



Reliable Cable Options for Transportation Applications

Cable Solutions that Meet Requirements
for Fire Protection and Life Safety,
National Fire Protection Association
(NFPA) 130 and 502

Essential cable constructions for applications in transportation, rail and roadway tunnel, station and signaling control and operation.

Designed to operate and protect your equipment for the life of your infrastructure, Belden's broad cable portfolio is backed by a 10-year warranty.

**Be certain.
Belden.**

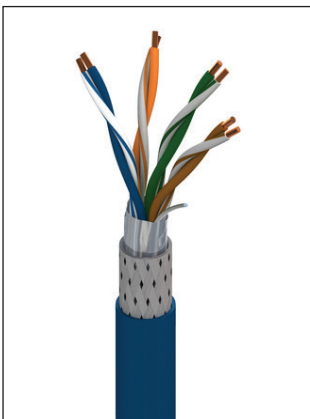
Better Performance, Increased Safety and Longer Life of your Transportation or Tunnel Control Application



Bring proven Belden quality and warranty to your transportation infrastructure or on-vehicle.

Proven Quality in Harsh Conditions

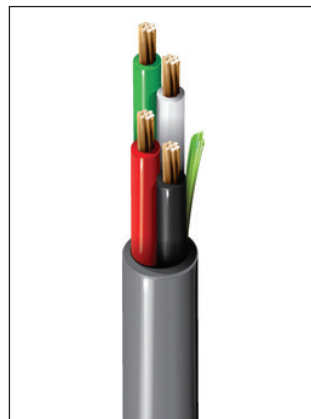
A broad portfolio of options, all backed by Belden's exclusive 10-year warranty.



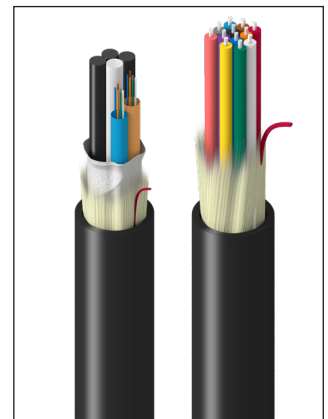
Networking track-side and on-vehicle
in roadways and tunnels



In-vehicle wiring



Power and signal control



Track-side and Station

Glossary of Terms

NFPA®	National Fire Protection Association.
NFPA® 130	Standard for underground, surface and elevated fixed guideway transit and passenger rail systems which provides fire protection and life safety requirements.
NFPA® 502	Standard for limited access highways, road tunnels, bridges, elevated highways, depressed highways, and roadways that are located beneath air-right structures which provides fire protection and fire life safety requirements.
NFPA® 70	The National Electrical Code (NEC) NFPA 70 is the benchmark for safe electrical design, installation, and inspection to protect people and property from electrical hazards.
LSZH	Low smoke zero halogen, a classification of materials using non-halogen components to achieve flame-retardant properties while reducing the toxicity of combustion byproducts in the interest of human safety.
UL 1685	Standard for vertical-tray fire-propagation and smoke-release. This test determines the values of cable damage height and smoke release from electrical and optical-fiber cables when the cables are subjected to a flaming ignition source.
-ST1	The standard for limited smoke emission under UL 1685. This rating was formerly -LS.
IEEE1202	Standard for flame-propagation testing of wire and cable. Harmonized with 1685-FT4 and CSA FT4.
Pairs	Shielded or unshielded groups of 2 conductors.
Triads	Shielded or unshielded groups of 3 conductors.
Quads	Shielded or unshielded groups of 4 conductors.



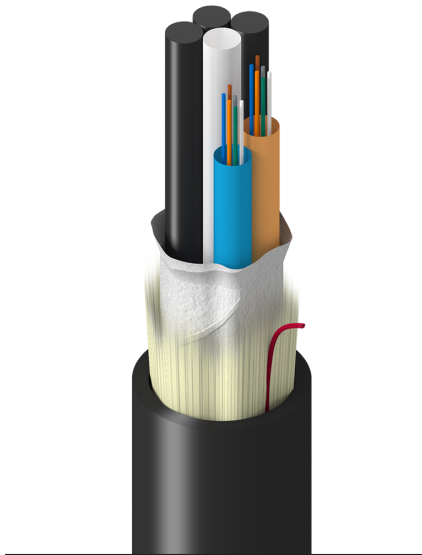
Table of Contents

Description	Voltage	Page
Fiber Optic Transit Cables.....		5
Ethernet and RS-485.....		8
Classic Electronics.....		9
Paired Constructions	600V XLPE/LSZH	11
Triad Constructions.....	600V XLPE/LSZH	12
Unshielded Control.....	600V XLPE/LSZH	14
Overall Foil Shielded Control	600V XLPE/LSZH	16
Copper Tape Shielded Control.....	600V XLPE/LSZH	18

