon, PVC



Series XM Flexible Control Cable is the ideal choice for medium-to-high-flex applications. Featuring a premium-grade PVC jacket, Series XM offers a durable, oil-resistant construction that prevents contamination from hazardous fluids and protects against abrasion. Plus, its optimum flexibility and performance allows it to support a variety of industrial applications.

UL TC-ER (600 V)
UL WTTC (1000 V)
UL MTW (600 V)
CSA AWM I/II A/B FT4
CE compliant

Operating Temperature

- -5°C to 90°C (flexing)
- -30°C to 90°C (stationary)

Conductor Color Coding

- Chart KW, RW, LW (pages 504-506)
- Black, blue, or red* numbered conductors with one green/yellow ground conductor

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

Availability

Bulk, cut to length

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

12 AWG (3.38 mm²)

Stranding: 168/34 (168 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM1203R	XM1203L	XM1203K	3	0.431	10.95	0.050	1.27
XM1204R	XM1204L	XM1204K	4	0.501	12.73	0.065	1.65
XM1205R	XM1205L	XM1205K	5	0.545	13.84	0.065	1.65
XM1207R	XM1207L	XM1207K	7	0.640	16.26	0.065	1.65

10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM1003R	XM1003L	XM1003K	3	0.487	12.37	0.050	1.27
XM1004R	XM1004L	XM1004K	4	0.565	14.35	0.065	1.65
XM1005R	XM1005L	XM1005K	5	0.618	15.70	0.065	1.65
XM1007R	XM1007L	XM1007K	7	0.729	18.52	0.065	1.65

8 AWG (8.51 mm²)

Stranding: 168/30 (168 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm) PVC/0.006 (0.15 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM0803R	XM0803L	XM0803K	3	0.671	17.04	0.065	1.65
XM0804R	XM0804L	XM0804K	4	0.737	18.72	0.065	1.65

Series XM Flexible Control Cable

600/1000 V Braid Shield, PVC/Nylon, PVC



Series XM Flexible Control Cable is the ideal choice for medium-to-high-flex applications. Featuring a premium-grade PVC jacket, Series XM offers a durable, oil-resistant construction that prevents contamination from hazardous fluids and protects against abrasion. Plus, its optimum flexibility and performance allows it to support a variety of industrial applications.

UL TC-ER (600 V)
UL WTTC (1000 V)
UL MTW (600 V)
CSA AWM I/II A/B FT4
CE compliant

Operating Temperature

- -5°C to 90°C (flexing)
- -30°C to 90°C (stationary)

Conductor Color Coding

- Chart KW, RW, LW (pages 504-506)
- Black, blue, or red* numbered conductors with one green/yellow ground conductor

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Tinned copper braid shield, 85% coverage
- Black PVC jacket

Availability

Bulk, cut to length

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

18 AWG (0.83 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM1803RCY	XM1803LCY	XM1803KCY	3	0.336	8.53	0.050	1.27
XM1804RCY	XM1804LCY	XM1804KCY	4	0.361	9.17	0.050	1.27
XM1805RCY	XM1805LCY	XM1805KCY	5	0.388	9.86	0.050	1.27
XM1807RCY	XM1807LCY	XM1807KCY	7	0.446	11.33	0.050	1.27
XM1812RCY	XM1812LCY	XM1812KCY	12	0.549	13.94	0.050	1.27
XM1817RCY	XM1817LCY	XM1817KCY	17	0.631	16.03	0.065	1.65
XM1822RCY	XM1822LCY	XM1822KCY	22	0.697	17.70	0.065	1.65
XM1825RCY	XM1825LCY	XM1825KCY	25	0.758	19.25	0.065	1.65
XM1834RCY	XM1834LCY	XM1834KCY	34	0.856	21.74	0.065	1.65
XM1842RCY	XM1842LCY	XM1842KCY	42	0.915	23.24	0.085	2.16
XM1849RCY	XM1849LCY	XM1849KCY	49	1.006	25.55	0.085	2.16

16 AWG (1.31 mm²)

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM1603RCY	XM1603LCY	XM1603KCY	3	0.362	9.19	0.050	1.27
XM1604RCY	XM1604LCY	XM1604KCY	4	0.390	9.91	0.050	1.27
XM1605RCY	XM1605LCY	XM1605KCY	5	0.421	10.69	0.050	1.27
XM1607RCY	XM1607LCY	XM1607KCY	7	0.517	13.13	0.050	1.27
XM1612RCY	XM1612LCY	XM1612KCY	12	0.599	15.21	0.065	1.65
XM1617RCY	XM1617LCY	XM1617KCY	17	0.698	17.73	0.065	1.65
XM1619RCY	XM1619LCY	XM1619KCY	19	0.732	18.59	0.065	1.65
XM1622RCY	XM1622LCY	XM1622KCY	22	0.765	19.43	0.065	1.65
XM1625RCY	XM1625LCY	XM1625KCY	25	0.874	22.20	0.065	1.65
XM1633RCY	XM1633LCY	XM1633KCY	33	0.940	23.88	0.085	2.16
XM1642RCY	XM1642LCY	XM1642KCY	42	1.007	25.58	0.085	2.16
XM1649RCY	XM1649LCY	XM1649KCY	49	1.110	28.19	0.085	2.16

14 AWG (2.11 mm²)

Stranding: 105/34 (105 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM1403RCY	XM1403LCY	XM1403KCY	3	0.394	10.01	0.050	1.27
XM1404RCY	XM1404LCY	XM1404KCY	4	0.426	10.82	0.050	1.27
XM1405RCY	XM1405LCY	XM1405KCY	5	0.492	12.50	0.065	1.65
XM1407RCY	XM1407LCY	XM1407KCY	7	0.573	14.55	0.065	1.65
XM1412RCY	XM1412LCY	XM1412KCY	12	0.661	16.79	0.065	1.65

Series XM Flexible Control Cable

600/1000 V Braid Shielded, PVC/Nylon, PVC



Series XM Flexible Control Cable is the ideal choice for medium-to-high-flex applications. Featuring a premium-grade PVC jacket, Series XM offers a durable, oil-resistant construction that prevents contamination from hazardous fluids and protects against abrasion. Plus, its optimum flexibility and performance allows it to support a variety of industrial applications.

UL TC-ER (600 V)
UL WTTC (1000 V)
UL MTW (600 V)
CSA AWM I/II A/B FT4
CE compliant

Operating Temperature

- -5°C to 90°C (flexing)
- -30°C to 90°C (stationary)

Conductor Color Coding

- Chart KW, RW, LW (pages 504-506)
- Black, blue, or red* numbered conductors with one green/yellow ground conductor

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Tinned copper braid shield, 85% coverage
- Black PVC jacket

Availability

Bulk, cut to length

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

12 AWG (3.38 mm²)

Stranding: 168/34 (168 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM1203RCY	XM1203LCY	XM1203KCY	3	0.459	11.66	0.050	1.27
XM1204RCY	XM1204LCY	XM1204KCY	4	0.529	13.44	0.065	1.65
XM1205RCY	XM1205LCY	XM1205KCY	5	0.579	14.71	0.065	1.65
XM1207RCY	XM1207LCY	XM1207KCY	7	0.674	17.12	0.065	1.65

10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM1003RCY	XM1003LCY	XM1003KCY	3	0.551	14.00	0.050	1.27
XM1004RCY	XM1004LCY	XM1004KCY	4	0.599	15.21	0.065	1.65
XM1005RCY	XM1005LCY	XM1005KCY	5	0.652	16.56	0.065	1.65
XM1007RCY	XM1007LCY	XM1007KCY	7	0.770	19.56	0.065	1.65

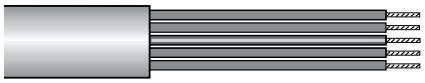
8 AWG (8.51 mm²)

Stranding: 168/30 (168 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm) PVC/0.006 (0.15 mm) nylon

Part No.			Conduc-tors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
XM0803RCY	XM0803LCY	XM0803KCY	3	0.712	18.08	0.065	1.65
XM0804RCY	XM0804LCY	XM0804KCY	4	0.778	19.76	0.065	1.65

Series F Continuous Flex Control Cable

High-Flex Cable Track Applications
600 V Unshielded, Multiconductor



UL TC-ER, PLTC
UL TFFN (18 – 16 AWG)
UL THHN (14 – 8 AWG)
CSA AWM I/II A/B FT4
CSA CIC
CE LVD 73/23/EEC Amend. 93/68/EEC

Operating Temperature

- -5°C to 90°C (flexing)
- -25°C to 90°C (stationary)

Conductor Color Coding

- Red, blue, or black insulation*, numbered 1 green/yellow green conductor 1 white-striped neutral (12 conductors or greater)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black oil-resistant thermoplastic elastomer jacket

Availability

Bulk, cut to length

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

18 AWG (0.83 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
F18003KW	F18003LW	F18003RW	3	0.308	7.82	0.050	1.27
F18004KW	F18004LW	F18004RW	4	0.333	8.46	0.050	1.27
F18005KW	F18005LW	F18005RW	5	0.360	9.14	0.050	1.27
F18007KW	F18007LW	F18007RW	7	0.418	10.62	0.050	1.27
F18012KW	F18012LW	F18012RW	12	0.515	13.08	0.065	1.65
F18017KW	F18017LW	F18017RW	17	0.597	15.16	0.065	1.65
F18022KW	F18022LW	F18022RW	22	0.656	16.66	0.065	1.65
F18025KW	F18025LW	F18025RW	25	0.717	18.21	0.065	1.65
F18034KW	F18034LW	F18034RW	34	0.775	19.69	0.065	1.65
F18042KW	F18042LW	F18042RW	42	0.874	22.20	0.085	2.16
F18049KW	F18049LW	F18049RW	49	0.965	24.51	0.085	2.16
F18065KW	F18065LW	F18065RW	65	1.052	26.72	0.085	2.16

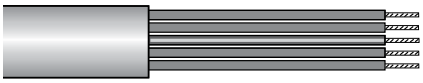
16 AWG (1.31 mm²)

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
F16003KW	F16003LW	F16003RW	3	0.334	8.48	0.050	1.27
F16004KW	F16004LW	F16004RW	4	0.362	9.19	0.050	1.27
F16005KW	F16005LW	F16005RW	5	0.393	9.98	0.050	1.27
F16007KW	F16007LW	F16007RW	7	0.489	12.42	0.065	1.65
F16012KW	F16012LW	F16012RW	12	0.565	14.35	0.065	1.65
F16017KW	F16017LW	F16017RW	17	0.657	16.69	0.065	1.65
F16019KW	F16019LW	F16019RW	19	0.691	17.55	0.065	1.65
F16022KW	F16022LW	F16022RW	22	0.724	18.39	0.065	1.65
F16025KW	F16025LW	F16025RW	25	0.793	20.14	0.065	1.65
F16033KW	F16033LW	F16033RW	33	0.899	22.83	0.085	2.16
F16042KW	F16042LW	F16042RW	42	0.966	24.54	0.085	2.16
F16049KW	F16049LW	F16049RW	49	1.069	27.15	0.085	2.16
F16065KW	F16065LW	F16065RW	65	1.168	29.67	0.085	2.16

Series F Continuous Flex Control Cable

High-Flex Cable Track Applications
600 V Unshielded, Multiconductor



UL TC-ER, PLTC
UL TFFN (18 – 16 AWG)
UL THHN (14 – 8 AWG)
CSA AWM I/II A/B FT4
CSA CIC
CE LVD 73/23/EEC Amend. 93/68/EEC

Operating Temperature

- -5°C to 90°C (flexing)
- -25°C to 90°C (stationary)

Conductor Color Coding

- Red, blue, or black insulation*, numbered 1 green/yellow green conductor 1 white-striped neutral (12 conductors or greater)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black oil-resistant thermoplastic elastomer jacket

Availability

Bulk, cut to length

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

14 AWG (2.11 mm²)

Stranding: 105/34 (105 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
F14003KW	F14003LW	F14003RW	3	0.366	9.30	0.050	1.27
F14004KW	F14004LW	F14004RW	4	0.398	10.11	0.050	1.27
F14005KW	F14005LW	F14005RW	5	0.434	11.02	0.050	1.27
F14007KW	F14007LW	F14007RW	7	0.539	13.69	0.065	1.65
F14012KW	F14012LW	F14012RW	12	0.628	15.95	0.065	1.65

12 AWG (3.38 mm²)

Stranding: 168/34 (168 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
F12004KW	F12004LW	F12004RW	4	0.501	12.73	0.065	1.65
F12005KW	F12005LW	F12005RW	5	0.545	13.84	0.065	1.65
F12007KW	F12007LW	F12007RW	7	0.640	16.26	0.065	1.65

10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
F10004KW	F10004LW	F10004RW	4	0.565	14.35	0.065	1.65
F10005KW	F10005LW	F10005RW	5	0.618	15.70	0.065	1.65
F10007KW	F10007LW	F10007RW	7	0.729	18.52	0.065	1.65

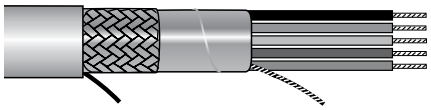
8 AWG (8.51 mm²)

Stranding: 168/30 (168 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm) PVC/0.006 (0.15 mm) nylon

Part No.			Conductors	Nominal Diameter		Jacket Thickness	
Black Insul.	Blue Insul.	Red Insul.		Inch	mm	Inch	mm
F08004KW	F08004LW	F08004RW	4	0.740	18.80	0.065	1.65

Series SF Flexible Servo Cable

600/1000 V, Foil + braid Shield, Multiconductor



UL TC-ER (600 V)
UL WTTC (1000 V)
CSA AWM I/II A/B FT4

Operating Temperature

- -5°C to 90°C (flexing)
- -25°C to 90°C (stationary)

Conductor Color Coding

- Chart KX (page 505) for multiconductor
- Chart A (page 499) for pairs

Materials

- Stranded tinned copper conductors
- PVC/nylon insulation
- Foil + braid shielding
  Aluminum/polyester foil
  Tinned copper braid,
  85% coverage
- Orange thermoplastic elastomer jacket

Availability

Bulk, cut to length

Flexible Power Servo Cable

4 conductors for power/ground

Part No.	Conductors	Wire Size		Stranding		Nominal Diameter		Jacket Thickness	
		AWG	mm²	AWG	mm	Inch	mm	Inch	mm
SF61118CY	4	18	0.96	19/30	19 x 0.25	0.382	9.70	0.055	1.40
SF61116CY	4	16	1.32	26/30	26 x 0.25	0.406	10.31	0.055	1.40
SF61114CY	4	14	2.09	41/30	41 x 0.25	0.440	11.18	0.055	1.40
SF61112CY	4	12	3.31	65/30	65 x 0.25	0.506	12.85	0.065	1.65
SF61110CY	4	10	5.32	105/30	105 x 0.25	0.603	15.32	0.065	1.65
SF61108CY	4	8	8.50	168/30	168 x 0.25	0.785	19.94	0.065	1.65

Flexible Composite Servo Cable

4 conductors for power/ground +2 individually shielded pairs for brake or temperature control

Part No.	Conductors	Wire Size		Stranding		Nominal Diameter		Jacket Thickness	
		AWG	mm²	AWG	mm	Inch	mm	Inch	mm
SF61220CY	4 +2 pairs	16 pwr 18 pr	1.32 0.96	26/30 19/30	26 x 0.25 19 x 0.25	0.590	14.99	0.065	1.65
SF61221CY	4 +2 pairs	14 pwr 18 pr	2.09 0.96	41/30 19/30	41 x 0.25 19 x 0.25	0.618	15.70	0.065	1.65
SF61222CY	4 +2 pairs	12 pwr 16 pr	3.31 1.32	65/30 26/30	65 x 0.25 26 x 0.25	0.674	17.12	0.065	1.65
SF61223CY	4 +2 pairs	10 pwr 16 pr	5.37 1.32	105/30 26/30	105 x 0.25 26 x 0.25	0.757	19.23	0.065	1.65
SF61224CY	4 +2 pairs	8 pwr 16 pr	8.50 1.32	168/30 26/30	168 x 0.25 26 x 0.25	0.943	23.95	0.085	2.16

Alpha Essentials Cable



Material Handling

Industrial Automation

Semi-conductor Equipment

Aerospace and Defence

Energy and Solar

Construction Equipment

Alpha Essentials

The Reliable Source for Industry-Standard Cables

Finding the right wire and cable for your application is now easier than ever with Alpha Essentials—your one-stop source for the widest range of industry-standard cables. The breadth and depth of Alpha Essentials products ensure an optimum solution to your application challenges.

High Performance, Low Minimums

Alpha Essentials provides you with high-performance, industry-standard cables. They are built to perform reliably—electrically, mechanically, and environmentally—each and every time. Better still, you can order just what you need with Alpha's industry-leading minimum order quantities; most products in the Alpha Essentials line have only a 100-ft minimum order requirement.

Essential to Performance,Reliability, and Productivity

Every wire and cable in your application, no matter how simple or complex, is critical to long-term reliable productivity, performance, and overall customer satisfaction. Alpha Essentials cable is industry-proven to provide dependable performance day in and day out.

Standard Cables that Go Beyond the Ordinary

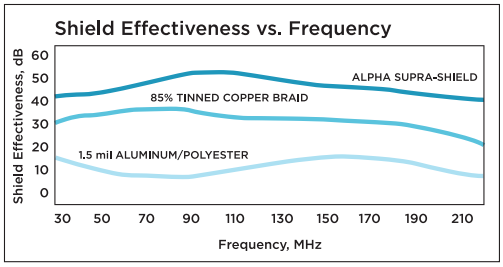
Nobody gives you more choice in insulation and jacketing materials, shielding options, configurations, and conductor counts. And now, with the extensive Alpha Essentials line, you have more choice in the types of cable you tend to need most. These cables go beyond the ordinary to satisfy the rigorous requirements of EMI performance, transmission distances, flexibility, and extreme temperatures.

Pro-Tekt Cable	High-Performance cable for a variety of environmental applications
Communication and Control Cable	Communication and control applications
Low Smoke and Zero Halogen Cable	LSZH insulation and jacket provides excellent safety
High-/Low-Temperature Cable	Extreme temperature performance for harsh environmental applications
Tray Cable	Withstand the worst environments to meet your communication and control requirements
Plenum Cable	A variety of flame-retardant insulation and sheath, no additional protective sleeve required
Flex Ethernet Cable	Designed for flexible Ethernet applications, up to 10M flexible lifecycles
Coaxial Cable	50-, 75-, 93-, 100-Ohm coaxial, twinaxial and triaxial cables
Data and Bus Cable	Leading mechanical and electrical performance, supports major industrial automation protocols
Cords and Cordsets	Provide reliable external power supply for industrial, commercial, medical and consumer equipment
Pro-Met 470 Flexible Control Cable	Ideal options for industrial environments
Pro-Met 480 Continuous Flex Control Cable	High-flex, oil-resistant drag chain cable, up to 10M flexible lifecycles
Pro-Met 410 Standard Flex Control Cable	Ideal for industrial automation applications, up to 5M flexible lifecycles
Pro-Met 440 & 441 Control and Signal Cable	Data transmission cable suitable for fixed installation or transient dynamic applications

Pro-Tekt™ High Performance Cable

Pro-Tekt Shielding Options

Alpha Wire offers Pro-Tekt® Cables in four shielding options to handle virtually any electrical environment.



1. Unshielded

Unshielded cables provide the smallest cable diameter for use in low-noise controlled environments.

2. Foil Shielded

Foil-shielded cables use a sturdy aluminum/polyester shield for moderate EMI needs, especially at lower frequencies. A tinned copper drain wire makes grounding the cable easy. Foil shields allow lighter weights and smaller cables.

3. Braided Shield

Braided shielding is a type of shielded cable that uses a tightly woven lattice of thin tin or copper wires to encapsulate a shielded cable assembly. The formation looks like a braid and provides a low-resistance path to ground.

4. Supra-Shield® (Premium Foil + Braid)

Alpha's exclusive Supra-Shield Cables combine a triple-layer aluminum/polyester/aluminum foil with a tinned copper braid shield with tight 70% coverage. Supra-Shield offers exceptional EMI performance and flexibility to protect against noise and maintain overall system integrity. The combination of foil and braid offers better shielding effectiveness than either approach alone against both low- and high-frequency noise.

Features

- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- Premium-grade PVC insulation and jacket for easier cable routing in small spaces
- 300 V
- Unshielded, foil shielded, or Supra-Shield® Foil + Braid
- 105°C temperature rating
- UL VW-1, UL 10002, UL 2464, CSA CMG and CSA FT-4 flammability rating
- IEC 60322-1 and -2 flame behavior
- Oil and UV resistant

Applications

- High-technology applications in controlled environments
- Medical electronics
- Point-of-sale equipment
- Computer peripherals
- Industrial process controls

FIT® Tubing Recommandations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

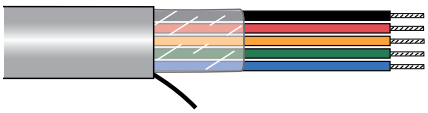
Applications

Pro-Tekt™	High Temp	Low Temp	UV	Oil/Water/ Chemical	Abrasion	Direct Burial	EMI Protection Supra-Shield	High Flex
	●○○	●○○	●●○	●○○	●○○	NR	●●●	NR

●○○ = Good, ●●○ = Very good, ●●● = Excellent, NR = Not Recommended

Pro-Tekt™

High Performance
300 V Unshielded, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B951021	2	0.137	3.48	0.032	0.81
B951031	3	0.143	3.63	0.032	0.81
B951041	4	0.152	3.86	0.032	0.81
B951061	6	0.173	4.39	0.032	0.81
B951071	7	0.173	4.39	0.032	0.81
B951081	8	0.184	4.67	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B952021	2	0.145	3.68	0.032	0.81
B952031	3	0.151	3.84	0.032	0.81
B952041	4	0.161	4.09	0.032	0.81
B952061	6	0.185	4.70	0.032	0.81
B952071	7	0.185	4.70	0.032	0.81
B952081	8	0.197	5.00	0.032	0.81
B952101	10	0.223	5.66	0.032	0.81
B952151	15	0.247	6.27	0.032	0.81

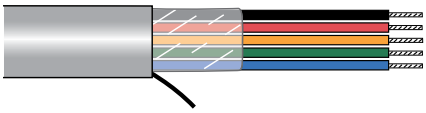
24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B953021	2	0.155	3.94	0.032	0.81
B953031	3	0.162	4.11	0.032	0.81
B953041	4	0.174	4.42	0.032	0.81
B953061	6	0.20	5.08	0.032	0.81
B953081	8	0.214	5.44	0.032	0.81
B953101	10	0.243	6.17	0.032	0.81
B953151	15	0.270	6.86	0.032	0.81
B953201	20	0.299	7.59	0.032	0.81
B953251	25	0.331	8.41	0.032	0.81
B953301	30	0.349	8.86	0.032	0.81
B953401	40	0.389	9.88	0.032	0.81
B953501	50	0.428	10.87	0.032	0.81
B953801	80	0.525	13.34	0.032	0.81

Pro-Tekt™

High Performance
300 V Unshielded, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 22 AWG: Chart E (page 503)
- 20 AWG: Chart D (page 502)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B954021	2	0.167	4.24	0.032	0.81
B954031	3	0.175	4.44	0.032	0.81
B954041	4	0.188	4.78	0.032	0.81
B954061	6	0.218	5.54	0.032	0.81
B954081	8	0.234	5.94	0.032	0.81
B954101	10	0.267	6.78	0.032	0.81
B954151	15	0.298	7.57	0.032	0.81
B954201	20	0.330	8.38	0.032	0.81
B954251	25	0.367	9.32	0.032	0.81
B954301	30	0.388	9.86	0.032	0.81
B954401	40	0.433	11.00	0.032	0.81
B954501	50	0.477	12.12	0.032	0.81
B954601	60	0.517	13.13	0.032	0.81

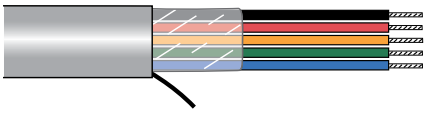
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B955021	2	0.207	5.26	0.032	0.81
B955031	3	0.218	5.54	0.032	0.81
B955041	4	0.237	6.02	0.032	0.81
B955061	6	0.279	7.09	0.032	0.81
B955081	8	0.301	7.65	0.032	0.81
B955101	10	0.347	8.81	0.032	0.81
B955151	15	0.390	9.91	0.032	0.81
B955201	20	0.436	11.07	0.032	0.81
B955251	25	0.487	12.37	0.032	0.81
B955301	30	0.516	13.11	0.032	0.81
B955401	40	0.621	15.77	0.053	1.35
B955501	50	0.683	17.35	0.053	1.35

Pro-Tekt™

High Performance
300 V Unshielded, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B956021	2	0.225	5.72	0.032	0.81
B956021N*	2	0.225	5.72	0.032	0.81
B956031	3	0.237	6.02	0.032	0.81
B956031N	3	0.237	6.02	0.032	0.81
B956041	4	0.258	6.55	0.032	0.81
B956061	6	0.306	7.77	0.032	0.81
B956081	8	0.331	8.41	0.032	0.81
B956101	10	0.383	9.73	0.032	0.81
B956151	15	0.432	10.97	0.032	0.81
B956201	20	0.483	12.27	0.032	0.81
B956251	25	0.541	13.74	0.032	0.81
B956301	30	0.616	15.65	0.053	1.35
B956401	40	0.687	17.45	0.053	1.35
B956501	50	0.757	19.23	0.053	1.35
B956601	60	0.880	22.35	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

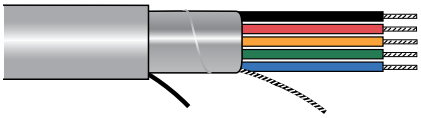
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B957021	2	0.249	6.32	0.032	0.81
B957021N	2	0.249	6.32	0.032	0.81
B957031	3	0.263	6.68	0.032	0.81
B957031N	3	0.263	6.68	0.032	0.81
B957041	4	0.287	7.29	0.032	0.81
B957061	6	0.342	8.69	0.032	0.81
B957081	8	0.371	9.42	0.032	0.81
B957101	10	0.431	10.95	0.032	0.81
B957151	15	0.487	12.37	0.032	0.81
B957201	20	0.546	13.87	0.053	0.81
B957251	25	0.655	16.64	0.053	0.81
B957301	30	0.693	17.60	0.053	0.81
B957401	40	0.774	19.66	0.083	2.11
B957501	50	0.916	23.27	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

Pro-Tekt™

High Performance
300 V Foil Shielded, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B951022	2	0.141	3.58	0.032	0.81
B951032	3	0.147	3.73	0.032	0.81
B951042	4	0.156	3.96	0.032	0.81
B951062	6	0.177	4.50	0.032	0.81
B951072	7	0.177	4.50	0.032	0.81
B951082	8	0.188	4.78	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B952022	2	0.149	3.78	0.032	0.81
B952032	3	0.155	3.94	0.032	0.81
B952042	4	0.165	4.19	0.032	0.81
B952062	6	0.189	4.80	0.032	0.81
B952072	7	0.189	4.80	0.032	0.81
B952082	8	0.201	5.11	0.032	0.81
B952102	10	0.227	5.77	0.032	0.81
B952152	15	0.251	6.38	0.032	0.81

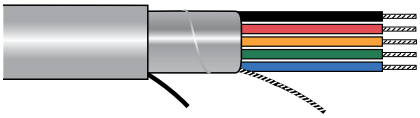
24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B953022	2	0.159	4.04	0.032	0.81
B953032	3	0.166	4.22	0.032	0.81
B953042	4	0.178	4.52	0.032	0.81
B953062	6	0.204	5.18	0.032	0.81
B953082	8	0.218	5.54	0.032	0.81
B953102	10	0.247	6.27	0.032	0.81
B953152	15	0.274	6.96	0.032	0.81
B953202	20	0.303	7.70	0.032	0.81
B953252	25	0.335	8.51	0.032	0.81
B953302	30	0.353	8.97	0.032	0.81
B953402	40	0.393	9.98	0.032	0.81
B953502	50	0.432	10.97	0.032	0.81
B953602	60	0.467	11.86	0.032	0.81
B953702	70	0.504	12.80	0.032	0.81

Pro-Tekt™

High Performance
300 V Foil Shielded, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 22 AWG: Chart E (page 503)
- 20 AWG: Chart D (page 502)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B954022	2	0.171	4.34	0.032	0.81
B954032	3	0.179	4.55	0.032	0.81
B954042	4	0.192	4.88	0.032	0.81
B954062	6	0.222	5.64	0.032	0.81
B954082	8	0.238	6.05	0.032	0.81
B954102	10	0.271	6.88	0.032	0.81
B954152	15	0.302	7.67	0.032	0.81
B954202	20	0.334	8.48	0.032	0.81
B954252	25	0.371	9.42	0.032	0.81
B954302	30	0.392	9.96	0.032	0.81
B954402	40	0.437	11.10	0.032	0.81
B954502	50	0.481	12.22	0.032	0.81
B954602	60	0.521	13.23	0.032	0.81
B954702	70	0.605	15.37	0.053	1.35

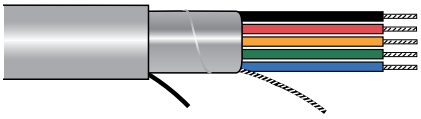
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B955022	2	0.211	5.36	0.032	0.81
B955032	3	0.222	5.64	0.032	0.81
B955042	4	0.241	6.12	0.032	0.81
B955062	6	0.283	7.19	0.032	0.81
B955082	8	0.305	7.75	0.032	0.81
B955102	10	0.351	8.92	0.032	0.81
B955152	15	0.394	10.01	0.032	0.81
B955202	20	0.440	11.18	0.032	0.81
B955252	25	0.491	12.47	0.032	0.81
B955302	30	0.520	13.21	0.032	0.81
B955402	40	0.625	15.88	0.053	1.35
B955502	50	0.687	17.45	0.053	1.35

Pro-Tekt™

High Performance
300 V Foil Shielded, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B956022	2	0.229	5.82	0.032	0.81
B956022N*	2	0.229	5.82	0.032	0.81
B956032	3	0.241	6.12	0.032	0.81
B956032N*	3	0.241	6.12	0.032	0.81
B956042	4	0.262	6.65	0.032	0.81
B956062	6	0.310	7.87	0.032	0.81
B956082	8	0.335	8.51	0.032	0.81
B956102	10	0.387	9.83	0.032	0.81
B956152	15	0.436	11.07	0.032	0.81
B956202	20	0.487	12.37	0.032	0.81
B956252	25	0.587	14.91	0.053	1.35
B956302	30	0.620	15.75	0.053	1.35
B956402	40	0.691	17.55	0.053	1.35
B956502	50	0.761	19.33	0.053	1.35
B956602	60	0.884	22.45	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

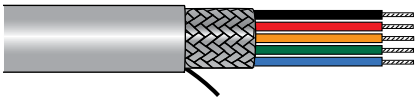
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B957022	2	0.253	6.43	0.032	0.81
B957022N*	2	0.253	6.43	0.032	0.81
B957032	3	0.267	6.78	0.032	0.81
B957032N*	3	0.267	6.78	0.032	0.81
B957042	4	0.291	7.39	0.032	0.81
B957062	6	0.346	8.79	0.032	0.81
B957082	8	0.375	9.52	0.032	0.81
B957102	10	0.435	11.05	0.032	0.81
B957152	15	0.491	12.47	0.032	0.81
B957202	20	0.592	15.04	0.053	1.35
B957252	25	0.659	16.74	0.053	1.35
B957302	30	0.697	17.70	0.053	1.35
B957402	40	0.778	19.76	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

Pro-Tekt™

High Performance
300 V Braid Shield, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.12 mm)
Insulation Thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B951023	2	0.159	4.04	0.032	0.81
B951033	3	0.165	4.19	0.032	0.81
B951043	4	0.174	4.42	0.032	0.81
B951063	6	0.195	4.95	0.032	0.81
B951073	7	0.195	4.95	0.032	0.81
B951083	8	0.206	5.23	0.032	0.81

26 AWG (0.32 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B952023	2	0.167	4.24	0.032	0.81
B952033	3	0.173	4.39	0.032	0.81
B952043	4	0.183	4.65	0.032	0.81
B952063	6	0.207	5.26	0.032	0.81
B952073	7	0.207	5.26	0.032	0.81
B952083	8	0.219	5.56	0.032	0.81
B952103	10	0.245	6.22	0.032	0.81
B952153	15	0.269	6.83	0.032	0.81

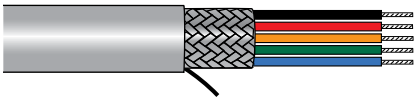
24 AWG (0.35 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B953023	2	0.177	4.50	0.032	0.81
B953033	3	0.184	4.67	0.032	0.81
B953043	4	0.196	4.98	0.032	0.81
B953063	6	0.222	5.64	0.032	0.81
B953083	8	0.236	5.99	0.032	0.81
B953103	10	0.265	6.73	0.032	0.81
B953153	15	0.292	7.42	0.032	0.81
B953203	20	0.321	8.15	0.032	0.81
B953253	25	0.353	8.97	0.032	0.81
B953303	30	0.371	9.42	0.032	0.81
B953403	40	0.411	10.44	0.032	0.81
B953503	50	0.450	11.43	0.032	0.81
B953603	60	0.491	12.47	0.032	0.81
B953703	70	0.528	13.41	0.032	0.81

Pro-Tekt™

High Performance
300 V Braid Shield, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 22 AWG: Chart E (page 503)
- 20 AWG: Chart D (page 502)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

22 AWG (0.35 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B954023	2	0.189	4.80	0.032	0.81
B954033	3	0.197	5.00	0.032	0.81
B954043	4	0.210	5.33	0.032	0.81
B954063	6	0.240	6.10	0.032	0.81
B954083	8	0.256	6.50	0.032	0.81
B954103	10	0.289	7.34	0.032	0.81
B954153	15	0.320	8.13	0.032	0.81
B954203	20	0.352	8.94	0.032	0.81
B954253	25	0.389	9.88	0.032	0.81
B954303	30	0.410	10.41	0.032	0.81
B954403	40	0.455	11.56	0.032	0.81
B954503	50	0.505	12.83	0.032	0.81
B954603	60	0.587	14.91	0.032	0.81
B954703	70	0.629	15.98	0.032	0.81

20 AWG (0.56 mm²)

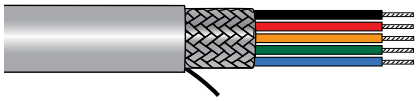
Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B955023	2	0.229	5.82	0.032	0.81
B955033	3	0.240	6.10	0.032	0.81
B955043	4	0.259	6.58	0.032	0.81
B955063	6	0.301	7.65	0.032	0.81
B955083	8	0.323	8.20	0.032	0.81
B955103	10	0.369	9.37	0.032	0.81
B955153	15	0.412	10.46	0.032	0.81
B955203	20	0.458	11.63	0.032	0.81
B955253	25	0.515	13.08	0.032	0.81
B955303	30	0.544	13.82	0.032	0.81
B955403	40	0.649	16.48	0.053	1.35
B955503	50	0.718	18.24	0.053	1.35

RoHS Compliant CA PROP 65

Pro-Tekt™

High Performance
300 V Braid Shield, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B956023	2	0.247	6.27	0.032	0.81
B956023N*	2	0.247	6.27	0.032	0.81
B956033	3	0.259	6.58	0.032	0.81
B956033N*	3	0.259	6.58	0.032	0.81
B956043	4	0.28	7.11	0.032	0.81
B956063	6	0.328	8.33	0.032	0.81
B956083	8	0.353	8.97	0.032	0.81
B956103	10	0.405	10.29	0.032	0.81
B956153	15	0.454	11.53	0.032	0.81
B956203	20	0.511	12.98	0.032	0.81
B956253	25	0.611	15.52	0.032	0.81
B956303	30	0.644	16.36	0.053	1.35
B956403	40	0.722	18.34	0.053	1.35
B956503	60	0.792	20.12	0.053	1.35

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

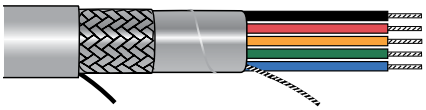
Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B957023	2	0.271	6.88	0.032	0.81
B957023N*	2	0.271	6.88	0.032	0.81
B957033	3	0.285	7.24	0.032	0.81
B957033N*	3	0.285	7.24	0.032	0.81
B957043	4	0.309	7.85	0.032	0.81
B957063	6	0.364	9.25	0.032	0.81
B957083	8	0.393	9.98	0.032	0.81
B957103	10	0.453	11.51	0.032	0.81
B957153	15	0.515	13.08	0.032	0.81
B957203	20	0.616	15.65	0.053	1.35
B957253	25	0.690	17.53	0.053	1.35
B957303	30	0.728	18.49	0.053	1.35
B957403	40	0.809	20.55	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

Pro-Tekt™

High Performance
300 V Foil + Braid, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B951024	2	0.165	4.19	0.032	0.81
B951034	3	0.171	4.34	0.032	0.81
B951044	4	0.180	4.57	0.032	0.81
B951064	6	0.201	5.11	0.032	0.81
B951074	7	0.201	5.11	0.032	0.81
B951084	8	0.212	5.38	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B952024	2	0.173	4.39	0.032	0.81
B952034	3	0.179	4.55	0.032	0.81
B952044	4	0.189	4.80	0.032	0.81
B952064	6	0.213	5.41	0.032	0.81
B952074	7	0.213	5.41	0.032	0.81
B952084	8	0.225	5.72	0.032	0.81
B952104	10	0.251	6.38	0.032	0.81
B952154	15	0.275	6.98	0.032	0.81

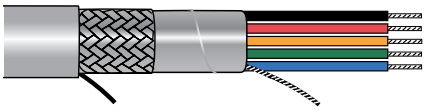
24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B953024	2	0.183	4.65	0.032	0.81
B953034	3	0.190	4.83	0.032	0.81
B953044	4	0.202	5.13	0.032	0.81
B953064	6	0.228	5.79	0.032	0.81
B953084	8	0.242	6.15	0.032	0.81
B953104	10	0.271	6.88	0.032	0.81
B953154	15	0.298	7.57	0.032	0.81
B953204	20	0.327	8.31	0.032	0.81
B953254	25	0.359	9.12	0.032	0.81
B953304	30	0.377	9.58	0.032	0.81
B953404	40	0.417	10.59	0.032	0.81
B953504	50	0.456	11.58	0.032	0.81

Pro-Tekt™

High Performance
300 V Foil + Braid, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 22 AWG: Chart E (page 503)
- 20 AWG: Chart D (page 502)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B954024	2	0.195	4.95	0.032	0.81
B954034	3	0.203	5.16	0.032	0.81
B954044	4	0.216	5.49	0.032	0.81
B954064	6	0.246	6.25	0.032	0.81
B954084	8	0.262	6.65	0.032	0.81
B954104	10	0.295	7.49	0.032	0.81
B954154	15	0.326	8.28	0.032	0.81
B954204	20	0.358	9.09	0.032	0.81
B954254	25	0.395	10.03	0.032	0.81
B954304	30	0.416	10.57	0.032	0.81
B954404	40	0.461	11.71	0.032	0.81
B954504	50	0.511	12.98	0.032	0.81
B954604	60	0.587	14.91	0.053	1.35
B954704	70	0.629	15.98	0.053	1.35
B954804	80	0.664	16.87	0.053	1.35

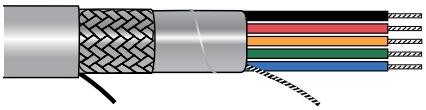
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B955024	2	0.235	5.97	0.032	0.81
B955034	3	0.246	6.25	0.032	0.81
B955044	4	0.265	6.73	0.032	0.81
B955064	6	0.307	7.80	0.032	0.81
B955084	8	0.329	8.36	0.032	0.81
B955104	10	0.375	9.52	0.032	0.81
B955154	15	0.418	10.62	0.032	0.81
B955204	20	0.464	11.79	0.032	0.81
B955254	25	0.515	13.08	0.032	0.81
B955304	30	0.544	13.82	0.032	0.81
B955404	40	0.655	16.64	0.053	1.35
B955504	50	0.717	18.21	0.053	1.35
B955604	60	0.773	19.63	0.053	1.35

Pro-Tekt™

High Performance
300 V Foil + Braid, Multiconductor



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B956024	2	0.253	6.43	0.032	0.81
B956024N*	2	0.253	6.43	0.032	0.81
B956034	3	0.265	6.73	0.032	0.81
B956034N*	3	0.265	6.73	0.032	0.81
B956044	4	0.286	7.26	0.032	0.81
B956064	6	0.334	8.48	0.032	0.81
B956084	8	0.359	9.12	0.032	0.81
B956104	10	0.411	10.44	0.032	0.81
B956154	15	0.460	11.68	0.032	0.81
B956204	20	0.511	12.98	0.032	0.81
B956254	25	0.611	15.52	0.053	1.35
B956304	30	0.650	16.51	0.053	1.35
B956404	40	0.721	18.31	0.053	1.35
B956603	60	0.921	23.39	0.053	1.35

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

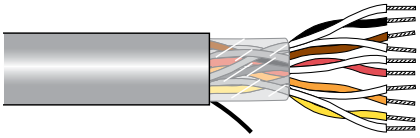
Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B957024	2	0.277	7.04	0.032	0.81
B957024N*	2	0.277	7.04	0.032	0.81
B957034	3	0.291	7.39	0.032	0.81
B957034N*	3	0.291	7.39	0.032	0.81
B957044	4	0.315	8.00	0.032	0.81
B957064	6	0.370	9.40	0.032	0.81
B957084	8	0.399	10.13	0.032	0.81
B957104	10	0.459	11.66	0.032	0.81
B957154	15	0.515	13.08	0.032	0.81
B957204	20	0.616	15.65	0.053	1.35
B957254	25	0.689	17.50	0.053	1.35

*Conductors color-coded per international standards: brown, blue, green/yellow.

Pro-Tekt™

High Performance
300 V Unshielded, Multipair



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart B (page 499)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B963011	1	0.155	3.94	0.032	0.81
B963021	2	0.211	5.36	0.032	0.81
B963031	3	0.223	5.66	0.032	0.81
B963041	4	0.242	6.15	0.032	0.81
B963051	5	0.263	6.68	0.032	0.81
B963061	6	0.285	7.24	0.032	0.81
B963091	9	0.331	8.41	0.032	0.81
B963111	11	0.356	9.04	0.032	0.81
B963151	15	0.400	10.16	0.032	0.81
B963271	27	0.511	12.98	0.032	0.81
B963771	77	0.903	22.94	0.083	0.81

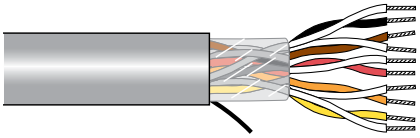
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B964011	1	0.167	4.24	0.032	0.81
B964021	2	0.231	5.87	0.032	0.81
B964031	3	0.244	6.20	0.032	0.81
B964041	4	0.266	6.76	0.032	0.81
B964051	5	0.290	7.37	0.032	0.81
B964061	6	0.315	8.00	0.032	0.81
B964151	15	0.446	11.33	0.032	0.81

Pro-Tekt™

High Performance
300 V Unshielded, Multipair



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart A (page 499)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation Thickness: 0.016 (0.41 mm)

Part Number	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B965021	2	0.297	7.54	0.032	0.81
B965031	3	0.315	8.00	0.032	0.81
B965061	6	0.414	10.52	0.032	0.81
B965091	9	0.486	12.34	0.032	0.81
B965121	12	0.544	13.82	0.032	0.81

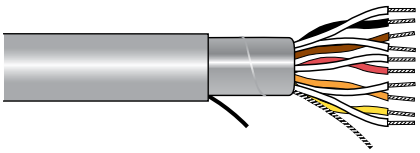
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation Thickness: 0.016 (0.41 mm)

Part Number	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B966021	2	0.326	8.28	0.032	0.81
B966031	3	0.347	8.81	0.032	0.81
B966061	6	0.459	11.66	0.032	0.81
B966091	9	0.54	13.72	0.053	1.35
B966121	12	0.647	16.43	0.053	1.35

Pro-Tekt™

High Performance
300 V Foil Shield, Multipair



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart B (page 499)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.12 mm)
Insulation Thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B961022	2	0.186	4.72	0.032	0.81
B961032	3	0.195	4.95	0.032	0.81
B961042	4	0.210	5.33	0.032	0.81
B961052	5	0.227	5.77	0.032	0.81
B961062	6	0.245	6.22	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B962022	2	0.199	5.05	0.032	0.81
B962032	3	0.209	5.31	0.032	0.81
B962042	4	0.226	5.74	0.032	0.81
B962052	5	0.245	6.22	0.032	0.81
B962062	6	0.264	6.71	0.032	0.81

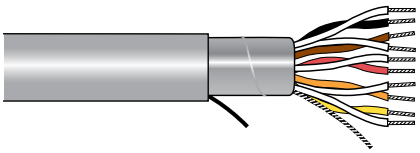
24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B963012	1	0.159	4.04	0.032	0.81
B963022	2	0.215	5.46	0.032	0.81
B963032	3	0.227	5.77	0.032	0.81
B963042	4	0.246	6.25	0.032	0.81
B963052	5	0.267	6.78	0.032	0.81
B963062	6	0.289	7.34	0.032	0.81
B963092	9	0.335	8.51	0.032	0.81
B963112	11	0.360	9.14	0.032	0.81
B963152	15	0.404	10.26	0.032	0.81
B963192	19	0.432	10.97	0.032	0.81
B963272	27	0.515	13.08	0.32	0.81

Pro-Tekt™

High Performance
300 V Foil Shield, Multipair



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B964012	1	0.171	4.34	0.032	0.81
B964022	2	0.235	5.97	0.032	0.81
B964032	3	0.248	6.30	0.032	0.81
B964042	4	0.270	6.86	0.032	0.81
B964052	5	0.294	7.47	0.032	0.81
B964062	6	0.319	8.10	0.032	0.81
B964092	9	0.371	9.42	0.032	0.81
B964112	11	0.399	10.13	0.032	0.81
B964152	15	0.450	11.43	0.032	0.81
B964192	19	0.482	12.24	0.032	0.81
B964272	27	0.618	15.70	0.053	1.35

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B965022	2	0.301	7.65	0.032	0.81
B965032	3	0.319	8.10	0.032	0.81
B965062	6	0.418	10.62	0.032	0.81
B965092	9	0.490	12.45	0.032	0.81
B965122	12	0.548	13.92	0.032	0.81
B965192	19	0.688	17.48	0.053	1.35

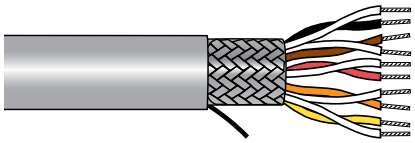
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B966032	3	0.351	8.92	0.032	0.81
B966062	6	0.463	11.76	0.032	0.81

Pro-Tekt™

High Performance
300 V Braid Shield, Multipair



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart B (page 499)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.12 mm)
Insulation Thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B961023	2	0.204	5.18	0.032	0.81
B961033	3	0.213	5.41	0.032	0.81
B961043	4	0.228	5.79	0.032	0.81
B961053	5	0.245	6.22	0.032	0.81
B961063	6	0.263	6.68	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B962023	2	0.217	5.51	0.032	0.81
B962033	3	0.227	5.77	0.032	0.81
B962043	4	0.244	6.20	0.032	0.81
B962053	5	0.263	6.68	0.032	0.81
B962063	6	0.282	7.16	0.032	0.81

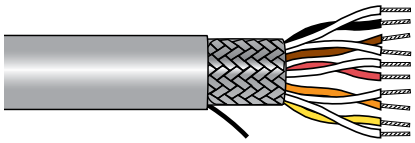
24 AWG (0.32 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B963013	1	0.177	4.50	0.032	0.81
B963023	2	0.233	5.92	0.032	0.81
B963033	3	0.245	6.22	0.032	0.81
B963043	4	0.264	6.71	0.032	0.81
B963053	5	0.285	7.24	0.032	0.81
B963063	6	0.307	7.80	0.032	0.81
B963093	9	0.353	8.97	0.032	0.81
B963113	11	0.378	9.60	0.032	0.81
B963153	15	0.422	10.72	0.032	0.81
B963193	19	0.450	11.43	0.032	0.81
B963273	27	0.539	13.69	0.032	0.81

Pro-Tekt™

High Performance
300 V Braid Shield, Multipair



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

22 AWG (0.35 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B964013	1	0.189	4.80	0.032	0.81
B964023	2	0.253	6.43	0.032	0.81
B964033	3	0.266	6.76	0.032	0.81
B964043	4	0.288	7.32	0.032	0.81
B964053	5	0.312	7.92	0.032	0.81
B964063	6	0.337	8.56	0.032	0.81
B964093	9	0.389	9.88	0.032	0.81
B964113	11	0.417	10.59	0.032	0.81
B964153	15	0.474	12.04	0.032	0.81
B964193	19	0.506	12.85	0.032	0.81
B964273	27	0.642	16.31	0.053	1.35

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B965023	2	0.319	8.10	0.032	0.81
B965033	3	0.337	8.56	0.032	0.81
B965063	6	0.436	11.07	0.032	0.81
B965093	9	0.514	13.06	0.032	0.81
B965123	12	0.572	14.53	0.032	0.81
B965193	19	0.719	18.26	0.053	1.35

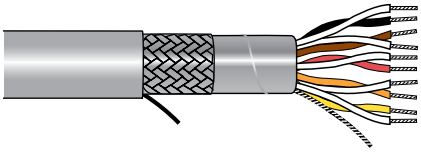
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B966033	3	0.369	9.37	0.032	0.81
B966063	6	0.487	12.37	0.032	0.81

Pro-Tekt™

High Performance
300 V Foil + Braid, Multipair



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- Chart B (page 499)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.12 mm)
Insulation Thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B961024	2	0.210	5.33	0.032	0.81
B961034	3	0.219	5.56	0.032	0.81
B961044	4	0.234	5.94	0.032	0.81
B961054	5	0.251	6.38	0.032	0.81
B961064	6	0.269	6.83	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B962024	2	0.210	5.33	0.032	0.81
B962034	3	0.219	5.56	0.032	0.81
B962044	4	0.234	5.94	0.032	0.81
B962054	5	0.251	6.38	0.032	0.81
B962064	6	0.269	6.83	0.032	0.81

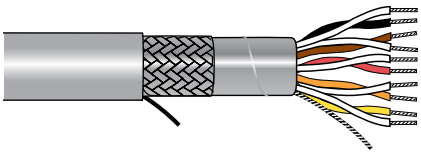
24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B963014	1	0.183	4.65	0.032	0.81
B963024	2	0.239	6.07	0.032	0.81
B963034	3	0.251	6.38	0.032	0.81
B963044	4	0.270	6.86	0.032	0.81
B963054	5	0.291	7.39	0.032	0.81
B963064	6	0.313	7.95	0.032	0.81
B963094	9	0.359	9.12	0.032	0.81
B963114	11	0.384	9.75	0.032	0.81
B963154	15	0.428	10.87	0.032	0.81
B963194	19	0.456	11.58	0.032	0.81
B963274	27	0.539	13.69	0.032	0.81
B963514	51	0.738	18.75	0.053	1.35

Pro-Tekt™

High Performance
300 V Foil/Braid, Multipair



IEC EN 60332-1
IEC EN 60332-2
UL CM
UL AWM 2464 VW-1

Operating Temperature

- –30°C to 80°C (AWM)
- –30°C to 105°C (CM)

Conductor Color Coding

- 22 AWG: Chart B (page 499)
- 20, 18 AWG: Chart A (page 499)

Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Foil + braid shield:
  Aluminum/polyester/aluminum foil with 25% overlap min.
  Tinned copper drain wire sized the same as conductors
  Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

Availability

- 50, 100, 500, 1000 m

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B964014	1	0.195	4.95	0.032	0.81
B964024	2	0.259	6.58	0.032	0.81
B964034	3	0.272	6.91	0.032	0.81
B964044	4	0.294	7.47	0.032	0.81
B964054	5	0.318	8.08	0.032	0.81
B964064	6	0.343	8.71	0.032	0.81
B964094	9	0.395	10.03	0.032	0.81
B964114	11	0.423	10.74	0.032	0.81
B964154	15	0.474	12.04	0.032	0.81
B964194	19	0.506	12.85	0.032	0.81
B964274	27	0.648	16.46	0.053	1.35

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B965024	2	0.325	8.25	0.032	0.81
B965034	3	0.343	8.71	0.032	0.81
B965064	6	0.442	11.23	0.032	0.81
B965094	9	0.514	13.06	0.032	0.81
B965194	19	0.718	18.24	0.053	1.35

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B966024	2	0.354	8.99	0.032	0.81
B966034	3	0.375	9.52	0.032	0.81
B966064	6	0.487	12.37	0.032	0.81
B966094	9	0.610	15.49	0.053	1.35
B966274	27	1.007	25.58	0.083	2.11

Communication and Control Cable

300 V Unshielded, Multiconductor



UL AWM 2509, 2576
UL CL2
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG and CL2)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M33403	3	0.191	4.85	0.020	0.51
M33404	4	0.209	5.31	0.020	0.51
M33406	6	0.251	6.38	0.020	0.51
M33408	8	0.273	6.93	0.020	0.51
M33410	10	0.320	8.13	0.020	0.51
M33412	12	0.331	8.41	0.020	0.51
M33415	15	0.362	9.19	0.020	0.51

18 AWG (0.81 mm²)

Stranding: 16/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M33502	2	0.208	5.28	0.025	0.64
M33503	3	0.220	5.59	0.025	0.64
M33504	4	0.241	6.12	0.025	0.64
M33505	5	0.264	6.71	0.025	0.64
M33506	6	0.288	7.32	0.025	0.64
M33507	7	0.288	7.32	0.025	0.64
M33508	8	0.313	7.95	0.025	0.64
M33510	10	0.366	9.30	0.025	0.64
M33512	12	0.378	9.60	0.025	0.64
M33515	15	0.423	10.74	0.030	0.76

Communication and Control Cable

300 V Unshielded, Multiconductor



UL AWM 2464
UL CL2
CSA AWM I/II A/B FT4

Operating Temperature

- -20°C to 105°C (CSA)
- -20°C to 90°C (CL2)
- -20°C to 80°C (AWM)

Conductor Color Coding

- Chart R (page 506)
- Chart F (page 503)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

20 AWG (0.50 mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
882002	2	0.202	5.13	0.032	0.81	R
882003	3	0.213	5.41	0.032	0.81	R
882004	4	0.231	5.87	0.032	0.81	R
882005	5	0.251	6.38	0.032	0.81	R
882006	6	0.272	6.91	0.032	0.81	R
882007	7	0.272	6.91	0.032	0.81	R
882008	8	0.293	7.44	0.032	0.81	R

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
881802	2	0.222	5.64	0.032	0.81	R
881803	3	0.234	5.94	0.032	0.81	F
881804	4	0.255	6.48	0.032	0.81	R
881805	5	0.278	7.06	0.032	0.81	R
881806	6	0.289	7.34	0.032	0.81	R
881807	7	0.302	7.67	0.032	0.81	R
881808	8	0.341	8.66	0.032	0.81	R
881809	9	0.379	9.63	0.032	0.81	R
881812	12	0.408	10.36	0.032	0.81	F

Communication and Control Cable

300 V Unshielded, Multiconductor



UL AWM 2509 VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1895C	2	0.180	4.57	0.020	0.51
1896C	3	0.191	4.85	0.020	0.51
1896/4C	4	0.209	5.31	0.020	0.51
1896/5C	5	0.230	5.84	0.020	0.51
1896/6C	6	0.251	6.38	0.020	0.51
1896/7C	7	0.251	6.38	0.020	0.51
1896/8C	8	0.273	6.93	0.020	0.51
1896/9C	9	0.301	7.65	0.023	0.58
1896/10C	10	0.320	8.13	0.020	0.51
1896/12C	12	0.331	8.41	0.020	0.51
1896/15C	15	0.382	9.70	0.030	0.76

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1897C	2	0.198	5.03	0.020	0.51
1898C	3	0.210	5.33	0.020	0.51
1898/4C	4	0.231	5.87	0.020	0.51
1898/5C	5	0.254	6.45	0.020	0.51
1898/6C	6	0.278	7.06	0.020	0.51
1898/7C	7	0.278	7.06	0.020	0.51
1898/8C	8	0.313	7.95	0.025	0.64
1898/9C	9	0.337	8.56	0.025	0.64
1898/10C	10	0.366	9.30	0.025	0.64
1898/12C	12	0.378	9.60	0.025	0.64
1898/15C	15	0.423	10.74	0.030	0.76
1898/19C	19	0.455	11.56	0.030	0.76
1898/25C	25	0.544	13.82	0.035	0.89

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1899C	2	0.222	5.64	0.020	0.51
1899/3C	3	0.236	5.99	0.020	0.51
1899/4C	4	0.260	6.60	0.020	0.51

Communication and Control Cable

300 V Unshielded, Multiconductor



14 AWG (2.09 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1891C	2	0.268	6.81	0.020	0.51
1891/3C	3	0.286	7.26	0.020	0.51

UL CL2 VW-1
CSA AWM I/II A/B FT1

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CL2)

Conductor Color Coding

- Chart D (page 502)

12 AWG (3.31 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1892C	2	0.312	7.92	0.023	0.58
1892/3C	3	0.333	8.46	0.023	0.58

Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Communication and Control Cable

300 V Unshielded, Multiconductor



UL AWM 2576 (150 V) VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded or Solid tinned copper conductors
- PVC insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1172C	2	0.164	4.17	0.032	0.81
1173C	3	0.172	4.37	0.032	0.81
1174C	4	0.185	4.70	0.032	0.81
1175C	5	0.200	5.08	0.032	0.81
1176C	6	0.215	5.46	0.032	0.81
1177C	7	0.215	5.46	0.032	0.81
1178C	8	0.230	5.84	0.032	0.81
1179C	9	0.246	6.25	0.032	0.81
1180C	10	0.264	6.71	0.032	0.81
1181C	12	0.272	6.91	0.032	0.81
1181/15C	15	0.294	7.47	0.032	0.81
1181/20C	20	0.326	8.28	0.032	0.81
1181/25C	25	0.364	9.25	0.032	0.81
1181/30C	30	0.385	9.78	0.032	0.81
1181/40C	40	0.429	10.90	0.032	0.81
1181/50C	50	0.478	12.14	0.035	0.89
1181/60C	60	0.520	13.21	0.035	0.89

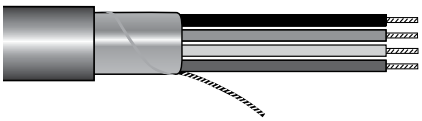
22 AWG (0.32 mm²)

Stranding: Solid
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1793C	2	0.157	3.99	0.032	0.81

Communication and Control Cable

300 V Foil Shield, Multiconductor



UL AWM 2464
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

20 AWG (0.56 mm²)

Stranding: 7/28 (10 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M4660	2	0.211	5.36	0.032	0.81
M4661	3	0.222	5.64	0.032	0.81
M4662	4	0.240	6.10	0.032	0.81
M4664	6	0.282	7.16	0.032	0.81
M4665	8	0.304	7.72	0.032	0.81
M4666	10	0.351	8.92	0.032	0.81
M4668	15	0.393	9.98	0.032	0.81
M4670	20	0.437	11.10	0.032	0.81
M4672	25	0.491	12.47	0.032	0.81
M4675	40	0.625	15.88	0.053	1.35
M4677	50	0.685	17.40	0.053	1.35

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M4690	2	0.229	5.82	0.032	0.81
M4691	3	0.241	6.12	0.032	0.81
M4692*	2	0.229	5.82	0.032	0.81
M4693*	3	0.241	6.12	0.032	0.81
M4694	8	0.262	6.65	0.032	0.81
M4696	4	0.309	7.85	0.032	0.81
M4697	6	0.334	8.48	0.032	0.81
M4698	8	0.387	9.83	0.032	0.81
M4700	10	0.436	11.07	0.032	0.81
M4702	15	0.485	12.32	0.032	0.81
M4704	20	0.545	13.84	0.032	0.81
M4706	25	0.620	15.75	0.053	1.35
M4708	30	0.690	17.53	0.053	1.35

16 AWG (1.32 mm²)

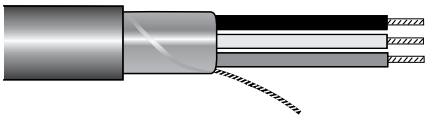
Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M4720	2	0.253	6.43	0.032	0.81
M4721	3	0.267	6.78	0.032	0.81
M4722*	2	0.253	6.43	0.032	0.81
M4723*	3	0.267	6.78	0.032	0.81
M4724	4	0.291	7.39	0.032	0.81
M4726	6	0.345	8.76	0.032	0.81
M4728	8	0.374	9.50	0.032	0.81
M4730	10	0.435	11.05	0.032	0.81
M4732	15	0.489	12.42	0.032	0.81

*Conductor color coding: 1 Brown, 2 Blue, 3 Green/Yellow.

Communication and Control Cable

300 V Foil Shield, Multiconductor



UL AWM 2576 (150 V) VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1212C	2	0.156	3.96	0.032	0.81
1213C	3	0.163	4.14	0.032	0.81
1214C	4	0.174	4.42	0.032	0.81
1215C	5	0.187	4.75	0.032	0.81
1216C	6	0.201	5.11	0.032	0.81
1217C	7	0.201	5.11	0.032	0.81
1218C	8	0.214	5.44	0.032	0.81
1219C	9	0.228	5.79	0.032	0.81
1219/10C	10	0.244	6.20	0.032	0.81
1219/12C	12	0.251	6.38	0.032	0.81
1219/15C	15	0.270	6.86	0.032	0.81
1219/20C	20	0.298	7.57	0.032	0.81
1219/25C	25	0.332	8.43	0.032	0.81
1219/37C	37	0.376	9.55	0.032	0.81
1219/40C	40	0.390	9.91	0.032	0.81
1219/50C	50	0.427	10.85	0.032	0.81

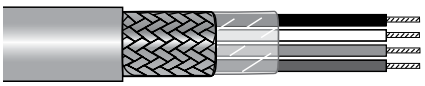
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1292C	2	0.168	4.27	0.032	0.81
1293C	3	0.176	4.47	0.032	0.81
1294C	4	0.189	4.80	0.032	0.81
1295C	5	0.204	5.18	0.032	0.81
1296C	6	0.219	5.56	0.032	0.81
1297C	7	0.219	5.56	0.032	0.81
1298C	8	0.234	5.94	0.032	0.81
1299C	9	0.250	6.35	0.032	0.81
1299/10C	10	0.268	6.81	0.032	0.81
1299/12C	12	0.276	7.01	0.032	0.81
1299/15C	15	0.298	7.57	0.032	0.81
1299/20C	20	0.330	8.38	0.032	0.81
1299/25C	25	0.368	9.35	0.032	0.81
1299/30C	30	0.389	9.88	0.032	0.81
1299/37C	37	0.418	10.62	0.032	0.81
1299/40C	40	0.433	11.00	0.032	0.81
1299/50C	50	0.482	12.24	0.035	0.89

Communication and Control Cable

300 V Foil Shield, Multiconductor



UL AWM 2095, 2464
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG)

Conductor Color Coding

- Chart D (page 502), unless otherwise noted

Materials

- Stranded tinned copper conductors
- PVC insulation
- Tinned copper braid shield, 85% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

UL 2095

22 AWG (0.035mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3202	2	0.189	4.80	0.020	0.51
M13203	3	0.199	5.05	0.020	0.51
M3204	4	0.215	5.46	0.020	0.51

UL 2095

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3206	2	0.205	5.21	0.020	0.51
M3207	3	0.216	5.49	0.020	0.51
M3208	4	0.234	5.94	0.020	0.51
M13209*	6	0.300	7.62	0.032	0.81
M13210*	12	0.396	10.06	0.040	1.02

*UL AWM 2464. Conductor color code Chart F

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3212	2	0.223	5.66	0.020	0.51
M3213	3	0.235	5.97	0.020	0.51
M3214	4	0.256	6.50	0.020	0.51

UL 2095

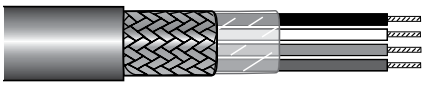
16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3216	2	0.247	6.27	0.020	0.51
M3217	3	0.261	6.63	0.020	0.51

Communication and Control Cable

300 V Foil Shield, Multiconductor



UL AWM 2095 VW-1
UL AWM 1108
(Single-Conductor Cables)
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded or solid tinned copper conductors
- PVC insulation
- Clear polyester wrap (multiconductor only)
- Bare copper braid shield, 75% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

22 AWG (0.32 mm²)

Stranding: Solid
Insulation thickness: 0.020 (0.51 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1775C	2	0.195	4.95	0.020	0.51

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1735	1	0.124	3.15	0.020	0.51
1736C	2	0.189	4.80	0.020	0.51
1737C	3	0.199	5.05	0.020	0.51
1738C	4	0.215	5.46	0.020	0.51

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1741C	2	0.205	5.21	0.020	0.51
1742C	3	0.216	5.49	0.020	0.51
1743C	4	0.234	5.94	0.020	0.51

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1745	1	0.141	3.58	0.020	0.51
1746C	2	0.223	5.66	0.020	0.51
1747C	3	0.235	5.97	0.020	0.51
1747/4C	4	0.256	6.50	0.020	0.51

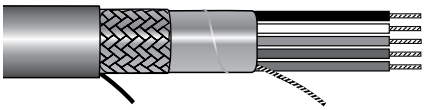
16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1748C	2	0.247	6.27	0.020	0.51
1749C	3	0.261	6.63	0.020	0.51

Communication and Control Cable

300 V Foil + Braid Shield, Multiconductor



UL AWM 2464
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 70% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M5360	2	0.233	5.92	0.032	0.81
M5361	3	0.241	6.12	0.032	0.81
M5362	4	0.262	6.65	0.032	0.81
M5364	6	0.304	7.72	0.032	0.81
M5365	8	0.326	8.28	0.032	0.81
M5366	10	0.373	9.47	0.032	0.81
M5368	15	0.415	10.54	0.032	0.81
M5370	20	0.459	11.66	0.032	0.81
M5372	25	0.513	13.03	0.032	0.81
M5377	50	0.713	18.11	0.053	1.35

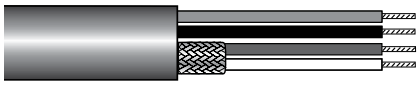
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M5390	2	0.251	6.38	0.032	0.81
M5391	3	0.263	6.68	0.032	0.81
M5392*	2	0.251	6.38	0.032	0.81
M5393*	3	0.263	6.68	0.032	0.81
M5394	4	0.284	7.21	0.032	0.81
M5396	6	0.328	8.33	0.032	0.81
M5397	8	0.356	9.04	0.032	0.81
M5398	10	0.409	10.39	0.032	0.81
M5400	15	0.456	11.58	0.032	0.81
M5402	20	0.507	12.88	0.032	0.81

Communication and Control Cable

300 V Unshielded + Braid Shield Composite, Multiconductor



UL AWM 2785 VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 75°C (CM)
- -20°C to 60°C (AWM, CMG)

Conductor Color Coding

- See tables

Materials

- Stranded tinned copper conductors
- PVC insulation
- Tinned copper braid shield, 80% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)*
500 ft (152 m)*
1,000 ft (305 m)
***Parts 1243, 1243/4, and 1243/5 only**

22 AWG Composite Shielded and Unshielded, UL AWM 2785, UL CM, and CSA CMG

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Configuration	
		Inch	mm	Inch	mm	Shielded	Unshielded
1243	3	0.190	4.83	0.020	0.51	1	2
1243/4	4	0.185 x 0.285	4.70 x 7.24	0.020	0.51	2	2
1243/5	5	0.195 x 0.300	4.95 x 7.62	0.020	0.51	3	2

Conductor Color Coding
Shielded: 1 White, 2 Black, 3 Red
Unshielded: 1 Black, 2 Red

22 and 18 AWG Unshielded, UL CM and CSA CMG Only

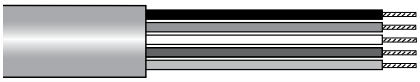
22 AWG (0.35 mm²)	18 AWG (0.81 mm²)
Stranding: 7/30 (7 x 0.25 mm) Insulation thickness: 0.010 (0.25 mm)	16/30 (16 x 0.25 mm) 0.018 (0.45 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Configuration	
		Inch	mm	Inch	mm	Shielded	Unshielded
1826C	4	2	0.241	6.12	0.025	0.63	
1827C	5	2	0.247	6.27	0.028	0.71	
1828C	6	2	0.261	6.63	0.028	0.71	

Conductor Color Coding
22 AWG: Chart I (page)
18 AWG: Chart D (page)

Communication and Control Cable

300 V Unshielded, Multiconductor



UL AWM 2464, 2509, 2576,
UL CM, CMG
CSA CM, CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM, CMG)

Conductor Color Coding

- Chart O (page 505)
- Chart F (page 503)
- Chart J (page 504)

Materials

- Stranded tinned copper conductors
- PVC or semirigid PVC insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

UL AWM 2509, UL CMG, PVC Insulation

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code J

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M13302	2	0.174	4.42	0.025	0.64

UL AWM 2576, UL CM, PVC Insulation (150 V)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
M13303	3	0.172	4.37	0.032	0.81	Black, Grren, Red
M13304	4	0.185	4.70	0.032	0.81	Chart O
M13305	5	0.200	5.08	0.032	0.81	Chart O
M13306	6	0.215	5.46	0.032	0.81	Chart O
M13307	7	0.215	5.46	0.032	0.81	Chart O
M13308	8	0.230	5.84	0.032	0.81	Chart O
M13309	9	0.246	6.25	0.032	0.81	Chart O
M13310	10	0.264	6.71	0.032	0.81	Chart O
M13312	12	0.272	6.91	0.032	0.81	Chart O
M13315	15	0.310	7.87	0.040	1.02	Chart F
M13320	20	0.342	8.69	0.040	1.02	Chart F
M13325	25	0.380	9.65	0.040	1.02	Chart F
M13330	30	0.401	10.19	0.040	1.02	Chart F
M13340	40	0.445	11.30	0.040	1.02	Chart F
M13350	50	0.498	12.65	0.045	1.14	Chart F

UL AWM 2464, UL CM, PVC Insulation

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.013 (0.33 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
M13404	4	0.219	5.56	0.032	0.81	Chart O
M13405	5	0.238	6.05	0.032	0.81	Chart O
M13407	7	0.257	6.53	0.032	0.81	Chart O
M13409	9	0.303	7.70	0.035	0.89	Chart O
M13412	12	0.336	8.53	0.035	0.89	Chart O
M13415	15	0.374	9.50	0.040	1.02	Chart F

UL AWM 2509, UL CMG, PVC Insulation

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code J

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M13402	2	0.180	4.57	0.020	0.51

Communication and Control Cable

300 V Unshielded, Multiconductor



UL AWM 2464, 2509, 2598
UL CM, CMG
UL CL2, CL3
CSA CM, CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM, CMG, CL2, CL3)

Conductor Color Coding

- Chart O (page 505)
- Chart F (page 503)
- Chart J (page 504)

Materials

- Stranded tinned copper conductors
- PVC or semirigid PVC insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

UL AWM 2509, UL CMG, PVC Insulation

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code J

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M13502	2	0.198	5.03	0.020	0.51

UL AWM 2598, UL CM, PVC Insulation

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.018 (0.46 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
M13503	3	0.249	6.32	0.032	0.81	O
M13504	4	0.272	6.91	0.032	0.81	O
M13505	5	0.297	7.54	0.032	0.81	O
M13507	7	0.333	8.46	0.037	0.94	O
M13509	9	0.387	9.83	0.037	0.94	O
M13512	12	0.437	11.10	0.040	1.02	F
M13515	15	0.485	12.32	0.045	1.14	F
M13519	19	0.520	13.21	0.045	1.14	F
M13525	25	0.636	16.15	0.060	1.52	F

UL AWM 2463, UL CL2 or CL3, PVC Insulation

14 AWG (2.08 mm²)

Stranding: 19/0.0147 (19 x 0.37 mm)
Insulation thickness: 0.032 (0.81 mm)
Color Code F

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Approval
		Inch	mm	Inch	mm	
M13582	2	0.346	8.79	0.035	0.89	CL2
M13584	4	0.404	10.26	0.035	0.89	CL3

Communication and Control Cable

300 V Unshielded, Multiconductor



UL AWM 2464, 2509, 2576
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG)

Conductor Color Coding

- Chart E (page 503) for AWM 2464
- Chart D (page 502) for AWM 2576

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

UL AWM 2464, UL CMG

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code E

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M38902	2	0.155	3.94	0.032	0.81
M38903	3	0. 162	4.11	0.032	0.81
M38904	4	0.173	4.39	0.032	0.81
M38906	6	0.200	5.08	0.032	0.81
M38908	8	0.213	5.41	0.032	0.81
M38910	10	0.243	6.17	0.032	0.81
M38915	15	0.269	6.83	0.032	0.81
M38920	20	0.297	7.54	0.032	0.81
M38925	25	0.331	8.41	0.032	0.81
M38930	30	0.349	8.86	0.032	0.81
M38940	40	0.389	9.88	0.032	0.81
M38950	50	0.426	10.82	0.032	0.81

UL AWM 2576, UL CMG

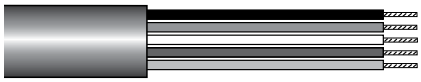
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code D

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M33302	2	0.164	4.16	0.032	0.81
M33303	3	0.175	4.45	0.032	0.81
M33304	4	0.188	4.78	0.032	0.81
M33305	5	0.203	5.16	0.032	0.81
M33306	6	0.218	5.54	0.032	0.81
M33308	8	0.233	5.92	0.032	0.81
M33310	10	0.267	6.78	0.032	0.81
M33312	12	0.275	6.99	0.032	0.81
M33315	15	0.297	7.54	0.032	0.81
M33320	20	0.329	8.36	0.032	0.81
M33325	25	0.367	9.32	0.032	0.81

Communication and Control Cable

300 V Unshielded, Multiconductor



UL AWM 2464
UL CL2
CSA AWM I/II A/B FT4

Operating Temperature

- -20°C to 105°C (CSA)
- -20°C to 90°C (CL2)
- -20°C to 80°C (AWM)

Conductor Color Coding

- Chart E (page 503)
- Chart F (page 503)
- Chart R (page 506)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
882402	2	0.152	3.86	0.032	0.81	E
882403	3	0.159	4.04	0.032	0.81	E
882404	4	0.170	4.32	0.032	0.81	E

22 AWG (0.35 mm²)

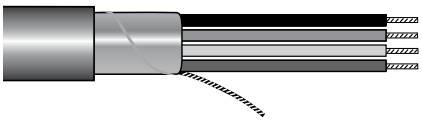
Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
882202	2	0.164	4.17	0.032	0.81	R
882203	3	0.172	4.37	0.032	0.81	R
882204	4	0.185	4.70	0.032	0.81	R
882205	5	0.200	5.08	0.032	0.81	R
882206	6	0.215	5.46	0.032	0.81	R
882207	7	0.215	5.46	0.032	0.81	R
882208	8	0.230	5.84	0.032	0.81	R
882209	9	0.246	6.25	0.032	0.81	R
882210	10	0.264	6.71	0.032	0.81	R
882212	12	0.272	6.91	0.032	0.81	R
882215	15	0.294	7.47	0.032	0.81	F
882220	20	0.326	8.28	0.032	0.81	F

RoHS Compliant

Communication and Control Cable

300 V Foil Shield, Multiconductor



UL AWM 2464
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG)

Conductor Color Coding

- Chart E (page 503)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M4602	2	0.159	4.04	0.032	0.81
M4603	3	0.166	4.22	0.032	0.81
M4604	4	0.178	4.52	0.032	0.81
M4606	6	0.204	5.18	0.032	0.81
M4607	8	0.217	5.51	0.032	0.81
M4608	10	0.247	6.27	0.032	0.81
M4610	15	0.273	6.93	0.032	0.81
M4612	20	0.301	7.65	0.032	0.81
M4616	30	0.353	8.97	0.032	0.81

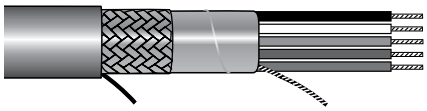
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M4633	2	0.171	4.34	0.032	0.81
M4634	3	0.179	4.55	0.032	0.81
M4635	4	0.192	4.88	0.032	0.81
M4636	6	0.222	5.64	0.032	0.81
M4638	8	0.237	6.02	0.032	0.81
M4640	10	0.271	6.88	0.032	0.81
M4642	15	0.301	7.65	0.032	0.81
M4644	20	0.333	8.46	0.032	0.81
M4646	25	0.371	9.42	0.032	0.81
M4648	30	0.392	9.96	0.032	0.81
M4650	40	0.436	11.07	0.032	0.81
M4652	50	0.479	12.17	0.032	0.81

Communication and Control Cable

300 V Foil + Braid Shield, Multiconductor



UL AWM 2464
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

28 AWG (0.08 mm²)

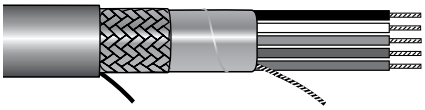
Stranding: 7/36 (7 x 0.12 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M2403	3	0.165	4.19	0.032	0.81
M2404	4	0.175	4.45	0.032	0.81
M2405	5	0.185	4.70	0.032	0.81
M2406	6	0.196	4.98	0.032	0.81
M2407	7	0.196	4.98	0.032	0.81
M2408	8	0.206	5.23	0.032	0.81
M2409	9	0.217	5.51	0.032	0.81
M2410	10	0.230	5.84	0.032	0.81
M2412	15	0.251	6.38	0.032	0.81
M2414	25	0.300	7.62	0.032	0.81

Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

Communication and Control Cable

300 V Foil + Braid Shield, Multiconductor



UL AWM 2464
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG)

Conductor Color Coding

- Chart E (page 503)
- Chart F (page 502)
- Chart O (page 505)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% or 70% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

65% Braid Coverage

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
M2438	3	0.185	4.70	0.032	0.81	O
M2439	4	0.196	4.98	0.032	0.81	O
M2440	5	0.209	5.31	0.032	0.81	O
M2441	6	0.223	5.66	0.032	0.81	O
M2442	7	0.223	5.66	0.032	0.81	O
M2443	8	0.236	5.99	0.032	0.81	O
M2444	9	0.250	6.35	0.032	0.81	O
M2445	10	0.266	6.76	0.032	0.81	O
M2447	15	0.292	7.42	0.032	0.81	F
M2449	25	0.354	8.99	0.032	0.81	F

Mutual capacitance: 32 pF/ft (105 pF/m)
Ground capacitance: 58 pF/ft (190 pF/m)

70% Braid Coverage

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code E

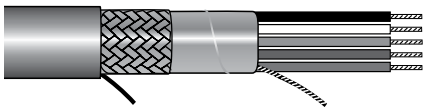
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M5333	2	0.193	4.90	0.032	0.81
M5334	3	0.201	5.11	0.032	0.81
M5335	4	0.214	5.44	0.032	0.81
M5336	6	0.244	6.20	0.032	0.81
M5338	8	0.259	6.58	0.032	0.81
M5340	10	0.293	7.44	0.032	0.81
M5342	15	0.323	8.20	0.032	0.81
M5344	20	0.355	9.02	0.032	0.81
M5346	25	0.393	9.98	0.032	0.81
M5348	30	0.414	10.52	0.032	0.81
M5350	40	0.458	11.63	0.032	0.81
M5352	50	0.501	12.73	0.032	0.81

Mutual capacitance: 36 pF/ft (118.1 pF/m)
Ground capacitance: 65 pF/ft (213.3 pF/m)

Mart No.: M5333
Mutual capacitance: 39 pF/ft (128 pF/m)
Ground capacitance: 70 pF/ft (229.7 pF/m)

Communication and Control Cable

300 V Foil + Braid Shield, Multiconductor



UL AWM 2464
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG)

Conductor Color Coding

- Chart F (page 503)
- Chart O (page 505)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

65% Braid Coverage

22 AWG (0.35 mm²)

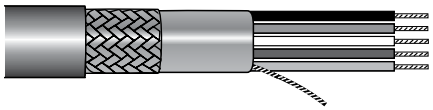
Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
M2473	3	0.198	5.03	0.032	0.81	O
M2474	4	0.211	5.36	0.032	0.81	O
M2475	5	0.226	5.74	0.032	0.81	O
M2476	6	0.241	6.12	0.032	0.81	O
M2477	7	0.241	6.12	0.032	0.81	O
M2478	8	0.256	6.50	0.032	0.81	O
M2479	9	0.272	6.91	0.032	0.81	O
M2480	10	0.290	7.37	0.032	0.81	O
M2481	15	0.320	8.13	0.032	0.81	F
M2482	25	0.390	9.91	0.032	0.81	F

Mutual capacitance: 36 pF/ft (118.1 pF/m)
Ground capacitance: 65 pF/ft (213.3 pF/m)

Communication and Control Cable

300 V Foil + Braid Shield, Multiconductor



UL AWM 2464 VW-1
UL CL2
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CL2)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester/aluminum foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to the conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

28 AWG (0.08 mm²)

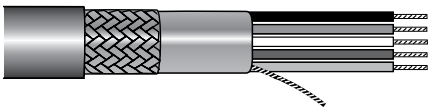
Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3463*	3	0.171	4.34	0.035	0.89
3464C	4	0.181	4.60	0.035	0.89
3465C	5	0.191	4.85	0.035	0.89
3466C	6	0.202	5.13	0.035	0.89
3467C	7	0.202	5.13	0.035	0.89
3468C	8	0.212	5.38	0.035	0.89
3469C	9	0.223	5.66	0.035	0.89
3470C	10	0.236	5.99	0.035	0.89
3470/15C	15	0.267	6.78	0.035	0.89
3470/25C	25	0.312	7.92	0.035	0.89
3470/37C	37	0.347	8.81	0.035	0.89
3470/50C	50	0.397	10.08	0.035	0.89

*UL AWM 2464/CSA CMG only.

Communication and Control Cable

300 V Overall Foil + Braid Shield, Multiconductor



UL AWM 2464 VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CL2)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart F (page 503) for 15-conductor through 50-conductor cables
- See table below for 3-conductor through 10-conductor cables

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire, 24 AWG (0.22 mm^2), 7/32 (7 x 0.22 mm)
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6327	3	0.185	4.70	0.032	0.81
6328	4	0.196	4.98	0.032	0.81
6329	5	0.209	5.31	0.032	0.81
6330	6	0.223	5.66	0.032	0.81
6331	7	0.223	5.66	0.032	0.81
6332	8	0.236	5.99	0.032	0.81
6333	9	0.250	6.35	0.032	0.81
6334	10	0.266	6.76	0.032	0.81
6335	15	0.292	7.42	0.032	0.81
6336	25	0.354	8.99	0.032	0.81
6337	37	0.398	10.11	0.032	0.81
6338	50	0.449	11.40	0.032	0.81

Mutual capacitance: 32 pF/ft (105 pF/m)
Ground capacitance: 58 pF/ft (190 pF/m)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6339	3	0.198	5.03	0.032	0.81
6340	4	0.211	5.36	0.032	0.81
6341	5	0.226	5.74	0.032	0.81
6342	6	0.241	6.12	0.032	0.81
6343	7	0.241	6.12	0.032	0.81
6344	8	0.256	6.50	0.032	0.81
6345	9	0.272	6.91	0.032	0.81
6346	10	0.290	7.37	0.032	0.81
6347	15	0.320	8.13	0.032	0.81
6348	25	0.390	9.91	0.032	0.81
6349	37	0.440	11.18	0.032	0.81
6350	50	0.540	13.72	0.053	1.35

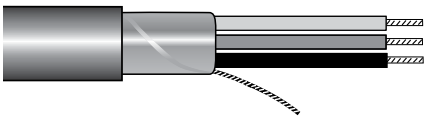
Mutual capacitance: 36 pF/ft (118 pF/m)
Ground capacitance: 65 pF/ft (213 pF/m)

Color Coding: 3 through 10 Conductors

1 Black	6 Blue
2 White	7 Orange
3 Red	8 Yellow
4 Green	9 Violet
5 Brown	10 Slate

Communication and Control Cable

300 V Foil Shield, Multiconductor



UL AWM 2092, 2093, 2094 VW-1
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 75°C (CMG)
- -20°C to 60°C (AWM)

Conductor Color Coding

- 1 Black, 2 Red, 3 Natural, 4 Green

Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward Stranded tinned copper drain wire (see table for sizes)
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m), spool or box
1,000 ft (305 m), spool or box

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)
24 AWG (0.22 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		AWM
		Inch	mm	Inch	mm	
2400C	2	0.156	3.96	0.020	0.51	2092

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
22 AWG (0.35 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		AWM
		Inch	mm	Inch	mm	
2401C*	2	0.168	4.27	0.020	0.51	2092
2402C	2	0.168	4.27	0.020	0.51	2092
2403C	3	0.178	4.52	0.020	0.51	2093
2404C	4	0.194	4.93	0.020	0.51	2094

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.50 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		AWM
		Inch	mm	Inch	mm	
2411C*	2	0.184	4.67	0.020	0.51	2092
2412C	2	0.184	4.67	0.020	0.51	2092
2413C	3	0.195	4.95	0.020	0.51	2093
2414C	4	0.213	5.41	0.020	0.51	2094

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.50 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		AWM
		Inch	mm	Inch	mm	
2421C*	2	0.202	5.13	0.020	0.51	2092
2422C	2	0.202	5.13	0.020	0.51	2092
2423C	3	0.214	5.44	0.020	0.51	2093
2424C	4	0.235	5.97	0.020	0.51	2094

16 AWG (1.32 mm²)

Stranding: 19/0.117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)
18 AWG (0.81 mm²) drain wire

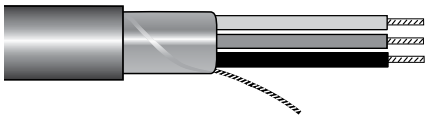
Part No.	Conductors	Nominal Diameter		Jacket Thickness		AWM
		Inch	mm	Inch	mm	
2432C	2	0.226	5.74	0.020	0.51	2092
2433C	3	0.240	6.10	0.020	0.51	2093

*Color code: 1 black, 2 natural.

UL LISTED CSA PROP 65 RoHS Compliant

Communication and Control Cable

300 V Foil Shield, Multiconductor



UL CL2
CSA AWM I/II A/B FT4

Operating Temperature

- -20°C to 75°C (CL2)
- -20°C to 60°C (AWM)

Conductor Color Coding

- 1 Black, 2 Red, 3 Natural, 4 Green

Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire (see table for sizes)
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m), spool or box
1,000 ft (305 m), spool or box

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)
16 AWG (1.32 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		UL
		Inch	mm	Inch	mm	
2442C	2	0.292	7.42	0.030	0.76	CL2

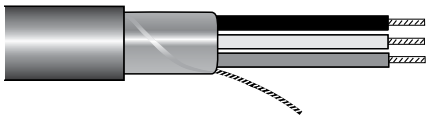
12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)
14 AWG (2.08 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		UL
		Inch	mm	Inch	mm	
2444C	2	0.330	8.38	0.030	0.76	CL2

Communication and Control Cable

300 V Foil Shield, Multiconductor



UL CM
VW-1
CSA CMG FT4

Operating Temperature

- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- 1 White, 2 Black, 3 Red, 4 Green
- 1 Black, 2 Red, 3 White, 4 Green

Materials

- Stranded tinned copper conductors (except 2460C)
- PP, PE or PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  1243/3C: foil facing inward
  Stranded tinned copper drain wire (except 2460C)
- Slate PVC jacket
  2461C: slate or black

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

PP Polypropylene Insulation

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm) or Solid
Insulation thickness: 0.008 (0.20 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Configuration	
		Inch	mm	Inch	mm	Shielded	Unshielded
2460C	2 (solid)	0.126	3.20	0.020	0.51	2	0
2461C	2	0.136	3.45	0.020	0.51	2	0

PE Polyethylene Insulation

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.014 (0.36 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Configuration	
		Inch	mm	Inch	mm	Shielded	Unshielded
1243/3C	3	0.210	5.33	0.030	0.76	2	1
2464C	4	0.165	4.19	0.020	0.51	2	2

PVC Insulation

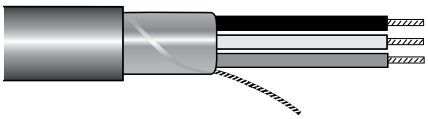
20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.015 (0.38 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Configuration	
		Inch	mm	Inch	mm	Shielded	Unshielded
2465C	4	0.240	6.10	0.030	0.76	2	2

Communication and Control Cable

300 V Foil Shield, Multiconductor



UL AWM 2464 VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart F (page 503)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm²)

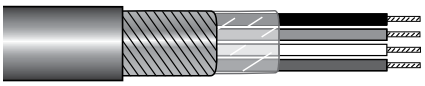
Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6300/3*	3	0.163	4.14	0.032	0.81
6300/4*	4	0.174	5.44	0.032	0.81
6305	5	0.187	4.75	0.032	0.81
6306*	6	0.201	5.11	0.032	0.81
6300/8*	8	0.214	5.44	0.032	0.81
6300/10*	10	0.244	6.20	0.032	0.81
6307	15	0.270	6.86	0.032	0.81
6308	20	0.298	7.57	0.032	0.81
6309	25	0.332	8.43	0.032	0.81
6310	30	0.366	9.30	0.040	1.02
6311	40	0.406	10.31	0.040	1.02
6312	50	0.453	11.51	0.045	1.14

Mutual capacitance: 32 pF/ft (105 pF/m)
Ground capacitance: 58 pF/ft (190 pF/m)

Communication and Control Cable

300 V Spiral Shield, Multiconductor



AWM 2095
AWM 1108
(Single-conductor cables)

Operating Temperature

- -20°C to 80°C

Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green, 5 Yellow, 6 Blue

Materials

- Stranded tinned copper conductors
- PVC insulation
- Clear polyester wrap (multiconductor only)
- Bare copper spiral shield, 95% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2254/1	1	0.112	2.84	0.020	0.51
2254	2	0.177	4.50	0.020	0.51
2254/3	3	0.187	4.75	0.020	0.51
2254/4	4	0.206	5.23	0.020	0.51
2254/6	6	0.243	6.17	0.020	0.51

20 AWG (0.56 mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

(page 503)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2256/1	1	0.119	3.02	0.020	0.51
2256	2	0.191	4.85	0.020	0.51
2256/3	3	0.202	5.13	0.020	0.51
2256/4	4	0.223	5.66	0.020	0.51
2256/6	6	0.264	6.71	0.020	0.51

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2258/1	1	0.129	3.28	0.020	0.51
2258	2	0.214	5.44	0.020	0.51
2258/3	3	0.226	5.74	0.020	0.51
2258/4	4	0.247	6.27	0.020	0.51

16 AWG (1.32 mm²)

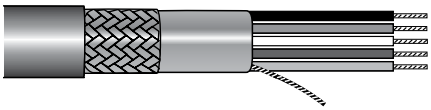
Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2260	2	0.240	6.10	0.020	0.51
2260/3	3	0.254	6.45	0.020	0.51

CA PROP 65 RoHS Compliant

Communication and Control Cable

Low Capacitance Data Cable
300 V Foil + Braid Shield, Multiconductor



UL AWM 2919 (30 V) VW-1
UL CM
CSA CMH FT1

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMH)

Conductor Color Coding

- For 1 - 10 Conductors, see table at right
- For 15 - 37 Conductors, Chart F (page 532)

Materials

- Stranded tinned copper conductors
- Foam polyethylene insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6351	3	0.217	5.51	0.035	0.89
6352	4	0.231	5.87	0.035	0.89
6353	5	0.248	6.30	0.035	0.89
6354	6	0.265	6.73	0.035	0.89
6355	7	0.265	6.73	0.035	0.89
6356	8	0.282	7.16	0.035	0.89
6357	9	0.300	7.62	0.035	0.89
6358	10	0.320	8.13	0.035	0.89
6359	15	0.353	8.97	0.035	0.89
6360	25	0.432	10.97	0.035	0.89
6361	37	0.514	13.06	0.048	1.22

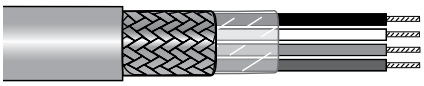
Mutual capacitance: 12 pF/ft (39.4 pF/m)
Ground capacitance: 22 pF/ft (72.2 pF/m)

Color Coding

1 Black	5 Brown	9 Violet
2 White	6 Blue	10 Slate
3 Red	7 Orange	
4 Green	8 Yellow	

Communication and Control Cable

Audio/Video Cable
300 V Braid Shield, Multiconductor



UL AWM 2092, 2093, 2094
UL CM

Operating Temperature

- -20°C to 75°C (CM)
- -20°C to 60°C (AWM)

Conductor Color Coding

- Chart H (page 504)

Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

24 AWG (0.20 mm²)

Stranding: 10/34 (10 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		UL AWM
		Inch	mm	Inch	mm	
M1102	2	0.177	4.50	0.020	0.51	2092
M1103	3	0.186	4.72	0.020	0.51	2093
M1104	4	0.200	5.08	0.020	0.51	2094
M1105	5	0.217	5.51	0.020	0.51	2094
M1106	6	0.234	5.94	0.020	0.51	2094

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		UL AWM
		Inch	mm	Inch	mm	
M1112	2	0.193	4.90	0.020	0.51	2092
M1113	3	0.203	5.16	0.020	0.51	2093
M1114	4	0.220	5.59	0.020	0.51	2094
M1115	5	0.239	6.07	0.020	0.51	2094
M1116	6	0.258	6.55	0.020	0.51	2094

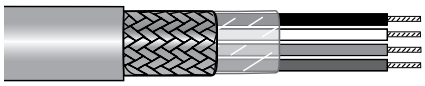
20 AWG (0.52 mm²)

Stranding: 26/34 (26 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		UL AWM
		Inch	mm	Inch	mm	
M1122	2	0.229	5.82	0.032	0.81	2092
M1123	3	0.246	6.25	0.035	0.89	2093
M1124	4	0.264	6.71	0.035	0.89	2094
M1125	5	0.285	7.24	0.035	0.89	2094
M1126	6	0.306	7.77	0.035	0.89	2094
M1128	8	0.328	8.33	0.035	0.89	2094
M1130	10	0.375	9.53	0.035	0.89	2094
M1132	12	0.386	9.80	0.035	0.89	2094
M1135	15	0.417	10.59	0.035	0.89	2094
M1140	20	0.464	11.79	0.035	0.89	2094

Communication and Control Cable

Audio/Video Cable
300 V Braid Shield, Multiconductor



UL AWM 2092, 2093, 2094
UL CM

Operating Temperature

- -20°C to 75°C (CM)
- -20°C to 60°C (AWM)

Conductor Color Coding

- Chart H (page 504)

Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

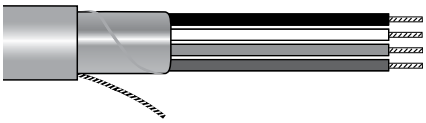
18 AWG (0.82 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		UL AWM
		Inch	mm	Inch	mm	
M1142	2	0.253	6.43	0.035	0.89	2092
M1143	3	0.265	6.73	0.035	0.89	2093
M1144	4	0.286	7.26	0.035	0.89	2094
M1146	6	0.333	8.46	0.035	0.89	2094

Communication and Control Cable

Audio/Video Cable
300 V Overall Foil Shield, Multiconductor



UL AWM 2092, 2093, 2094
UL CMG
CSA CMG
CSA FT4

Operating Temperature

- -20°C to 75°C (CMG)
- -20°C to 60°C (AWM)

Conductor Color Coding

- AWM 2092: 1 Black, 2 Red (except Part No. M3222: Black, Natural)
- AWM 2093: 1 Black, 2 Red, 3 Natural
- AWM 2094: 1 Black, 2 Red, 3 Natural, 4 Green

Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire (see tables for size)
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
22 AWG (0.35 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		UL AWM
		Inch	mm	Inch	mm	
M3226	2	0.171	4.34	0.020	0.51	2092

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.56 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		UL AWM
		Inch	mm	Inch	mm	
M3232	2	0.187	4.75	0.020	0.51	2092
M3233	3	0.198	5.03	0.020	0.51	2093
M3234	4	0.216	5.49	0.020	0.51	2094

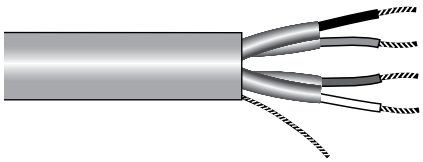
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.56 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		UL AWM
		Inch	mm	Inch	mm	
M3242	2	0.205	5.21	0.020	0.51	2092
M3243	3	0.217	5.51	0.020	0.51	2093
M3244	4	0.238	6.05	0.020	0.51	2094

Communication and Control Cable

Audio/Video Cable
300 V Individual Foil Shield, Multipair



UL AWM 2464, 2493, 2919 (30 V)
UL CM
CSA CM

Operating Temperature

- -20°C to 80°C (AWM 2464)
- -20°C to 75°C (CM)
- -20°C to 60°C (AWM 2919, 2493)

Conductor Color Coding

- AWM 2919: Chart K (page 500)
- AWM 2464 and CM: Black/Red, Green/White

Materials

- Solid or stranded tinned copper conductors
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire equal in size to conductor (unless noted)
- Polypropylene, or semirigid PVC insulation (see tables)
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

UL CM, Polypropylene Insulation

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.008 (0.20 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M4473	2	0.150	3.81	0.19	0.48

AWM 2919, UL CM, Polypropylene Insulation

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M13103	3	0.271	6.88	0.032	0.81
M13106	6	0.349	8.86	0.032	0.81
M13109	9	0.412	10.46	0.032	0.81
M13111	11	0.466	11.84	0.035	0.89
M13112	12	0.466	11.84	0.035	0.89
M13115	15	0.537	13.64	0.050	1.27
M13117	17	0.577	14.66	0.050	1.27
M13119	19	0.577	14.66	0.050	1.27
M13127	27	0.685	17.40	0.050	1.27
M13130	37	0.766	19.46	0.050	1.27

AWM 2464, UL CM, SR-PVC Insulation

20 AWG (0.56 mm²)

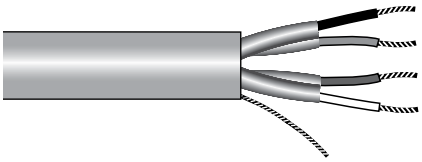
Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M13142	2	0.284	7.21	0.032	0.81

Communication and Control Cable

Audio/Video Cable

300 V Individual Foil Shield, Multipair



UL AWM 2919 (30 V)
UL CMG
CSA CMG

Operating Temperature

- -20°C to 75°C (CMG)
- -20°C to 60°C (AWM 2919)

Conductor Color Coding

- Chart K (page 500)

Materials

- Stranded tinned copper conductors
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire equal in size to conductor (unless noted)
- Polypropylene insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

AWM 2919, UL CMG, Polypropylene Insulation

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.013 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M13143	3	0.319	8.10	0.032	0.81
M13146	6	0.426	10.82	0.035	0.89
M13149	9	0.523	13.28	0.047	1.19

AWM 2919, UL CMG, Polypropylene Insulation

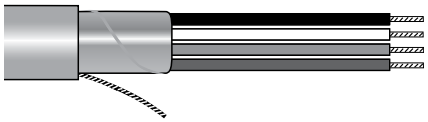
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.56 mm²) drain wire

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M13173	3	0.376	9.55	0.032	0.81
M13176	6	0.529	13.44	0.047	1.19
M13179	9	0.618	15.70	0.047	1.19
M13182	12	0.692	17.58	0.047	1.19

Communication and Control Cable

Audio/Video Cable
300 V Foil Shield, Multiconductor



UL AWM 2092, 2093, 2094, 2464, 20253
UL CM, CMG, CL2
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM 2464, 20253)
- -20°C to 75°C (CM, CMG)
- -20°C to 60°C (AWM 2092, 2093, 2094)

Conductor Color Coding

(Unless noted)
- 2-conductor: Black, clear
- 3-conductor: Black, red, clear

Materials

- Polyethylene or semirigid PVC insulation (see tables)
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire (see tables for size)
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

Polyethylene Insulation

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)
24 AWG (0.22 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Approval	Color Code
		Inch	mm	Inch	mm		
M13222	2	0. 166	4.22	0.025	0.64	2092, CM	Black, Clear

Mutual capacitance: 18 pF/ft (59 pF/m)
Ground capacitance: 32 pF/ft (105 pF/m)

Semi-Rigid PVC Insulation

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.51 mm)
24 AWG (0.22 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Approval	Color Code
		Inch	mm	Inch	mm		
M39024	3	0.166	4.22	0.032	0.81	2464, CMG	O
M39025	4	0.174	4.42	0.032	0.81	2464, CMG	O
M39026	5	0.187	4.75	0.032	0.81	2464, CMG	O
M39027	6	0.201	5.11	0.032	0.81	2464, CMG	O
M39028	7	0.201	5.11	0.032	0.81	2464, CMG	O
M39029	8	0.214	5.44	0.032	0.81	2464, CMG	O
M39030	9	0.228	5.79	0.032	0.81	2464, CMG	O
M39031	10	0.247	6.27	0.032	0.81	2464, CMG	O
M39032	15	0.273	6.93	0.032	0.81	2464, CMG	F
M39033	20	0.301	7.65	0.032	0.81	2464, CMG	F
M39034	25	0.335	8.51	0.032	0.81	2464, CMG	F
M39037	50	0.456	11.58	0.045	1.14	2464, CMG	F

Mutual capacitance: 32 pF/ft (105 pF/m)
Ground capacitance: 58 pF/ft (190.3 pF/m)

Polyethylene Insulation

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
22 AWG (0.35 mm²) drain wire

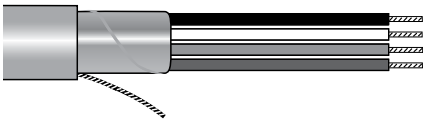
Part No.	Conductors	Nominal Diameter		Jacket Thickness		Approval
		Inch	mm	Inch	mm	
M13226	2	0.178	4.52	0.025	0.64	2092, CM
M13227	3	0.204	5.18	0.033	0.84	2093, CM

Mutual capacitance: 20 pF/ft (65.6 pF/m)
Ground capacitance: 36 pF/ft (118.1 pF/m)

RoHS Compliant

Communication and Control Cable

Audio/Video Cable
300 V Foil Shield, Multiconductor



UL AWM 2092, 2093, 2094, 2464, 20253
UL CM, CMG, CL2
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM 2464, 20253)
- -20°C to 75°C (CM, CMG)
- -20°C to 60°C (AWM 2092, 2093)

Conductor Color Coding

- 2-conductor: Black, clear
- 3-conductor: Black, red, clear
- 4-conductor: Black, red, white, green

Materials

- Polyethylene or semirigid PVC insulation (see tables)
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire (see tables for size)
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

Polyethylene Insulation

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.56 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Approval
		Inch	mm	Inch	mm	
M13232	2	0.200	5.08	0.028	0.71	2092, CM
M13233	3	0.221	5.61	0.033	0.84	2093, CM

Mutual capacitance: 23 pF/ft (75.4 pF/m)
Ground capacitance: 41 pF/ft (134.5 pF/m)

Polyethylene Insulation

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.019 (0.48 mm)
20 AWG (0.56 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Approval
		Inch	mm	Inch	mm	
M13242	2	0.230	5.84	0.028	0.71	2092, CM
M13243	3	0.253	6.43	0.033	0.84	2093, CM

Mutual capacitance: 24.1 pF/ft (79.1 pF/m)
Ground capacitance: 43 pF/ft (141.1 pF/m)

SR-PVC Insulation

18 AWG (0.96 mm²)

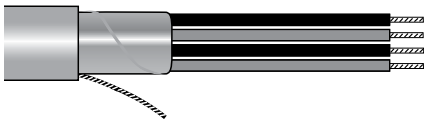
Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
20 AWG (0.56 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Approval
		Inch	mm	Inch	mm	
M13244	4	0.249	6.32	0.035	0.89	2464, CMG

Mutual capacitance: 47 pF/ft (154.2 pF/m)
Ground capacitance: 85 pF/ft (278.9 pF/m)

Communication and Control Cable

Miniature Audio/Video Cable
300 V Foil Shield, Multiconductor



UL CM
CSA CM

Operating Temperature

- -20°C to 75°C

Conductor Color Coding

- 1 Black, 2 Red

Materials

- Stranded tinned copper conductors
- Polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
- M14328 black PVC jacket
  M4326 slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.008 (0.20 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M14328*	2	0.124	3.15	0.020	0.51

22 AWG (0.35 mm²)

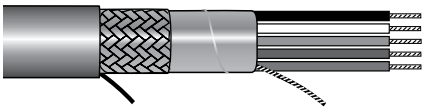
Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.008 (0.20 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M4326	2	0.139	3.53	0.020	0.51

Mutual capacitance: 28 pF/ft (91.8 pF/m)
Ground capacitance: 50 pF/ft 164 pF/m)

Communication and Control Cable

Low Capacitance Computer Cable
300 V Foil + Braid Shield, Multiconductor



UL AWM 2919 (30 V)
UL CM VW-1
CSA CM FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)

Conductor Color Coding

- See table

Materials

- Stranded tinned copper conductors
- Foam polyethylene insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

24 AWG (0.22 mm²)

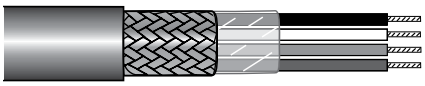
Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
M2456	3	0.217	5.51	0.035	0.89	O
M2457	4	0.231	5.87	0.035	0.89	O
M2458	5	0.248	6.30	0.035	0.89	O
M2459	6	0.265	6.73	0.035	0.89	O
M2460	7	0.265	6.73	0.035	0.89	O
M2461	8	0.282	7.16	0.035	0.89	O
M2462	9	0.300	7.62	0.035	0.89	O
M2463	10	0.320	8.13	0.035	0.89	O

Mutual capacitance: 11.9 pF/ft (39 pF/m)
Ground capacitance: 21.4 pF/ft (70.2 pF/m)

Communication and Control Cable

Composite Audio/Video Cable
450 V Braid Shield, Multiconductor



Operating Temperature

- -20°C to 80°C

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Clear polyester wrap
- Bare copper braid shield, 75% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1750	2	0.299	7.59	0.020	0.51
1751	3	0.317	8.05	0.020	0.51

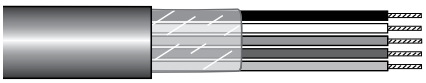
12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1760	2	0.337	8.56	0.020	0.51
1761	3	0.358	9.09	0.020	0.51

Communication and Control Cable

600 V Unshielded, Multiconductor



UL AWM 2463 VW-1

Operating Temperature

- -20°C to 80°C

Conductor Color Coding

- Chart F (page 503)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Clear polyester wrap
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1064	4	0.395	10.03	0.047	1.19
1065	5	0.430	10.92	0.047	1.19
1067	7	0.468	11.89	0.047	1.19
1069	9	0.577	14.66	0.063	1.60
1072	12	0.640	16.26	0.063	1.60
1075	15	0.694	17.63	0.063	1.60
1079	19	0.749	19.02	0.065	1.65
1085	25	0.907	23.04	0.083	2.11

14 AWG (2.08 mm²)

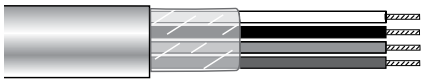
Stranding: 19 x 0.0147 (19 x 0.37 mm)
Insulation thickness: 0.047 (1.19 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1274	4	0.503	12.78	0.047	1.19
1275	5	0.584	14.83	0.063	1.60
1277	7	0.635	16.13	0.063	1.60
1279	9	0.744	18.90	0.065	1.60
1282	12	0.867	22.02	0.083	2.11

CA PROP 65 RoHS Compliant

Communication and Control Cable

600 V Unshielded, Multiconductor



MIL-DTL-16878/1 (Type B)
UL AWM 2576 (150 V) VW-1

Operating Temperature

- -55°C to 105°C (MIL)
- -55°C to 80°C (AWM)

Conductor Color Coding

- 1 White, 2 Black, 3 Red, 4 Green

Materials

- Stranded tinned copper conductors
- Irradiated PVC insulation
- Clear polyester wrap
- White PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6622	2	0.155	3.94	0.032	0.81
6623	3	0.162	4.11	0.032	0.81
6624	4	0.173	4.39	0.032	0.81

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6632	2	0.167	4.24	0.032	0.81
6633	3	0.175	4.44	0.032	0.81
6634	4	0.188	4.78	0.032	0.81

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6642	2	0.183	4.65	0.032	0.81
6643	3	0.192	4.88	0.032	0.81
6644	4	0.207	5.26	0.032	0.81

18 AWG (0.89 mm²)

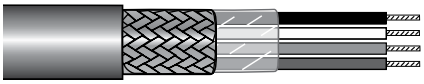
Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6652	2	0.203	5.16	0.032	0.81
6653	3	0.214	5.44	0.032	0.81
6654	4	0.232	5.89	0.032	0.81

CA PROP 65 RoHS Compliant

Communication and Control Cable

600 V Braid Shield, Multiconductor



MIL-DTL-16878/1 (Type B)

Operating Temperature

- -55°C to 105°C

Conductor Color Coding

- Chart F (page 503)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Clear polyester wrap
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
1,000 ft (305 m)

28 AWG (0.09 mm²)

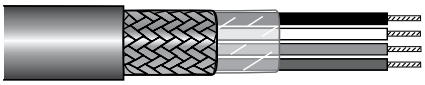
Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3302	2	0.119	3.02	0.012	0.30
3303	3	0.124	3.15	0.012	0.30
3304	4	0.134	3.40	0.012	0.30
3306	6	0.161	4.09	0.015	0.38
3308	8	0.171	4.34	0.015	0.38
3310	10	0.201	5.11	0.018	0.46
3312	12	0.206	5.23	0.018	0.46
3315	15	0.236	5.99	0.020	0.51
3320	20	0.261	6.63	0.022	0.56

CA PROP 65 RoHS Compliant

Communication and Control Cable

1000 V Braid Shield, Multiconductor



MIL-DTL-16878/2 (Type C)

Operating Temperature

- -55°C to 105°C

Conductor Color Coding

- Chart F (page 503)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Clear polyester wrap
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
1,000 ft (305 m)

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3405	5	0.303	7.70	0.025	0.64
3408	8	0.364	9.25	0.030	0.76
3410	10	0.429	10.90	0.035	0.89
3412	12	0.442	11.23	0.035	0.89
3415	15	0.488	12.40	0.040	1.02
3420	20	0.550	13.97	0.045	1.14
3430	30	0.667	16.94	0.055	1.40

16 AWG (1.23 mm²)

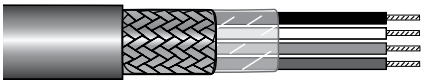
Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.018 (0.45 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3444	4	0.316	8.03	0.031	0.79
3446	6	0.376	9.55	0.034	0.86
3450	10	0.487	12.37	0.044	1.12
3452	12	0.509	12.93	0.048	1.22

CA PROP 65 RoHS Compliant

Communication and Control Cable

600 V Braid Shield, Multiconductor



MIL-DTL-16878/17 (Type B/N)

Operating Temperature

- -55°C to 105°C

Conductor Color Coding

- 1 White, 2 Black, 3 Red, 4 Green (unless otherwise noted)

Materials

- Stranded tinned copper conductors
- PVC/nylon insulation
- Clear polyester wrap (multiconductor only)
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3200	1	0.087	2.21	0.010	0.25
3201	2	0.143	3.63	0.014	0.36
3202	3	0.150	3.81	0.014	0.36
3203	4	0.166	4.22	0.016	0.41

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3210	1	0.093	2.36	0.010	0.25
3211	2	0.159	4.04	0.016	0.41
3212	3	0.167	4.24	0.016	0.41
3213	4	0.182	4.62	0.017	0.43

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

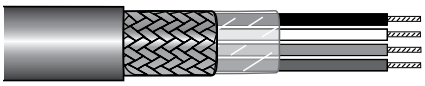
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3220	1	0.100	2.54	0.010	0.25
3221	2	0.173	4.39	0.016	0.41
3222	3	0.184	4.67	0.017	0.43
3223	4	0.203	5.16	0.019	0.49
3335*	5	0.228	5.79	0.020	0.51
3336*	6	0.246	6.25	0.020	0.64
3337*	8	0.274	6.96	0.025	0.64

*Color code chart F.

CA PROP 65 RoHS Compliant

Communication and Control Cable

600 V Braid Shield, Multiconductor



MIL-DTL-16878/1 (Type B)

Operating Temperature

- -55°C to 105°C

Conductor Color Coding

- Chart G (page 503)

Materials

- Stranded tinned copper conductors
- Irradiated PVC insulation
- Clear polyester wrap
- Tinned copper braid shield, 90% coverage
- White PVC jacket

Availability

1,000 ft (305 m)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
7622	2	0.163	4.14	0.025	0.64
7623	3	0.170	4.32	0.025	0.64
7624	4	0.181	4.60	0.025	0.64

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
7632	2	0.175	4.45	0.025	0.64
7633	3	0.183	4.65	0.025	0.64
7634	4	0.196	4.98	0.025	0.64

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
7661	1	0.130	3.30	0.025	0.64
7662	2	0.191	4.85	0.025	0.64
7663	3	0.200	5.08	0.025	0.64
7664	4	0.215	5.46	0.025	0.64

18 AWG (0.89 mm²)

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

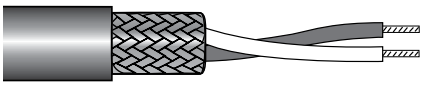
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
7671	1	0.140	3.56	0.025	0.64
7672	2	0.211	5.35	0.025	0.64
7673	3	0.222	5.64	0.025	0.64
7674	4	0.240	6.09	0.025	0.64

CA PROP 65 RoHS Compliant

Communication and Control Cable

Audio Cable

600 V Braid Shield, Multiconductor



Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- 1771: White, blue, black, red or orange jacket
- 1772: White, blue, white, blue, black, brown, slate, or yellow jacket

Materials

- Bare copper conductors
- Polyethylene insulation
- Tinned copper braid shield, 95% coverage
- PVC jacket

Availability

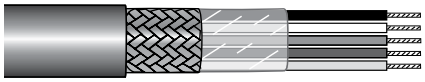
100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Conductors	Wire Size		Stranding		Nominal Diameters		Shield	Jacket Thickness		Insulation Thickness		Capacitance	
		AWG	mm^2	AWG	mm	Inch	mm		Inch	mm	Inch	mm	pF/ft	pF/m
1771	2	23	0.29	60/40	60 x 0.08	0.243	6.17	Braid	0.040	1.01	0.020	0.51	17.9	58.7
1772	4	25	0.20	40/40	40 x 0.08	0.239	6.07	Braid	0.044	1.11	0.014	0.35	18	69.1

CA PROP 65 RoHS Compliant

Communication and Control Cable

600 V Braid Shield, Multiconductor



Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- Chart H (page 504)

Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Clear polyester wrap
- Braided tinned copper shield, 85% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

20 AWG (0.52 mm²)

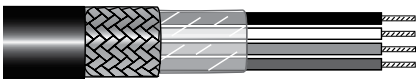
Stranding: 26/34 (26 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1712	2	0.221	5.61	0.030	0.76
1713	3	0.248	6.30	0.035	0.88
1715	4	0.266	6.76	0.035	0.88
1716	5	0.285	7.24	0.035	0.88
1717	6	0.306	7.77	0.035	0.88
1719	8	0.327	8.31	0.035	0.88
1721	10	0.373	9.47	0.035	0.88
1723	12	0.384	9.75	0.035	0.88
1726	15	0.421	10.69	0.035	0.88
1728	20	0.462	11.73	0.035	0.88

CA PROP 65 RoHS Compliant

Communication and Control Cable

600 V Braid Shield, Multiconductor



Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- Chart H (page 504)

Materials

- Stranded tinned copper conductors
- EPDM rubber insulation
- Clear polyester wrap
- Tinned copper braid shield, 85% coverage
- Black polychloroprene jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

18AWG (0.82mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.020 (0.51 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1454	6	0.392	9.96	0.045	1.14

16AWG (1.31 mm²)

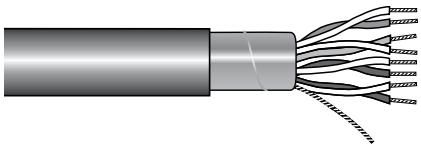
Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.026 (0.65 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1450/16	2	0.327	8.31	0.036	0.91
1451/16	3	0.350	8.89	0.037	0.94

CA PROP 65 RoHS Compliant

Communication and Control Cable

Computer Cable
300 V Foil Shield, Multipair



UL AWM 2464
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG)

Conductor Color Coding

- Chart B (page 499)
- Chart K (page 500)

Materials

- Solid or stranded tinned copper conductors
- Semirigid PVC or polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

SR-PVC Insulation

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code K

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M13190	1	0.159	4.04	0.032	0.81
M13191	2	0.215	5.46	0.032	0.81
M13192	3	0.227	5.77	0.032	0.81
M13193	4	0.246	6.25	0.032	0.81
M13194	5	0.267	6.78	0.032	0.81
M13195	6	0.289	7.34	0.032	0.81
M13196	7	0.289	7.34	0.032	0.81
M13197	8	0.311	7.90	0.032	0.81
M13198	9	0.334	8.48	0.032	0.81
M13199	10	0.360	9.14	0.032	0.81
M4758*	11	0.360	9.14	0.032	0.81
M13200	15	0.402	10.21	0.032	0.81
M3189	19	0.432	10.97	0.032	0.81
M13201	25	0.510	12.95	0.035	0.89

*Color code Chart B (page 528)

SR-PVC Insulation

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code B

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M4770	2	0.235	5.97	0.032	0.81
M4771	3	0.248	6.30	0.032	0.81
M4772	4	0.269	6.83	0.032	0.81
M4773	5	0.293	7.44	0.032	0.81
M4774	6	0.318	8.08	0.032	0.81
M4775	9	0.369	9.37	0.032	0.81

Polypropylene Insulation

22 AWG (0.35 mm²)

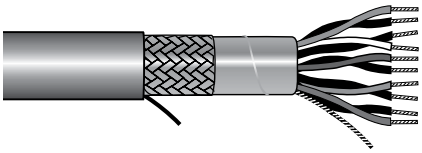
Stranding: Solid
Insulation thickness: 0.008 (0.20 mm)
Color Code K

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3190	38	0.610	15.49	0.045	1.14

Communication and Control Cable

Computer Cable

300 V Foil + Braid Shield, Multipair



UL AWM 1061
UL AWM 2343
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CMG)

Conductor Color Coding

- Chart B (page 499)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 70% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M5650	5	0.351	8.92	0.063	1.60
M5651	7	0.373	9.47	0.063	1.60
M5652	12	0.455	11.56	0.063	1.60
M5653	15	0.486	12.34	0.063	1.60
M5654	19	0.516	13.11	0.063	1.60

Mutual capacitance: 23.1 pF/ft (75.8 pF/m)
Ground capacitance: 42 pF/ft (137.8 pF/m)

Part No. M5650
Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M5660	5	0.377	9.58	0.063	1.60
M5661	7	0.402	10.21	0.063	1.60
M5662	12	0.496	12.60	0.063	1.60
M5665	27	0.666	16.92	0.063	1.60
M5666	37	0.735	18.67	0.063	1.60

Ground capacitance: 49 pF/ft (160.8 pF/m)

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

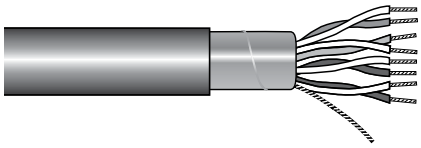
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M5670	5	0.413	10.49	0.063	1.60
M5671	7	0.442	11.23	0.063	1.60

Mutual capacitance: 27 pF/ft (88.6 pF/m)
Ground capacitance: 49 pF/ft (160.8 pF/m)

Part No. M5670
Mutual capacitance: 29 pF/ft (95.1 pF/m)
Ground capacitance: 52 pF/ft (170.6pF/m)

Communication and Control Cable

Low Capacitance Computer Cable
300 V Foil Shield, Multipair



UL AWM 2493
UL CM
CSA CM FT4

Operating Temperature

- -20°C to 75°C (CM)
- -20°C to 60°C (AWM)

Conductor Color Coding

- Chart K (page 500)

Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

24 AWG (0.22 mm²)

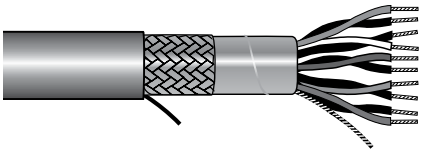
Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.0185 (0.47 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39249	2	0.323	8.20	0.048	1.22
M39250	3	0.340	8.64	0.048	1.22
M39251	4	0.369	9.37	0.048	1.22
M39252	6	0.436	11.07	0.048	1.22

Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 23 pF/ft (75.5 pF/m)

Communication and Control Cable

Computer Cable
300 V Foil + Braid Shield, Multipair



UL AWM 2919 (30 V)
UL CM
CSA CM

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)

Conductor Color Coding

- Chart M (page 501)

Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.0145 (0.37 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M2487	2	0.240	6.10	0.035	0.89
M2488	3	0.252	6.40	0.035	0.89
M2489	4	0.271	6.88	0.035	0.89
M2490	5	0.292	7.42	0.035	0.89
M2492	7	0.314	7.98	0.035	0.89
M2493	8	0.336	8.53	0.035	0.89

Mutual capacitance: 11 pF/ft (36.1 pF/m)
Ground capacitance: 20 pF/ft (65.6 pF/m)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.0125 (0.32 mm)

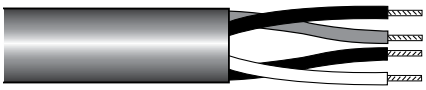
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3420	2	0.257	6.53	0.035	0.89
M3421	3	0.269	6.83	0.035	0.89
M3422	4	0.290	7.37	0.035	0.89
M3423	5	0.314	7.98	0.035	0.89
M3424	6	0.338	8.59	0.035	0.89
M3425	7	0.338	8.59	0.035	0.89
M3426	8	0.363	9.22	0.035	0.89
M3427	10	0.417	10.59	0.035	0.89
M3428*	12.5	0.429	10.90	0.035	0.89

Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 22 pF/ft (72.2 pF/m)

*Discrete conductor is polyethylene insulated.

Communication and Control Cable

300 V Unshielded, Multipair



UL AWM 2464, 2576 VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart A (page 499)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

Availability

1,000 ft (305 m)

22 AWG (0.32 mm²)

Stranding: Solid
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1300C	1	0.157	3.99	0.032	0.81
1302C	2	0.215	5.46	0.032	0.81
1304C	3	0.226	5.74	0.032	0.81
1305C	4	0.246	6.25	0.032	0.81
1306C	5	0.267	6.78	0.032	0.81
1307C	6	0.289	7.34	0.032	0.81
1308/11C	11	0.362	9.19	0.032	0.81
1309C	13	0.382	9.70	0.032	0.81
1310C	16	0.414	10.52	0.032	0.81
1313C	27	0.537	13.64	0.040	1.02

UL AWM 2576

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1317C	2	0.231	5.87	0.032	0.81
1318C	3	0.244	6.20	0.032	0.81
1319C	4	0.265	6.73	0.032	0.81
1320C	5	0.289	7.34	0.032	0.81
1322C	6	0.320	8.13	0.035	0.89
1323C	9	0.371	9.42	0.035	0.89
1324C	11	0.401	10.19	0.035	0.89
1325C	12	0.414	10.52	0.035	0.89
1327C	15	0.460	11.68	0.040	1.02
1327/19C	19	0.493	12.52	0.040	1.02

UL AWM 2464

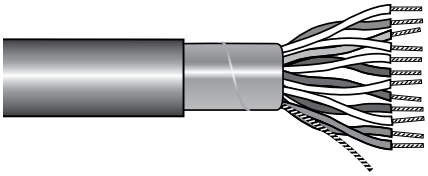
18AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1131C	1	0.225	5.72	0.032	0.81
1132C	2	0.332	8.43	0.035	0.89
1133C	3	0.356	9.04	0.037	0.94
1134C	4	0.396	10.06	0.040	1.02
1135C	5	0.444	11.28	0.045	1.14
1136C	6	0.484	12.29	0.045	1.14
1138C	8	0.534	13.56	0.050	1.27
1139C	9	0.584	14.83	0.055	1.40
1149C	19	0.791	20.09	0.070	1.78

Communication and Control Cable

300 V Overall Foil Shield, Multipair



UL AWM 2464
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart K (page 500)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5471C	1	0.156	3.96	0.032	0.81
5472C	2	0.212	5.38	0.032	0.81
5473C	3	0.224	5.69	0.032	0.81
5474C	4	0.243	6.17	0.032	0.81
5475C	5	0.270	6.86	0.035	0.89
5476C	6	0.292	7.42	0.035	0.89
5477C	7	0.292	7.42	0.035	0.89
5478C	8	0.316	8.03	0.035	0.89
5479C	9	0.343	8.71	0.037	0.83
5480C	10	0.373	9.47	0.040	1.02
5480/15C	15	0.415	10.54	0.040	1.02
5480/19C	19	0.445	11.30	0.040	1.02
5480/25C	25	0.527	13.39	0.045	1.14
5480/50C*	50	0.699	17.75	0.053	1.35

*Color code chart C.

Individually Shielded, 22 AWG (0.35 mm²), 7/30 (7 x .025) Tinned Copper Drain Wire
UL VW-1

20 AWG (0.56 mm²)

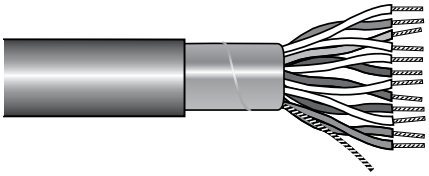
Stranding: 7/28 (7 x 0.33 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6416	2	0.295	7.49	0.041	1.04

Mutual capacitance: 55 pF/ft (180 pF/m)
Ground capacitance: 95 pF/ft (312 pF/m)

Communication and Control Cable

300 V Overall Foil Shield, Multipair



UL AWM 2464 VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart K (page 500)

Materials

- Solid tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

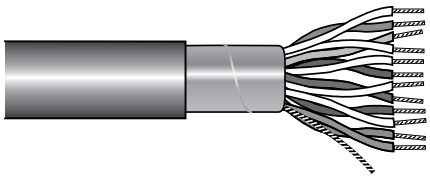
22 AWG (0.32 mm²)

Stranding: Solid
Insulation thickness: 0.013 (0.33 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5902C	2	0.238	6.05	0.032	0.81
5905C	4	0.273	6.93	0.032	0.81
5906C	6	0.329	8.36	0.035	0.89
5909C	9	0.385	9.78	0.037	0.94
5909/15C	15	0.471	11.96	0.040	1.02
5909/19C	19	0.506	12.85	0.040	1.02

Communication and Control Cable

300 V Overall Foil Shield, Multipair



UL PLTC/CM
UL VW-1
UL Sunlight Resistant
CSA CMG FT4

Operating Temperature

- -20°C to 105°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Black and red pairs, numbered

Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward
  Stranded tinned copper drain wire, 24 AWG (0.22 mm^2), 7/32 (7 x 0.20)
- Slate PVC jacket

Availability

500 ft (152 m)
1,000 ft (305 m)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.013 (0.33 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6417	2	0.267	6.78	0.038	0.97
6418	3	0.291	7.39	0.043	1.09
6419	4	0.315	8.00	0.043	1.09
6420	6	0.370	9.40	0.043	1.09
6421	9	0.447	11.35	0.053	1.35
6422	11	0.480	12.19	0.053	1.35
6423	15	0.545	13.84	0.053	1.35
6424	19	0.593	15.06	0.063	1.60
6425	27	0.698	17.73	0.063	1.60
6426	51	0.914	23.22	0.075	1.91

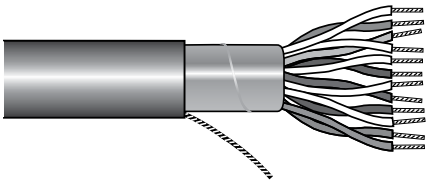
18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6427	2	0.362	9.19	0.043	1.09
6428	3	0.403	10.24	0.053	1.35
6429	4	0.438	11.13	0.053	1.35
6430	6	0.518	13.16	0.053	1.35
6431	9	0.622	15.80	0.063	1.60
6432	11	0.671	17.04	0.063	1.60
6433	15	0.751	19.08	0.063	1.60

Communication and Control Cable

150V and 300 V Overall Foil Shield, Multipair



UL AWM 2576 VW-1 (150 V)
UL AWM 2464 VW-1 (300 V)
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart A (page 499)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

150 V, AWM 2576

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2211C	1	0.168	4.27	0.032	0.81
2212C	2	0.232	5.89	0.032	0.81
2213C	3	0.245	6.22	0.032	0.81
2214C	4	0.266	6.76	0.032	0.81
2215C	5	0.290	7.37	0.032	0.81
2216C	6	0.315	8.00	0.032	0.81
2219C	9	0.372	9.45	0.035	0.89
2219/12C	12	0.415	10.54	0.035	0.89
2219/15C	15	0.451	11.46	0.035	0.89
2219/19C	19	0.494	12.55	0.040	1.02
2219/23C	23	0.545	13.84	0.040	1.02
2219/27C	27	0.589	14.96	0.040	1.02

300 V, AWM 2464

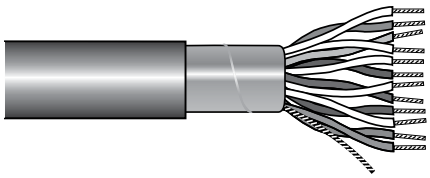
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2241C	1	0.226	5.74	0.032	0.81
2242C	2	0.333	8.46	0.035	0.89
2243C	3	0.357	9.07	0.037	0.94
2244C	4	0.397	10.08	0.040	1.02
2245C	5	0.445	11.30	0.045	1.14
2246C	6	0.485	12.32	0.045	1.14
2248C	8	0.535	13.59	0.050	1.27
2249C	9	0.585	14.86	0.055	1.40
2249/12C	12	0.652	16.56	0.055	1.40
2249/19C	19	0.792	20.12	0.070	1.78

Communication and Control Cable

Low Capacitance, Extended Distance Cable
300 V Overall Foil Shield, Multipair



UL AWM 2919 (30 V) VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart M (page 501)

Materials

- Stranded tinned copper conductors
- High-density polyethylene insulation
- Aluminum/polyester/aluminum foil shield, 25% overlap min.
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm²)

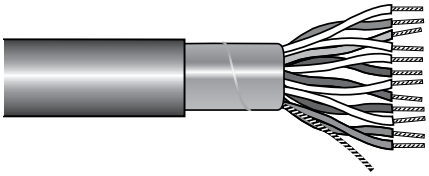
Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6083C	3	0.235	5.97	0.035	0.89
6084C	4	0.254	6.45	0.035	0.89
6087C	7	0.297	7.54	0.035	0.89
6089C	9	0.342	8.69	0.035	0.89
6089/18C	18	0.440	11.18	0.035	0.89

Characteristic impedance: 100 ohms
Mutual capacitance: 15 pF/ft (49.2 pF/m)
Ground capacitance: 27 pF/ft (88.6 pF/m)

Communication and Control Cable

Low Capacitance Data Cable
300 V Overall Foil Shield, Multipair



UL AWM 2919 (30 V) VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart A (page 499)

Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6202C	2	0.258	6.55	0.035	0.89
6203C	3	0.272	6.91	0.035	0.89
6204C	4.5*	0.304	7.72	0.035	0.89
6205C	5	0.323	8.20	0.035	0.89
6206C	6	0.351	8.92	0.035	0.89
6207C	7	0.351	8.92	0.035	0.89
6208C	8	0.379	9.63	0.035	0.89
6209C	9	0.408	10.36	0.035	0.89
6210C	10	0.441	11.20	0.035	0.89
6210/12C	12.5*	0.455	11.56	0.035	0.89
6210/15C	15	0.496	12.60	0.035	0.89
6210/18C	18.5*	0.554	14.07	0.050	1.27
6210/25C	25	0.655	16.64	0.050	1.27

*Single conductor colors: 4.5 = black, 12.5 = red, 18.5 = white

Characteristic impedance: 105 ohms
Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 22 pF/ft (72 pF/m)

22 AWG (0.35 mm²)

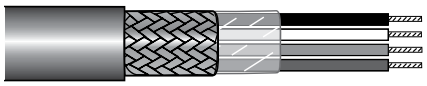
Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6212C	2	0.304	7.72	0.035	0.89
6213C	3	0.322	8.18	0.035	0.89
6216C	6	0.420	10.67	0.035	0.89
6217C	7	0.420	10.67	0.035	0.89
6218C	8	0.456	11.58	0.035	0.89

Characteristic impedance: 105 ohms
Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 22 pF/ft (72 pF/m)

Communication and Control Cable

600 V Braid Shield, Multiconductor



MIL-DTL-16878/17 (Type B/N)

Operating Temperature

- -55°C to 105°C

Conductor Color Coding

- 1 White, 2 Black, 3 Red, 4 Green (unless otherwise noted)

Materials

- Stranded tinned copper conductors
- PVC/nylon insulation
- Clear polyester wrap (multiconductor only)
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

20 AWG (0.61 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3230	1	0.108	2.74	0.010	0.25
3231	2	0.195	4.95	0.019	0.49
3232	3	0.205	5.21	0.019	0.49
3233	4	0.227	5.77	0.021	0.53

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3240	1	0.122	3.10	0.012	0.30
3241	2	0.219	5.56	0.021	0.53
3242	3	0.233	5.92	0.022	0.56
3243	4	0.261	6.63	0.023	0.58

16 AWG (1.23 mm²)

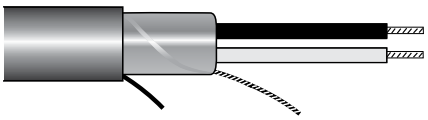
Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3245	1	0.136	0.136	0.016	0.41
3246	2	0.241	0.241	0.023	0.58
3247	3	0.254	0.254	0.023	0.58
3248	4	0.279	0.279	0.025	0.64

CA PROP 65 RoHS Compliant

Communication and Control Cable

600 V Overall Foil Shield, Multipair



UL AWM 2106 VW-1

Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- Black, clear

Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward Stranded tinned copper drain wire one even AWG size smaller than conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2471	1	0.314	7.98	0.035	0.89

Mutual capacitance: 20.5 pF/ft (67.3 pF/m)
Ground capacitance: 37 pF/ft (121.4 pF/m)

14 AWG (1.94 mm²)

Stranding: 19/27 (19 x 0.36 mm)
Insulation thickness: 0.032 (0.81 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2472	1	0.344	8.74	0.035	0.89

Mutual capacitance: 22.7 pF/ft (74.5 pF/m)
Ground capacitance: 41 pF/ft (134.5 pF/m)

12 AWG (3.08 mm²)

Stranding: 19/25 (19 x 0.45 mm)
Insulation thickness: 0.037 (0.94 mm)

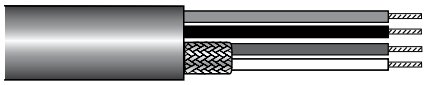
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2473	1	0.412	10.46	0.040	1.02

Mutual capacitance: 23.9 pF/ft (78.4 pF/m)
Ground capacitance: 43 pF/ft (141.1 pF/m)

UL LISTED CA PROP 65 RoHS Compliant

Communication and Control Cable

400 V Foil Shield Pairs and Overall Foil Shield, Multiconductor, Multipair



25 AWG (0.18 mm²)

Stranding: 3/33 TC +4/33 TCW (3 x 0.18 +4 x 0.18 mm)
Insulation thickness: 0.013 (0.33 mm)

Part No.	Conductors	Pairs	Nominal Diameter		Jacket Thickness	
			Inch	mm	Inch	mm
2468	2	1	0.165	4.19	0.020	0.51

Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- Conductors: 1 White, 2 Green
  Pair: Black-Red

Materials

- Stranded tinned and steel-coated copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire, 25 AWG (0.18 mm^2), 7/33 (7 x 0.18 mm)
- Slate PVC jacket

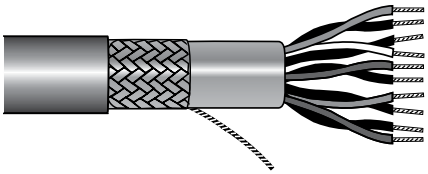
Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

CA PROP 65 RoHS Compliant

Communication and Control Cable

300 V Overall Foil + Braid Shield, Multipair



UL AWM 2464 VW-1
UL CL2
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CL2)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart A (page 499)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

- See tables

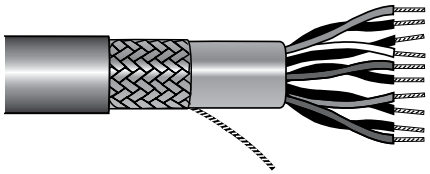
28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness		Availability
		Inch	mm	Inch	mm	Ft
3472C	2	0.211	5.36	0.035	0.89	100
3474C	4	0.235	5.97	0.035	0.89	100
3475C	5	0.258	6.55	0.035	0.89	100, 1000
3476C	6	0.275	6.99	0.035	0.89	100
3477C	7	0.275	6.99	0.035	0.89	100
3480C	10	0.332	8.43	0.035	0.89	100, 500, 1000
3480/12C	12.5	0.342	8.69	0.035	0.89	100, 500, 1000
3480/18C	18	0.389	9.88	0.035	0.89	100, 500, 1000
3480/25C	25	0.446	11.33	0.035	0.89	100, 500, 1000

Communication and Control Cable

300 V Overall Foil + Braid Shield, Multipair



UL AWM 2464 VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- See tables

Materials

- Stranded tinned and steel-coated copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward Stranded tinned copper drain wire, 25 AWG (0.18 mm^2), 7/33 (7 x 0.18 mm)
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
6362	2	0.234	5.94	0.032	0.81	M
6363	3	0.246	6.25	0.032	0.81	M
6364	4	0.265	6.73	0.032	0.81	M
6365	5	0.286	7.26	0.032	0.81	M
6366	6	0.308	7.82	0.032	0.81	M
6367	7	0.308	7.82	0.032	0.81	M
6368	10	0.379	9.63	0.032	0.81	M
6369	12.5	0.389	9.62	0.032	0.81	M
6370	15	0.421	10.69	0.032	0.81	M
6371	18	0.451	11.46	0.032	0.81	M
6372	25	0.523	13.28	0.032	0.81	M

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25mm)
Insulation thickness: 0.010 (0.25 mm)

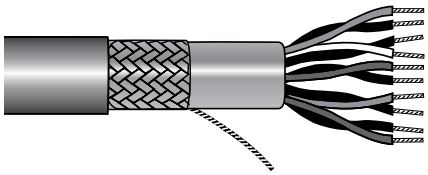
Part No.	Pairs	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
6373	2	0.254	6.45	0.032	0.81	A
6374	3	0.267	6.78	0.032	0.81	A
6375	4	0.288	7.32	0.032	0.81	A
6376	5	0.312	7.92	0.032	0.81	Chart Below
6377	6	0.337	8.56	0.032	0.81	A
6378	7	0.337	8.56	0.032	0.81	A
6379	8	0.363	9.22	0.032	0.81	Chart Below
6380	10	0.418	10.62	0.032	0.81	A
6381	12.5	0.430	10.92	0.032	0.81	A
6382	15	0.467	11.86	0.032	0.81	A
6383	18	0.500	12.70	0.032	0.81	A
6384	25	0.595	15.11	0.032	0.81	A

Color Code Chart (Part No. 6376 and 6379)

Pair No.	Color	Pair No.	Color
1	Black, Red	5	Black, Yellow
2	Black, White	6	Black, Brown
3	Black, Green	7	Black, Orange
4	Black, Blue	8	Red, White

Communication and Control Cable

Low Capacitance Data Cable
300 V Overall Foil + Braid Shield, Multipair



UL AWM 2960 VW-1
UL CL2
CSA CMH FT1

Operating Temperature

- -20°C to 75°C (CL2)
- -20°C to 60°C (AWM, CMH)

Conductor Color Coding

- Chart K (page 500)

Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

28 AWG (0.089 mm²)

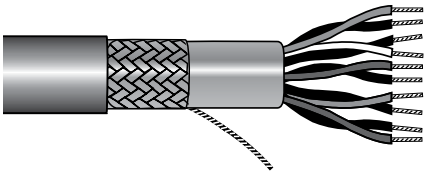
Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6390	2	0.211	5.36	0.035	0.89
6391	3	0.220	5.59	0.035	0.89
6392	4	0.235	5.97	0.035	0.89
6393	5	0.252	6.40	0.035	0.89
6394	7	0.269	6.83	0.035	0.89
6395	9	0.305	7.75	0.035	0.89
6396	12	0.335	8.51	0.035	0.89
6397	13	0.341	8.66	0.035	0.89
6398	18	0.383	9.73	0.035	0.89
6399	25	0.440	11.18	0.035	0.89
6400	31	0.470	11.94	0.035	0.89

Characteristic impedance: 100 ohms
Mutual capacitance: 15.5 pF/ft (50.9 pF/m)
Ground capacitance: 27.5 pF/ft (90.2 pF/m)

Communication and Control Cable

Low Capacitance Data Cable
300 V Overall Foil + Braid Shield, Multipair



UL AWM 2919 VW-1
UL CM
CSA CM FT1

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)

Conductor Color Coding

- Chart M (page 501)

Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Foil + braid shielding
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% or 90% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)
65% braid coverage

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6401	2	0.280	7.11	0.035	0.89
6402	3	0.294	7.47	0.035	0.89
6403	4	0.318	8.08	0.035	0.89
6404	5	0.345	8.76	0.035	0.89
6405	6	0.373	9.47	0.035	0.89
6406	7	0.373	9.47	0.035	0.89
6407	9	0.430	10.92	0.035	0.89
6408	10	0.463	11.76	0.035	0.89
6409	12	0.478	12.14	0.035	0.89

Characteristic impedance: 100 ohms
Mutual capacitance: 15.5 pF/ft (50.9 pF/m)
Ground capacitance: 27.5 pF/ft (90.2 pF/m)

24 AWG (0.23 mm²)

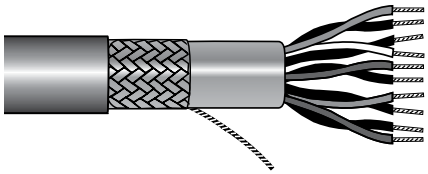
Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)
90% braid coverage

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6412	1	0.208	5.28	0.035	0.89
6413	2	0.280	7.11	0.035	0.89
6414	3	0.294	7.47	0.035	0.89
6415	4	0.318	8.08	0.035	0.89

Characteristic impedance: 120 ohms
Mutual capacitance: 12.8 pF/ft (42 pF/m)
Ground capacitance: 23 pF/ft (75.5 pF/m)

Communication and Control Cable

Low Capacitance Data Cable
300 V Overall Foil + Braid Shield, Multipair



UL AWM 2919 (30 V) VW-1
UL CL2
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CL2)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart M (page 501)

Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Foil + braid shielding
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

28 AWG (0.089 mm²)

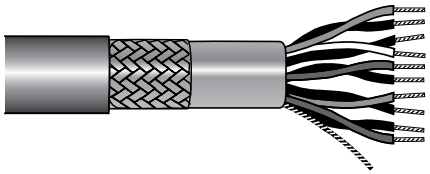
Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.013 (0.33 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3492C	2	0.230	5.84	0.035	0.89
3493C	3	0.241	6.12	0.035	0.89
3494C	4	0.265	6.73	0.035	0.89
3495C	5	0.284	7.21	0.035	0.89
3496C	6	0.305	7.75	0.035	0.89
3498C	8	0.326	8.28	0.035	0.89
3500/12C	12.5	0.381	9.67	0.035	0.89
3500/18C	18	0.439	11.15	0.035	0.89

Mutual capacitance: 12 pF/ft (39.3 pF/m)
Ground capacitance: 20 pF/ft (65.5 pF/m)

Communication and Control Cable

Low Capacitance Data Cable
300 V Overall Foil + Braid Shield, Multipair



UL AWM 2919 (30 V) VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart M (page 501)

Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Foil + braid shielding
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.23 mm²)

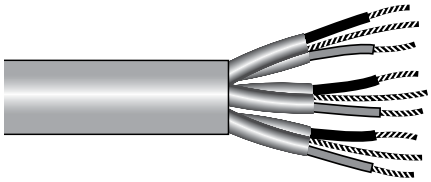
Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6222C	2	0.280	7.11	0.035	0.89
6223C	3	0.294	7.47	0.035	0.89
6224C	4	0.318	8.08	0.035	0.89
6225C	5	0.345	8.76	0.035	0.89
6226C	6	0.373	9.47	0.035	0.89
6227C	7	0.373	9.47	0.035	0.89
6228C	8	0.401	10.19	0.035	0.89
6230C	10	0.463	11.76	0.035	0.89
6230/12C	12.5	0.477	12.12	0.035	0.89
6230/15C	15	0.518	13.16	0.035	0.89

Characteristic impedance: 105 ohms
Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 22 pF/ft (72 pF/m)

Communication and Control Cable

300 V Individual Foil Shield, Multipair



UL AWM 2919 (30 V) VW-1
UL CL2
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart A (page 499)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Individual aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire
- PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
22 AWG (0.35 mm²) drain wire

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6052C	2	0.316	8.03	0.043	1.09
6053C	3	0.334	8.48	0.043	1.09
6054C	4	0.364	9.25	0.043	1.09
6056C	6	0.451	11.46	0.053	1.35
6059C	9	0.522	13.26	0.053	1.35
6059/11C	11	0.581	14.76	0.053	1.35
6059/15C	15	0.644	16.36	0.053	1.35
6059/19C	19	0.698	17.73	0.063	1.60

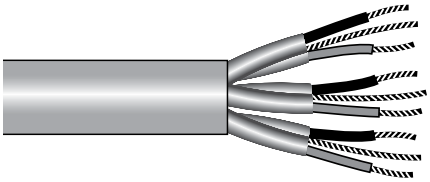
18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.51 mm²) drain wire

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6062C	2	0.376	9.55	0.043	1.09
6063C	3	0.418	10.62	0.053	1.35
6064C	4	0.456	11.58	0.053	1.35
6066C	6	0.541	13.74	0.053	1.35
6069C	9	0.650	16.51	0.063	1.60
6069/15C	15	0.804	20.42	0.063	1.60

Communication and Control Cable

300 V Individual Foil Shield, Multipair



UL 2493 VW-1
UL CM, CMG
CSA CMG FT4

Operating Temperature

- -20°C to 75°C (CM)
- -20°C to 60°C (AWM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart A (page 499)

Materials

- Solid or stranded tinned copper conductors
- Polypropylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Solid or stranded tinned copper drain wire, 22 AWG (0.35 mm^2), 7/30 (7 x 0.25 mm)
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

22 AWG (0.32 mm²)

Stranding: Solid
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness		UL
		Inch	mm	Inch	mm	
6000C	3	0.278	7.06	0.047	1.19	CM
6008C	15	0.492	12.50	0.047	1.19	CM

Characteristic impedance: 62 ohms
Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147 pF/m)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness		UL
		Inch	mm	Inch	mm	
6010C	3	0.298	7.57	0.048	1.22	CMG
6012C	6	0.378	9.60	0.048	1.22	CMG
6014C	9	0.436	11.07	0.048	1.22	CMG
6016C	11	0.483	12.27	0.048	1.22	CMG
6017C	12	0.483	12.27	0.048	1.22	CMG
6018C	15	0.565	14.35	0.063	1.60	CM
6019C	17	0.593	15.06	0.063	1.60	CM
6020C	19	0.593	15.06	0.063	1.60	CM
6022C	27	0.698	17.73	0.063	1.60	CM

Characteristic impedance: 55 ohms
Mutual capacitance: 28 pF/ft (91.9 pF/m)
Ground capacitance: 50 pF/ft (164 pF/m)

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.33 mm)
Insulation thickness: 0.013 (0.33 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness		UL
		Inch	mm	Inch	mm	
6032C	2	0.331	8.41	0.047	1.19	CMG
6033C	3	0.349	8.86	0.047	1.19	CMG
6036C	6	0.450	11.43	0.047	1.19	CMG
6039C	9	0.555	14.10	0.063	1.60	CMG
6042C	12	0.615	15.62	0.063	1.60	CMG

Characteristic impedance: 61 ohms
Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

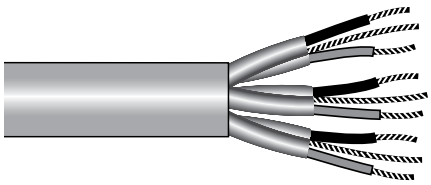
Part No.	Pairs	Nominal Diameter		Jacket Thickness		UL
		Inch	mm	Inch	mm	
6023C	3	0.406	10.31	0.047	1.19	CM
6024C	6	0.561	14.25	0.063	1.60	CM
6025C	9	0.650	16.51	0.063	1.60	CM

Characteristic impedance: 59 ohms
Mutual capacitance: 26 pF/ft 85.3 pF/m)
Ground capacitance: 47 pF/ft (154.2 pF/m)

Communication and Control Cable

Direct Burial

300 V Individual Foil Shield, Multipair



20 AWG (0.51 mm²)

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.008 (0.20 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6315	6	0.385	9.78	0.045	1.14

Characteristic impedance: 48 ohms
Mutual capacitance: 31 pF/ft (101.7 pF/m)
Ground capacitance: 56 pF/ft (183.7 pF/m)

Operating Temperature

- -20°C to 80°C

Conductor Color Coding

- Chart A (page 499)

Materials

- Stranded tinned copper conductors
- Polypropylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire, 22 AWG (0.35 mm^2), 7/30 (7 x 0.25 mm)
- Black polyethylene jacket

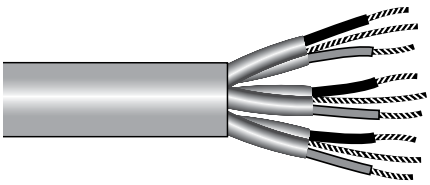
Availability

500 ft (152 m)
1,000 ft (305 m)

CA PROP 65 RoHS Compliant

Communication and Control Cable

300 V Individual Foil Shield, Multipair



UL AWM 2919 (30 V) VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 80°C (AWM)
- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

- Chart A (page 499)

Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm²)

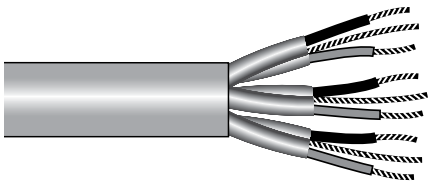
Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6385	3	0.247	6.27	0.035	0.89
6386	6	0.317	8.05	0.035	0.89
6387	9	0.368	9.35	0.035	0.89
6388	12	0.411	10.44	0.035	0.89

Characteristic impedance: 60 ohms
Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 47 pF/ft (154.2 pF/m)

Communication and Control Cable

300 V Individual Foil Shield, Multipair



UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 75°C (CM)
- -20°C to 60°C (CMG)

Conductor Color Coding

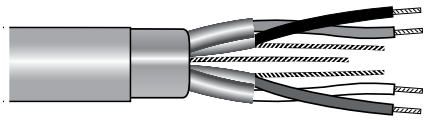
- See tables

Materials

- Stranded tinned copper conductors
- Polypropylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min. Stranded tinned copper drain wire (see tables for sizes)
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)



Individually Shielded Pairs

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
24 AWG (0.22 mm²) drain wire
Foil facing outward

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2466C	2	0.170	4.32	0.020	0.51

Characteristic impedance: 60 ohms
Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

Color code: 1 Red-Black, 2 Green-White.

Individually Shielded Pairs, UL CM

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.008 (0.20 mm)
24 AWG (0.22 mm²) drain wire
Foil facing outward

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2463C	4	0.230	5.84	0.020	0.51

Characteristic impedance: 53 ohms
Mutual capacitance: 29 pF/ft (95.1 pF/m)
Ground capacitance: 52 pF/ft (170.6 pF/m)

Color code: 1 Red-Black, 2 Green-White, 3 White/Red-White/Black, 4 White/Green-White/Yellow.

Individually Shielded Pairs

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.015 (0.38 mm)
22 AWG (0.35 mm²) drain wire
Foil facing inward

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2467C	4	0.340	8.64	0.030	0.76

Characteristic impedance: 66 ohms
Mutual capacitance: 23 pF/ft (75.5 pF/m)
Ground capacitance: 41 pF/ft (134.5 pF/m)

Color code: 1 Red-Black, 2 Green-White, 3 White/Red-White/Black, 4 White/Green-White/Yellow.

Individually Shielded Pairs +Overall Shield, AWM 2717

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.009 (0.23 mm)
22 AWG (0.35 mm²) drain wire
Foil facing inward

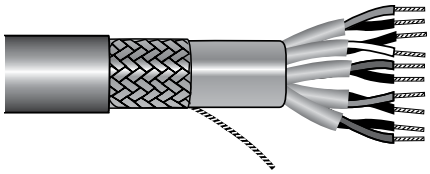
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1243/2C	2	0.245	6.22	0.030	0.76

Characteristic impedance: 57 ohms
Mutual capacitance: 27 pF/ft (88.6 pF/m)
Ground capacitance: 49 pF/ft (160.7 pF/m)

Color code: 1 Red-Black, 2 Green-White.

Communication and Control Cable

Low Capacitance Data Cable
300 V Individual and Overall Foil Shield, Multipair



UL AWM 2493 VW-1
UL CM
CSA CM FT1

Operating Temperature

- -20°C to 75°C (CM)
- -20°C to 60°C (AWM, CMG)

Conductor Color Coding

- Chart A (page 499)
- (See table at right for Part No. 6319 and 6322)

Materials

- Stranded tinned copper conductors
- Foam polyethylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire, 24 AWG (0.23 mm^2), 7/32 (7 x 0.20 mm)
- Overall foil + braid shielding
  Aluminum/polyester foil, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm^2)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.019 (0.49 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
6316	2	0.349	8.86	0.048	1.22
6317	3	0.353	8.97	0.048	1.22
6318	4	0.397	10.08	0.048	1.22
6319*	5	0.430	10.92	0.048	1.22
6320	6	0.464	11.79	0.048	1.22
6321	7	0.464	11.79	0.048	1.22
6322*	8	0.499	12.67	0.048	1.22
6323	10	0.606	15.39	0.063	1.60
6324	15	0.687	17.45	0.063	1.60
6325	18	0.721	18.31	0.063	1.60
6326	25	0.901	22.89	0.085	2.16

Characteristic impedance: 100 ohms
Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 22 pF/ft (72.2 pF/m)

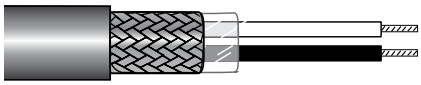
***Color Code**

Pair No.	Color	Pair No.	Color
1	Black, Red	5	Black, Yellow
2	Black, White	6	Black, Brown
3	Black, Green	7	Black, Orange
4	Black, Blue	8	Red, White

Communication and Control Cable

Microphone Cable

600 - 4000 V Braid or Spiral Shield, Multiconductor



Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- 1-White, 2-Black

Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Clear polyester wrap (multiconductor only)
- Braided tinned copper or spiral wrapped tinned copper shield, 90% coverage (85% for part no. 1712)
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

1-Conductor Cable for High-Impedance Microphones

Part No.	Voltage Rating	Wire Size		Stranding		Nominal Diameter		Shield	Jacket Thickness		Insulation Thickness		Capacitance	
		AWG	mm²	AWG	mm	Inch	mm		Inch	mm	Inch	mm	pF/ft	pF/m
1706*	4000V	20	0.52	26/34	26 x 0.16	0.182	4.62	Braid	0.030	0.76	0.031	0.79	38	125
1703	3500V	24	0.20	10/34	10 x 0.16	0.146	3.71	Braid	0.030	0.76	0.020	0.50	36	118
1702**	1000V	26	0.14	7/34	7 x 0.16	0.101	2.57	Spiral	0.020	0.51	0.016	0.41	35	115
1705	1000V	24	0.20	10/34	10 x 0.16	0.106	2.69	Spiral	0.020	0.51	0.016	0.41	41	135

*UL AWM 1150, 300 V.
**1702 has 3 strands of tinned copper and 4 strands of tinned Copperweld.

2-Conductor Cable for Low-Impedance Microphones

Part No.	Voltage Rating	Wire Size		Stranding		Nominal Diameter		Shield	Jacket Thickness		Insulation Thickness		Capacitance*	
		AWG	mm²	AWG	mm	Inch	mm		Inch	mm	Inch	mm	pF/ft	pF/m
1709	1000V	24	0.20	10/34	10 x 0.16	0.185	4.70	Braid	0.030	0.76	0.016	0.41	32	105
1710	1000V	22	0.38	19/34	19 x 0.16	0.239	6.07	Braid	0.025	0.64	0.025	0.63	30	98

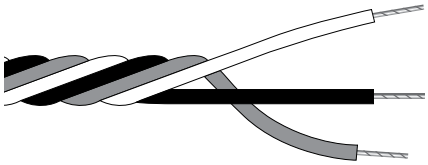
*Capacitance between one conductor and remaining conductors connected to shield.

CA PROP 65 RoHS Compliant

Communication and Control Cable

Hi-Fi and Stereo Cable

200 V Unshielded and Shielded, Multiconductor



Operating Temperature

- -20°C to 80°C

Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green

Materials

- Stranded tinned copper conductors
- PVC insulation
- Conductors twisted in an extra tight lay

Availability

100 ft (30.5 m)
1,000 ft (305 m)

32 AWG (0.03 mm²)

Stranding: 7/40 (7 x 0.08 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter	
		Inch	mm
1101	3	0.063	1.60
1102	4	0.072	1.83

30 AWG (0.05 mm²)

Stranding: 7/38 (7 x 0.10 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter	
		Inch	mm
1115	2	0.064	1.63
1116	3	0.070	1.78

Miniature Shielded Cable

Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green

Materials

- Stranded tinned copper conductors
- Color-coded PVC insulation
- Tinned copper braid shield, 80% coverage
- Clear PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1120	2	0.115	2.92	0.010	0.25
1121	3	0.120	3.05	0.010	0.25
1122	4	0.130	3.30	0.010	0.25

CA PROP 65 RoHS Compliant

Communication and Control Cable

Silver Satin Oval Telephone Cable
150 V Unshielded, Multiconductor



Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- See table

Materials

- Stranded bare copper conductors
- Polypropylene insulation
- Silver PVC jacket

Availability

328 ft (100 m), box
1,000 ft (305 m), box

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.009 (0.23 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1604	4	0.090 x 0.190	2.28 x 4.83	0.020	0.51
1606	6	0.090 x 0.270	2.28 x 6.85	0.024	0.61
1608	8	0.090 x 0.350	2.28 x 8.89	0.024	0.61

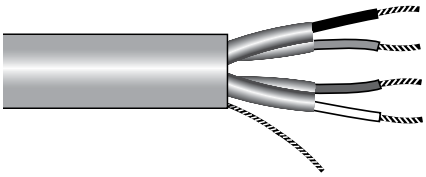
Conductor Color Coding

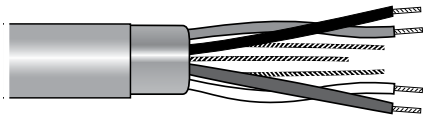
Conductor No.	1604	1606	1608
1	Black	White	Slate
2	Red	Black	Orange
3	Green	Red	Black
4	Yellow	Green	Red
5		Yellow	Green
6		Blue	Yellow
7			Blue
8			Brown

CA PROP 65 RoHS Compliant

Communication and Control Cable

300 V Individual or Overall Foil Shield, Multipair





UL AWM 2490, 2493, 2668
VW-1
UL CM
CSA CMG FT4

Operating Temperature

- -20°C to 75°C (CM)
- -20°C to 60 (AWM, CMG)

Conductor Color Coding

- Chart K (page 500)

Materials

- Solid or stranded tinned copper conductors
- Foam polypropylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire, 24 AWG (0.23 mm^2), 7/32 (7 x 0.20 mm)
- 6072C Black PVC jacket
- 6073C Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Individually Foil Shielded Pairs

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.023 (0.58)

Part No.	Pairs	Nominal Diameter		Jacket Thickness		AWM
		Inch	mm	Inch	mm	
6073C	3	0.374	9.50	0.048	1.22	2493

Characteristic impedance: 115 ohms
Mutual capacitance: 12 pF/ft (41 pF/m)

Overall Foil Shield

22 AWG (0.32 mm²)

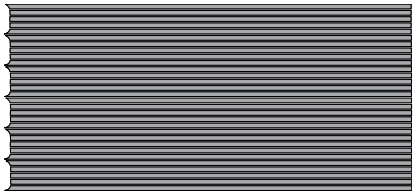
Stranding: Solid
Insulation thickness: 0.023 (0.58)

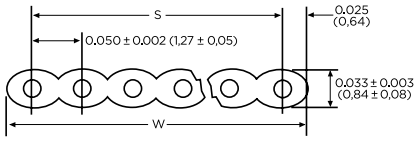
Part No.	Pairs	Nominal Diameter		Jacket Thickness		AWM
		Inch	mm	Inch	mm	
6072C	2	0.42	9.50	0.035	0.89	2668

Characteristic impedance: 150 ohms
Mutual capacitance: 8.8 pF/ft (28.9 pF/m)

Communication and Control Cable

300 V Unshielded, Flat Cable, 0.050 (1.27 mm) Centerline





UL AWM 2651, 20932 VW-1

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- AWM 2651: slate cable, with red polarity stripe on leading edge
- AWM 20932: color-coded cable: brown, red, orange, yellow, green, blue, violet, slate, white, black . . . repeats

Materials

- Stranded tinned copper conductors
- Extruded PVC insulation (slate cable)
- Thermally bonded PVC with clear PVC covering (color-coded cable)

Availability

100 ft (30.5 m)

May contain multiple lengths

28 AWG (0.09 mm²)

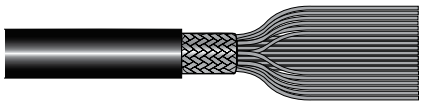
Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.		Conductors	Width (W)		Span (S)	
Slate (AWM 2651)	Color Coded (AWM 20932)		Inch	mm	Inch	mm
3580/9	**3583/9**	9	0.45	11.43	0.40	10.16
3580/10	**3583/10**	10	0.50	12.70	0.45	11.43
3580/14	**3583/14**	14	0.70	17.78	0.65	16.51
3580/15	**3583/15**	15	0.75	19.05	0.70	17.78
3580/16	**3583/16**	16	0.80	20.32	0.75	19.05
3580/20	**3583/20**	20	1.00	25.40	0.95	24.13
3580/24	**3583/24**	24	1.20	30.48	1.15	29.21
3580/25	**3583/25**	25	1.25	31.75	1.20	30.48
3580/26	**3583/26**	26	1.30	33.02	1.25	31.75
3580/34	**3583/34**	34	1.70	43.18	1.65	41.91
3580/37	**3583/37**	37	1.85	46.99	1.80	45.72
3580/40	**3583/40**	40	2.00	50.80	1.95	49.53
3580/50	**3583/50**	50	2.50	63.50	2.45	62.23
3580/60	**3583/60**	60	3.00	76.20	2.95	74.93
3580/64	**3583/64**	64	3.20	81.28	3.15	80.01

RoHS Compliant

Communication and Control Cable

300 V Unshielded, Flat Cable, 0.050 (1.27 mm) Centerline



UL AWM 20381 (300 V)
UL CL2 (150 V)

Operating Temperature

- -20°C to 105°C

Materials

- Stranded tinned copper conductors
- PVC insulation
- Foil + braid shield
  Aluminum/polyester
  Tinned copper braid (90% coverage)
- Black PVC jacket, 0.030
  (0.08 mm) thick

Configuration

- Flat cable termination area is 0.75
  (19 mm) long and occurs every 1.5
  (38 mm)

Electrical Characteristics

- Capacitance: 24 pF/ft (78.7 pF/m)
  nom at 1 MHz
- Impedance: 70 ohms

Availability

100 ft (30.5 m)
May contain multiple lengths

28 AWG (0.09 mm²)

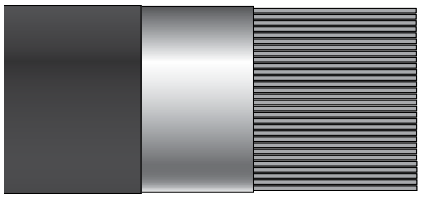
Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

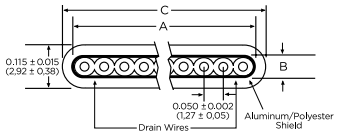
Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3585/25	25	0.34	8.64	1.20	30.48
3585/26	26	0.35	8.89	1.65	41.91
3585/40	40	0.40	10.20	1.95	49.53
3585/50	50	0.46	11.70	2.45	62.23

RoHS Compliant

Communication and Control Cable

150 V Foil Shield, Flat Cable, 0.050 (1.27 mm) Centerline





28 AWG (0.09 mm²)					
Stranding: 7/36 (7 x 0.13 mm) Insulation thickness: 0.010 (0.25 mm)					
Part No.	**Conductor**	**Nom. Core Width (A)**		**Nom. Jacket Width (C)**	
		Inch	mm	Inch	mm
3590/10	10	0.50	12.70	0.57	14.48
3590/14	14	0.70	17.78	0.77	19.56

UL AWM 2912
UL Type CL2

Operating Temperature

- -20°C to 105°C

Materials

- Stranded tinned copper conductors
- Extruded slate PVC insulation with red polarity stripe
- Aluminum/polyester/aluminum foil shield
  Two 28 AWG (0.09 mm^2) stranded tinned copper drain wires
- Slate PVC jacket, 0.030 (0.08 mm) thick

Electrical Characteristics

- Capacitance:
  20 pF/ft (65.6 pF/m) nom. at 1 MHz
- Propagation delay:
  1.45 ns/ft (4.8 ns/m) at 0.18 ns risetime
- Impedance: 70 ohms
- Near-end crosstalk: 5.5%
- Far-end crosstalk: 1.6%
- Crosstalk measured on adjacent lines, 3.5 ns risetime

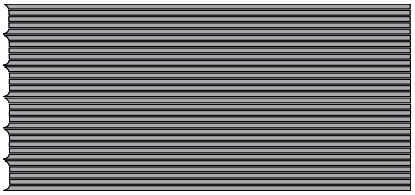
Availability

100 ft (30.5 m)
May contain multiple lengths

UL LISTED RoHS Compliant

Communication and Control Cable

150 V Unshielded, Flat Cable, 0.025 (0.64 mm) Centerline





30 AWG (0.05 mm²)

Stranding: Solid
Insulation thickness: 0.013 (0.33 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
3582/26	26	0.65	16.51	0.625	15.88
3582/40	40	1.00	25.40	0.975	24.76
3582/50	50	1.25	31.75	1.225	31.15
3582/60	60	1.50	38.10	1.475	37.46

UL AWM 2678 VW-1

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- Slate, with red polarity stripe on leading edge

Materials

- Solid bare copper conductors
- PVC insulation

Electrical Characteristics

- Capacitance:
  24.9 pF/ft (82 pF/m) nom.
  (G-S-G) at 1 kHz
  14.3 pF/ft (47 pF/m) nom.
  (G-S) at 1 kHz
- Propagation delay:
  1.52 ns/ft (4.9 ns/m)
- Impedance:
  78 ohms (G-S-G single-ended configuration)
  131 ohms nom. (G-S differential configuration)
- Skew: 0.036 ns/ft
  (0.12 ns/m) max

Availability

100 ft (30.5 m)
May contain multiple lengths

RoHS Compliant

LSZH Cable

300 V Unshielded, Multiconductor



UL CMG
CSA FT-4

Operating Temperature

- -20°C to 75°C

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- LSZH insulation
- Slate LSZH jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1172L	2	0.150	3.81	0.025	0.64
1173L	3	0.158	4.01	0.025	0.64
1174L	4	0.171	4.34	0.025	0.64
1175L	5	0.186	4.72	0.025	0.64
1176L	6	0.201	5.11	0.025	0.64
1177L	7	0.201	5.11	0.025	0.64
1178L	8	0.216	5.48	0.025	0.64
1179L	9	0.232	5.89	0.025	0.64
1180L	10	0.250	6.35	0.025	0.64

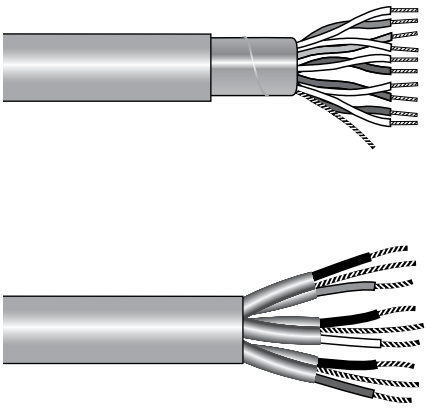
20 AWG (0.56 mm²)

Stranding: 7/28 (0.32 mm)
Insulation thickness: 0.016 (0.40 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
1895L	2	0.190	4.83	0.025	0.64
1896L	3	0.201	5.11	0.025	0.64
1896/4L	4	0.219	5.56	0.025	0.64
1896/5L	5	0.240	6.10	0.025	0.64
1896/6L	6	0.261	6.63	0.025	0.64

LSZH Cable

300 V Foil Shield, Multipair



24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pair	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5471L	1	0.156	3.86	0.030	0.76
5472L	2	0.208	5.28	0.030	0.76
5473L	3	0.220	5.59	0.030	0.76
5474L	4	0.229	5.82	0.025	0.64
5476L	6	0.272	6.91	0.025	0.64
5477L	7	0.272	6.91	0.025	0.64
5478L	8	0.294	7.47	0.025	0.64
5479L	9	0.317	8.05	0.025	0.64
5480L	10	0.343	8.71	0.025	0.64

UL CMG
CSA FT-4

Operating Temperature

- -20°C to 75°C

Conductor Color Coding

- Chart K (page 500)

Materials

- Stranded tinned copper conductors
- LSZH insulation (Polypropylene insulation for individually foil shielded pairs)
- Aluminum/polyester shielding, with 25% overlap min. Foil facing inward Tinned copper drain wire sized the same as the conductors
- Slate LSZH jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

22 AWG (0.35 mm²)

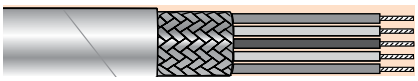
Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pair	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2466L*†	2	0.190	4.83	0.030	0.76
6010L	3	0.254	6.45	0.025	0.64
2463L*††	4	0.240	6.10	0.025	0.64
6012L	6	0.335	8.57	0.025	0.64
6014L	9	0.394	10.01	0.025	0.64
6017L	12	0.453	11.51	0.030	0.76

*Conductor color coding: 1 Red-Black, 2 Green-White, White/Red-White/Black, 4 White/Green-White/Yellow.
†0.009 (0.23) insulation thickness.
††0.008 (0.20) insulation thickness.