DataTuff™ Fiber Optic Transit Cables

Loose Tube Indoor/Outdoor

Low Smoke Zero Halogen (LSZH), NFPA 130 and 502 Compliant



Standards and Ratings

TIA/EIA-568.3-D
NEC/CEC OFNG-ST1/OFCG-ST1 FT4
ICEA S-104-696
ROHS II 2011/65/EU
REACH EC1907-2006

Temperature

-40°C to +70°C Static Operating
-40°C to +70°C Storage
-10°C to +60°C Installation

Materials

Fiber Colors	Per TIA/EIA 598-C
Buffer Tube	2.8mm Thermoplastic
Strength Member	Aramid Yarn
Central Strength Member	E-glass
Inner Jacket Material/Color	LSZH/Black
Armor	Aluminum Interlock or Corrugated Steel Tape
Outer Jacket Material/Color	LSZH/Black

Options

Fiber Counts 12-36 Available in a 6F/Tube Design
Black Jacket (Other Colors Available)

All Dielectric, Single Jacket					
Part Number ¹	No. of Fibers	Fibers / Subunit	# of Positions	Nom. OD	Cable Bulk Weight
				Inch (mm)	lbs/kft (kg/km)
TT-*LF-002-HNNN	2	2	5	0.454 (11.5)	87 (129)
TT-*LF-004-HNNN	4	4	5	0.454 (11.5)	87 (129)
TT-*LF-006-HNNN	6	6	5	0.454 (11.5)	87 (129)
TT-*LG-008-HNNN	8	8	5	0.454 (11.5)	87 (129)
TT-*LG-012-HNNN	12	12	5	0.454 (11.5)	87 (129)
TT-*LG-024-HNNN	24	12	5	0.454 (11.5)	86 (128)
TT-*LG-036-HNNN	36	12	5	0.454 (11.5)	84 (125)

Aluminum Interlocked Armor, Double Jacket					
Part Number ¹	No. of Fibers	Fibers / Subunit	# of Positions	Nom. OD	Cable Bulk Weight
				Inch (mm)	lbs/kft (kg/km)
TT-*LF-002-HINN	2	2	5	0.805 (20.4)	253 (376)
TT-*LF-004-HINN	4	4	5	0.805 (20.4)	253 (376)
TT-*LF-006-HINN	6	6	5	0.805 (20.4)	253 (376)
TT-*LG-008-HINN	8	8	5	0.805 (20.4)	253 (376)
TT-*LG-012-HINN	12	12	5	0.805 (20.4)	253 (376)
TT-*LG-024-HINN	24	12	5	0.805 (20.4)	252 (375)
TT-*LG-036-HINN	36	12	5	0.805 (20.4)	250 (372)

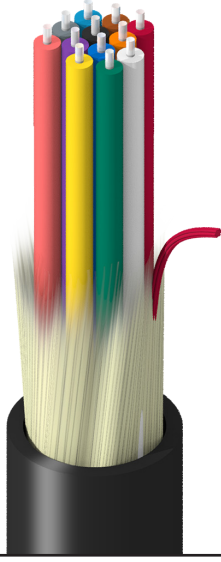
Corrugated Steel Tape Armor, Double Jacket					
Part Number ¹	No. of Fibers	Fibers / Subunit	# of Positions	Nom. OD	Cable Bulk Weight
				Inch (mm)	lbs/kft (kg/km)
TT-*LF-002-HTNN	2	2	5	0.630 (16.0)	178 (265)
TT-*LF-004-HTNN	4	4	5	0.630 (16.0)	178 (265)
TT-*LF-006-HTNN	6	6	5	0.630 (16.0)	178 (265)
TT-*LG-008-HTNN	8	8	5	0.630 (16.0)	178 (265)
TT-*LG-012-HTNN	12	12	5	0.630 (16.0)	178 (265)
TT-*LG-024-HTNN	24	12	5	0.630 (16.0)	177 (263)
TT-*LG-036-HTNN	36	12	5	0.630 (16.0)	176 (262)