High/Low Temperature Cable

600 V Braid Shield, Multiconductor



NEMA WC27500 Type RC
SAE AS22759/11

Operating Temperature

- -55°C to 200°C

Conductor Color Coding

- Per SAE AS22759/11

Materials

- Stranded silver-plated conductors
- PTFE insulation
- Silver-plated braid shield, 85% coverage
- Natural PTFE jacket

Availability

100 ft (30.5 m)
Bulk, cut to length
Spools may contain multiple lengths
(Minimums may apply)

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.009 (0.24 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
24RC2S06	2	0.124	3.15	0.010	0.25
24RC3S06	3	0.130	3.30	0.010	0.25
24RC4S06	4	0.142	3.61	0.010	0.25

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.009 (0.24 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
22RC2S06	2	0.136	3.45	0.010	0.25
22RC3S06	3	0.143	3.63	0.010	0.25
22RC4S06	4	0.156	3.96	0.010	0.25

20 AWG (0.61 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
20RC2S06	2	0.154	3.91	0.010	0.25
20RC3S06	3	0.163	4.14	0.010	0.25
20RC4S06	4	0.184	4.67	0.010	0.25

18 AWG (0.96 mm²)

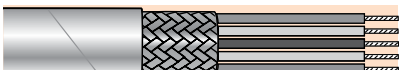
Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
18RC2S06	2	0.180	4.57	0.010	0.25

CA PROP 65 RoHS Compliant

High/Low Temperature Cable

600 V Braid Shield, Multiconductor



NEMA WC27500 Type TE
SAE AS22759/16

Operating Temperature

- -55°C to 150°C

Conductor Color Coding

- Per SAE AS22759/16

Materials

- Stranded tinned copper conductors
- ETFE insulation
- Tinned copper braid shield, 85% coverage
- Natural ETFE jacket

Availability

100 ft (30.5 m)
Bulk, cut to length
Spools may contain multiple lengths
(Minimums may apply)

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
275002402	2	0.132	3.35	0.010	0.25

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
275002201	1	0.088	2.24	0.010	0.25
275002202	2	0.146	3.71	0.010	0.25
275002203	3	0.154	3.91	0.010	0.25
275002204	4	0.168	4.27	0.010	0.25

20 AWG (0.61 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.011 (0.28 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
275002001	1	0.096	2.44	0.010	0.25
275002002	2	0.162	4.11	0.010	0.25
275002003	3	0.171	4.34	0.010	0.25
275002004	4	0.187	4.75	0.010	0.25

18 AWG (0.96 mm²)

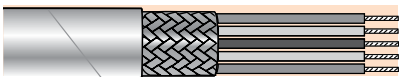
Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
275001801	1	0.107	2.72	0.010	0.25
275001802	2	0.182	4.62	0.010	0.25

CA PROP 65 RoHS Compliant

High/Low Temperature Cable

600 V Braid Shield, Multiconductor



MIL-W-16878/4 (Type E)
NEMA HP3

Operating Temperature

- -55°C to 200°C

Conductor Color Coding

- Chart P (page 506)

Materials

- Silver-plated copper conductors
- PTFE insulation
- Silver-plated copper braid shield, 85% coverage
- White PTFE jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
Spools may contain multiple lengths
(Minimums may apply)

NEMA HP3-EXBEE

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M1201	1	0.081	2.06	0.010	0.25
M1202	2	0.124	3.15	0.012	0.30
M1203	3	0.130	3.30	0.012	0.30
M1204	4	0.140	3.56	0.012	0.30

NEMA HP3-EXBEE

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M1211	1	0.087	2.21	0.010	0.25
M1212	2	0.136	3.45	0.012	0.30
M1213	3	0.143	3.63	0.012	0.30
M1214	4	0.155	3.94	0.012	0.30

NEMA HP3-EXBFE

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.009 (0.23 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M1221	1	0.092	2.34	0.010	0.25
M1222	2	0.146	3.71	0.012	0.30
M1223	3	0.154	3.91	0.012	0.30
M1224	4	0.167	4.24	0.012	0.30

NEMA HP3-EXBGE

20 AWG (0.61 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.009 (0.23 mm)

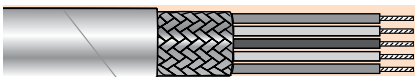
Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M1231	1	0.100	2.54	0.010	0.25
M1232	2	0.158	4.01	0.012	0.30
M1233*	3	0.171	4.34	0.010	0.25
M1234	4	0.186	4.72	0.012	0.30

*NEMA HP3-EXBJE.

CA PROP 65 RoHS Compliant

High/Low Temperature Cable

600 V Braid Shield, Multiconductor, PTFE, PTFE



MIL-W-16878/14 (Type E)
NEMA HP3

Operating Temperature

- -55°C to 200°C

Conductor Color Coding

- Chart P (page 506)

Materials

- Silver-plated copper conductors
- PTFE insulation
- Silver-plated copper braid shield, 85% coverage
- White PTFE jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
Bulk, cut to length
Spools may contain multiple lengths
(Minimums may apply)

NEMA HP3-EXBHE

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M1241*	1	0.112	2.84	0.010	0.25
M1242	2	0.186	4.72	0.012	0.30
M1243	3	0.197	5.00	0.012	0.30
M1244	4	0.215	5.46	0.012	0.30

*NEMA HP3-EXBGE.

NEMA HP3-EXBJE

16 AWG (1.23 mm²)

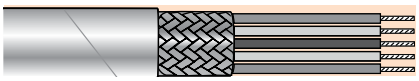
Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M1251	1	0.122	3.10	0.010	0.25
M1252	2	0.206	5.23	0.012	0.30
M1253	3	0.219	5.56	0.012	0.30
M1254	4	0.240	6.10	0.012	0.30

CA PROP 65 RoHS Compliant

High/Low Temperature Cable

600 V Braid Shield, Multiconductor, PTFE, FEP



MIL-W-16878/4 (Type E) Components

Operating Temperature

- -55°C to 200°C

Conductor Color Coding

- Chart P (page 506)

Materials

- Silver-plated copper conductors
- PTFE insulation
- Silver-plated copper braid shield, 85% coverage
- White FEP jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
Bulk, cut to length
Spools may contain multiple lengths
(Minimums may apply)

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.0095 (0.24 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
72402	2	0.136	3.45	0.012	0.30

22 AWG (0.38 mm²)

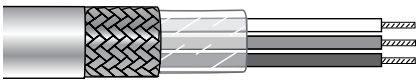
Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.0095 (0.24 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
72203	3	0.154	3.91	0.012	0.30

CA PROP 65 RoHS Compliant

High/Low Temperature Cable

600 V Braid Shield, Multiconductor, PTFE, FEP



MIL-DTL-16878/4 (Type E)
NEMA HP3-EXBEE

Operating Temperature

- -55°C to 200°C

Conductor Color Coding

- Chart G (page 503)

Materials

- Stranded silver-plated copper conductors
- PTFE insulation
- Clear polyester wrap
- Silver-plated copper braid shield, 90% coverage
- White FEP jacket

Availability

100 ft (30.5 m)
1,000 ft (305 m)*
*May contain multiple lengths

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2831	1	0.087	2.21	0.010	0.25
2831/2	2	0.132	3.35	0.010	0.25
2831/3	3	0.139	3.53	0.010	0.25

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.009 (0.23 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2834	1	0.092	2.34	0.010	0.25
2834/2	2	0.142	3.61	0.010	0.25
2834/3	3	0.154	3.91	0.012	0.30

20 AWG (0.62 mm²)

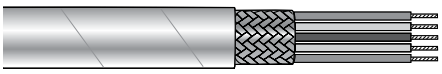
Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.009 (0.23 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2837/2	2	0.162	4.11	0.012	0.30
2837/3	3	0.171	4.34	0.012	0.30

CA PROP 65 RoHS Compliant

High/Low Temperature Cable

600 V Braid Shield, Multiconductor, PTFE, Fiberglass



MIL-DTL-16878/4 (Type E)
NEMA HP3-EXBEE

Operating Temperature

- -55°C to 200°C

Conductor Color Coding

- Chart G (page 503)

Materials

- Stranded silver-plated copper conductors
- TFE insulation
- Silver-plated copper braid shield, 90% coverage
- White PTFE-impregnated fiberglass jacket

Availability

100 ft (30.5 m)
1,000 ft (305 m)*
*May contain multiple lengths

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2811	1	0.100	2.54	0.012	0.30
2811/2	2	0.145	3.68	0.012	0.30
2811/3	3	0.152	3.86	0.012	0.30
2811/4	4	0.164	4.17	0.012	0.30
2811/5	5	0.177	4.50	0.012	0.30
2811/7	7	0.191	4.85	0.012	0.30

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.009 (0.23 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2814/2	2	0.155	3.94	0.012	0.30
2814/4	4	0.176	4.47	0.012	0.30
2814/6	6	0.206	5.23	0.012	0.30

20 AWG (0.62 mm²)

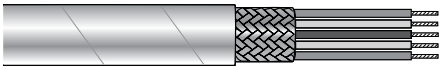
Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.009 (0.23 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2817/2	2	0.171	4.34	0.012	0.30
2817/3	3	0.180	4.57	0.012	0.30
2817/4	4	0.195	4.95	0.012	0.30
2817/5	5	0.212	5.38	0.012	0.30
2817/6	6	0.230	5.84	0.012	0.30

CA PROP 65 RoHS Compliant

High/Low Temperature Cable

600 V Braid Shield, Multiconductor, PTFE, Fiberglass



MIL-DTL-16878/4 (Type E)
NEMA HP3

Operating Temperature

- -55°C to 200°C

Conductor Color Coding

- Chart G (page 503)

Materials

- Stranded silver-plated copper conductors
- TFE insulation
- Silver-plated copper braid shield, 90% coverage
- White PTFE-impregnated fiberglass jacket

Availability

100 ft (30.5 m)
1,000 ft (305 m)*
*May contain multiple lengths

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2819	1	0.125	3.18	0.012	0.30
2819/2	2	0.195	4.95	0.012	0.30
2819/3	3	0.206	5.23	0.012	0.30
2819/4	4	0.224	5.69	0.012	0.30
2819/5	5	0.245	6.22	0.012	0.30

16 AWG (1.32 mm²)

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2820	1	0.135	3.43	0.012	0.30
2820/2	2	0.215	5.46	0.012	0.30
2820/3	3	0.228	5.79	0.012	0.30
2820/4	4	0.249	6.32	0.012	0.30

14 AWG (1.23 mm²)

Stranding: 19/27 (19 x 0.36 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2804/2	1	0.245	6.22	0.012	0.30
2804/3	2	0.260	6.60	0.012	0.30

12 AWG (3.08 mm²)

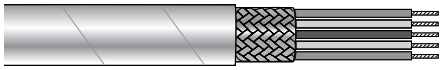
Stranding: 19/25 (19 x 0.46 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2803/2	2	0.283	7.19	0.012	0.30

CA PROP 65 RoHS Compliant

High/Low Temperature Cable

600 V Braid Shield, Multiconductor, PTFE, PTFE Tape



MIL-DTL-16878/4 (Type E)
NEMA HP3-EXBEE

Operating Temperature

- -55°C to 200°C

Conductor Color Coding

- Chart G (page 503)

Materials

- Stranded silver-plated copper conductors
- TFE insulation
- Silver-plated copper braid shield, 90% coverage
- White PTFE-impregnated fiberglass jacket

Availability

100 ft (30.5 m)
1,000 ft (305 m)*
*May contain multiple lengths

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2821	1	0.087	2.21	0.010	0.25
2821/2	2	0.136	3.45	0.012	0.30
2821/3	3	0.143	3.63	0.012	0.30
2821/4	4	0.155	3.94	0.012	0.30
2821/5	5	0.168	4.27	0.012	0.30
2821/6	6	0.182	4.62	0.012	0.30

22 AWG (0.38 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.009 (0.23 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2824	1	0.092	2.34	0.010	0.25
2824/2	2	0.146	3.71	0.012	0.30
2824/3	3	0.154	3.91	0.012	0.30
2824/4	4	0.167	4.24	0.012	0.30
2824/5	5	0.182	4.62	0.012	0.30
2824/6	6	0.193	4.90	0.012	0.30

20 AWG (0.62 mm²)

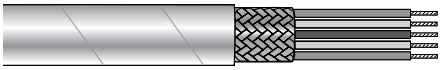
Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.009 (0.23 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2827	1	0.100	2.54	0.010	0.25
2827/2	2	0.158	4.01	0.012	0.30
2827/3	3	0.171	4.34	0.012	0.30
2827/4	4	0.186	4.72	0.012	0.30
2827/5	5	0.203	5.16	0.012	0.30
2827/6	6	0.221	5.61	0.012	0.30

CA PROP 65 RoHS Compliant

High/Low Temperature Cable

600 V Braid Shield, Multiconductor, PTFE, PTFE Tape



MIL-DTL-16878/4 (Type E)
NEMA HP3-EXBEE

Operating Temperature

- -55°C to 200°C

Conductor Color Coding

- Chart G (page 502)

Materials

- Stranded silver-plated copper conductors
- TFE insulation
- Silver-plated copper braid shield, 90% coverage
- White PTFE-impregnated fiberglass jacket

Availability

100 ft (30.5 m)
1,000 ft (305 m)*
*May contain multiple lengths

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2829/2	2	0.186	4.72	0.012	0.30
2829/3	3	0.197	5.00	0.012	0.30
2829/4	4	0.215	5.46	0.012	0.30

16 AWG (1.23 mm²)

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
2826	1	0.122	3.10	0.010	0.25
2826/2	2	0.206	5.23	0.012	0.30
2826/3	3	0.219	5.56	0.012	0.30
2826/4	4	0.240	6.10	0.012	0.30

CA PROP 65 RoHS Compliant

Tray Cable

300 V Unshielded, Multiconductor, PVC, PVC



UL PLTC, ITC
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39071	2	0.203	5.16	0.038	0.97
M39072	3	0.213	5.41	0.038	0.97

20 AWG (0.61 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39073	2	0.223	5.66	0.038	0.97
M39074	3	0.234	5.94	0.038	0.97

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39075	2	0.243	6.17	0.038	0.97
M39076	3	0.256	6.50	0.038	0.97

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (7 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39077	2	0.261	6.63	0.038	0.97
M39078	3	0.275	6.99	0.038	0.97

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39079*	2	0.325	8.26	0.043	1.09
M39080*	3	0.343	8.71	0.043	1.09

*Not CMG approved.

12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

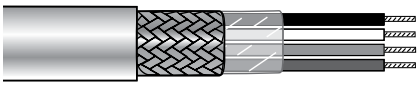
Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39081*	2	0.423	10.74	0.053	1.35

*Not CMG approved.

c UL us RoHS Compliant

Tray Cable

600 V Braid Shield, Multiconductor, PVC, PVC



MIL-DTL-16878/1 and /17 Conductors (Types B and B/N)
UL VW-1

Operating Temperature

- -55°C to 105°C

Conductor Color Coding

- Chart F (page 503)
- Chart P (page 506)

Materials

- Stranded tinned copper conductors
- PVC or PVC/nylon insulation
- Tinned copper braid shield, 90% coverage
- White PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

MIL-DTL-16878/1 Conductors

28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness		Color Code
		Inch	mm	Inch	mm	
M1411*	1	0.073	1.85	0.010	0.25	P
M1412	2	0.116	2.95	0.012	0.30	P
M1604	4	0.132	3.35	0.013	0.33	F
M1605	5	0.144	3.66	0.014	0.36	F
M1606	6	0.157	3.99	0.015	0.38	F
M1608	8	0.175	4.45	0.017	0.43	F
M1610	10	0.201	5.11	0.018	0.46	F
M1612	12	0.210	5.33	0.020	0.51	F

*Black jacket. All others white.

MIL-DTL-16878/17 Conductors

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M1421	1	0.083	2.11	0.010	0.25
M1422	2	0.140	3.56	0.014	0.36
M1423	3	0.147	3.73	0.014	0.36

MIL-DTL-16878/17 Conductors

24 AWG (0.24 mm²)

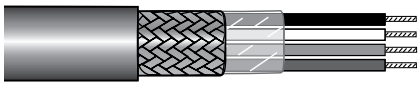
Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M1431	1	0.093	2.36	0.010	0.25
M1432	2	0.156	3.96	0.016	0.41
M1433	3	0.164	4.17	0.016	0.41

RoHS Compliant

Tray Cable

1000 V Braid Shield, Multiconductor, PVC, PVC



MIL-DTL-16878/2 and /18 Conductors (Types C and C/N)
UL VW-1

Operating Temperature

- -55°C to 105°C

Conductor Color Coding

- Chart F (page 503)

Materials

- Stranded tinned copper conductors
- PVC or PVC/nylon insulation
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

MIL-DTL-16878/2 Conductors

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M1704	4	0.269	6.83	0.023	0.58
M1705	5	0.297	7.54	0.025	0.64
M1706	6	0.332	8.43	0.030	0.76
M1708	8	0.362	9.19	0.032	0.81

MIL-DTL-16878/18 Conductors

16 AWG (1.23 mm²)

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.017 (0.43 mm) PVC/0.004 (0.10 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M1764	4	0.324	8.23	0.031	0.79
M1765	5	0.357	9.07	0.033	0.84
M1766	6	0.390	9.91	0.035	0.89
M1768	8	0.431	10.95	0.040	1.02
M1772	12	0.532	13.51	0.047	1.19
M1776	16	0.598	15.19	0.053	1.35

CA PROP 65 RoHS Compliant

Tray Cable

600 V Unshielded, Multiconductor, PVC/Nylon, PVC



UL TC

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Chart J (page 504)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3800	2	0.185 x 0.273	4.70 x 6.93	0.047	1.19
M3801	3	0.287	7.29	0.047	1.19
M3802	4	0.310	7.87	0.047	1.19
M3803	5	0.336	8.53	0.047	1.19
M3804	6	0.362	9.19	0.047	1.19
M3805	7	0.362	9.19	0.047	1.19
M3806	8	0.390	9.91	0.047	1.19
M3807	9	0.417	10.59	0.047	1.19
M3808	10	0.449	11.40	0.047	1.19
M3810	12	0.463	11.76	0.047	1.19
M3815	15	0.533	13.54	0.063	1.60
M3819	19	0.569	14.45	0.063	1.60

16 AWG (1.31 mm²)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3826	2	0.197 x 0.297	5.00 x 7.54	0.047	1.19
M3828	3	0.310	7.87	0.047	1.19
M3829	4	0.339	8.61	0.047	1.19
M3830	5	0.368	9.35	0.047	1.19
M3831	6	0.398	10.11	0.047	1.19
M3832	7	0.398	10.11	0.047	1.19
M3833	8	0.429	10.90	0.047	1.19
M3834	9	0.461	11.71	0.047	1.19
M3835	10	0.497	12.62	0.047	1.19
M3837	12	0.545	13.84	0.063	1.60
M3838	15	0.588	14.94	0.063	1.60
M3839	19	0.630	16.00	0.063	1.60
M3840	24	0.717	18.21	0.063	1.60
M3842	37	0.869	22.07	0.083	2.11

UL LISTED CA PROP 65 RoHS Compliant

Tray Cable

600 V Unshielded, Multiconductor, PVC/Nylon, PVC



UL TC

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Chart J (page 504)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

14 AWG (2.08 mm²)

Stranding: 7/0.0242 (7 x 0.62 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3845	2	0.212 x 0.32	5.38 x 8.31	0.047	1.19
M3847	3	0.345	8.76	0.047	1.19
M3848	4	0.375	9.53	0.047	1.19
M3849	5	0.409	10.39	0.047	1.19
M3850	6	0.444	11.28	0.047	1.19
M3851	7	0.444	11.28	0.047	1.19
M3852	8	0.479	12.17	0.047	1.19
M3853	9	0.547	13.89	0.063	1.60
M3854	10	0.589	14.96	0.063	1.60
M3856	12	0.607	15.42	0.063	1.60
M3857	15	0.657	16.69	0.063	1.60
M3858	19	0.705	17.91	0.063	1.60

12 AWG (3.30 mm²)

Stranding: 7/0.0305 (7 x 0.78 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3865	2	0.231 x 0.365	5.87 x 9.27	0.047	1.19
M3867	3	0.386	9.80	0.047	1.19
M3868	4	0.421	10.69	0.047	1.19
M3869	5	0.460	11.68	0.047	1.19
M3870	6	0.501	12.73	0.047	1.19
M3871	7	0.501	12.73	0.047	1.19
M3872	8	0.575	14.61	0.063	1.60
M3873	9	0.617	15.67	0.063	1.60
M3874	10	0.665	16.89	0.063	1.60
M3876	12	0.686	17.42	0.063	1.60
M3877	15	0.744	18.90	0.063	1.60
M3878	16	0.759	19.28	0.063	1.60
M3879	19	0.800	20.32	0.063	1.60

Tray Cable

600 V Unshielded, Multiconductor, PVC/Nylon, PVC



UL TC

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Chart J (page 504)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

10 AWG (5.26 mm²)

Stranding: 7/0.0385 (7 x 0.98 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M3902	2	0.267 x 0.365	6.78 x 9.27	0.047	1.19
M3903	3	0.464	11.79	0.047	1.19
M3904	4	0.540	13.72	0.063	1.60
M3906	6	0.641	16.28	0.063	1.60
M3908	8	0.694	17.63	0.063	1.60
M3910	9	0.748	19.00	0.063	1.60
M3911	10	0.809	20.55	0.063	1.60
M3913	12	0.875	22.23	0.083	2.11
M3915	14	0.920	23.37	0.083	2.11
M3916	15	0.950	24.13	0.083	2.11

Tray Cable

600 V Unshielded, Multiconductor, PVC/Nylon, PVC



UL TC

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- PVC/nylon insulation
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39056	2	0.283	7.19	0.048	1.22

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39057	2	0.301	7.65	0.048	1.22

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39058	2	0.355	9.02	0.048	1.22

12 AWG (3.29 mm²)

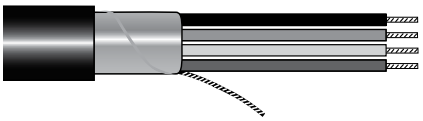
Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39059	2	0.393	9.98	0.048	1.22

UL LISTED CA PROP 65 RoHS Compliant

Tray Cable

600 V Foil Shield, Multiconductor, PVC/Nylon, PVC



UL TC

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Chart J (page 504)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M33800	2	0.277	7.04	0.047	1.19
M33801	3	0.291	7.39	0.047	1.19
M33802	4	0.314	7.98	0.047	1.19
M33803	5	0.340	8.64	0.047	1.19
M33805	7	0.366	9.30	0.047	1.19
M33807	9	0.421	10.69	0.047	1.19
M33810	12	0.467	11.86	0.047	1.19
M33815	15	0.537	13.64	0.063	1.60
M33819	19	0.573	14.55	0.063	1.60

16 AWG (1.31 mm²)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M33826	2	0.301	7.65	0.047	1.19
M33828	3	0.317	8.05	0.047	1.19
M33829	4	0.343	8.71	0.047	1.19
M33830	5	0.372	9.45	0.047	1.19
M33832	7	0.402	10.21	0.047	1.19
M33834	9	0.465	11.81	0.047	1.19
M33837	12	0.549	13.94	0.063	1.60
M33838	15	0.592	15.04	0.063	1.60
M33839	19	0.634	16.10	0.063	1.60

14 AWG (2.08 mm²)

Stranding: 7/0.0242 (7 x 0.62 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M33845	2	0.331	8.41	0.047	1.19
M33847	3	0.349	8.86	0.047	1.19
M33848	4	0.379	9.63	0.047	1.19
M33849	5	0.413	10.49	0.047	1.19
M33851	7	0.448	11.38	0.047	1.19
M33853	9	0.551	14.00	0.063	1.60
M33856	12	0.611	15.52	0.063	1.60
M33857	15	0.661	16.79	0.063	1.60
M33858	19	0.709	18.01	0.063	1.60

12 AWG (3.30 mm²)

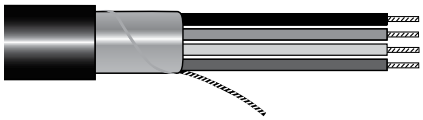
Stranding: 7/0.0305 (7 x 0.78 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M33867	3	0.390	9.91	0.047	1.19

UL LISTED CA PROP 65 RoHS Compliant

Tray Cable

600 V Foil Shield, Multiconductor, PVC/Nylon, PVC



UL TC

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39109	2	0.287	7.29	0.048	1.22

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39110	2	0.305	7.75	0.048	1.22

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39111	2	0.359	9.11	0.048	1.22

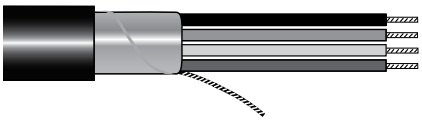
12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39112	2	0.397	10.08	0.048	1.22

Tray Cable

600 V Foil Shield, Multiconductor, PVC/Nylon, PVC



16 AWG (1.31 mm²)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
7616/6	6	0.401	10.19	0.048	1.22

UL TC

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Chart J1 (page 504)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire equal in size to conductors
- Black PVC jacket

Availability

Bulk, cut to length
(Minimums may apply)

14 AWG (2.08 mm²)

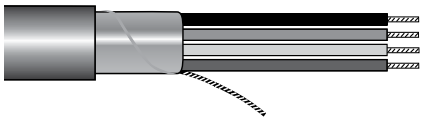
Stranding: 7/0.0242 (41 x 0.62 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
7614/6	6	0.447	11.35	0.048	1.22

UL LISTED CA PROP 65 RoHS Compliant

Tray Cable

300 V Overall Foil Shield, Multiconductor, PVC, PVC



UL PLTC, ITC
UL CMG
CSA CMG FT4

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- Chart D (page 502)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester tape shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire one even AWG size smaller than conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39113	2	0.207	5.26	0.038	0.97
M39114	3	0.214	5.44	0.038	0.97

20 AWG (0.61 mm²)

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39115	2	0.227	5.77	0.038	0.97
M39116	3	0.238	6.05	0.038	0.97

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39117	2	0.247	6.27	0.038	0.97
M39118	3	0.260	6.60	0.038	0.97

16 AWG (1.32 mm²)

Stranding: 19/0.0117 (7 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39119	2	0.265	6.73	0.038	0.97
M39120	3	0.279	7.09	0.038	0.97

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39121*	2	0.329	8.36	0.043	1.09
M39122*	3	0.347	8.81	0.043	1.09

*Not CMG approved.

12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.032 (0.41 mm)

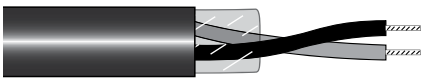
Part No.	Conductor	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39123*	2	0.427	10.85	0.053	1.35

*Not CMG approved.

c UL us RoHS Compliant

Tray Cable

300 V Unshielded, Multipair, PVC, PVC



UL PLTC, ITC
UL CL3
CSA CMG FT4

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- Black, white

Materials

- Stranded bare copper conductors
- PVC insulation
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

20 AWG (0.52 mm²)

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9500010	1	0.215	5.46	0.038	0.97

18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9508010	1	0.235	5.97	0.038	0.97

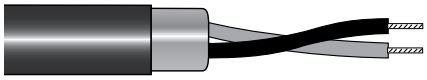
16 AWG (1.31 mm²)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9506010	1	0.259	6.58	0.038	0.97

Tray Cable

300 V Overall Foil Shield, Multipair, PVC, PVC



UL PLTC, ITC
UL CL3
CSA CMG FT4

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- Black, white

Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire one even AWG smaller than conductor
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.013 (0.33 mm)
22 AWG (0.35 mm2) drain wire

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5610B2201	1	0.192	4.88	0.038	0.97

20 AWG (0.52 mm²)

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9520010	1	0.219	5.56	0.038	0.97

18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9528010	1	0.239	6.07	0.038	0.97

16 AWG (1.31 mm²)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9526010	1	0.263	6.68	0.038	0.97

14 AWG (2.08 mm²)

Stranding: 7/0.0242 (7 x 0.62 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9524010*	1	0.303	7.70	0.043	1.09

*Not CMG approved.

12AWG (3.29 mm²)

Stranding: 19/0.0185 (7 x 0.47 mm)
Insulation thickness: 0.022 (0.56 mm)
16 AWG (1.31 mm2) drain wire

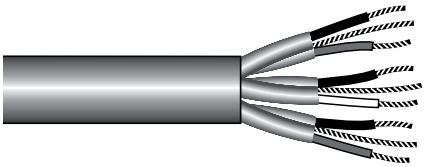
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5610B1201*	1	0.368	9.35	0.045	1.14

*Not CMG approved.

UL LISTED CSA RoHS Compliant

Tray Cable

300 V Individual Foil Shield, Multipair, PVC, PVC



UL PLTC, ITC
UL CMG
CSA CMG

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- Chart BR (page 500)

Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire one even AWG size smaller than conductor
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39147	2	0.320	8.13	0.043	1.09
M39148	3	0.338	8.59	0.043	1.09
M39149	4	0.368	9.35	0.043	1.09
M39150	6	0.457	11.61	0.053	1.35
M39151	9	0.529	13.44	0.053	1.35
M39152	11	0.563	14.30	0.053	1.35
M39153	15	0.582	14.78	0.053	1.35
M39156	51	1.005	25.53	0.075	1.91

18 AWG (0.96 mm²)

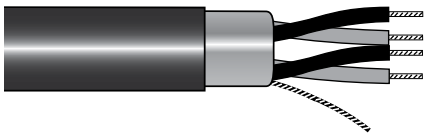
Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M39157	2	0.410	10.41	0.053	1.35
M39158	3	0.434	11.02	0.053	1.35
M39159	4	0.473	12.01	0.053	1.35
M39160	6	0.563	14.30	0.053	1.35
M39161	9	0.677	17.20	0.063	1.60
M39162	11	0.731	18.57	0.063	1.60
M39163	15	0.820	20.83	0.063	1.60

c UL us RoHS Compliant

Tray Cable

600 V Overall Foil Shield, Multipair, PVC, PVC



UL TC

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Chart BW (page 500)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

20 AWG (0.52 mm²)

Stranding: 7/0.0121 (7 x 0.51 mm)
Insulation thickness: 0.013 (0.33 mm) PVC/0.003 (0.08 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5616B2001	1	0.220	5.59	0.040	1.02

18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M8528010	1	0.279	7.09	0.048	1.22
M8708020	2	0.396	10.06	0.050	1.27
M8708040	4	0.456	11.58	0.050	1.27
M8708060	6	0.572	14.53	0.065	1.65
M8708080	8	0.617	15.67	0.065	1.65
M8708120	12	0.737	18.72	0.065	1.65
M8708160	16	0.856	21.74	0.085	2.16
M8708240	24	1.025	26.04	0.085	2.16
M8708360	36	1.188	30.18	0.085	2.16
M8708500	50	1.356	34.44	0.085	2.16

16 AWG (1.31 mm²)

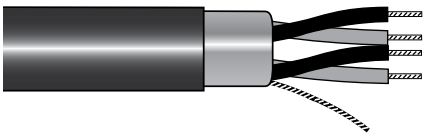
Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M8526010	1	0.303	7.70	0.048	1.22
M8706020	2	0.435	11.05	0.050	1.27
M8706040	4	0.504	12.80	0.050	1.27
M8706060	6	0.631	16.03	0.065	1.65
M8706080	8	0.682	17.32	0.065	1.65
M8706120	12	0.858	21.79	0.085	2.16
M8706160	16	0.949	24.10	0.085	2.16
M8706240	24	1.141	28.98	0.085	2.16
M8706360	36	1.325	33.66	0.085	2.16
M8706500	50	1.517	38.53	0.085	2.16

UL LISTED RoHS Compliant

Tray Cable

600 V Overall Foil Shield, Multipair, PVC/Nylon, PVC



UL TC

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Chart BW (page 500)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

14 AWG (2.08 mm²)

Stranding: 7/0.0242 (7 x 0.61 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M8524010	1	0.333	8.46	0.048	1.22
M8704020	2	0.484	12.29	0.050	1.27
M8704040	4	0.593	15.06	0.065	1.65
M8704060	6	0.706	17.93	0.065	1.65
M8704080	8	0.764	19.41	0.065	1.65
M8704120	12	0.961	24.41	0.085	2.16
M8704160	16	1.064	27.03	0.085	2.16
M8704240	24	1.286	32.66	0.085	2.16
M8704360	36	1.498	38.05	0.085	2.16
M8704500	50	1.778	45.16	0.115	2.92

12AWG (3.29 mm²)

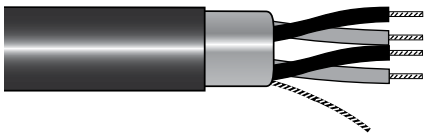
Stranding: 19/0.0185 (19 x 0.47 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5616B1201	1	0.374	9.50	0.050	1.27

UL LISTED RoHS Compliant

Tray Cable

600 V Overall and Individual Foil Shield, Multipair, PVC/Nylon, PVC



UL TC

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Chart BW (page 500)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M8748020	2	0.429	10.90	0.050	1.27
M8748040	4	0.497	12.62	0.050	1.27
M8748060	6	0.622	15.80	0.065	1.65
M8748080	8	0.672	17.07	0.065	1.65
M8748120	12	0.806	20.47	0.065	1.65
M8748160	16	0.935	23.75	0.085	2.16
M8748200	20	1.020	25.91	0.085	2.16
M8748240	24	1.123	28.52	0.085	2.16
M8748360	36	1.306	33.17	0.085	2.16
M8748500	50	1.497	38.02	0.085	2.16

16 AWG (1.31 mm²)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M8746020	2	0.471	11.96	0.050	1.27
M8746040	4	0.577	14.66	0.065	1.65
M8746060	6	0.686	17.42	0.065	1.65
M8746080	8	0.742	18.85	0.065	1.65
M8746120	12	9.33	23.70	0.085	2.16
M8746160	16	1.034	26.26	0.085	2.16
M8746200	20	1.130	28.70	0.085	2.16
M8746240	24	1.247	31.67	0.085	2.16
M8746360	36	1.454	36.93	0.085	2.16
M8746500	50	1.730	43.94	0.115	2.92

14 AWG (2.08 mm²)

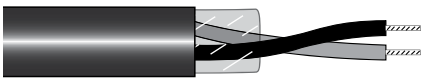
Stranding: 7/0.0242 (7 x 0.61 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M8744020	2	0.523	13.28	0.050	1.27
M8744040	4	0.641	16.28	0.065	1.65
M8744060	6	0.765	19.43	0.065	1.65
M8744080	8	0.869	22.07	0.085	2.16
M8744120	12	1.043	26.49	0.085	2.16
M8744160	16	1.158	29.41	0.085	2.16
M8744200	20	1.267	32.18	0.085	2.16
M8744240	24	1.401	35.59	0.085	2.16
M8744360	36	1.638	41.61	0.085	2.16
M8744500	50	1.945	49.40	0.115	2.92

UL LISTED RoHS Compliant

Tray Cable

600 V Unshielded, Multipair, PVC/Nylon, PVC



18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5606B1801	1	0.276	7.01	0.050	1.27

UL TC

16 AWG (1.31 mm²)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5606B1601	1	0.300	7.62	0.050	1.27

Operating Temperature

- -25°C to 90°C

Conductor Color Coding

- Black, white

Materials

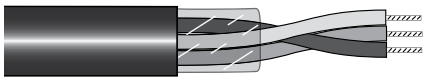
- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

Availability

1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

Tray Cable

300 V Unshielded, Triads, PVC, PVC



UL PLTC, ITC
UL CL3
CSA CMG FT4

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- Black, white, red

Materials

- Stranded bare copper conductors
- PVC insulation
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

20 AWG (0.52 mm²)

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Triads	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9600010	1	0.226	5.74	0.038	0.97

18 AWG (0.81 mm²)

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Triads	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9608010	1	0.247	6.27	0.038	0.97

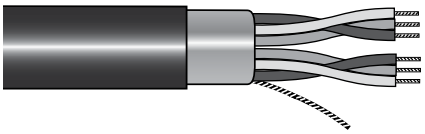
16 AWG (1.31 mm²)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Triads	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9606010	1	0.293	7.44	0.038	0.97

Tray Cable

300 V Foil Shield, Triads, PVC, PVC



UL PLTC, ITC
UL CL3
CSA CMG FT4

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- Black, white, red

Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.013 (0.33 mm)
22 AWG (0.35 mm²) drain wire

Part No.	Triads	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5640B2201	1	0.201	5.11	0.038	0.96

20 AWG (0.52 mm²)

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Triads	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9620010	1	0.230	5.84	0.038	0.97
5640B2004	4	0.410	10.41	0.055	1.39
5640B2012	12	0.640	16.28	0.065	1.65

18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Triads	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9628010	1	0.251	6.38	0.038	0.97

16 AWG (1.31 mm²)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Triads	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9626010	1	0.287	7.29	0.043	1.09

14 AWG (2.08 mm²)

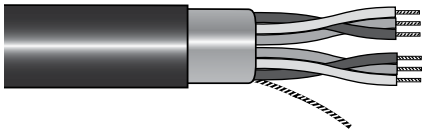
Stranding: 7/0.0242 (7 x 0.61 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Triads	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9624010*	1	0.319	8.10	0.043	1.09

*Not CMG approved.

Tray Cable

300 V Overall Foil Shield, Composite, Multipair, PVC/Nylon, PVC



UL PLTC, ITC
UL CL3
CSA CMG FT4

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- Chart BW (page 500)

Materials

- Stranded bare copper conductors
- PVC insulation
- Communications wire is 22 AWG (0.35 mm^2), 7/30 (7 x 0.25 mm) stranding, bare copper with 0.016 (0.41 mm) thick insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire one even AWG smaller than conductor
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

20 AWG (0.52 mm^2) Pairs

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9700020	2	0.321	8.15	0.045	1.14
M9700040	4	0.400	10.16	0.053	1.35
M9700060	6	0.451	11.46	0.053	1.35
M9700080	8	0.511	12.98	0.053	1.35
M9700120	12	0.581	14.76	0.053	1.35
M9700160	16	0.660	16.76	0.063	1.60
5610B2020*	20	0.677	17.20	0.065	1.65
M9700240	24	0.791	20.09	0.063	1.60
M9700360	36	0.925	23.50	0.073	1.85
M9700500	50	1.069	27.15	0.073	1.85

*No communication wire.

18 AWG (0.81 mm^2) Pairs

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9708020	2	0.353	8.97	0.045	1.14
M9708040	4	0.431	10.95	0.053	1.35
M9708060	6	0.499	12.67	0.053	1.35
M9708080	8	0.558	14.17	0.053	1.35
M9708120	12	0.664	16.87	0.063	1.60
M9708160	16	0.735	18.67	0.063	1.60
M9708240	24	0.905	22.99	0.073	1.85
M9708360	36	1.049	26.64	0.073	1.85
M9708500	50	1.199	30.45	0.073	1.85

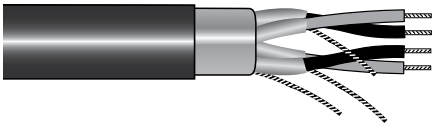
16 AWG (1.31 mm^2)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9706020	2	0.409	10.39	0.053	1.35
M9706040	4	0.471	11.96	0.053	1.35
M9706060	6	0.559	14.20	0.053	1.35
M9706080	8	0.639	16.23	0.063	1.60
M9706120	12	0.747	18.97	0.063	1.60
M9706160	16	0.829	21.06	0.063	1.60
M9706240	24	1.023	25.98	0.073	1.85
M9706360	36	1.189	30.20	0.073	1.85
M9706500	50	1.382	35.10	0.083	2.11

Tray Cable

300 V Overall and Individual Foil Shield, Composite, Multipair, PVC/Nylon, PVC



UL PLTC, ITC
UL CL3
CSA CMG FT4

Operating Temperature

- -20°C to 105°C

Conductor Color Coding

- Chart BW (page 500)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward
  Stranded tinned copper
  drain wire one even AWG size smaller than conductors
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

20 AWG (0.52 mm²)*

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9740020	2	0.349	8.86	0.045	1.14
M9740040	4	0.427	10.85	0.053	1.35
M9740060	6	0.493	12.52	0.053	1.35
M9740080	8	0.539	13.69	0.053	1.35
M9740120	12	0.643	16.33	0.063	1.60
M9740160	16	0.724	18.39	0.063	1.60
5620B2020*	20	0.752	19.10	0.065	1.65
M9740240	24	0.882	22.40	0.073	1.85
M9740360	36	1.011	25.68	0.073	1.85
M9740500	50	1.169	29.69	0.073	1.85

*0.013 (0.33 mm) insulation thickness.

18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm) PVC

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9748020	2	0.401	10.19	0.053	1.35
M9748040	4	0.463	11.76	0.053	1.35
M9748060	6	0.547	13.89	0.053	1.35
M9748080	8	0.616	15.65	0.063	1.60
M9748120	12	0.712	18.08	0.063	1.60
M9748160	16	0.805	20.45	0.063	1.60
5620B1820	20	0.921	23.36	0.075	1.91
M9748240	24	0.983	24.97	0.073	1.85
M9748360	36	1.130	28.70	0.073	1.85
M9748500	50	1.349	34.26	0.083	2.11

16 AWG (1.31 mm²)

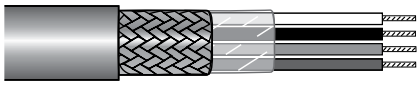
Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M9746020	2	0.441	11.20	0.053	1.35
M9746040	4	0.512	13.00	0.053	1.35
M9746060	6	0.630	16.00	0.063	1.60
M9746080	8	0.690	17.53	0.063	1.60
M9746120	12	0.819	20.80	0.063	1.60
M9746160	16	0.929	23.60	0.073	1.85
M9746240	24	1.123	28.52	0.073	1.85
M9746360	36	1.328	33.73	0.083	2.11
M9746500	50	1.521	38.63	0.083	2.11

Tray Cable

Solar Cable

1000 V Braid Shield, Multiconductor, PVC/Nylon, PVC



UL TC-ER
UL WTTC (1000 V)
UL MTW
CSA AWM I/II A/B FT1

Operating Temperature

- -40°C to 90°C (Static)
- -30°C to 90°C (Dynamic)
- 105°C (CSA)

Conductor Color Coding

- Chart F (page 503)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Clear polyester wrap
- Tinner copper braid shield, 85% coverage
- Green PVC jacket

Availability

Bulk, cut to length

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
SPM1803CY	3	0.329	8.36	0.050	1.27
SPM1804CY	4	0.354	8.99	0.050	1.27
SPM1805CY	5	0.381	9.68	0.050	1.27
SPM1807CY	7	0.409	10.39	0.050	1.27
SPM1809CY	9	0.466	11.84	0.050	1.27

16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
SPM1603CY	3	0.351	8.92	0.050	1.27
SPM1604CY	4	0.378	9.60	0.050	1.27
SPM1605CY	5	0.408	10.36	0.050	1.27
SPM1607CY	7	0.439	11.15	0.050	1.27
SPM1609CY	9	0.509	12.93	0.050	1.27

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
SPM1403CY	3	0.381	9.68	0.050	1.27
SPM1404CY	4	0.412	10.46	0.050	1.27
SPM1405CY	5	0.446	11.33	0.050	1.27
SPM1407CY	7	0.481	12.22	0.050	1.27
SPM1409CY	9	0.590	14.99	0.065	1.65

12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

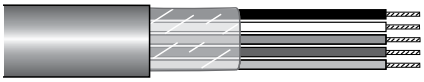
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
SPM1203CY	3	0.422	10.72	0.050	1.27
SPM1204CY	4	0.458	11.63	0.050	1.27
SPM1205CY	5	0.497	12.62	0.050	1.27
SPM1207CY	7	0.574	14.58	0.065	1.65
SPM1209CY	9	0.659	16.74	0.065	1.65

RoHS Compliant

Tray Cable

Solar Cable

1000 V Unshielded, Multiconductor, PVC/Nylon, PVC



UL TC-ER
UL WTTC (1000 V)
UL MTW
CSA AWM I/II A/B FT1

Operating Temperature

- -40°C to 90°C (Static)
- -30°C to 90°C (Dynamic)
- 105°C (CSA)

Conductor Color Coding

- Chart F (page 503)

Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Clear polyester wrap
- Green PVC jacket

Availability

Bulk, cut to length

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
SPM1803	3	0.301	7.65	0.050	1.27
SPM1804	4	0.326	8.28	0.050	1.27
SPM1805	5	0.353	8.97	0.050	1.27
SPM1807	7	0.381	9.68	0.050	1.27
SPM1809	9	0.438	11.13	0.050	1.27

16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
SPM1603	3	0.323	8.20	0.050	1.27
SPM1604	4	0.350	8.89	0.050	1.27
SPM1605	5	0.380	9.65	0.050	1.27
SPM1607	7	0.411	10.44	0.050	1.27
SPM1609	9	0.475	12.07	0.050	1.27

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
SPM1403	3	0.353	8.97	0.050	1.27
SPM1404	4	0.384	9.75	0.050	1.27
SPM1405	5	0.418	10.62	0.050	1.27
SPM1407	7	0.453	11.51	0.050	1.27
SPM1409	9	0.556	14.12	0.065	1.65

12 AWG (3.29 mm²)

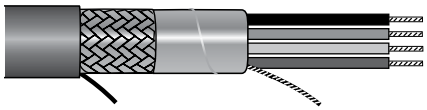
Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
SPM1203	3	0.394	10.01	0.050	1.27
SPM1204	4	0.430	10.92	0.050	1.27
SPM1205	5	0.469	11.91	0.050	1.27
SPM1207	7	0.510	12.95	0.050	1.27
SPM1209	9	0.625	15.88	0.065	1.65

RoHS Compliant

Tray Cable

Light Duty Flexing
600 V Foil + Braid Shield, Four Conductors, PVC/Nylon, PVC



UL TC-ER
UL MTW
UL WTTC
CSA AWM I/II A/B FT4
CE

Operating Temperature
- -5°C to 90°C (dynamic)
- -20°C to 90°C (static)

Conductor Color Coding
- One yellow/green and three numbered black

Materials
- Finely stranded bare copper conductors
- PVC/nylon insulation
- Foil + braid shield
  Aluminum/polyester/aluminum foil shield, with 25% overlap and four tinned copper drain wires
  Tinned copper braid with 70% coverage
- Black PVC jacket

Voltage
- 600 V (UL TC-ER, MTW)
- 1000 V (UL WTTC)

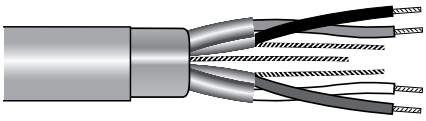
Availability
Bulk, cut to length

16 to 6 AWG (1.49 to 5.33 mm²)											
Part No.	Conductors	Wire Size		Stranding		Nominal Diameter		Jacket Thickness		Insulation Thickness	
		AWG	mm²	AWG	mm	Inch	mm	Inch	mm	Inch	mm
5660	4	16	1.32	26/30	26 x 0.25	0.381	9.67	0.050	1.27	0.016	0.40
5661	4	14	2.08	41/30	41 x 0.25	0.418	10.61	0.050	1.27	0.016	0.40
5662	4	12	3.30	65/30	65 x 0.25	0.464	11.78	0.050	1.27	0.016	0.40
5663	4	10	5.32	105/30	105 x 0.25	0.579	14.70	0.063	1.60	0.022	0.55
5664	4	8	8.52	168/30	168 x 0.25	0.760	19.30	0.063	1.60	0.032	0.81
5665	4	6	13.49	266/30	266 x 0.25	0.901	22.88	0.083	2.10	0.032	0.81

RoHS Compliant

Plenum Cable

Low and Mid-Capacitance
150 V Foil Shield, Multipair, FEP, PVDF



UL CL2P
UL CMP
CSA CMP FT6

Operating Temperature

- -25°C to 125°C

Conductor Color Coding

- Chart A1 (page 499)

Materials

- Stranded tinned copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire, 24 AWG (0.22 mm^2), 7/32 (7 x 0.20 mm)
- Slate PVDF jacket

Availability

500 ft (152 m)
1,000 ft (305 m)*
*May contain multiple lengths

Individually Shielded Pairs

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58602	2	0.164	4.17	0.009	0.23
58603	3	0.175	4.45	0.009	0.23
58604	4	0.194	4.93	0.009	0.23

Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

Overall Shield

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58802	2	0.154	3.91	0.011	0.28
58803	3	0.163	4.14	0.011	0.28
58804	4	0.180	4.57	0.011	0.28
58806	6	0.217	5.51	0.011	0.28
58809	9	0.256	6.50	0.011	0.28
58812	12.5	0.294	7.47	0.011	0.28

Mutual capacitance: 20 pF/ft (65.6 pF/m)
Ground capacitance: 36 pF/ft (118.1 pF/m)

Overall Shield

24 AWG (0.22 mm²)

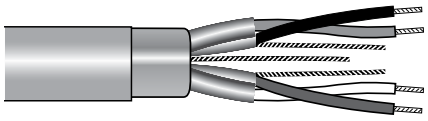
Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.012 (0.30 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58902	2	0.186	4.72	0.011	0.28
58903	3	0.199	5.05	0.011	0.28
58904	4	0.219	5.56	0.011	0.28
58906	6	0.266	6.76	0.011	0.28
58909	9	0.315	8.00	0.011	0.28
58912	12.5	0.367	9.32	0.011	0.28

Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 23 pF/ft (75.5 pF/m)

Plenum Cable

Low and Mid-Capacitance
150 V Foil Shield, Multipair, FEP, PVDF



UL CL2P
UL CMP
CSA CMP FT6

Operating Temperature

- -55°C to 125°C

Conductor Color Coding

- Chart A1 (page 499)

Materials

- Stranded tinned copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire, 24 AWG (0.22 mm^2), 7/32 (7 x 0.20 mm)
- Slate PVDF jacket

Availability

500 ft (152 m)
1,000 ft (305 m)*
*May contain multiple lengths

Overall Foil Shield, Individually Shielded Pairs

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58612	2	0.189	4.80	0.009	0.23
58613	3	0.202	5.13	0.009	0.23
58616	6	0.272	6.91	0.009	0.23

Mutual capacitance: 29 pF/ft (95.1 pF/m)
Ground capacitance: 51 pF/ft (167.3 pF/m)

Individually Shielded Pairs, Overall Shield

18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58632	2	0.247	6.27	0.010	0.25
58633	3	0.264	6.71	0.012	0.30

Mutual capacitance: 35 pF/ft (114.8 pF/m)
Ground capacitance: 63 pF/ft (206.7 pF/m)

Individually Shielded Pairs

16 AWG (0.35 mm²)

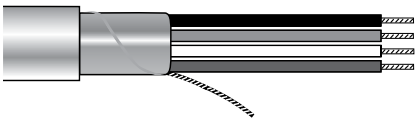
Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.007 (0.18 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58642	2	0.289	7.34	0.012	0.30
58643	3	0.309	7.85	0.012	0.30

Mutual capacitance: 39 pF/ft (128 pF/m)
Ground capacitance: 69 pF/ft (226.4 pF/m)

Plenum Cable

Low and Mid-Capacitance
300 V Overall Foil Shield, Multiconductor, PVC, PVC



UL CMP
CSA CMP FT6

Operating Temperature

- -20°C to 75°C

Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green, 5 Brown, 6 Blue, 7 Orange, 8 Yellow, 9 Violet, 10 Slate

Materials

- Stranded bare copper conductors
- Plenum-rated PVC insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward Stranded tinned copper drain wire (see tables for size)
- White plenum-rated PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

18 AWG (0.89 mm²)

Stranding: 7/26 (16 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)
20 AWG (0.56 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M244825	2	0.146	3.71	0.015	0.38
M244826	3	0.181	4.60	0.015	0.38
M244827	4	0.199	5.05	0.015	0.38

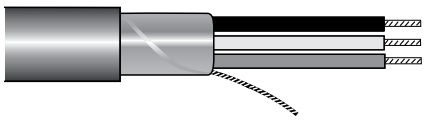
16 AWG (1.32 mm²)

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.010 (0.25 mm)
18 AWG (0.89 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M244834	2	0.192	4.88	0.015	0.38
M244835	3	0.204	5.18	0.015	0.38
M244836	4	0.225	5.71	0.015	0.38

Plenum Cable

300 V Foil Shield, Multiconductor, PVC, PVC



UL CL2P
UL CMP
CSA CMP FT6

Operating Temperature

- -5°C to 75°C

Conductor Color Coding

- Chart D2 (page 502)

Materials

- Stranded bare copper conductors
- Plenum-rated PVC insulation
- Foil shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- Slate plenum-rated PVC jacket

Availability

500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.008 (0.020 mm)
24 AWG (0.22 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58401	2	0.120	3.05	0.015	0.39
57003	3	0.120	3.05	0.015	0.39
57004	4	0.131	3.33	0.015	0.39
57006	6	0.154	3.91	0.015	0.39
57008	8	0.167	4.24	0.015	0.39
57010	10	0.194	4.93	0.015	0.39
57015	15	0.217	5.51	0.015	0.39

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.008 (0.020 mm)
24 AWG (0.22 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58411	2	0.126	3.20	0.015	0.39
58113	3	0.133	3.38	0.015	0.39
58114	4	0.145	3.68	0.015	0.39
58116	6	0.172	4.37	0.015	0.39
58117	7	0.172	4.37	0.015	0.39
58118	8	0.187	4.75	0.015	0.39
58119	9	0.201	5.11	0.015	0.39
58120	10	0.218	5.54	0.015	0.39
58120/12	12	0.225	5.72	0.015	0.39
58120/15	15	0.245	6.22	0.015	0.39
58120/25	25	0.314	7.98	0.017	0.43

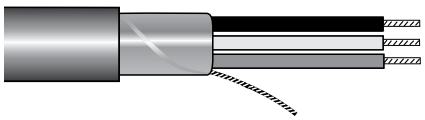
20 AWG (0.35 mm²)

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.008 (0.020 mm)
22 AWG (0.35 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58421	2	0.138	3.51	0.015	0.39
58124	4	0.160	4.06	0.015	0.39
58126	6	0.191	4.85	0.015	0.39

Plenum Cable

300 V Foil Shield, Multiconductor, PVC, PVC



UL CL2P
UL CMP
CSA CMP FT6

Operating Temperature

- -5°C to 75°C

Conductor Color Coding

- Chart D2 (page 502)

Materials

- Stranded bare copper conductors
- Plenum-rated PVC insulation
- Foil shield
  Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- Slate plenum-rated PVC jacket

Availability

500 ft (152 m)
1,000 ft (305 m)

18 AWG (0.82 mm²)

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.009 (0.023 mm)
22 AWG (0.35 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58431	2	0.162	4.11	0.015	0.39
58133	3	0.172	4.37	0.015	0.39
58134	4	0.189	4.80	0.015	0.39
58136	6	0.227	5.77	0.015	0.39

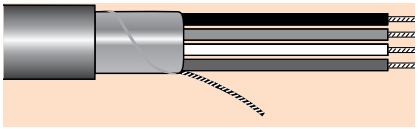
16 AWG (1.31 mm²)

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.009 (0.023 mm)
18 AWG (0.82 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58142	2	0.186	4.72	0.015	0.39
58144	4	0.218	5.54	0.015	0.39

Plenum Cable

300 V Overall Foil Shield, FEP, FEP



UL CMP
CSA CMP FT6

Operating Temperature

- -20°C to 150°C

Conductor Color Coding

- Chart F (page 503)

Materials

- Stranded tinned copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- Slate FEP jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.006 (0.15 mm)
24 AWG (0.22 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M64837	2	0.096	2.44	0.010	0.25
M64838	3	0.102	2.59	0.010	0.25
M64839	4	0.111	2.82	0.010	0.25
M64840	5	0.122	3.10	0.010	0.25
M64841	6	0.133	3.38	0.010	0.25
M64842	7	0.133	3.38	0.010	0.25
M64843	8	0.168	4.26	0.012	0.30

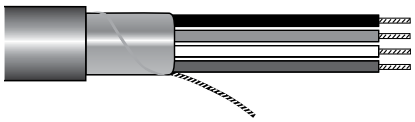
22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.006 (0.15 mm)
24 AWG (0.22 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M64800	2	0.108	2.74	0.010	0.25
M64801	3	0.115	2.92	0.010	0.25
M64802	4	0.126	3.20	0.010	0.25
M64803	5	0.138	3.51	0.010	0.25
M64804	6	0.151	3.84	0.010	0.25
M64805	7	0.151	3.84	0.010	0.25
M64806	8	0.168	4.27	0.012	0.30
M64807	9	0.181	4.60	0.012	0.30
M64808	10	0.196	4.98	0.012	0.30
M64809	12	0.203	5.16	0.012	0.30
M64812	15	0.221	5.61	0.012	0.30

Plenum Cable

300 V Overall Foil Shield, FEP, FEP



UL CMP
CSA CMP FT6

Operating Temperature

- -20°C to 150°C

Conductor Color Coding

- Chart D (page 502)
- Chart F (page 503)

Materials

- Stranded tinned copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward Stranded tinned copper drain wire (see tables for size)
- Slate FEP jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

-80 to 150°C Temperature Rating, Color Code D

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.006 (0.15 mm)
24 AWG (0.22 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M613226	**1**	0.118	2.99	0.015	0.38

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.006 (0.15 mm)
22 AWG (0.35 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M64816	2	0.124	3.15	0.010	0.25
M64817	3	0.132	3.35	0.010	0.25
M64818	4	0.145	3.68	0.010	0.25

-80 to 150°C Temperature Rating, Color Code D

18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.007 (0.18 mm)
20 AWG (0.60 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M613242	2	0.162	4.11	0.015	0.38

18 AWG (0.89 mm²)

Stranding: 7/26 (16 x 0.40 mm)
Insulation thickness: 0.009 (0.23 mm)
20 AWG (0.56 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M64825	2	0.160	4.06	0.010	0.25
M64826	3	0.166	4.22	0.010	0.25
M64827	4	0.188	4.78	0.012	0.30
M64829	6	0.227	5.77	0.012	0.30

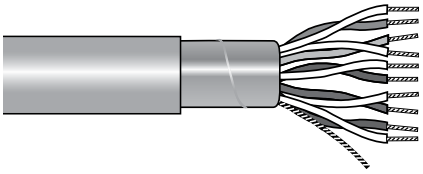
16 AWG (1.43 mm²)

Stranding: 7/24 (7 x 0.51 mm)
Insulation thickness: 0.009 (0.23 mm)
18 AWG (0.89 mm²) drain wire

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
M64834	2	0.180	4.57	0.010	0.25
M64835	3	0.196	4.98	0.012	0.30
M64836	4	0.217	5.51	0.012	0.30

Plenum Cable

300 V Foil Shield, Multipair, PVC, PVC



UL CL2P
UL CMP
CSA CMP FT6

Operating Temperature

- -5°C to 75°C

Conductor Color Coding

- Chart A1 (page 499)

Materials

- Stranded bare copper conductors
- Plenum-rated PVC insulation
- Foil shield
- Aluminum/polyester foil shield, 25% overlap min. Foil facing outward Stranded tinned copper drain wire (see tables for size)
- Slate plenum-rated PVC jacket

Availability

500 ft (152 m)
1,000 ft (305 m)

24 AWG (0.22 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.008 (0.020 mm)
24 AWG (0.22 mm²) drain wire

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
57602	2	0.165	4.19	0.015	0.39
57603	3	0.175	4.45	0.015	0.39
57604	4	0.193	4.90	0.015	0.39
57605	5	0.212	5.38	0.015	0.39

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.008 (0.020 mm)
24 AWG (0.22 mm²) drain wire

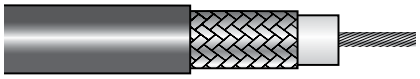
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
58412	2	0.185	4.70	0.015	0.39
58413	3	0.197	5.00	0.015	0.39
58414	4	0.217	5.51	0.015	0.39
58415	5	0.239	6.07	0.015	0.39
58416	6	0.261	6.63	0.015	0.39
57628	8	0.285	7.24	0.015	0.39
58419	9	0.311	7.90	0.016	0.41
58420/19	19	0.418	10.62	0.018	0.46

20 AWG (0.35 mm²)

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.008 (0.020 mm)
22 AWG (0.35 mm²) drain wire

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
57632	2	0.205	5.21	0.015	0.39
57634	4	0.240	6.10	0.015	0.39
57636	6	0.291	7.39	0.015	0.39

Coax Cable



Availability

A. 100 ft (30.5 m)
B. 500 ft (152 m)
C. 500 ft (152 m) boxed
D. 1,000 ft (305 m)
E. 1,000 ft (305 m) boxed
F. 2,000 ft (610 m)
G. Bulk, cut to length
(Minimums may apply)

Coax and Twinax Cable

For a complete range of 50-, 75-, 93-, and 100-Ohm coaxial and twinaxial, we offer a wide range of insulations and jackets meeting the requirements of military specifications and regulatory agencies, such as UL and CSA.

For broadcast-quality video transmission, our precision video cables use FEP dielectrics to achieve low capacitance, high velocities of propagation, and tight tolerances for maximum signal integrity.

Key to Abbreviations

A/P	**Aluminum/polyester**
A/P/A	**Aluminum/polyester/aluminum**
BC	**Bare copper**
BCW	**Bare copper-coated steel**
FEP	**Fluorinated ethylene propylene**
HDPE	**High-density polyethylene**
PE	**Polyethylene**
PP	**Polypropylene**
PTFE	**Polytetrafluoroethylene**
PVC	**Polyvinyl chloride**
PVDF	**Polyvinylidene fluoride**
SCW	**Silver-coated, copper-coated steel**
SPC	**Silver-plated copper**
SR-PVC	**Semi-rigid PVC**
TC	**Tinned copper**

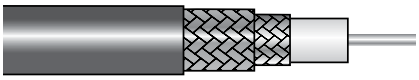
50-Ohm Transmission and Computer Cables

RG-55B/U, RG-58/U, RG-58A/U, and RG-58C/U Coaxial Cables

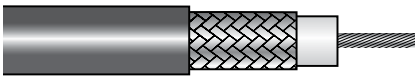
Part No.	Center Conductor			Dielectric		Shield Material, Coverage	Jacket	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9058	20 (0.52)	Solid	BC	PE	0.116 (2.95)	TC Braid, 80%	Black Type I PVC	0.195 (4.95)
	Specifications: UL AWM 1354, JAN-C-17A/RG-58/U • Availability: D, G							
9058A	20 (0.48)	19/0.0071 (19 x 0.18)	TC	PE	0.116 (2.95)	TC Braid, 95%	Black Type I PVC	0.195 (4.95)
	Specifications: JAN-C-17A/RG-58/U Type • Availability: A, B, C, D, E							
9058AC	20 (0.48)	19/0.0071 (19 x 0.18)	TC	PE	0.116 (2.95)	TC Braid, 95%	Black Type I PVC	0.195 (4.95)
	Specifications: CL2 • JAN-C-17A/RG-58/U Type • Availability: A, B, D, E							
9058C	20 (0.48)	19/0.0072 (19 x 0.18)	TC	PE	0.116 (2.95)	TC Braid, 95%	Black Type IIA PVC	0.195 (4.95)
	Specifications: CL2 • JAN-C-17A/RG-58/U • Availability: A, B, D, E							
9058X	20 (0.52)	Solid	BC	PE	0.116 (2.95)	TC Braid, 95%	Black Type I PVC	0.195 (4.95)
	Specifications: CL2 • UL AWM 1354, UL CL2 JAN-C-17A/RG-58/U • Availability: A, B, C, D, E							
9158S	20 (0.52)	Solid	BC	FEP	0.107 (2.72)	TC Braid, 95%	Black FEP	0.159 (4.04)
	Specifications: UL CL2P, CSA CMP FT6, MIL-DTL-17/28 RG-58/U Type • Availability: B, D							
M4213	20 (0.48)	19/0.0072 (19 x 0.18)	TC	PE	0.116 (2.95)	TC Braid, 94%	Black Type IIA PVC	0.195 (4.95)
	Specifications: UL CL2P, CSA CMP FT6, MIL-DTL-17/28 RG-58/U Type • Availability: D, G							
M4219	20 (0.48)	19/0.0071 (19 x 0.18)	TC	PE	0.117 (2.97)	TC Braid, 91%	Black Type I PVC	0.203 (5.16)
	Specifications: UL CM, CSA CM, JAN-C-17A/RG-58A/U Type •Availability: A, D, E							
9848	18 (0.82)	Solid	BC	FoamPE	0.116 (2.95)	TC Braid, 95%	Black Type I PVC	0.195 (4.95)
	Specifications: UL AWM 1354, MIL-DTL-17/28 (7 x 0.32)B RG 58/U Type • Availability: A, D, E							

RoHS Compliant

Coax Cable



50-Ohm Transmission and Computer Cables								
RG-55B/U Coaxial Cables								
Part No.	**Center Conductor**			**Dielectric**		**Shield Material, Coverage**	**Jacket**	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9055B	20 (0.52)	Solid	SPC	PE	0.116 (2.95)	Dbl TC Braid, 95%	Black PE	0.201 (5.11)
	Specifications: MIL-DTL-17D/26A RG-55B/U • Availability: A, B, D							



50-Ohm Transmission and Computer Cables								
RG-8/U and RG-8A/U Type Coaxial Cables								
Part No.	**Center Conductor**			**Dielectric**		**Shield Material, Coverage**	**Jacket**	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9008	13 (2.90)	7/21 (7 x 0.72)	BC	PE	0.285 (7.24)	BC Braid, 94%	Black Type I PVC	0.405 (10.29)
	Specifications: JAN-C-17A/RG-8/U • Availability: A, B, D							
M4201	13 (2.90)	7/21 (7 x 0.72)	BC	PE	0.285 (7.24)	BC Braid, 95%	Black Type IIA PVC	0.405 (10.29)
	Specifications: UL AWM 1354, UL CMX, CSA CMX, MIL-DTL-17D/3A RG-8A/U • Availability: D, G							
M4206	11 (4.60)	7/19 (7 x 0.91)	BC	Foam PE	0.285 (7.24)	BC Braid, 96%	Black PVC	0.403 (10.24)
	Specifications: UL AWM 1354, UL CM, CSA CM, MIL-DTL-17/RG-8/U Type • Availability: D, G							

RoHS Compliant

Coax Cable



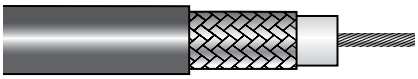
50-Ohm Transmission and Computer Cables

RG-142B/U, RG-174 Type, RG-178B/U, RG-188A/U, RG-196A/U, RG-213 Type, RG-214 Type, RG-217/U, RG-223/U, RG-316/U Coaxial Cables

Part No.	Center Conductor			Dielectric		Shield Material, Coverage	Jacket	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9178B	30 (0.05)	7/38 (7 x 0.10)	SCW	PTFE	0.034 (0.86)	SPC Braid, 94%	Natural Tan FEP	0.071 (1.80)
	Specifications: RG-142B/U, RG-174 Type, RG-178B/U, RG-188A/U, RG-196A/U, RG-213 Type, RG-214 Type, RG-217/U, RG-223/U, RG-316/U Coax Cable •Availability: A, B, D, G							
9196A	30 (0.05)	7/38 (7 x 0.10)	SCW	PTFE	0.034 (0.86)	SPC Braid, 94%	Natural PTFE Tape	0.075 (1.91)
	Specifications: RG-142B/U, RG-174 Type, RG-178B/U, RG-188A/U, RG-196A/U, RG-213 Type, RG-214 Type, RG-217/U, RG-223/U, RG-316/U Coax Cable • Availability: A, B, D, G							
9174	26 (0.14)	7/34 (7 x 0.16)	BCW	PE	0.060 (1.52)	TC Braid, 85%	Black or Red Type I PVC	0.102 (2.59)
	Specifications: UL AWM 1354, MIL-DTL-17D/119F RG-174/U • Availability: D, G							
9188A	25 (0.16)	7/0.0067 (7 x 0.17)	SCW	PTFE	0.060 (1.52)	SPC Braid, 94%	White PTFE Tape	0.105 (2.67)
	Specifications: MIL-DTL-17/69B RG-188A/U • Availability: A, B, D, G							
9316	25 (0.16)	7/0.0067 (7 x 0.17)	SCW	PTFE	0.060 (1.52)	SPC Braid, 94%	Natural Tan FEP	0.098 (2.49)
	Specifications: AWM 1971, CSA CMX FT4, MIL-DTL-17 M17/113 RG-316 •Availability: D, G							
9223	19 (0.62)	Solid	SPC	PE	0.116 (2.95)	Dbl SPC Braid, 95%	Black Type IIA PVC	0.212 (5.38)
	Specifications: MIL-DTL-17D/84B RG-223/U • Availability: D, G							
M4251	19 (0.69)	Solid	SCW	PTFE	0.116 (2.95)	Dbl SPC Braid, 95%	Natural Tan FEP	0.195 (4.95)
	Specifications: MIL-DTL-17/RG-142B/U • Availability: A, B, D, G							
9213	13 (3.11)	7/0.0296 (7 x 0.75)	BC	PE	0.285 (7.24)	BC Braid, 96%	Black Type IIA PVC	0.405 (10.29)
	Specifications: MIL-DTL-17/74A RG-213 Type • Availability: D, G							
9214	13 (3.11)	7/0.0296 (7 x 0.75)	SPC	PE	0.285 (7.34)	Dbl SPC Braid, 95%	Black Type IIA PVC	0.425 (10.80)
	Specifications: AWM 1354, MIL-DTL-17/75D RG-214/U • Availability: A, B, D, G							
9217	10 (5.70)	Solid	BC	PE	0.370 (9.40)	Dbl BC Braid, 95%	Black Type IIA PVC	0.545 (13.84)
	Specifications: MIL-DTL-17D/78A RG-217/U • Availability: A, B, D, G							

RoHS Compliant

Coax Cable



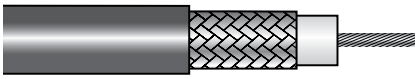


93-Ohm Coaxial Cables

RG-62A/U, RG-22B/U Coaxial Cables

Part No.	Center Conductor			Dielectric		Shield Material, Coverage	Jacket	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9062A	22 (0.32)	Solid	BCW	Semisolid PE	0.146 (3.71)	BC Braid, 95%	Black Type IIA PVC	0.242 (6.15)
	Specifications: UL AWM 1478, MIL-DTL-17/30B RG-62A/U • Availability: A, B, D, E, F							
9062AC	22 (0.32)	Solid	BCW	Semisolid PE	0.146 (3.71)	BC Braid, 95%	Black Type IIA PVC*	0.242 (6.15)
	Specifications: UL AWM 1478, UL CL2, CSA CMH, MIL-DTL-17/30B RG-62A/U •Availability: A, B, D, E, F							

*Also available in white, green, blue, orange, yellow, and slate.



95-Ohm Coaxial Cable

RG-180B/U Coaxial Cable

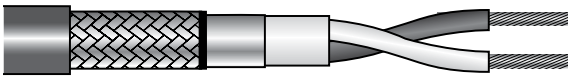
Part No.	Center Conductor			Dielectric		Shield Material, Coverage	Jacket	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9180B	30 (0.05)	7/38 (7 x 0.10)	SCW	PTFE	0.102 (2.59)	SPC Braid, 91%	Natural Tan FEP	0.141 (3.58)
	Specifications: MIL-DTL-17/RG-180B/U • Availability: A, B, D, G							

*For identification, one conductor includes a single tinned copper strand.

RoHS Compliant

Coax Cable





Twinax Cables

78-Ohm Twinax Cables

Part No.	Center Conductor			Dielectric		Shield Material, Coverage	Jacket	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9888C	22 (0.35)	7/30 (7 x 0.25)	TC	White and Blue HDPE	0.056 (1.42)	TC Braid, 85%	Apple Smoke Slate PVC	0.184 (4.67)
	Specifications: UL AWM 2726, UL CM, CSA CMG FT4 • Availability: D, E							
9108	20 (0.56)	7/28 (7 x 0.32)	TC	Blue and Clear FEP	0.074 (1.88)	TC Braid, 95%	Blue FEP	0.198 (5.03)
	Specifications: UL CMP, CSA CMP • Availability: B, D							
M4154	20 (0.56)	7/28 (7 x 0.32)	TC	Blue and Clear PE	0.076 (1.93)	A/P Tape TC Braid, 55%	Blue PVC	0.238 (6.05)
	Specifications: UL AWM 2464, UL CM, CSA CM • Availability: A, B, D, G							
M4220	20 (0.56)	7/28 (7 x 0.32)	TC*	Natural PE	0.079 (2.01)	TC Braid, 85%	Black Type II PVC	0.235 (5.97)
	Specifications: MIL-DTL-17/RG-108 Type • Availability: A, B, D, G							

*For identification, one conductor includes a bare copper strand Type IIA

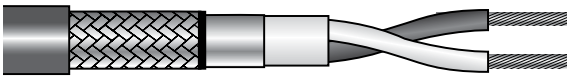
Twinax Cables

100-Ohm Twinax Cables

Part No.	Center Conductor			Dielectric		Shield Material, Coverage	Jacket	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9109	20 (0.56)	7/28 (7 x 0.32)	BC TC	FEP	0.072 (1.83)	TC Braid, 95%	Slate PVDF	0.252 (6.40)
	Specifications: UL CMP, UL CL2P, CSA CMP • Availability: D							
9817	20 (0.56)	7/28 (7 x 0.32)	BC TC	PE	0.083 (2.11)	TC Braid, 85%	Black PVC	0.330 (8.38)
	Specifications: UL AWM 2498 • Availability: A, B, D							
M4271	20 (0.56)	7/28 (7 x 0.32)	BC TC	PE	0.083 (2.11)	A/P Tape TC Braid, 85%	Black PVC	0.330 (8.38)
	Specifications: UL CMG, UL CL2, CSA CMG • Availability: A, B, D, G							

RoHS Compliant

Coax Cable



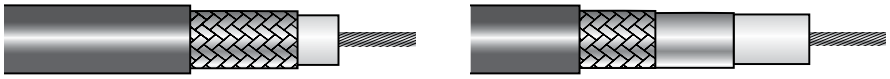
Twinax Cables

124- and 150-Ohm Twinax Cables

Part No.	Center Conductor			Dielectric		Shield Material, Coverage	Jacket	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9823	22 (0.38)	19/34 (19 x 0.16)	TC	Black and Yellow Foam PE	0.120 (3.05)	A/P/A Tape	Black PVC	0.329 (8.36)
	Specifications: UL AWM 2668 • Availability: A, B, D, G							
M4158	16 (1.31)	Solid	BC	Blue and Clear Foam PE	0.161 (4.09)	A/P/A Tape TC Braid, 90%	Black PVC	0.440 (11.18)
	Specifications: UL AWM 2448, UL CMX, CSA CMX • Availability: A, B, D, G							

RoHS Compliant

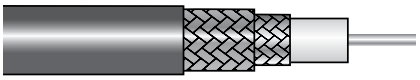
Coax Cable

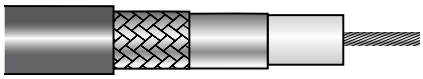


75-Ohm Video Cable								
RG-59/U, RG-59B/U Coaxial Cables								
Part No.	**Center Conductor**			**Dielectric**		**Shield Material, Coverage**	**Jacket**	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9059B	23 (0.26)	Solid	BCW	PE	0.146 (3.71)	BC Braid, 94%	Black Type IIA PVC	0.242 (6.15)
Specifications: UL CL2X, CSA CMH FT1, MIL-DTL-17D/29B RG-59B/U • Availability: A, B, C, D, E								
9159	23 (0.26)	Solid	BCW	FEP	0.132 (3.35)	BC Braid, 95%	Black PVDF	0.190 (4.83)
Specifications: UL CL2P, UL CMP, CSA CMP FT6, MIL-DTL-17/RG-59B/U Type • Availability: D								
9810	23 (0.26)	Solid	BC	PE	0.146 (3.71)	A/P/A Tape TC Braid, 95%	Black Type IIIA PE	0.220 (5.59)
Specifications: MIL-DTL-17/RG-59B/U Type • Availability: A, D								
M4223	23 (0.26)	Solid	BCW	PE	0.146 (3.71)	BC Braid, 94%	Black Type IIA PVC	0.241 (6.12)
Specifications: UL AWM 1354, UL CMX, CSA CMX, MIL-DTL-17D/29B RG-59B/U • Availability: A, B, D								
9059	22 (0.32)	Solid	BCW	PE	0.146 (3.71)	BC Braid, 95%	Black, White, Slate Type I PVC	0.242 (6.15)
Specifications: UL AWM 1354, JAN-C-17A/RG-59/U • Availability: A, B, D								
9059C	22 (0.32)	Solid	BCW	PE	0.146 (3.71)	BC Braid, 95%	Black, Red, Blue, Green, Slate Type I PVC	0.242 (6.15)
Specifications: UL AWM 1354, UL CL2, CSA CMG FT4, JAN-C-17A/RG-59/U • Availability: A, B, C, D, E								
9830	22 (0.32)	Solid	BCW	PE	0.146 (3.71)	BC Braid, 85%	Black Type I PVC	0.242 (6.15)
Specifications: UL AWM 1354, UL CMX, CSA CMX, JAN-C-17A/RG-59/U • Availability: A, B, D								
M4237	22 (0.35)	7/30 (7 x 0.25)	BC	Foam PE	0.146 (3.71)	BC Braid, 95%	Black Type I PVC	0.240 (6.10)
Specifications: UL AWM 1354, UL CM, CSA CMX, JAN-C-17A/RG-59/U • Availability: A, B, D								
9102	20 (0.52)	Solid	BCW	Foam FEP	0.140 (3.56)	A/P/A Tape TC Braid, 94%	Black PVDF	0.212 (5.38)
Specifications: UL CMP, UL CL2P, CSA CMP FT6, MIL-DTL-17/RG-59U Type • Availability: B, D								

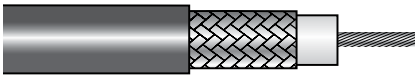
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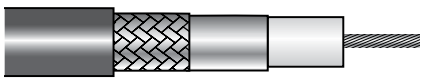
Coax Cable





75-Ohm Video Cable								
RG-6U, RG-6A/U Coaxial Cables								
Part No.	**Center Conductor**			**Dielectric**		**Shield Material, Coverage**	**Jacket**	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9104	18 (0.82)	Solid	BCW	Foam FEP	0.170 (4.32)	A/P Tape TC Braid, 95%	Black PVDF	0.232 (5.89)
	Specifications: UL CMP, UL/CATVP, CSA CMP FT6, MIL-DTL-17/RG-6U Type • Availability: B, D							
M4182	18 (0.82)	Solid	BC	Foam PE	0.180 (4.57)	A/P/A Tape TC Braid, 60%	Black Type I PVC	0.270 (6.86)
	Specifications: UL AWM 1354, UL CM, CSA CM, MIL-DTL-17/ RG 6/U Type • Availability: A, B, D							

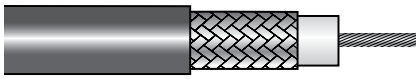




75-Ohm Video Cable								
RG-11A/U Coaxial Cables								
Part No.	**Center Conductor**			**Dielectric**		**Shield Material, Coverage**	**Jacket**	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9011A	18 (0.89)	7/26 (7 x 0.40)	TC	PE	0.285 (7.24)	BC Braid, 95%	Black Type IIA PVC	0.405 (10.29)
	Specifications: UL CL2X, CSA CMH FT1, MIL-DTL-17D/6B RG 11A/U • Availability: A, B, D							
M4208	14 AWG (2.08 mm2)	Solid	BC	Foam PE	0.285 (7.24)	BC Braid, 95%	Black PE	0.405 (10.29)
	Specifications: UL CL2X, CSA CMH FT1, MIL-DTL-17D/6B RG 11A/U • Availability: A, B, D							

RoHS Compliant

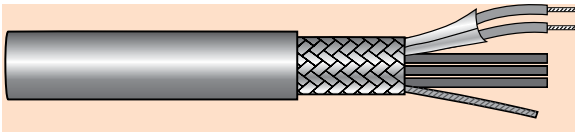
Coax Cable



75-Ohm Video Cables								
RG-179B/U and RG-187A/U Coaxial Cables								
Part No.	Center Conductor			Dielectric		Shield Material, Coverage	Jacket	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9179B	30 (0.05)	7/38 (7 x 0.10)	SCW	PTFE	0.063 (1.60)	SPC Braid, 93%	Natural Tan FEP	0.100 (2.54)
	Specifications: MIL-DTL-17/RG-179B/U • Availability: A, B, D, G							
9187A	30 (0.05)	7/38 (7 x 0.10)	SCW	PTFE	0.063 (1.60)	SPC Braid, 93%	Natural PTFE Tape	0.105 (2.67)
	Specifications: MIL-DTL-17/RG-187A/U • Availability: A, B, D, G							

RoHS Compliant

Coax Cable



Ethernet Transceiver Cables							
Part No.	Pairs				Dielectric		Shield Material, Coverage
	Type	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)	
9852C	Data (3)	22 (0.35)	7/30 (7 x 0.25)	TC	Foam HDPE	0.064 (1.63)	A/P (pairs) A/P/A (overall) TC Braid, 95%
	Data (1)	20 (0.56)	7/28 (7 x 0.32)	TC	SR-PVC	0.058 (1.47)	
	Specifications: UL AWM 2919, UL CM, CSA CMG FT4 • Availability: D						
9853C	Data (3)	20 (0.56)	7/28 (7 x 0.32)	TC	Foam HDPE	0.077 (1.96)	A/P (pairs) A/P (overall) TC Braid, 95%
	Data (1)	20 (0.56)	7/28 (7 x 0.32)	TC	SR-PVC	0.058 (1.47)	
	Specifications: UL AWM 2919, UL CM, CSA CMG FT4 • Availability: D						
9854C	Data (3)	28 (0.08)	7/36 (7 x 0.12)	TC	PP	0.033 (0.84)	A/P (pairs) A/P/A (overall) TC Braid, 90%
	Data (1)	24 (0.23)	7/32 (7 x 0.20)	TC	SR-PVC	0.044 (1.12)	
	Specifications: UL AWM 2919, UL CM, CSA CMG FT4 • Availability: D						

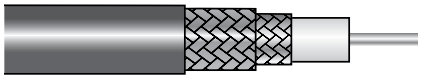
Color Coding

Conductor	9852C, 9853C	9854C
Data 1	Green-Blue	White-Gray
Data 2	Yellow-Orange	Yellow-Orange
Data 3	White-Brown	Green-Blue
Power	Blue-Red	Black-Red

RoHS Compliant

Coax Cable

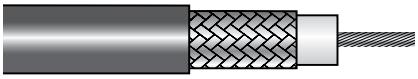
Non-Magnetic Coax Cable
1000 V Braid Shield, FEP, FEP



50-Ohm Non-Magnetic Coax Cables								
Part No.	Center Conductor			Dielectric		Shield Material, Coverage	Jacket	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9849	26 (0.141)	7/34	SPC	FEP	0.056 (1.42)	Non-Magnetic SPC Braid, 95%	FEP	0.100(2.54)
	Availability: A							
9851	30 (0.057)	7/38	SPC	FEP	0.033 (0.84)	Non-Magnetic SPC Braid, 95%	FEP	0.070(1.78)
	Availability: A							

Micro Coaxial Cable

30 V Braid or Spiral Shield, PFA, PFA



UL AWM 1745

Micro Coax Cable

Alpha Wire's Micro Coaxial Cable is a great space-saving solution that makes routing easier in applications such as medical probes, endoscopy systems, oximetry systems, industrial inspection, and more.