¹ Substitute * with Fiber Grade Code

Glass Type	Fiber Grade Code (x)	Operating Wavelength (nm)	Attenuation (dB/km)	Min. OFL Bandwidth (MHz·km)	Min. Laser Bandwidth (MHz·km)	1 Gigabit Ethernet Min Link Length (m)	10 Gigabit Ethernet Min Link Length (m)
OS2 - Single Mode	S	1310/1550	0.4/0.3	-	-	5000/-	10,000/40,000
OM1 - 62.5/125µm Multi-Mode	1	850/1300	3.25/1.0	200/500	220/-	300/550	33/-
OM3 - 50/125µm Multi-Mode	3	850/1300	3.0/1.0	1500/500	2000/-	1000/550	300/-
OM4 - 50/125µm Multi-Mode	4	850/1300	3.0/1.0	3500/500	4700/-	1100/550	550/-

DataTuff™ Fiber Optic Transit Cables

Distribution Indoor/Outdoor
Low Smoke Zero Halogen (LSZH), NFPA 130 and 502 Compliant



Standards and Ratings

TIA/EIA-568.3-D
NEC/CEC OFNR-ST1/OFCR-ST1 FT4
ICEA S-104-696
ROHS II 2011/65/EU
REACH EC1907-2006

Temperature

-40°C to +70°C Static Operating
-40°C to +70°C Storage
-10°C to +60°C Installation

Materials

Fiber Colors	Per TIA/EIA 598-C
Fiber Buffer OD	900µm
Strength Member	Aramid Yarn
Central Strength Member	E-glass unitized only
Inner Jacket Material/Color	LSZH/Black optional
Armor	Aluminum Interlock optional
Outer Jacket Material/Color	LSZH/Black

Options

Black Jacket (Other Colors Available)

All Dielectric, Single Jacket				
Part Number ¹	No. of Fibers	Fibers / Subunit	Nom. OD	Cable Bulk Weight
			Inch (mm)	lbs/kft (kg/km)
TT-*D9-002-LNNN	2	Single Unit	0.184 (4.7)	14 (21)
TT-*D9-004-LNNN	4	Single Unit	0.200 (5.1)	17 (25)
TT-*D9-006-LNNN	6	Single Unit	0.220 (5.6)	20 (30)
TT-*D9-008-LNNN	8	Single Unit	0.235 (6.0)	23 (34)
TT-*D9-012-LNNN	12	Single Unit	0.290 (7.4)	30 (45)
TT-*D9-024-LNNN	24	Single Unit	0.360 (9.1)	44 (65)
TT-*DK-036-LNNN	36	12	0.688 (17.5)	162 (241)
TT-*DK-048-LNNN	48	12	0.688 (17.5)	158 (235)
TT-*DK-072-LNNN	72	12	0.823 (20.9)	235 (350)
TT-*DK-096-LNNN	96	12	0.977 (24.8)	350 (521)
TT-*DK-144-LNNN	144	12	1.100 (27.9)	376 (559)

Aluminum Interlocked Armor, Double Jacket				
Part Number ¹	No. of Fibers	Fibers / Subunit	Nom. OD	Cable Bulk Weight
			Inch (mm)	lbs/kft (kg/km)
TT-*D9-002-LINN	2	Single Unit	0.535 (13.6)	107 (159)
TT-*D9-004-LINN	4	Single Unit	0.550 (14.0)	114 (170)
TT-*D9-006-LINN	6	Single Unit	0.570 (14.5)	123 (183)
TT-*D9-008-LINN	8	Single Unit	0.585 (14.9)	129 (192)
TT-*D9-012-LINN	12	Single Unit	0.640 (16.3)	149 (222)
TT-*D9-024-LINN	24	Single Unit	0.710 (18.0)	181 (269)
TT-*DK-036-LINN	36	12	1.100 (27.9)	394 (586)
TT-*DK-048-LINN	48	12	1.100 (27.9)	389 (579)
TT-*DK-072-LINN	72	12	1.235 (31.4)	501 (745)
TT-*DK-096-LINN	96	12	1.390 (35.3)	653 (972)
TT-*DK-144-LINN	144	12	1.510 (38.4)	709 (1055)