Operating Temperature

- 9432, 9434, 9446, 9448, 9459: -70°C to 200°C
  (Silver-plated copper alloy)
- 9436, 9438, 9440, 9442, 9444: -70°C to 150°C
  (Tinned copper alloy)

Conductor Color Coding

- 9432: Nature
- 9446: Yellow
- Others: Black

Materials

- Silver-plated or tinned copper alloy center conductor
- PFA dielectric
- White PFA jacket
- Silver-plated or tinned copper alloy braid or spiral shield, 90% coverage minimum

Availability

328 ft (100 m)

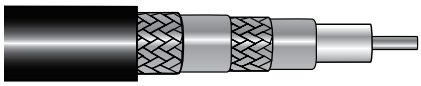
Micro Coax Cable

Part No.	Center Conductor			Dielectric		Shield Material, Coverage	Jacket	
	AWG (mm^2)	Stranding (mm)	Material	Material	Dia., In. (mm)		Material	Dia., In. (mm)
9432	32 (0.032)	7/40	Silver-Plated Copper	Nature PFA	0.0083 (0.21)	Silver-Plated Copper, Braid Shield, 90%	White PFA	0.005 (0.127)
9434	34 (0.025)	7/42	Silver-Plated Copper	Black PFA	0.0068 (0.17)	Silver-Plated Copper, Braid Shield, 90%	White PFA	0.005 (0.127)
9436	36 (0.013)	7/44	Tinned Copper Alloy	Black PFA	0.0045 (0.11)	Tinned Copper, Spiral Shield, 90%	White PFA	0.0018 (0.046)
9438	38 (0.008)	7/46	Tinned Copper Alloy	Black PFA	0.0035 (0.089)	Tinned Copper, Spiral Shield, 90%	White PFA	0.0016 (0.041)
9440	40 (0.005)	7/48	Tinned Copper Alloy	Black PFA	0.0028 (0.071)	Tinned Copper, Spiral Shield, 90%	White PFA	0.0012 (0.030)
9442	42 (0.003)	7/50	Silver Copper Alloy	Black PFA	0.0024 (0.061)	Tinned Copper, Spiral Shield, 90%	White PFA	0.0012 (0.030)
9444	44 (0.002)	7/52	Silver Copper Alloy	Black PFA	0.0019 (0.048)	Tinned Copper, Spiral Shield, 90%	White PFA	0.0012 (0.030)
9446	46 (0.0013)	7/54	Silver Copper Alloy	Yellow PFA	0.0013 (0.033)	Silver-Plated Copper, Spiral Shield, 90%	White PFA	0.0009 (0.023)
9448	48 (0.0008)	7/56	Silver Copper Alloy	Black PFA	0.0011 (0.028)	Silver-Plated Copper, Spiral Shield, 90%	White PFA	0.0009 (0.023)
9450	50 (0.0005)	7/58	Silver Copper Alloy	Black PFA	0.0008 (0.02)	Silver-Plated Copper, Spiral Shield, 90%	White PFA	0.0009 (0.023)

RoHS Compliant

Data and Bus Cable

ControlNet RG-6/U Coaxial Cable
300 V Double Braid and Foil Shielded, Foam PE, PVC



Part No.	Nominal Diameter		Center Conductor		Nominal Impedance (ohms)
	Inch	mm	AWG	mm²	
6458	0.298	7.57	18	0.82	75

UL CL2R
UL CMR
CSA CMG FT4

Operating Temperature

- -30°C to 75°C

Materials

- Solid bare Copperweld conductor
- Foam polyethylene insulation
- Shielding: double braid and foil
  Foil +60% aluminum braid +
  foil +40% aluminum braid
- Black PVC jacket

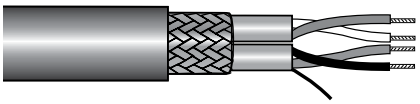
Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Nominal Attenuation		
Frequency (MHz)	Attenuation, Nom.	
	dB/100 ft	dB/100 m
1	0.35	1.1
2	0.38	1.2
5	0.45	1.5
10	0.59	1.9
20	0.86	2.8
50	1.37	4.5
100	1.97	6.5
200	2.82	9.3
300	3.48	11.4
400	4.04	13.3

Data and Bus Cable

DeviceNet, Power and Data, Class 2
300 V Overall Braid and Individual Foil Shield, Multipair, PVC/PE, PVC



Part No.	Type	Pairs	Nominal Diameter	
			Inch	mm
6451	Thick	1 Power: 15 AWG (1.75 mm²), 19/0.0135 (19 x 0.35 mm) stranding 1 Data: 18 AWG (0.96 mm²), 19/30 (19 x 0.25 mm) stranding	0.480	12.19
6452	Thin	1 Power: 22 AWG (0.38 mm²), 19/34 (19 x 0.16 mm) stranding 1 Data: 24 AWG (0.24 mm²), 19/36 (19 x 0.13 mm) stranding	0.280	7.11

UL CMG
UL PLTC-ER (Thick)
UL CL2 (Thin)
CSA CMG FT4
CSA AWM I/II A/B FT4

Operating Temperature

- 0°C to 80°C (dynamic)
- -20°C to 75°C (static)

Conductor Color Coding

- Black-red power
- Blue-white data

Materials

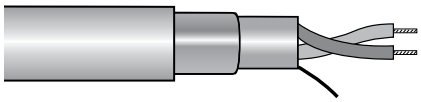
- Tinned copper conductors
- Each pair individually foil shielded
- PVC insulation (power pair)
- Foam HDPE insulation (data pair)
- 65% tinned copper braid overall
- Slate PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Data and Bus Cable

Fieldbus Types A and B
300 V Foil Shield, Single-Pair, PO, PVC



Part No.	Fieldbus Type	Pairs	Conductor		Stranding		Nominal Diameter	
			AWG	mm²	AWG	mm	Inch	mm
6459	A	1	18	0.90	7/26	7 x 0.40	0.253	6.43
6460	B	1	22	0.33	7/0.0096	7 x 0.24	0.196	4.97

UL PLTC-ER
UL CM
UL ITC
CSA CM

Operating Temperature

- -30°C to 105°C

Conductor Color Coding

- Blue-orange

Materials

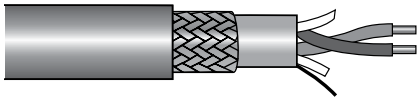
- Tinned copper conductors
- Polyolefin insulation
- Foil shield
- Orange PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Data and Bus Cable

300 V Foil + Braid Shield, Single-Pair, PE, PVC



Part No.	Pairs	Conductor		Stranding		Nominal Diameter	
		AWG	mm²	AWG	mm	Inch	mm
6462	1	22	0.32	Solid		0.315	8.00
6463	1	22	0.35	7/30	7 x 0.25	0.315	8.00

UL AWM 20201 (6462 only)
UL PLTC
UL CMG
CSA CMG FT4

Operating Temperature

- -30°C to 75°C (PLTC, CMG)
- -30°C to 60°C (AWM)

Conductor Color Coding

- Red-green

Materials

- Tinned solid or stranded copper conductors
- Foam high-density polyethylene insulation
- Foil + 65% tinned copper braid shield
- Purple PVC jacket

Availability

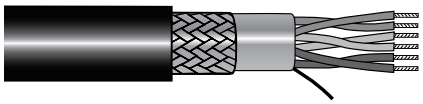
100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

RoHS Compliant

Data and Bus Cable

RS-485

300 V Foil + Braid Shield, PE, PVC



UL CM, CMG
UL TC, PLTC
CSA CM, CMG FT1

Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- Chart M (page 501), except 6454

Materials

- Tinned copper conductors
- Foam high-density polyethylene insulation
- Foil + 65% tinned copper braid shield
- Black PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)

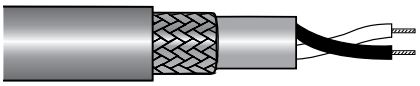
Part No.	Pairs	Nominal Diameter		Insulation Thickness		Jacket Thickness	
		Inch	mm	Inch	mm	Inch	mm
6453	1	0.284	7.21	0.028	0.71	0.042	1.07
6454*	1.5	0.300	7.62	0.032	0.81	0.042	1.07
6455	2	0.408	10.36	0.024	0.61	0.053	1.35
6456	3	0.414	10.52	0.022	0.56	0.053	1.35
6457	4	0.448	11.38	0.022	0.56	0.053	1.35

*Conductor color coding: white/orange-orange/white pair, white-blue single conductor.

Data and Bus Cable

Industrial Twinax

600 V Foil + Braid Shield, Single-Pair, PP, PVC



Part No.	Pairs	Conductor		Stranding		Nominal Diameter	
		AWG	mm²	AWG	mm	Inch	mm
6450	1	18	0.90	7/26	7 x 0.40	0.324	8.23

UL TC, PLTC, ITC
UL CMG
CSA CMG FT4

Operating Temperature

- -40°C to 75°C

Conductor Color Coding

- Blue-white

Materials

- Tinned stranded copper conductors
- Flame-resistant polypropylene insulation
- Foil + 55% tinned copper braid shield
- Blue PVC jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Cordsets

Electronic Line Cords
125 V Foil Shield, 3-Conductor, PVC, PVC

IEC C-13 Connector



IEC C-13 Right-Angle Connector



SJT
UL 62 and 817
CSA C22.2 No. 21 and 49

Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- Blue, brown, green/yellow (ICC)

Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield (where specified)
  Foil facing inward
  20 AWG (0.56 mm^2) tinned copper drain wire
- PVC jacket, black

Availability

25-piece packages
(Minimums may apply)

PVC, Unshielded, Type SJT
Leads: Jacket Stripped 1.5" (38 mm). Leads Stripped 5/8" (16 mm)

Part No.	Cord Length		Wire Size		Stranding		Nominal Diameter		Power Rating	
	Ft	m	AWG	mm^2	AWG	mm	Inch	mm	Watts	Amps
511	6' 7"	2	18	0.82	41/34	41 x 0.16	0.300	7.62	1250	10
512	9' 10"	3	18	0.82	41/34	41 x 0.16	0.300	7.72	1250	10
513	6' 7"	2	16	1.32	65/34	65 x 0.16	0.331	8.41	1625	13

PVC, Shielded, Right Angle, Type SJT
Leads: Jacket Stripped 1.5" (38 mm). Leads Stripped 5/8" (16 mm)

Part No.	Cord Length		Wire Size		Stranding		Nominal Diameter		Power Rating	
	Ft	m	AWG	mm^2	AWG	mm	Inch	mm	Watts	Amps
521F	6' 7"	2	14	2.08	41/30	41 x 0.25	0.380	9.65	1825	15

Cordsets

Detachable Power Supply Cords
125 V Unshielded or Foil Shield, 3-Conductor, PVC, PVC

NEMA 5-15P Connector — IEC C-13 Connector



NEMA 5-15P Connector — IEC C-13 Right-Angle Connector



SJT, SVT
UL 62 and 817
CSA C22.2 No. 21 and 49

Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- Blue, brown, green/yellow (ICC)
- Black, white, green or green/yellow (NEC)

Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield
  Foil facing inward
  Tinned copper drain wire
  (see tables for size)
- Black PVC jacket

Availability

25-piece packages
(Minimums may apply)

Unshielded, Straight, Types SVT

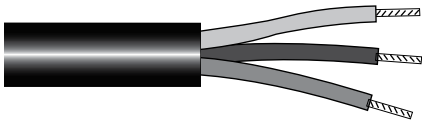
Part No.	Cord Length		Wire Size		Stranding		Nominal Diameter		Power Rating		Color Code
25 pc	Ft	m	AWG	mm²	AWG	mm	Inch	mm	Watts	Amps	
535	7' 5"	2.3	18	0.82	41/34	41 x 0.16	0.250	6.35	1250	10	NEC

Shielded, Straight, Types SVT and SJT

Part No.	Cord Length		Wire Size		Stranding		Drain Wire	Nominal Diameter		Power Rating		Color Code
25 pc	Ft	m	AWG	mm²	AWG	mm		Inch	mm	Watts	Amps	
							SVT					
547F	6' 7"	2	18	0.82	41/34	41 x 0.16	22 AWG (0.35mm²) 7/30 (7 x 0.25 mm)	0.260	6.60	1250	10	ICC
							SJT					
536F	9' 10"	3	14	2.08	41/30	41 x 0.25	14 AWG (2.08 mm²), 41/30 (41 x 0.25 mm)	0.400	10.16	1875	15	ICC

Cordsets

300 V and 600 V, Unshielded, Multiconductor Cordage, Rubber, CPE



SVO, SJOW, SOOW
UL 62
CSA C22.2 No. 49
CSA FT2

Operating Temperature

- -40°C to 90°C

Conductor Color Coding

- Black, white (2 conductors)
- Black, white, green (3 conductors)
- Black, white, green, red (4 conductors)

Materials

- Stranded bare copper conductors
- Rubber insulation
- Black chlorinated polyethylene (CPE) jacket

Availability

250 ft (76.2 m)
(Minimums may apply)

Part No.	Wire Size		Stranding		Insulation Thickness		Jacket Thickness		Cable Dimension	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	Inch	mm
				Type SVO, 300 V						
1931	18	0.82	41/34	41 x 0.16	0.017	0.43	0.034	0.86	0.236	5.99
				Type SJOW, 300 V						
1932	18	0.81	16/30	16 x 0.25	0.032	0.81	0.034	0.86	0.294	7.47
1933	16	1.32	26/30	26 x 0.25	0.032	0.81	0.034	0.86	0.320	8.13
				Type SOOW, 600 V						
1934	18	0.81	16/30	16 x 0.25	0.031	0.79	0.065	1.65	0.356	9.04
1936	14	2.08	41/30	41 x 0.25	0.048	1.22	0.085	2.16	0.516	13.11

CPE Jacket, 3-Conductor Cords, Types SJOW and SOOW

Part No.	Wire Size		Stranding		Insulation Thickness		Jacket Thickness		Cable Dimension	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	Inch	mm
				Type SJOW, 300 V						
1932/3	18	0.81	16/30	16 x 0.25	0.032	0.81	0.034	0.86	0.330	7.85
1933/3	16	1.32	26/30	26 x 0.25	0.032	0.81	0.034	0.86	0.358	8.64
				Type SOOW, 600 V						
1934/3	18	0.81	16/30	16 x 0.25	0.031	0.79	0.065	1.65	0.373	9.47
1935/3	16	1.32	26/30	26 x 0.25	0.031	0.79	0.065	1.65	0.401	10.19
1936/3	14	1.08	41/30	41 x 0.25	0.048	1.22	0.085	2.16	0.543	13.79
1937/3	12	3.29	65/30	65 x 0.25	0.050	1.27	0.100	2.54	0.623	15.82
1938/3	10	5.32	105/30	105 x 0.25	0.050	1.27	0.100	2.54	0.642	16.31

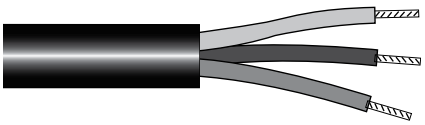
CPE Jacket, 4-Conductor Cords, Type SOOW, 600 V

Part No.	Wire Size		Stranding		Insulation Thickness		Jacket Thickness		Cable Dimension	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	Inch	mm
1934/4	18	0.81	16/30	16 x 0.25	0.031	0.79	0.065	1.65	0.400	10.16
1936/4	14	2.08	41/30	41 x 0.25	0.048	1.22	0.085	2.16	0.589	14.96
1937/4	12	3.29	65/30	65 x 0.25	0.050	1.27	0.100	2.54	0.674	17.12
1938/4	10	5.32	105/30	105 x 0.25	0.050	1.27	0.100	2.54	0.735	18.67

UL LISTED CSA RoHS Compliant

Cordsets

300 V Unshielded and Foil Shield, 3-Conductor, PVC, PVC



SJT, SVT
UL 62
CSA C22.2 No. 49

Operating Temperature

- -30°C to 105°C

Conductor Color Coding

- Black, white, green/yellow (NEC)
- Blue, brown, green/yellow (IEC 60446)

Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield
  Foil facing inward
  Tinned copper drain wire one even AWG size smaller than conductor
- Black or slate PVC jacket

Availability

250 ft (76.2 m)
(Minimums may apply)

3-Conductor Cords (Unshielded)

Part No.	Wire Size		Stranding		Insulation Thickness		Jacket Thickness		Cable Dimension		Color Code
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	Inch	mm	
					SJT						
1952/3T	18	0.82	41/34	41 x 0.16	0.032	0.81	0.032	0.81	0.309	7.85	NEC
1953/3T	16	1.32	65/34	65 x 0.16	0.032	0.81	0.032	0.81	0.335	8.51	NEC
					SVT						
1951/3T	18	0.82	41/34	41 x 0.16	0.016	0.41	0.032	0.81	0.241	6.12	NEC
					SJT						
1941/3*	18	0.82	41/34	41 x 0.16	0.032	0.81	0.032	0.81	0.310	7.87	IEC
1942/3*	16	1.32	65/34	65 x 0.16	0.032	0.81	0.032	0.81	0.336	8.53	IEC
1943/3*	14	2.08	41/30	41 x 0.25	0.032	0.81	0.032	0.81	0.368	9.35	IEC

*Black jacket only.

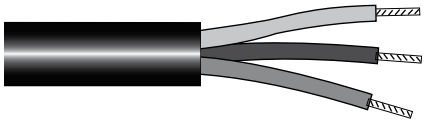
3-Conductor Cords (Foil Shield)

Part No.	Wire Size		Stranding		Insulation Thickness		Jacket Thickness		Cable Dimension		Color Code
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	Inch	mm	
					SJT						
1941/3F*	18	0.82	41/34	41 x 0.16	0.032	0.81	0.032	0.81	0.314	7.98	IEC
1942/3F*	16	1.32	65/34	65 x 0.16	0.032	0.81	0.032	0.81	0.340	8.64	IEC
1943/3F*	14	2.08	41/30	41 x 0.25	0.032	0.81	0.032	0.81	0.372	9.45	IEC

*Black jacket only.

Cordsets

300V, Unshielded, 3-Conductor Cordage, Rubber, CPE



SJ, SV
UL 62
CSA C22.2 No. 49

Operating Temperature

- -30°C to 90°C

Conductor Color Coding

- Black, white, green

Materials

- Stranded bare copper conductors
- Rubber insulation
- Black chlorinated polyethylene jacket

Availability

250 ft (76.2 m)
(Minimums may apply)

3-Conductor Cords (Unshielded)

Part No.	Wire Size		Stranding		Insulation Thickness		Jacket Thickness		Cable Dimension	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	Inch	mm
					SJ					
1953/3	16	1.32	26/30	26 x 0.25	0.032	0.81	0.034	0.86	0.340	8.64
					SV					
1951/3	18	0.82	41/34	41 x 0.16	0.017	0.43	0.036	0.91	0.256	6.50

Cordsets

Retractile Communication Cords
300 V Unshielded, Multiconductor, PP, PVC



UL AWM 2464

Operating Temperature
- -20°C to 80°C

Conductor Color Coding
- See table

Materials
- Stranded tinned copper conductors
- Polypropylene insulation
- Black PVC Jacket

Availability
1-piece packages
(Minimums may apply)

Unshielded, 1 A
Cord Length: 1 ft (0.30 m) Retracted, 5 ft (1.5 m) Extended

23 AWG (0.27 mm²)

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 12" (304 mm)

Part No.	Conductors	Coil Diameter		Jacket Diameter	
		Inch	mm	Inch	mm
702R	2	0.688	17.48	0.190	4.83
703R	3	0.688	17.48	0.200	5.08
704R	4	0.750	19.05	0.220	5.59
705R	5	0.875	22.23	0.230	5.84
706R	6	0.875	22.23	0.230	5.84
707R	7	0.875	22.23	0.250	6.35

Unshielded, 1 A
Cord Length: 2 ft (0.61 m) Retracted, 10 ft (3.0 m) Extended

23 AWG (0.27 mm²)

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 6" (152 mm)

Part No.	Conductors	Coil Diameter		Jacket Diameter	
		Inch	mm	Inch	mm
702/2R	2	0.625	15.88	0.180	4.57
704/2R	4	0.688	17.48	0.200	5.08
705/2R	5	0.750	19.05	0.215	5.46
706/2R	6	0.875	22.23	0.230	5.84
707/2R	7	0.875	22.23	0.230	5.84

Unshielded, 1 A
Cord Length: 3 ft (0.91 m) Retracted, 15 ft (4.5 m) Extended

23 AWG (0.27 mm²)

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 6" (152 mm)

Part No.	Conductors	Coil Diameter		Jacket Diameter	
		Inch	mm	Inch	mm
704/3R	4	0.688	17.48	0.200	5.08
706/3R	6	0.875	22.23	0.230	5.84
707/3R	7	0.875	22.23	0.230	5.84

RoHS Compliant

Cordsets

Retractile Communication Cords
300 V Unshielded, Multiconductor, PP, PVC



UL AWM 2464

Operating Temperature

- -20°C to 80°C

Conductor Color Coding

- See table

Materials

- Stranded tinned copper conductors
- Polypropylene insulation
- Black PVC Jacket

Availability

1-piece packages
(Minimums may apply)

Unshielded, 1 A
Cord Length: 4 ft (1.2 m) Retracted, 20 ft (6.1 m) Extended

23 AWG (0.27 mm²)

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 6" (152 mm)

Part No.	Conductors	Coil Diameter		Cord Diameter	
		Inch	mm	Inch	mm
706/4R	6	0.875	22.23	0.230	5.84
708/4R	8	0.875	22.23	0.250	6.35
710/4R	10	0.938	23.83	0.280	7.11
712/4R	12	1.000	25.40	0.290	7.37
715/4R	15	1.063	27.00	0.310	7.87

Conductor Color Coding

1 Black	6 Blue	11 Violet
2 White	7 Yellow	12 Tan
3 Red	8 Brown	13 White/Black
4 Green	9 Slate	14 Red/Black
5 Orange	10 Pink	15 Green/Black

RoHS Compliant

Cordsets

Retractile Communication Cords
300 V Unshielded, Multiconductor, Rubber, CR



UL AWM 4182, 4194, 4195, 4196, 4197, 4198

Operating Temperature
- -20°C to 60°C

Conductor Color Coding
- See table

Materials
- Stranded tinned copper conductors
- Rubber insulation
- Black neoprene jacket

Availability
1-piece packages
(Minimums may apply)

Unshielded, 1 A
Cord Length: 2 ft (0.61 m) Retracted, 10 ft (3.0 m) Extended

23 AWG (0.27 mm²)

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness:
Lead length, each end: 6" (152 mm)

Part No.	Conductors	Coil Diameter		Cord Diameter		AWM
		Inch	mm	Inch	mm	
681/2	3	0.813	20.65	0.220	5.59	4195
682/2	4	0.938	23.83	0.250	6.35	4196
684/2	6	1.125	28.58	0.310	7.87	4198

Unshielded, 1 A
Cord Length: 4 ft (1.2 m) Retracted, 20 ft (6.1 m) Extended

23 AWG (0.27 mm²)

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness:
Lead length, each end: 6" (152 mm)

Part No.	Conductors	Coil Diameter		Cord Diameter		AWM
		Inch	mm	Inch	mm	
680/4	2	0.743	18.87	0.215	5.46	4194
681/4	3	0.753	19.13	0.220	5.59	4195
682/4	4	0.875	22.23	0.250	6.35	4196
683/4	5	1.008	25.60	0.285	7.24	4197
684/4	6	1.110	28.19	0.305	7.75	4198

Conductor Color Coding

1 Black	4 Green
2 White	5 Blue
3 Red	6 Yellow

RoHS Compliant

Cordsets

Retractile Communication Cords
300 V Unshielded, Multiconductor, Rubber, Rubber



SO, SVO, SJO
UL 62
CSA C22.2 No. 49

Operating Temperature

- -20°C to 90°C

Conductor Color Coding

- 1 Black, 2 White, 3 Red, 4 Green

Materials

- Stranded bare copper conductors
- Rubber insulation
- Black rubber jacket

Availability

1-piece packages
(Minimums may apply)

Types SV and SJO
Cord Length: 1 ft (0.30 m) Retracted, 5 ft (1.5 m) Extended

18 AWG (0.82 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)
Lead length, each end: 6" (152 mm)

Part No.	Conductors	Coil Diameter		Cord Diameter	
		Inch	mm	Inch	mm
		SVO			
725	2	0.895	22.73	0.220	5.59
		SJO			
727	3	1.263	32.08	0.33	9.4

Type SVO
Cord Length: 2 ft (0.61 m) Retracted, 10 ft (3.0 m) Extended

18 AWG (0.82 mm²)

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)
Lead length, each end: 6" (152 mm)

Part No.	Conductors	Coil Diameter		Cord Diameter	
		Inch	mm	Inch	mm
760/2	3	1.000	25.40	0.27	7.0

UL LISTED RoHS Compliant

Cordsets

Retractile Communication Cords
300 V Unshielded, Multiconductor, PVC, PVC



UL AWM 20013

Operating Temperature

- -20°C to 60°C

Conductor Color Coding

- 1 Black, 2 White, 3 Red, 4 Green

Materials

- Stranded tinned copper conductors
- PVC insulation
- Black PVC Jacket

Availability

1-piece packages
(Minimums may apply)

Cord length: 2 ft (0.61 m) retracted, 10 ft (3.0 m) extended

28 AWG (0.09 mm²)

Stranding: 19/40 (19 x 0.08 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 6 (152 mm)

Part No.	Conductors	Coil Diameter		Cord Diameter	
		Inch	mm	Inch	mm
651	**2**	0.471	11.96	0.135	3.43
652	**4**	0.592	15.04	0.150	3.81

RoHS Compliant

Pro-Met® 470 PVC Flexible PVC Control Cable

300 V Ultimate Performance in Industrial Environments



Industry Challenge

Original equipment manufacturers are continuously looking to improve the reliability of their machines in increasingly challenging environments. Dependable cables are essential to a well-performing system, with flexibility and oil resistance as key priorities.

Alpha's Solution

Pro-Met 470 is a line of flexible industrial cable impervious to oils and resistant to UV damage. Alpha's uncompromising standards provide consistency and uniformity in every cable.

Compliant with following International standards:

VDE CE RoHS Compliant

Key Features

- Size: 0.5 mm^2 - 25 mm^2
- 300/500 V rating
- Grey (RAL 7001) or transparent jacket
- Unshielded or tinned copper braid shielded
- Custom sizes and conductor counts available

Industries

- Food & Beverage
- Medical devices
- Industrial automation
- Commercial electronics
- Automotive
- Defense/aerospace

Applications

- Precision control sensors
- Multi-axis motion control
- Control panels
- Motor speed controls
- Machine cutting tools
- Temperature controllers

	Environmental Requirements							
	High Temp	Low Temp	UV	Oil/Water/ Chemical	Abrasion	Direct Burial	EMI Protection with Braid Shield	Flexible/ Flexing
Pro-Met	●○○	●○○	●●○	●●○	●○○	NR	●●○	●●○

●○○ = Good; ●●○ = Very Good; ●●● = Excellent; NR = Not Recommended

Pro-Met® 470 PVC Flexible PVC Control Cable

300 V Unshielded, Multiconductor, PVC, PVC

Conductor Material	Stranded bare copper (DIN VDE 0295 Class 5)
Insulation Material & Color	Material: PVC (polyvinyl chloride). Color: Black with number coding, one Yellow/Green grounding wire (≥3C)
Jacket Material & Color	Material: PVC (polyvinyl chloride) Color: Grey (RAL7001)
Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
Voltage Rating (Uo/U)	300 / 500 V
Oil Resistance	DIN EN 50290-2-22 (TM54)
Temperature Range	-30 °C to 70 °C (occasional movement) -40 °C to 80 °C (fixed installation)
Bending Radius	10 x OD (occasional movement) 6 x OD (fixed installation)
Other Properties	Good UV resistance, chemical resistance & flexibility

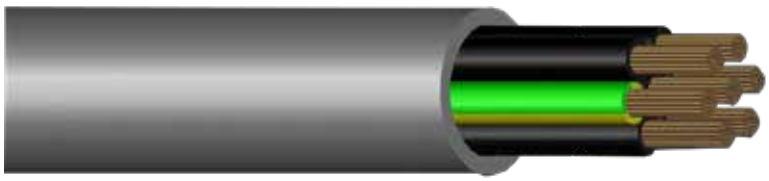
General Reference Standards

DIN VDE 0295, IEC 60228, BS6360
DIN EN 50290-2-22, DIN VDE 0207-363-4-1
DIN EN 50525-2-51 (VDE 0285-525-2-51)
DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
RoHS, REACH & CE Directives

Pro-Met 470YY Unshielded PVC Control Cable

UNSHIELDED CABLE WITH (GY) PROTECTIVE GROUND





Pro-Met® 470 PVC Flexible PVC Control Cable

300 V Unshielded, Multiconductor, PVC, PVC



Grey

Operating Temperature

- –40°C to 80°C (fixed installation)
- –30°C to 70°C (occasional movement)

Conductor Color Coding

- Black with number coding, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors Premium industrial-grade
- PVC insulation
- Premium PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN EN 50525-2-51 (VDE 0285-525-2-51)
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

50 m (GE 433)
100 m (GE 434)
300 m (GE 432)

0.5 mm² (21 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470025YY	2	20/0.177	4.77
470035YY	3	20/0.177	5.08
470045YY	4	20/0.177	5.60
470055YY	5	20/0.177	6.16
470075YY	7	20/0.177	6.75
470095YY	9	20/0.177	8.51
470105YY	10	20/0.177	8.91
470125YY	12	20/0.177	9.23
470145YY	14	20/0.177	9.75
470185YY	18	20/0.177	10.90

0.75 mm² (19 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470027YY	2	30/0.177	5.23
470037YY	3	30/0.177	5.60
470047YY	4	30/0.177	6.16
470057YY	5	30/0.177	6.78
470067YY	6	30/0.177	7.45
470077YY	7	30/0.177	7.45
470097YY	9	30/0.177	9.39
470127YY	12	30/0.177	10.20
470257YY	25	30/0.177	14.30
470417YY	41	30/0.177	18.70

1.0 mm² (17 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470021YY	2	30/0.20	5.58
470031YY	3	30/0.20	5.96
470041YY	4	30/0.20	6.58
470051YY	5	30/0.20	7.25
470071YY	7	30/0.20	7.97
470091YY	9	30/0.20	10.05
470121YY	12	30/0.20	10.91

1.5 mm² (15 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470215YY	2	28/0.25	6.18
470315YY	3	28/0.25	6.61
470415YY	4	28/0.25	7.31
470515YY	5	28/0.25	8.07
470715YY	7	28/0.25	8.87
470915YY	9	28/0.25	11.20
471215YY	12	28/0.25	12.17

Pro-Met® 470 PVC Flexible PVC Control Cable

300 V Unshielded, Multiconductor, PVC, PVC



Grey

Operating Temperature

- –40°C to 80°C (fixed installation)
- –30°C to 70°C (occasional movement)

Conductor Color Coding

- Black with number coding, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors Premium industrial-grade
- PVC insulation
- Premium PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN EN 50525-2-51 (VDE 0285-525-2-51)
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

50 m (GE 433)
100 m (GE 434)
300 m (GE 432)

2.5 mm² (13 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470225YY	2	47/0.25	7.71
470325YY	3	47/0.25	8.30
470425YY	4	47/0.25	9.20
470525YY	5	47/0.25	10.10
470725YY	7	47/0.25	11.20
471225YY	12	47/0.25	15.40
471825YY	18	47/0.25	18.30
472525YY	25	47/0.25	21.70

4.0 mm² (11 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470024YY	2	56/0.30	9.10
470034YY	3	56/0.30	9.80
470044YY	4	56/0.30	10.90
470054YY	5	56/0.30	12.00
470074YY	7	56/0.30	13.30
470094YY	9	56/0.30	16.80
470124YY	12	56/0.30	18.30

6.0 mm² (9 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470036YY	3	84/0.30	11.80
470046YY	4	84/0.30	13.10
470056YY	5	84/0.30	14.50
470076YY	7	84/0.30	16.00
470096YY	9	84/0.30	20.30

Pro-Met® 470 PVC Flexible PVC Control Cable

300 V Unshielded, Multiconductor, PVC, PVC



Grey

Operating Temperature

- –40°C to 80°C (fixed installation)
- –30°C to 70°C (occasional movement)

Conductor Color Coding

- Black with number coding, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors Premium industrial-grade
- PVC insulation
- Premium PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN EN 50525-2-51 (VDE 0285-525-2-51)
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

50 m (GE 433)
100 m (GE 434)
300 m (GE 432)

10 mm² (7 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470310YY	3	80/0.39	14.80
470410YY	4	80/0.39	16.50
470510YY	5	80/0.39	18.30
470710YY	7	80/0.39	20.30
470910YY	9	80/0.39	25.70

16 mm² (5 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470316YY	3	126/0.40	18.10
470416YY	4	126/0.40	20.20
470516YY	5	126/0.40	22.40
470716YY	7	126/0.40	24.80

25 mm² (3 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
473250YY	3	196/0.40	22.40
474250YY	4	196/0.40	24.90
475250YY	5	196/0.40	27.70
477250YY	7	196/0.40	30.60

Pro-Met® 470 PVC Flexible PVC Control Cable

300 V Braid Shield, Multiconductor, PVC, PVC

Conductor Material	Stranded bare copper (DIN VDE 0295 Class 5)
Insulation Material & Color	Material: PVC (polyvinyl chloride). Color: Black with number coding, one Yellow/Green grounding wire (≥3C)
Braid Shield Material	Tinned Copper Braid Shield 80% coverage
Jacket Material & Color	Material: PVC (polyvinyl chloride) Color: Grey (RAL 7001) & Clear
Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
Voltage Rating (Uo/U)	300 / 500 V
Oil Resistance	DIN EN 50290-2-22 (TM54)
Temperature Range	-30 °C to 70 °C (occasional movement) -40 °C to 80 °C (fixed installation)
Bending Radius	20 x OD (occasional movement) 6 x OD (fixed installation)
Other Properties	Good UV resistance, chemical resistance & flexibility

General Reference Standards

DIN VDE 0295, IEC 60228, BS6360
DIN EN 50290-2-22, DIN VDE 0207-363-4-1
DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
RoHS, REACH & CE Directives



Pro-Met470CY Shielded Flexible PVC Control Cable

SHIELDED CABLE WITH (GY) PROTECTIVE GROUND



Pro-Met® 470 PVC Flexible PVC Control Cable

300 V Braid Shield, Multiconductor, PVC, PVC



Clear



Grey

Operating Temperature

- –40°C to 80°C (fixed installation)
- –30°C to 70°C (occasional movement)

Conductor Color Coding

- Black with number coding, one Yellow/Green grounding wire (≥3C)

Features

- Stranded bare copper conductors Premium industrial-grade
- PVC insulation
- Tinned Copper Braid Shield, 80% coverage
- Premium PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN EN 50525-2-51 (VDE 0285-525-2-51)
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

50 m (CL& GE 433)
100 m (CL& GE 434)
300 m (CL& GE 432)

0.5 mm² (21 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470025CY	2	20/0.177	7.10
470035CY	3	20/0.177	7.43
470045CY	4	20/0.177	7.97
470055CY	5	20/0.177	8.54
470075CY	7	20/0.177	9.42
470095CY	9	20/0.177	11.26
470125CY	12	20/0.177	12.00

0.75 mm² (19 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470027CY	2	30/0.177	7.58
470037CY	3	30/0.177	7.95
470047CY	4	30/0.177	8.55
470057CY	5	30/0.177	9.46
470077CY	7	30/0.177	10.15
470097CY	9	30/0.177	12.17
470127CY	12	30/0.177	13.00

1.0 mm² (17 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470021CY	2	30/0.20	7.95
470031CY	3	30/0.20	8.34
470041CY	4	30/0.20	9.25
470051CY	5	30/0.20	9.95
470071CY	7	30/0.20	10.69
470091CY	9	30/0.20	12.86
470121CY	12	30/0.20	13.76

1.5 mm² (15 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470215CY	2	28/0.25	8.83
470315CY	3	28/0.25	9.28
470415CY	4	28/0.25	10.01
470515CY	5	28/0.25	10.79
470715CY	7	28/0.25	11.63
470915CY	9	28/0.25	14.05
471215CY	12	28/0.25	15.06

Pro-Met® 470 PVC Flexible PVC Control Cable

300 V Braid Shield, Multiconductor, PVC, PVC



Clear



Grey

Operating Temperature

- –40°C to 80°C (fixed installation)
- –30°C to 70°C (occasional movement)

Conductor Color Coding

- Black with number coding, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors Premium industrial-grade
- PVC insulation
- Tinned Copper Braid Shield, 80% coverage
- Premium PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN EN 50525-2-51 (VDE 0285-525-2-51)
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

50 m (CL& GE 433)
100 m (CL& GE 434)
300 m (CL& GE 432)

2.5 mm² (13 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470225CY	2	47/0.25	10.40
470325CY	3	47/0.25	11.00
470425CY	4	47/0.25	11.90
470525CY	5	47/0.25	12.90
470725CY	7	47/0.25	14.00
471225CY	12	47/0.25	18.40

4.0 mm² (11 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470024CY	2	56/0.30	11.90
470034CY	3	56/0.30	12.60
470044CY	4	56/0.30	13.70
470054CY	5	56/0.30	14.90
470074CY	7	56/0.30	16.20
470094CY	9	56/0.30	20.10
470124CY	12	56/0.30	21.70

6.0 mm² (9 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470026CY	2	84/0.30	13.80
470036CY	3	84/0.30	14.60
470046CY	4	84/0.30	16.00
470056CY	5	84/0.30	17.50
470076CY	7	84/0.30	19.10
470096CY	9	84/0.30	23.80

Pro-Met® 470 PVC Flexible PVC Control Cable

300 V Braid Shield, Multiconductor, PVC, PVC



Clear



Grey

Operating Temperature

- –40°C to 80°C (fixed installation)
- –30°C to 70°C (occasional movement)

Conductor Color Coding

- Black with number coding, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors Premium industrial-grade
- PVC insulation
- Tinned Copper Braid Shield, 80% coverage
- Premium PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN EN 50525-2-51 (VDE 0285-525-2-51)
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

50 m (CL& GE 433)
100 m (CL& GE 434)
300 m (CL& GE 432)

10 mm² (7 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470210CY	2	80/0.39	16.80
470310CY	3	80/0.39	17.80
470410CY	4	80/0.39	19.80
470510CY	5	80/0.39	21.70
470710CY	7	80/0.39	23.80
470910CY	9	80/0.39	29.40

16 mm² (5 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
470316CY	3	126/0.40	21.50
470416CY	4	126/0.40	23.60
470516CY	5	126/0.40	26.00
470716CY	7	126/0.40	28.50

25 mm² (3 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
473250CY	3	126/0.40	25.90
474250CY	4	126/0.40	28.60
475250CY	5	126/0.40	31.50
477250CY	7	126/0.40	34.20

Pro-Met® 480 Continuous Flex Control Cable

600V TPE/PVC, 10M flex life cycles



Alpha's Solution

Pro-Met 480 is the high-flex drag chain oil-resistant multi-conductor cable with TPE insulation and high-performance PVC inner and outer jacket. This series is designed for use in robotics, machine tools and industrial automation where cables for dynamic drag chain applications.

Key Features

- 0.25 mm^2 - 25 mm^2
- Stranded bare copper conductors (IEC 60228 Class 6)
- TPE insulation
- PVC inner and outer jacket
- Grey (RAL 7001)
- Unshielded & shielded
- ++/-90° per meter torsion flex (unshielded)
- Custom size and conductor counts available

Applications

- Robotic arm
- Machine tools
- Industrial automation

Compliant with following International standards:

DIN VDE 0295 Class 6 & IEC60228 Class 6

IEC 60332-1, FT-1, VW-1

DIN VDE 0293

UL AWM 2570

RoHS, CE & REACH

CE RoHS Compliant

Pro-Met® 480 Continuous Flex Control Cable

600 V, Unshielded, Multiconductor, TPE, PVC, 1M flex life cycles

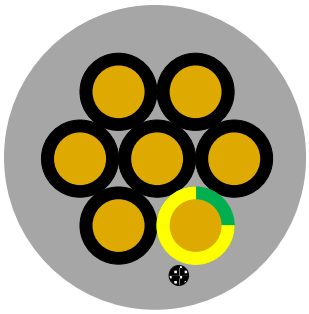
Conductor Material	Stranded bare copper (IEC 60228 Class 6)
Insulation Material & Color	Material: TPE (Thermoplastic Elastomer) Color: Black insulation with continuous white number, one Yellow/Green grounding wire (≥3C)
Jacket Material & Color	Material: PVC (polyvinyl chloride) Color: Grey RAL 7001
Flame Retardancy	IEC 60332-1-2, FT-1, VW-1
Voltage Rating	600 Vrms
Oil Resistance	Yes
Temperature Range	5 °C to 80 °C (flexing) -20 °C to 80 °C (stationary)
Bending Radius	Min. 5 x OD (stationary)
Flex Performance Reference	10 million flex life cycles @15~60°C travel distance < 10m, Min bending radius 9.5 x OD travel distance ≥ 10m, Min bending radius 12 x OD +/-90° per meter Torsion Flex performance
Availability	100 m, 300 m

General Reference Standards

DIN VDE 0295 Class 6 & IEC60228 Class 6
IEC 60332-1, FT-1, VW-1
DIN VDE 0293
UL AWM 2570
RoHS, REACH & CE Directives

Pro-Met® 480 Continuous Flex Control Cable

600 V, Unshielded, Multiconductor, TPE, PVC, 1M flex life cycles



Operating Temperature

- –5C to 80°C (flexing)
- –20°C to 80°C (stationary)

Conductor Color Coding

- Black with Continuous white number, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors
- TPE insulation
- PVC jacket
- Ripcord

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS, REACH & CE Directives

Availability

100 m (GE 434)
300 m (GE 432)

0.25 mm² (23 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800301YY	3	32/0.10	4.7
4800401YY	4	32/0.10	5.0
4800601YY	6	32/0.10	5.8
4800701YY	7	32/0.10	6.4
4801201YY	12	32/0.10	7.8
4802001YY	20	32/0.10	11.5
4802501YY	25	32/0.10	12.8
4803001YY	30	32/0.10	14.2

0.34 mm² (22 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800202YY	2	42/0.10	4.6
4800502YY	5	42/0.10	5.7

0.50 mm² (21 AWG)

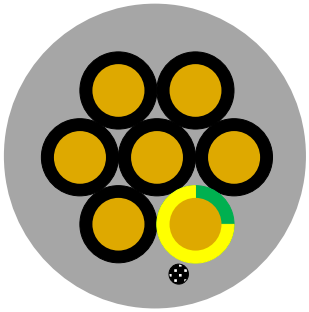
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800203YY	2	64/0.10	5.0
4800303YY	3	64/0.10	5.5
4800403YY	4	64/0.10	5.7
4800503YY	5	64/0.10	6.5
4800703YY	7	64/0.10	7.5
4801203YY	12	64/0.10	9.1
4801803YY	18	64/0.10	13.6
4802503YY	25	64/0.10	15.2

0.75 mm² (19 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800204YY	2	42/0.15	5.4
4800304YY	3	42/0.15	5.7
4800404YY	4	42/0.15	6.3
4800504YY	5	42/0.15	7.0
4800704YY	7	42/0.15	8.0
4801204YY	12	42/0.15	9.7
4801804YY	18	42/0.15	15.2
4802504YY	25	42/0.15	16.8
4803604YY	36	42/0.15	20.7
4804204YY	42	42/0.15	22.0

Pro-Met® 480 Continuous Flex Control Cable

600 V, Unshielded, Multiconductor, TPE, PVC, 1M flex life cycles



Operating Temperature

- –5C to 80°C (flexing)
- –20°C to 80°C (stationary)

Conductor Color Coding

- Black with Continuous white number, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors
- TPE insulation
- PVC jacket
- Ripcord

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS, REACH & CE Directives

Availability

100 m (GE 434)
300 m (GE 432)

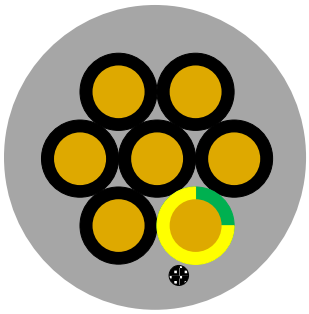
1.0 mm² (17 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800205YY	2	56/0.15	5.8
4800305YY	3	56/0.15	6.2
4800405YY	4	56/0.15	6.8
4800505YY	5	56/0.15	7.5
4800705YY	7	56/0.15	9.0
4801205YY	12	56/0.15	10.9
4801805YY	18	56/0.15	16.4
4802505YY	25	56/0.15	18.4

1.5 mm² (15 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800206YY	2	84/0.15	6.5
4800306YY	3	84/0.15	6.9
4800406YY	4	84/0.15	8.0
4800506YY	5	84/0.15	8.3
4800706YY	7	84/0.15	10.1
4801206YY	12	84/0.15	12.8
4801806YY	18	84/0.15	18.5
4802506YY	25	84/0.15	20.8
4803606YY	36	84/0.15	25.2
4804206YY	42	84/0.15	28.2

2.5 mm² (13 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800307YY	3	140/0.15	8.9
4800407YY	4	140/0.15	9.5
4800707YY	7	140/0.15	13.3
4801207YY	12	140/0.15	16.3

Pro-Met® 480 Continuous Flex Control Cable

600 V, Unshielded, Multiconductor, TPE, PVC, 1M flex life cycles



Operating Temperature

- –5C to 80°C (flexing)
- –20°C to 80°C (stationary)

Conductor Color Coding

- Black with Continuous white number, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors
- TPE insulation
- PVC jacket
- Ripcord

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS, REACH & CE Directives

Availability

100 m (GE 434)
300 m (GE 432)

4.0 mm² (11 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800308YY	3	244/0.15	10.7
4800508YY	5	244/0.15	13.2

6.0 mm² (9 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800409YY	4	343/0.15	13.8
4800509YY	5	343/0.15	15.3

10.0 mm² (7 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800510YY	5	570/0.15	20.4

16.0 mm² (5 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800511YY	5	627/0.18	24.3

25.0 mm² (3 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800512YY	5	969/0.18	30.2

Pro-Met® 480 Continuous Flex Control Cable

600 V, Braid Shield, Multiconductor, TPE, PVC, 1M flex life cycles

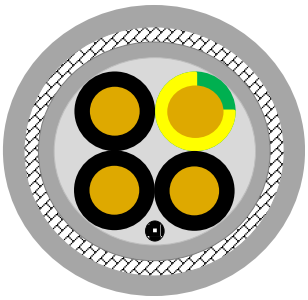
Conductor Material	Stranded bare copper (IEC 60228 Class 6)
Insulation Material & Color	Material: TPE (Thermoplastic Elastomer) Color: Black insulation with continuous white number, one Yellow/Green grounding wire (⩾3C)
Shielding Material	Tinned copper wire braiding, 80% coverage
Jacket Material & Color	Material: PVC (polyvinyl chloride) Color: Grey RAL 7001
Flame Retardancy	IEC 60332-1-2, FT-1, VW-1
Voltage Rating	600 Vrms
Oil Resistance	Yes
Temperature Range	5 °C to 80 °C (flexing) -20 °C to 80 °C (stationary)
Bending Radius	Min. 7.5 x OD (stationary)
Flex Performance Reference	10 million flex life cycles @15~60°C travel distance < 10m, Min bending radius 9.5 x OD travel distance ⩾ 10m, Min bending radius 12 x OD
Availability	100 m, 300 m

General Reference Standards

DIN VDE 0295 Class 6 & IEC60228 Class 6
IEC 60332-1, FT-1, VW-1
DIN VDE 0293
UL AWM 2570
RoHS, REACH & CE Directives

Pro-Met® 480 Continuous Flex Control Cable

600 V, Braid Shield, Multiconductor, TPE, PVC, 1M flex life cycles



Operating Temperature

- –5C to 80°C (flexing)
- –20°C to 80°C (stationary)

Conductor Color Coding

- Black with Continuous white number, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors
- TPE insulation
- PVC inner jacket
- Tinned copper wire braiding, 80% coverage
- PVC outer jacket
- Ripcord

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS, REACH & CE Directives

Availability

100 m (GE 434)
300 m (GE 432)

0.25 mm² (23 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4801201CY	12	32/0.10	9.3

0.34 mm² (22 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800502CY	5	42/0.10	7.0

0.50 mm² (21 AWG)

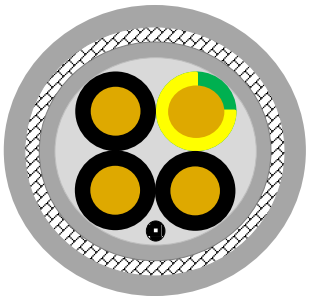
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800303CY	3	64/0.10	7.0
4800503CY	5	64/0.10	8.5
4801803CY	18	64/0.10	15.5
4803603CY	36	64/0.10	21.3

0.75 mm² (19 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800304CY	3	42/0.15	8.0
4800404CY	4	42/0.15	8.0
4800504CY	5	42/0.15	8.7
4800704CY	7	42/0.15	10.0
4801204CY	12	42/0.15	12.0
4801804CY	18	42/0.15	17.3
4802504CY	25	42/0.15	19.2
4803604CY	36	42/0.15	23.3
4804204CY	42	42/0.15	25.6

Pro-Met® 480 Continuous Flex Control Cable

600 V, Braid Shield, Multiconductor, TPE, PVC, 1M flex life cycles



Operating Temperature

- –5C to 80°C (flexing)
- –20°C to 80°C (stationary)

Conductor Color Coding

- Black with Continuous white number, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors
- TPE insulation
- PVC inner jacket
- Tinned copper wire braiding, 80% coverage
- PVC outer jacket
- Ripcord

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1, FT-1, VW-1
- DIN VDE 0293
- UL AWM 2570
- RoHS, REACH & CE Directives

Availability

100 m (GE 434)
300 m (GE 432)

1.0 mm² (17 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800205CY	2	56/0.15	7.8
4800305CY	3	56/0.15	8.1
4800405CY	4	56/0.15	9.0
4800505CY	5	56/0.15	9.5
4800705CY	7	56/0.15	11.0
4801205CY	12	56/0.15	13.0
4801805CY	18	56/0.15	19.2
4802505CY	25	56/0.15	21.4

1.5 mm² (15 AWG)

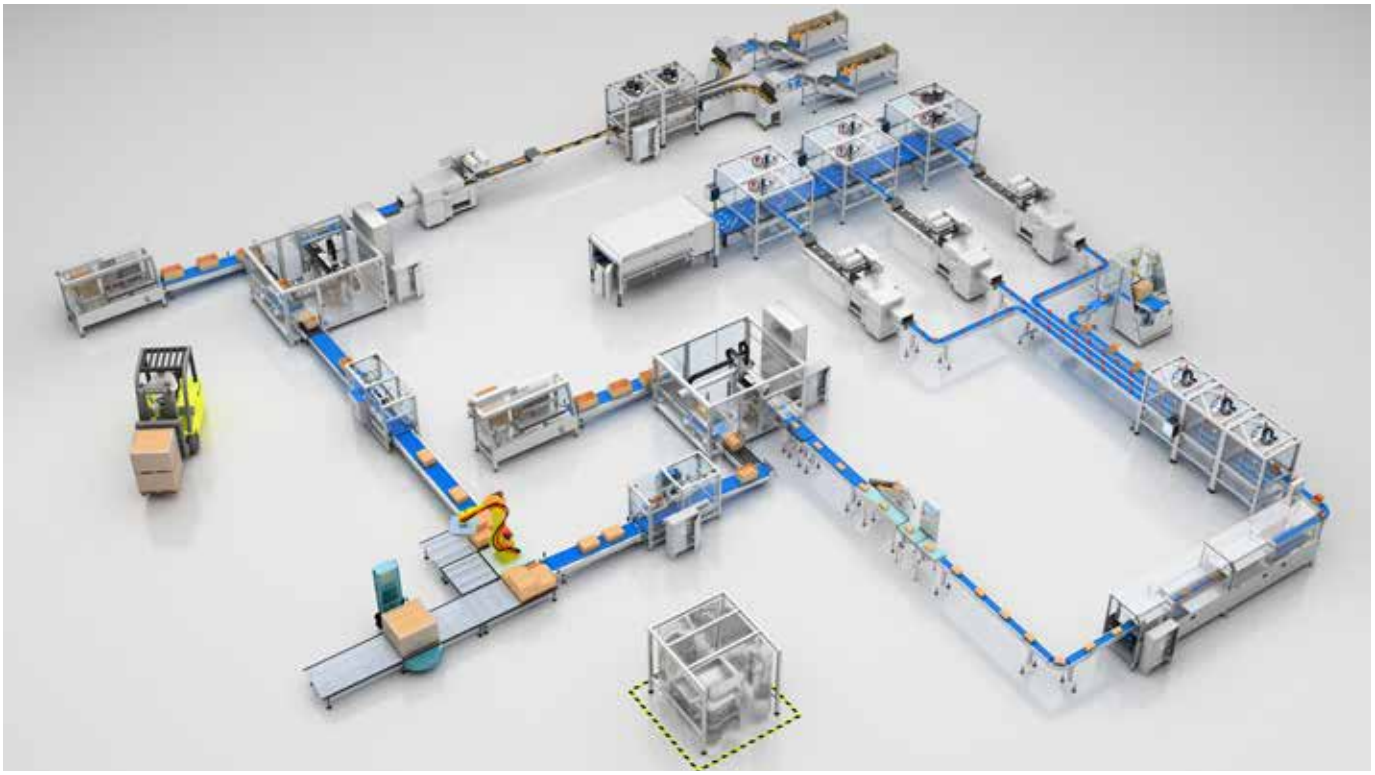
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800306CY	3	84/0.15	9.0
4800406CY	4	84/0.15	9.5
4800506CY	5	84/0.15	10.7
4800706CY	7	84/0.15	12.4
4801206CY	12	84/0.15	17.8
4801806CY	18	84/0.15	21.5
4802506CY	25	84/0.15	23.8
4803606CY	36	84/0.15	28.8
4804206CY	42	84/0.15	31.8

2.5 mm² (13 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4800307CY	3	140/0.15	11.2
4800407CY	4	140/0.15	11.5

Pro-Met® 410 Standard Flex Control Cable

300 V Flex PVC, 5M Flex Life Cycles



Alpha's Solution

Pro-Met 410 flex PVC control cable, designed to provide excellent performance in flex applications in field of industrial automation, such as motion control, multi axis control machines, control panels. This series offers 5 million minimum flex life cycles in drag chain and other continuous flex applications.

Key Features

- 0.5 mm^2 - 16 mm^2
- Stranded bare copper conductors (IEC 60228 Class 6)
- PVC insulation
- Unshielded & shielded
- 5M flex life cycles
- Color: Grey (RAL 7001)
- Custom size and conductor counts available

Applications

- Control panels
- Multi-axis control machine
- Precision control sensors
- Mechanical moving parts
- Drag-chain-related applications

Compliant with following international standards:

DIN VDE 0295 Class 6 & IEC60228 Class 6

IEC 60332-1

DIN VDE 0293-1

RoHS, CE & REACH

CE RoHS Compliant

Pro-Met® 410 Standard Flex Control Cable

300 V Unshielded, Multiconductor, PVC, PVC, 5M flex life cycles

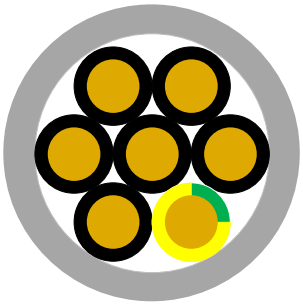
Conductor Material	Stranded bare copper (IEC 60228 Class 6)
Insulation Material & Color	Material: PVC (polyvinyl chloride). Color: Black insulation with continuous white number, one Yellow/Green grounding wire (≥3C)
Jacket Material & Color	Material: PVC (polyvinyl chloride) Color: Grey RAL 7001
Flame Retardancy	IEC 60332-1-2
Voltage Rating (Uo/U)	300/500 V
Oil Resistance	Yes
Temperature Range	0 °C to 70 °C (flexing) -40 °C to 80 °C (stationary)
Bending Radius	7.5x OD (flexing) 4 x OD (stationary)
Other Properties	Good UV resistance & chemical resistance
Availability	100 m, 300 m

General Reference Standards

DIN VDE 0295 Class 6 & IEC60228 Class 6
IEC 60332-1
DIN VDE 0293-1
RoHS, REACH & CE Directives

Pro-Met® 410 Standard Flex Control Cable

300 V Unshielded, Multiconductor, PVC, PVC, 5M flex life cycles



Operating Temperature

- 0C to 70°C (flexing)
- –40°C to 80°C (stationary)

Conductor Color Coding

- Black with Continuous white number, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors
- PVC insulation
- PVC jacket

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1
- DIN VDE 0293-1
- RoHS, REACH & CE Directives

Availability

100 m (GE 434)
300 m (GE 432)

0.5 mm² (21 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100201YY	2	28/0.15	5.17
4100301YY	3	28/0.15	5.49
4100401YY	4	28/0.15	6.04
4100501YY	5	28/0.15	6.64
4100701YY	7	28/0.15	7.90
4101201YY	12	28/0.15	9.69
4101801YY	18	28/0.15	11.48
4102501YY	25	28/0.15	13.89
4105001YY	50	28/0.15	18.64

0.75 mm² (19 AWG)

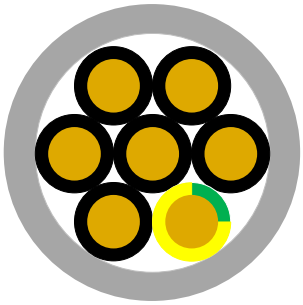
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100202YY	2	37/0.154	5.67
4100302YY	3	37/0.154	6.02
4100402YY	4	37/0.154	6.63
4100502YY	5	37/0.154	7.30
4100702YY	7	37/0.154	8.72
4101202YY	12	37/0.154	10.70
4101802YY	18	37/0.154	12.69
4102502YY	25	37/0.154	15.40

1.0 mm² (17 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100203YY	2	50/0.154	6.11
4100303YY	3	50/0.154	6.49
4100403YY	4	50/0.154	7.16
4100503YY	5	50/0.154	7.90
4100703YY	7	50/0.154	9.44
4101203YY	12	50/0.154	11.63
4101803YY	18	50/0.154	13.80
4102503YY	25	50/0.154	16.75
4105003YY	50	50/0.154	22.54

Pro-Met® 410 Standard Flex Control Cable

300 V Unshielded, Multiconductor, PVC, PVC, 5M flex life cycles



Operating Temperature

- 0C to 70°C (flexing)
- –40°C to 80°C (stationary)

Conductor Color Coding

- Black with Continuous white number, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors
- PVC insulation
- PVC jacket

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1
- DIN VDE 0293-1
- RoHS, REACH & CE Directives

Availability

100 m (GE 434)
300 m (GE 432)

1.5 mm² (15 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100204YY	2	75/0.154	6.77
4100304YY	3	75/0.154	7.22
4100404YY	4	75/0.154	7.99
4100504YY	5	75/0.154	8.80
4100704YY	7	75/0.154	10.54
4101204YY	12	75/0.154	13.02
4101804YY	18	75/0.154	15.47
4102504YY	25	75/0.154	18.82
4105004YY	50	75/0.154	25.39

2.5 mm² (13 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100305YY	3	124/0.154	9.11
4100405YY	4	124/0.154	10.10
4100505YY	5	124/0.154	11.19
4100705YY	7	124/0.154	13.45
4101205YY	12	124/0.154	16.69

4.0 mm² (11 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100306YY	3	199/0.154	10.50
4100406YY	4	199/0.154	11.65
4100506YY	5	199/0.154	12.92
4100706YY	7	199/0.154	15.56

6.0 mm² (9 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100407YY	4	191/0.195	13.83
4100507YY	5	191/0.195	15.34

10.0 mm² (7 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100408YY	4	318/0.195	18.20
4100508YY	5	318/0.195	20.24

16.0 mm² (5 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100409YY	4	509/0.195	21.98
4100509YY	5	509/0.195	24.46

Pro-Met® 410 Standard Flex Control Cable

300 V Braid Shield, Multiconductor, PVC, PVC, 5M flex life cycles

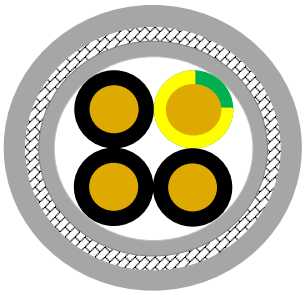
Conductor Material	Stranded bare copper (IEC 60228 Class 6)
Insulation Material & Color	Material: PVC (polyvinyl chloride). Color: Black with Continuous white number, one Yellow/Green grounding wire (≥3C)
Shield Material	Tinned copper wire, 80% coverage
Jacket Material & Color	Material: PVC (polyvinyl chloride) Color: Grey (RAL 7001)
Flame Retardancy	IEC 60332-1-2
Voltage Rating (Uo/U)	300/500 V
Oil Resistance	Yes
Temperature Range	0 °C to 70 °C (flexing) -40 °C to 80 °C (stationary)
Bending Radius	7.5 x OD (flexing) 4 x OD (stationary)
other Properties	Good UV resistance & chemical resistance
Availability	100 m, 300 m

General Reference Standards

DIN VDE 0295 Class 6 & IEC60228 Class 6
IEC 60332-1
DIN VDE 0293-1
RoHS, REACH & CE Directives

Pro-Met® 410 Standard Flex Control Cable

300 V Braid Shield, Multiconductor, PVC, PVC, 5M flex life cycles



Operating Temperature

- 0C to 70°C (flexing)
- –40°C to 80°C (stationary)

Conductor Color Coding

- Black with Continuous white number, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors
- PVC insulation
- PVC inner jacket
- Tinned copper wire braiding, 80% coverage
- PVC outer jacket

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1
- DIN VDE 0293-1
- RoHS, REACH & CE Directives

Availability

100 m (GE 434)
300 m (GE 432)

0.5 mm² (21 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100201CY	2	28/0.15	7.04
4100301CY	3	28/0.15	7.36
4100401CY	4	28/0.15	7.93
4100501CY	5	28/0.15	8.57
4100701CY	7	28/0.15	9.85
4101201CY	12	28/0.15	11.72
4101801CY	18	28/0.15	13.68
4102501CY	25	28/0.15	16.21

0.75 mm² (19 AWG)

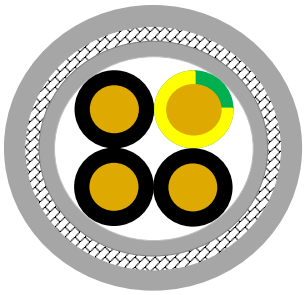
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100202CY	2	37/0.154	7.52
4100302CY	3	37/0.154	7.91
4100402CY	4	37/0.154	8.54
4100502CY	5	37/0.154	9.23
4100702CY	7	37/0.154	10.71
4101202CY	12	37/0.154	12.79
4101802CY	18	37/0.154	14.97
4102502CY	25	37/0.154	17.76

1.0 mm² (17 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100203CY	2	50/0.154	8.00
4100303CY	3	50/0.154	8.40
4100403CY	4	50/0.154	9.09
4100503CY	5	50/0.154	9.85
4100703CY	7	50/0.154	11.47
4101203CY	12	50/0.154	13.85
4101803CY	18	50/0.154	16.08
4102503CY	25	50/0.154	19.35
4105003CY	50	50/0.154	25.34

Pro-Met® 410 Standard Flex Control Cable

300 V Braid Shield, Multiconductor, PVC, PVC, 5M flex life cycles



Operating Temperature

- 0C to 70°C (flexing)
- –40°C to 80°C (stationary)

Conductor Color Coding

- Black with Continuous white number, one Yellow/Green grounding wire (≥3C)

Materials

- Stranded bare copper conductors
- PVC insulation
- PVC inner jacket
- Tinned copper wire braiding, 80% coverage
- PVC outer jacket

Features

- DIN VDE 0295 class 6 & IEC 60228 class 6
- IEC 60332-1
- DIN VDE 0293-1
- RoHS, REACH & CE Directives

Availability

100 m (GE 434)
300 m (GE 432)

1.5 mm² (15 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100204CY	2	75/0.154	8.68
4100304CY	3	75/0.154	9.17
4100404CY	4	75/0.154	9.94
4100504CY	5	75/0.154	10.81
4100704CY	7	75/0.154	12.63
4101204CY	12	75/0.154	15.30
4101804CY	18	75/0.154	17.85
4102504CY	25	75/0.154	21.50

2.5 mm² (13 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100305CY	3	124/0.154	11.12
4100405CY	4	124/0.154	12.15
4100505CY	5	124/0.154	13.39
4100705CY	7	124/0.154	15.75
4101205CY	12	124/0.154	19.25

4.0 mm² (11 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100306CY	3	199/0.154	12.75
4100406CY	4	199/0.154	13.87
4100506CY	5	199/0.154	15.18
4100706CY	7	199/0.154	17.92

6.0 mm² (9 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100407CY	4	191/0.195	16.13

10.0 mm² (7 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100408CY	4	318/0.195	20.84

16.0 mm² (5 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4100409CY	4	509/0.195	24.78

Pro-Met® 440&441 PVC Control & Signal Cable

350 & 500 V PVC, LiYY & LiYCY, LiYY(TP) & LiYCY(TP)



Alpha's Solution

LiYY and LiYCY data transmission cable is suitable for fixed installations or transident dynamic applications.

Key Features

- 0.14mm² - 1.5mm²
- Stranded bare copper conductors (IEC 60228)
- PVC insulation & jacket
- Grey (RAL 7032)
- Custom size and conductor counts available

Applications

- Control system
- Instrument system
- Computer system
- Security system - alarm, monitor, sensor, etc.

Compliant with following International standards:

DIN VDE 0295, IEC 60228, BS 6360, UL1581

DIN EN 50290-2-22(TM54)

DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2, VW-1

RoHS, CE & REACH

Pro-Met® 440&441 PVC Control & Signal Cable

LiYY Cable

350 & 500 V Unshielded, Multiconductor, PVC, PVC

Conductor Material	Stranded bare copper (IEC 60228 Class 5)
Insulation Material & Color	Material: PVC (polyvinyl chloride). Color: Color Code in P508, refer to DIN 47100
Jacket Material & Color	Material: PVC (polyvinyl chloride) Color: Grey RAL 7032
Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2, VW-1
Voltage Rating (Uo/U)	0.14mm^2: 350 V (not available for power supply applications) 0.25mm^2 -1.5mm^2: 500 V (not available for power supply applications)
Oil Resistance	DIN EN 50290-2-22 (TM54)
Temperature Range	-40 °C to 80 °C (fixed installation) -5 °C to 70 °C (occasional movement)
Bending Radius	6 x OD (fixed installation) 15 x OD (occasional movement)
Other Properties	Good UV resistance, chemical resistance & flexibility
Availability	100 m, 300 m, Bulk

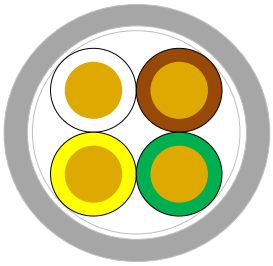
General Reference Standards

DIN VDE 0295, IEC 60228, BS6360, UL1581
DIN EN 50290-2-22 (TM54), DIN VDE 0207-363-3
DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
RoHS, REACH & CE Directives

Pro-Met® 440 PVC Control & Signal Cable

LiYY Cable

350 V(0.14mm²) & 500 V Unshielded, Multiconductor, PVC, PVC



Operating Temperature

- –40°C to 80°C (fixed installation)
- –5°C to 70°C (occasional movement)

Materials

- Stranded bare copper conductors
- PVC insulation
- PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

100 m (GE 434)
300 m (GE 432)
Bulk (GE 199)

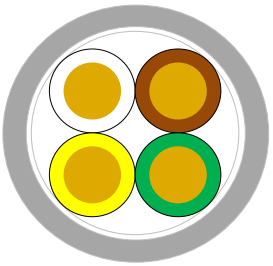
0.14 mm² (25 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400214YY	2	26/0.08	3.00
4400314YY	3	26/0.08	3.10
4400414YY	4	26/0.08	3.60
4400514YY	5	26/0.08	3.90
4400714YY	7	26/0.08	4.20
4400814YY	8	26/0.08	4.70
4401014YY	10	26/0.08	5.20
4402514YY	25	26/0.08	7.30
4405014YY	50	26/0.08	10.40

0.25 mm² (23 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400225YY	2	14/0.15	3.60
4400325YY	3	14/0.15	4.00
4400425YY	4	14/0.15	4.30
4400525YY	5	14/0.15	4.70
4400625YY	6	14/0.15	5.10
4400725YY	7	14/0.15	5.10
4400825YY	8	14/0.15	5.70
4401025YY	10	14/0.15	6.40
4401225YY	12	14/0.15	6.60
4401425YY	14	14/0.15	7.00
4401625YY	16	14/0.15	7.40
4401825YY	18	14/0.15	7.80
4402025YY	20	14/0.15	8.20
4402525YY	25	14/0.15	9.30
4403025YY	30	14/0.15	10.10
4403225YY	32	14/0.15	10.50
4403625YY	36	14/0.15	10.90
4405025YY	50	14/0.15	13.10

Pro-Met® 440 PVC Control & Signal Cable

LiYY Cable

500 V Unshielded, Multiconductor, PVC, PVC



Operating Temperature

- –40°C to 80°C (fixed installation)
- –5°C to 70°C (occasional movement)

Materials

- Stranded bare copper conductors
- PVC insulation
- PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

100 m (GE 434)
300 m (GE 432)
Bulk (GE 199)

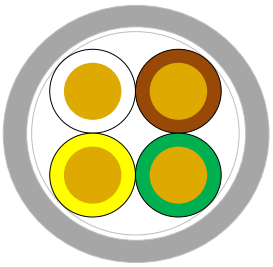
0.34 mm² (22 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400234YY	2	16/0.16	4.00
4400334YY	3	16/0.16	4.20
4400434YY	4	16/0.16	4.60
4400534YY	5	16/0.16	5.00
4400634YY	6	16/0.16	5.40
4400734YY	7	16/0.16	5.40
4400834YY	8	16/0.16	6.00
4401034YY	10	16/0.16	6.80
4401234YY	12	16/0.16	7.10
4401634YY	16	16/0.16	7.80
4402034YY	20	16/0.16	9.00
4402534YY	25	16/0.16	9.90
4403034YY	30	16/0.16	10.70
4403634YY	36	16/0.16	11.80
4405034YY	50	16/0.16	13.90

0.50 mm² (21 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400250YY	2	20/0.177	4.50
4400350YY	3	20/0.177	4.80
4400450YY	4	20/0.177	5.20
4400550YY	5	20/0.177	5.70
4400750YY	7	20/0.177	6.20
4401050YY	10	20/0.177	8.00
4401250YY	12	20/0.177	8.20
4402550YY	25	20/0.177	11.80

Pro-Met® 440 PVC Control & Signal Cable

LiYY Cable

500 V Unshielded, Multiconductor, PVC, PVC



Operating Temperature

- –40°C to 80°C (fixed installation)
- –5°C to 70°C (occasional movement)

Materials

- Stranded bare copper conductors
- PVC insulation
- PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

100 m (GE 434)
300 m (GE 432)
Bulk (GE 199)

0.75 mm² (19 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400275YY	2	30/0.177	4.90
4400375YY	3	30/0.177	5.20
4400475YY	4	30/0.177	5.70
4400575YY	5	30/0.177	6.20
4400775YY	7	30/0.177	6.80
4401075YY	10	30/0.177	8.90
4401275YY	12	30/0.177	9.20
4401675YY	16	30/0.177	10.30
4402575YY	25	30/0.177	13.10

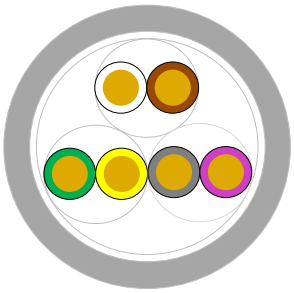
1.0 mm² (17 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400210YY	2	30/0.20	5.20
4400310YY	3	30/0.20	5.50
4400410YY	4	30/0.20	6.10
4400510YY	5	30/0.20	6.60
4400710YY	7	30/0.20	7.30
4400810YY	8	30/0.20	8.20
4401210YY	12	30/0.20	9.80
4401610YY	16	30/0.20	11.00
4402010YY	20	30/0.20	12.50

1.5 mm² (15 AWG)			
Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400215YY	2	28/0.25	6.10
4400315YY	3	28/0.25	6.50
4400415YY	4	28/0.25	7.20
4400515YY	5	28/0.25	7.90
4400715YY	7	28/0.25	8.80

Pro-Met® 441 PVC Control & Signal Cable

LiYY(TP) Cable

350 V (0.14mm²) & 500 V Unshielded, Multipair, PVC, PVC



Operating Temperature

- –40°C to 80°C (fixed installation)
- –5°C to 70°C (occasional movement)

Materials

- Stranded bare copper conductors
- PVC insulation
- PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

100 m (GE 434)
300 m (GE 432)
Bulk (GE 199)

0.14 mm² (25 AWG)			
Part No.	Pairs	Stranding Conductor	Nominal Diameter
		mm	mm
4410214YY	2	26/0.08	4.70
4410314YY	3	26/0.08	4.90
4410414YY	4	26/0.08	5.30
4410514YY	5	26/0.08	5.80
4411014YY	10	26/0.08	8.20
4411214YY	12	26/0.08	8.50
4411614YY	16	26/0.08	9.50

0.25 mm² (23 AWG)			
Part No.	Pairs	Stranding Conductor	Nominal Diameter
		mm	mm
4410225YY	2	14/0.15	5.70
4410325YY	3	14/0.15	6.00
4410425YY	4	14/0.15	6.60
4410625YY	6	14/0.15	8.00
4410825YY	8	14/0.15	9.10

0.50 mm² (21 AWG)			
Part No.	Pairs	Stranding Conductor	Nominal Diameter
		mm	mm
4410250YY	2	20/0.177	7.10
4410350YY	3	20/0.177	7.50
4410450YY	4	20/0.177	8.20
4410850YY	8	20/0.177	11.40
4411050YY	10	20/0.177	13.10

Pro-Met® 440&441 PVC Control & Signal Cable

LiYY Cable

350 & 500 V Braid Shield, Multiconductor, PVC, PVC

Conductor Material	Stranded bare copper (IEC 60228 Class 5)
Insulation Material & Color	Insulation Material: PVC (polyvinyl chloride) Color: Color Code in P508, refer to DIN 47100
Shield Material	Tinned copper wire 70% coverage
Jacket Material & Color	Material: PVC (polyvinyl chloride) Color: Grey RAL 7032
Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2, VW-1
Voltage Rating (Uo/U)	0.14mm^2: 350 V (not available for power supply applications) 0.25mm^2 -1.5mm^2: 500 V (not available for power supply applications)
Oil Resistance	DIN EN 50290-2-22 (TM54)
Temperature Range	-40 °C to 80 °C (fixed installation) -5 °C to 70 °C (occasional movement)
Bending Radius	6 x OD (fixed installation) 15 x OD (occasional movement)
Other Properties	Good UV resistance, chemical resistance & flexibility
Availability	100 m, 300 m, Bulk

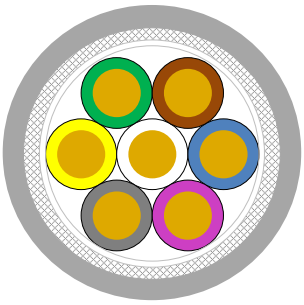
General Reference Standards

DIN VDE 0295, IEC 60228, BS6360, UL1581
DIN EN 50290-2-22 (TM54), DIN VDE 0207-363-3
DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
RoHS, REACH & CE Directives

Pro-Met® 440 PVC Control & Signal Cable

LiYCY Cable

350 V(0.14mm²) & 500 V, Braid Shield, Multiconductor, PVC, PVC



Operating Temperature

- –40°C to 80°C (fixed installation)
- –5°C to 70°C (occasional movement)

Materials

- Stranded bare copper conductors
- PVC insulation
- Tinned Copper Braid Shield, 70% coverage
- PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

100 m (GE 434)
300 m (GE 432)
Bulk (GE 199)

0.14 mm² (25 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400214CY	2	26/0.08	3.60
4400314CY	3	26/0.08	3.80
4400414CY	4	26/0.08	4.20
4400514CY	5	26/0.08	4.50
4400714CY	7	26/0.08	4.80
4401214CY	12	26/0.08	6.10
4401414CY	14	26/0.08	6.32
4402514CY	25	26/0.08	8.00
4405014CY	50	26/0.08	11.00

0.25 mm² (23 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400225CY	2	14/0.15	4.20
4400325CY	3	14/0.15	4.60
4400425CY	4	14/0.15	5.00
4400525CY	5	14/0.15	5.30
4400625CY	6	14/0.15	5.75
4400725CY	7	14/0.15	5.75
4400825CY	8	14/0.15	6.30
4400925CY	9	14/0.15	6.80
4401025CY	10	14/0.15	7.10
4401225CY	12	14/0.15	7.30
4401525CY	15	14/0.15	8.02
4401625CY	16	14/0.15	8.00
4401825CY	18	14/0.15	8.40
4402025CY	20	14/0.15	8.90
4402525CY	25	14/0.15	10.00
4403025CY	30	14/0.15	10.70
4403625CY	36	14/0.15	11.50
4405025CY	50	14/0.15	13.70

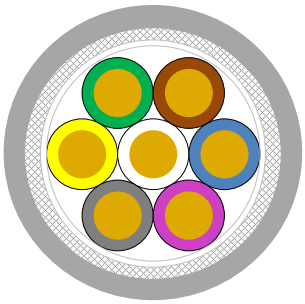
0.34 mm² (21 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400234CY	2	16/0.16	4.60
4400334CY	3	16/0.16	4.80
4400434CY	4	16/0.16	5.20
4400734CY	7	16/0.16	6.05
4400834CY	8	16/0.16	6.70
4401034CY	10	16/0.16	7.50
4401634CY	16	16/0.16	8.50
4401834CY	18	16/0.16	8.90
4402034CY	20	16/0.16	9.60
4402534CY	25	16/0.16	10.60
4403034CY	30	16/0.16	11.40
4405034CY	50	16/0.16	14.50

Pro-Met® 440 PVC Control & Signal Cable

LiYCY Cable

500 V, Braid Shield, Multiconductor, PVC, PVC



Operating Temperature

- –40°C to 80°C (fixed installation)
- –5°C to 70°C (occasional movement)

Materials

- Stranded bare copper conductors
- PVC insulation
- Tinned Copper Braid Shield, 70% coverage
- PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

100 m (GE 434)
300 m (GE 432)
Bulk (GE 199)

0.50 mm² (19 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400250CY	2	20/0.177	5.20
4400350CY	3	20/0.177	5.40
4400450CY	4	20/0.177	5.90
4400550CY	5	20/0.177	6.40
4400750CY	7	20/0.177	6.90
4400850CY	8	20/0.177	7.66
4401050CY	10	20/0.177	8.61

0.75 mm² (17 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400275CY	2	30/0.177	5.55
4400375CY	3	30/0.177	5.90
4400475CY	4	30/0.177	6.35
4400575CY	5	30/0.177	6.90
4400675CY	6	30/0.177	7.50
4400775CY	7	30/0.177	7.50

1.0 mm² (15 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400210CY	2	30/0.20	5.80
4400310CY	3	30/0.20	6.20
4400410CY	4	30/0.20	6.70
4400510CY	5	30/0.20	7.30
4400710CY	7	30/0.20	7.90
4401010CY	10	30/0.20	10.20

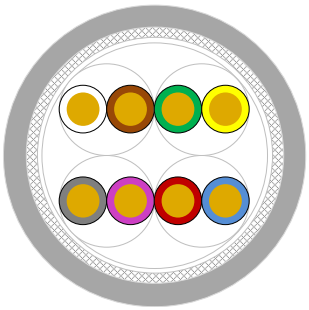
1.5 mm² (13 AWG)

Part No.	Conductors	Stranding Conductor	Nominal Diameter
		mm	mm
4400215CY	2	28/0.25	6.80
4400315CY	3	28/0.25	7.20
4400415CY	4	28/0.25	7.80
4400515CY	5	28/0.25	8.50
4400715CY	7	28/0.25	9.50

Pro-Met® 440 PVC Control & Signal Cable

LiYCY(TP) Cable

350 V(0.14mm²) & 500 V, Braid Shield, Multipair, PVC, PVC



Operating Temperature

- –40°C to 80°C (fixed installation)
- –5°C to 70°C (occasional movement)

Materials

- Stranded bare copper conductors
- PVC insulation
- Tinned Copper Braid Shield, 70% coverage
- PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

100 m (GE 434)
300 m (GE 432)
Bulk (GE 199)

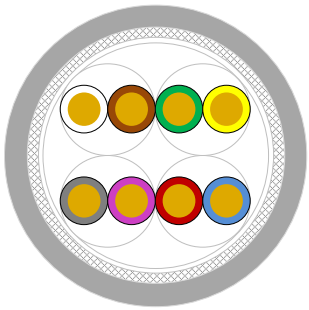
0.14 mm² (25 AWG)			
Part No.	Pairs	Stranding Conductor	Nominal Diameter
		mm	mm
4410214CY	2	26/0.08	5.58
4410314CY	3	26/0.08	5.79
4410414CY	4	26/0.08	6.30
4410514CY	5	26/0.08	6.80
4410614CY	6	26/0.08	7.30
4410814CY	8	26/0.08	8.20
4412514CY	25	26/0.08	12.90

0.25 mm² (23 AWG)			
Part No.	Pairs	Stranding Conductor	Nominal Diameter
		mm	mm
4410225CY	2	14/0.15	6.70
4410325CY	3	14/0.15	6.90
4410425CY	4	14/0.15	7.60
4410525CY	5	14/0.15	8.20
4410625CY	6	14/0.15	9.00
4410825CY	8	14/0.15	10.00
4411025CY	10	14/0.15	11.40
4412525CY	25	14/0.15	16.10

0.34 mm² (22 AWG)			
Part No.	Pairs	Stranding Conductor	Nominal Diameter
		mm	mm
4410234CY	2	16/0.16	7.05
4410334CY	3	16/0.16	7.30
4410434CY	4	16/0.16	8.00
4410534CY	5	16/0.16	8.70
4412534CY	25	16/0.16	17.30

Pro-Met® 440 PVC Control & Signal Cable

LiYCY(TP) Cable
500 V, Braid Shield, Multipair, PVC, PVC



Operating Temperature

- –40°C to 80°C (fixed installation)
- –5°C to 70°C (occasional movement)

Materials

- Stranded bare copper conductors
- PVC insulation
- Tinned Copper Braid Shield, 70% coverage
- PVC jacket

Features

- DIN VDE 0295, IEC 60228, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives
- Good UV resistance

Availability

100 m (GE 434)
300 m (GE 432)
Bulk (GE 199)

0.50 mm² (21 AWG)			
Part No.	Pairs	Stranding Conductor	Nominal Diameter
		mm	mm
4410250CY	2	20/0.177	8.10
4410350CY	3	20/0.177	8.40
4410450CY	4	20/0.177	9.20
4410550CY	5	20/0.177	10.10
4410650CY	6	20/0.177	11.00
4410850CY	8	20/0.177	12.40
4411250CY	12	20/0.177	14.60
4411650CY	16	20/0.177	16.20

0.75 mm² (19 AWG)			
Part No.	Pairs	Stranding Conductor	Nominal Diameter
		mm	mm
4410275CY	2	30/0.177	8.80
4410375CY	3	30/0.177	9.10
4410475CY	4	30/0.177	10.00
4410675CY	6	30/0.177	12.00
4410875CY	8	30/0.177	13.60
4411075CY	10	30/0.177	15.40
4411275CY	12	30/0.177	16.00

1.0 mm² (17 AWG)			
Part No.	Pairs	Stranding Conductor	Nominal Diameter
		mm	mm
4410210CY	2	30/0.20	9.30
4410310CY	3	30/0.20	9.70
4410410CY	4	30/0.20	10.70
4410810CY	8	30/0.20	14.50
4411610CY	16	30/0.20	19.20

Hook-up Wire



Medical Equipment

Industrial Automation

Semi-conductor Equipment

Aerospace and Defence

Energy and Solar

Consumer Electronics

Hook-Up Wire





The broad range of hook-up from Alpha means you will find the product exactly suited to your application—whether it's as straightforward as a control cabinet in a protected environment or as specialized as a machine tool on the factory floor, a high-temperature oven, or off-road construction equipment.

Our hook-up wire is available in a variety of insulations to meet your needs for temperature, ability to withstand wear and abrasion, electrical performance and resistance to oil, solvents, and chemicals.

- **Stranded and solid copper conductors, bare or tinned, with other platings available for special application needs**
- **Broad range of insulations**
- **Color-coded insulation for easy circuit identification**
- **UL, CSA and MIL-SPEC compliance**
- **Convenient put-ups as short as 100 ft**
- **Excellent uniformity and low-fray design for easy handling, stripping and termination**

Choice of Insulation to Meet Temperature Range and Mechanical and Environmental Requirements

Insulation	Material	Temperature Range	Features
Fluoroplastic	Fluoroplastic	**-150°C to 300°C**	Extreme temperature resistance Space-saving construction Environmental resistance
PVC	Polyvinyl chloride	**-55°C to 105°C**	General-purpose insulation Good abrasion resistance Excellent flame resistance
XL-PVC	Cross-linked PVC	**-55°C to 105°C**	Better abrasion and cut-through resistance than standard PVC Improved temperature and solder iron resistance over standard PVC Used in high-density wiring
mPPE	Modified polyphenylene ether	**-40°C to 105°C**	Excellent recyclability Excellent abrasion and cut-through resistance Superior dielectric properties for thinner walls than PVC—allows wires 45% smaller in diameter and 40% lighter in weight
PTFE	Polytetrafluoroethylene	**-55°C to 200°C**	High temperature Chemically inert: excellent chemical and solvent resistance Excellent electrical properties
XLPE	Cross-linked polyethylene	**-55°C to 125°C**	Higher temperature rating than PVC
Silicone	Silicone	**-40°C to 150°C**	High-voltage material Excellent flexibility Excellent dielectric strength and resistance to radiation, corona, and ozone
PVDF	Polyvinylidene fluoride	**-40°C to 125°C**	Widely used in wire wrap applications
ETFE	Ethylene tetrafluoroethylene	**-70°C to 150°C**	
TGGT	Teflon glass glass teflon	**250°C**	High-temperature applications Chemically inert: excellent chemical and solvent resistance Moisture resistant Withstands mechanical abuse and repeated flexing
MG	Mica glass	**450°C**	High-temperature applications, such as heat-treating furnaces, kilns, and food service equipment Excellent thermal stability

Voltage	Insulation	Wire Range (AWG)		Approvals		Temperature Range
		Stranded	Solid	UL	CSA	
UL/CSA						
150	XL-PVC	26 - 16	—		AWM I A/B FT1	-55°C to 105°C
				AWM 1429		-55°C to 80°C
	XLPE	22 - 18	—	AWM 3265	I A/B FT1	-55°C to 125°C
300	PVC	30 - 16	24 - 16	AWM 1569		-40°C to 105°C
				AWM 1007		-40°C to 80°C
					TR-64	-40°C to 90°C
	SR-PVC	30 - 16	—	AWM 1061	I A/B FT1	-10°C to 80°C
	XL-PVC	26 - 16	—	AWM 1430	REW XL-PVC	-55°C to 105°C
	XLPE	22 - 18	—	AWM 3266	CL 1252 XLPE	-55°C to 125°C
	mPPE	28 - 10	—			-40°C to 110°C
	PTFE	24 - 8	—	AWM 1180		-60°C to 200°C
600	Fluoroplastic	30-16	36-32	AWM 11905, 11540 (30AWG and Larger)		-150°C to 300°C
	PVC	24 - 10	26 - 10	AWM 1015, 1230 MTW, THW, TW	TEW-105	-20°C to 105°C
		8 - 4/0	—	AWM 1242, 1284		-20°C to 105°C
	mPPE	28 - 10	18 , 14	AWM 11028	I A/B FT-1	-40°C to 105°C
	XLPE	18 - 10	—	AWM 3271	CL 1251 XLPE	-55°C to 125°C
	XLPE	20 - 2/0	—	AWM 3173, 3195, 3196, 3300 SIS Rated		-55°C to 125°C
	ETFE	24 - 4	—	SAE AS22759/16		-55°C to 150°C
	PTFE	26 - 8	—	SAE AS22759/11		-55°C to 200°C
	Silicone	22 - 4/0	—	AWM 3212, 3213, 3214	AWM I A/B	-40°C to 150°C
10,000+	Silicone	22 - 2	—	AWM 3239		-40°C to 150°C
Military						
250	PTFE	32 - 22	30 - 26	MIL-DTL-16878/6 (Type ET)		-60°C to 200°C
600	XL-PVC	26 - 16	—	MIL-DTL-16878/1 (Type B)		-55°C to 105°C
	PVC	32 - 14	—	MIL-DTL-16878/1 (Type B)		-55°C to 105°C
	PVC	14 - 8	—	MIL-W-76 Type HW		-20°C to 80°C
	PTFE	30 - 10	26 - 18	MIL-DTL-16878/4 (Type E)		-60°C to 200°C
1000	XL-PVC	26 - 16	—	MIL-DTL-16878/1 (Type C)		-55°C to 105°C
	PVC	24 - 12	24 - 18	MIL-DTL-16878/2 (Type C)		-40°C to 80°C
	XLPE	22 - 18	—	MIL-DTL-16878/2 (Type C)		-55°C to 105°C
	PTFE	24 - 8	—	MIL-DTL-16878/5 (Type EE)		-60°C to 200°C
3000	XLPE	18 - 10	—	MIL-DTL-16878/1 (Type D)		-55°C to 105°C
Wire Wrap						
	PVDF	—	30 - 24	AWM 1422, 1423		-40°C to 125°C
	ETFE	—	30 - 24	AWM 1516, 1523		-70°C to 150°C
Ribbon Cable: 5 to 30 Conductors						
150/300	PVC	26 - 22	—	AWM 2713, 2555		-55°C to 80°C
600/1000	PVC	26 - 22	—	MIL-DTL-16878/1 and /2 (Types B & C)		-55°C to 105°C
Bus Bar Wire						
	—	30 - 12	—	A-A59551		

ThermoThin Hook-Up Wire

600 V, Fluoroplastic



UL AWM 11905,
UL AWM 11540 (30 AWG and Larger)

Operating Temperature

- -150°C to 300°C

Materials

- Stranded or solid nickel-plated copper conductor
- Fluoroplastic insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
2636	36	0.013	Solid		0.006	0.15	0.017	0.430
2634	34	0.020	Solid		0.006	0.15	0.018	0.460
2632	32	0.032	Solid		0.006	0.15	0.020	0.510
2630	30	0.057	7/38	7/0.102	0.006	0.15	0.024	0.610
2628	28	0.089	7/36	7/0.127	0.006	0.15	0.027	0.690
2626	26	0.154	19/38	19/0.102	0.007	0.18	0.033	0.840
2624	24	0.241	19/36	19/0.127	0.007	0.18	0.038	0.970
2622	22	0.382	19/34	19/0.16	0.007	0.18	0.044	1.120
2620	20	0.616	19/32	19/0.203	0.007	0.18	0.052	1.320
2618	18	0.963	19/30	19/0.254	0.007	0.18	0.061	1.550
2616	16	1.320	19/0.0117	19/0.297	0.007	0.18	0.070	1.780

PVC Hook-Up Wire

300 V, PVC



UL AWM 1007, 1581, 1569
VW-1
CSA AWM I A/B FT1
CSA TR-64 FT1

Operating Temperature

- -40°C to 105°C (AWM 1569, CSA AWM)
- -40°C to 90°C (CSA TR-64)
- -40°C to 80°C (AWM 1007, 1581)

Materials

- Stranded or solid tinned copper conductor
- PVC insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Colors
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
3047	30	0.06	7/38	7 x 0.10	0.016	0.41	0.044	1.12	Z1, 1 - 10
3048	28	0.09	7/36	7 x 0.13	0.016	0.41	0.047	1.19	Z1, 1 - 10
3049	26	0.14	7/34	7 x 0.16	0.016	0.41	0.051	1.30	Z1, 1 - 10
3050/1	24	0.20	Solid	1 x 0.51	0.016	0.41	0.052	1.32	Z1, 1 - 10
3050	24	0.23	7/32	7 x 0.20	0.016	0.41	0.056	1.42	Z1, 1 – 19, 28, 30
892419†	24	0.24	19/36	19 x 0.13	0.016	0.41	0.057	1.45	Z2, 0 - 9
3051/1	22	0.32	Solid	1 x 0.64	0.016	0.41	0.057	1.45	Z1, 1 - 10
3051	22	0.35	7/30	7 x 0.25	0.016	0.41	0.062	1.57	Z1, 1 – 19, 28, 30
892219†	22	0.38	19/34	19 x 0.16	0.016	0.41	0.064	1.63	Z2, 0 - 9
3053	20	0.51	10/30	10 x 0.25	0.016	0.41	0.069	1.75	Z1, 1 – 19, 28, 30
3053/1	20	0.52	Solid	1 x 0.81	0.016	0.41	0.064	1.63	Z1, 1 - 10
892007†	20	0.56	7/28	7 x 0.32	0.016	0.41	0.070	1.78	Z2, 0 - 9
892019†	20	0.62	19/32	19 x 0.20	0.016	0.41	0.072	1.83	Z2, 0 - 9
3055	18	0.81	16/30	16 x 0.25	0.016	0.41	0.079	2.01	Z1, 1 – 19, 28, 30
3055/1	18	0.82	Solid	1 x 1.02	0.016	0.41	0.072	1.83	Z1, 1 - 10
891819†	18	0.96	19/30	19 x 0.25	0.016	0.41	0.082	2.08	Z2, 0 - 9
3057/1	16	1.31	Solid	1 x 1.29	0.016	0.41	0.083	2.11	Z1, 1 - 10
3057	16	1.32	26/30	26 x 0.25	0.016	0.41	0.092	2.34	Z1, 1 – 19, 28, 30
891441†	14	2.08	41/30	41 x 0.25	0.016	0.41	0.106	2.69	Z2, 0 - 9
891265*†	12	3.30	65/30	65 x 0.25	0.016	0.41	0.125	3.18	Z2, 0 - 9
891000*†	10	5.32	105/30	105 x 0.25	0.016	0.41	0.150	3.81	Z2, 0 - 9

*UL AWM 1581 and 1569. All others UL AWM 1007 and 1569.
†CSA AWM I A/B FT-1.

Insulation Colors Z1

1 White	5 Yellow	9 Slate	13 White/Green	17 White/Orange	29 Yellow/Green
2 Black	6 Blue	10 Violet	14 White/Yellow	18 White/Slate	30 Pink
3 Red	7 Brown	11 White/Black	15 White/Blue	19 White/Violet	
4 Green	8 Orange	12 White/Red	16 White/	28 Green/Yellow	

Insulation Colors Z2

0 Black	4 Yellow	8 Slate
1 Brown	5 Green	9 White
2 Red	6 Blue	
3 Orange	7 Violet	

These wires also available in 500 ft (152 m) put-ups.

CA PROP 65 RoHS Compliant

PVC Hook-Up Wire

300 V, Semirigid PVC



UL AWM 1061 VW-1
CSA AWM I A/B FT1

Operating Temperature

- -10°C to 80°C

Materials

- Stranded or solid tinned copper conductor
- Semirigid PVC insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Colors
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
422807	28	0.09	7/36	7 x 0.13	0.010	0.25	0.035	0.89	Z2
422801	28	0.08	Solid	1 x 0.32	0.010	0.25	0.033	0.84	Z2
422607	26	0.14	7/34	7 x 0.16	0.010	0.25	0.039	0.99	Z2
422601	26	0.13	Solid	1 x 0.40	0.010	0.25	0.036	0.91	Z2
3250	24	0.23	7/32	7 x 0.20	0.010	0.25	0.044	1.12	Z1
3251	22	0.35	7/30	7 x 0.25	0.010	0.25	0.050	1.27	Z1
422010	20	0.51	10/30	10 x 0.25	0.010	0.25	0.057	1.45	Z2
3252	20	0.56	7/28	7 x 0.32	0.010	0.25	0.058	1.47	Z1
422001	20	0.52	Solid	1 x 0.81	0.010	0.25	0.052	1.32	Z2
421816	18	0.81	16/30	16 x 0.25	0.010	0.25	0.067	1.70	Z2
3253	18	0.90	7/26	7 x 0.40	0.010	0.25	0.068	1.73	Z1
421626	16	1.32	26/30	26 x 0.25	0.010	0.25	0.080	2.03	Z2
3254	16	1.43	7/24	7 x 0.51	0.010	0.25	0.080	2.03	Z1

Insulation Colors Z1

1 White·	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	
4 Green	8 Orange	

Insulation Colors Z2

0 Black	4 Yellow	8 Slate
1 Brown	5 Green	9 White
2 Red	6 Blue	
3 Orange	7 Violet	

CA PROP 65 RoHS Compliant

PVC Hook-Up Wire

600 V, PVC



UL AWM 1015, 1028, 1230, 1231, 1232, 1283, 1284 VW-1
UL MTW, TW (14 to 8 AWG), THW (6 to 1/0 AWG)
CSA AWM I A/B FT1 and TEW-105

Operating Temperature

- -40°C to 105°C (AWM, TEW)
- -40°C to 90°C (MTW)
- -40°C to 75°C (THW)
- -40°C to 60°C (TW)

Materials

- Stranded bare copper conductor
- PVC insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		UL Style
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
461816	18	0.81	16/30	16 x 0.25	0.032	0.81	0.111	2.82	1015, 1230
461626	16	1.32	26/30	26 x 0.25	0.032	0.81	0.124	3.15	1015, 1230
461419	14	2.07	19/0.0147	19 x 0.37	0.032	0.81	0.138	3.51	1015, 1230
461219	12	3.29	19/0.0185	19 x 0.47	0.032	0.81	0.157	3.99	1015, 1230
461265	12	3.29	65/0.010	65 x 0.25	0.031	0.79	0.153	3.89	1015, 1230
461019	10	5.26	19/0.0234	19 x 0.59	0.032	0.81	0.181	4.60	1015, 1230
460819	8	8.38	19/0.0295	19 x 0.75	0.047	1.19	0.242	6.15	1028, 1231
460619	6	13.32	19/0.0372	19 x 0.94	0.063	1.59	0.311	7.90	1283, 1232
460419	4	21.09	19/0.0469	19 x 1.19	0.063	1.59	0.360	9.14	1283, 1232
460219	2	33.63	19/0.0591	19 x 1.50	0.063	1.59	0.421	10.69	1283, 1232

Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

CA PROP 65 RoHS Compliant

PVC Hook-Up Wire

600 V, PVC



UL AWM 1015, 1028, 1230, 1231, 1232, 1283, 1284 VW-1
UL MTW (22 to 4/0 AWG)
UL THW (6 to 1/0 AWG)
CSA AWM I A/B FT1 and TEW 105

Operating Temperature

- -20°C to 105°C (AWM, TEW)
- -20°C to 90°C (MTW)
- -20°C to 75°C (THW)
- -20°C to 60°C (TW)

Materials

- Stranded or solid tinned copper conductor
- PVC insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		UL Style	Colors
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm		
782607*	26	0.14	7/34	7 x 0.16	0.032	0.81	0.083	2.11	1015, 1230	Z2, 0 - 9
782401*	24	0.20	Solid	1 x 0.51	0.032	0.81	0.084	2.13	1015, 1230	Z2, 0 - 9
3070*	24	0.23	7/32	7 x 0.20	0.032	0.81	0.088	2.24	1015	Z1, 1 - 10, 28
782201	22	0.32	Solid	1 x 0.64	0.032	0.81	0.089	2.26	1015, 1230	Z2, 0 - 9
3071	22	0.35	7/30	7 x 0.25	0.032	0.81	0.094	2.39	1015	Z1, 1 - 10, 28
3073	20	0.51	10/30	10 x 0.25	0.032	0.81	0.101	2.57	1015	Z1, 1 - 10, 28
782001	20	0.52	Solid	1 x 0.81	0.032	0.81	0.096	2.44	1015, 1230	Z2, 0 - 9
3075	18	0.81	16/30	16 x 0.25	0.032	0.81	0.111	2.82	1015	Z1, 1 - 10, 28
781801	18	0.82	Solid	1 x 1.02	0.032	0.81	0.104	2.64	1015, 1230	Z2, 0 - 9
781601	16	1.31	Solid	1 x 1.29	0.032	0.81	0.115	2.92	1015, 1230	Z2, 0 - 9
3077	16	1.32	26/30	26 x 0.25	0.032	0.81	0.124	3.15	1015	Z1, 1 - 10, 28
781401	14	2.08	Solid	1 x 1.63	0.032	0.81	0.128	3.25	1015, 1230	Z2, 0 - 9
3079	14	2.08	41/30	41 x 0.25	0.032	0.81	0.138	3.51	1015	Z1, 1 - 10, 28
3080	12	3.29	65/30	65 x 0.25	0.032	0.81	0.157	3.99	1015	Z1, 1 - 10
781201	12	3.31	Solid	1 x 2.06	0.032	0.81	0.145	3.68	1015, 1230	Z2, 0 - 9
781001	10	5.26	Solid	1 x 2.59	0.032	0.81	0.166	4.22	1015, 1230	Z2, 0 - 9
3081	10	5.32	105/30	105 x 0.25	0.032	0.81	0.184	4.67	1015	Z1, 1 - 4
788133	8	8.61	133/29	133 x 0.29	0.047	1.19	0.263	6.68	1028, 1231	Z2, 0 - 9
786133	6	13.57	133/27	133 x 0.36	0.063	1.60	0.336	8.53	1283, 1232	Z2, 0 - 9
784133	4	21.55	133/25	133 x 0.45	0.063	1.60	0.395	10.03	1283, 1232	Z2, 0 - 9
782665	2	33.72	665/30	665 x 0.25	0.063	1.60	0.461	11.71	1283, 1232	Z2, 0 - 9
782133	2	34.45	133/23	133 x 0.57	0.063	1.60	0.465	11.81	1283, 1232	Z2, 0 - 9
781259	1	41.96	259/25	259 x 0.45	0.082	2.08	0.540	13.72	1284, 1232	Z2, 0 - 9
781836	1	42.39	836/30	836 x 0.25	0.082	2.08	0.547	13.89	1284, 1232	Z2, 0 - 9
780001	1/0	52.98	1045/30	1045 x 0.25	0.082	2.08	0.592	15.04	1284, 1232	Z2, 0 - 9

*Not MTW

Insulation Colors Z1

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	28 Green/Yellow
4 Green	8 Orange	29 Yellow/Green

Insulation Colors Z2

0 Black	4 Yellow	8 Slate
1 Brown	5 Green	9 White
2 Red	6 Blue	
3 Orange	7 Violet	

These wires also available in 500 ft (152 m) put-ups.

CA PROP 65 RoHS Compliant

PVC Hook-Up Wire

600 V, PVC



MIL-DTL-16878/1 (Type B)
MIL-W-76 Type LW

Operating Temperature

- -55°C to 105°C

Materials

- Stranded tinned copper conductor
- PVC insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Colors
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
1850	32	0.03	7/40	7 x 0.08	0.010	0.25	0.029	0.74	Z1, 1 - 6
1851*	30	0.06	7/38	7 x 0.10	0.010	0.25	0.032	0.81	Z1, 1 - 6
1852*	28	0.09	7/36	7 x 0.12	0.010	0.25	0.035	0.89	Z1, 1 - 10
1853*	26	0.14	7/34	7 x 0.16	0.010	0.25	0.039	0.99	Z1, 1 - 19
172619	26	0.15	19/38	19 x 0.10	0.010	0.25	0.040	1.02	Z2, 0 - 9
1854*	24	0.23	7/32	7 x 0.20	0.010	0.25	0.044	1.12	Z1, 1 - 19
1854/19	24	0.24	19/36	19 x 0.13	0.010	0.25	0.045	1.14	Z1, 1 - 19
1855	22	0.35	7/30	7 x 0.25	0.010	0.25	0.050	1.27	Z1, 1 - 19
1855/19	22	0.38	19/34	19 x 0.16	0.010	0.25	0.052	1.32	Z1, 1 - 19
1856*	20	0.56	7/28	7 x 0.32	0.010	0.25	0.058	1.47	Z1, 1 - 19
1856/19	20	0.62	19/32	19 x 0.20	0.010	0.25	0.060	1.52	Z1, 1 - 19
1857	18	0.90	7/26	7 x 0.40	0.010	0.25	0.068	1.73	Z1, 1 - 19
1857/19	18	0.96	19/30	19 x 0.25	0.010	0.25	0.070	1.78	Z1, 1 - 19
1858/19	16	1.23	19/29	19 x 0.29	0.010	0.25	0.076	1.93	Z1, 1 - 19
1859/19	14	1.94	19/27	19 x 0.36	0.010	0.25	0.091	2.31	Z1, 1 - 10

*Also meets MIL-W-76 Type LW

Insulation Colors Z1

1 White	5 Yellow	9 Slate	13 White/Green	17 White/Orange
2 Black	6 Blue	10 Violet	14 White/Yellow	18 White/Slate
3 Red	7 Brown	11 White/Black	15 White/Blue	19 White/Violet
4 Green	8 Orange	12 White/Red	16 White/Brown	

Insulation Colors Z2

0 Black	4 Yellow	8 Slate
1 Brown	5 Green	9 White
2 Red	6 Blue	
3 Orange	7 Violet	

CA PROP 65 RoHS Compliant

PVC Hook-Up Wire

600 V, PVC



Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
1579	14	2.08	41/30	41 x 0.25	0.045	1.14	0.164	4.17
1651	12	3.29	65/30	65 x 0.25	0.045	1.14	0.183	4.65
1653	10	5.32	105/30	105 x 0.25	0.045	1.14	0.210	5.33
1655	8	8.61	133/29	133 x 0.28	0.045	1.14	0.259	6.58

MIL-W-76 Type HW

Operating Temperature

- -20°C to 80°C

Materials

- Stranded tinned copper conductor
- PVC insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Insulation Colors Z1
White
Black
Red

CA PROP 65 RoHS Compliant

PVC/Nylon Hook-Up Wire

600 V, VC/Nylon



UL THHN, THWN, TFN, TFFN

Operating Temperature

- -40°C to 90°C (THHN, TFN, TFFN)
- -40°C to 75°C (THWN)

Materials

- Stranded or solid bare copper conductor
- PVC/nylon insulation

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		UL Style
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
541816	18	0.81	16/30	16 x 0.25	0.015	0.38	0.086	2.18	TFFN
541801	18	0.82	Solid	1 x 1.02	0.015	0.38	0.079	2.01	TFN
541626	16	1.32	26/30	26 x 0.25	0.015	0.38	0.099	2.51	TFFN
541419	14	2.07	19/0.0147	19 x 0.37	0.015	0.38	0.113	2.87	THHN, THWN
541401	14	2.08	Solid	1 x 1.63	0.015	0.38	0.103	2.62	THHN, THWN
541219	12	3.29	19/0.0185	19 x 0.47	0.015	0.38	0.132	3.35	THHN, THWN
541201	12	3.31	Solid	1 x 2.06	0.015	0.38	0.120	3.05	THHN, THWN
541019	10	5.26	19/0.0234	19 x 0.59	0.020	0.51	0.166	4.22	THHN, THWN
541001	10	5.26	Solid	1 x 2.59	0.020	0.51	0.141	3.58	THHN, THWN
540219	2	33.63	19/0.0591	19 x 1.50	0.040	1.02	0.390	9.91	THHN, THWN

Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

CA PROP 65 RoHS Compliant

PVC Hook-Up Wire

1000 V, PVC



MIL-W-76 B Type MW

Operating Temperature

- -40°C to 80°C

Materials

- Stranded or solid tinned copper conductor
- PVC insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Colors
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
1550	24	0.23	7/32	7 x 0.20	0.016	0.41	0.056	1.42	1 - 19
1561/24	24	0.20	Solid	1 x 0.51	0.016	0.41	0.052	1.32	1 - 6
1551	22	0.35	7/30	7 x 0.25	0.016	0.41	0.062	1.57	1 - 19
1561	22	0.32	Solid	1 x 0.64	0.016	0.41	0.057	1.45	1 - 6
1553	20	0.51	10/30	10 x 0.25	0.016	0.41	0.069	1.75	1 - 19
1563	20	0.52	Solid	1 x 0.81	0.016	0.41	0.064	1.63	1 - 6
1555	18	0.81	16/30	16 x 0.25	0.016	0.41	0.079	2.01	1 - 19
1565	18	0.82	Solid	1 x 1.02	0.016	0.41	0.072	1.83	1 - 6
1557	16	1.32	26/30	26 x 0.25	0.016	0.41	0.092	2.34	1 - 19
1559	14	2.08	41/30	41 x 0.25	0.016	0.41	0.106	2.69	1 – 10
1560	12	3.29	65/30	65 x 0.25	0.016	0.41	0.125	3.18	1 - 10

Insulation Colors

1 White	5 Yellow	9 Slate	13 White/Green	17 White/Orange
2 Black	6 Blue	10 Violet	14 White/Yellow	18 White/Slate
3 Red	7 Brown	11 White/Black	15 White/Blue	19 White/Violet
4 Green	8 Orange	12 White/Red	16 White/Brown	

CA PROP 65 RoHS Compliant

Irradiated PVC Hook-Up Wire

Soldering Iron Resistant
600/150 V, Irradiated PVC



MIL-DTL-16878/1 (Type B) (600 V)
UL AWM 1429 (150 V)
CSA AWM I A/B FT1 (150 V)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
7053	26	0.14	7/34	7 x 0.16	0.010	0.25	0.039	0.99
7054	24	0.23	7/32	7 x 0.20	0.010	0.25	0.044	1.12
7054/19	24	0.24	19/36	19 x 0.13	0.010	0.25	0.045	1.14
7055	22	0.35	7/30	7 x 0.25	0.010	0.25	0.050	1.27
7055/19	22	0.38	19/34	19 x 0.16	0.010	0.25	0.052	1.32
7056	20	0.56	7/28	7 x 0.32	0.010	0.25	0.058	1.47
7056/19	20	0.62	19/32	19 x 0.20	0.010	0.25	0.060	1.52
7057	18	0.90	7/26	7 x 0.40	0.010	0.25	0.068	1.73
7057/19	18	0.96	19/30	19 x 0.25	0.010	0.25	0.070	1.78
7058/19	16	1.32	19/0.0117	19 x 0.30	0.010	0.25	0.076	1.93

Operating Temperature

- -55°C to 105°C (MIL)
- -55°C to 80°C (AWM, CSA)

Materials

- Stranded tinned copper conductor
- Irradiated PVC insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Insulation Colors

White	Yellow	Slate
Black	Blue	Violet
Red	Brown	
Green	Orange	

CA PROP 65 RoHS Compliant

Irradiated PVC Hook-Up Wire

Soldering Iron Resistant
1000/300 V, Irradiated PVC



MIL-DTL-16878/2 (Type C) (1000 V)
UL AWM 1430 (300 V)
CSA REW XLPVC FT1 (300 V)

Operating Temperature

- -55°C to 105°C

Materials

- Stranded tinned copper conductor
- Irradiated PVC insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Colors
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
7130	24	0.23	7/32	7 x 0.20	0.016	0.41	0.056	1.42	1 – 10, 29
7131	22	0.35	7/30	7 x 0.25	0.016	0.41	0.062	1.57	1 – 10
7132	20	0.56	7/ 28	7 x 0.32	0.016	0.41	0.070	1.78	1 – 10
7133	18	0.89	7/26	7 x 0.40	0.016	0.41	0.080	2.03	1 – 10, 29
7134	16	1.32	19/0.0117	19 x 0.30	0.016	0.41	0.088	2.24	1 – 10, 29
7035*	14	2.07	19/0.0147	19 x 0.37	0.016	0.41	0.103	2.62	1 – 10, 29
7036*	12	3.29	19/0.0185	19 x 0.47	0.016	0.41	0.122	3.10	1 – 10, 29

*UL AWM 3317

Insulation Colors

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	29 Yellow/Green
4 Green	8 Orange	

CA PROP 65 RoHS Compliant

XLPE Hook-Up Wire

3000/600 V, XLPE



Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
7044	18	0.81	16/30	16 x 0.25	0.032	0.81	0.111	2.82
7045	16	1.32	26/30	26 x 0.25	0.032	0.81	0.119	3.02
7046	14	2.08	41/30	41 x 0.25	0.032	0.81	0.138	3.51
7047	12	3.29	65/30	65 x 0.25	0.032	0.81	0.155	3.94
7048	10	5.32	105/30	105 x 0.25	0.032	0.81	0.184	4.67

MIL-DTL-16878/4 (Type D) (3000 V)
UL AWM 3271 (600 V) VW-1
CSA CL 1251 XLPE (600 V)

Insulation Colors

White
Black
Red

Operating Temperature

- -55°C to 105°C (MIL)
- -55°C to 125°C (UL, CSA)

Materials

- Stranded tinned copper conductor
- Cross-linked polyolefin insulation

Availability

100 ft (30.5 m)
1000 ft (305 m)

1000/300 V, XLPE

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
7024	22	0.38	19/34	19 x 0.16	0.016	0.41	0.064	1.63
7025	20	0.62	19/32	19 x 0.20	0.016	0.41	0.072	1.83
7026	18	0.96	19/30	19 x 0.25	0.016	0.41	0.080	2.03

MIL-DTL-16878/2 (Type C) (1000 V)
UL AWM 3266 (300 V) VW-1
CSA CL 1252 XLPE (300 V)

Insulation Colors

White
Black
Red

Operating Temperature

- -55°C to 105°C (MIL)
- -55°C to 125°C (UL, CSA)

Materials

- Stranded tinned copper conductor
- Cross-linked polyolefin insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)

CA PROP 65 RoHS Compliant

XLPE Hook-Up Wire

600/150 V, XLPE



Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
7012	22	0.38	19/34	19 x 0.16	0.011	0.28	0.054	1.37
7013	20	0.62	19/32	19 x 0.20	0.011	0.28	0.06	1.52
7014	18	0.96	19/30	19 x 0.25	0.011	0.28	0.070	1.78

Insulation Colors

White
Black

MIL-DTL-16878/1 (Type B) (600 V)
UL AWM 3265 (150 V) VW-1
CSA AWM I A/B FT1 (150 V)

Operating Temperature

- -55°C to 105°C (MIL)
- -55°C to 125°C (UL, CSA)

Materials

- Stranded tinned copper conductor
- Cross-linked polyolefin insulation

Availability

1,000 ft (305 m)

600 V, XLPE



Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
752010	20	0.51	10/30	10 x 0.25	0.031	0.79	0.099	2.51
751816	18	0.81	16/30	16 x 0.25	0.031	0.79	0.109	2.77
751626	16	1.32	26/30	26 x 0.25	0.031	0.79	0.122	3.10
751441*	14	2.08	41/30	41 x 0.25	0.031	0.79	0.136	3.45
751265*	12	3.29	65/30	65 x 0.25	0.031	0.79	0.155	3.94
751000*	10	5.32	105/30	105 x 0.25	0.031	0.79	0.180	4.57

*UL SIS.

Insulation Colors

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	
4 Green	8 Orange	

UL AWM 3173 UL SIS
CSA AWM I A/B FT2
CSA CL1251 XLPE

Operating Temperature

- -40°C to 125°C (AWM)
- -40°C to 150°C (CSA CL)
- -40°C to 90°C (SIS)

Materials

- Stranded tinned copper conductor
- Cross-linked polyolefin insulation

Availability

1,000 ft (305 m)

CA PROP 65 RoHS Compliant

PTFE Hook-Up Wire

250 V, PTFE



MIL-DTL-16878/6 (Type ET)
UL VW-1
NEMA HP3

Operating Temperature

- **-60°C to 200°C**

Materials

- **Stranded or solid silver-plated copper conductor**
- **PTFE insulation**

Availability

100 ft (30.5 m)
1,000 ft (305 m)*
*May contain multiple lengths

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		NEMA HP3	Colors
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm		
33201	32	0.03	Solid	1 x 0.20	0.006	0.15	0.019	0.48	—	Z2
2840/7	32	0.03	7/40	7 x 0.08	0.006	0.15	0.022	0.56	ETXBAB	Z1
2841/7	30	0.06	7/38	7 x 0.10	0.006	0.15	0.024	0.61	ETXBBB	Z1
2841/1	30	0.05	Solid	1 x 0.25	0.006	0.15	0.022	0.56	ETXBBA	Z1
2842/7	28	0.09	7/36	7 x 0.12	0.006	0.15	0.027	0.69	ETXBCB	Z1
2842/19	28	0.09	19/40	19 x 0.08	0.006	0.15	0.027	0.69	ETXBCE	Z1
2842/1	28	0.08	Solid	1 x 0.32	0.006	0.15	0.025	0.64	ETXBCA	Z1
2843/7	26	0.14	7/34	7 x 0.16	0.006	0.15	0.031	0.79	ETXBDB	Z1
2843/19	26	0.15	19/38	19 x 0.10	0.006	0.15	0.031	0.79	ETXBDE	Z1
2843/1	26	0.13	Solid	1 x 0.40	0.006	0.15	0.028	0.71	ETXBDA	Z1
2844/7	24	0.23	7/32	7 x 0.20	0.006	0.15	0.036	0.91	ETXBEB	Z1
2844/19	24	0.24	19/36	19 x 0.13	0.006	0.15	0.036	0.91	ETXBEE	Z1
2845/7	22	0.35	7/30	7 x 0.25	0.006	0.15	0.042	1.07	ETXBFB	Z1
2845/19	22	0.38	19/34	19 x 0.16	0.005	0.13	0.042	1.07	ETXBFE	Z1

Insulation Colors Z1

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	
4 Green	8 Orange	

Insulation Colors Z2

0 Black	4 Yellow	8 Slate
1 Brown	5 Green	9 White
2 Red	6 Blue	
3 Orange	7 Violet	

These wires also available in 500 ft (152 m) put-ups.

CA PROP 65 RoHS Compliant

PTFE Hook-Up Wire

600 V, PTFE



MIL-DTL-16878/4 (Type E) (600 V)
UL AWM 1213*
NEMA HP3

Operating Temperature

- -60°C to 200°C (MIL)
- -60°C to 105°C (UL)

Materials

- Stranded or solid silver-plated copper conductor
- PTFE insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)*
**May contain multiple lengths

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		NEMA HP3
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
5851	30	0.06	7/38	7 x 0.10	0.010	0.25	0.032	0.81	EXBBB
5852	28	0.09	7/36	7 x 0.13	0.010	0.25	0.035	0.89	EXBCB
5853	26	0.14	7/34	7 x 0.16	0.010	0.25	0.039	0.99	EXBDB
5853/19	26	0.15	19/38	19 x 0.10	0.010	0.25	0.039	0.99	EXBDE
2853/1	26	0.13	Solid	1 x 0.40	0.010	0.25	0.036	0.91	EXBDA
5854	24	0.24	19/36	19 x 0.13	0.010	0.25	0.044	1.12	EXBEE
5854/7	24	0.23	7/32	7 x 0.20	0.010	0.25	0.044	1.12	EXBEB
2854/1	24	0.20	Solid	1 x 0.51	0.010	0.25	0.040	1.02	EXBEA
5855	22	0.38	19/34	19 x 0.16	0.010	0.25	0.050	1.27	EXBFE
5855/7	22	0.35	7/30	7 x 0.25	0.010	0.25	0.050	1.27	EXBFB
2855/1	22	0.32	Solid	1 x 0.64	0.010	0.25	0.045	1.14	EXBFA
5856	20	0.62	19/32	19 x 0.20	0.010	0.25	0.058	1.47	EXBGE
5856/7	20	0.56	7/28	7 x 0.32	0.010	0.25	0.058	1.47	EXBGB
2856/1* **	20	0.52	Solid	1 x 0.81	0.010	0.25	0.052	1.32	EXBGA
5857	18	0.96	19/30	19 x 0.25	0.010	0.25	0.069	1.75	EXBHE
2857/1* **	18	0.82	Solid	1 x 1.02	0.011	0.27	0.061	1.55	EXBHA
5858	16	1.23	19/29	19 x 0.29	0.012	0.30	0.080	2.03	EXBJE
5859†	14	1.94	19/27	19 x 0.36	0.012	0.30	0.095	2.41	EXBKE
5859/12†	12	3.08	19/25	19 x 0.45	0.012	0.30	0.114	2.90	EXBLE
5859/10†	10	4.74	37/26	37 x 0.40	0.012	0.30	0.134	3.40	EXBMG

*Voltage rating not specified.
***White, black, red only.
†Colors 1-5 only, not UL AWM 1213.

Insulation Colors

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	
4 Green	8 Orange	

CA PROP 65 RoHS Compliant

PTFE Hook-Up Wire

1000/300 V, PTFE



MIL-DTL-16878/5 (TYPE EE) (1000V)
UL AWM 1180 (300V)
NEMA HP3

Operating Temperature

- **-60°C to 200°C**

Materials

- **Stranded silver-plated copper conductor**
- **PTFE insulation**

Availability

100 ft (30.5 m)
1,000 ft (305 m)*
***May contain multiple lengths

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		NEMA HP3
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
5874	24	0.24	19/36	19 x 0.13	0.015	0.37	0.054	1.37	EEXBEE
5875	22	0.38	19/34	19 x 0.16	0.014	0.36	0.060	1.52	EEXBFE
5876	20	0.62	19/32	19 x 0.20	0.014	0.36	0.068	1.73	EEXBGE
5877	18	0.96	19/30	19 x 0.25	0.015	0.37	0.079	2.01	EEXBHE
5878	16	1.23	19/29	19 x 0.29	0.016	0.41	0.089	2.26	EEXBJE
5879	14	1.94	19/27	19 x 0.36	0.017	0.43	0.106	2.69	EEXBKE
5879/10	10	4.74	37/26	37 x 0.40	0.017	0.43	0.145	3.68	EEXBMG
5879/12	12	3.08	19/25	19 x 0.45	0.017	0.43	0.125	3.18	EEXBLE
5879/8*	8	8.61	133/29	133 x 0.29	0.020	0.51	0.209	5.31	EEXBNL

*Not UL AWM 1180.

Insulation Colors

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	
4 Green	8 Orange	

Parts 5878, 5879, 5879/8, 5879/10, 5879/12: white only.

CA PROP 65 RoHS Compliant

ETFE/PTFE Hook-Up Wire

600 V, ETFE or PTFE



SAE AS22759/11
(MIL-DTL-22759/11)
SAE AS22759/16
(MIL-DTL-22759/16)

Operating Temperature

- -55°C to 200°C (PTFE)
- -55°C to 150°C (ETFE)

Materials

- Stranded silver-plated copper conductors (SAE AS22759/11)
- Stranded tinned copper conductor (SAE AS22759/16)
- ETFE or PTFE insulation

Availability

100 ft (30.5 m)
1,000 ft (305 m)*
**May contain multiple lengths

PTFE, SAE AS22759/11, -55°C to +200°C, Silver-Plated Copper Conductors

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
AT261938	26	0.15	19/38	19 x 0.10	0.010	0.25	0.038	0.97
AT241936	24	0.24	19/36	19 x 0.13	0.009	0.23	0.043	1.09
AT221934	22	0.38	19/34	19 x 0.16	0.009	0.23	0.049	1.24
AT201932	20	0.62	19/32	19 x 0.20	0.011	0.28	0.058	1.47
AT181930	18	0.96	19/30	19 x 0.25	0.010	0.25	0.068	1.73
AT161929	16	1.23	19/29	19 x 0.29	0.010	0.25	0.075	1.90
AT141927	14	1.94	19/27	19 x 0.36	0.011	0.27	0.090	2.29
AT121925	12	3.08	19/25	19 x 0.45	0.013	0.32	0.111	2.82

ETFE, SAE AS22759/16, -55°C to +150°C, Tinned Copper Conductors

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
AZ241936	24	0.24	19/36	19 x 0.13	0.011	0.27	0.045	1.14
AZ221934	22	0.38	19/34	19 x 0.16	0.011	0.28	0.052	1.32
AZ201932	20	0.62	19/32	19 x 0.20	0.011	0.28	0.060	1.52
AZ181930	18	0.96	19/30	19 x 0.25	0.012	0.29	0.071	1.80
AZ161929	16	1.23	19/29	19 x 0.29	0.013	0.33	0.079	2.01
AZ141927	14	1.94	19/27	19 x 0.36	0.013	0.33	0.093	2.36
AZ123728	12	2.97	37/28	37 x 0.32	0.014	0.34	0.114	2.90

Insulation Colors

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	
4 Green	8 Orange	

CA PROP 65 RoHS Compliant

PVDF/ETFE Hook-Up Wire

PVDF or ETFE



UL 1422, 1423, 1516, 1523
VW-1

Operating Temperature

- -40°C to 125°C (PVDF)
- -70°C to 150°C (ETFE)

Materials

- Silver-plated solid copper conductors
- PVDF or ETFE insulation

Availability

100 ft (30.5 m) (ETFE)
1,000 ft (305 m) (PVDF or ETFE)

PVDF Insulation

Part No.	Wire Size		Insulation Thickness		Nominal Diameter		UL Style
	AWG	mm²	Inch	mm	Inch	mm	
5951	30	0.05	0.005	0.11	0.019	0.51	1423
5952	28	0.08	0.006	0.14	0.024	0.61	1422
5953	26	0.13	0.006	0.14	0.027	0.69	1422
5954	24	0.20	0.005	0.11	0.030	0.76	1423

ETFE Insulation

Part No.	Wire Size		Insulation Thickness		Nominal Diameter		UL Style
	AWG	mm²	Inch	mm	Inch	mm	
1805	30	0.05	0.005	0.11	0.020	0.51	1516
1806	28	0.08	0.006	0.14	0.024	0.61	1523
1807	26	0.13	0.006	0.14	0.027	0.69	1523
1808	24	0.20	0.005	0.11	0.030	0.76	1516

Insulation Colors

1 White	5 Yellow	9 Slate
2 Black	6 Blue	10 Violet
3 Red	7 Brown	
4 Green	8 Orange	

CA PROP 65 RoHS Compliant

EcoWire® & EcoWire® Metric 600 V

600 V, mPPE

Innovative EcoWire combines increased performance with minimal environmental impact.

Compared to PVC wire, EcoWire's mPPE insulation allows wire that is:

- Up to 45% smaller in diameter
- Up to 40% lighter
- Zero halogen, with no heavy metal pigments
- 100% recyclable

Operation Temperature

-40°C to 105°C (EcoWire)

-40°C to 110°C (EcoWire Plus)

Materials

- Stranded or solid tinned copper conductors
- mPPE insulation

Approvals

- UL AWM 11028 VW-1
- CSA AWM I A/B FT1
- IEC 60332-2 flame behavior
- RoHS compliant
- REACH compliant
- Zero halogen
- CE compliant



Availability

100 ft (30.5 m)

1,000 ft (305 m)

5,000 ft (1,524 m)

25,000 ft (7,620 m) drum

EcoWire

Part No.	Conductor Size		Stranding		Insulation Thickness		Wire Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
6710	28	0.08	7/36	7 x 0.12	0.010	0.25	0.034	0.86
6711	26	0.13	7/34	7 x 0.16	0.010	0.25	0.038	0.97
6712	24	0.20	7/32	7 x 0.20	0.010	0.25	0.043	1.09
6713	22	0.32	7/30	7 x 0.25	0.010	0.25	0.049	1.24
6714	20	0.52	10/30	10 x 0.25	0.010	0.25	0.055	1.40
6715	18	0.82	16/30	16 x 0.25	0.010	0.25	0.067	1.70
6715S	18	0.82	Solid	Solid	0.010	0.25	0.059	1.50
6716	16	1.30	26/30	26 x 0.25	0.011	0.28	0.081	2.06
6717	14	2.08	41/30	41 x 0.25	0.011	0.28	0.096	2.44
6717S	14	2.08	Solid	Solid	0.011	0.28	0.086	2.18
6718	12	3.30	65/30	65 x 0.25	0.012	0.30	0.117	2.97
6719	10	5.26	105/30	105 x 0.25	0.012	0.30	0.142	3.66

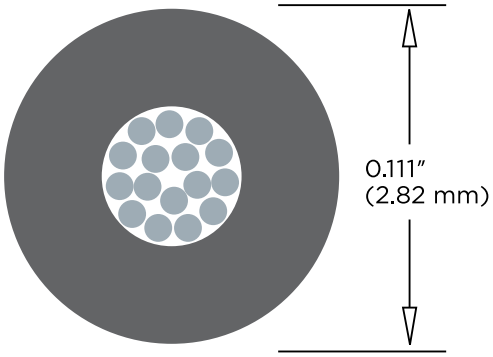
White, Black, Red, Green, Yellow, Blue, Brown, Orange, Slate, Violet, Yellow/Green, Dark Blue

EcoWire Metric

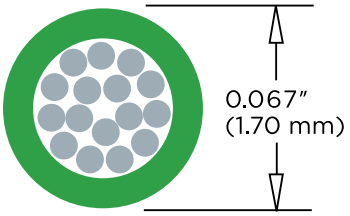
Part No.	Conductor Size	Stranding	Insulation Thickness	Wire Diameter
	mm²	mm	mm	mm
67025	0.25	32/0.10	0.25	1.14
67050	0.50	28/0.16	0.25	1.43
67075	0.75	42/0.16	0.25	1.65
67010	1.00	56/0.16	0.28	1.88
67150	1.50	84/0.16	0.28	2.18
67250	2.50	140/0.16	0.31	2.71

White, Black, Red, Green, Yellow, Blue, Brown, Orange, Violet, Yellow/Green

18 AWG (0.82 mm²) Wire



PVC



EcoWire

EcoWire® Plus 300 V

300 V, mPPE

EcoWire Plus offers all the benefits of EcoWire, plus higher temperature range and additional fluid resistance for demanding factory applications.

Compared to PVC wire, EcoWire's mPPE insulation allows wire that is:

- Up to 45% smaller in diameter
- Up to 40% lighter
- Zero halogen, with no heavy metal pigments
- 100% recyclable

Operation Temperature

-40°C to 105°C (EcoWire)

-40°C to 110°C (EcoWire Plus)

Materials

- Stranded or solid tinned copper conductors
- mPPE insulation

Approvals

- IEC 60332-2 flame behavior
- RoHS compliant
- REACH compliant
- Zero halogen
- CE compliant
- Suitable for ISO 6722

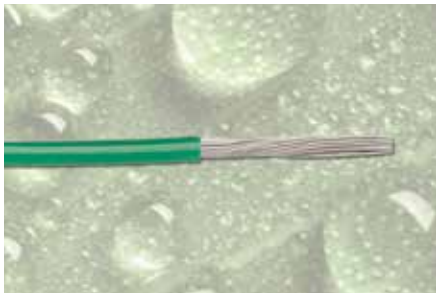
Availability

100 ft (30.5 m)

1,000 ft (305 m)

5,000 ft (1,524 m)

25,000 ft (7,620 m) drum



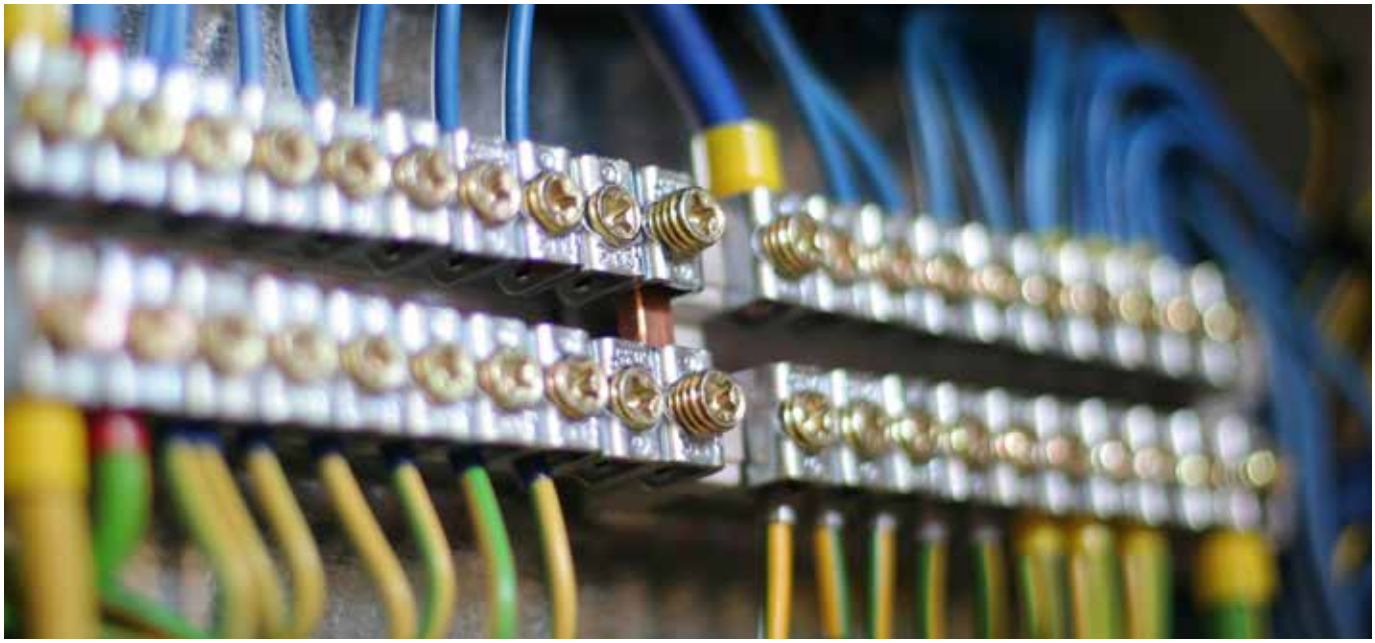
EcoWire Plus

Part No.	Conductor Size			Stranding		Insulation Thickness		Wire Diameter	
	AWG	mm²	ISO mm Equiv	AWG	mm	Inch	mm	Inch	mm
6820	28	0.09	—	7/36	7 x 0.12	0.008	0.20	0.031	0.79
6821	26	0.14	0.13	7/34	7 x 0.16	0.008	0.20	0.035	0.89
6822	24	0.23	0.22	7/32	7 x 0.20	0.008	0.20	0.040	1.02
6823	22	0.35	0.35	7/30	7 x 0.25	0.008	0.20	0.046	1.17
6824	20	0.56	0.5	7/28	7 x 0.32	0.008	0.20	0.054	1.37
6825	18	0.81	0.75	19/0.0092	19 x 0.23	0.008	0.20	0.062	1.57
6826	17	0.96	1	19/30	19 x 0.25	0.008	0.20	0.066	1.68
6827	16	1.23	—	19/29	19 x 0.29	0.010	0.24	0.077	1.96
6828	15	1.53	1.5	19/28	19 x 0.32	0.010	0.24	0.083	2.11
6829	14	1.94	2	19/27	19 x 0.36	0.012	0.30	0.095	2.41
6830	12	3.08	3	19/25	19 x 0.46	0.015	0.38	0.120	3.05
6831	10	4.92	5	19/23	19 x 0.57	0.017	0.43	0.147	3.73

White, Black, Red, Green, Yellow, Blue, Brown, Orange, Green/Yellow

H05V-K & H07V-K Hook-Up Wire

300/500 V & 450/750 V PVC



Solutions

H05V-K & H07V-K Hook-Up Wire is suitable for applications that laid in pipes, exposed or buried in cement or installed in sealed pipes, it can also be used for wire harness installations in switchgear cabinet.

Key Features

- 0.5 mm^2 - 185 mm^2
- Single conductor - stranded bare copper (DIN VDE 0295 Class 5, UL758)
- PVC insulation
- Black, Blue, Brown, Red, Green, White, Yellow, Yellow/Green

Applications

- Internal wiring of electrical appliances
- Internal wiring of electronics and electrical equipment
- Switches, PCB boards, wiring boards in production facilities
- Internal wiring of industrial machine tools and equipment
- Internal wiring of electric tools
- Internal wiring of medical equipment
- Installation wiring of sealed pipes
- Internal wiring of vending machines and ATM

Compliant with following International standards:

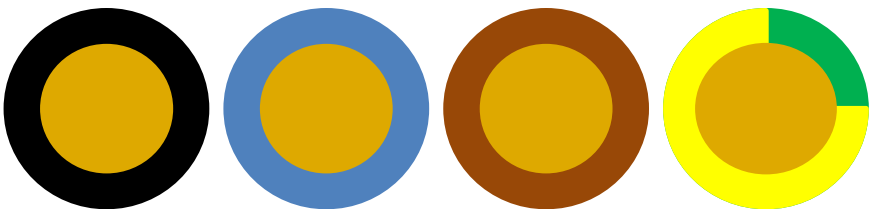
DIN VDE 0295, IEC 60228, BS 6360, UL1581

DIN EN 50290-2-22(TM54) , DIN VDE 0270-363-3

IEC 60227-3, EN 50525-2-31, HD 21.3, VDE 0281, UL 758

DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2

RoHS, CE & REACH



H05V-K Hook-Up Wire

300/500 V PVC

Conductor Material	Stranded bare copper (DIN VDE 0295 Class 5)
Insulation Material	PVC (polyvinyl chloride)
Color	Black, Blue, Brown, Red, Green, White, Yellow, Yellow/Green
Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2, VW-1
Voltage Rating (Uo/U)	300/500 V
Oil Resistance	DIN EN 50290-2-22 (TM54)
Temperature Range	–20°C to 70°C(IEC/EN) –20°C to 105°C(UL) (occasional movement) –30°C to 80°C(IEC/EN) –30°C to 105°C(UL) (fixed installation)
Bending Radius	4 x OD (fixed installation) 8 x OD (occasional movement)
Other Properties	Good UV resistance, chemical resistance & flexibility
Availability	100 m, 300 m, Bulk

General Reference Standards

DIN VDE 0295, IEC 60228, BS6360, UL1581
DIN EN 50290-2-22 (TM54), DIN VDE 0207-363-3
IEC 60227-3, EN 50525-2-31, HD 21.3, VDE 0281, UL 758
DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
RoHS, REACH & CE Directives

H05V-K					
Part No.	Size (mm^2)	Standard & Approval	Stranding Conductor (mm)	Nominal Diameter (mm)	Voltage Rating
3150	0.5	H05V-K & UL AWM 1569	20/0.177	2.10	300/500V & 300V(UL)
3175	0.75	H05V-K & UL AWM 1569	30/0.177	2.30	300/500V & 300V(UL)
3110	1	H05V-K & UL AWM 1569	30/0.20	2.46	300/500V & 300V(UL)

H07V-K Hook-Up Wire

450/750 V PVC

Conductor Material	Stranded bare copper (DIN VDE 0295 Class 5)
Insulation Material	PVC (polyvinyl chloride).
Color	Black, Blue, Brown, Red, Green, White, Yellow, Yellow/Green
Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2, VW-1
Voltage Rating (Uo/U)	450/750 V
Oil Resistance	DIN EN 50290-2-22 (TM54)
Temperature Range	–20°C to 70°C(IEC/EN) –20°C to 105°C(UL) (occasional movement) –30°C to 80°C(IEC/EN) –30°C to 105°C(UL) (fixed installation)
Bending Radius	4 x OD (fixed installation) 8 x OD (occasional movement)
Other Properties	Good UV resistance, chemical resistance & flexibility
Availability	100 m, 300 m, Bulk

General Reference Standards

DIN VDE 0295, IEC 60228, BS6360, UL1581
DIN EN 50290-2-22 (TM54), DIN VDE 0207-363-3
IEC 60227-3, EN 50525-2-31, HD 21.3, VDE 0281, UL 758
DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
RoHS, REACH & CE Directives

H07V-K					
Part No.	Size (mm^2)	Standard & Approval	Stranding Conductor (mm)	Nominal Diameter (mm)	Voltage Rating
3111	1.5	H07V-K & UL AWM 10669	28/0.25	3.30	450/750V & 600V(UL)
3112	2.5	H07V-K & UL AWM 10669	47/0.25	3.70	450/750V & 600V(UL)
3113	4	H07V-K & UL AWM 10669	56/0.30	4.30	450/750V & 600V(UL)
3114	6	H07V-K & UL AWM 10669	84/0.30	4.90	450/750V & 600V(UL)
3115	10	H07V-K	80/0.39	6.20	450/750V
3116	16	H07V-K	126/0.40	7.50	450/750V
3117	25	H07V-K	196/0.40	9.10	450/750V
3118	35	H07V-K	260/0.40	10.10	450/750V
3119	50	H07V-K	371/0.40	12.30	450/750V
3120	70	H07V-K	330/0.50	14.20	450/750V
3121	95	H07V-K	427/0.50	17.00	450/750V
3122	120	H07V-K	551/0.50	18.90	450/750V
3123	150	H07V-K	684/0.50	21.0	450/750V
3124	185	H07V-K	19/49/0.50	24.70	450/750V

Silicone Rubber Hook-Up Wire

Test Lead Wire
1500 V - 5000 V, EPR Rubber



Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Breakdown Voltage (RMS)	Working Voltage (RMS)
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm		
1632	20	0.52	41/36	41 x 0.13	0.040	1.02	0.118	3.00	6000	1,500
1635	20	0.52	41/36	41 x 0.13	0.047	1.19	0.132	3.35	12,000	3,000
1636	18	0.83	65/36	65 x 0.13	0.045	1.14	0.137	3.48	20,000	5,000

Operating Temperature

- -30°C to 90°C

Voltage Rating

- See table

Materials

- Stranded tinned copper conductors
- EPR rubber insulation

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Insulation Colors

Black
Red

RoHS Compliant

Silicone Rubber Hook-Up Wire

600 V, Silicone Rubber



UL AWM 3212, 3213, 3214
CSA AWM I A/B FT2

Operating Temperature

- -40°C to 150°C

Materials

- Stranded tinned copper conductor
- Silicone rubber insulation

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		UL AWM
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
392207	22	0.35	7/30	7 x 0.25	0.047	1.19	0.124	3.15	3212
392010	20	0.51	10/30	10 x 0.25	0.047	1.19	0.131	3.33	3212
391816	18	0.81	16/30	16 x 0.25	0.047	1.19	0.141	3.58	3212
391626	16	1.32	26/30	26 x 0.25	0.047	1.19	0.154	3.91	3212
391441	14	2.08	41/30	41 x 0.25	0.047	1.19	0.168	4.27	3212
391265	12	3.29	65/30	65 x 0.25	0.047	1.19	0.187	4.75	3212
391000	10	5.32	105/30	105 x 0.25	0.047	1.19	0.212	5.38	3212
398133	8	8.61	133/29	133 x 0.29	0.063	1.60	0.295	7.49	3213
396133	6	13.57	133/27	133 x 0.36	0.063	1.60	0.339	8.61	3213
394133	4	21.55	133/25	133 x 0.45	0.063	1.60	0.395	10.03	3213
392259	2	33.15	259/26	259 x 0.40	0.063	1.60	0.460	11.68	3213
391259	1	41.96	259/25	259 x 0.45	0.078	1.98	0.532	13.51	3214

Insulation Colors

Black
White

CA PROP 65 RoHS Compliant

Silicone Rubber Hook-Up Wire

10 KV - 40 KV, Silicone Rubber



UL AWM 3239

Operating Temperature

- -40°C to 150°C

Materials

- Stranded tinned copper conductor
- Silicone rubber insulation

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Voltage
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
392297	22	0.35	7/30	7 x 0.25	0.097	2.46	0.224	5.69	40 kV
392275	22	0.35	7/30	7 x 0.25	0.075	1.90	0.180	4.57	30 kV
392262	22	0.35	7/30	7 x 0.25	0.062	1.57	0.154	3.91	25 kV
392250	22	0.35	7/30	7 x 0.25	0.050	1.27	0.131	3.33	20 kV
392245	22	0.35	7/30	7 x 0.25	0.045	1.14	0.120	3.05	15 kV
392240	22	0.35	7/30	7 x 0.25	0.040	1.02	0.11	2.79	10 kV
392097	20	0.51	10/30	10 x 0.25	0.097	2.46	0.231	5.87	40 kV
392075	20	0.51	10/30	10 x 0.25	0.075	1.90	0.187	4.75	30 kV
392062	20	0.51	10/30	10 x 0.25	0.062	1.57	0.161	4.09	25 kV
392050	20	0.51	10/30	10 x 0.25	0.050	1.27	0.137	3.48	20 kV
392045	20	0.51	10/30	10 x 0.25	0.045	1.14	0.127	3.23	15 kV
392040	20	0.51	10/30	10 x 0.25	0.040	1.02	0.117	2.97	10 kV
391897	18	0.81	16/30	16 x 0.25	0.097	2.46	0.241	6.12	40 kV
391875	18	0.81	16/30	16 x 0.25	0.075	1.90	0.197	5.00	30 kV
391862	18	0.81	16/30	16 x 0.25	0.062	1.57	0.171	4.34	25 kV
391850	18	0.81	16/30	16 x 0.25	0.050	1.27	0.147	3.73	20 kV
391845	18	0.81	16/30	16 x 0.25	0.045	1.14	0.137	3.48	15 kV
391840	18	0.81	16/30	16 x 0.25	0.040	1.02	0.127	3.23	10 kV
391699	16	1.32	26/30	26 x 0.25	0.150	3.81	0.360	9.14	50 kV
391697	16	1.32	26/30	26 x 0.25	0.097	2.46	0.254	6.45	40 kV
391675	16	1.32	26/30	26 x 0.25	0.075	1.90	0.210	5.33	30 kV
391662	16	1.32	26/30	26 x 0.25	0.062	1.57	0.184	4.67	25 kV
391650	16	1.32	26/30	26 x 0.25	0.050	1.27	0.160	4.06	20 kV
391645	16	1.32	26/30	26 x 0.25	0.045	1.14	0.150	3.81	15 kV
391640	16	1.32	26/30	26 x 0.25	0.040	1.02	0.140	3.56	10 kV
391499	14	2.08	41/30	41 x 0.25	0.150	3.81	0.374	9.50	50 kV
391497	14	2.08	41/30	41 x 0.25	0.097	2.46	0.268	6.81	40 kV
391475	14	2.08	41/30	41 x 0.25	0.075	1.90	0.224	5.69	30 kV
391462	14	2.08	41/30	41 x 0.25	0.062	1.57	0.198	5.03	25 kV
391450	14	2.08	41/30	41 x 0.25	0.050	1.27	0.174	4.42	20 kV
391445	14	2.08	41/30	41 x 0.25	0.045	1.14	0.164	4.17	15 kV
391440	14	2.08	41/30	41 x 0.25	0.040	1.02	0.154	3.91	10 kV

Insulation Colors

Black
White
Red

UL LISTED CA PROP 65 RoHS Compliant

Silicone Rubber Hook-Up Wire

10 KV - 40 KV, Silicone Rubber



UL AWM 3239

Operating Temperature

- -40°C to 150°C

Materials

- Stranded tinned copper conductor
- Silicone rubber insulation

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Voltage
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm	
391297	12	3.29	65/30	65 x 0.25	0.097	2.46	0.287	7.29	40 kV
391275	12	3.29	65/30	65 x 0.25	0.075	1.90	0.243	6.17	30 kV
391262	12	3.29	65/30	65 x 0.25	0.062	1.57	0.217	5.51	25 kV
391250	12	3.29	65/30	65 x 0.25	0.050	1.27	0.193	4.90	20 kV
391245	12	3.29	65/30	65 x 0.25	0.045	1.14	0.183	4.65	15 kV
391099	10	5.32	105/30	105 x 0.25	0.150	3.81	0.418	10.62	50 kV
391097	10	5.32	105/30	105 x 0.25	0.097	2.46	0.312	7.92	40 kV
391045	10	5.32	105/30	105 x 0.25	0.045	1.14	0.208	5.28	15 kV
391040	10	5.32	105/30	105 x 0.25	0.040	1.02	0.198	5.03	10 kV
390897	8	8.61	133/29	133 x 0.28	0.097	2.46	0.363	9.22	40 kV
390862*	8	8.61	133/29	133 x 0.28	0.062	1.57	0.293	7.44	25 kV
390845	8	8.61	133/29	133 x 0.28	0.045	1.14	0.259	6.58	15 kV
390662*	6	13.57	133/27	133 x 0.36	0.062	1.57	0.337	8.56	25 kV
390645	6	13.57	133/27	133 x 0.36	0.045	1.14	0.303	7.70	15 kV
390462*	4	21.55	133/25	133 x 0.45	0.062	1.57	0.393	9.98	25 kV

*Not UL Recognized.

Insulation Colors

Black
White

Silicone Rubber Hook-Up Wire

5 KV - 60 KV, Silicone Rubber



UL VW-1

Operating Temperature

- -40°C to 200°C

Materials

- Stranded silver-plated copper conductor
- White silicone rubber insulation

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter		Voltage
		mm²	AWG	mm	Inch	mm	Inch	mm	
39X2220	22	0.35	7/30	7 x 0.25	0.050	1.27	0.130	3.30	20 kV
39X2215	22	0.35	7/30	7 x 0.25	0.040	1.02	0.110	2.79	15 kV
39X2205	22	0.35	7/30	7 x 0.25	0.020	0.51	0.070	1.78	5 kV
39X2025	20	0.62	19/32	19 x 0.20	0.063	1.60	0.166	4.22	25 kV
39X2020	20	0.62	19/32	19 x 0.20	0.055	1.40	0.150	3.81	20 kV
39X2015	20	0.62	19/32	19 x 0.20	0.040	1.02	0.120	3.05	15 kV
39X1825	18	0.96	19/30	19 x 0.25	0.055	1.40	0.160	4.06	25 kV
39X1660	16	1.32	26/30	26 x 0.25	0.162	4.11	0.384	9.75	60 kV
39X1645	16	1.23	19/29	19 x 0.28	0.125	3.18	0.306	7.77	45 kV
39X1635	16	1.23	41/32	41 x 0.20	0.105	2.67	0.269	6.83	35 kV
39X1620	16	1.33	41/32	41 x 0.20	0.053	1.33	0.164	4.17	20 kV
39X1460	14	1.94	19/27	19 x 0.36	0.157	3.99	0.385	9.78	60 kV
39X1260	12	3.08	19/25	19 x 0.45	0.178	4.51	0.445	11.30	60 kV

CA PROP 65 RoHS Compliant

High Temperature Hook-Up Wire

600 V, Mica-Glass, PTFE



UL AWM 5107
CSA AWM I A/B

Operating Temperature

- -55°C to 538°C
- -55°C to 450°C (UL, CSA)

Materials

- Stranded nickel-plated copper conductor
- Mica-glass tape insulation
- Tan PTFE-impregnated fiberglass jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
3112010	20	0.51	10/30	10 x 0.25	0.025	0.64	0.101	2.57
3111816	18	0.81	16/30	16 x 0.25	0.025	0.64	0.111	2.82
3111626	16	1.32	26/30	26 x 0.25	0.025	0.64	0.124	3.15
3111441	14	2.08	41/30	41 x 0.25	0.025	0.64	0.138	3.51
3111265	12	3.29	65/30	65 x 0.25	0.025	0.64	0.157	3.99
3111000	10	5.32	105/30	105 x 0.25	0.030	0.76	0.206	5.23
3118133	8	8.63	133/29	133 x 0.28	0.030	0.76	0.260	6.60
3116133	6	13.6	133/27	133 x 0.36	0.030	0.76	0.304	7.72
3114133	4	21.6	133/25	133 x 0.36	0.030	0.76	0.361	9.17
3112133	2	34.4	133/23	133 x 0.57	0.035	0.89	0.444	11.28

CA PROP 65 RoHS Compliant

High Temperature Hook-Up Wire

600 V, PTFE, PTFE



Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
3131816	18	0.81	16/30	16 x 0.25	0.016	0.41	0.109	2.77
3131626	16	1.32	26/30	26 x 0.25	0.016	0.41	0.122	3.10
3131441	14	2.08	41/30	41 x 0.25	0.016	0.41	0.136	3.45
3131265	12	3.29	65/30	65 x 0.25	0.016	0.41	0.155	3.94
3131000	10	5.32	105/30	105 x 0.25	0.016	0.41	0.180	4.57
3138133	8	8.61	133/29	133 x 0.29	0.016	0.41	0.232	5.89
3136133	6	13.6	133/27	133 x 0.36	0.016	0.41	0.315	8.00

UL AWM 5196
CSA AWM I A/B

Operating Temperature

- -55°C to 250°C

Materials

- Stranded nickel-plated copper conductor
- White PTFE tape insulation
- Double fiberglass serve
- Tan PTFE-impregnated fiberglass jacket

Availability

100 ft (30.5 m)
500 ft (152 m)
1,000 ft (305 m)
Bulk, cut to length

CA PROP 65 RoHS Compliant

Photovoltaic Hook-Up Wire

1000/2000 V, XLPE, PVC



UL 4703 PV VW-1 (2000 V)
UL Sunlight Resistant

Operating Temperature

- -40°C to 90°C

Materials

- Stranded tinned copper conductor
- Black cross-linked polyethylene insulation
- Black PVC jacket

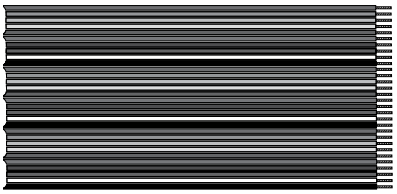
Availability

100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Wire Size		Stranding		Insulation Thickness		Nominal Diameter	
	AWG	mm²	AWG	mm	Inch	mm	Inch	mm
PV1430	14	2.08	41/30	41 x 0.25	0.063/0.032	1.60/0.81	0.267	6.78
PV1230	12	3.29	65/30	65 x 0.25	0.063/0.032	1.60/0.81	0.286	7.26
PV1030	10	5.32	105/30	105 x 0.25	0.063/0.032	1.60/0.81	0.311	7.90
PV0830	8	8.51	168/30	168 x 0.25	0.078/0.032	1.98/0.81	0.390	9.91
PV0630	6	13.5	266/30	266 x 0.25	0.078/0.032	1.98/0.81	0.433	11.00
PV0430	4	21.3	420/30	420 x 0.25	0.078/0.032	1.98/0.81	0.491	12.47
PV0230	2	33.7	665/30	665 x 0.25	0.078/0.032	1.98/0.81	0.558	14.17

Hook-Up Wire

Ribbon Cable
150/600 V, PVC



MIL-DTL-16878/1 (Type B) (600 V)
UL AWM 2713 (150 V) VW-1

Operating Temperature

- -20°C to 105°C (MIL)
- -20°C to 80°C (AWM)

Conductor Color Coding

- Brown, red, orange, yellow, green, blue, violet, slate, white, black . . . repeats

Materials

- Stranded tinned copper conductors
- Color-coded PVC insulation bonded into a flat configuration

Availability

100 ft (30.5 m)

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)
Cable height: 0.039 (0.99 mm)

Part No.	Conductors	Width	
		Inch	mm
3550	10	0.392	9.96
3550/14	14	0.546	13.87
3551	15	0.585	14.68
3551/16	16	0.624	15.85

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)
Cable height: 0.044 (1.12 mm)

Part No.	Conductors	Width	
		Inch	mm
3540/7	10	0.440	11.18
3541/7	15	0.660	16.76
3542/7	20	0.880	22.35

24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.12 mm)
Insulation thickness: 0.010 (0.25 mm)
Cable height: 0.044 (1.12 mm)

Part No.	Conductors	Width	
		Inch	mm
3540	10	0.440	11.18
3541	15	0.660	16.76
3542	20	0.880	22.35
3543	30	1.320	33.53

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
Cable height: 0.050 (1.27 mm)

Part No.	Conductors	Width	
		Inch	mm
3530/7	10	0.500	12.70
3531/7	15	0.750	19.05
3532/7	20	1.000	25.40
3533/7	30	1.500	38.10

22 AWG (0.38 mm²)

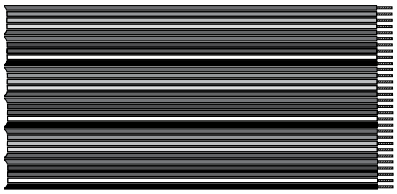
Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)
Cable height: 0.051 (1.29 mm)

Part No.	Conductors	Width	
		Inch	mm
3530	10	0.510	12.95
3531	15	0.765	19.43
3532	20	1.020	25.91
3533	30	1.530	38.86

RoHS Compliant

Hook-Up Wire

Ribbon Cable
300/1000V, PVC



MIL-DTL-16878/2 (Type C) (1000 V)
UL AWM 2555 (300 V)

Operating Temperature

- -20°C to 105°C (MIL)
- -20°C to 80°C (AWM)

Conductor Color Coding

- Brown, red, orange, yellow, green, blue, violet, slate, white, black . . . repeats

Materials

- Stranded tinned copper conductors
- Color-coded PVC insulation bonded into a flat configuration

Availability

100 ft (30.5 m)

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Stranding: 0.016 (0.41 mm)
Cable height: 0.065 (1.65 mm)

Part No.	Conductors	Width	
		Inch	mm
3505	5	0.310	7.87
3510	10	0.620	15.75
3515	15	0.930	23.62
3520	20	1.240	31.50

RoHS Compliant

Hook-Up Wire

Bus Bar Wire



CID AA-59551 Type S
ASTM B33

Materials

- Electrolytic soft-drawn and annealed solid tin-plated copper conductor

Availability

100 ft (30.5 m)
1,000 ft (305 m)

Part No.	Wire Size			Diameter	
	AWG	CMA	mm²	Inch	mm
932	32	64	0.03	0.008	0.20
299/3	30	100	0.05	0.010	0.25
299/2	28	159	0.08	0.013	0.33
299/1	26	253	0.12	0.016	0.41
299	24	404	0.20	0.020	0.51
298	22	640	0.32	0.025	0.64
297	20	1020	0.51	0.032	0.81
296	18	1620	0.82	0.040	1.02
295	16	2580	1.31	0.051	1.30
286	14	4110	2.08	0.064	1.63
289	12	6530	3.31	0.081	2.06
908	8	16510	8.37	0.129	3.28
906	6	26250	13.3	0.162	4.11

RoHS Compliant

Hook-Up Wire Kits



Alpha's Hook-Up wire kits contain an assortment of 100ft (30.5m) spools of Hook-Up wire suitable for military or UL/CSA applications. These kits have been designed for use by technicians, engineers, and designers in the R&D lab or maintenance shop. Each kit contains a stripping tool and five spools of hook-up wire in a unique, rack-mounted, transparent dispensing tube. The tube and rack system keeps hook-up wire neat, clean, and conveniently at hand.