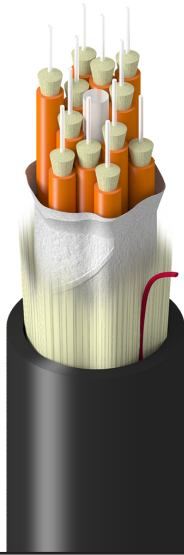
¹ Substitute * with Fiber Grade Code

Glass Type	Fiber Grade Code (x)	Operating Wavelength (nm)	Attenuation (dB/km)	Min. OFL Bandwidth (MHz-km)	Min. Laser Bandwidth (MHz-km)	1 Gigabit Ethernet Min Link Length (m)	10 Gigabit Ethernet Min Link Length (m)	Subunit Color
OS2 - Single Mode	S	1310/1550	0.5/0.5	-	-	5000/-	10,000/40,000	Yellow
OM1 - 62.5/125µm Multi-Mode	1	850/1300	3.5/1.25	200/500	220/-	300/550	33/-	Orange
OM3 - 50/125µm Multi-Mode	3	850/1300	3.0/1.0	1500/500	2000/-	1000/550	300/-	Aqua
OM4 - 50/125µm Multi-Mode	4	850/1300	3.0/1.0	3500/500	4700/-	1100/550	550/-	Erika Violet

DataTuff™ Fiber Optic Transit Cables

Breakout Indoor/Outdoor

Low Smoke Zero Halogen (LSZH), NFPA 130 and 502 Compliant



Standards and Ratings

TIA/EIA-568.3-D
NEC/CEC OFNR-ST1/OFNR-ST1 FT4
ICEA S-104-696
ROHS II 2011/65/EU
REACH EC1907-2006

Temperature

-40°C to +70°C Static Operating
-40°C to +70°C Storage
-10°C to +60°C Installation

Materials

Fiber Colors	Per TIA/EIA 598-C
Fiber Buffer OD	900µm
Subunit OD	2.0mm
Strength Member	Aramid Yarn
Central Strength Member	E-glass >6f only optional
Inner Jacket Material/Color	LSZH/Black
Armor	Aluminum Interlock optional
Outer Jacket Material/Color	LSZH/Black

Options

Black Jacket (Other Colors Available)

All Dielectric, Single Jacket			
Part Number ¹	No. of Fibers	Nom. OD	Cable Bulk Weight
		Inch (mm)	lbs/kft (kg/km)
TT-*BB-002-LNHN	2	0.260 (6.6)	27 (40)
TT-*BB-004-LNHN	4	0.321 (8.2)	38 (57)
TT-*BB-006-LNHN	6	0.358 (9.1)	61 (91)
TT-*BB-008-LNHN	8	0.435 (11.0)	79 (118)
TT-*BB-012-LNHN	12	0.540 (13.7)	125 (186)
TT-*BB-018-LNHN	18	0.530 (13.5)	118 (176)

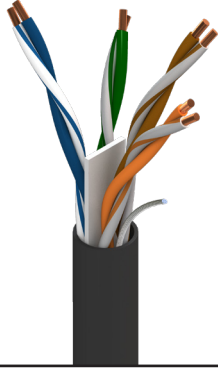
Aluminum Interlocked Armor, Double Jacket			
Part Number ¹	No. of Fibers	Nom. OD	Cable Bulk Weight
		Inch (mm)	lbs/kft (kg/km)
TT-*BB-002-LINN	2	0.610 (15.5)	144 (214)
TT-*BB-004-LINN	4	0.675 (17.1)	172 (256)
TT-*BB-006-LINN	6	0.710 (18.0)	203 (302)
TT-*BB-008-LINN	8	0.785 (20.0)	239 (356)
TT-*BB-012-LINN	12	0.950 (24.1)	321 (478)
TT-*BB-018-LINN	18	0.940 (23.9)	311 (463)

¹ Substitute * with Fiber Grade Code*

Glass Type	Fiber Grade Code (x)	Operating Wavelength (nm)	Attenuation (dB/km)	Min. OFL Bandwidth (MHz-km)	Min. Laser Bandwidth (MHz-km)	1 Gigabit Ethernet Min Link Length (m)	10 Gigabit Ethernet Min Link Length (m)	Subunit Colors
OS2 - Single Mode	S	1310/1550	0.5/0.5	-	-	5000/-	10,000/40,000	Yellow
OM1 - 62.5/125µm Multi-Mode	1	850/1300	3.5/1.25	200/500	220/-	300/550	33/-	Orange
OM3 - 50/125µm Multi-Mode	3	850/1300	3.0/1.0	1500/500	2000/-	1000/550	300/-	Aqua
OM4 - 50/125µm Multi-Mode	4	850/1300	3.0/1.0	3500/500	4700/-	1100/550	550/-	Erika Violet

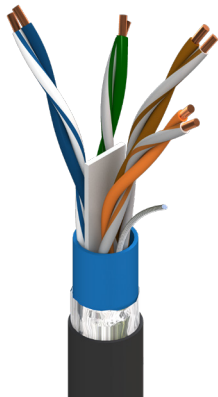
DataTuff® Industrial Ethernet

Low Smoke Zero Halogen NFPA 130 and 502 Compliant



23 AWG 4Pr DataTuff Cat 6 Unshielded							
Bonded Pair							
Part Number	Pairs	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
7940T*	4	0.295	7.49	0.024	0.61	42	63