Part No.	Wire Type	Wire Size		Colors	Wire Length (each order)		Reorder No.
		AWG	mm²		Feet	Meters	
HU-KIT-40	UL AWM 1007 UL AWM 1569 CSA TR 64	24	0.23	White Black Red Green Blue	100	30.5	3050
HU-KIT-30	MIL-W-76B Type MW	24	0.23	White Black Red Green Blue	100	30.5	1550
HU-KIT-20	UL AWM 1007 UL AWM 1569 CSA TR 64	22	0.36	White Black Red Green Blue	100	30.5	3051
HU-KIT-10	MIL-W-76B Type MW	22	0.36	White Black Red Green Blue	100	30.5	1551

Operating Temperature

- -40°C to 80°C (HU-KIT-10, 30)
- -40°C to 105°C (HU-KIT-20, 40)

Voltage Rating

- 1000 V (HU-KIT-10, 30)
- 300 V (HU-KIT-20, 40)

Materials

- Stranded tinned copper conductor
- Color-coded PVC insulation

Availability

1 Box

RoHS Compliant

FIT® Heat-shrink Tubing



Medical Equipment

Industrial Automation

Semi-conductor Equipment

Aerospace and Defence

Energy and Solar

Consumer Electronics

FIT® Heat-Shrink Tubing





Whether your concerns are mechanical strain relief, environmental sealing or organizing wires, Alpha Wire's FIT Heat-Shrink Tubing is ideal for solving many challenges in electrical and electronic wiring:

- **Protect** substrates from moisture, UV light, corrosion, oxidation, dust, chemicals, abrasion, environmental conditions, solder joints, and encapsulates
- **Insulate** wire terminations and connections and entire printed circuit boards from electrical and environmental conditions
- **Repair** cable splices, insulation damage and cuts, cable jackets and connections with permanent or temporary quick fixes



- **Reliieve** strain on cables and connectors to prevent harmful flexing or bending
- **Bundle and organize** wire harness, cable, tubing, and hose dressing on OEM equipment, breakouts; bundle in small spaces, conform to odd shapes
- **Seal** connections, backshells, and other gaps from moisture and other contaminants
- **Identify** circuits through color-coding, grouping and labeling

FIT heat-shrink products

Our FIT Heat-Shrink Tubing offers a reliable way to protect and seal terminations or add additional mechanical ruggedness. FIT preferred heat-shrink products are made from premium compounds under the tightest manufacturing controls. This means FIT tubing consistently provides excellent physical characteristics, such as low longitudinal shrinkage and wide temperature ranges, while providing an elegant appearance when used alone or on OEM equipment.

The FIT line consists of various tubing types, each designed with unique attributes that offer tubing solutions for the broadest possible range of applications and environments. FIT products are always in stock and come in an unprecedented variety of package sizes.

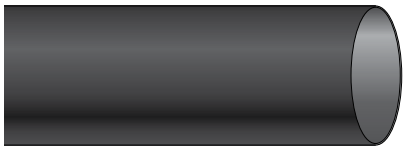
Beyond the widely used polyolefin tubing that is suited to the broadest range of general-purpose needs, we offer a number of other materials for higher or lower shrink temperatures, wider operating temperatures, and special needs like outstanding chemical resistance or increased flexibility.

FIT® Heat-Shrink Tubing

Material	Features	Shrink Temperature	Shrink Ratio (approx.)	FIT Family
Single-Wall Cross-linked Polyolefin for General-Purpose Use				
Thin-wall irradiated polyolefin	LSZH: reduced smoke generation and gas emission Low outgassing	-55°C to 105°C	2:1	FIT-221L
Cross-linked polyolefin	General-purpose heat-shrink tubing Range of shrink ratios	90°C	2:1	FIT-221
		90°C	4:1	FIT-421
Flame-retardant cross-linked polyolefin	Low shrink temp Passes UL VW-1 flame test	90°C	2:1	FIT-221V
		90°C	3:1	FIT-321V
Cross-linked polyolefin	Approved for 600-V ground lead identification Green with yellow stripe Passes UL VW-1 flame test	90°C	2:1	FIT-260
Dual-Wall Polyolefin for Additional Sealing				
Surface cross-linked, dual extruded	Meltable inner wall to encapsulate without adhesive	140°C	2.5:1	FIT-300
		110°C	3:1	FIT-321
		121°C	5.6:1	FIT-621
Bonding, thermoplastic adhesive lined	Bonds to most materials High voltage: to 2 kV at 90°C continuous use	120°C	3:1	FIT-700
Bonding, adhesive lined	Permanent water and corrosion protection	110°C	2:1	FIT-750
Special-Application Tubing				
Irradiated PVC	Low shrink temperature Passes UL VW-1 flame test 30% stronger than standard polyolefin	100°C	2:1	FIT-105
Cross-linked PVDF	High shrink temperature Fast recovery time Excellent chemical, heat, and flame resistance Passes UL VW-1 flame test 3x the tensile strength of standard polyolefin	170°C	2:1	FIT-350
FEP	High shrink temperature Excellent chemical resistance Excellent dielectric properties Thinnest wall thickness available	200°C	1.2:1	FIT-400
PTFE	High shrink temperature Excellent chemical resistance Excellent dielectric properties Very thin wall thickness	250°C	1.5:1	FIT-500
Chlorinated polyolefin	Highly flexible Oil and abrasion resistant Passes UL VW-1 flame test	130°C	2:1	FIT-600
Flexible fluoroelastomer	High shrink temperature Excellent chemical resistance Flexible	175°C	2:1	FIT-650
Polyethylene/ polyester	Superior abrasion resistance Excellent flexibility Resists harsh environments	80°C	2:1	FIT-FABRIC
Cross-linked silicone rubber	High flexibility available Pliable Scrape abrasion resistant Passes UL VW-1 flame test	200°C	1.7:1	FIT-FLEX
Cross-linked PVDF	Transparent after shrink Fast recovery time Excellent chemical, heat, and flame resistance Passes UL VW-1 flame test 2x the tensile strength of standard polyolefin	150°C	2:1	FIT-CLEAR

FIT® Heat-Shrink Tubing

FIT®-105 Heat-Shrink Tubing
2:1 Shrink Ratio, Irradiated PVC



AMS DTL-23053/5 Class 1 (except clear)
AMS DTL-23053/5 Class 2 (clear only)
UL 224 (except clear)
CSA 198 (except clear)

- Low shrink temperature
- Fast recovery time
- 30% stronger than standard polyolefin
- Low water absorption
- UV resistant

Operating Temperature
- -20°C to 105°C

Shrink Temperature
- 100°C min.
- 105°C full recovery

Material
- Irradiated PVC

Color
- Black

Physical Properties
- Tensile strength: 3,000 psi (20.68 N/mm^2)
- Elongation: 300% min
- Longitudinal change: +1%/-25%
- Specific gravity: 1.32
- Flame retardant
- Shelf life: 1 year at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 1.0% max.
- Lead free

Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 1,083 V/mil (426.3 kV/cm)
- Volume resistivity: 10^{12} ohm-cm

Availability
See table

Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	ft	m
FIT-105-3/64	0.046	1.17	0.023	0.58	0.020	0.51	25, 100, 500, 1000	7.6, 30.5, 152, 305
FIT-105-1/16	0.062	1.57	0.031	0.79	0.020	0.51	25, 100, 500, 1000	7.6, 30.5, 152, 305
FIT-105-3/32	0.093	2.36	0.046	1.17	0.020	0.51	25, 100, 1000	7.6, 30.5, 305
FIT-105-1/8	0.125	3.18	0.062	1.57	0.025	0.64	25, 100, 1000	7.6, 30.5, 305
FIT-105-3/16	0.187	4.75	0.093	2.36	0.025	0.64	25, 100, 1000	7.6, 30.5, 305
FIT-105-1/4	0.250	6.35	0.125	3.18	0.025	0.64	25, 100, 1000	7.6, 30.5, 305
FIT-105-3/8	0.375	9.53	0.187	4.75	0.030	0.76	25, 100, 500	7.6, 30.5, 152
FIT-105-1/2	0.500	12.70	0.250	6.35	0.030	0.76	25, 100, 250	7.6, 30.5, 76.2
FIT-105-3/4	0.750	19.05	0.375	9.53	0.035	0.89	25, 100, 250	7.6, 30.5, 76.2
FIT-105-1IN	1.000	25.40	0.500	12.70	0.040	1.02	25, 100, 250	7.6, 30.5, 76.2
FIT-105-1-1/2	1.500	38.10	0.750	19.05	0.045	1.14	25, 100	7.6, 30.5

Packaged Assortments

Assorted sizes of 6” (15 cm) lengths

FIT-105-MS-1

Contents	Tubing Size		Quantity
	Inch	mm	
FIT-105-3/64	0.046	1.17	10
FIT-105-1/16	0.062	1.57	10
FIT-105-3/32	0.093	2.36	10
FIT-105-1/8	0.125	3.18	10
FIT-105-3/16	0.187	4.75	10
FIT-105-1/4	0.250	6.35	10

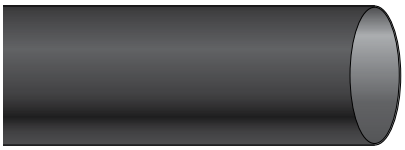
FIT-105-MS-2

Contents	Tubing Size		Quantity
	Inch	mm	
FIT-105-3/8	0.375	9.53	10
FIT-105-1/2	0.500	12.70	10
FIT-105-3/4	0.750	19.05	10
FIT-105-1 IN	1.000	25.40	10

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-221 Heat-Shrink Tubing
2:1 Shrink Ratio, XLPO



AMS DTL-23053/5 Class 1 (except clear)
AMS DTL-23053/5 Class 2 (clear only)
UL 224 (except clear)
CSA 198 (except clear)

- Excellent general-purpose tubing
- Low shrink temperature
- Fast recovery time
- Low water absorption
- UV resistant (black only)

Operating Temperature

- -55°C to 135°C
- -55°C to 125°C (UL, CSA)

Shrink Temperature

- 90°C min.
- 121°C full recovery

Material

- Cross-linked polyolefin

Color

- Black, white, red, yellow, blue, green, clear*

*Clear tubing may exhibit some color tint that is the result of the product's chemistry; the tint is variable and can be any color

Physical Properties

- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35 (colors)/ 1.00 (clear)
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1,000 psi (6.89 N/mm^2)
- Lead free

Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10^{14} ohm-cm

Availability

See table, next page

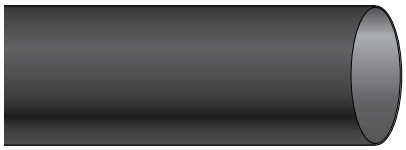
Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
FIT-221-3/64	0.046	1.17	0.023	0.58	0.016	0.41
FIT-221-1/16	0.063	1.60	0.031	0.79	0.017	0.43
FIT-221-3/32	0.093	2.36	0.046	1.17	0.020	0.51
FIT-221-1/8	0.125	3.18	0.062	1.57	0.020	0.51
FIT-221-3/16	0.187	4.75	0.093	2.36	0.020	0.51
FIT-221-1/4	0.250	6.35	0.125	3.18	0.025	0.64
FIT-221-3/8	0.375	9.53	0.187	4.75	0.025	0.64
FIT-221-1/2	0.500	12.70	0.250	6.35	0.025	0.64
FIT-221-3/4	0.750	19.05	0.375	9.53	0.030	0.76
FIT-221-1IN	1.000	25.40	0.500	12.70	0.035	0.89
FIT-221-1-1/2	1.500	38.10	0.750	19.05	0.040	1.02
FIT-221-2IN	2.000	50.80	1.000	25.40	0.045	1.14
FIT-221-3IN	3.000	76.20	1.500	38.10	0.050	1.27
FIT-221-4IN	4.000	101.60	2.000	50.80	0.055	1.40

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-221 Heat-Shrink Tubing
2:1 Shrink Ratio, XLPO



AMS DTL-23053/5 Class 1 (except clear)
AMS DTL-23053/5 Class 2 (clear only)
UL 224 (except clear)
CSA 198 (except clear)

Availability

Part No.	Spools		Qty, Cut Pieces at Length			
	Ft	m	4 ft (1.2 m)	6" (152 mm)	1" (25.4 mm)	0.5" (12.7 mm)
FIT-221-3/64	1000*	305*	25	40	1000	1000
FIT-221-1/16	70, 100*, 1000	21.3, 30.5*, 305	25	36	1000	1000
FIT-221-3/32	65, 100*, 500	19.8, 30.5*, 152	25	32	1000	1000
FIT-221-1/8	60, 100*, 500	18.2, 30.5*, 152	25	28	1000	1000
FIT-221-3/16	50, 100*, 500	15.2, 30.5*, 152	25	24	1000	1000
FIT-221-1/4	40, 100*, 250	12.2, 30.5, 76.2*	25	20	1000	1000
FIT-221-3/8	35, 50*, 200	10.6, 15.2*, 60.9	25	16	1000	1000
FIT-221-1/2	32, 50*, 150	9.7, 15.2*, 45.7	5	14	—	—
FIT-221-3/4	24, 50*, 250	7.3, 15.2*, 76.2	5	12	—	—
FIT-221-1IN	16, 50*, 250	4.8, 15.2, 76.2	5	8	—	—
FIT-221-1-1/2	125*	38.1*	5	5	—	—
FIT-221-2IN	125*	38.1*	5	3	—	—
FIT-221-3IN	100*	30.5*	2	2	—	—
FIT-221-4IN	50*	15.2*	2	—	—	—

*Black and clear tubing only.
Spools may contain multiple lengths.

Packaged Assortments

Assorted sizes of 6" (152 mm) lengths

Each length is size identified.

FIT-221-MS-1 Assorted colors: Black, blue, red, green, yellow

Contents	Tubing Size		Quantity
	Inch	mm	
FIT-221-3/64	0.046	1.17	6
FIT-221-1/16	0.063	1.60	6
FIT-221-3/32	0.093	2.36	6
FIT-221-1/8	0.125	3.18	6
FIT-221-3/16	0.187	4.75	6

FIT-221-MS-2 Assorted colors: Black, blue, red, yellow

Contents	Tubing Size		Quantity
	Inch	mm	
FIT-221-1/4	0.250	6.35	4
FIT-221-3/8	0.375	9.53	4
FIT-221-1/2	0.500	12.70	4
FIT-221-3/4	0.750	19.05	4

FIT-KIT-221BK
Colors: Black

Contents	Tubing Size		Quantity
	Inch	mm	
FIT-221-3/16	0.187	4.75	25
FIT-221-1/4	0.250	6.35	20
FIT-221-3/8	0.375	9.53	15
FIT-221-1/2	0.500	12.70	10
FIT-221-3/4	0.750	19.05	6
FIT-221-1IN	1.000	25.40	4

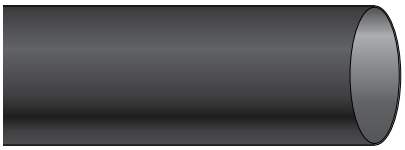
FIT-KIT-221C Assorted colors: Black, blue, red, white, green, yellow, clear

Contents	Tubing Size		Quantity	
	Inch	mm	Each Color	Total
FIT-221-3/32	0.093	2.36	4	28
FIT-221-1/8	0.125	3.18	3	21
FIT-221-3/16	0.187	4.75	3	21
FIT-221-1/4	0.250	6.35	3	21
FIT-221-3/8	0.375	9.53	2	14
FIT-221-1/2	0.500	12.70	2	14

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-221B Heat-Shrink Tubing
2:1 Shrink Ratio, XLPO, Bulk Packaging



AMS DTL-23053/5 Class 1 (except clear)
AMS DTL-23053/5 Class 2 (clear only)
UL 224 (except clear)
CSA 198 (except clear)

- Excellent general-purpose tubing
- Low shrink temperature
- Fastest recovery time
- Low water absorption
- UV resistant (black only)

Operating Temperature
- -55°C to 135°C
- -55°C to 125°C (UL, CSA)

Shrink Temperature
- 90°C min.
- 121°C full recovery

Material
- Cross-linked polyolefin

Color
- Black, blue, clear*

*Clear tubing may exhibit some color tint that is the result of the product's chemistry; the tint is variable and can be any color

Physical Properties
- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35 (colors)/ 1.00 (clear)
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1,000 psi (6.89 N/mm^2)
- Lead free

Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10^{14} ohm-cm

Availability
See table

Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
FIT-221B-3/64	0.046	1.17	0.023	0.58	0.016	0.41
FIT-221B-1/16	0.063	1.60	0.031	0.79	0.017	0.43
FIT-221B-3/32	0.093	2.36	0.046	1.17	0.020	0.51
FIT-221B-1/8	0.125	3.18	0.062	1.57	0.020	0.51
FIT-221B-3/16	0.187	4.75	0.093	2.36	0.020	0.51
FIT-221B-1/4	0.250	6.35	0.125	3.18	0.025	0.64
FIT-221B-3/8	0.375	9.53	0.187	4.75	0.025	0.64
FIT-221B-1/2	0.500	12.70	0.250	6.35	0.025	0.64
FIT-221B-3/4	0.750	19.05	0.375	9.53	0.030	0.76
FIT-221B-1IN	1.000	25.40	0.500	12.70	0.035	0.89

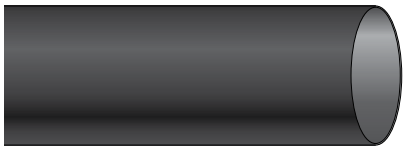
Availability

Part No.	Spools (Length x No. of Spools)		Qty, Cut Pieces at Length
	Ft	m	4 ft (1.2 m)
FIT-221B-3/64	1,000 x 3	305 x 3	250
FIT-221B-1/16	1,000 x 3	305 x 3	250
FIT-221B-3/32	500 x 3	152 x 3	250
FIT-221B-1/8	500 x 3	152 x 3	250
FIT-221B-3/16	500 x 2	152 x 2	250
FIT-221B-1/4	250 x 2	76.2 x 2	250
FIT-221B-3/8	200 x 2	60.9 x 2	250
FIT-221B-1/2	150 x 2	45. 7 x 2	200
FIT-221B-3/4	250 x 1 250 x 2	76.2 x 1 76.2 x 2	125
FIT-221B-1IN	250 x 1	76.2 x 1	75

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-221V Heat-Shrink Tubing
2:1 Shrink Ratio, XLPO, Low Shrink Temperature



AMS DTL-23053/5 Class 1 and 3
AS23053
UL 224 VW-1
CSA 198

- Excellent general-purpose tubing
- Low shrink temperature
- Fastest recovery time
- Low water absorption
- UV resistant (black only)

Operating Temperature
- -55°C to 135°C
- -55°C to 125°C (UL, CSA)

Shrink Temperature
- 90°C min.
- 121°C full recovery

Material
- Cross-linked polyolefin

Color
- Black, white, red, yellow, green, blue

Physical Properties
- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1,000 psi (6.89 N/mm^2)
- Lead free

Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10^{14} ohm-cm

Availability
See table

Spools may contain multiple

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
FIT-221V-3/64	0.046	1.17	0.023	0.58	0.016	0.41
FIT-221V-1/16	0.063	1.60	0.031	0.79	0.017	0.43
FIT-221V-3/32	0.093	2.36	0.046	1.17	0.020	0.51
FIT-221V-1/8	0.125	3.18	0.062	1.57	0.020	0.51
FIT-221V-3/16	0.187	4.75	0.093	2.36	0.020	0.51
FIT-221V-1/4	0.250	6.35	0.125	3.18	0.025	0.64
FIT-221V-3/8	0.375	9.53	0.187	4.75	0.025	0.64
FIT-221V-1/2	0.500	12.70	0.250	6.35	0.025	0.64
FIT-221V-3/4	0.750	19.05	0.375	9.53	0.030	0.76
FIT-221V-1IN	1.000	25.40	0.500	12.70	0.035	0.89
FIT-221V-1-1/2	1.500	38.10	0.750	19.05	0.040	1.02
FIT-221V-2IN	2.000	50.80	1.000	25.40	0.045	1.14

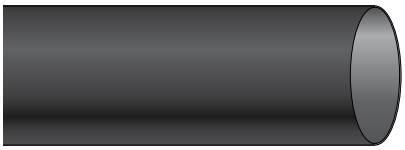
Availability

Part No.	Spools (Length x No. of Spools)		Qty, Cut Pieces at Length
	Ft	m	4 ft (1.2 m)
FIT-221V-3/64	1,000 x 3	305 x 3	250
FIT-221V-1/16	1,000 x 3	305 x 3	250
FIT-221V-3/32	500 x 3	152 x 3	250
FIT-221V-1/8	500 x 3	152 x 3	250
FIT-221V-3/16	500 x 2	152 x 2	250
FIT-221V-1/4	250 x 2	76.2 x 2	250
FIT-221V-3/8	200 x 2	60.9 x 2	250
FIT-221V-1/2	150 x 2	45. 7 x 2	200
FIT-221V-3/4	250 x 1 250 x 2	76.2 x 1 76.2 x 2	125
FIT-221V-1IN	250 x 1	76.2 x 1	75

RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-221L Heat-Shrink Tubing
2:1 Shrink Ratio, LSZH PO



AMS DTL-23053/5 Class 1 and 3
AS23053
UL 224 VW-1
CSA 198

- Excellent general-purpose tubing
- LSZH
- Fastest recovery time
- Low water absorption
- UV resistant

Operating Temperature
- -55°C to 125°C (UL, CSA)

Shrink Temperature
- 100°C min.
- 110°C full recovery

Material
- LSZH polyolefin

Color
- Black

Physical Properties
- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 200% min
- Longitudinal change: ±5%
- Shelf life: 25 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.7% max.
- Fluid resistance: 1,000 psi (6.89 N/mm^2)
- Lead free
- Halogen free

Electrical Properties
- 600 V (UL, CSA)

Availability
See table

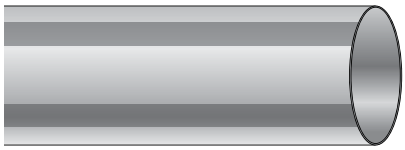
Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	ft	m
FIT-221L-3/64	0.046	1.17	0.023	0.58	0.013	0.33	1,000	305
FIT-221L-1/16	0.063	1.60	0.031	0.79	0.014	0.36	1,000	305
FIT-221L-3/32	0.094	2.39	0.046	1.17	0.017	0.43	500	152
FIT-221L-1/8	0.125	3.18	0.062	1.57	0.017	0.43	500	152
FIT-221L-3/16	0.187	4.75	0.093	2.36	0.017	0.43	200	61
FIT-221L-1/4	0.250	6.35	0.125	3.18	0.022	0.56	200	61
FIT-221L-3/8	0.375	9.53	0.187	4.75	0.022	0.56	200	61
FIT-221L-1/2	0.500	12.70	0.250	6.35	0.022	0.56	200	61
FIT-221L-3/4	0.750	19.05	0.375	9.53	0.027	0.69	200	61
FIT-221L-1IN	1.000	25.40	0.500	12.70	0.035	0.89	200	61

RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-260 Heat-Shrink Tubing
2:1 Shrink Ratio, XLPO, Ground Lead Identification



UL 224 VW-1
CSA 198

- Excellent general-purpose tubing
- Low water absorption

Operating Temperature
- -55°C to 135°C
- -55°C to 125°C (UL, CSA)

Shrink Temperature
- 90°C min.
- 120°C full recovery

Material
- Cross-linked polyolefin

Color
- Green/yellow

Physical Properties
- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35
- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1,000 psi (6.89 N/mm^2)
- Lead free

Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10^{14} ohm-cm

Availability
See table

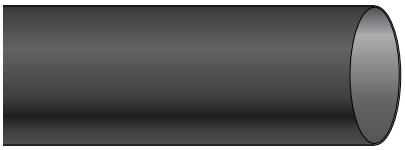
Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	ft	m
FIT-260-1/8	0.125	3.18	0.062	1.57	0.020	0.51	500	152
FIT-260-1/4	0.250	6.35	0.125	3.18	0.025	0.64	250	76.2
FIT-260-3/8	0.375	9.53	0.187	4.75	0.025	0.64	250	76.2
FIT-260-1/2	0.500	12.70	0.250	6.35	0.025	0.64	250	76.2
FIT-260-3/4	0.750	19.05	0.375	9.53	0.030	0.76	250	76.2
FIT-260-1	1.000	25.40	0.500	12.70	0.035	0.89	100	30.5

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-300 Heat-Shrink Tubing
2.5:1 Shrink Ratio, Dual-Wall Semirigid XLPO



AMS-DTL-23053/4 Class 1
UL 224 (Except clear)

- Meltable inner wall for encapsulation without adhesives
- Thicker wall for added protection
- High shrink ratios
- Excellent dielectric properties

Operating Temperature

- -55°C to 135°C
- -55°C to 125°C (UL)

Shrink Temperature

- 140°C min.

Material

- Dual-wall semirigid cross-linked polyolefin

Color

- Black, white, red, yellow, blue, slate, brown

Physical Properties

- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 200% min
- Longitudinal change: +1%/-10%
- Specific gravity: 0.99
- Shelf life: 3 years at 18°C to 35°C

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1,000 psi (6.89 N/mm^2)
- Lead free
- Halogen free

Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10^{16} ohm-cm

Availability

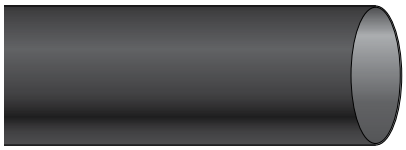
See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability Qty, Cut Pieces at Length	
	Inch	mm	Inch	mm	Inch	mm	4 ft (1.2 m)	6" (152 mm)
FIT-300-1/8	0.125	3.18	0.023	0.58	0.038	0.97	25	14
FIT-300-3/16	0.187	4.75	0.060	1.52	0.043	1.09	25	12
FIT-300-1/4	0.250	6.35	0.080	2.03	0.047	1.19	25	10
FIT-300-3/10	0.300	7.62	0.050	1.27	0.100	2.54	25	4
FIT-300-3/8	0.375	9.53	0.135	3.43	0.050	1.27	25	8
FIT-300-1/2	0.500	12.70	0.195	4.95	0.055	1.40	5	6
FIT-300-3/4	0.750	19.05	0.313	7.95	0.065	1.65	5	4
ST-3001-IN	1.000	25.40	0.400	10.16	0.075	1.91	5	--

RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-321 Heat-Shrink Tubing
3:1 Shrink Ratio, Dual-Wall XLPO, Adhesive Lined



AMS-DTL-23053/4 Class 3
UL 224
AS23053
CSA 198

- Thicker wall for increased durability
- Water-resistant inner permanent-bonding adhesive

Operating Temperature
- -55°C to 125°C

Shrink Temperature
- 110°C min.
- 110°C full recovery

Material
- Dual-wall flexible polyolefin with thick-wall adhesive

Color
- Black

Physical Properties
- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 250% min
- Longitudinal change: +1%/-15%
- Flame tested
- Shelf life: 3 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 1.0% max
- Fluid resistance: 900 psi (6.20 N/mm^2)
- UV resistant
- Lead free

Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 300 V/mil (118 kV/cm)
- Volume resistivity: 10^{12} ohm-cm

Availability
See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Recovered Melt Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm
FIT-321-1/8	0.125	3.18	0.024	0.61	0.037	0.94	0.020	0.51
FIT-321-1/4	0.252	6.40	0.073	1.85	0.047	1.19	0.020	0.51
ST-303-3/8	0.374	9.50	0.118	3.00	0.051	1.30	0.025	0.64
FIT-321-1/2	0.500	12.70	0.157	3.99	0.071	1.80	0.030	0.76
ST-303-3/4	0.748	19.00	0.236	5.99	0.071	1.80	0.035	0.89
FIT-321-1	0.945	24.00	0.315	8.00	0.098	2.49	0.040	1.02
FIT-321-1-1/2	1.575	40.01	0.512	13.00	0.098	2.49	0.040	1.02

Availability

Part No.	Qty, Cut Pieces at Length	
	4 ft (1.2 m)	6” (152 mm)
FIT-321-1/8	25	28
FIT-321-1/4	25	20
FIT-321-1/2	5	14
FIT-321-1	5	8
FIT-321-1-1/2	5	5

Packaged Assortments
Assorted sizes of 6” (15 cm) lengths

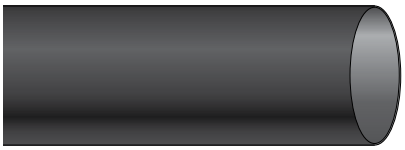
FIT-321-MS-1 Colors: Black

Part No.	Size		Quantity
	Inch	mm	
FIT-321-1/8	0.125	3.18	5
FIT-321-1/4	0.252	6.40	5
FIT-321-1/2	0.500	12.70	5
FIT-321-1	0.945	24.00	5

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-321V Heat-Shrink Tubing
3:1 Shrink Ratio, Flex XLPO, Thin Wall



AMS-DTL-23053/5 Class 1 and 3(except dimensions)
AS23053
UL 224 VW-1
CSA 198

- Low shrink temperature
- Fast recovery time
- Reduced wall thickness

Operating Temperature
- -55°C to 135°C
- -55°C to 125°C (UL, CSA)

Shrink Temperature
- 90°C min.
- 135°C full recovery

Material
- Flexible cross-linked thin-wall polyolefin

Color
- Black, white

Physical Properties
- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 200% min
- Longitudinal change: +5%/-15%
- Specific gravity: 1.35
- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1,000 psi (6.89 N/mm^2)

Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10^{14} ohm-cm

Availability
See table

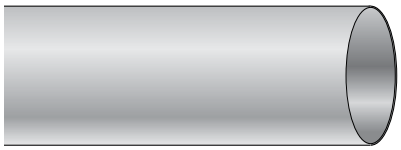
Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
FIT-321V-3/32	0.060	1.52	0.020	0.51	0.020	0.51	500	152
FIT-321V-1/8	0.120	3.05	0.040	1.02	0.024	0.61	500	152
FIT-321V-1/4	0.240	6.10	0.080	2.03	0.028	0.71	250	76.2
FIT-321V-3/8	0.360	9.14	0.120	3.05	0.031	0.79	200	60.9
FIT-321V-1/2	0.472	11.99	0.160	4.06	0.033	0.84	150	45.7
FIT-321V-3/4	0.720	18.29	0.240	6.10	0.039	0.99	250	76.2
FIT-321V-1IN	0.945	24.00	0.315	8.00	0.048	1.22	250	76.2

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-350 Heat-Shrink Tubing
2:1 Shrink Ratio, PVDF



AMS-DTL-23053/8
UL 224 VW-1

- Chemical resistant
- Heat resistant
- 3x the tensile strength of standard XLPO

Operating Temperature

- -55°C to 135°C
- -55°C to 150°C (UL)

Shrink Temperature

- 170°C min.
- 175°C full recovery

Material

- Cross-linked polyvinylidene fluoride

Color

- Clear

Physical Properties

- Tensile strength: 5,000 psi (34.47 N/mm^2)
- Elongation: 150% min
- Longitudinal change: ±10%
- Specific gravity: 1.80
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 5,000 psi (34.47 N/mm^2)
- Lead free

Electrical Properties

- 600 V (UL)
- Dielectric strength: 800 V/mil (315 kV/cm)
- Volume resistivity: 10^{13} ohm-cm

Availability

See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	4 ft (1.2 m)	6" (152 mm)
FIT-350-3/64	0.046	1.17	0.023	0.58	0.010	0.25	25	32
FIT-350-1/16	0.063	1.60	0.031	0.79	0.010	0.25	25	28
FIT-350-3/32	0.093	2.36	0.046	1.17	0.010	0.25	25	24
FIT-350-1/8	0.125	3.18	0.062	1.57	0.010	0.25	25	20
FIT-350-3/16	0.187	4.75	0.093	2.36	0.010	0.25	25	16
FIT-350-1/4	0.250	6.35	0.125	3.18	0.012	0.30	25	12
FIT-350-3/8	0.375	9.53	0.187	4.75	0.012	0.30	25	8
FIT-350-1/2	0.500	12.70	0.250	6.35	0.012	0.30	5	4
FIT-350-3/4	0.750	19.05	0.375	9.53	0.017	0.43	5	2
FIT-350-1IN	1.000	25.40	0.500	12.70	0.019	0.48	5	1

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-400 Heat-Shrink Tubing
1.2:1 Shrink Ratio, FEP



AMS-DTL-23053/11 Class 1

- Chemical resistant
- Wide temperature range
- Excellent dielectric properties
- Thinnest wall thickness available
- Lower recovery temperature than PTFE

Operating Temperature

- -75°C to 200°C

Shrink Temperature

- 175°C full recovery

Material

- FEP

Color

- Natural

Physical Properties

- Tensile strength: 2,000 psi (13.79 N/mm^2)
- Elongation: 200% min
- Longitudinal change: ±15%
- Specific gravity: 2.17
- Shelf life: 4 years at 18°C to 35°C

Chemical Properties

- Corrosive effect: none
- Fluid resistance: pass
- Fungus resistance: no growth
- Water absorption: 0.01% max
- Lead free

Electrical Properties

- Dielectric strength: 2,000 V/mil (787 kV/cm)
- Volume resistivity: 10^{17} ohm-cm

Availability

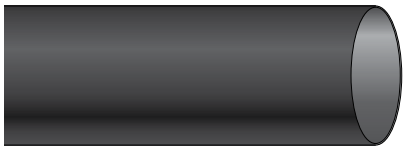
See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability Qty, Cut Pieces at Length	
	Inch	mm	Inch	mm	Inch	mm	4 ft (1.2 m)	2 ft (0.6 m)
FIT-400-24	0.031	0.79	0.027	0.69	0.008	0.20	25	–
FIT-400-22	0.036	0.91	0.032	0.81	0.008	0.20	25	–
FIT-400-20	0.045	1.14	0.039	0.99	0.008	0.20	25	–
FIT-400-18	0.060	1.52	0.049	1.24	0.008	0.20	25	–
FIT-400-16	0.075	1.91	0.061	1.55	0.009	0.23	25	–
FIT-400-14	0.092	2.34	0.072	1.83	0.009	0.23	25	–
FIT-400-12	0.115	2.92	0.089	2.26	0.009	0.23	25	–
FIT-400-10	0.141	3.58	0.114	2.90	0.010	0.25	25	–
FIT-400-9	0.158	4.01	0.124	3.15	0.010	0.25	25	–
FIT-400-8	0.180	4.57	0.143	3.63	0.010	0.25	25	–
FIT-400-7	0.197	5.00	0.158	4.01	0.011	0.28	25	–
FIT-400-6	0.225	5.72	0.180	4.57	0.011	0.28	25	–
FIT-400-5	0.248	6.30	0.198	5.03	0.011	0.28	–	50
FIT-400-4	0.290	7.37	0.226	5.74	0.011	0.28	–	50
FIT-400-3	0.310	7.87	0.249	6.32	0.011	0.28	–	50
FIT-400-2	0.365	9.27	0.280	7.11	0.012	0.30	–	50
FIT-400-1	0.400	10.16	0.311	7.90	0.012	0.30	–	50
FIT-400-0	0.440	11.18	0.349	8.86	0.012	0.30	–	50

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-421 Heat-Shrink Tubing
4:1 Shrink Ratio, XLPO



AMS-DTL-23053/5 Class 1
UL 224 VW-1

- High-shrink ratio
- Large supplied diameters
- Conforms to irregular shapes
- Low water absorption
- UV resistant

Operating Temperature

- -55°C to 135°C
- -55°C to 125°C (UL)

Shrink Temperature

- 90°C min.
- 121°C full recovery

Material

- Cross-linked polyolefin

Color

- Black

Physical Properties

- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 200% min
- Longitudinal change: +5%/-15%
- Specific gravity: 1.35
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1,000 psi (6.89 N/mm^2)
- UV resistant
- Lead free

Electrical Properties

- 600 V (UL)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10^{14} ohm-cm

Availability

See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability Qty, Cut Pieces at Length	
	Inch	mm	Inch	mm	Inch	mm	4 ft (1.2 m)	2 ft (0.6 m)
FIT-421-1IN	1.000	25.40	0.260	6.60	0.045	1.14	5	—
FIT-421-1-1/2	1.500	38.10	0.375	9.53	0.045	1.14	5	—
FIT-421-2IN	2.000	50.80	0.550	13.97	0.045	1.14	5	—
FIT-421-3IN	3.000	76.20	0.810	20.57	0.045	1.14	2	—
FIT-421-4IN	4.000	101.60	1.050	26.67	0.045	1.14	2	

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-500 Heat-Shrink Tubing
1.5:1 Shrink Ratio, PTFE



AMS-DTL-23053/12 Class 3

- Excellent chemical resistance
- Widest temperature range
- High tensile strength
- Excellent dielectric properties
- Extremely thin wall thickness
- Low friction coefficient

Operating Temperature

- -75°C to +260°C

Shrink Temperature

- 327°C full recovery

Material

- PTFE

Color

- Natural

Physical Properties

- Tensile strength: 2,500 psi (17.21 N/mm^2)
- Elongation: 200% min
- Longitudinal change: ±20%
- Specific gravity: 2.20
- Shelf life: 4 years at 18°C to 35°C

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.01% max
- Fluid resistance: pass
- Lead free

Electrical Properties

- Dielectric strength: 800 V/mil (315 kV/cm)
- Volume resistivity: 10^{18} ohm-cm

Availability

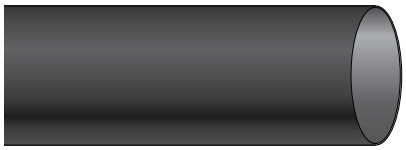
See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability, Qty, Cut Pieces at Length
	Inch	mm	Inch	mm	Inch	mm	2 ft (0.6 m)
FIT-500-30	0.034	0.86	0.015	0.38	0.009	0.23	50
FIT-500-28	0.038	0.97	0.018	0.46	0.009	0.23	50
FIT-500-26	0.046	1.17	0.022	0.56	0.010	0.25	50
FIT-500-24	0.050	1.27	0.027	0.69	0.010	0.25	50
FIT-500-22	0.055	1.40	0.032	0.81	0.012	0.30	50
FIT-500-20	0.060	1.52	0.039	0.99	0.012	0.30	50
FIT-500-18	0.076	1.93	0.049	1.24	0.012	0.30	50
FIT-500-16	0.093	2.36	0.061	1.55	0.012	0.30	50
FIT-500-14	0.120	3.05	0.072	1.83	0.012	0.30	50
FIT-500-12	0.150	3.81	0.089	2.26	0.012	0.30	25
FIT-500-10	0.191	4.85	0.112	2.84	0.012	0.30	25
FIT-500-8	0.240	6.10	0.141	3.58	0.015	0.38	25
FIT-500-6	0.302	7.67	0.178	4.52	0.015	0.38	10
FIT-500-4	0.370	9.40	0.224	5.69	0.015	0.38	10
FIT-500-2	0.430	10.92	0.278	7.06	0.015	0.38	10
FIT-500-0	0.470	11.94	0.347	8.81	0.015	0.38	10

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-600 Heat-Shrink Tubing
2:1 Shrink Ratio, Chlorinated PO



AMS-DTL-23053/1 Class 1 and 2

- More flexible than standard XLPO
- 2x the tensile strength of silicone rubber
- Large tubing diameters
- Oil resistant
- Abrasion resistant

Operating Temperature

- -75°C to 121°C

Shrink Temperature

- 130°C min.
- 130°C full recovery

Material

- Chlorinated polyolefin

Color

- Black

Physical Properties

- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 250% min
- Longitudinal change: +1%/-10%
- Specific gravity: 1.30
- Flame retardant
- Shelf life: 1 year at 18°C to 35°C

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 1.0% max
- Fluid resistance: 1,000 psi (6.89 N/mm^2)
- UV resistant
- Lead free

Electrical Properties

- Dielectric strength: 300 V/mil (118 kV/cm)
- Volume resistivity: 10^{11} ohm-cm

Availability

See table

Spools may contain multiple lengths

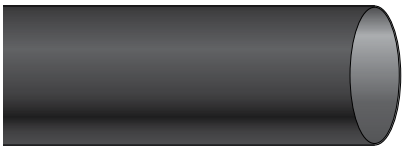
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Ft.	Meter
FIT-600-1/4	0.250	6.35	0.143	3.63	0.035	0.89	25, 150	7.6, 46
FIT-600-3/8	0.375	9.53	0.211	5.36	0.040	1.02	25, 150	7.6, 46
FIT-600-1/2	0.500	12.70	0.286	7.26	0.048	1.22	25, 150	7.6, 46
FIT-600-5/8	0.625	15.88	0.357	9.07	0.052	1.32	25, 150	7.6, 46
FIT-600-3/4	0.750	19.05	0.428	10.87	0.057	1.45	25, 100	7.6, 30.5
FIT-600-7/8	0.875	22.23	0.500	12.70	0.065	1.65	25, 100	7.6, 30.5
FIT-600-1IN	1.000	25.40	0.570	14.48	0.070	1.78	25, 100	7.6, 30.5
FIT-600-1-1/4	1.250	31.75	0.714	18.14	0.087	2.21	25, 100	7.6, 30.5
FIT-600-1-1/2	1.500	38.10	0.857	21.77	0.095	2.41	25, 100	7.6, 30.5
FIT-600-1-3/4	1.750	44.45	1.000	25.40	0.107	2.72	25, 75	7.6, 22.8
FIT-600-2IN	2.000	50.80	1.140	28.96	0.110	2.79	25, 75	7.6, 22.8

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-621 Heat-Shrink Tubing

5.6:1 Shrink Ratio, Dual-Wall Flexible PO, Adhesive-Lined Inner Thick Wall



- High shrink ratios
- Heavy-duty adhesive lining
- Low water absorption
- Oil resistant
- Chemical resistant
- Abrasion resistant

Operating Temperature

- -55°C to 90°C

Shrink Temperature

- 121°C full recovery

Material

- Polyolefin

Color

- Black

Physical Properties

- Tensile strength: 1,200 psi (8.27 N/mm^2)
- Elongation: 200% min
- Longitudinal change: -10%
- Specific gravity: 1.40
- Shelf life: 5 years at 18°C to 35°C

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 750 psi (5.17 N/mm^2)
- Halogen free
- Lead free

Electrical Properties

- Dielectric strength: 200 V/mil (79 kV/cm)
- Volume resistivity: 10^{13} ohm-cm

Availability

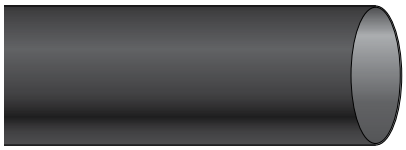
See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Recovered Adhesive Wall Thickness, Min.		Availability, Qty, Cut Pieces at Length
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	6" (152 mm)
FIT-621-5/8	0.600	15.24	0.150	3.81	0.060	1.52	0.050	1.27	3, 10
FIT-621-1-1/4	1.250	31.75	0.220	5.59	0.060	1.52	0.050	1.27	3, 10
FIT-621-2	2.000	50.80	0.374	9.50	0.106	2.69	0.050	1.27	3, 10, 24
FIT-621-2-1/2	2.500	63.50	0.500	12.70	0.120	3.05	0.050	1.27	3, 10
FIT-621-3	3.000	76.20	0.748	19.00	0.140	3.56	0.050	1.27	3, 10
FIT-621-4	4.000	101.60	0.898	22.81	0.155	3.94	0.050	1.27	3, 10

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-650 Heat-Shrink Tubing
2:1 Shrink Ratio, Flexible Fluoroelastomer



AMS-DTL-23053/13

- Excellent chemical resistance
- Wide temperature range
- Flexible
- Oil resistant
- Fuel resistant

Operating Temperature
- -40°C to 200°C

Shrink Temperature
- 130°C min.
- 175°C full recovery

Material
- Flexible fluoroelastomer

Color
- Black

Physical Properties
- Tensile strength: 1,200 psi (8.27 N/mm^2)
- Elongation: 250% min
- Longitudinal change: ±20%
- Flammability: self-extinguishing
- Shelf life: 2 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.50% max
- Fluid resistance: 1,200 psi (8.27 N/mm^2)
- Lead free

Electrical Properties
- Dielectric strength: 200 V/mil (79 kV/cm)
- Volume resistivity: 10^9 ohm-cm

Availability
100 ft (30.5 m)
Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
FIT-650-1/8	0.125	3.18	0.062	1.57	0.031	0.79
FIT-650-3/16	0.187	4.75	0.093	2.36	0.035	0.89
FIT-650-1/4	0.250	6.35	0.125	3.18	0.035	0.89
FIT-650-3/8	0.375	9.53	0.187	4.75	0.035	0.89
FIT-650-1/2	0.500	12.70	0.250	6.35	0.035	0.89
FIT-650-3/4	0.750	19.05	0.375	9.53	0.042	1.07
FIT-650-1	1.000	25.40	0.500	12.70	0.049	1.24
ST-650-1-1/2*	1.500	38.10	0.750	19.50	0.055	1.40

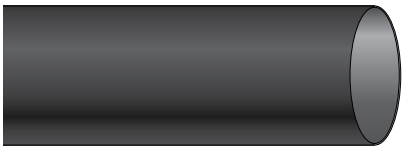
*Available in 50 ft (76 m) spools only.

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-700 Heat-Shrink Tubing

3:1 Shrink Ratio, Heavy-Wall XLPO, Thermoplastic Adhesive Lined



ANSI C119:1
UL 486
CSA 198

- Thermoplastic adhesive bonds to most materials
- Rated for 1 kV, 90°C continuous use
- Superior strength

Operating Temperature

- -55°C to 110°C

Shrink Temperature

- 120°C min.
- 120°C full recovery

Material

- Heavy-wall cross-linked polyolefin
- Thermoplastic adhesive

Color

- Black

Physical Properties

- Tensile strength: 2,100 psi (14.48 N/mm^2)
- Elongation: 600% min
- Longitudinal change: +1%/-10%
- Specific gravity: 1.10
- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.10% max
- Fluid resistance: excellent
- UV resistant
- Lead free

Electrical Properties

- Dielectric strength: 500 V/mil (196.9 kV/cm)
- Volume resistivity: 10^{17} ohm-cm

Availability

Cut pieces (see table)

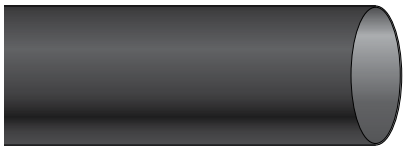
Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Recovered Adhesive Wall Thickness, Min.		Availability, Qty, Cut Pieces at Length
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	12" (304 mm)
FIT-700-21	0.750	19.05	0.240	6.10	0.120	3.05	0.050	1.27	6
FIT-700-22	1.100	27.94	0.350	8.89	0.120	3.05	0.050	1.27	6
FIT-700-23	1.500	38.10	0.470	11.94	0.140	3.56	0.050	1.27	6
FIT-700-24	2.000	50.80	0.630	16.00	0.140	3.56	0.050	1.27	6
FIT-700-25*	3.000	76.20	1.250	31.75	0.160	4.06	0.050	1.27	6
FIT-700-26*	4.500	114.30	1.750	44.45	0.160	4.06	0.050	1.27	6

*Not UL or CSA listed

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-750 Heat-Shrink Tubing
2:1 Shrink Ratio, XLPO, Adhesive Lined



AMS-DTL-23053/4 Class 2
UL 224 VW-1
AS23053
CSA 198

- General-purpose adhesive-lined tubing
- Total encapsulation
- Bonding to substrates

Operating Temperature
- -55°C to 110°C
- -55°C to 125°C (UL, CSA)

Shrink Temperature
- 110°C min.
- 110°C full recovery

Material
- Adhesive-lined cross-linked polyolefin

Color
- Black

Physical Properties
- Tensile strength: 1,500 psi (10.34 N/mm^2)
- Elongation: 200% min
- Longitudinal change: +1%/-5%
- All tubing flame tested
- Self-extinguishing within 1 minute
- Shelf life: 3 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1,000 psi (6.89 N/mm^2)
- UV resistance
- Lead free

Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: 10^{12} ohm-cm

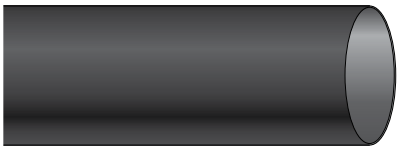
Availability
See table

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Recovered Adhesive Wall Thickness, Min.		Availability, Qty, Cut Pieces at Length
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	4′ (1219 mm)
ST-302-1/8	0.125	3.18	0.063	1.60	0.027	0.69	0.002	0.05	25
ST-302-3/16	0.187	4.75	0.093	2.36	0.027	0.69	0.002	0.05	25
FIT-750-1/4	0.250	6.35	0.125	3.18	0.030	0.76	0.004	0.10	25
FIT-750-3/8	0.375	9.53	0.187	4.75	0.031	0.79	0.004	0.10	25
FIT-750-1/2	0.500	12.70	0.250	6.35	0.032	0.81	0.005	0.13	5
FIT-750-3/4	0.750	19.05	0.375	9.53	0.037	0.94	0.005	0.13	5
FIT-750-1IN	1.000	25.40	0.500	12.70	0.039	0.99	0.007	0.18	5
FIT-750-1-1/2	1.500	38.10	0.750	19.05	0.046	1.17	0.007	0.18	5

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-FABRIC Woven Fabric Heat-Shrink Tubing
2:1 Shrink Ratio, Polyethylene-polyester Fabric



UL 1441 (125°C)
MVSS 302

- Excellent abrasion resistance
- Outstanding flexibility and durability
- Easy installation: cuts with scissors

Operating Temperature
- -40°C to 125°C

Shrink Temperature
- 80°C min.
- 135°C full recovery

Material
- Polyethylene-polyester fabric

Color
- Black

Physical Properties
- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Lead free
- Halogen free
- UV resistant

Availability
See table

Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Ft.	Meter
FIT-FAB-1	0.472	11.99	0.236	5.99	0.040	1.02	50, 200	15.2, 60.9
FIT-FAB-2	0.787	19.99	0.394	10.01	0.040	1.02	50, 200	15.2, 60.9
FIT-FAB-3	1.181	30.00	0.591	15.01	0.040	1.02	50, 200	15.2, 60.9
FIT-FAB-4	1.575	40.01	0.787	19.99	0.040	1.02	50, 200	15.2, 60.9
FIT-FAB-5	1.969	50.01	0.984	24.99	0.040	1.02	25, 100	7.6, 30.5
FIT-FAB-6	2.362	59.99	1.181	30.00	0.040	1.02	25, 100	7.6, 30.5
FIT-FAB-7	2.756	70.00	1.378	35.00	0.040	1.02	25, 100	7.6, 30.5

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-FLEX Highly Flexible Heat-Shrink Tubing
1.7:1 Shrink Ratio, Cross-linked Silicone Rubber



UL 224 VW-1

- Highly flexible over wide temperature range
- Scrape abrasion resistant
- Pliable

Operating Temperature
- -50°C to 200°C

Shrink Temperature
- 80°C min.
- 135°C full recovery

Material
- Cross-linked silicone rubber

Color
- Slate

Physical Properties
- Tensile strength: 870 psi (5.99 N/mm^2)
- Elongation: 350% min
- Longitudinal change: -15%
- Specific gravity: 1.20
- Flammability: self-extinguishing
- Shelf life: 25 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption 1.0% max
- Lead free

Electrical Properties
- 600 V
- Dielectric strength: 200 V/mil (79 kV/cm)
- Volume resistivity: 10^{12} ohm-cm

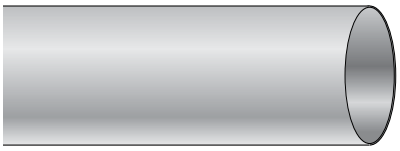
Availability
25 ft (7.6 m)
100 ft (30.5 m)
Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
FIT-FLEX-2	0.165	4.19	0.071	1.80	0.055	1.40
FIT-FLEX-3	0.263	6.68	0.114	2.90	0.055	1.40
FIT-FLEX-5	0.394	10.01	0.173	4.39	0.055	1.40
FIT-FLEX-6	0.512	13.00	0.244	6.20	0.055	1.40
FIT-FLEX-9	0.757	19.23	0.354	8.99	0.059	1.50
FIT-FLEX-12	0.984	24.99	0.492	12.50	0.079	2.01
FIT-FLEX-20	1.378	35.00	0.748	19.00	0.079	2.01

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-CLEAR Heat-Shrink Tubing
2:1 Shrink Ratio, Cross-Linked PVDF



AMS-DTL-23053/18 Class 1
UL 224 VW-1

- Excellent heat and chemical resistance
- Mechanical abrasion and cut-through resistance

Operating Temperature

- -55°C to 175°C
- -55°C to 150°C (UL)

Shrink Temperature

- 150°C full recovery

Material

- Cross-linked polyvinylidene fluoride

Color

- Clear

Physical Properties

- Tensile strength: 3,500 psi (24.13 N/mm^2)
- Elongation: 200% min
- Longitudinal change: ±10%
- Specific gravity: 2.0
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption 0.5% max
- Fluid resistance: 2,000 psi (13.79 N/mm^2)
- Lead free

Electrical Properties

- 600 V (UL)
- Dielectric strength: 400 V/mil (158 kV/cm)
- Volume resistivity: 10^{11} ohm-cm

Availability

See table

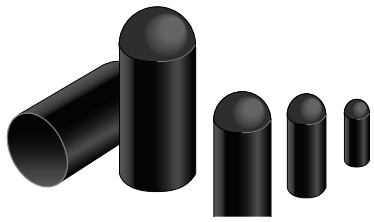
Spools may contain multiple lengths

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Availability	
	Inch	mm	Inch	mm	Inch	mm	Ft.	Meter
FIT-CLEAR-3/64	0.046	1.17	0.023	0.58	0.010	0.25	100	30.5
FIT-CLEAR-1/16	0.063	1.60	0.031	0.79	0.010	0.25	100	30.5
FIT-CLEAR-1/8	0.125	3.18	0.062	1.57	0.010	0.25	100	30.5
FIT-CLEAR-3/16	0.187	4.75	0.093	2.36	0.010	0.25	100	30.5
FIT-CLEAR-1/4	0.250	6.35	0.125	3.18	0.012	0.30	100	30.5

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

CAP Molded Heat-Shrink End Caps
2:1 Shrink Ratio, Semirigid Polyolefin



- Abrasion resistant
- Moisture resistant

Operating Temperature
- -55°C to 135°C

Shrink Temperature
- 135°C full recovery

Material
- Semirigid polyolefin

Color
- Black

Physical Properties
- Tensile strength: 2,500 psi (1.76 N/mm^2)
- Elongation: 300% min
- Recovered parts may have angularity of 30° to 45°
- Specific gravity: 1.25
- Flammability: self-extinguishing
- Shelf life: 25 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption 0.1% max
- UV resistant
- Lead free

Electrical Properties
- Dielectric strength: 700 V/mil (276 kV/cm)
- Volume resistivity: 10^{16} ohm-cm

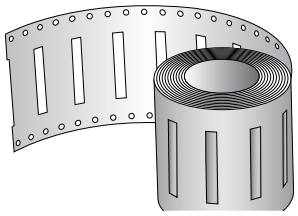
Availability
25-piece packages

Part No.	Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.		Recovered Length, Nom.	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm
CAP-21	0.200	5.08	0.080	2.03	0.040	1.02	0.900	22.86
CAP-22	0.290	7.37	0.130	3.30	0.050	1.27	1.000	25.40
CAP-23	0.400	10.16	0.180	4.57	0.060	1.52	1.200	30.48
CAP-24	0.600	15.24	0.250	6.35	0.070	1.78	1.600	40.64
CAP-25	0.810	20.57	0.370	9.40	0.080	2.03	2.400	60.96
CAP-26	1.000	25.40	0.450	11.43	0.090	2.29	2.700	68.58
CAP-27	1.550	39.37	0.710	18.03	0.100	2.54	3.600	91.44

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-PRINT Heat-Shrinkable Identification System
3:1 Shrink Ratio, XLPO



UL 224
CSA 198
MIL-STD-202F Method 215J

- Permanent, smear-resistant marking
- Identification for cable or harness assemblies

Operating Temperature
- -30°C to 105°C

Shrink Temperature
- 90°C min.
- 125°C full recovery

Material
- Cross-linked polyolefin

Color
- White, yellow

Physical Properties
- Tensile strength: 1,160 psi (8.0 N/mm^2)
- Elongation: 150% min
- Longitudinal change: 20%
- Flame retardant
- Shelf life: 3 years at 18°C to 35°C

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5%

Electrical Properties
- Dielectric strength: 20 V/mil (7.9 kV/cm)
- Volume resistivity: 10^{14} ohm-cm

Availability
250 tubing pieces per package

Part No.	Range			Supplied ID, Min.		Recovered ID, Max.		Recovered Wall Thickness, Nom.	
	AWG	Inch	mm	Inch	mm	Inch	mm	Inch	mm
FIT-PRINT-1/8	22 – 16	0.344 – 1.374	8.74 – 34.90	0.125	3.18	0.042	1.07	0.023	0.58
FIT-PRINT-1/4	16 – 8	1.374 – 3.264	34.90 – 82.92	0.250	6.35	0.083	2.11	0.023	0.58
FIT-PRINT-1/2	8 – 2	3.264 – 6.543	82.92 – 166.19	0.500	12.70	0.166	4.22	0.023	0.58
FIT-PRINT-1	2 – 4/0	6.543 – 10.2	166.19 – 259.08	1.000	25.40	0.333	8.46	0.023	0.58

To economically meet the wire identification needs of the electronic interconnect, industrial, computer office automation, marine, and electrical markets, FIT-PRINT sleeves allow smear-resistant, permanent identification. The sleeves, available in white or high-visibility bright yellow, feed directly into dot matrix printers (high carbon content ribbon recommended). A standard ball-point pen may also be used.

CA PROP 65 RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-KIT
Assorted Heat-Shrink Tubing



- **For use in R&D labs, engineering development, and maintenance departments**

FIT-KIT-1 for General-Purpose Indoor Applications
Tubing supplied in 6" (15.2 cm) lengths unless otherwise noted.

Family	Material	Sizes	Range	Total Quantity
FIT-105	PVC	9	3/64" – 3/4"	18
FIT-221	XLPO	9	3/64" – 3/4"	19
FIT-295	SR-XLPO	8	3/64" – 1/2"	12
FIT-300	XLPO	5	1/8" – 1/2"	10
FIT-350	PVDF	7	3/64" – 3/8"	14
FIT-CRIMP	Nylon	22 – 10 AWG	—	3 pc*
Caps	XLPO	22, 23, 24 AWG	—	6 pc

*1 each of FIT-CRIMP 1, 2, and 3.

FIT-KIT-2 for General-Purpose Indoor and Outdoor Applications
Tubing supplied in 6" (15.2 cm) lengths unless otherwise noted.

Family	Material	Sizes	Range	Total Quantity
FIT-105	PVC	9	3/64" – 3/4"	18
FIT-221	XLPO	9	3/64" – 3/4"	19
FIT-295	SR-XLPO	8	3/64" – 1/2"	12
FIT-300	XLPO	5	1/8" – 1/2"	10
FIT-321	Adhesive-Lined XLPO	2	1/4" – 1/2"	16, 24*
FIT-350	PVDF	7	3/64" – 3/8"	14
FIT-400	FEP	6	24 – 12 AWG	22
FIT-500	PTFE	5	26 – 18 AWG	17
FIT-600	Chlorinated PO	5	1/4" – 1"	8
FIT-700	Thermoplastic Adhesive-Lined XLPO	2	21 – 22	2
FIT-750	Adhesive-Lined XLPO	1	3/8"	10*
FIT-CRIMP	Nylon	22 – 10 AWG	—	3 pc**
Caps	XLPO	22, 23, and 24	—	6 pc

*1"/25.4 mm length.
**1 each of FIT-CRIMP 1, 2, and 3.

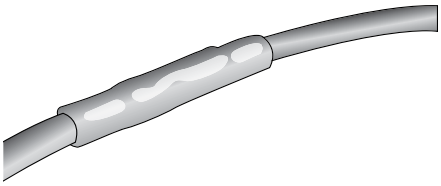
FIT-KIT-7 for General-Purpose Indoor and Outdoor Applications
Tubing supplied in 6" (15.2 cm) lengths unless otherwise noted.

Family	Material	Sizes	Range	Total Quantity
FIT-105	PVC	7	1/16" – 1/2"	14
FIT-221	XLPO	7	1/16" – 1/2"	28
FIT-260	XLPO (Ground Lead)	3	1/8" – 1/2""	6
FIT-300	XLPO	4	3/8" – 1/2"	8
FIT-321	Adhesive-Lined XLPO	3	1/8" – 1/2"	6
FIT-350	PVDF	7	1/6" – 1/2"	14
FIT-400	FEP	7	24 – 12 AWG	14
FIT-750	Adhesive-Lined XLPO	5	1/4" – 1"	10
FIT-CRIMP	Nylon	22 – 10 AWG	—	12 pc*

*4 each of FIT-CRIMP 1, 2, and 3.

FIT® Heat-Shrink Tubing

FIT®-CRIMP Heat-Shrinkable Crimp Splices
2:1 Shrink Ratio, Nylon



UL ZMVV

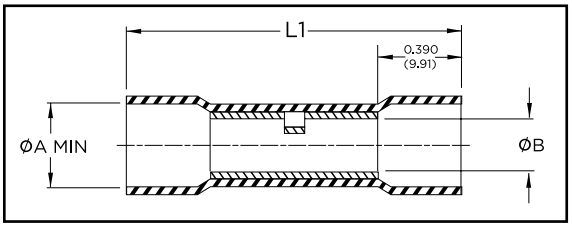
Operating Temperature
- -55°C to 125°C

Material
- Heat-shrinkable nylon
- Polyamide-based adhesive
- Tin-plated copper base metal

Physical Properties
- Shelf life: 25 years at 18°C to 35°C
- Not flame retardant

Chemical Properties
- Solvent resistance: isopropyl alcohol, trichloroethylene, gasoline, battery acid, diesel fuel, motor oil, anti-freeze, brake fluid, 5% salt water

Availability
100-piece packages
500-piece packages



Part No.	Wire Range		Color	Length		Supplied ID, Min.				Recovered ID, Max.	
				L1		A		B		A	
	AWG	mm²		Inch	mm	Inch	mm	Inch	mm	Inch	mm
FIT-CRIMP 1	22 – 18	0.26 – 0.96	Red	1.50	38.10	0.170	4.32	0.058	1.47	0.055	1.40
FIT-CRIMP 2	16 – 14	1.04 – 2.62	Blue	1.50	38.10	0.197	5.00	0.092	2.34	0.080	2.03
FIT-CRIMP 3	12 – 10	2.62 – 6.64	Yellow	1.70	43.18	0.255	6.48	0.138	3.51	0.110	2.79

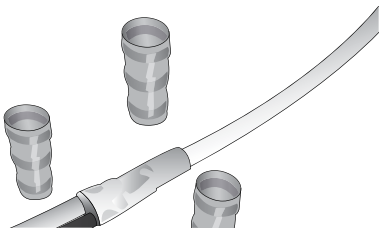
Alpha Wire's heat-shrinkable pre-insulated crimp splices completely seal electrical connections from corrosion caused by water, salts, and other contaminants. Unlike conventional splices, these adhesive-lined butt connectors provide a strong reinforced connection. They are lightweight and easy to install, too.

Simply insert the wires. The sleeve's transparent nylon insulation lets you inspect wire location and position your crimping tool fast. Crimp the splice and then shrink and seal it with a common heat gun or other heat source. Reliable sealing plus quick and easy installation add up to protection you can count on whenever wire splices are required, including automobile and truck wiring, outdoor electrical equipment, marine equipment, telecommunications equipment, recreational equipment, and household appliances.

RoHS Compliant

FIT® Heat-Shrink Tubing

FIT®-SLV Soldering Sleeves



ANSI J-STD-004
ANSI J-STD-006
NAS 1745

Operating Temperature

- -55°C to 105°C (SLV 12 – 16)
- -55°C to 125°C (SLV 22 – 26)

Color

- Transparent blue

Material

- PVDF heat-shrinkable sleeve

Physical Properties

- Shelf life: 25 years at 18°C to 35°C

Solder Perform

- 105°C Series: 51.2% tin, 30.6% lead, 18.2% cadmium (143°C melting temperature)
- 125°C Series: 63% tin, 37% lead (183°C melting temperature)

Availability

25-piece packages
100-piece packages

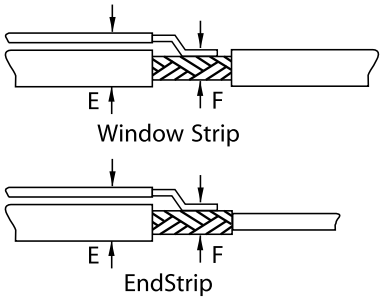
Part No.		Dimensions					
		D1 min.		D min.		L nom.	
105°C	125°C	Inch	mm	Inch	mm	Inch	mm
FIT-SLV-12	**FIT-SLV-22**	0.125	3.18	0.110	2.79	0.625	15.88
FIT-SLV-14	**FIT-SLV-24**	0.200	5.08	0.180	4.57	0.625	15.88
FIT-SLV-16	**FIT-SLV-26**	0.300	7.62	0.280	7.11	0.750	19.05

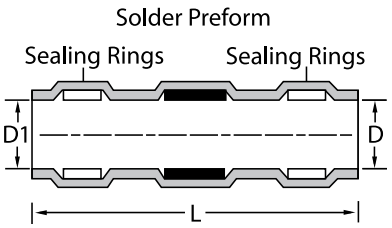
Alpha's FIT-SLV soldering sleeve is a one piece, shield ground termination system featuring a strong, low-cost soldered connection that is completely insulated and encapsulated. It consists of a heat-shrinkable thermoplastic sleeve containing a precisely engineered preform of fluxed solder and thermoplastic inserts at each end. When placed over a cable shield and heated, the solder melts and flows, connecting the ground lead and shield. The outer sleeve shrinks and the thermoplastic inserts melt, encapsulating the termination. The result is a perfectly soldered, strain-relieved and environmentally protected termination.

A solder preform ensures exact equantity of solder and flux, producing optimum solder connections for maximum strength and lowest voltage drop. Transparent heat-shrinkable insulating sleeve allows inspection of termination, and provides long-life strain relief. Meltable inserts insure complete environmental protection.

Selection Guide

1 Measure maximum diameter (E) and minimum diameter (F) of combined cable and ground lead.
2. Find appropriate Alpha part number and sleeve size in the cable and sleeve dimensions chart.





FIT® Accessories

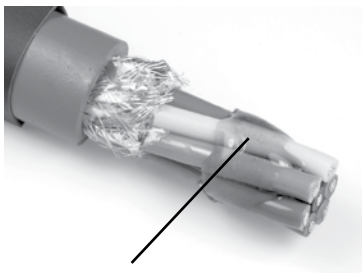
FIT Heat Guns

Part No.	FIT-GUN-1	FIT-GUN-3
		
Temperature, Low	60°C (140°F)	316°C (600°F)
Temperature, High	566°C (1,050°F)	510°C (950°F)
Temperature Selection	Slider switch: Off, Low, Medium, High	Slider switch: Off, Low, High
Power	1400 W	1300 W
Voltage	120 VAC/60 Hz	120 VAC/60 Hz
Current	11.6 A	10.0 A
Power Cord Length	6.5 ft (2 m)	6.5 ft (2 m)
Net Weight	2.2 lb (1 kg)	1.6 lb (0.68 kg)
Color	Black/gray	Black/gray
Nozzle Attachments	Reflector nozzle	—
Approvals	UL 499 c UL us RoHS Compliant	UL 499 c UL us RoHS Compliant
Part No.	**FIT-GUN1**	**FIT-GUN3**

FIT-FILL Adhesive

A unique adhesive filler, FIT-FILL is amber bead-like balls of adhesive that are ideal for use when additional adhesive is needed, or when the tubing does not effectively cover the desired locations. FIT-FILL is an ideal complement to FIT Heat-Shrink Tubing for applications involving multiple wires in a tubing array, where the tubing's inner adhesive does not touch the inner wires. FIT-FILL aids in creating a better tubing-to-cable seal to prevent water entry, while providing extra protection to maintain the integrity of the cable.





FIT-FILL is the perfect way to fill and seal interstitial void

Part No. Size
- FITFILL1

Material
- Modified Polyamide

Color
- Amber

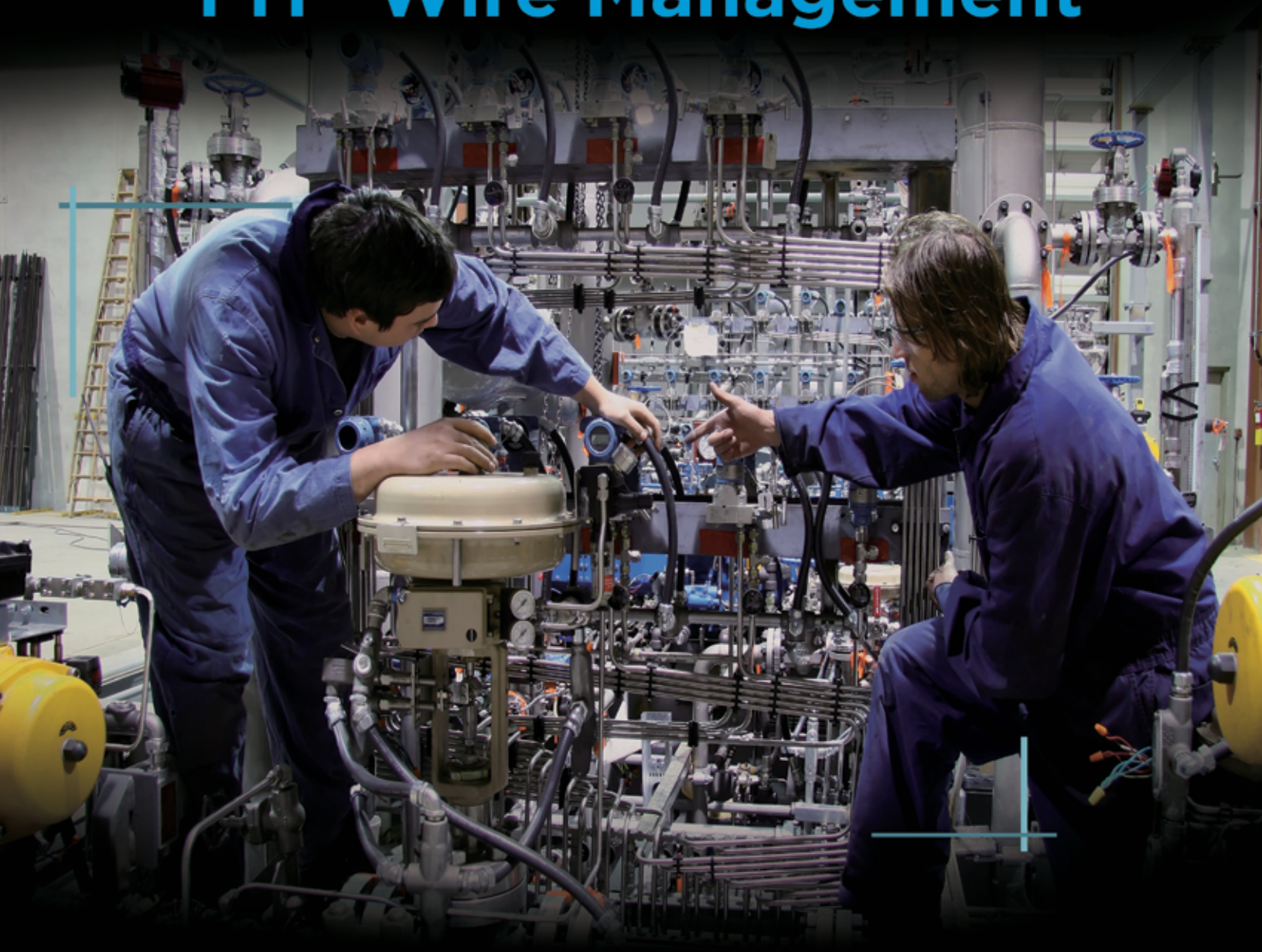
Size
- ID: 0.138" (3.51 mm)
- OD: 0.295" (7.49 mm)
- Opening: 0.055" (1.40 mm)
- Length: 0.197 (5 mm)

Operating Temperature
- -10°C to 105°C

Shrink Temperature
- 90°C min.

Availability
- Packs of 1,000

FIT® Wire Management



Medical Equipment

Industrial Automation

Semi-conductor Equipment

Aerospace and Defence

Energy and Solar

Consumer Electronics

FIT® Wire Management

Better Wire Management Means Better Harnesses





Bringing order to wire harnesses and cable routing means a system that is more reliable, easier to fabricate, and simpler to maintain. Our woven sleeves are tough and flexible. For additional resistance to chemicals, oils, and solvents, our flexible tubing offers exceptional performance and operates at temperatures as high as 260°C. Our braided shields are effective and easy to use for additional EMI protection or a ground connection.

Neatness counts

As a leader in premium products, Alpha Wire knows wire and cable. And we know the challenges you face in creating harnesses, routing and combating noise. Our FIT wire management products are designed to tame the most unruly applications.

Harnessing

Make any wire harness organized, manageable, and neat with our tubing, sleeving, spiral wrap tubing, zipper tubing, and lacing tape.

Our unique ZIP-GRP expandable, enclosure sleeving allows easy re-entry and unlimited wire and cable break outs with its hook-and-loop fastener system.

Shielding

Add shielding easily and quickly. We offer flat, round, and oval braided shielding for additional protection against EMI and for grounding protection. Our copper foil shielding tape is backed with a highly conductive, pressure-sensitive adhesive for use in a wide variety of EMI/RFI shielding applications in cable and connector assemblies.

Routing

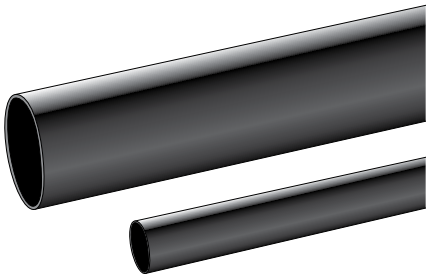
Get the advantages of conduit in a flexible, non-metallic, liquid-tight tubing and connection system that protects wire, copper cable, and fiber-optic cable in factories, offices, or underground installations.

Use our watertight tubing to replace rigid raceways where flexibility, re-entry, or re-usability is required. Additionally, Alpha offers split looms to provide a convenient solution for your routing needs.

UL LISTED CSA CE RoHS Compliant CA PROP 65

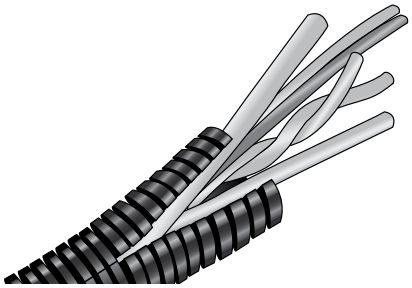
FIT® Wire Management

Better Wire Management Means Better Harnesses



PVC-105

PVC tubing is the workhorse choice for protecting, organizing, and routing cables.

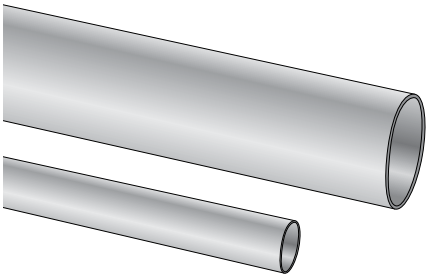


Convoluted Slit Loom Tubing and Tee Connector Fittings

Type 492 Tubing

Type 493 Fittings

Flexible polyethylene loom material permits fast, easy installations and protection of harness and cable assemblies. The loom is slit full length so that it slides over the completed wire assembly easily, but closes after installation to protect the wire bundle. The slit allows the wires to break out at any point along the cable length for custom installation. Companion snap-on connectors provide simple, clean cable junctions.



Flexible PTFE Tubing

TFT-200 Thin-Wall Tubing

TFT-250 Standard-Wall Tubing

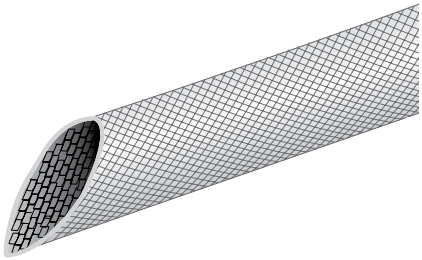
To improve the reliability of cable harnesses, PTFE tubing provides a heat- and abrasion-resistant wire insulator under the most adverse conditions. With an unmatched temperature range, exceptional abrasion resistance, and excellent dielectric properties, it maintains flexibility over its entire temperature range.



PVC-Coated Fiberglass Sleeving

PIF-130

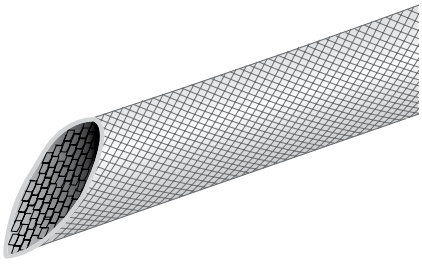
PIF-130 sleeving is a woven fiberglass braid impregnated with a heat-resistant, extremely tough, abrasion-resistant and flexible plastic insulation. The fiberglass is treated to remove all organic matter and resist fraying. The sleeving is completely compatible with all insulation and conductor types.



Uncoated Fiberglass Sleeving

PIF-240

PIF-240 sleeving is extremely flexible and abrasion resistant. It is ideal for applications requiring operation up to 648°C. It is heat treated to remove all organic matter, and it is completely compatible with all insulation and conductor types.



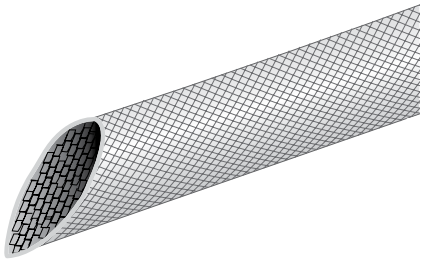
Acrylic-Coated Fiberglass Sleeving

AF-155

AF-155 is a specially designed fiberglass sleeving coated with a thermally stable, flexible, acrylic resin for wire and cable protection in electrical equipment. The most economical and versatile of all coated sleeving products, it offers high heat resistance, extreme flexibility, and resistance to cracking, abrasion, cut-through, and chemicals.

FIT® Wire Management

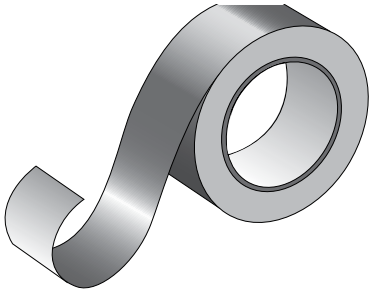
Better Wire Management Means Better Harnesses



Silicone-Coated Fiberglass Sleeving

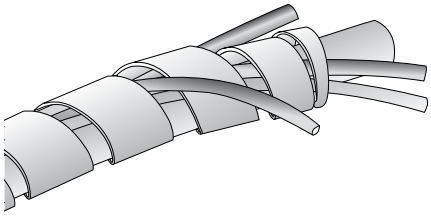
PIF-200, SF-200

PIF-200 and SF-200 sleeving offers high heat and superior electrical characteristics in a closely woven, braided fiberglass, uniformly coated with silicone rubber. It provides low temperature flexibility to -70°C and heat protection to 200°C. The fiberglass sleeving material is heat-set, cuts cleanly and will not fray. It is easy to "push back" and form over components, connections, and cables.



CST Series

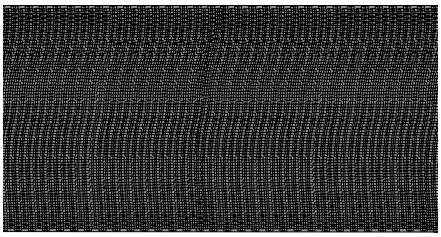
The pressure-sensitive adhesive contains a uniform dispersion of unique oxidation-resistant conductive particles that produce very low resistance through the tape. This feature results in shielding performance approximately 5 dB better than other metal foil shielding tapes.



Spiral Wrap Tubing

SW

Spiral Wrap Tubing simplifies wire harnessing, cabling, and bundling. Alpha's SW tubing wraps tightly to the wire and cable being bundled, yet is flexible and simple to apply. All types maintain flexibility even when bent around sharp edges. Breakouts or tap off connections may be made through the openings of the wrap. SW spiral wrap is constructed from several semi-rigid tubing materials and then cut on a continual spiral.



Expandable Braided Polyester Sleeving

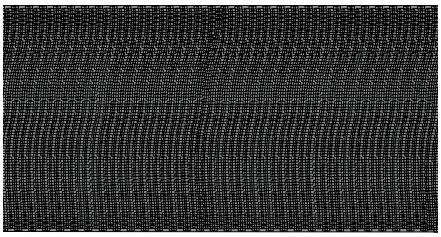
GRP-110, GRP-120

GRP-110/120 are lightweight, expandable woven polyester sleeving that offer high flexibility with high resistance to abrasion and cut-through. The open weave allows for a great range of expansion of the sleeving diameter, thus ensuring ease of installation and gripping action over a wide range of shapes and sizes. GRP sleeving is an ideal protective sleeve for wire bundles, harnesses, pneumatic hoses, hydraulic lines, and highly polished or threaded machine parts.

To prevent fraying of ends, GRP-110 and GRP-120 should be cut/sealed with a hot knife.

FIT® Wire Management

Better Wire Management Means Better Harnesses



Non-Fraying, Expandable Braid Sleeving

GRP-110NF, GRP-120NF

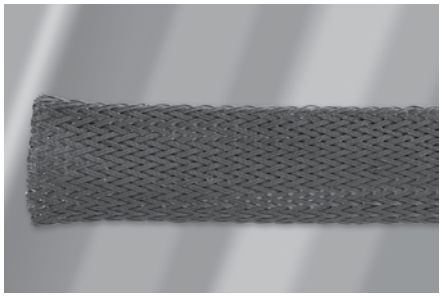
GRP-110NF/120NF sleeving cuts cleanly and fray-free with scissors, with no hot knife required. It is a lightweight, expandable woven polyester sleeving that offers high flexibility with high resistance to abrasion and cut-through. The open weave allows for a great range of expansion of the sleeving diameter, thus ensuring ease of installation and gripping action over a wide range of shapes and sizes. GRP sleeving is an ideal protective sleeve for wire bundles, harnesses, pneumatic hoses, hydraulic lines and highly polished or threaded machine parts.



Wrappable Sleeving

GRP-130, GRP-130NF

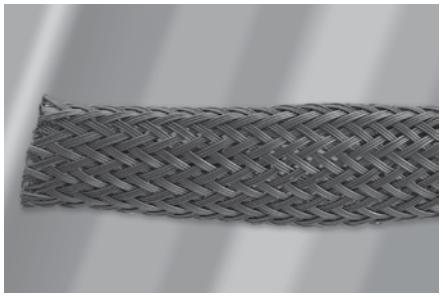
A unique split, semi-rigid braided construction allows GRP-130 and GRP-130NF sleeving to be installed quickly and easily. The lateral split opens up to accommodate a wide variety of bundling requirements, and then closes around the entire installation without the need for any additional fasteners. The sleeving bends to a tight radius without distorting or splitting open and, unlike full rigid tubing, will not impair or affect the flexibility of harnesses.



Advanced Protection Expandable Sleeving

GRP-160

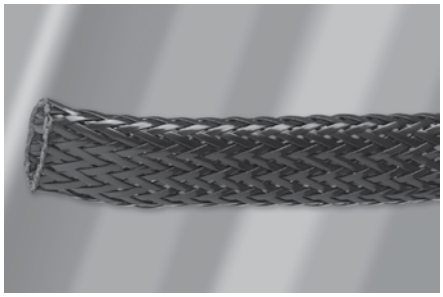
This heavy-duty, flexible sleeving is extremely versatile in any industrial application requiring abrasion protection without sacrificing flexibility or durability. GRP-160 sleeving is economical and easy to use, cutting cleanly with a hot knife, and expanding up to 50% for easy installation over plugs and connectors. It resists fuels, UV, solvents, salt water, and most chemicals.



Advanced Chemical-Resistant Expandable Sleeving

GRP-170

GRP-170 is lightweight sleeving, resistant to high temperatures and virtually impervious to solvents. The sleeving resists all known solvents below 200°C; is chemical resistant, is inert to steam, strong bases, fuels and acids; and offers high temperature stability, low moisture absorption, excellent dimensional stability and ultra-low wear.



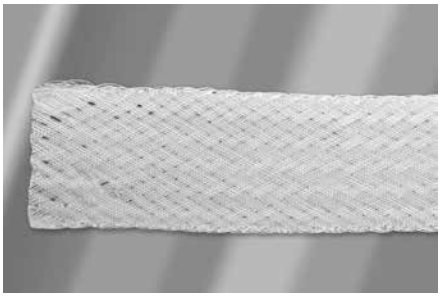
Maximum Protection Expandable Sleeving

GRP-180

For a thick abrasion guard offering extreme protection against abrasion and cut-through on hoses and cables exposed to harsh conditions. GRP-180 provides fuller coverage for increased resistance to abrasion and penetration, and still expands for easy installation over long lengths. The braided construction allows moisture to dissipate quickly to prevent rot and fungus.

FIT® Wire Management

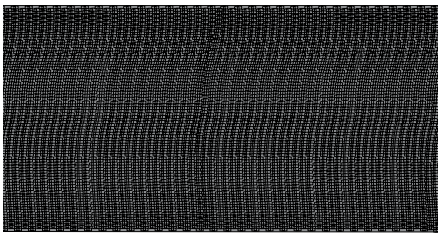
Better Wire Management Means Better Harnesses



Extreme Performance Expandable Sleeving

GRP-200

GRP-200 sleeving uses PTFE to allow the highest levels of performance, including resistance to chemicals, flame, and high temperatures. Thermal stability and low outgassing make it suited to aerospace, military and high-tech applications. GRP-2000 sleeving is suitable for plenum applications.



Braided Sleeving

XS-200N

Durable overbraiding for military and commercial cable assemblies protects against abrasion, mildew and aging. Type XS-200N nylon braided self-fitting cable sleeving has been designed to cover and protect round and flat cable assemblies. The variety of sizes and self-fitting features make selection easy for solving many of the cable assembly design problems found in electronic, electrical, aerospace, process control, and robotic-automation equipment.



Expandable Polyester Braided Sleeving

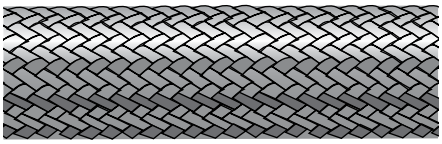
ZIP-GRP

ZIP-GRP expandable webbing offers superb flexibility and high tensile strength while providing added protection against flame, chemicals and abrasion. With its hook-and-loop fastening, wires, cable assemblies, and wire harnesses are always accessible and can be easily opened for any number of breakouts. To prevent fraying of ends, ZIP-GRP should be cut/sealed with a hot knife.



Lacing Tape

Alpha lacing tapes offer high tensile strength and knot retention. Designed to allow a wider contact area with the insulation so that it remains in place, lacing tape is flexible and easy on the assembler's hands. Once knotted, tape resists slipping and does not increase the diameter of harness. Nylon has excellent tensile strength and resists acids, abrasion, flame, and fungus. Polyester has all the characteristics of nylon, but has better resistance to acids, and no appreciable discoloration.



Tinned and Silver-Plated Copper Braid

A tight weave of multistrand, soft-drawn copper wire (either tinned or silver plated), copper braid is an ideal shielding material for short-run cables, providing easy radial termination. In retrofit applications, it provides additional shielding efficiency. Tinned copper flat braid, used as a ground strap, provides an excellent, low-resistance ground path.

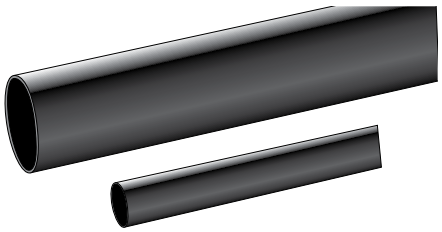


Cable Gland

Our broad offering includes a full range of easily installed standard dome glands, flexible spiral glands, and sealing hole plugs. All products are available in NPT, metric and PG thread sizes. Glands are packaged with an accompanying locknut and a gasket, providing you with a complete strain-relief solution.

FIT® Wire Management

Multipurpose PVC Tubing
PVC-105



UL 224 VW-1
CSA 198
MIL-I-631D Type F, Form U, Subform Ua, Grade C
ASTM D922

Operating Temperature

- -20°C to 105°C

Color

- Size #24 to 1-1/2 inches: Black, clear
- 2 Inches to 2-1/2 inches: Black

Physical Properties

- Tensile strength: 2,780 psi (19.17 N/mm^2)
- Elongation: 260%
- Specific gravity: 1.32
- Flammability: UL 224 VW-1

Chemical Properties

- Corrosive effect: non-corrosive
- Fungus resistance: no growth
- UV stable
- Lead free

Electrical Properties

- Dielectric strength: 870 V/mil (343 kV/cm)
- Volume resistivity: 2 x 10^{14} ohm-cm
- UL voltage rating: Sizes #24 to #1: UL rated 300 V 5/16 to 2 inches: UL rated 600 V

Availability

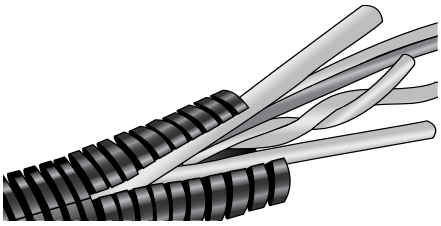
- See table
- PVC-105-24 to PVC-105-1 are available air spooled on the largest put-ups only

CA PROP 65 RoHS Compliant

Part No.	Inside Diameter, Min.		Inside Diameter, Max.		Wall Thickness, Nom.		Standard Put-Ups	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
PVC-105-24	0.022	0.56	0.027	0.69	0.012	0.30	1000	305
PVC-105-22	0.025	0.64	0.032	0.81	0.012	0.30	100, 1000	30.5, 305
PVC-105-20	0.032	0.81	0.039	0.99	0.016	0.41	1000	305
PVC-105-19	0.036	0.91	0.044	1.12	0.016	0.41	1000	305
PVC-105-18	0.040	1.02	0.049	1.24	0.016	0.41	100, 1000	30.5, 305
PVC-105-17	0.045	1.14	0.054	1.37	0.016	0.41	100, 1000	30.5, 305
PVC-105-16	0.051	1.30	0.061	1.55	0.016	0.41	100, 1000	30.5, 305
PVC-105-15	0.057	1.45	0.067	1.70	0.016	0.41	100, 1000	30.5, 305
PVC-105-14	0.064	1.63	0.072	1.83	0.016	0.41	100, 500	30.5, 152
PVC-105-13	0.072	1.83	0.08	2.03	0.016	0.41	100, 500	30.5, 152
PVC-105-12	0.081	2.06	0.089	2.26	0.016	0.41	500	152
PVC-105-11	0.091	2.31	0.101	2.57	0.016	0.41	100, 500	30.5, 152
PVC-105-10	0.102	2.59	0.112	2.84	0.016	0.41	500	152
PVC-105-9	0.114	2.90	0.124	3.15	0.020	0.51	500	152
PVC-105-8	0.129	3.28	0.141	3.58	0.020	0.51	100, 500	30.5, 152
PVC-105-7	0.144	3.66	0.158	4.01	0.020	0.51	100, 500	30.5, 152
PVC-105-6	0.162	4.11	0.178	4.52	0.020	0.51	100, 500	30.5, 152
PVC-105-5	0.183	4.65	0.198	5.03	0.020	0.51	100, 500	30.5, 152
PVC-105-4	0.204	5.18	0.224	5.69	0.020	0.51	100, 250	30.5, 76
PVC-105-3	0.229	5.82	0.249	6.32	0.020	0.51	100, 250	30.5, 76
PVC-105-2	0.258	6.55	0.278	7.06	0.020	0.51	250	76
PVC-105-1	0.289	7.34	0.311	7.90	0.020	0.51	100, 250	30.5, 76
PVC-105-5/16	0.313	7.95	0.334	8.48	0.025	0.64	100, 250	30.5, 76
PVC105-0	0.325	8.26	0.347	8.81	0.020	0.51	100, 250	30.5, 76
PVC-105-3/8	0.375	9.53	0.399	10.13	0.025	0.64	100, 250	30.5, 76
PVC-105-7/16	0.438	11.13	0.462	11.73	0.025	0.64	100	30.5
PVC-105-1/2A	0.500	12.70	0.524	13.31	0.025	0.64	100	30.5
PVC-105-9/16	0.562	14.27	0.592	15.04	0.030	0.76	100	30.5
PVC-105-5/8	0.625	15.88	0.655	16.64	0.030	0.76	100	30.5
PVC-105-3/4	0.750	19.05	0.786	19.96	0.035	0.89	50	15.2
PVC-105-7/8	0.875	22.23	0.911	23.14	0.035	0.89	50	15.2
PVC-105-1IN	1.000	25.40	1.036	26.31	0.035	0.89	50	15.2
PVC-105-1-1/8	1.125	28.58	1.161	29.49	0.035	0.89	50	15.2
PVC-105-1-1/4	1.250	31.75	1.29	32.77	0.040	1.02	50	15.2
PVC-105-1-1/2	1.500	38.10	1.55	39.37	0.045	1.14	50	15.2
PVC-105-2IN	2.000	50.80	2.07	52.58	0.060	1.52	50	15.2

FIT® Wire Management

Convoluted Slit Loom Tubing
Type 492



- Abrasion and fluid resistant
- Light weight
- Easy, flexible cable breakouts

Part No.	Inside Diameter, Min.		Inside Diameter, Max.		Outside Diameter, Min.		Outside Diameter, Max.	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm
492250	0.256	6.50	0.276	7.01	0.373	9.47	0.398	10.11
492350	0.341	8.66	0.38	9.65	0.496	12.60	0.526	13.36
492413	0.399	10.13	0.437	11.10	0.569	14.45	0.597	15.16
492500	0.473	12.01	0.516	13.11	0.664	16.87	0.70	17.78
492625	0.603	15.32	0.639	16.23	0.802	20.37	0.837	21.26
492750	0.707	17.96	0.759	19.28	0.95	24.13	0.989	25.12
492100	1.020	25.91	1.069	27.15	1.251	31.78	1.304	33.12
492150	1.566	39.78	1.647	41.83	1.867	47.42	1.947	49.45
492200	1.969	50.01	2.038	51.77	2.285	58.04	2.388	60.66

Operating Temperature

- -40°C to 93°C

Color

- Black

Material

- PE

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Lead free

Electrical Properties

- Volume resistivity: 10^{15} ohm-cm

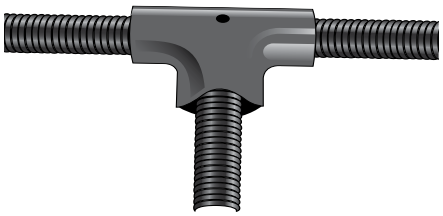
Availability

100 ft (30.5 m)

CA PROP 65 RoHS Compliant

FIT® Wire Management

Loom Tee Connector Fittings
Type 493



Part No.	Mating Loom Size					
	Left		Center		Right	
	Inch	mm	Inch	mm	Inch	mm
493100	0.413 or 0.500	10.49 or 12.70	0.413 or 0.500	10.49 or 12.70	0.413 or 0.500	10.49 or 12.70
493101	0.500	12.70	0.350	8.89	0.750	19.05
493102	0.500	12.70	0.413	10.49	0.750	19.05
493103	0.750	19.05	0.500	12.70	0.750	19.05
493110	0.413	10.49	0.350	8.89	0.350	8.89
493118	1.000	25.40	0.625	15.88	0.100	2.54

Operating Temperature

- -40°C to 90°C

Color

- Black

Material

- PE

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Lead free

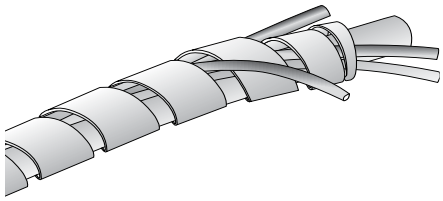
Availability

Single pieces

CA PROP 65 RoHS Compliant

FIT® Wire Management

Spiral Wrap Tubing
SW



- **Flexible cable bundling**
- **Easy breakouts**

See table for specifications

	SW-1 to SW-6	SW-10 to SW-14	SW-20 to SW-25	SW-30 to SW-35	SW-40 to SW-45	SW-50 to SW-53
Material	Natural Polyethylene	Flame-Retardant Polyethylene	Nylon	PTFE	UV-Resistant Polyethylene	PVC
Colors	Natural	White	Natural	Natural, Black	Black	Black
Operating Temperature (°C)	-66 to 88	-20 to 80	-40 to 121	-268 to 260	-66 to 88	-20 to 80
Abrasion Resistance (Taber)	22	27	6 - 8	7	20	Excellent
Flame Rating	Not rated	UL 1441 Self-extinguishing	Self-extinguishing	UL VW-1	Not rated	Self-extinguishing
Tensile Strength (psi (N/mm²)	1800 (12.41)	1300 (8.96)	12,000 (82.74)	3000 (20.68)	2000 (13.79)	3000 (20.68)
Water Absorption (%)	0.014	0.02	1.5	0.005	0.03	—
Dielectric Constant (Max.)	—	2.58	4.0	2.1	—	—
Effects of Alkalis and Acids	None	None	None	None	None	Satisfactory*
Weather Resistance	N/A	N/A	N/A	Excellent	N/A	N/A
Specs	UL UZKX2 MIL-I-631D, Type A, Form U MIL-P-21922B ASTM 1248-65T Type 1 Class A, Grade 3 A-A-59602, Type 1, Class 1	UL UZKX2 A-A-59602, Type 1, Class 3	UL UZKX2 ASTM-D-4066, Group 2, Class 1	UL UZKX2 ASTM-D-3295-01, Group 4 A-A-59602, Type 3, Class 1 (as noted)	UL UZKX2 MIL-I-631D, Type A, Form U MIL-P-21922B, Type 1 Class L A-A-59602, Type 1, Class 2	—

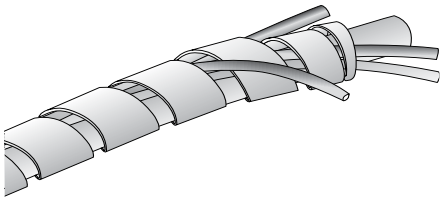
*Satisfactory except for high concentrations; not recommended for organic solvents.

CA PROP 65 RoHS Compliant

FIT® Wire Management

Spiral Wrap Tubing

SW



- Flexible cable bundling
- Easy breakouts

See table for specifications

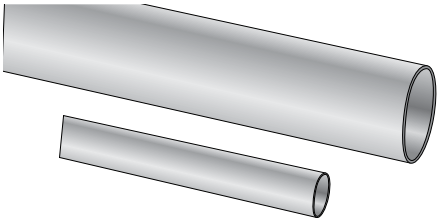
Part No.	Material	Trade Size	Outside Diameter, Nom.		Wall Thickness, Nom.		Right-Hand Pitch, Nom.		Standard Put-Ups*	
			Inch	mm	Inch	mm	Inch	mm	Ft	m
SW-1	Natural PE	1/8	0.125	3.18	0.032	0.81	0.187	4.75	25, 100, 500	7.6, 30.5, 152
SW-2	Natural PE	1/4	0.250	6.35	0.045	1.14	0.375	9.53	25, 100, 500	7.6, 30.5, 152
SW-3	Natural PE	3/8	0.375	9.53	0.052	1.32	0.438	11.13	25, 100	7.6, 30.5
SW-4	Natural PE	1/2	0.500	12.70	0.062	1.57	0.563	14.30	25, 100	7.6, 30.5
SW-5	Natural PE	3/4	0.750	19.05	0.065	1.65	0.750	19.05	25, 100, 500	7.6, 30.5, 152
SW-6	Natural PE	1	1.000	25.40	0.080	2.03	1.000	25.40	25, 100, 500	7.6, 30.5, 152
SW-10	FR PE	1/8	0.125	3.18	0.032	0.81	0.187	4.75	25, 100, 500	7.6, 30.5, 152
SW-11	FR PE	1/4	0.250	6.35	0.045	1.14	0.375	9.53	25, 100, 500	7.6, 30.5, 152
SW-12	FR PE	3/8	0.375	9.53	0.052	1.32	0.438	11.13	25, 100	7.6, 30.5
SW-13	FR PE	1/2	0.500	12.70	0.062	1.57	0.563	14.30	25, 100	7.6, 30.5
SW-14	FR PE	3/4	0.750	19.05	0.065	1.65	0.750	19.05	25, 100	7.6, 30.5
SW-20	Nylon	1/8	0.125	3.18	0.015	0.38	0.187	4.75	25, 100, 500	7.6, 30.5, 152
SW-21	Nylon	1/4	0.250	6.35	0.025	0.64	0.375	9.53	25, 100, 500	7.6, 30.5, 152
SW-22	Nylon	3/8	0.375	9.53	0.035	0.89	0.438	11.13	25, 100	7.6, 30.5
SW-23	Nylon	1/2	0.500	12.70	0.035	0.89	0.500	12.70	25, 100	7.6, 30.5
SW-24	Nylon	3/4	0.750	19.05	0.032	0.81	0.750	19.05	25, 100, 500	7.6, 30.5, 152
SW-25	Nylon	1	1.000	25.40	0.032	0.81	1.000	25.40	25, 100	7.6, 30.5
SW-30	PTFE	1/8	0.125	3.18	0.030	0.76	0.187	4.75	25, 100	7.6, 30.5
SW-31	PTFE	1/4	0.250	6.35	0.030	0.76	0.375	9.53	25, 100	7.6, 30.5
SW-32**	PTFE	3/8	0.375	9.53	0.030	0.76	0.438	11.13	25, 100	7.6, 30.5
SW-33**	PTFE	1/2	0.500	12.70	0.030	0.76	0.500	12.70	25, 100	7.6, 30.5
SW-34**	PTFE	3/4	0.750	19.05	0.032	0.81	0.750	19.05	25, 100	7.6, 30.5
SW-35	PTFE	1	1.000	25.40	0.040	1.02	1.000	25.40	25, 100	7.6, 30.5
SW-40	UV-Res. PE	1/8	0.125	3.18	0.032	0.81	0.187	4.75	25, 100, 500	7.6, 30.5, 152
SW-41	UV-Res. PE	1/4	0.250	6.35	0.045	1.14	0.375	9.53	25, 100, 500	7.6, 30.5, 152
SW-42	UV-Res. PE	3/8	0.375	9.53	0.052	1.32	0.438	11.13	25, 100	7.6, 30.5
SW-43	UV-Res. PE	1/2	0.500	12.70	0.062	1.57	0.500	12.70	25, 100	7.6, 30.5
SW-44	UV-Res. PE	3/4	0.750	19.05	0.065	1.65	0.750	19.05	25, 100, 500	7.6, 30.5, 152
SW-45	UV-Res. PE	1	1.000	25.40	0.080	2.03	1.000	25.40	25, 100, 500	7.6, 30.5, 152
SW-50	PVC	1/8	0.125	3.18	0.032	0.81	0.187	4.75	25, 100	7.6, 30.5
SW-51	PVC	1/4	0.250	6.35	0.045	1.14	0.375	9.53	25, 100	7.6, 30.5
SW-52	PVC	3/8	0.375	9.53	0.052	1.32	0.438	11.13	25, 100	7.6, 30.5
SW-53	PVC	1/2	0.500	12.70	0.062	1.57	0.500	12.70	25, 100	7.6, 30.5

*May contain multiple lengths.
**Does not meet A-A-59602 Type 3 Class 1

CA PROP 65 RoHS Compliant

FIT® Wire Management

Flexible PTFE Thin-Wall Tubing
TFT-200



ASTM D 3295-81a Type I
Class B
AMS 3655

- Flexible wire protection for harnesses and ground straps
- Resistance to heat, oil and abrasion

Operating Temperature

- -75°C to 260°C

Color

- Natural

Material

- PTFE

Physical Properties

- Tensile strength: 2,000 psi (13.7 N/mm^2)
- Elongation: 200% min.
- Specific gravity: 2.18
- Flammability rating: UL 94V-0

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.01%
- Lead free

Electrical Properties

- Dielectric strength: 1,400 V/mil (55 kV/cm)
- Volume resistivity: 10^{18} ohm-cm
- Dielectric constant: 2.1

Availability

See table

Spools may contain multiple lengths

TFT-200-7 and larger supplied as coils

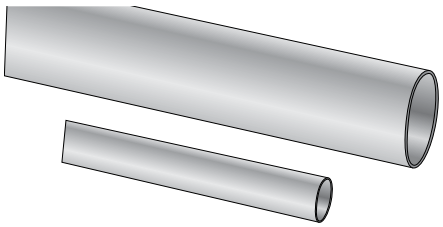
Part No.	Inside Diameter, Min.		Inside Diameter, Max.		Wall Thickness, Nom.		Standard Put-Ups	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
TFT-200-30	0.010	0.25	0.015	0.38	0.009	0.23	100, 500, 1000	30.5, 152, 305
TFT-200-28	0.013	0.33	0.018	0.46	0.009	0.23	100, 500, 1000	30.5, 152, 305
TFT-200-26	0.016	0.41	0.021	0.53	0.009	0.23	100, 500, 1000	30.5, 152, 305
TFT-200-24	0.020	0.51	0.026	0.66	0.010	0.25	100, 500, 1000	30.5, 152, 305
TFT-200-22	0.026	0.66	0.032	0.81	0.010	0.25	100, 500, 1000	30.5, 152, 305
TFT-200-20	0.032	0.81	0.04	1.02	0.012	0.30	100, 500, 1000	30.5, 152, 305
TFT-200-19	0.036	0.91	0.042	1.07	0.012	0.30	100, 1000	30.5, 305
TFT-200-18	0.040	1.02	0.046	1.17	0.012	0.30	100, 500, 1000	30.5, 152, 305
TFT-200-17	0.045	1.14	0.052	1.32	0.012	0.30	100, 500, 1000	30.5, 152, 305
TFT-200-16	0.051	1.30	0.058	1.47	0.012	0.30	100, 1000	30.5, 305
TFT-200-15	0.057	1.45	0.065	1.65	0.012	0.30	100, 1000	30.5, 305
TFT-200-14	0.064	1.63	0.072	1.83	0.012	0.30	100, 500	30.5, 152
TFT-200-13	0.072	1.83	0.081	2.06	0.012	0.30	100, 500	30.5, 152
TFT-200-12	0.081	2.06	0.091	2.31	0.012	0.30	100, 500	30.5, 152
TFT-200-11	0.091	2.31	0.101	2.57	0.012	0.30	100, 500	30.5, 152
TFT-200-10	0.102	2.59	0.112	2.84	0.012	0.30	100, 500	30.5, 152
TFT-200-9	0.114	2.90	0.124	3.15	0.012	0.30	100, 500	30.5, 152
TFT-200-8	0.129	3.28	0.139	3.53	0.015	0.38	100	30.5
TFT-200-7	0.144	3.66	0.155	3.94	0.015	0.38	100	30.5
TFT-200-6	0.162	4.11	0.174	4.42	0.015	0.38	100*	30.5*
TFT-200-5	0.182	4.62	0.195	4.95	0.015	0.38	100*	30.5*
TFT-200-4	0.204	5.18	0.218	5.54	0.015	0.38	100*	30.5*
TFT-200-3	0.229	5.82	0.244	6.20	0.015	0.38	100*	30.5*
TFT-200-2	0.258	6.55	0.273	6.93	0.015	0.38	100*	30.5*
TFT-200-1	0.289	7.34	0.305	7.75	0.015	0.38	100*	30.5*
TFT-200-0	0.325	8.26	0.342	8.69	0.015	0.38	100*	30.5*

*Supplied as coils.

CA PROP 65 RoHS Compliant

FIT® Wire Management

Flexible PTFE Standard-Wall Tubing
TFT-250



ASTM D 3295-81a Type I
Class C
MIL-I-22129

- Excellent heat and chemical resistance
- Flexible wire protection for harnesses and ground straps
- Resistance to heat, oil, and abrasion

Operating Temperature
- -75°C to 260°C

Color
- Natural

Material
- PTFE

Physical Properties
- Tensile strength: 2,000 psi (13.7 N/mm^2)
- Elongation: 200% min.
- Specific gravity: 2.18
- Flammability rating: UL 94V-0

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.01%
- Lead free

Electrical Properties
- Dielectric strength: 1,400 V/mil (551 kV/cm)
- Volume resistivity: 10^{18} ohm-cm
- Dielectric constant: 2.1

Availability
See table

Spools may contain multiple lengths

TFT-200-7 and larger supplied as coils

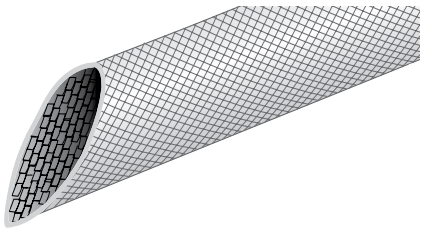
Part No.	Inside Diameter, Min.		Inside Diameter, Max.		Wall Thickness, Nom.		Standard Put-Ups	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
TFT-250-24	0.020	0.51	0.026	0.66	0.012	0.30	100, 500, 1000	30.5, 152, 305
TFT-250-22	0.025	0.64	0.032	0.81	0.012	0.30	100, 500, 1000	30.5, 152, 305
TFT-250-20	0.032	0.81	0.040	1.02	0.016	0.41	100, 500, 1000	30.5, 152, 305
TFT-250-19	0.036	0.91	0.044	1.12	0.016	0.41	100, 500, 1000	30.5, 152, 305
TFT-250-18	0.040	1.02	0.049	1.24	0.016	0.41	100, 500, 1000	30.5, 152, 305
TFT-250-17	0.045	1.14	0.054	1.37	0.016	0.41	100, 1000	30.5, 305
TFT-250-16	0.051	1.30	0.061	1.55	0.016	0.41	100, 500, 1000	30.5, 152, 305
TFT-250-15	0.057	1.45	0.067	1.70	0.016	0.41	100, 500	30.5, 152
TFT-250-14	0.064	1.63	0.074	1.88	0.016	0.41	100, 500	30.5, 152
TFT-250-13	0.072	1.83	0.082	2.08	0.016	0.41	100	30.5
TFT-250-12	0.081	2.06	0.091	2.31	0.016	0.41	100	30.5
TFT-250-11	0.091	2.31	0.101	2.57	0.016	0.41	100, 500	30.5, 152
TFT-250-10	0.102	2.59	0.112	2.84	0.016	0.41	100, 500	30.5, 152
TFT-250-9	0.114	2.90	0.124	3.15	0.020	0.51	100, 500	30.5, 152
TFT-250-8	0.129	3.28	0.141	3.58	0.020	0.51	100	30.5
TFT-250-7	0.144	3.66	0.158	4.01	0.020	0.51	100	30.5
TFT-250-6	0.162	4.11	0.178	4.52	0.020	0.51	100*	30.5*
TFT-250-5	0.182	4.62	0.196	4.98	0.020	0.51	100*	30.5*
TFT-250-4	0.204	5.18	0.224	5.69	0.020	0.51	100*	30.5*
TFT-250-3	0.229	5.82	0.249	6.32	0.020	0.51	100*	30.5*
TFT-250-2	0.258	6.55	0.278	7.06	0.020	0.51	100*	30.5*
TFT-250-1	0.289	7.34	0.311	7.90	0.020	0.51	100*	30.5*
TFT-250-0	0.325	8.26	0.342	8.69	0.020	0.51	100*	30.5*

*Supplied as coils.

CA PROP 65 RoHS Compliant

FIT® Wire Management

Acrylic-Coated Fiberglass Sleeving
AF-155



MIL-I-3190/3 Grade C1
NEMA TF-1

Operating Temperature
- -30°C to 155°C

Color
- Natural

Material
- Acrylic-coated fiberglass braid

Physical Properties
- Elongation: 150% min.
- Low-temperature (-10°C) flexing: no cracking

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Lead free

Electrical Properties
- Dielectric strength: 2,500 V/mil (984 kV/cm)
- Dielectric constant: 2.5
- Volume resistivity: 10^{10} ohm-cm

Availability
See table

Spools may contain multiple lengths

Part No.	Inside Diameter, Min.		Inside Diameter, Max.		Wall Thickness, Nom.		Standard Put-Ups	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
AF-155-24	0.020	0.51	0.027	0.69	0.006	0.15	100, 500	30.5, 152
AF-155-22	0.025	0.64	0.032	0.81	0.006	0.15	100, 500	30.5, 152
AF-155-20	0.032	0.81	0.039	0.99	0.006	0.15	100, 500	30.5, 152
AF-155-18	0.040	1.02	0.049	1.24	0.006	0.15	100, 500	30.5, 152
AF-155-16	0.051	1.30	0.061	1.55	0.006	0.15	100, 500	30.5, 152
AF-155-15	0.057	1.45	0.067	1.70	0.006	0.15	100, 500	30.5, 152
AF-155-14	0.064	1.63	0.074	1.88	0.006	0.15	100, 500	30.5, 152
AF-155-13	0.072	1.83	0.082	2.08	0.006	0.15	100, 250	30.5, 76
AF-155-12	0.081	2.06	0.091	2.31	0.006	0.15	100, 250	30.5, 76
AF-155-11	0.091	2.31	0.101	2.57	0.008	0.20	100, 250	30.5, 76
AF-155-10	0.102	2.59	0.112	2.84	0.008	0.20	100, 250	30.5, 76
AF-155-9	0.114	2.90	0.124	3.15	0.008	0.20	100, 250	30.5, 76
AF-155-8	0.129	3.28	0.141	3.58	0.008	0.20	100, 250	30.5, 76
AF-155-7	0.144	3.66	0.158	4.01	0.008	0.20	100, 250	30.5, 76
AF-155-6	0.162	4.11	0.178	4.52	0.010	0.25	100, 250	30.5, 76
AF-155-5	0.182	4.62	0.198	5.03	0.010	0.25	100, 250	30.5, 76
AF-155-4	0.204	5.18	0.224	5.69	0.010	0.25	100, 250	30.5, 76
AF-155-3	0.229	5.82	0.249	6.32	0.010	0.25	100, 250	30.5, 76
AF-155-2	0.258	6.55	0.278	7.06	0.010	0.25	100, 250	30.5, 76
AF-155-1	0.289	7.34	0.311	7.90	0.010	0.25	100, 125	30.5, 38
AF-155-0	0.325	8.26	0.347	8.81	0.016	0.41	100, 125	30.5, 38
AF-155-3/8	0.375	9.53	0.399	10.13	0.016	0.41	125, 250	38, 76
AF-155-7/16	0.438	11.13	0.462	11.73	0.016	0.41	125	38
AF-155-1/2	0.500	12.70	0.524	13.31	0.016	0.41	100	30.5
AF-155-5/8	0.625	15.88	0.655	16.64	0.016	0.41	100	30.5
AF-155-3/4	0.750	19.05	0.786	19.96	0.016	0.41	100	30.5
AF-155-7/8	0.875	22.23	0.911	23.14	0.016	0.41	100	30.5
AF-155-1IN	1.000	25.40	1.036	26.31	0.016	0.41	100	30.5

CA PROP 65 RoHS Compliant

FIT® Wire Management

PVC-Coated Fiberglass Sleeving

PIF-130



UL 1441 (600 V_{RMS})
UL VW-1
MIL-I-3190/2 Class 130
Type B Category b
NEMA TF-1 Grade A

- High temperature, abrasion, and oil resistance
- Resists fraying, bending, and knotting

Operating Temperature

- -20°C to 130°C

Color

- Black

Material

- PVC-coated fiberglass braid

Chemical Properties

- Corrosive effect: non-corrosive
- Fungus resistance: no growth
- Lead free

Electrical Properties

- Dielectric strength: 5,000 V/mil (1,968 kV/cm)
- Volume resistivity: 10^9 ohm-cm

Availability

See tables

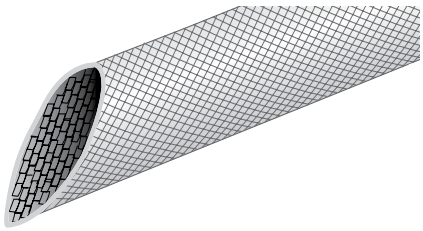
Spools may contain multiple lengths

Part No.	Inside Diameter, Min.		Inside Diameter, Max.		Wall Thickness, Nom.		Standard Put-Ups	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
PIF-130-20	0.032	0.81	0.039	0.99	0.013	0.33	100, 500, 1000	30.5, 152, 305
PIF-130-18	0.040	1.02	0.049	1.24	0.015	0.38	100, 500, 1000	30.5, 152, 305
PIF-130-16	0.051	1.30	0.061	1.55	0.015	0.38	100, 1000	30.5, 305
PIF-130-14	0.064	1.63	0.074	1.88	0.015	0.38	100	30.5
PIF-130-12	0.081	2.06	0.091	2.31	0.015	0.38	100, 500	30.5, 152
PIF-130-10	0.102	2.59	0.112	2.84	0.018	0.46	100, 500	30.5, 152
PIF-130-8	0.129	3.28	0.141	3.58	0.018	0.46	100, 500	30.5, 152
PIF-130-6	0.162	4.11	0.178	4.52	0.020	0.51	100, 250	30.5, 76
PIF-130-4	0.204	5.18	0.224	5.69	0.020	0.51	100, 250	30.5, 76
PIF-130-2	0.258	6.55	0.278	7.06	0.020	0.51	100, 250	30.5, 76
PIF-130-0	0.325	8.26	0.347	8.81	0.025	0.64	100	30.5
PIF-130-3/8	0.375	9.53	0.399	10.13	0.025	0.64	100	30.5
PIF-130-7/16	0.438	11.13	0.462	11.73	0.025	0.64	100	30.5
PIF-130-1/2A	0.500	12.70	0.524	13.31	0.025	0.64	100	30.5
PIF-130-5/8	0.625	15.88	0.655	16.64	0.025	0.64	100	30.5
PIF-130-3/4	0.750	19.05	0.786	19.96	0.025	0.64	100	30.5
PIF-130-7/8	0.875	22.23	0.911	23.14	0.025	0.64	100	30.5
PIF-130-1IN	1.000	25.40	1.036	26.31	0.025	0.64	100	30.5

UL LISTED CA PROP 65 RoHS Compliant

FIT® Wire Management

Silicone-Coated Fiberglass Sleeving
PIF-200, SF-200



UL 1441 (600 V_{RMS})
MIL-I-3190/6 Class 200 Type D Category C
NEMA TF-1 Grade A
UL VW-1

- Highly flexible routing
- Extreme abrasion resistance
- Superior electrical properties

Operating Temperature
- -70°C to 200°C

Color
- Natural

Material
- Silicone rubber-coated fiberglass braid

Physical Properties
- Tensile strength: 1,200 psi (8.2 N/mm^2)
- Elongation: 420% min

Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Lead free

Electrical Properties
- Dielectric strength: 15,000 V/mil (5,905 kV/cm)
- Volume resistivity: 6 x 10^{13} ohm-cm
- Dielectric constant: 2.8

Availability
See table

Spools may contain multiple lengths

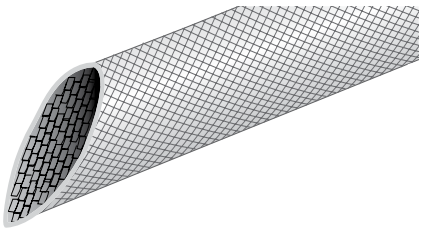
Part No.	Inside Diameter, Min.		Inside Diameter, Max.		Wall Thickness, Nom.		Standard Put-Ups	
	Inch	mm	Inch	mm	Inch	mm	Ft	m
PIF-200-24	0.020	0.51	0.027	0.69	0.011	0.28	100, 500, 1000	30.5, 152, 305
PIF-200-22	0.025	0.64	0.032	0.81	0.013	0.33	100, 500, 1000	30.5, 152, 305
PIF-200-20	0.032	0.81	0.039	0.99	0.013	0.33	100, 500, 1000	30.5, 152, 305
PIF-200-18	0.040	1.02	0.049	1.24	0.015	0.38	100, 500, 1000	30.5, 152, 305
PIF-200-17	0.045	1.14	0.054	1.37	0.015	0.38	500, 1000	152, 305
PIF-200-16	0.051	1.30	0.061	1.55	0.015	0.38	100, 500, 1000	30.5, 152, 305
PIF-200-15	0.057	1.45	0.067	1.70	0.015	0.38	100, 1000	30.5, 305
PIF-200-14	0.064	1.63	0.074	1.88	0.015	0.38	100, 500	30.5, 152
PIF-200-13	0.072	1.83	0.082	2.08	0.015	0.38	100, 500	30.5, 152
PIF-200-12	0.081	2.06	0.091	2.31	0.015	0.38	100, 500	30.5, 152
PIF-200-11	0.091	2.31	0.101	2.57	0.018	0.46	500	152
PIF-200-10	0.102	2.59	0.112	2.84	0.018	0.46	100, 500	30.5, 152
PIF-200-9	0.114	2.90	0.124	3.15	0.018	0.46	100, 500	30.5, 152
PIF-200-8	0.129	3.28	0.141	3.58	0.018	0.46	100, 500	30.5, 152
PIF-200-7	0.144	3.66	0.158	4.01	0.018	0.46	100, 500	30.5, 152
PIF-200-6	0.162	4.11	0.178	4.52	0.020	0.51	25, 100	7.6, 30.5
PIF-200-5	0.182	4.62	0.198	5.03	0.020	0.51	25, 100	7.6, 30.5
PIF-200-4	0.204	5.18	0.224	5.69	0.020	0.51	100	30.5
PIF-200-3	0.229	5.82	0.249	6.32	0.020	0.51	25, 100	7.6, 30.5
PIF-200-2	0.258	6.55	0.278	7.06	0.020	0.51	25, 100	7.6, 30.5
PIF-200-1	0.289	7.34	0.311	7.90	0.020	0.51	100	30.5
PIF-200-0	0.313	7.95	0.347	8.81	0.020	0.51	100	30.5
PIF-200-3/8	0.375	9.53	0.398	10.11	0.025	0.64	25, 100	7.6, 30.5
PIF-200-7/16	0.438	11.13	0.462	11.73	0.025	0.64	25, 100	7.6, 30.5
PIF-200-1/2A	0.500	12.70	0.524	13.31	0.025	0.64	25, 100	7.6, 30.5
PIF-200-5/8	0.625	15.88	0.655	16.64	0.025	0.64	25, 100	7.6, 30.5
SF-200-3/4	0.750	19.05	0.786	19.96	0.025	0.64	100	30.5
SF-200-7/8	0.875	22.23	0.911	23.14	0.025	0.64	100	30.5
SF-200-1IN	1.000	25.40	1.036	26.31	0.025	0.64	100	30.5

UL LISTED CA PROP 65 RoHS Compliant

FIT® Wire Management

Uncoated Fiberglass Sleeving

PIF-240



UL 1441 (500 V_{RMS})
UL VW-1
MIL-Y-1140
ASTM D 350/372 Class C

- Extreme flexibility
- Extreme heat environments

Operating Temperature

- -60°C to 648°C

Color

- Natural

Material

- Heat-annealed braided fiberglass

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Lead free

Electrical Properties

- Volume resistivity: 10^{15} ohm-cm

Availability

100 ft (30.5 m)

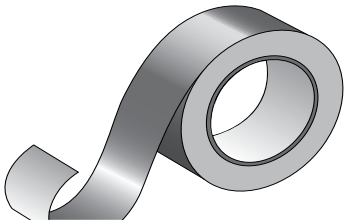
Spools may contain multiple lengths

Part No.	Inside Diameter, Min.		Inside Diameter, Max.		Wall Thickness, Nom.	
	Inch	mm	Inch	mm	Inch	mm
PIF-240-20	0.032	0.81	0.039	0.99	0.009	0.23
PIF-240-18	0.040	1.02	0.049	1.24	0.011	0.28
PIF-240-16	0.051	1.30	0.061	1.55	0.011	0.28
PIF-240-15	0.057	1.45	0.067	1.70	0.011	0.28
PIF-240-14	0.064	1.63	0.074	1.88	0.011	0.28
PIF-240-12	0.081	2.06	0.091	2.31	0.011	0.28
PIF-240-11	0.091	2.31	0.101	2.57	0.011	0.28
PIF-240-10	0.102	2.59	0.112	2.84	0.011	0.28
PIF-240-9	0.114	2.90	0.124	3.15	0.011	0.28
PIF-240-8	0.129	3.28	0.141	3.58	0.011	0.28
PIF-240-7	0.144	3.66	0.158	4.01	0.013	0.33
PIF-240-6	0.162	4.11	0.178	4.52	0.013	0.33
PIF-240-5	0.182	4.62	0.198	5.03	0.013	0.33
PIF-240-4	0.204	5.18	0.224	5.69	0.016	0.41
PIF-240-3	0.229	5.82	0.249	6.32	0.016	0.41
PIF-240-2	0.258	6.55	0.278	7.06	0.016	0.41
PIF-240-1	0.289	7.34	0.311	7.90	0.016	0.41
PIF-240-0	0.325	8.26	0.347	8.81	0.016	0.41
PIF-240-3/8	0.375	9.53	0.399	10.13	0.016	0.41
PIF-240-7/16	0.438	11.13	0.462	11.73	0.018	0.46
PIF-240-1/2A	0.500	12.70	0.524	13.31	0.018	0.46
PIF-240-5/8	0.625	15.88	0.655	16.64	0.018	0.46
PIF-240-3/4	0.750	19.05	0.783	19.89	0.018	0.46
PIF-240-7/8	0.875	22.23	0.991	25.17	0.018	0.46
PIF-240-1IN	1.000	25.40	1.026	26.06	0.018	0.46

CA PROP 65 RoHS Compliant

FIT® Wire Management

Copper EMI Shielding Tape
CST Series



UL 510
ASTM D 1000, Method 303
MIL-STD-202C

- EMI shielding
- Highly conductive pressure-sensitive adhesive seal

Operating Temperature

- -40°C to 205°C

Color

- Copper

Material

- Copper foil on pressure-sensitive adhesive

Physical Properties

- Tensile strength: 21 lb/inch (0.145 N/mm^2)
- Adhesion: 40 oz/inch
- Foil thickness: 0.0014 inch (0.04 mm)
- Adhesive thickness: 0.00015 inch (0.004 mm)
- Flammability: flame resistant per UL 510

Electrical Properties

- Electrical resistance through tape: <0.003 ohms/inch^2 (<0.0005 ohms/cm^2)
- Shielding effectiveness: 50 dB at 153 MHz

Availability

36-yard (33 m) rolls

Part No.	Width	
	Inch	mm
CST-5	0.50	12.70
CST-10	1.00	25.40
CST-15	1.50	38.10
CST-20	2.00	50.80

CA PROP 65 RoHS Compliant

FIT® Wire Management

Expandable Braided Sleeving
GRP-110, GRP-120



UL UZKX2
UL VW-1 (GRP-120)
MIL-I-631

- Light weight, flexible routing
- High abrasion and cut-through resistance

Operating Temperature

- -75°C to 125°C
- 250°C melt temperature

Color

- GRP-110: Black or natural
- GRP-120: Black with white tracer thread or white with black tracer thread

Material

- Braided polyester
- Should be cut with hot knife

Physical Properties

- Tensile strength:
  GRP-110: 85,000 psi (586 N/mm^2)
  GRP-120: 55,000 psi (379 N/mm^2)

Chemical Properties

- Corrosive effect: noncorrosive
- Fungus resistance: no growth
- GRP-120: flame retardant
- Halogen free
- Lead free

Availability

See tables

Spools may contain multiple lengths

General-Purpose Sleeving

Part No.	Inside Diameter, Min.		Expanded Inside Diameter, Max.		Wall Thickness		Construction			Standard Put-Ups	
	Inch	mm	Inch	mm	Inch	mm	Carriers	Yarns	Total	Ft	m
GRP-110-1/8	0.093	2.36	0.250	6.35	0.025	0.64	32	1	32	100, 500	30.5, 152
GRP-110-1/4	0.125	3.18	0.375	9.53	0.025	0.64	24	3	72	100, 500	30.5, 152
GRP-110-1/2	0.250	6.35	0.750	19.05	0.025	0.64	48	3	144	100, 500	30.5, 152
GRP-110-3/4	0.500	12.70	1.250	31.75	0.025	0.64	72	3	216	100, 500	30.5, 152
GRP-110-1-1/4	0.750	19.05	1.750	44.45	0.025	0.64	96	3	288	50, 250	15.2, 76
GRP-110-1-3/4	1.250	31.75	2.750	69.85	0.025	0.64	120	4	480	50, 250	15.2, 76
GRP-110-2IN	1.500	38.10	3.500	88.90	0.025	0.64	120	4	480	50, 250	15.2, 76

Flame-Retardant Sleeving

Part No.	Inside Diameter, Min.		Expanded Inside Diameter, Max.		Wall Thickness		Construction			Standard Put-Ups	
	Inch	mm	Inch	mm	Inch	mm	Carriers	Yarns	Total	Ft	m
GRP-120-1/8	0.093	2.36	0.250	6.35	0.025	0.64	32	1	32	100, 500	30.5, 152
GRP-120-1/4	0.125	3.18	0.375	9.53	0.025	0.64	24	3	72	100, 500	30.5, 152
GRP-120-1/2	0.250	6.35	0.750	19.05	0.025	0.64	48	3	144	100, 500	30.5, 152
GRP-120-3/4	0.500	12.70	1.250	31.75	0.025	0.64	72	3	216	100, 500	30.5, 152
GRP-120-1-1/4	0.750	19.05	1.750	44.45	0.025	0.64	96	3	288	50, 250	15.2, 76
GRP-120-1-3/4	1.250	31.75	2.750	69.85	0.025	0.64	120	4	480	50, 250	15.2, 76
GRP-120-2IN	1.500	38.10	3.500	88.90	0.025	0.64	120	4	480	50, 250	15.2, 76

CA PROP 65 RoHS Compliant

FIT® Wire Management

Non-Fraying, Expandable Braided Sleeving
GRP-110NF, GRP-120NF



UL UZKX2
UL VW-1 (GRP-120NF, XS-100FR)
CSA 5836 01
MIL-I-631

- Light weight, flexible routing
- Frayless: cuts without a hot knife
- Compatible with automatic cutting machines

Operating Temperature

- -75°C to 125°C

Color

- GRP-110NF, XS-100: Black or natural
- GRP-120NF: Black with white tracer thread

Material

- Braided PET

Physical Properties

- Tensile strength:
  GRP-110NF: 85,000 psi (586 N/mm^2)
  GRP-120NF: 55,000 psi (379 N/mm^2)

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth

Availability

See tables

Spools may contain multiple lengths

General-Purpose Sleeving

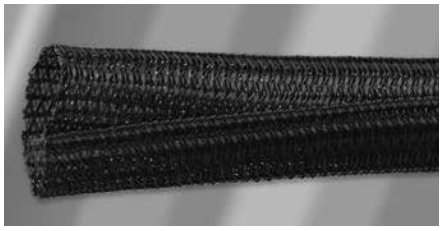
Part No.	Inside Diameter, Min.		Expanded Inside Diameter, Max.		Wall Thickness		Construction			Standard Put-Ups	
	Inch	mm	Inch	mm	Inch	mm	Carriers	Yarns	Total	Ft	m
GRP-110NF18	0.125	3.18	0.250	6.35	0.024	0.61	32	3	96	100, 500	30.5, 152
GRP-110NF14	0.156	3.96	0.438	11.13	0.024	0.61	40	3	120	100, 500	30.5, 152
GRP-110NF12	0.250	6.35	0.750	19.05	0.024	0.61	64	3	192	100, 500	30.5, 152
GRP-110NF34	0.625	15.88	1.000	25.40	0.024	0.61	80	3	240	100, 500	30.5, 152
GRP-110NF114	1.000	25.40	1.500	38.10	0.024	0.61	120	3	360	50, 250	15.2, 76
GRP-110NF112	1.250	31.75	2.000	50.80	0.024	0.61	120	4	480	50, 250	15.2, 76

Flame-Retardant Sleeving

Part No.	Inside Diameter, Min.		Expanded Inside Diameter, Max.		Wall Thickness		Construction			Standard Put-Ups	
	Inch	mm	Inch	mm	Inch	mm	Carriers	Yarns	Total	Ft	m
GRP-120NF18	0.125	3.18	0.250	6.35	0.024	0.61	32	3	96	100, 500	30.5, 152
GRP-120NF14	0.156	3.96	0.438	11.13	0.024	0.61	40	3	120	100, 500	30.5, 152
GRP-120NF12	0.250	6.35	0.750	19.05	0.024	0.61	64	3	192	100, 500	30.5, 152
GRP-120NF34	0.625	15.88	1.000	25.40	0.024	0.61	80	3	240	100, 500	30.5, 152
GRP-120NF114	1.000	25.40	1.500	38.10	0.024	0.61	120	3	360	50, 250	15.2, 76
GRP-120NF112	1.250	31.75	2.000	50.80	0.024	0.61	120	4	480	50, 250	15.2, 76

FIT® Wire Management

Flexible, Semirigid Wrappable Sleeving
GRP-130 and GRP-130NF



UL UZKX2
UL 94V-0 (GRP-130)
UL VW1 (GRP-130NF)
CSA 5836 01 FT2
FAR 25 (GRP-130NR)

- Bends tightly without distorting or opening
- 25% edge overlap to accommodate connectors and splices
- Fast, easy wrap-around installation
- More flexible than spiral wrap or split convoluted tubing

Operating Temperature

- -70°C to 125°C
- GRP-130: 230°C melt temperature
- GRP-130NF: 250°C melt temperature

Color

- GRP-130: Black or orange
- GRP-130NF: Black with white tracer

Material

- 10-mil PET braid
- Cuts with hot knife

Physical Properties

- Tensile strength:
  GRP-130: 6 psi (0.04 N/mm^2)
  GRP-130NF: 4 psi (0.02 N/mm^2)
- Specific gravity: 1.38 max

Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 0.10% max
- UV resistant
- Halogen free
- Lead free

Availability

See table
Reels may contain multiple lengths

The GRP-130 installation tool makes installing long length of GRP-130 sleeving fast and easy. Simply insert your wire bundle into the tool's shank and slide the tool along the split in the sleeving. The tool deposits the wires and allows the split to close correctly.

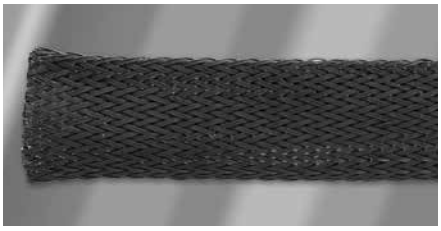


Part No.		Size		Wall Thickness (Min)		Ends per Carrier Alternating	Standard Put-Ups		Installation Tool Part No.
Black	Black w/ Tracer	Inch	mm	Inch	mm		Ft	m	
GRP-130-1/8	GRP-130NF-18	0.125	3.18	0.024	3.18	1/3	50, 200	15.2, 71	GRP-130T-1/4
GRP-130-1/4	GRP-130NF-14	0.250	6.35	0.025	6.35	1/3	50, 200	15.2, 71	GRP-130T-1/4
GRP-130-3/8	GRP-130NF-38	0.375	9.53	0.025	9.53	1/3	50, 100	15.2, 30.5	GRP-130T-1/2
GRP-130-1/2	GRP-130NF-12	0.500	12.70	0.025	12.70	1/3	50, 100	15.2, 30.5	GRP-130T-1/2
GRP-130-3/4	GRP-130NF-34	0.750	19.05	0.025	19.05	1/3	50, 100	15.2, 30.5	GRP-130T-3/4
GRP-130-1IN	GRP-130NF-1IN	1.000	25.40	0.038	25.40	1/3	50, 100	15.2, 30.5	GRP-130T-1IN
GRP-130-1-1/4	GRP-130NF-1-14	1.250	31.75	0.038	31.75	1/3	25	7.6	GRP-130T-1-1/4
GRP-130-1-1/2	GRP-130NF-1-12	1.500	38.10	0.038	38.10	1/3	25	7.6	GRP-130T-1-1/4
GRP-130-2IN	GRP-130NF-2IN	2.000	50.80	0.038	50.80	2/3	25	7.6	GRP-130T-1-1/4*

*Designed for up to 1.22" cable diameter

FIT® Wire Management

Advanced Protection Expandable Sleeving
GRP-160



An economical, easy-to-use choice for advanced abrasion and cut-through protection

- Extreme abrasion resistance without losing flexibility or durability
- Cuts cleanly with hot knife
- Resists fuels, solvents, salt water, chemicals and UV
- Expandable to 150%

Operating Temperature

- -45°C to 150°C
- 256°C melt temperature

Color

- Black

Material

- 20-mil nylon polyamide monofilament

Physical Properties

- Tensile strength: 19 psi (0.13 N/mm^2)
- Specific gravity: 1.14 max

Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 2.50% max
- UV resistant
- Halogen free
- Lead free

Availability

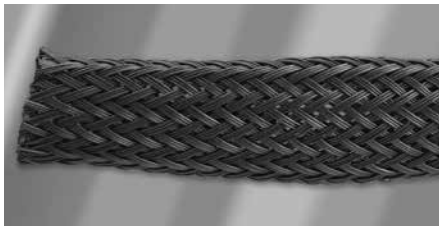
See table
Reels may contain multiple lengths

Part No.	Nominal Size		Expansion Range		Construction			Standard Put-Ups	
	Inch	mm	Inch	mm	Carriers	Yarns	Total	Ft	m
GRP-160-1/4	1/4	6.35	0.250 – 0.500	6.35 – 12.70	20	3	60	50, 250	15.2, 76
GRP-160-1/2	1/2	12.70	0.500 – 1.000	12.70 – 25.40	36	3	108	50, 250	15.2, 76
GRP-160-3/4	3/4	19.05	0.750 – 1.250	19.05 – 31.75	40	3	120	50, 250	15.2, 76
GRP-160-1IN	1	25.40	1.000 – 1.500	25.40 – 38.10	48	3	144	50, 250	15.2, 76
GRP-160-1-1/4	1-1/4	31.75	1.250 – 2.000	31.75 – 50.80	56	3	168	50, 250	15.2, 76
GRP-160-1-3/4	1-3/4	44.45	1.750 – 2.750	44.45 – 69.85	72	3	216	50, 250	15.2, 76
GRP-160-2-1/4	2-1/4	57.15	2.250 – 3.000	57.15 – 76.20	96	3	288	25, 100	7.6, 30.5

UL LISTED CSP CA PROP 65 RoHS Compliant REACH Compliant

FIT® Wire Management

Advanced Chemical Resistance Expandable Sleeving
GRP-170



The extremely lightweight sleeving that is impervious to virtually all chemicals

UL 94V-0
FAR 25

- Resists acids, bases, solvents and fuels
- Ultra-lightweight
- High abrasion resistance
- Expandable to 150%
- Flame resistant
- Cuts cleanly with hot knife

Operating Temperature

- -70°C to 200°C
- 285°C melt temperature

Color

- Black

Material

- 8-mil-diameter polyphenylene sulfide (PPS) monofilaments
- Cuts with hot knife

Physical Properties

- Specific gravity: 1.37 max
- Flame resistant

Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 0.025% max
- Low outgassing
- UV resistant
- Halogen free
- Lead free

Availability

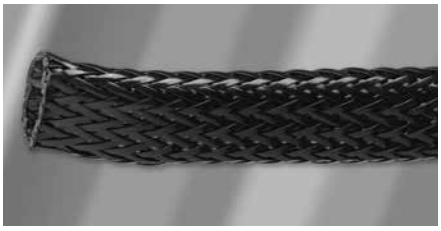
See table
Reels may contain multiple lengths

Part No.	Nominal Size		Expansion Range		Construction			Standard Put-Ups	
	Inch	mm	Inch	mm	Carriers	Yarns	Total	Ft	m
GRP-170-1/8	1/8	3.18	0.094 – 0.250	2.38 – 6.35	32	2	64	100, 500	30.5, 152
GRP-170-1/4	1/4	6.35	0.125 – 0.375	3.18 – 9.53	48	2	96	100, 500	30.5, 152
GRP-170-1/2	1/2	12.70	0.250 – 0.750	6.35 – 19.05	56	3	168	100, 500	30.5, 152
GRP-170-3/4	3/4	19.05	0.500 – 1.250	12.70 – 31.75	72	3	216	50, 250	15.2, 76
GRP-170-1-1/4	1-1/4	31.75	0.750 – 1.750	19.05 – 44.45	96	4	384	50, 250	15.2, 76
GRP-170-1-3/4	1-3/4	44.45	1.250 – 2.500	31.75 – 63.50	120	4	480	50, 250	15.2, 76

CA PROP 65 RoHS Compliant REACH Compliant

FIT® Wire Management

Maximum Performance Expandable Sleeving
GRP-180



Superior abrasion resistance, a wide operating temperature range, easy installation for industrial, solar and high-abrasion applications

- Superior abrasion resistance
- Easy to install
- Resists fuels, solvents, chemicals, salt water and UV
- Smooth inner wall to prevent internal abrasion damage

Operating Temperature

- -60°C to 150°C
- 265°C melt temperature

Color

- Black

Material

- Flat 20-mil nylon filaments
- Cuts with hot knife

Physical Properties

- Tensile strength: 19 psi (0.13 N/mm^2)
- Specific gravity: 1.12 max

Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 2.50% max
- UV resistant
- Lead free

Availability

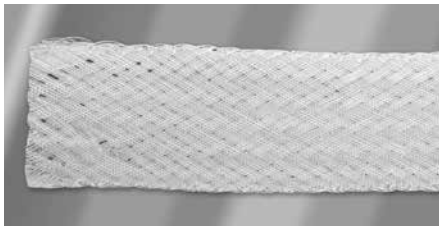
See table
Reels may contain multiple lengths

Part No.	Nominal Size		Expansion Range		Construction			Standard Put-Ups	
	Inch	mm	Inch	mm	Carriers	Yarns	Total	Ft	m
GRP-180-3/4	3/4	19.05	0.625 – 1.000	15.88 – 25.40	36	1	36	50, 250	15.2, 76
GRP-180-1IN	1	25.40	0.875 – 1.250	22.22 – 31.75	44	1	44	50, 250	15.2, 76

CA PROP 65 RoHS Compliant REACH Compliant

FIT® Wire Management

Extreme Performance Sleeving
GRP-200



FAR 25

The high-temperature choice for aerospace, military and high-tech applications where thermal stability and low outgassing are critical

- Cut and abrasion resistant
- Flame resistant
- Resists virtually all chemicals and UV
- Thermally stable
- Low outgassing
- Suitable for plenum use

Operating Temperature

- -70°C to 280°C
- 310°C melt temperature

Color

- Natural

Material

- 16-mil PTFE filaments
- Cuts with hot knife or hot wire

Physical Properties

- Specific gravity: 2.15 max

Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 0.01% max
- Vacuum outgassing: 95.0% max
- Lead free

Availability

See table
Spools may contain multiple lengths

Part No.	Nominal Size		Expansion Range		Construction			Standard Put-Ups	
	Inch	mm	Inch	mm	Carriers	Yarns	Total	Ft	m
GRP-200-3/8	3/8	9.53	0.250 – 0.750	6.35 - 19.06	40	3	120	50, 250	15.2, 76
GRP-200-1/2	1/2	12.70	0.375 - 0.875	9.53 – 22.23	48	3	144	50, 250	15.2, 76

CA PROP 65 RoHS Compliant REACH Compliant

FIT® Wire Management

Braided Sleeving
XS-200N



MIL-S-47053
CID A-A-59301

- Extremely durable
- Abrasion resistant
- Tight weave with excellent flexibility

Operating Temperature

- -45°C to 120°C
- 250°C melt temperature

Color

- Black

Material

- Braided nylon

Physical Properties

- Tensile strength: 80,000 psi (551 N/mm²)
- Specific gravity: 1.14

Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.04%, max.
- Halogen free
- Lead free

Electrical Properties

- Dielectric strength: 4 V/mil (1.57 kV/cm)

Availability

See table

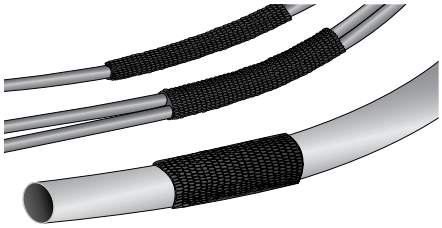
Spools may contain multiple lengths

Part No.	Nominal Size		Expansion Range		Construction			Standard Put-Ups	
	Inch	mm	Inch	mm	Carriers	Yarns	Total	Ft	m
XS-200N-1/8	0.125	3.18	0.020	0.51	28	3	84	100, 1000	30.5, 305
XS-200N-1/4	0.250	6.35	0.032	0.81	48	4	192	100, 500	30.5, 152
XS-200N-3/8	0.375	9.53	0.032	0.81	52	5	260	100, 500	30.5, 152
XS-200N-1/2	0.500	12.70	0.035	0.89	72	6	432	100	30.5
XS-200N-3/4	0.750	19.05	0.035	0.89	72	9	648	100, 250	30.5, 76
XS-200N-1IN	1.000	25.40	0.045	1.14	72	16	1152	100	30.5

CA PROP 65 RoHS Compliant

FIT® Wire Management

Expandable Braided Sleeving
ZIP-GRP



UL UZKYZ
UL 94V-0
CSA 5836 01

- Unlimited breakouts
- Abrasion and cut-through resistance
- Oil and solvent resistance

Operating Temperature

- -70°C to 125°C
- 230°C melt temperature

Color

- Black

Material

- Braided PET with hook and loop closure
- Cuts with hot knife

Physical Properties

- Tensile strength: 85,000 psi (586 N/mm^2)
- Specific gravity: 1.38

Chemical Properties

- Corrosive effect: None
- Fungus resistance: no growth
- Water absorption: 0.15% max.
- Halogen free
- Lead free
- Chemically inert
- UV resistant

Availability

25 ft (7.6 m)
50 ft (15.2 m)

Spools may contain multiple lengths

Part No.	Nominal Size		Expansion Range		Wall Thickness		Construction		
	Inch	mm	Inch	mm	Inch	mm	Carriers	Yarns	Total
ZIP-GRP-7/8	0.500	12.70	2.375	60.33	0.025	0.64	88	4	220
ZIP-GRP-1-1/2	1.500	38.10	3.500	88.90	0.025	0.64	105	4	420
ZIP-GRP-2	2.000	50.80	4.500	114.30	0.025	0.64	137	4	548

CA PROP 65 RoHS Compliant

FIT® Wire Management
Lacing Tape



A-A-52080 Type 1

- High tensile strength
- Good chemical resistance
- Excellent abrasion resistance
- Excellent knot retention

See table for specifications.

Finishes

A. Natural, No Finish

B. Wax: A microcrystalline wax with a melting point above 54°C compounded with a fungicide that does not contain copper or mercuric materials. Excellent knot retention, yet the finish does not have too great a "waxy" feel to the user. Microcrystalline wax is soft, pliable, and easy to tie.

C. Synthetic Rubber or Elastomer: A special continuous coating of fungistatic synthetic rubber containing no corrosive compounding ingredients. Knots tied with this finish will not slip. This finish will not flake or dust.

D: Glass/TFE: The glass/TFE combination has excellent tensile strength and abrasion resistance. Also resists fungus, acids and flames.

E. Synthetic Resin or Vinyl: A thermoplastic synthetic resin with a melting point above 177°C for use where a "wax-free" type is specified. It is a non-dusting and flaking dry finish with good knot-tying qualities.

A-A-52080 (MIL-T-43435B Type I)

- Flat braid made from high-tenacity continuous nylon yarn

Operating Temperature

- -55°C to 121°C

Elongation

- 40% max

Finish Weight (Impregnated % of material by weight)

- Finish A (natural)
- Finish B (wax): 15% – 32%
- Finish C (synthetic rubber/ elastomer): 7% – 17%
- Finish E (synthetic resin/vinyl): 15% – 30%

Part No.	Finish	Color	Width, Nom.		Thickness, Nom.		Break Strength, Min.		Availability*	
			Inch	mm	Inch	mm	lb	kg	Yd	m
801530W	A	Natural	0.050	1.27	0.010	0.25	15	6.8	500	457
801536B	B	Black	0.050	1.27	0.010	0.25	15	6.8	500	457
801536W	B	Natural	0.050	1.27	0.010	0.25	15	6.8	500	457
802534B	B	Black	0.060	1.52	0.012	0.30	25	11.3	500	457
802534W	B	Natural	0.060	1.52	0.012	0.30	25	11.3	500	457
LC-134	B	Black/ White	0.060	1.52	0.012	0.30	25	11.3	500	457
LC-132	C	Black/ White	0.085	2.16	0.014	0.36	50	22.7	500	457
LC-136	B	Black/ White	0.085	2.16	0.014	0.36	50	22.7	500	457
LC-140	C	Black/ White	0.085	2.16	0.014	0.36	50	22.7	500	457
LC-162	B	Black/ White	0.085	2.16	0.014	0.36	50	22.7	500	457
805032B	E	Black	0.085	2.16	0.014	0.36	50	22.7	500	457
805032W	E	Natural	0.085	2.16	0.014	0.36	50	22.7	500	457
805036B	B	Black	0.085	2.16	0.014	0.36	50	22.7	500	457
805036W	B	Natural	0.085	2.16	0.014	0.36	50	22.7	500	457
805040B	C	Black	0.085	2.16	0.014	0.36	50	22.7	500	457
805040W	C	Natural	0.085	2.16	0.014	0.36	50	22.7	500	457
LC-143	E	Black/ White	0.085	2.16	0.014	0.36	50	22.7	500	457
808036B	B	Black	0.110	2.79	0.015	0.38	80	36.3	250	228
808036W	B	Black	0.110	2.79	0.015	0.38	80	36.3	250	228

* *Bobbins/tubes may contain multiple lengths.

RoHS Compliant

FIT® Wire Management

Lacing Tape



A-A-52081

(formerly MIL-T-43435B Type II)

- Flat braid made from high-tenacity continuous polyester yarn

Operating Temperature

- -73°C to 177°C

Elongation

- 40% max

Finish Weight (Impregnated % of material by weight)

- Finish A (natural)
- Finish B (wax): 15% – 32%
- Finish C (synthetic rubber/ elastomer): 7% – 17%
- Finish E (synthetic resin/vinyl): 15% – 30%

Part No.	Finish	Color	Width, Nom.		Thickness, Nom.		Break Strength, Min.		Availability*	
			Inch	mm	Inch	mm	lb	kg	Yd	m
801566B	C	Black	0.050	1.27	0.010	0.25	15	6.8	500	457
802566B	C	Black	0.060	1.52	0.012	0.30	25	11.3	500	457
C164	B	Black/ White	0.062	1.57	0.010	0.25	25	11.3	500	457
805058B	E	Black	0.085	2.16	0.014	0.36	50	22.7	500	457
805058W	E	Natural	0.085	2.16	0.014	0.36	50	22.7	500	457
805060B	A	Black	0.085	2.16	0.014	0.36	50	22.7	500	457
805062B	B	Black	0.085	2.16	0.014	0.36	50	22.7	500	457
805062W	B	Natural	0.085	2.16	0.014	0.36	50	22.7	500	457
805066W	C	Natural	0.085	2.16	0.014	0.36	50	22.7	500	457
C162	B	Black/ White	0.085	2.16	0.014	0.36	50	22.7	500	457
808060W	A	Natural	0.110	2.79	0.015	0.38	80	36.3	500	457
808058B	E	Black	0.110	2.79	0.015	0.38	80	36.3	250	228
C160	B	Black/ White	0.200	5.08	0.016	0.41	135	61.2	250	228

**Bobbins/tubes may contain multiple lengths.

A-A-52083

(formerly MIL-T-43435B Type IV)

- Flat braid made from continuous filament glass yarn coated with PTFE before braiding

Operating Temperature

- Glass maintain strength and stability to 427°C

Elongation

- 5% max

Finish Weight (Impregnated % of material by weight)

- Finish D (glass/TFE): 10% – 20%

Part No.	Finish	Color	Width, Nom.		Thickness, Nom.		Break Strength, Min.		Availability*	
			Inch	mm	Inch	mm	lb	kg	Yd	m
807510W	D	Natural	0.085	2.16	0.016	0.41	75	34.0	500	457
810010W	D	Natural	0.110	2.79	0.016	0.41	100	45.3	250	228

**Bobbins/tubes may contain multiple lengths.

RoHS Compliant

FIT® Wire Management
Lacing Tape



A-A-52084
(formerly MIL-T-43435B Type V)

- Flat braid made from continuous filament aramid yarn

Operating Temperature
- -55°C to 260°C

Elongation
- 40% max

Finish Weight (Impregnated % of material by weight)
- Finish C (synthetic rubber/elastomer): 7% – 17%

Part No.	Finish	Color	Width, Nom.		Thickness, Nom.		Break Strength, Min.		Availability*	
			Inch	mm	Inch	mm	lb	kg	Yd	m
803554	C	Natural	0.075	1.91	0.012	0.30	35	15.9	500	457

**Bobbins/tubes may contain multiple lengths.

MIL-DTL-713 Type P
- Twisted nylon cord made from high-tenacity continuous filament yarn

Operating Temperature
- -55° C to 121°C

Elongation
- 20% min.

Finish Weight (Impregnated % of material by weight)
- Finish B (wax): 20% – 32%

Part No.	Finish	Color	Diameter, Nom.		Break Strength, Min.		Availability*	
			Inch	mm	lb	kg	Yd	m
803215B	B	Black	0.023	0.58	32	14.5	1	0.45
803215W	B	Natural	0.023	0.58	32	14.5	1	0.45
804812W	A	Natural	0.025	0.64	48	21.8	1	0.45
804814B	B	Black	0.025	0.64	48	21.8	1	0.45
804814W	B	Natural	0.025	0.64	48	21.8	1	0.45
807013B	B	Black	0.040	1.02	70	31.7	1	0.45
807013W	B	Natural	0.040	1.02	70	31.7	1	0.45

*Weight per tube; bobbins/tubes may contain multiple lengths.

Telecommunications-Grade Polyester Yarn
- Round, twisted polyester cord made from high-tenacity industrial polyester fiber

Melt Temperature (approx.)
- 121°C

Elongation
- 17% – 27%

Finish Weight (Impregnated % of material by weight)
- 9 ply: 7% – 17%
- 12 ply: 35%

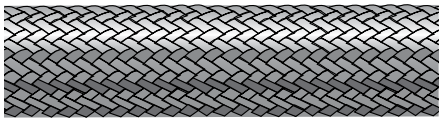
RoHS Compliant

Part No.	Finish	Color	Diameter, Nom.		Break Strength, Min.		Plies	Availability*	
			Inch	mm	lb	kg		lb	kg
812030W	Wax	Natural	0.030	0.76	32	14.5	9	0.5	0.22
815040W	Wax	Natural	0.030	0.76	32	14.5	12	0.5	0.22

*Weight per tube; bobbins/tubes may contain multiple lengths.

FIT® Wire Management

Tinned Copper Braid
Flat, Oval



AA-59569A (as indicated)

Color
- Silver

Material
- Tinned copper braid

Availability
See table

Spools may contain multiple lengths

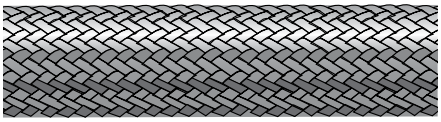
Part No.	Flat Width, Nom.		Thickness, Nom.		Braid Construction			AWG Equivalent, Approx.	CMA, Nom.	Current-Carrying Capacity	Standard Put-Ups	
	Inch	mm	Inch	mm	AWG of Individ. Ends	Carriers	No. of Individ. Ends			Amps	Ft	m
1221*	0.025	0.64	0.015	0.38	36	8	8	27	200	4	100, 500, 1000	30.5, 152, 305
1222*	0.032	0.81	0.020	0.50	36	16	16	24	400	6	100, 500, 1000	30.5, 152, 305
1223	0.047	1.19	0.020	0.50	36	24	24	22	600	7	100, 500, 1000	30.5, 152, 305
1224*	0.094	2.39	0.020	0.50	36	16	48	19	1,200	11	100, 500, 1000	30.5, 152, 305
1229	0.125	3.18	0.020	0.50	36	24	72	18	1,800	16	100, 500, 1000	30.5, 152, 305
1230	0.187	4.75	0.020	0.50	36	24	120	15	3,000	25	100, 500, 1000	30.5, 152, 305
1231	0.250	6.35	0.030	0.76	36	24	168	14	4,200	32	100, 500, 1000	30.5, 152, 305
1232*	0.375	9.53	0.030	0.76	36	48	288	12	7,200	46	100, 500, 1000	30.5, 152, 305
1233/2*	0.500	12.70	0.030	0.76	36	48	384	10	9,600	53	100, 500, 1000	30.5, 152, 305
1233	0.625	15.88	0.030	0.76	36	48	384	10	9,600	53	100, 500, 1000	30.5, 152, 305
1234	0.750	19.05	0.040	1.02	36	48	864	7	20,800	85	100, 500, 1000	30.5, 152, 305
1235*	1.000	25.40	0.045	1.14	36	48	864	7	20,800	85	100, 500, 1000	30.5, 152, 305
1239	1.375	34.93	0.050	1.27	30	48	336	5	33,700	100	100, 500, 1000	30.5, 152, 305
1240	1.500	38.10	0.060	1.52	30	48	528	3	53,064	150	100	30.5
1241*	1.750	44.45	0.080	2.03	30	48	1248	2/0	125,424	280	100	30.5
1242*	2.000	50.80	0.120	3.05	30	48	1436	3/0	154,368	310	100	30.5
1242/4*	3.000	76.20	0.200	5.08	30	48	2256	4/0	225,000	390	100	30.5

*Not A-A-59569A.

CA PROP 65 RoHS Compliant

FIT® Wire Management

Tinned Copper Braid
Flat, Oval



A-A-59569 (as indicated)

Color
- Silver

Material
- Tinned copper braid

Availability
See table

Spools may contain multiple lengths

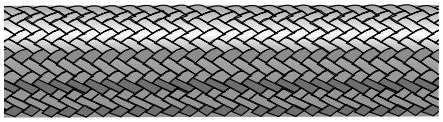
Part No.	Inside Diameter, Nom.		Braid Construction			AWG Equivalent, Approx.	CMA, Nom.	Current-Carrying Capacity	Standard Put-Ups	
	Inch	mm	AWG of Individ. Ends	Carriers	No. of Individ. Ends			Amps	Ft	m
2132	1/16	1.59	34	16	32	19	1,192	11	100, 500, 1000	30.5, 152, 305
2138	11/64	4.37	34	24	120	14	4,770	32	100, 500, 1000	30.5, 152, 305
2140*	3/16	4.76	34	24	144	13	5,724	38	100, 500	30.5, 152
2142*	1/4	6.35	34	24	168	12	6,678	41	100, 500	30.5, 152
2144*	3/8	9.53	34	24	192	11	7,632	46	100, 500,	30.5, 152
2146	1/2	12.70	34	48	336	9	13,356	62	100	30.5
2148*	5/8	15.88	34	48	384	8	14,264	64	100	30.5
2150*	11/16	17.46	34	48	480	7	19,080	81	100	30.5
2152	25/32	19.84	34	48	528	7	20,988	85	100	30.5

*Not A-A-59569A.

CA PROP 65 RoHS Compliant

FIT® Wire Management

Tinned Copper Braid
Tubular



A-A-59569

Color

- Silver

Material

- Tinned copper braid

Availability

See table

Spools may contain multiple lengths

Tinned Copper

Part No.	Inside Diameter, Nom.		Braid Construction			AWG Equivalent, Approx.	CMA, Nom.	Current-Carrying Capacity	Standard Put-Ups	
	Inch	mm	AWG of Individ. Ends	Carriers	No. of Individ. Ends			Amps	Ft	m
2160	0.031	0.79	36	24	24	22	600	7	100, 250	30.6, 76
2162	0.062	1.57	36	24	48	19	1,200	11	100, 250	30.6, 76
2163	0.078	1.98	36	24	72	18	1,800	16	100, 250	30.6, 76
2164	0.109	2.77	36	24	96	16	2,400	19	100, 250	30.6, 76
2166	0.125	3.18	36	24	120	15	3,000	25	100, 250	30.6, 76
2167	0.156	3.96	36	24	240	12	6,000	40	100, 250	30.6, 76
2168	0.171	4.34	36	24	168	14	4,200	32	100, 250	30.6, 76
2170	0.203	5.16	34	24	192	11	7,630	46	100	30.5
2171	0.250	6.35	36	24	384	10	9,600	53	100	30.5
2171/1	0.281	7.14	30	24	120	9	12,060	60	100	30.5
2172	0.375	9.53	36	48	384	10	9,600	53	100	30.5
2173	0.437	11.10	30	24	240	6	24,120	90	100	30.5
2174	0.500	12.70	36	48	528	9	13,200	62	100	30.5
2175	0.462	11.73	30	48	480	3	48,240	145	100	30.5
2175/1	0.656	16.66	30	48	768	1	77,180	190	100	30.5
2176	0.781	19.84	36	48	864	7	21,600	88	100	30.5

Extra-Large Tinned Copper

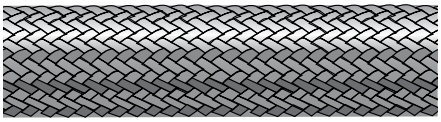
Part No.	Inside Diameter, Nom.		Braid Construction			AWG Equivalent, Approx.	CMA, Nom.	Current-Carrying Capacity	Standard Put-Ups	
	Inch	mm	AWG of Individ. Ends	Carriers	No. of Individ. Ends			Amps	Ft	m
2177	0.875	22.23	30	48	336	5	33,700	100	100	30.5
2178	1.000	25.40	30	48	384	4	38,600	120	100	30.5
2179	1.125	28.58	30	48	432	4	43,330	130	100	30.5
2180*	1.250	31.75	30	48	480	3	48,150	145	100	30.5
2181	1.375	34.93	30	48	528	3	53,000	150	100	30.5
2182	1.500	38.10	30	48	576	2	57,775	165	100	30.5

*Not A-A-59569.

CA PROP 65 RoHS Compliant

FIT® Wire Management

Tinned Copper Braid
Flat, Oval



Color

- Brass

Material

- Brass Alloy 260 per ASTM B-134

Availability

See table

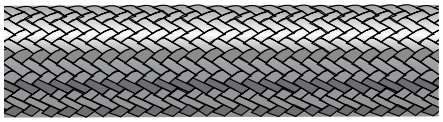
Spools may contain multiple lengths

Part No.	Inside Diameter, Nom.		Braid Construction			AWG Equivalent, Approx.	CMA, Nom.	Current-Carrying Capacity	Standard Put-Ups	
	Inch	mm	AWG of Individ. Ends	Carriers	No. of Individ. Ends			Amps	Ft	m
2155	1/8	3.18	Solid	24	5	15	3000	12.9	250	76
2156	1/4	6.35	Solid	24	16	14	4200	4.3	100	30.5
2157	3/8	9.53	Solid	48	8	10	14,200	4.0	100	30.5
2158	1/2	12.70	Solid	48	11	9	20,800	2.9	100	30.5

CA PROP 65 RoHS Compliant

FIT® Wire Management

Silver-Plated Copper Braid
Tubular



A-A-59569

Color

- Silver

Material

- Silver-plated copper braid

Availability

See table

Spools may contain multiple lengths

Silver-Plated

Part No.	Inside Diameter, Nom.		Braid Construction			AWG Equivalent, Approx.	CMA, Nom.	Current-Carrying Capacity	Standard Put-Ups	
	Inch	mm	AWG of Individ. Ends	Carriers	No. of Individ. Ends			Amps	Ft	m
2191	1/16	1.59	36	24	48	19	1,200	11	100	30.5
2193	7/64	2.78	36	24	96	16	2,400	19	100	30.5
2194	1/8	3.18	36	24	120	15	3,000	25	100	30.5
2195	5/32	3.97	36	24	240	12	6,000	40	100	30.5
2196	11/64	4.37	36	24	168	14	4,200	32	100	30.5
2197	13/64	5.16	34	24	192	11	7,640	46	100	30.5
2198	1/4	6.35	36	24	384	10	9,600	53	100	30.5

CA PROP 65 RoHS Compliant

FIT® Wire Management
Cable Glands



Alpha Wire's cable glands are a great solution for providing premium cable strain relief and protection against environmental factors, such as flames and dust, for a wide range of industries, including renewable energy, industrial automation, and electrical equipment.

Our broad offering includes a full range of easily installed standard dome glands, flexible spiral glands, and sealing hole plugs. All products are available in NPT, metric and PG thread sizes. Cable glands are dust-, dirt- and sand-resistant and watertight in accordance with IP68. Glands are packaged with an accompanying locknut and a gasket, providing you with a complete strain-relief solution. Cable glands are the latest addition to our FIT Wire Management family of products. All items are in stock and ready for immediate delivery.