*Pending UL LS test



23 AWG 4Pr DataTuff Cat 6 Shielded							
Bonded Pair							
Part Number	Pairs	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
7953T	4	0.487	12.4	0.060	1.5	110	164

Standards and Ratings

- TIA 568.2-D Category 6
- NFPA 130/502
- CSA CMG
- CMG-LS/ST1
- UL 1685 FT-4 / IEEE 1202
- RoHS

Temperature

- 40°C to 75°C* Static Operating
- 40°C to 75°C Storage
- 20°C to 75°C Installation
- * Subject to length de-rating at high temperatures

Materials

- Class B Bare Solid Copper Conductors
- Polyolefin Insulation
- Heat, Moisture, Oil and Sunlight Resistant LSZH Jacket
- Black Jacket (Other Colors Available)

RS-485 Cables

Low Smoke Zero Halogen NFPA 130 and 502 Compliant



22 AWG RS485							
Stranding: Tinned (7/30AWG) Insulation							
Part Number	Pairs	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
3105T*	1	0.450	11.4	0.125	3.17	102	152
3106T*	1.5	0.470	11.9	0.125	3.17	110	164
3107T*	2	0.494	12.5	0.125	3.17	120	179
3108T*	3	0.518	13.2	0.125	3.17	129	192

*Pending UL LS test

Standards and Ratings

- RS-485
- UL CMG-LS/ST1
- NFPA 130/502
- CSA CMG
- UL1685 FT-4/IEEE 1202
- RoHS

Materials

- Tinned Stranded Copper Conductors (7x30)
- Tinned Copper Braid with Foil Shield
- Heat, Moisture, Oil and Sunlight Resistant LSZH Jacket
- Black Jacket (Other Colors Available)

Other

- Suitable for USE per NFPA 70 Article 800

Belden Classic Electronics Cables

Low Smoke Zero Halogen 300V Shielded, NFPA 130 and 502 Compliant



Standards and Ratings

UL CMG-LS/ST1

NFPA 130/502

CSA CMG

UL 1685 FT-4/IEEE 1202

RoHS

Temperature

-40°C to 75°C Static Operating

-40°C to 75°C Storage

-20°C to 75°C Installation

Materials

LSZH Jackets

Polypropylene

Heat, Moisture, Oil and Sunlight Resistant

LSZH Jacket

Tinned Conductors

Other

Suitable for USE per NFPA 70 Article 800

Options

Tinned or Bare Strand

Fine Strand

Custom Colors and Print

Interlocking Steel or Aluminum Armor

22 AWG Shielded

Stranding: Tinned (7/30AWG)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
8761T	2	0.181	4.60	0.028	0.71	18	27
8771T	3	0.199	5.05	0.033	0.84	25	37
8729T*	4	0.231	5.87	0.038	0.97	46	68

*Denotes 19/34 AWG Stranding

20 AWG Shielded

Stranding: Tinned (7/28AWG)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
8762T	2	0.204	5.18	0.028	0.71	22	33
8772T	3	0.218	5.54	0.033	0.84	28	42
9402T	4 (2PR)	0.295	7.47	0.038	0.97	48	71
9873T	6 (3PR)	0.341	8.66	0.035	0.90	57	85

18 AWG Shielded

Stranding: Tinned (16/30AWG)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
8760T	2	0.222	5.64	0.028	0.71	25	37
8770T	3	0.246	6.25	0.033	0.84	36	54
9418T*	4	0.245	6.22	0.033	0.84	43	64
9773T*	3(PR)	0.404	10.3	0.035	0.90	83	124

*Denotes 19/30 AWG Stranding

16 AWG Shielded

Stranding: Tinned (19/29AWG)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
8719T	2	0.313	7.95	0.033	0.84	44	65
8618T	3	0.327	8.31	0.033	0.84	60	89

Belden Classic Electronics Cables

Low Smoke Zero Halogen 300V Unshielded, NFPA 130 and 502 Compliant



Standards and Ratings

UL CMG-LS/ST1
NFPA 130/502
CSA CMG
UL 1685 FT-4/IEEE 1202
RoHS

Temperature

-40°C to 75°C Static Operating
-40°C to 75°C Storage
-20°C to 75°C Installation

Materials

Sunlight Resistant LSZH Jacket
Polypropylene Insulation
Heat, Moisture and Oil Resistant

Other

Suitable for USE per NFPA 70 Article 800
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Options

Tinned or Bare Strand
Fine Strand
Custom Colors and Print
Interlocking Steel or Aluminum Armor

22 AWG Unshielded

Stranding: Tinned (7/30AWG)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
8442T	2	0.221	5.61	0.050	1.270	23	34
8443T	3	0.222	5.64	0.050	1.270	26	39
8444T	4	0.225	5.72	0.050	1.270	28	42

20 AWG Unshielded

Stranding: Tinned (7/28AWG)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
8205T	2	0.230	5.84	0.050	1.270	26	39
9443T	3	0.235	5.97	0.050	1.270	30	45
9444T	4	0.250	6.35	0.050	1.270	36	54

18 AWG Unshielded

Stranding: Tinned (16/30AWG)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
9740T	2	0.240	6.10	0.050	1.270	28	42
8463T*	3	0.244	6.20	0.050	1.270	47	70
8489T	4	0.296	7.52	0.050	1.270	53	79
9156T	2 (PR)	0.363	9.22	0.050	1.270	57	85
8467T	7	0.335	8.51	0.050	1.270	76	113
8690T	3 (PR)	0.373	9.47	0.050	1.272	73	109

*Denotes 41/34 AWG Tinned Stranding

16 AWG Unshielded

Stranding: Tinned (19/29AWG)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
8471T	2	0.310	7.88	0.050	1.270	45	67
8620T	4	0.412	10.5	0.050	1.270	93	138
9620T	5	0.427	10.8	0.050	1.270	106	158
9721T	8	0.500	12.7	0.050	1.270	151	225

14 AWG Unshielded

Stranding: Tinned (19/27AWG)

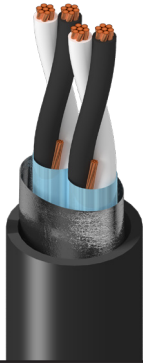
Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
8720T	2	0.385	9.78	0.050	1.270	74	110

12 AWG Unshielded

Stranding: Tinned (65/30AWG)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
8477T	2	0.416	10.60	0.050	1.270	91	135

Belden XLPE/LSZH Single and Multi-Paired 600/1000V Individually Shielded Pairs and Overall Shield NFPA 130/502 Control Cable



Standards and Ratings

UL 1277 TC-ER* -LS/ST1
 UL DIR BUR*
 ICEA S-73-532
 600/1000V XHHW-2 14 AWG and Larger
 600V 16 AWG and Smaller
 UL SUN RES
 NFPA 130/502
 UL 1685 FT4/IEEE 1202
 RoHS
 AREMA 10.3.13
 *3 Conductors or More

Temperature

-30°C to 90°C Wet/Dry
 -20°C to 50°C Installation
 130°C Overload Temp
 250°C Short Circuit Temp

Conductor Color Coding

ICEA S-73-532 Table E1 – Black
 White Numbered Pairs
 Black Jacket (Other Colors Available)

Materials

Class B Bare Copper Conductors
 XLPE-VW-1 Insulation Meeting XHHW-2
 Heat, Moisture, Oil and Sunlight Resistant
 LSZH Jacket

Other

Suitable for Class 1 Div 2 Hazardous
 Locations
 Excellent Chemical and Moisture Resistance
 Rip Cord

Options

Tinned Stranded Conductors
 Fine Strand
 Braid or Foil Shields
 Custom Colors and Print
 2000V Insulation Upgrade
 Suitable for USE per NFPA 70 Article 336

16 AWG Individual and Overall Shielded Pairs

Stranding: Bare (7/22AWG) Color Code: E1 (Black, White and Numbered)
 Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Pairs	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
SP1601BB	1	0.328	8.33	0.047	1.19	59	88
SP1602DB	2	0.560	14.2	0.062	1.57	133	198
SP1604DB	4	0.649	16.5	0.062	1.57	210	313
SP1608DB	8	0.874	22.2	0.084	2.13	402	598
SP1612DB	12	1.053	26.8	0.084	2.13	563	838
SP1624DB	24	1.448	36.8	0.084	2.13	1023	1522
SP1636DB	36	1.661	42.2	0.084	2.13	1452	2160