Operating Temperature
- -20°C to 100°C (permanent)
- -30°C to 150°C (intermittent)

Material
- Polyamide 6 (body)
- Chloroprene rubber (O-ring/ seal)

Color
- Slate, RAL 7001
- Black

Protection Class
- IP68 (5 bar, 30 min)
- IP66

Flammability
- V2 (According to UL 94)

Thread Type
- NPT, Metric or PG

Approvals
- CSA C22.2
- UL 514
- RoHS

- Optimum strain relief for static and flex applications
- High-strength polyamide body composition
- Large clamping range
- IP68 up to 5 bar rating
- Robust rubber seals to protect against dripping water and water pressure
- Up to 150°C temperature rating
- UL, CSA, RoHS rated

CA PROP 65 RoHS Compliant

FIT® Wire Management
Cable Gland

	Part No.	Size	Clamping Range		Thread Length		Thread Ø		Color	Packing Unit
			mm	inch	mm	inch	mm	inch		
Standard Threaded Glands – Includes Locknut and Gasket High-quality strain relief and sealing for standard industrial applications Easy assembly: Simply install cable gland, insert cable, tighten cap										
NPT	PNC3/8	NPT-3/8"	5 - 10	0.197 - 0.394	15	0.591	17.14	0.675	Slate/Black	10
	PNC1/2	NPT-1/2"	6 - 12	0.236 - 0.472	15	0.591	21.34	0.840	Slate/Black	10
	PNC1/2W	NPT-1/2"	9 - 16	0.354 - 0.630	11	0.433	21.34	0.840	Slate/Black	10
	PNC3/4	NPT-3/4"	13 - 18	0.512 - 0.709	15	0.591	26.67	1.050	Slate/Black	10
	PNC1	NPT-1"	18 - 25	0.709 - 0.984	18	0.709	33.40	1.315	Slate/Black	10
Metric	PMC12	M-12x1.5	3 - 6.5	0.118 - 0.256	8	0.31	12	0.47	Slate/Black	10
	PMC16	M-16x1.5	5 - 10	0.197 - 0.394	8	0.39	16	0.63	Slate/Black	10
	PMC20	M-20x1.5	6 - 12	0.236 - 0.472	10	0.39	20	0.79	Slate/Black	10
	PMC25	M-25x1.5	11 - 17	0.433 - 0.669	8	0.31	25	0.98	Slate/Black	10
	PMC32	M-32x1.5	15 - 21	0.591 - 0.827	10	0.39	32	1.26	Slate/Black	10
	PMC40	M-40x1.5	19 - 28	0.748 - 1.102	10	0.39	40	1.57	Slate/Black	10
PG	PPC7	PG 7	3 - 6.5	0.118 - 0.256	8	0.31	12.5	0.49	Slate/Black	10
	PPC9	PG 9	4 - 8	0.157 - 0.315	8	0.31	15.2	0.60	Slate/Black	10
	PPC11	PG 11	5 - 10	0.197 - 0.394	8	0.31	18.6	0.73	Slate/Black	10
	PPC13	PG 13.5	6 - 12	0.236 - 0.472	10	0.39	20.4	0.80	Slate/Black	10
	PPC16	PG 16	10 - 14	0.396 - 0.551	10	0.39	22.5	0.89	Slate/Black	10
	PPC21	PG 21	13 - 18	0.511 - 0.708	11	0.43	37	1.46	Slate/Black	10
	PPC29	PG 29	18 - 25	0.708 - 0.984	11	0.43	37	1.46	Slate/Black	10
Flexible Cable Protection Glands – Includes Locknut and Gasket Spiral design for industrial applications needing high-quality strain relief with enhanced cable bending protection										
NPT	PNS3/8	NPT-3/8"	5 - 10	0.197 - 0.394	15	0.591	17.14	0.673	Slate/Black	10
	PNS1/2	NPT-1/2"	6 - 12	0.236 - 0.472	15	0.591	21.34	0.839	Slate/Black	10
	PNS3/4	NPT-3/4"	13 - 18	0.512 - 0.709	15	0.591	26.67	1.051	Slate/Black	10
Metric	PMS12	M-12x1.5	3 - 6.5	0.118 - 0.256	8	0.31	12.00	0.47	Slate/Black	10
	PMS16	M-16x1.5	5 - 10	0.197 - 0.394	10	0.39	20.00	0.79	Slate/Black	10
	PMS20	M-20x1.5	10 - 14	0.396 - 0.511	10	0.39	20.00	0.79	Slate/Black	10
	PMS25	M-25x1.5	13 - 18	0.511 - 0.708	10	0.39	25.00	0.98	Slate/Black	10
PG	PPS7	PG 7	3 - 6.5	0.118 - 0.256	8	0.31	12.5	0.49	Slate/Black	10
	PPS9	PG 9	4 - 8	0.157 - 0.315	8	0.31	15.2	0.60	Slate/Black	10
	PPS11	PG 11	5 - 10	0.197 - 0.394	8	0.31	18.6	0.73	Slate/Black	10
	PPS13	PG 13.5	6 - 12	0.236 - 0.472	10	0.39	20.4	0.80	Slate/Black	10
	PPS16	PG 16	10 - 14	0.396 - 0.551	10	0.39	22.5	0.89	Slate/Black	10
Hole Plugs – For Sealing of Housing When No Cable Gland Is Used For standard industrial applications; can be fastened with screwdriver										
Metric	HPM12	M-12x1.5	-	-	6	0.24	12.00	0.47	Slate/Black	10
	HPM16	M-16x1.5	-	-	7	0.28	16.00	0.63	Slate/Black	10
	HPM20	M-20x1.5	-	-	7	0.28	20.00	0.79	Slate/Black	10
	HPM25	M-25x1.5	-	-	10	0.39	25.00	0.98	Slate/Black	10
	HPM32	M-32x1.5	-	-	8	0.31	32.00	1.26	Slate/Black	10
PG	HPP7	PG 7	-	-	6	0.24	12.5	0.49	Slate/Black	10
	HPP9	PG 9	-	-	6	0.24	15.2	0.60	Slate/Black	10
	HPP11	PG 11	-	-	6	0.24	18.6	0.73	Slate/Black	10
	HPP13	PG 13.5	-	-	6	0.24	20.4	0.80	Slate/Black	10
	HPP16	PG 16	-	-	6	0.24	22.5	0.89	Slate/Black	10
	HPP21	PG 21	-	-	8	0.31	28.3	1.11	Slate/Black	10
	HPP29	PG 29	-	-	8	0.31	37.00	1.46	Slate/Black	10

CA PROP 65 RoHS Compliant

FIT® Wire Management

Metal Cable Gland

Operating Temperature

- -20°C to +100°C (Permanent)
- -40°C to +150°C (Intermittent)

Material

- Brass, nickel plated (Body & cap)
- Chloroprene rubber (Seal)
- NBR (O-ring)

Protection Class

- IP68 (5 bar, 30 min)
- IP66

Flammability

- V2 (According to UL94)

Thread Type

- NPT, Metric or PG

Approvals

- CSA C22.2
- UL 514
- RoHS

	Part No.	Size	Clamping Range		Thread Length		Thread Ø		Packing Unit
			mm	inch	mm	inch	mm	inch	
Metal Glands									
NPT	MNPT3/8	NPT-3/8"	4 - 8	0.157 - 0.315	11.5	0.453	17.14	0.675	10
	MNPT1/2	NPT-1/2"	6 - 12	0.236 - 0.472	13	0.512	21.34	0.840	10
	MNPT3/4	NPT-3/4"	13 - 18	0.512 - 0.709	13	0.512	26.67	1.050	10
	MNPT1	NPT-1/2"	18 - 25	0.709 - 0.984	13	0.512	33.40	1.315	10
Metric	MES12	M-12x1.5	3 - 6.5	0.118 - 0.256	6	0.236	12	0.472	10
	MES16	M-16x1.5	5 - 10	0.197 - 0.394	7	0.276	16	0.63	10
	MES20	M-20x1.5	6 - 12	0.236 - 0.472	8	0.315	20	0.787	10
	MES25	M-25x1.5	11 - 17	0.433 - 0.669	8	0.315	25	0.984	10
	MES32	M-32x1.5	15 - 21	0.591 - 0.827	8	0.315	32	1.26	10
PG	MPG7	PG 7	3 - 6.5	0.118 - 0.256	6	0.236	12.5	0.492	10
	MPG9	PG 9	4 - 8	0.157 - 0.315	6	0.236	15.2	0.598	10
	MPG11	PG 11	5 - 10	0.197 - 0.394	6	0.236	18.6	0.732	10
	MPG13	PG 13	6 - 12	0.236 - 0.472	6.5	0.256	20.4	0.803	10
	MPG16	PG 16	10 - 14	0.394 - 0.551	6.5	0.256	22.5	0.886	10
	MPG21	PG 21	13 - 18	0.512 - 0.709	7.2	0.283	28.3	1.114	10
	MPG29	PG 29	18 - 25	0.709 - 0.984	8	0.315	37	1.46	10

CA PROP 65 RoHS Compliant

Technical Information



AWG/Metric Conductor Table

		Approx OD		Area		Weight		DC Resistance (Bare)*		DC Resistance (Tinned)*	
AWG	Stranding	Inch	mm	CMA	mm²	Lb/ 1000 ft	kg/km	Ohms/ 1000 ft	Ohms/ km	Ohms/ 1000 ft	Ohms/ km
38	Solid	0.0040	0.102	16.0	0.008	0.048	0.071	648	2126	696	2283
38	7/46	0.0047	0.119	17.2	0.009	0.053	0.079	614	2014	659	2162
36	Solid	0.0050	0.127	25.0	0.013	0.076	0.113	415	1362	445	1460
36	7/44	0.0060	0.152	28.0	0.014	0.086	0.128	378	1240	406	1332
34	Solid	0.0063	0.160	39.7	0.020	0.120	0.179	261	856	280	919
34	7/42	0.0075	0.191	43.8	0.022	0.135	0.201	242	794	260	853
32	Solid	0.0080	0.203	64.0	0.032	0.194	0.289	162	531	174	571
32	7/40	0.0093	0.236	67.3	0.034	0.208	0.310	157	515	169	554
32	19/44	0.0100	0.254	76.0	0.039	0.235	0.350	139	456	149	489
30	Solid	0.0100	0.254	100	0.051	0.303	0.451	104	341	111	364
30	7/38	0.0120	0.305	112	0.057	0.346	0.515	94.5	310	101	331
30	19/42	0.0125	0.318	119	0.060	0.367	0.546	89.1	292	95.6	314
28	Solid	0.0126	0.320	159	0.081	0.481	0.716	65.2	214	69.3	227
28	7/36	0.0150	0.381	175	0.089	0.540	0.804	60.4	198	64.9	213
28	19/40	0.0155	0.394	183	0.093	0.564	0.839	57.9	190	62.2	204
27	7/35	0.017	0.432	220	0.111	0.679	1.01	48.1	158	51.7	170
26	Solid	0.0159	0.404	253	0.128	0.766	1.14	41.0	135	43.5	143
26	7/34	0.019	0.483	278	0.141	0.858	1.28	38.1	125	40.9	134
26	10/36	0.019	0.483	250	0.127	0.772	1.15	42.3	139	45.4	149
26	19/38	0.020	0.508	304	0.154	0.939	1.40	34.8	114	37.4	123
25	7/.0067	0.020	0.508	314	0.159	0.970	1.44	33.7	111	36.1	118
25	7/33	0.021	0.533	353	0.179	1.09	1.62	30.0	98.4	32.2	106
25	40/40	0.023	0.584	384	0.195	1.19	1.77	27.5	90.2	29.5	96.8
24	Solid	0.0201	0.511	404	0.205	1.22	1.82	25.7	84.3	26.7	87.6
24	7/32	0.024	0.610	448	0.227	1.38	2.05	23.6	77.4	25.3	83.0
24	10/34	0.023	0.584	397	0.201	1.23	1.83	26.6	87.3	28.6	93.8
24	19/36	0.025	0.635	475	0.241	1.47	2.19	22.3	73.2	23.9	78.4
22	Solid	0.0253	0.643	640	0.324	1.94	2.89	16.2	53.1	16.9	55.4
22	7/.0096	0.029	0.737	645	0.327	1.99	2.96	16.4	53.8	17.6	57.7
22	7/30	0.030	0.762	700	0.355	2.16	3.21	15.1	49.5	16.2	53.1
22	16/34	0.030	0.762	635	0.322	1.96	2.92	16.7	54.8	17.9	58.7
22	19/34	0.0315	0.800	754	0.382	2.33	3.47	14.0	45.9	15.1	49.5
20	Solid	0.032	0.813	1024	0.519	3.10	4.61	10.1	33.1	10.5	34.4
20	7/.0121	0.036	0.914	1022	0.518	3.16	4.70	10.4	34.1	11.0	36.1
20	7/28	0.038	0.965	1113	0.564	3.44	5.12	9.5	31.2	10.1	33.1
20	10/30	0.037	0.940	1000	0.507	3.09	4.60	10.6	34.8	11.4	37.4
20	19/32	0.040	1.016	1216	0.616	3.75	5.58	8.7	28.5	9.3	30.6
20	26/34	0.038	0.965	1032	0.523	3.19	4.75	10.2	33.5	11.0	36.1
20	41/36	0.037	0.940	1025	0.519	3.16	4.70	10.3	33.8	11.1	36.4
20	63(7x9)/38	0.040	1.016	1008	0.511	3.17	4.72	10.7	35.1	11.5	37.7

*Nominal resistance at 20˚C.

AWG/Metric Conductor Table

		Approx OD		Area		Weight		DC Resistance (Bare)*		DC Resistance (Tinned)*	
AWG	Stranding	Inch	mm	CMA	mm²	Lb/ 1000 ft	kg/km	Ohms/ 1000 ft	Ohms/ km	Ohms/ 1000 ft	Ohms/ km
18	Solid	0.040	1.016	1,624	0.823	4.92	7.32	6.39	21.0	6.64	21.8
18	7/.0152	0.046	1.168	1,617	0.819	4.99	7.43	6.54	21.5	6.95	22.8
18	7/26	0.048	1.219	1,771	0.897	5.47	8.14	5.97	19.6	6.34	20.8
18	16/30	0.047	1.194	1,600	0.811	4.94	7.35	6.61	21.7	7.10	23.3
18	19/30	0.050	1.270	1,900	0.963	5.87	8.74	5.57	18.3	5.98	19.6
18	41/34	0.047	1.194	1,628	0.825	5.03	7.49	6.50	21.3	6.98	22.9
18	65/36	0.047	1.194	1,625	0.823	5.02	7.47	6.51	21.4	6.99	22.9
18	105(7x15)/38	0.052	1.321	1,680	0.851	5.29	7.87	6.42	21.1	6.89	22.6
16	Solid	0.051	1.295	2,581	1.31	7.81	11.62	4.02	13.2	4.18	13.7
16	7/.0192	0.058	1.473	2,583	1.31	7.98	11.88	4.10	13.5	4.35	14.3
16	7/24	0.060	1.524	2,828	1.43	8.73	12.99	3.74	12.3	3.89	12.8
16	19/.0117	0.059	1.499	2,603	1.32	8.04	11.96	4.06	13.3	4.32	14.2
16	19/29	0.057	1.448	2,432	1.23	7.51	11.18	4.35	14.3	4.62	15.2
16	26/30	0.060	1.524	2,600	1.32	8.03	11.95	4.07	13.4	4.37	14.3
16	65/34	0.059	1.499	2,580	1.31	7.97	11.86	4.10	13.5	4.40	14.4
16	168(7x24)/38	0.067	1.702	2,688	1.36	8.46	12.59	4.01	13.2	4.31	14.1
14	Solid	0.064	1.626	4,109	2.08	12.4	18.45	2.52	8.27	2.62	8.60
14	7/22	0.076	1.930	4,480	2.27	13.8	20.53	2.36	7.74	2.46	8.07
14	7/.0242	0.073	1.854	4,102	2.08	12.7	18.90	2.58	8.46	2.68	8.79
14	19/.0147	0.074	1.880	4,104	2.08	12.7	18.90	2.58	8.46	2.74	8.99
14	19/27	0.071	1.803	3,838	1.94	11.8	17.56	2.76	9.06	2.93	9.61
14	41/30	0.074	1.880	4,100	2.08	12.7	18.90	2.58	8.46	2.77	9.09
14	105/34	0.075	1.905	4,168	2.11	12.9	19.20	2.54	8.33	2.72	8.92
14	266(7x38)/38	0.080	2.032	4,256	2.16	13.4	19.94	2.53	8.30	2.72	8.92
12	Solid	0.081	2.057	6,529	3.31	19.8	29.47	1.59	5.22	1.65	5.41
12	7/20	0.096	2.438	7,168	3.63	22.1	32.88	1.48	4.85	1.53	5.02
12	7/.0305	0.092	2.337	6,510	3.30	20.1	29.91	1.62	5.31	1.69	5.54
12	19/.0185	0.093	2.362	6,498	3.29	20.1	29.91	1.63	5.35	1.73	5.68
12	19/25	0.090	2.286	6,080	3.08	18.8	27.98	1.74	5.71	1.85	6.07
12	65/30	0.093	2.362	6,500	3.29	20.1	29.91	1.63	5.35	1.75	5.74
12	168(7x24)/34	0.106	2.692	6,670	3.38	21.0	31.25	1.62	5.31	1.74	5.71
12	413(7x59)/38	0.106	2.692	6,608	3.35	20.8	30.95	1.63	5.35	1.75	5.74
10	Solid	0.102	2.591	10,384	5.26	31.4	46.73	0.999	3.28	1.04	3.41
10	7/.0385	0.116	2.946	10,374	5.26	32.0	47.62	1.02	3.35	1.06	3.48
10	19/.0234	0.117	2.972	10,412	5.28	32.1	47.77	1.02	3.35	1.06	3.48
10	19/23	0.113	2.870	9,709	4.92	30.0	44.64	1.09	3.58	1.13	3.71
10	37/.0167	0.117	2.972	10,323	5.23	31.9	47.47	1.02	3.35	1.09	3.58
10	37/26	0.111	2.819	9,361	4.74	28.9	43.01	1.13	3.71	1.20	3.94
10	105/30	0.118	2.997	10,500	5.32	32.4	48.22	1.01	3.31	1.08	3.54
10	658(7x94)/38	0.132	3.353	10,528	5.33	33.1	49.26	1.02	3.35	1.10	3.61

*Nominal resistance at 20˚C.

AWG/Metric Conductor Table

		Approx OD		Area		Weight		DC Resistance (Bare)*		DC Resistance (Tinned)*	
AWG	Stranding	Inch	mm	CMA	mm²	Lb/ 1000 ft	kg/km	Ohms/ 1000 ft	Ohms/ km	Ohms/ 1000 ft	Ohms/ km
8	Solid	0.129	3.277	16,512	8.37	50.0	74.41	0.628	2.06	0.646	2.12
8	19/.0295	0.148	3.759	16,530	8.38	51.0	75.90	0.640	2.10	0.665	2.18
8	19/21	0.143	3.632	15,428	7.82	47.6	70.84	0.686	2.25	0.713	2.34
8	49(7x7)/.0184	0.166	4.216	16,611	8.42	52.3	77.83	0.649	2.13	0.690	2.26
8	65/26	0.148	3.759	16,445	8.33	50.8	75.60	0.643	2.11	0.683	2.24
8	133(7x19)/29	0.169	4.293	17,024	8.63	53.6	79.77	0.634	2.08	0.673	2.21
8	168(7x24)/30	0.167	4.242	16,800	8.51	52.9	78.72	0.642	2.11	0.689	2.26
8	266(7x38)/32	0.166	4.216	17,024	8.63	53.6	79.77	0.634	2.08	0.680	2.23
6	19/.0372	0.186	4.724	26,296	13.3	81.2	120.84	0.402	1.32	0.418	1.37
6	19/19	0.180	4.572	24,491	12.4	75.6	112.51	0.432	1.42	0.449	1.47
6	37/23	0.158	4.013	18,907	9.58	58.4	86.91	0.559	1.83	0.582	1.91
6	49(7x7)/.0231	0.208	5.283	26,166	13.3	81.6	121.43	0.408	1.34	0.425	1.39
6	105/26	0.188	4.775	26,565	13.5	82.0	122.03	0.398	1.31	0.423	1.39
6	133(7x19)/27	0.213	5.410	26,866	13.6	84.6	125.90	0.401	1.32	0.426	1.40
6	266(7x38)/30	0.210	5.334	26,600	13.5	83.7	124.56	0.405	1.33	0.435	1.43
6	413(7x59)/32	0.212	5.385	26,432	13.4	83.2	123.82	0.408	1.34	0.438	1.44
4	19/.0469	0.235	5.969	41,800	21.2	129	191.97	0.253	0.830	0.263	0.863
4	49(7x7)/.0292	0.263	6.680	41,797	21.2	130	193.46	0.256	0.840	0.266	0.873
4	133(7x19)/25	0.269	6.833	42,560	21.6	134	199.41	0.253	0.830	0.269	0.883
4	168(7x24)/26	0.266	6.756	42,504	21.5	134	199.41	0.254	0.833	0.270	0.886
4	413(7x59)//30	0.265	6.731	41,300	20.9	130	193.46	0.261	0.856	0.280	0.919
4	420(7x60)/30	0.268	6.807	42,000	21.3	132	196.44	0.257	0.843	0.276	0.906
4	665(19x35)/32	0.270	6.858	42,560	21.6	134	199.41	0.253	0.830	0.272	0.892
2	19/.0591	0.296	7.518	66,367	33.6	205	305.07	0.159	0.522	0.166	0.545
2	133(7x19)/23	0.339	8.611	67,963	34.4	214	318.47	0.159	0.522	0.165	0.541
2	259(7x37)/26	0.334	8.484	65,527	33.2	207	308.05	0.165	0.541	0.176	0.577
2	266(7x38)/26	0.334	8.484	67,298	34.1	212	315.49	0.160	0.525	0.170	0.558
2	665 (7x95)/30	0.336	8.534	66,500	33.7	209	311.03	0.162	0.531	0.174	0.571
2	665(19x35)/30	0.338	8.585	66,500	33.7	209	311.03	0.162	0.531	0.174	0.571
2	1045(19x55)/32	0.342	8.687	66,880	33.9	213	316.98	0.163	0.535	0.175	0.574
1	19/.0664	0.332	8.433	83,771	42.4	259	385.43	0.126	0.413	0.131	0.430
1	133(7x19)/22	0.380	9.652	85,120	43.1	268	398.83	0.127	0.417	0.132	0.433
1	259(7x37)/25	0.376	9.550	82,880	42.0	262	389.90	0.131	0.430	0.139	0.456
1	836(19x44)/30	0.383	9.728	83,600	42.4	266	395.85	0.130	0.427	0.140	0.459
1/0	19/.0745	0.373	9.474	105,450	53.4	326	485.14	0.100	0.328	0.104	0.341
1/0	133(7x19)/21	0.428	10.871	107,996	54.7	340	505.98	0.100	0.328	0.104	0.341
1/0	259(7x37)/24	0.422	10.719	104,636	53.0	331	492.58	0.104	0.341	0.108	0.354
1/0	1045(19x55)/30	0.428	10.871	104,500	53.0	332	494.07	0.104	0.341	0.112	0.367
1/0	1064(19x56)/30	0.430	10.922	106,400	53.9	338	503.00	0.102	0.335	0.110	0.361
2/0	19/.0837	0.419	10.643	133,114	67.4	411	611.64	0.079	0.259	0.083	0.272
2/0	133(7x19)/20	0.480	12.192	136,192	69.0	429	638.42	0.079	0.259	0.082	0.269
2/0	259(7x37)23	0.474	12.040	132,349	67.1	419	623.54	0.082	0.269	0.085	0.279
2/0	1323(7x7x27)/30	0.539	13.691	132,300	67.0	424	630.98	0.083	0.272	0.089	0.292
2/0	1330(19x70)/30	0.483	12.268	133,000	67.4	427	635.45	0.083	0.272	0.089	0.292

*Nominal resistance at 20˚C.

AWG/Metric Conductor Table

		Approx OD		Area		Weight		DC Resistance (Bare)*		DC Resistance (Tinned)*	
AWG	Stranding	Inch	mm	CMA	mm²	Lb/ 1000 ft	kg/km	Ohms/ 1000 ft	Ohms/ km	Ohms/ 1000 ft	Ohms/ km
3/0	19/.0940	0.470	11.938	167,884	85.1	518	770.87	0.063	0.207	0.066	0.217
3/0	133(7x19)/19	0.538	13.665	171,437	86.9	540	803.61	0.063	0.207	0.065	0.213
3/0	259(7x37)/22	0.530	13.462	165,760	84.0	524	779.80	0.065	0.213	0.068	0.223
3/0	1666(7x7x34)30	0.604	15.342	166,600	84.4	535	796.17	0.066	0.217	0.071	0.233
3/0	1672(19x88)/30	0.540	13.716	167,200	84.7	536	797.66	0.066	0.217	0.071	0.233
4/0	19/.1055	0.528	13.411	211,470	107	653	971.77	0.050	0.164	0.051	0.167
4/0	133(7x19)/18	0.604	15.342	215,992	109	680	1011.95	0.050	0.164	0.052	0.171
4/0	259(7x37)/21	0.598	15.189	210,308	107	665	989.63	0.052	0.171	0.054	0.177
4/0	2107(7x7x43)/30	0.681	17.297	210,700	107	676	1006.00	0.052	0.171	0.056	0.184
4/0	2109 (37x57)/30	0.590	14.986	210,900	107	677	1007.49	0.052	0.171	0.056	0.184

*Nominal resistance at 20˚C.

AWG/Metric Comparison

Stranded Conductors

Cond. Diameter (mm²)	Stranding x Strand Dia. (mm)	Corresponding AWG
0.014	7 x 0.05	–
0.035	7 x 0.08	32
0.047	24 x 0.05	–
0.049	1 x 0.25	30
0.055	7 x 0.10	30
0.079	10 x 0.10	–
0.079	7 x 0.12	–
0.080	1 x 0.32	28
0.093	7 x 0.13	28
0.094	12 x 0.10	–
0.094	48 x 0.05	–
0.096	19 x 0.08	28
0.113	10 x 0.12	–
0.118	60 x 0.05	–
0.118	15 x 0.10	–
0.124	7 x 0.15	26
0.126	1 x 0.40	26
0.149	19 x 0.10	26
0.177	10 x 0.15	24
0.188	24 x 0.10	–
0.196	1 x 0.50	24
0.212	27 x 0.10	–
0.212	12 x 0.15	–
0.220	7 x 0.20	24
0.251	32 x 0.10	–
0.252	19 x 0.13	24
0.283	1 x 0.60	–
0.291	37 x 0.10	–
0.314	40 x 0.10	–
0.322	1 x 0.64	22
0.336	19 x 0.15	22
0.344	7 x 0.25	22
0.377	12 x 0.20	–
0.377	48 x 0.10	–
0.389	22 x 0.15	–
0.442	1 x 0.75	–
0.459	26 x 0.15	20
0.491	10 x 0.25	20
0.495	7 x 0.30	–
0.503	16 x 0.20	–
0.515	1 x 0.81	20
0.563	7 x 0.32	20
0.597	19 x 0.20	20
0.636	36 x 0.15	–
0.754	24 x 0.20	–
0.785	16 x 0.25	18
0.817	1 x 1.02	18
0.848	12 x 0.30	–
0.880	7 x 0.40	18
0.933	19 x 0.25	18
0.990	56 x 0.15	–
1.005	32 x 0.20	–
1.276	26 x 0.25	16
1.327	1 x 1.30	16
1.343	19 x 0.30	16
1.374	7 x 0.50	16
1.473	30 x 0.25	–
1.508	12 x 0.40	–
1.828	19 x 0.35	14
1.885	60 x 0.20	–
1.909	27 x 0.030	–
1.979	7 x 0.60	–
2.011	16 x 0.40	–
2.013	41 x 0.25	14
2.087	1 x 1.63	14
2.454	50 x 0.25	14
3.022	19 x 0.45	12
3.142	16 x 0.50	–
3.181	45 x 0.30	–
3.191	65 x 0.25	12
3.393	48 x 0.30	–
3.958	56 x 0.30	–
4.650	37 x 0.40	–
4.714	7 x 7 x 0.35	–
5.154	105 x 0.25	–
5.160	73 x 0.30	10
5.300	75 x 0.30	10

Conductor Color Coding

Multipair Cables

Chart A

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black +Red	14	Green + Blue	27	Brown + Yellow	40	Slate + Blue
2	Black + White	15	Green + White	28	Violet + Red	41	Slate + Brown
3	Black + Green	16	Green + Brown	29	Violet + White	42	Slate + Yellow
4	Black + Blue	17	Green + Orange	30	Violet + Green	43	Slate + Orange
5	Black + Brown	18	Green + Yellow	31	Violet + Blue	44	Slate + Black
6	Black + Yellow	19	White + Blue	32	Violet + Brown	45	White/Black + Red
7	Black + Orange	20	White + Brown	33	Violet + Yellow	46	White/Black + Green
8	Red + Green	21	White + Orange	34	Violet + Orange	47	White/Black + Blue
9	Red + White	22	White + Yellow	35	Violet + Slate	48	White/Black + Brown
10	Red + Blue	23	Blue + Brown	36	Violet + Black	49	White/Black + Yellow
11	Red + Yellow	24	Blue + Orange	37	Slate + Red	50	White/Black + Orange
12	Red + Brown	25	Blue + Yellow	38	Slate + White	51	White/Black + Violet
13	Red + Orange	26	Brown + Orange	39	Slate + Green		

Chart A1

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black +Red	14	Green + White	27	Brown + Orange	40	Slate + Blue
2	Black + White	15	Green + Blue	28	Violet + Red	41	Slate + Brown
3	Black + Green	16	Green + Yellow	29	Violet + White	42	Slate + Yellow
4	Black + Blue	17	Green + Brown	30	Violet + Green	43	Slate + Orange
5	Black + Yellow	18	Green + Orange	31	Violet + Blue	44	Slate + Black
6	Black + Brown	19	White + Blue	32	Violet + Brown	45	White/Black + Red
7	Black + Orange	20	White + Yellow	33	Violet + Yellow	46	White/Black + Green
8	Red + White	21	White + Brown	34	Violet + Orange	47	White/Black + Blue
9	Red + Green	22	White + Orange	35	Violet + Slate	48	White/Black + Brown
10	Red + Blue	23	Blue + Yellow	36	Violet + Black	49	White/Black + Yellow
11	Red + Yellow	24	Blue + Brown	37	Slate + Red	50	White/Black + Orange
12	Red + Brown	25	Blue + Orange	38	Slate + White	51	White/Black + Violet
13	Red + Orange	26	Brown + Yellow	39	Slate + Green		

Chart B

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	White +Black	35	Orange +Slate	69	White/Red +Green
2	White +Brown	36	Yellow +Green	70	White/Red +Blue
3	White +Red	37	Yellow +Blue	71	White/Red +Violet
4	White +Orange	38	Yellow +Violet	72	White/Red +Slate
5	White +Yellow	39	Yellow +Slate	73	White/Orange +Black
6	White +Green	40	Green +Blue	74	White/Orange +Brown
7	White +Blue	41	Green +Violet	75	White/Orange +Red
8	White +Violet	42	Green +Slate	76	White/Orange +Orange
9	White +Slate	43	Blue +Violet	77	White/Orange +Yellow
10	Black +Brown	44	Blue +Slate	78	White/Orange +Green
11	Black +Red	45	Violet +Slate	79	White/Orange +Blue
12	Black +Orange	46	White/Black +Black	80	White/Orange +Violet
13	Black +Yellow	47	White/Black +Brown	81	White/Orange +Slate
14	Black +Green	48	White/Black +Red	82	White/Yellow +Black
15	Black +Blue	49	White/Black +Orange	83	White/Yellow +Brown
16	Black +Violet	50	White/Black +Yellow	84	White/Yellow +Red
17	Black +Slate	51	White/Black +Green	85	White/Yellow +Orange
18	Brown +Red	52	White/Black +Blue	86	White/Yellow +Yellow
19	Brown +Orange	53	White/Black +Violet	87	White/Yellow +Green
20	Brown +Yellow	54	White/Black +Slate	88	White/Yellow +Blue
21	Brown +Green	55	White/Brown +Black	89	White/Yellow +Violet
22	Brown +Blue	56	White/Brown +Brown	90	White/Yellow +Slate
23	Brown +Violet	57	White/Brown +Red	91	White/Green +Black
24	Brown +Slate	58	White/Brown +Orange	92	White/Green +Brown
25	Red +Orange	59	White/Brown +Yellow	93	White/Green +Red
26	Red +Yellow	60	White/Brown +Green	94	White/Green +Orange
27	Red +Green	61	White/Brown +Blue	95	White/Green +Yellow
28	Red +Blue	62	White/Brown +Violet	96	White/Green +Green
29	Red +Violet	63	White/Brown +Slate	97	White/Green +Blue
30	Red +Slate	64	White/Red +Black	98	White/Green +Violet
31	Orange +Yellow	65	White/Red +Brown	99	White/Green +Slate
32	Orange +Green	66	White/Red +Red	100	White/Blue +Black
33	Orange +Blue	67	White/Red +Orange	101	White/Blue +Brown
34	Orange +Violet	68	White/Red +Yellow	102	White/Blue +Red

Conductor Color Coding

Multipair Cables

Chart BR

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black #1 +Red #1	14	Black #14 + Red #14	27	Black #27 + Red #27	40	Black #40 + Red #40
2	Black #2 + Red #2	15	Black #15 + Red #15	28	Black #28 + Red #28	41	Black #41 + Red #41
3	Black #3 + Red #3	16	Black #16 + Red #16	29	Black #29 + Red #29	42	Black #42 + Red #42
4	Black #4 + Red #4	17	Black #17 + Red #17	30	Black #30 + Red #30	43	Black #43 + Red #43
5	Black #5 + Red #5	18	Black #18 + Red #18	31	Black #31 + Red #31	44	Black #44 + Red #44
6	Black #6 + Red #6	19	Black #19 + Red #19	32	Black #32 + Red #32	45	Black #45 + Red #45
7	Black #7 + Red #7	20	Black #20 + Red #20	33	Black #33 + Red #33	46	Black #46 + Red #46
8	Black #8 + Red #8	21	Black #21 + Red #21	34	Black #34 + Red #34	47	Black #47 + Red #47
9	Black #9 + Red #9	22	Black #22 + Red #22	35	Black #35 + Red #35	48	Black #48 + Red #48
10	Black #10 + Red #10	23	Black #23 + Red #23	36	Black #36 + Red #36	49	Black #49 + Red #49
11	Black #11 + Red #11	24	Black #24 + Red #24	37	Black #37 + Red #37	50	Black #50 + Red #50
12	Black #12 + Red #12	25	Black #25 + Red #25	38	Black #38 + Red #38	51	Black #51 + Red #51
13	Black #13 + Red #13	26	Black #26 + Red #26	39	Black #39 + Red #39		

Chart BW

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black +White #1	14	Black + White #14	27	Black + White #27	40	Black + White #40
2	Black + White #2	15	Black + White #15	28	Black + White #28	41	Black + White #41
3	Black + White #3	16	Black + White #16	29	Black + White #29	42	Black + White #42
4	Black + White #4	17	Black + White #17	30	Black + White #30	43	Black + White #43
5	Black + White #5	18	Black + White #18	31	Black + White #31	44	Black + White #44
6	Black + White #6	19	Black + White #19	32	Black + White #32	45	Black + White #45
7	Black + White #7	20	Black + White #20	33	Black + White #33	46	Black + White #46
8	Black + White #8	21	Black + White #21	34	Black + White #34	47	Black + White #47
9	Black + White #9	22	Black + White #22	35	Black + White #35	48	Black + White #48
10	Black + White #10	23	Black + White #23	36	Black + White #36	49	Black + White #49
11	Black + White #11	24	Black + White #24	37	Black + White #37	50	Black + White #50
12	Black + White #12	25	Black + White #25	38	Black + White #38		
13	Black + White #13	26	Black + White #26	39	Black + White #39		

Chart C

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Blue + White	14	Orange/Slate + White	27	Blue/Orange + Red	40	Slate/White + Red
2	Orange + White	15	Green/White + White	28	Blue/Green + Red	41	Blue + Black
3	Green + White	16	Green/Brown + White	29	Blue/Brown + Red	42	Orange + Black
4	Brown + White	17	Green/Slate + White	30	Blue/Slate + Red	43	Green + Black
5	Slate + White	18	Brown/White + White	31	Orange/White + Red	44	Brown + Black
6	Blue/White + White	19	Brown/Slate + White	32	Orange/Green + Red	45	Slate + Black
7	Blue/Orange + White	20	Slate/White + White	33	Orange/Brown + Red	46	Blue/White + Black
8	Blue/Green + White	21	Blue + Red	34	Orange/Slate + Red	47	Blue/Orange + Black
9	Blue/Brown + White	22	Orange + Red	35	Green/White + Red	48	Blue/Green + Black
10	Blue/Slate + White	23	Green + Red	36	Green/Brown + Red	49	Blue/Brown + Black
11	Orange/White + White	24	Brown + Red	37	Green/Slate + Red	50	Blue/Slate + Black
12	Orange/Green + White	25	Slate + Red	38	Brown/White + Red	51	Orange/White + Black
13	Orange/Brown + White	26	Blue/White + Red	39	Brown/Slate + Red		

Chart K

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black +Red	14	Green +White	27	Brown +Orange
2	Black +White	15	Green +Blue	28	Orange +Yellow
3	Black +Green	16	Green +Yellow	29	Violet +Orange
4	Black +Blue	17	Green +Brown	30	Violet +Red
5	Black +Yellow	18	Green +Orange	31	Violet +White
6	Black +Brown	19	White +Blue	32	Violet +Green
7	Black +Orange	20	White +Yellow	33	Violet +Blue
8	Red +White	21	White +Brown	34	Violet +Yellow
9	Red +Green	22	White +Orange	35	Violet +Brown
10	Red +Blue	23	Blue +Yellow	36	Violet +Black
11	Red +Yellow	24	Blue +Brown	37	Slate +White
12	Red +Brown	25	Blue +Orange		
13	Red +Orange	26	Brown +Yellow		

Conductor Color Coding

Multipair Cables

Chart L

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	White + Blue	10	Red + Slate	19	Yellow + Brown
2	White + Orange	11	Black + Blue	20	Yellow + Slate
3	White + Green	12	Black + Orange	21	Violet + Blue
4	White + Brown	13	Black + Green	22	Violet + Orange
5	White + Slate	14	Black + Brown	23	Violet + Green
6	Red + Blue	15	Black + Slate	24	Violet + Brown
7	Red + Orange	16	Yellow + Blue	25	Violet + Slate
8	Red + Green	17	Yellow + Orange		
9	Red + Brown	18	Yellow + Green		

Chart M

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Blue/White + White/Blue	10	Slate/Red + Red/Slate	19	Brown/Yellow + Yellow/Brown
2	Orange/White + White/Orange	11	Blue/Black + Black/Blue	20	Slate/Yellow + Yellow/Slate
3	Green/White + White/Green	12	Orange/Black + Black/Orange	21	Blue/Violet + Violet/Blue
4	Brown/White + White/Brown	13	Green/Black + Black/Green	22	Orange/Violet + Violet/Orange
5	Slate/White + White/Slate	14	Brown/Black + Black/Brown	23	Green/Violet + Violet/Green
6	Blue/Red + Red/Blue	15	Slate/Black + Black/Slate	24	Brown/Violet + Violet/Brown
7	Orange/Red + Red/Orange	16	Blue/Yellow + Yellow/Blue	25	Slate/Violet + Violet/Slate
8	Green/Red + Red/Green	17	Orange/Yellow + Yellow/Orange		
9	Brown/Red + Red/Brown	18	Green/Yellow + Yellow/Green		

Chart N

Pair No.	Color Combination
1	Black + Yellow
2	Red + Violet
3	Blue + Brown
4	Orange + Green
5	Black/White + White/Black
6	Brown/White + White/Brown
7	Red/White + White/Red
8	Orange/White + White/Orange
9	Yellow/White + White/Yellow
10	Green/White + White/Green
11	Blue/White + White/Blue
12	Violet/White + White/Violet

Chart Q

Pair No.	Color Combination
1	Black + White
2	Red + Green
3	Brown + Blue
4	Orange + Yellow
5	Violet + Slate
6	Tan + Pink
7	White/Blue + Blue/White
8	White/Brown + Brown/White
9	White/Orange + Orange/White
10	White/Green + Green/White
11	White/Red + Red/White
12	White/Black + Black/White
13	Yellow/Blue + Blue/Yellow
14	Yellow/Brown + Brown/Yellow
15	Yellow/Orange + Orange/Yellow
16	Yellow/Red + Red/Yellow
17	Yellow/Black + Black/Yellow
18	Yellow/Violet + Violet/Yellow

Conductor Color Coding

Multiconductor Cables

Chart D

No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe
1	Black			
2	Red			
3	White			
4	Green			
5	Orange			
6	Blue			
7	Brown			
8	Yellow			
9	Violet			
10	Slate			
11	Pink			
12	Tan			
13	Red	Green		
14	Red	Yellow		
15	Red	Black		
16	White	Black		
17	White	Red		
18	White	Green		
19	White	Yellow		
20	White	Blue		
21	White	Brown		
22	White	Orange		
23	White	Slate		
24	White	Violet		
25	White	Black	Red	
26	White	Black	Green	
27	White	Black	Yellow	
28	White	Black	Blue	
29	White	Black	Brown	
30	White	Black	Orange	
31	White	Black	Slate	
32	White	Black	Violet	
33	White	Black	Black	
34	White	Red	Black	
35	White	Red	Red	
36	White	Red	Green	
37	White	Red	Blue	
38	White	Red	Brown	
39	White	Red	Violet	
40	White	Green	Black	
41	White	Green	Red	
42	White	Green	Green	
43	White	Green	Blue	
44	White	Green	Brown	
45	White	Green	Violet	
46	White	Blue	Black	
47	White	Blue	Red	
48	White	Blue	Green	
49	White	Blue	Blue	
50	White	Blue	Brown	
51	White	Blue	Violet	
52	White	Brown	Black	
53	White	Brown	Red	
54	White	Brown	Green	
55	White	Brown	Blue	
56	White	Brown	Brown	
57	White	Brown	Violet	
58	White	Violet	Red	
59	White	Violet	Green	
60	White	Violet	Blue	
61	White	Black	Red	Green
62	White	Black	Red	Yellow
63	White	Black	Red	Blue
64	White	Black	Red	Brown
65	White	Black	Red	Orange
66	White	Black	Red	Slate
67	White	Black	Red	Violet
68	White	Black	Green	Yellow
69	White	Black	Green	Blue
70	White	Black	Green	Brown
71	White	Black	Green	Orange
72	White	Black	Green	Slate
73	White	Black	Green	Violet
74	White	Black	Yellow	Blue
75	White	Black	Yellow	Brown
76	White	Black	Yellow	Orange
77	White	Black	Yellow	Slate
78	White	Black	Yellow	Violet
79	White	Black	Blue	Brown
80	White	Black	Blue	Orange
81	White	Black	Blue	Slate
82	White	Black	Blue	Violet
83	White	Black	Brown	Orange
84	White	Black	Brown	Slate
85	White	Black	Brown	Violet
86	White	Black	Orange	Slate
87	White	Black	Orange	Violet
88	White	Black	Slate	Violet
89	White	Red	Black	Green
90	White	Red	Black	Yellow
91	White	Red	Black	Blue
92	White	Red	Black	Brown
93	White	Red	Black	Orange
94	White	Red	Black	Slate
95	White	Red	Black	Violet
96	White	Red	Green	Yellow
97	White	Red	Green	Blue
98	White	Red	Green	Brown
99	White	Red	Green	Orange
100	White	Red	Green	Slate

Chart D1

No.	Color
1	Black
2	Red
3	White
4	Green
5	Yellow
6	Blue

Chart CE

芯数	Color
1	Green/Yellow
2	Lt. Blue
3	Black
4	Brown

Chart D2

No.	Color	Stripe
1	Black	
2	White	
3	Red	
4	Green	
5	Brown	
6	Blue	
7	Orange	
8	Yellow	
9	Violet	
10	Slate	
11	Pink	
12	Tan	
13	White	Blue
14	White	Orange
15	White	Green
16	White	Brown
17	White	Slate
18	Red	Blue
19	Red	Orange
20	Red	Green
21	Red	Brown
22	Red	Slate
23	Green	Blue
24	Green	Orange
25	Green	Brown

Conductor Color Coding

Multiconductor Cables

Chart E

No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe
1	Black			
2	Brown			
3	Red			
4	Orange			
5	Yellow			
6	Green			
7	Blue			
8	Violet			
9	Slate			
10	White			
11	White	Black		
12	White	Brown		
13	White	Red		
14	White	Orange		
15	White	Yellow		
16	White	Green		
17	White	Blue		
18	White	Violet		
19	White	Slate		
20	White	Black	Brown	
21	White	Black	Red	
22	White	Black	Orange	
23	White	Black	Yellow	
24	White	Black	Green	
25	White	Black	Blue	
26	White	Black	Violet	
27	White	Black	Slate	
28	White	Brown	Red	
29	White	Brown	Orange	
30	White	Brown	Yellow	
31	White	Brown	Green	
32	White	Brown	Blue	
33	White	Brown	Violet	
34	White	Brown	Slate	
35	White	Red	Orange	
36	White	Red	Yellow	
37	White	Red	Green	
38	White	Red	Blue	
39	White	Red	Violet	
40	White	Red	Slate	
41	White	Orange	Yellow	
42	White	Orange	Green	
43	White	Orange	Blue	
44	White	Orange	Violet	
45	White	Orange	Slate	
46	White	Yellow	Green	
47	White	Yellow	Blue	
48	White	Yellow	Violet	
49	White	Yellow	Slate	
50	White	Green	Blue	
51	White	Green	Violet	
52	White	Green	Slate	
53	White	Blue	Violet	
54	White	Blue	Slate	
55	White	Violet	Slate	
56	White	Black	Brown	Red
57	White	Black	Brown	Orange
58	White	Black	Brown	Yellow
59	White	Black	Brown	Green
60	White	Black	Brown	Blue
61	White	Black	Brown	Violet
62	White	Black	Brown	Slate
63	White	Black	Red	Yellow
64	White	Black	Red	Green
65	White	Black	Red	Blue
66	White	Black	Red	Violet
67	White	Black	Red	Slate
68	White	Black	Orange	Yellow
69	White	Black	Orange	Green
70	White	Black	Orange	Blue
71	White	Black	Orange	Violet
72	White	Black	Orange	Slate
73	White	Black	Yellow	Green
74	White	Black	Yellow	Blue
75	White	Black	Yellow	Violet
76	White	Black	Yellow	Slate
77	White	Black	Green	Blue
78	White	Black	Green	Violet
79	White	Black	Green	Slate
80	White	Black	Blue	Violet
81	White	Black	Blue	Slate
82	White	Black	Violet	Slate
83	White	Brown	Red	Orange
84	White	Brown	Red	Yellow
85	White	Brown	Red	Green
86	White	Brown	Red	Blue
87	White	Brown	Red	Violet
88	White	Brown	Red	Slate
89	White	Brown	Orange	Yellow
90	White	Brown	Orange	Green
91	White	Brown	Orange	Blue
92	White	Brown	Orange	Violet
93	White	Brown	Orange	Slate
94	White	Brown	Yellow	Green
95	White	Brown	Yellow	Blue
96	White	Brown	Yellow	Violet
97	White	Brown	Yellow	Slate
98	White	Brown	Green	Blue
99	White	Brown	Green	Violet
100	White	Brown	Green	Slate

Chart F

No.	Base Color	1st Stripe	2nd Stripe
1	Black		
2	White		
3	Red		
4	Green		
5	Orange		
6	Blue		
7	White	Black	
8	Red	Black	
9	Green	Black	
10	Orange	Black	
11	Blue	Black	
12	Black	White	
13	Red	White	
14	Green	White	
15	Blue	White	
16	Black	Red	
17	White	Red	
18	Orange	Red	
19	Blue	Red	
20	Red	Green	
21	Orange	Green	
22	Black	White	Red
23	White	Black	Red
24	Red	Black	White
25	Green	Black	White
26	Orange	Black	White
27	Blue	Black	White
28	Black	Red	Green
29	White	Red	Green
30	Red	Black	Green
31	Green	Black	Orange
32	Orange	Black	Green
33	Blue	White	Orange
34	Black	White	Orange
35	White	Red	Orange
36	Orange	White	Blue
37	White	Red	Blue
38	Black	White	Green
39	White	Black	Green
40	Red	White	Green
21	Orange	Green	
22	Black	White	Red
23	White	Black	Red
24	Red	Black	White
25	Green	Black	White
26	Orange	Black	White
27	Blue	Black	White
28	Black	Red	Green
29	White	Red	Green
30	Red	Black	Green
31	Green	Black	Orange
32	Orange	Black	Green
33	Blue	White	Orange
34	Black	White	Orange
35	White	Red	Orange
36	Orange	White	Blue
37	White	Red	Blue
38	Black	White	Green
39	White	Black	Green
40	Red	White	Green

Chart G

No.	Base Color	Stripe
1	White	
2	Black	
3	Red	
4	Green	
5	Yellow	
6	Blue	
7	Brown	
8	Orange	
9	Slate	
10	Violet	
11	White	Black
12	White	Brown
13	White	Red
14	White	Orange
15	White	Yellow

Conductor Color Coding

Multiconductor Cables

Chart H

No.	Base Color	Stripe	No.	Base Color	Stripe	No.	Base Color	Stripe
1	Black		8	Orange		15	White	Blue
2	White		9	Slate		16	White	Brown
3	Red		10	Violet		17	White	Violet
4	Green		11	White	Black	18	White	Slate
5	Yellow		12	White	Red	19	Black	Red
6	Blue		13	White	Green	20	Black	Yellow
7	Brown		14	White	Yellow			

Chart I

No.	Color
1	Green
2	White
3	Brown
4	Blue
5	Orange
6	Yellow

Chart I2

No.	Color	Stripe
1	Brown	
2	Blue	
3	Green	Yellow

Chart J

No.	Base Color	Stripe	No.	Base Color	Stripe
1	Black		20	Yellow	Blue
2	Red		21	Brown	Blue
3	Blue		22	Black	Orange
4	Orange		23	Red	Orange
5	Yellow		24	Blue	Orange
6	Brown		25	Yellow	Orange
7	Red	Black	26	Brown	Orange
8	Blue	Black	27	Black	Yellow
9	Orange	Black	28	Red	Yellow
10	Yellow	Black	29	Blue	Yellow
11	Brown	Black	30	Orange	Yellow
12	Black	Red	31	Brown	Yellow
13	Blue	Red	32	Black	Brown
14	Orange	Red	33	Red	Brown
15	Yellow	Red	34	Blue	Brown
16	Brown	Red	35	Orange	Brown
17	Black	Blue	36	Yellow	Brown
18	Red	Blue	37	Black	
19	Orange	Blue			

Chart J1

No.	Base Color	Stripe
1	Black #1	
2	Red #2	
3	Blue #3	
4	Orange #4	
5	Yellow #5	
6	Brown #6	
7	Red	Black #7
8	Blue	Black #8
9	Orange	Black #9
10	Yellow	Black #10
11	Brown	Black #11
12	Black	Red #12

Chart KW

No.	Color	No.	Color
1	Green/Yellow	34	Black #33
2	Black #1	35	Black #34
3	White/Black*	36	Black #35
4	Black #3	37	Black #36
5	Black #4	38	Black #37
6	Black #5	39	Black #38
7	Black #6	40	Black #39
8	Black #7	41	Black #40
9	Black #8	42	Black #41
10	Black #9	43	Black #42
11	Black #10	44	Black #43
12	Black #11	45	Black #44
13	Black #12	46	Black #45
14	Black #13	47	Black #46
15	Black #14	48	Black #47
16	Black #15	49	Black #48
17	Black #16	50	Black #49
18	Black #17	51	Black #50
19	Black #18	52	Black #51
20	Black #19	53	Black #52
21	Black #20	54	Black #53
22	Black #21	55	Black #54
23	Black #22	56	Black #55
24	Black #23	57	Black #56
25	Black #24	58	Black #57
26	Black #25	59	Black #58
27	Black #26	60	Black #59
28	Black #27	61	Black #60
29	Black #28	62	Black #61
30	Black #29	63	Black #62
31	Black #30	64	Black #63
32	Black #31	65	Black #64
33	Black #32		

*The white/black neutral conductor is used only on 18 and 16 AWG cables with conductor counts of 12 or greater.

Conductor Color Coding

Multiconductor Cables

Chart KX

No.	Color	No.	Color	No.	Color
1	Green/Yellow	23	Black #22	45	Black #44
2	Black #1	24	Black #23	46	Black #45
3	Black #2	25	Black #24	47	Black #46
4	Black #3	26	Black #25	48	Black #47
5	Black #4	27	Black #26	49	Black #48
6	Black #5	28	Black #27	50	Black #49
7	Black #6	29	Black #28	51	Black #50
8	Black #7	30	Black #29	52	Black #51
9	Black #8	31	Black #30	53	Black #52
10	Black #9	32	Black #31	54	Black #53
11	Black #10	33	Black #32	55	Black #54
12	Black #11	34	Black #33	56	Black #55
13	Black #12	35	Black #34	57	Black #56
14	Black #13	36	Black #35	58	Black #57
15	Black #14	37	Black #36	59	Black #58
16	Black #15	38	Black #37	60	Black #59
17	Black #16	39	Black #38	61	Black #60
18	Black #17	40	Black #39	62	Black #61
19	Black #18	41	Black #40	63	Black #62
20	Black #19	42	Black #41	64	Black #63
21	Black #20	43	Black #42	65	Black #64
22	Black #21	44	Black #43		

Chart LW

No.	Color	No.	Color	No.	Color
1	Green/Yellow	23	Dk. Blue #22	45	Dk. Blue #44
2	Dk. Blue #1	24	Dk. Blue #23	46	Dk. Blue #45
3	White/Blue*	25	Dk. Blue #24	47	Dk. Blue #46
4	Dk. Blue #3	26	Dk. Blue #25	48	Dk. Blue #47
5	Dk. Blue #4	27	Dk. Blue #26	49	Dk. Blue #48
6	Dk. Blue #5	28	Dk. Blue #27	50	Dk. Blue #49
7	Dk. Blue #6	29	Dk. Blue #28	51	Dk. Blue #50
8	Dk. Blue #7	30	Dk. Blue #29	52	Dk. Blue #51
9	Dk. Blue #8	31	Dk. Blue #30	53	Dk. Blue #52
10	Dk. Blue #9	32	Dk. Blue #31	54	Dk. Blue #53
11	Dk. Blue #10	33	Dk. Blue #32	55	Dk. Blue #54
12	Dk. Blue #11	34	Dk. Blue #33	56	Dk. Blue #55
13	Dk. Blue #12	35	Dk. Blue #34	57	Dk. Blue #56
14	Dk. Blue #13	36	Dk. Blue #35	58	Dk. Blue #57
15	Dk. Blue #14	37	Dk. Blue #36	59	Dk. Blue #58
16	Dk. Blue #15	38	Dk. Blue #37	60	Dk. Blue #59
17	Dk. Blue #16	39	Dk. Blue #38	61	Dk. Blue #60
18	Dk. Blue #17	40	Dk. Blue #39	62	Dk. Blue #61
19	Dk. Blue #18	41	Dk. Blue #40	63	Dk. Blue #62
20	Dk. Blue #19	42	Dk. Blue #41	64	Dk. Blue #63
21	Dk. Blue #20	43	Dk. Blue #42	65	Dk. Blue #64
22	Dk. Blue #21	44	Dk. Blue #43		

*The white/blue neutral conductor is used only on 18 and 16 AWG cables with conductor counts of 12 or greater.

Chart LX

No.	Color
1	Green/Yellow
2	Dk. Blue #1
3	Dk. Blue #2
4	Dk. Blue #3
5	Dk. Blue #4
6	Dk. Blue #5
7	Dk. Blue #6
8	Dk. Blue #7
9	Dk. Blue #8
10	Dk. Blue #9
11	Dk. Blue #10

Chart O

No.	Color	No.	Color
1	Black	9	Violet
2	White	10	Slate
3	Red	11	Pink
4	Green	12	Tan
5	Brown	13	Black/White
6	Blue	14	Red/White
7	Orange	15	Green/White
8	Yellow		

Conductor Color Coding

Multiconductor Cables

Chart P

No.	Color
1	White
2	Black
3	Red
4	Green
5	Blue
6	Brown
7	Yellow
8	Orange

Chart R

No.	Base Color	1st Stripe	2nd Stripe	No.	Base Color	1st Stripe	2nd Stripe
1	Black			16	White	Black	
2	Red			17	White	Red	
3	Green			18	White	Green	
4	White			19	White	Yellow	
5	Brown			20	White	Blue	
6	Blue			21	White	Brown	
7	Orange			22	White	Orange	
8	Yellow			23	White	Slate	
9	Violet			24	White	Violet	
10	Slate			25	White	Black	Red
11	Pink			26	White	Black	Green
12	Tan			27	White	Black	Yellow
13	Red	Green		28	White	Black	Blue
14	Red	Yellow		29	White	Black	Brown
15	Red	Black		30	White	Black	Orange

Chart RW

No.	Color	No.	Color	No.	Color
1	Green/Yellow	23	Red #22	45	Red #44
2	Red #1	24	Red #23	46	Red #45
3	White/Red*	25	Red #24	47	Red #46
4	Red #3	26	Red #25	48	Red #47
5	Red #4	27	Red #26	49	Red #48
6	Red #5	28	Red #27	50	Red #49
7	Red #6	29	Red #28	51	Red #50
8	Red #7	30	Red #29	52	Red #51
9	Red #8	31	Red #30	53	Red #52
10	Red #9	32	Red #31	54	Red #53
11	Red #10	33	Red #32	55	Red #54
12	Red #11	34	Red #33	56	Red #55
13	Red #12	35	Red #34	57	Red #56
14	Red #13	36	Red #35	58	Red #57
15	Red #14	37	Red #36	59	Red #58
16	Red #15	38	Red #37	60	Red #59
17	Red #16	39	Red #38	61	Red #60
18	Red #17	40	Red #39	62	Red #61
19	Red #18	41	Red #40	63	Red #62
20	Red #19	42	Red #41	64	Red #63
21	Red #20	43	Red #42	65	Red #64
22	Red #21	44	Red #43		

*The white/red neutral conductor is used only on 18 and 16 AWG cables with conductor counts of 12 or greater.

Chart RX

No.	Color
1	Green/Yellow
2	Red #1
3	Red #2
4	Red #3
5	Red #4
6	Red #5
7	Red #6
8	Red #7
9	Red #8
10	Red #9
11	Red #10
12	Red #11

Conductor Color Coding

Hook-Up Wire

Chart Z1	
No.	**Color**
1	White
2	Black
3	Red
4	Green
5	Yellow
6	Blue
7	Brown
8	Orange
9	Slate
10	Violet
11	White/Black
12	White/Red
13	White/Green
14	White/Yellow
15	White/Blue
16	White/Brown
17	White/Brown
18	White/Slate
19	White/Violet
28	Green/Yellow
29	Yellow/Green
30	Pink

Chart Z2	
No.	**Color**
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Slate
9	White
45	Yellow/Green
54	Green/Yellow
90	White/Black
91	White/Brown
92	White/Red
93	White/Orange
94	White/Yellow
95	White/Green
96	White/Blue
97	White/Violet
98	White/Slate
P	Pink
T	Tan
X	Clear

Conductor Color Coding DIN for Pro-Met 440&441

Refer to DIN 41700

Multiconductor Cable			
Conductor #	Ins Color	Marking color 1	Marking color 2
1	White		
2	Brown		
3	Green		
4	Yellow		
5	Grey		
6	Pink		
7	Blue		
8	Red		
9	Black		
10	Violet		
11	Grey	/ Pink	
12	Red	/ Blue	
13	White	/ Green	
14	Brown	/ Green	
15	White	/ Yellow	
16	Yellow	/ Brown	
17	White	/ Grey	
18	Grey	/ Brown	
19	White	/ Pink	
20	Pink	/ Brown	
21	White	/ Blue	
22	Brown	/ Blue	
23	White	/ Red	
24	Brown	/ Red	
25	White	/ Black	
26	Brown	/ Black	
27	Grey	/ Green	
28	Yellow	/ Grey	
29	Pink	/ Green	
30	Yellow	/ Pink	
31	Green	/ Blue	
32	Yellow	/ Blue	
33	Green	/ Red	
34	Yellow	/ Red	
35	Green	/ Black	
36	Yellow	/ Black	
37	Grey	/ Blue	
38	Pink	/ Blue	
39	Grey	/ Red	
40	Pink	/ Red	
41	Grey	/ Black	
42	Pink	/ Black	
43	Blue	/ Black	
44	Red	/ Black	
45	White	/ Brown	/ Brown
46	Yellow	/ Green	/ Green
47	Grey	/ Pink	/ Pink
48	Red	/ Blue	/ Blue
49	White	/ Green	/ Green
50	Brown	/ Green	/ Green
51	White	/ Yellow	/ Yellow
52	Yellow	/ Brown	/ Brown
53	White	/ Grey	/ Grey
54	Grey	/ Brown	/ Brown
55	White	/ Pink	/ Pink
56	Pink	/ Brown	/ Brown
57	White	/ Blue	/ Blue
58	Brown	/ Blue	/ Blue
59	White	/ Red	/ Red
60	Brown	/ Red	/ Red
61	White	/ Black	/ Black
62	Yellow	/ Red	/ Red
63	Grey	/ Black	/ Black
64	Red	/ Black	/ Black

Multipair Cable		
Pair #	Color of Core A	Color of Core B
1	White	Brown
2	Green	Yellow
3	Grey	Pink
4	Blue	Red
5	Black	Purple
6	Grey / Pink	Red / Blue
7	White / Green	Brown / Green
8	White / Yellow	Yellow / Brown
9	White / Grey	Grey / Brown
10	White / Pink	Pink / Brown
11	White / Blue	Brown / Blue
12	White / Red	Brown / Red
13	White / Black	Brown / Black
14	Grey / Green	Yellow / Grey
15	Pink / Green	Yellow / Pink
16	Green / Blue	Yellow / Blue
17	Green / Red	Yellow / Red
18	Green / Black	Yellow / Black
19	Grey / Blue	Pink / Blue
20	Grey / Red	Pink / Red
21	Grey / Black	Pink / Black
22	Blue / Black	Red / Black
23	Grey / Pink	Red / Blue
24	White / Green	Brown / Green
25	White / Yellow	Yellow / Brown
26	White / Grey	Grey / Brown
27	White / Pink	Pink / Brown
28	White / Blue	Brown / Blue
29	White / Red	Brown / Red
30	White / Black	Brown / Black
31	Grey / Green	Yellow / Grey
32	Pink / Green	Yellow / Pink
33	Green / Blue	Yellow / Blue
34	Green / Red	Yellow / Red
35	Green / Black	Yellow / Black
36	Grey / Blue	Pink / Blue
37	Grey / Red	Pink / Red
38	Grey / Black	Pink / Black
39	Blue / Black	Red / Black
40	Grey / Pink	Red / Blue
41	White / Green	Brown / Green
42	White / Yellow	Yellow / Brown
43	White / Grey	Grey / Brown
44	White / Pink	Pink / Brown
45	White / Blue / Blue	Brown / Blue / Blue
46	White / Red / Red	Brown / Red / Red
47	White / Black / Black	Brown / Black / Black
48	Grey / Green / Green	Yellow / Grey / Grey
49	Pink / Green / Green	Yellow / Pink / Pink
50	Green / Blue / Blue	Yellow / Blue / Blue
51	Green / Red / Red	Yellow / Red / Red
52	Green / Black / Black	Yellow / Black / Black
53	Grey / Blue / Blue	Pink / Blue / Blue
54	Grey / Red / Red	Pink / Red / Red
55	Grey / Black / Black	Pink / Black / Black
56	Blue / Black / Black	Red / Black / Black

Properties of Common Insulation and Jacket Materials

Plastics									
Property	**Low-Density PE**	**High-Density PE**	**Cellular PE**	**Nylon**	**PP**	**Cellular PP**	**PVC**	**Plenum PVC**	**PUR**
Abrasion Resistance	G	E	F	E	F–G	F–G	F–G	F–G	O
Acid Resistance	G–E	E	G–E	P–F	E	E	G–E	G	F
Alcohol Resistance	E	E	E	P	E	E	P–F	G	P–G
Aliphatic Hydrocarbons Resistance (Gasoline, Kerosene, etc.)	G–E	G–E	G	G	P–F	P	P	P	P–G
Alkali Resistance	G–E	E	G–E	E	E	E	G–E	G	F
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc.)	P	P	P	G	P–F	P	P–F	P–F	P–G
Electrical Properties	E	E	E	P	E	E	F–G	G	P
Flame Resistance	P	P	P	P	P	P	E	E	P
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	G	G	G	G	P	P	P–F	P–F	P–G
Heat Resistance	G	E	G	E	E	E	G–E	G–E	G
Low-Temperature Flexibility	E	E	E	G	P	P	P–G	P–G	G
Nuclear Radiation Resistance	G–E	G–E	G	F–G	F	F	F	F	G
Oil Resistance	G–E	G–E	G	E	F	F	F	F	E
Oxidation Resistance	E	E	E	E	E	E	E	E	E
Ozone Resistance	E	E	E	E	E	E	E	E	E
Underground Burial	G	E	N/A	P	N/A	N/A	P–G	P	G
Water Resistance	E	E	E	P–F	E	E	F–G	F	P–G
Weather, Sun Resistance	E	E	E	E	E	E	G–E	G	G

Ratings based on average performance of general-purpose compounds. Specific properties can usually be improved by selective compounding.

P Poor
F Fair
G Good
E Excellent
O Outstanding

Fluoropolymers						
Property	**FEP**	**PTFE**	**ETFE**	**ECTFE**	**PVDF**	**TPE**
Abrasion Resistance	E	O	E	E	E	F–G
Acid Resistance	E	E	E	E	G–E	G
Alcohol Resistance	E	E	E	E	E	G
Aliphatic Hydrocarbons Resistance (Gasoline, Kerosene, etc.)	E	E	E	E	E	P
Alkali Resistance	E	E	E	E	E	G–E
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc.)	E	E	E	E	G–E	P
Electrical Properties	E	E	E	E	G–E	E
Flame Resistance	O	E	G	E–O	E	F–G
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	E	E	E	E	G	
Heat Resistance	O	O	E	O	O	E
Low-Temperature Flexibility	O	O	E	O	F	E
Nuclear Radiation Resistance	P–G	P	E	E	E	G
Oil Resistance	O	E–O	E	O	E	G
Oxidation Resistance	O	O	E	O	O	E
Ozone Resistance	E	O	E	E	E	E
Underground Burial	E	E	E	E	E	P
Water Resistance	E	E	E	E	E	G–E
Weather, Sun Resistance	O	O	E	O	E–O	E

Ratings based on average performance of general-purpose compounds. Specific properties can usually be improved by selective compounding.

P Poor
F Fair
G Good
E Excellent
O Outstanding

Properties of Common Insulation and Jacket Materials

Rubber				
Property	**Rubber**	**Neoprene**	**EPDM**	**Silicone**
Abrasion Resistance	E	G–E	G	P
Acid Resistance	F–G	G	G–E	F–G
Alcohol Resistance	G	F	P	G
Aliphatic Hydrocarbons Resistance (Gasoline, Kerosene, etc.)	P	G	P	P–F
Alkali Resistance	F–G	G	G–E	F–G
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc.)	P	P-F	F	P
Electrical Properties	G	P	E	G
Flame Resistance	P	G	P	F–G
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	P	P	P	P–G
Heat Resistance	F	G	E	O
Low-Temperature Flexibility	G	F–G	G- E	O
Nuclear Radiation Resistance	F	F–G	G	E
Oil Resistance	P	G	P	F–G
Oxidation Resistance	F	G	E	E
Ozone Resistance	P	G	E	O
Water Resistance	G	E	G–E	G-E
Weather, Sun Resistance	F	G	E	O

Ratings based on average performance of general-purpose compounds. Specific properties can usually be improved by selective compounding.

P Poor
F Fair
G Good
E Excellent
O Outstanding

Temperature Ranges of Insulation and Jacket Materials				
Material	**Normal Low**	**Normal High**	**Special Low**	**Special High**
ECTFE	-70°C	150°C	—	—
EPDM	-55°C	105°C	—	150°C
ETFE	-65°C	150°C	—	—
FEP	-70°C	200°C	—	—
Neoprene	-20°C	60°C	-55°C	90°C
PE	-60°C	80°C	—	—
Plenum PVC	-20°C	75°C	—	—
PP	-40°C	105°C	—	—
PTFE	-70°C	260°C	—	—
PVC	-20°C	80°C	-55°C	105°C
PVDF	-20°C	125°C	-40°C	150°/150°C
Rubber	-30°C	60°C	-55°C	75°C
Silicone	-80°C	150°C	—	200°C
TPE	-40°C	105°C	-50°C	125°C

Agency Approvals

UL/NEC • cUL/CEC • CSA/CEC Classification

UL Standard 444/CSA C22.2: Multi-National Harmonized Communication Cable Standards CSA C22.2 No. 214-94 and UL 444.

UL (Underwriters Laboratories Inc.): Develops standards and test procedures for products, materials, components, assemblies, tool and equipment. It mainly deals with product safety in the United States.

NEC (National Electrical Code): A United States standard for the safe installation of electrical wiring equipment.

AWM (Appliance Wiring Material): Intended for the internal wiring of factory-assembled products.

CSA (Canadian Standards Association International): Tests products for compliant with national and international standards and issues certification marks for qualified products.

CEC (Canadian Electrical Code): A standard published by the CSA that pertains to the installation and maintenance of electrical equipment in Canada.

cUL: A notation indicating that the UL has listed the product under the applicable CSA standard.

cRU: A notation indicating that the UL has recognized the product under the applicable CSA standard.

CE (Conformité Européenne): A European Economic Community approval indicating that the product complies with LVD/73/23.

NEC Article 725 Types CL2, CL3, PLTC/CL3, (Class 2 & 3 cables)

Plenum	Riser	Commercial	Residential
CL2P	CL2R	CL2	CL2X*
CL3P	CL3R	CL3	CL3X*
(none)	(none)	PLTC*	(none)

NEC Article 760 Type FPL (Power-Limited, Fire Protective Signaling Circuit Cable)

Plenum	Riser	Commercial	Residential
FPLP	FPLR	FPL	(none)

NEC Article 800 Type CM (Communications)

Plenum	Riser	Commercial	Residential
CMP	CMR	CMG, CM	CMX*

NEC Article 336 Type TC (Tray Cable)

NEC Article 690 Type PV (Photovoltaic Wire)

NEC Article 820 Type CATV (Community Antenna Television and Radio Distribution System)

Plenum	Riser	Commercial	Residential
CATVP	CATVR	CATV	CATVX**

*Cable diameter must be less than 0.250" (6.35 mm)

**Cable diameter must be less than 0.375" (9.53 mm)

CSA is a nonprofit, independent organization that operates a nationally recognized testing laboratory (NRTL) for electrical and electronic materials and equipment. Alpha Wire Company offers the following types of Canadian CSA certifications on a wide variety of wire and cable products.

AWM (Appliance Wiring Material) is manufactured in accordance with CSA Standard C22.2 No. 210. These products are intended for the internal wiring of electrical and electronic equipment and interconnecting wiring between equipment. All of these wires and cables must pass one of the following flame tests in order to comply with CSA certification requirements.

FT1 Vertical Flame Test per CSA C22.2 No. 3 specifies that finished cable shall not propagate a flame or continue to burn for more than one minute after five 15-second applications of the test flame. There is an interval of 15 seconds between flame applications.

FT4 Vertical Flame Test per CSA C22.2 No. 3 for cables in cable trays. This test is similar to, but more severe than, the UL Standard 1581 Vertical Tray flame test. The UL 1581 has its burner at 0° from the horizontal while the FT4 has its burner mounted at 20° from the horizontal with its burner parts facing up. The allowable char length is only 1.5 m (58"), while UL 1581 allows damage up to a maximum of 8 ft (2.4 m).

Agency Approvals

CMP CSA FT6/UL910 Horizontal Flame and Smoke Test 300,000 BTU

Horizontal flame and smoke test in accordance with ANSI/NFPA Standard 262-1985 (UL 910). The maximum flame spread shall be 1.50 m (58"). The smoke density shall be 0.5 at peak optical density and 0.15 at maximum average optical density. This test does not investigate toxicity, combustion, or decomposition.

CMR UL 1666 Vertical Flame Test 527,500 BTU

A large-scale fire test for determining values of flame propagation height for electrical and optical-fiber cables that are intended for installation vertically in shafts. The flame propagation height is not to equal or exceed 12 ft (3.6 m). The temperature of any thermocouple at the 12 ft (3.5 m) height is not to exceed 850°F (454°C). The purpose of the test is to determine whether the flame propagation characteristics of these "riser" cables are in accordance with the NEC. This test does not investigate toxicity, combustion or decomposition.

This test is more stringent than UL 1685/UL 1581 (Vertical Tray) in so much as the cable samples must be greater than 13 mm in diameter. If not, the cables are grouped in bundles of at least three to obtain an overall group diameter of 13 mm. In addition, the burner is set at a 20° angle from the horizon with the burner ports facing up. This test has a maximum char height of 1.5 m (59") measured from the lower edge of the burner.

This test consist of an essentially flat metal plate burner mounted 0°C from the horizon. This test does not distinguish any specific cable size or diameter. This test has a maximum flame and char height of 78" measured from the burner.

A vertical finished cable shall not flame longer than 60 seconds following any of five 15-second applications of the specified nominal 125-mm premixed 500-W test flame (1,700 BTU/hr.), the period between applications being (1) 15 seconds if the cable flaming ceases within 15 seconds or less time or (2) the duration of the cable flaming if the cable flame persists longer than 15 seconds. The cable shall not ignite combustible materials in the vicinity or damage more than 25% of the indicator flag during, between, or after the five applications of the test flame. The CSA FT-1 test is similar; however, it refers to CSA C22.2 No. 3, Paragraph 4.11.1 for flame test procedures.

The descriptions for the above flame tests are paraphrased from the applicable documents. For specific information, please consult the appropriate agency documentation.

Military Specifications

Military Specifications	
MIL-DTL-17	RG cables-polyethylene and PTFE cores.
MIL-W-76	General purpose hook-up wire for internal wiring of electronic equipment. Temperature range -40°C to 80°C vinyl, Types LW, MH, HW for service up to 2500 volts, polyethylene Type HF to 1000 volts.
MIL-W-3861	Copper conductors (uninsulated). Solid, bunches, concentric and rope constructions. Replaced by QQ-W-343 then superseded by A-A-59551.
MIL-DTL-16878	Military specification, covering unshielded wire for hook-up and lead wiring of electronic and electrical components and equipment. Formerly MIL-DTL-16878.
MIL-DTL-22759	PTFE insulated hook-up wire MIL-DTL-22759.
MIL-DTL-27500	600 volt aircraft wire with PTFE insulation. Formerly MIL-DTL-27500.
QQ-W-343	Copper conductors (uninsulated). Solid, bunches, concentric and rope constructions. Superseded by A-A-59551.
AMS-DTL-23053	General specification for heat shrinkable insulation sleeving. Formerly MIL-DTL-23053.
MIL-L-631	Non-rigid synthetic resin composition electrical insulation. May be in the form of film, sheets, tapes, or tubing.
MIL-I-3190	General specification for coated, flexible insulation sleeving.
A-A 59551	Wire, electrical, copper (uninsulated).
A-A 59569	Braid, wire (copper, tin-coated, silver-plated, or nickel coated, tubular or flat).
A-A 52080	Tape, lacing and tying, nylon.
A-A 52081	Tape, lacing and tying, polyester..
A-A-52083	Tape, lacing and tying, glass.
A-A-52084	Tape, lacing and tying, aramid.
A-A-59602	Tube, spiral wrap, polyethylene, PTFE and polyamide.
A-A-59301	Sleeving, textile, braided, synthetic polymer, -55°C to 105°C.
MIL-DTL-713	Twine, fibrous: impregnated, lacing and tying.
FED-STD-191	Textile test methods.
MIL-Y-1140	Yarn, cord, sleeving, cloth and tape-glass.
NEMA HP-3	PTFE insulated hook-up wire.

Military Cross Reference Index to Alpha Tubing and Sleeving Products

Heat-Shink Tubing	
MIL-SPEC	**Alpha Tubing Family**
AMS-DTL-23053/1, CL 1,2	**FIT- 600, ST-700**
AMS-DTL-23053/2, CL 2, CL2 Except Longitudinal Shrinkage	**Special order**
AMS-DTL-23053/4, CL 1, 2 & 3	**FIT-300, FIT-750, FIT-321, ST-300, ST-302, ST-303**
AMS-DTL-23053/5, CL , 2 & 3, CL1 Overexpanded	**FIT-221, FIT-221B, FIT-221V, FIT-421, FIT-321V (except dimensions), FIT-421, ST-421**
AMS-DTL-23053/8	**FIT-350**
AMS-DTL-23053/11, CL 1	**FIT-400**
AMS-DTL-23053/12, CL 3	**FIT-500**
AMS-DTL-23053/12, CL 5	**Special order**
AMS-DTL-23053/13	**FIT-650, ST-650**
AMS-DTL-23053/18, CL	**FIT-CLEAR**
AMS-DTL-23053/15, CL1 & 2	**SPC, SPCM**

Extruded Tubing	
MIL-SPEC	**Alpha Tubing Family**
MIL-I-631D	PVC-105

Coated-Fiberglass Sleeving	
MIL-SPEC	**Alpha Sleeving Family**
MIL-I-3190/3 Type C	AF-155
MIL-I-3190/2 Type B	PIF-130
MIL-I-3190/2 Type B	MPF-130
MIL-I-3190/6 Type D	PIF-200
MIL-Y-1140	PIF-240

Spirally Cut Tubing	
MIL-SPEC	**Alpha Sleeving Family**
A-A-59602, Type 1	SW-1 to SW-6
A-A-59602, Type 2	SW-20 to SW-25
A-A-59602, Type 3	SW-30 to SW-35
A-A-59602, Type 1	SW-40 to SW-45

Military Specifications

Military Cross Reference Index to Alpha Tubing and Sleeving Products

Expandable Self-Fitting Sleeving	
MIL-SPEC	**Alpha Tubing Family**
A-A-59301	XS-200N

Lacing Cords and Tapes	
MIL-SPEC	**Alpha Tubing Family**
A-A-52080 Type 3, Finish C, FED STD 191	LC-132
A-A-52080 Type 4, Finish B, FED STD 191	LC-134
A-A-52080 Type 3, Finish B, FED STD 191	LC-136
A-A-52080 Type 3, Finish C, FED STD 191	LC-140
A-A-52080 Type 3, Finish E, FED STD 191	LC-143
A-A-52080 Type 5, Finish A, FED STD 191	801530
A-A-52080 Type 5, Finish B, FED STD 191	801536
A-A-52080 Type 4, Finish B, FED STD 191	802534
A-A-52080 Type 2, Finish C, FED STD 191	805032
A-A-52080 Type 3, Finish B, FED STD 191	805036
A-A-52080 Type 3, Finish C, FED STD 191	805040
A-A-52081 Type 3, Finish B, FED STD 191	LC-162
A-A-52081 Type 5, Finish C, FED STD 191	801566
A-A-52081 Type 4, Finish C, FED STD 191	802566
A-A-52081 Type 3, Finish C, FED STD 191	805058
A-A-52081 Type 3, Finish A, FED STD 191	805060
A-A-52081 Type 3, Finish B, FED STD 191	805062
A-A-52081 Type 3, Finish C, FED STD 191	805066
A-A-52083 Type 3, Finish G, FED STD 191	807510

Fahrenheit-to-Celsius Conversion

Temperature Conversion Formula: °F = $^{9}/_{5}$ (°C + 32)

°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
-40	-40.00	36	2.22	92	33.33	148	64.44	220	104.44
-38	-38.89	37	2.78	93	33.89	149	65.00	225	107.22
-36	-37.78	38	3.33	94	34.44	150	65.56	230	110.00
-34	-36.67	39	3.89	95	35.00	151	66.11	235	112.78
-32	-35.56	40	4.44	96	35.56	152	66.66	240	115.56
-30	-34.44	41	5.00	97	36.11	153	67.22	245	118.33
-28	-33.33	42	5.56	98	36.67	154	67.77	250	121.11
-26	-32.22	43	6.11	99	37.22	155	68.33	255	123.89
-24	-31.11	44	6.67	100	37.78	156	68.88	260	126.67
-22	-30.00	45	7.22	101	38.33	157	69.44	265	129.44
-20	-28.89	46	7.78	102	38.88	156	70.00	270	132.22
-18	-27.78	47	8.33	103	39.44	159	70.55	275	135.00
-16	-26.67	48	8.89	104	40.00	160	71.11	280	137.78
-14	-25.56	49	9.44	105	40.55	161	71.66	285	140.55
-12	-24.44	50	10.00	106	41.11	162	72.22	290	143.33
-10	-23.33	51	10.56	107	41.66	163	72.77	295	146.11
-8	-22.22	52	11.11	108	42.22	164	73.33	300	148.89
-6	-21.11	53	11.67	109	42.77	165	73.89	305	151.67
-4	-20.00	54	12.22	110	43.33	166	74.44	310	154.44
-2	-18.89	55	12.78	111	43.88	167	75.00	315	157.22
0	-17.78	56	13.33	112	44.44	168	75.55	320	160.00
1	-17.22	57	13.89	113	45.00	169	76.11	325	162.78
2	-16.67	58	14.44	114	45.55	170	76.67	330	165.56
3	-16.11	59	15.00	115	46.11	171	77.22	335	168.33
4	-15.56	60	15.56	116	46.66	172	77.77	340	171.11
5	-15.00	61	16.11	117	47.22	173	78.33	345	173.89
6	-14.44	62	16.67	118	47.77	174	78.88	350	176.67
7	-13.89	63	17.22	119	48.33	175	79.44	355	179.44
8	-13.33	64	17.78	120	48.89	176	80.00	360	182.22
9	-12.78	65	18.33	121	49.44	177	80.55	365	185.00
10	-12.22	66	18.89	122	50.00	178	81.11	370	187.78
11	-11.67	67	19.44	123	50.55	179	88.66	375	190.55
12	-11.11	68	20.00	124	51.11	180	82.22	380	193.33
13	-10.56	69	20.56	125	51.67	181	82.77	385	196.11
14	-10.00	70	21.11	126	52.22	182	83.33	390	198.89
15	-9.44	71	21.67	127	52.77	183	83.88	395	201.67
16	-8.89	72	22.22	128	53.33	184	84.44	400	204.44
17	-8.33	73	22.78	129	53.88	185	85.00	405	207.22
18	-7.78	74	23.33	130	54.44	186	85.55	410	210.00
19	-7.22	75	23.89	131	55.00	187	86.11	415	212.78
20	-6.67	76	24.44	132	55.55	188	86.66	420	215.56
21	-6.11	77	25.00	133	56.11	189	87.22	425	218.33
22	-5.56	78	25.56	134	56.66	190	87.78	430	221.11
23	-5.00	79	26.11	135	57.22	191	88.33	435	223.89
24	-4.44	80	26.67	136	57.77	192	88.86	440	226.67
25	-3.89	81	27.72	137	58.33	193	89.44	445	229.44
26	-3.33	82	27.78	138	58.88	194	90.00	450	232.22
27	-2.78	83	28.33	139	59.44	195	90.55	455	235.00
28	-2.22	84	28.89	140	60.00	196	91.11	460	237.78
29	-1.67	85	29.44	141	60.55	197	91.66	465	240.55
30	-1.11	86	30.00	142	61.11	198	92.22	470	243.33
31	-0.56	87	30.56	143	61.66	199	92.77	475	246.11
32	0	88	31.11	144	62.22	200	93.33	480	248.89
33	0.56	89	31.67	145	62.78	205	96.11	485	251.67
34	1.11	90	32.22	146	63.33	210	98.89	490	254.44
35	1.67	91	32.78	147	63.88	215	101.67	495	257.22
								500	260.00

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Global Headquarters

128 Tolman Avenue
Leominster, MA 01453 | USA
Toll Free: 1-800-52 ALPHA
Tel: 1-978-537-8911
E-mail: info@alphawire.com

Europe

Saxon House
1 Downside | Sunbury-on-Thames
Middlesex | United
Kingdom | TW16 6RT
Tel: +44 (0) 1 932 772 422
E-mail: europe@alphawire.com

Asia Pacific

Science & Technology Building
Tower C | Floor 24
No 900 Yishan Road
Shanghai | China | 200233
Tel: +86-21-34182711
E-mail: apac@alphawire.com

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