14 AWG Individual and Overall Shielded Pairs

Stranding: Bare (7/20AWG) Color Code: E1 (Black, White and Numbered)
 Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Pairs	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
SP1401BB	1	0.359	9.12	0.047	1.19	75	112
SP1402DB	2	0.618	15.7	0.062	1.57	170	253
SP1404DB	4	0.719	18.3	0.062	1.57	275	409
SP1408DB	8	0.968	24.6	0.084	2.13	527	784
SP1412DB	12	1.170	29.7	0.084	2.13	745	1109
SP1424DB	24	1.617	41.1	0.084	2.13	1373	2043
SP1436DB	36	1.911	48.5	0.110	2.79	2066	3074

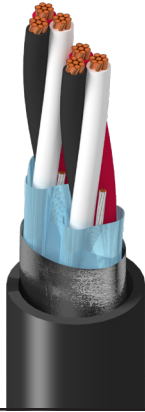
Belden XLPE/LSZH Single and Multi-Paired

12 AWG Individual and Overall Shielded Pairs

Stranding: Bare (7/18AWG) Color Code: E1 (Black, White and Numbered)
 Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Pairs	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
SP1201BB	1	0.399	10.1	0.047	1.19	100	149
SP1202DB	2	0.691	17.6	0.062	1.57	224	333
SP1204DB	4	0.807	20.5	0.062	1.57	371	552
SP1208DB	8	1.086	27.6	0.084	2.13	713	1061
SP1212DB	12	1.318	33.4	0.084	2.13	1017	1514

Belden XLPE/LSZH Single and Multi-Triad 600/1000V Individually Shielded Triads and Overall Shield NFPA 130/502 Control Cable



Standards and Ratings

UL 1277 TC-ER* -LS/ST1
UL DIR BUR*
ICEA S-73-532
600/1000V XHHW-2 14 AWG and Larger
600V 16 AWG and Smaller
UL SUN RES
NFPA 130/502
UL 1685 FT4/IEEE 1202
RoHS
AREMA 10.3.13
*3 Conductors or More

Temperature

-30°C to 90°C Wet/Dry
-20°C to 50°C Installation
130°C Overload Temp
250°C Short Circuit Temp

Conductor Color Coding

ICEA S-73-531 Table E1- Black White Red
Numbered Triads
Black Jacket (Other Colors Available)

Materials

Class B Bare Copper Conductors
XLPE-Insulation Meeting XHHW-2
Heat, Moisture, Oil and Sunlight Resistant
LSZH Jacket

Other

Suitable for Class 1 Div 2 Hazardous
Locations
Excellent Chemical and Moisture Resistance
Rip Cord

Options

Tinned Stranded Conductors
Fine Strand
Braid or Foil Shields
Custom Colors and Print

16 AWG Individual and Overall Shielded Triads

Stranding: Bare (7/22AWG) Color Code: E1 (Black, White, Red and Numbered)
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Triads	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
ST1601BB	1	0.346	8.79	0.047	1.19	75	112
ST1602DB	2	0.615	15.6	0.062	1.57	167	249
ST1604DB	4	0.716	18.2	0.062	1.57	273	249
ST1608DB	8	0.981	24.9	0.084	2.13	528	786
ST1612DB	12	1.19	30.2	0.084	2.13	747	1112
ST1624DB	24	1.64	41.7	0.084	2.13	1380	2054
ST1636DB	36	1.94	49.3	0.110	2.79	2076	3090

14 AWG Individual and Overall Shielded Triads

Stranding: Bare (7/20AWG) Color Code: E1 (Black, White, Red and Numbered)
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Triads	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
ST1401BB	1	0.379	9.63	0.047	1.19	96	143
ST1402DB	2	0.680	17.3	0.062	1.57	215	320
ST1404DB	4	0.794	19.0	0.062	1.57	359	534
ST1408DB	8	1.09	27.7	0.084	2.13	697	1037
ST1412DB	12	1.32	33.5	0.084	2.13	995	1481
ST1424DB	24	1.89	48.0	0.110	2.79	1955	2910

12 AWG Individual and Overall Shielded Triads

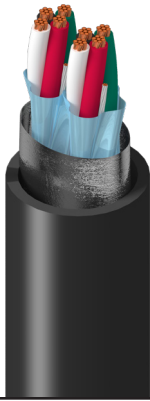
Stranding: Bare (7/18AWG) Color Code: E1 (Black, White, Red and Numbered)
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Triads	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
ST1201BB	1	0.422	10.7	0.047	1.19	128	190
ST1202DB	2	0.763	19.4	0.062	1.57	287	427
ST1204DB	4	0.937	23.8	0.084	2.13	529	787
ST1208DB	8	1.23	31.2	0.084	2.13	949	1412
ST1212DB	12	1.49	37.80	0.084	2.13	1366	2033

Belden XLPE/LSZH Single and Multi-Quad

600/1000V Individually Shielded Quads and Overall Shield

NFPA 130/502 Control Cable



Standards and Ratings

UL 1277 TC-ER-LS/ST1
UL DIR BUR*
ICEA S-73-532
600/1000V XHHW-2 14 AWG and Larger
600V 16 AWG and Smaller
UL SUN RES
NFPA 130/502
UL 1685 FT4/IEEE 1202
RoHS
AREMA 10.3.13
*3 Conductors or More

Temperature

-30°C to 90°C Wet/Dry
-20°C to 50°C Installation
130°C Overload Temp
250°C Short Circuit Temp

Conductor Color Coding

ICEA S-73-531 Table E1 – Black White Red Green Numbered Quads
Black Jacket (Other Colors Available)

Materials

Class B Bare Copper Conductors
XLPE Insulation Meeting XHHW-2
Heat, Moisture, Oil and Sunlight Resistant
LSZH Jacket

Other

Suitable for Class 1 Div 2 Hazardous Locations
Excellent Chemical and Moisture Resistance
Rip Cord

Options

Tinned Stranded Conductors
Fine Strand
Braid or Foil Shields
Custom Colors and Print

16 AWG Individual and Overall Shielded Quads

Stranding: Bare (7/22AWG) Color Code: E1 (Black, White, Red, Green and Numbered)
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Quads	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
SQ1601BB	1	0.420	10.7	0.047	1.19	101	150
SQ1602DB	2	0.710	18.0	0.062	1.57	210	312
SQ1604DB	4	0.866	22.0	0.062	1.57	402	598
SQ1608DB	8	1.17	29.7	0.084	2.13	715	1064
SQ1612DB	12	1.42	36.0	0.084	2.13	1023	1522

14 AWG Individual and Overall Shielded Quads

Stranding: Bare (7/20AWG) Color Code: E1 (Black, White, Red, Green and Numbered)
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Quads	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
SQ1401BB	1	0.460	11.7	0.047	1.19	139	207
SQ1402DB	2	0.822	20.9	0.062	1.57	263	391
SQ1404DB	4	0.965	24.5	0.084	2.13	503	749
SQ1408DB	8	1.29	32.8	0.084	2.13	904	1345
SQ1412DB	12	1.58	40.1	0.110	2.79	1301	1936

12 AWG Individual and Overall Shielded Quads

Stranding: Bare (7/18AWG) Color Code: E1 (Black, White, Red, Green and Numbered)
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Quads	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
SQ1201BB	1	0.505	12.8	0.062	1.57	184	274
SQ1202DB	2	0.920	23.4	0.084	2.13	354	527
SQ1204DB	4	1.08	27.4	0.084	2.13	679	1010
SQ1208DB	8	1.46	37.1	0.084	2.13	1240	1845
SQ1212DB	12	1.79	45.5	0.110	2.79	1780	2649

Belden XLPE/LSZH Unshielded Power, Signal and Control

600/1000V NFPA 130/502 Control Cable



Standards and Ratings

UL 1277 TC-ER -LS/ST1
UL DIR BUR*
ICEA S-73-532
ICEA S-95-658
600/1000V XHHW-2 Conductors
UL SUN RES
RoHS
NFPA 130/502
UL 1685 FT4/IEEE 1202
AREMA 10.3.13
*3 Conductors or More

Temperature

-30°C to 90°C Wet/Dry
-20°C to 50°C Installation
130°C Overload Temp
250°C Short Circuit Temp

Conductor Color Coding

ICEA S-73-532 Table E2 – 10 AWG and Smaller
ICEA S-73-532 Table M4 – 8 AWG and Larger
Black Jacket (Other Colors Available)

Materials

Class B Bare Copper Conductors
XLPE Insulation Meeting XHHW-2
Heat, Moisture, Oil and Sunlight Resistant LSZH Jacket

Other

Suitable for Class 1 Div 2 Hazardous Locations
Excellent Chemical and Moisture Resistance
Rip Cord

Options

Tinned Stranded Conductors
Fine Strand
Braid or Foil Shields
Custom Colors and Print

14 AWG with Ground

Stranding: Bare (7/22AWG) Color Code: E2
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
S02142G	2	0.346	9.042	0.047	1.194	82	122
S03142G	3	0.376	9.550	0.047	1.194	102	152
S04142G	4	0.410	10.414	0.047	1.194	124	185
S05142G	5	0.448	11.379	0.047	1.194	146	217
S07142G	7	0.487	12.370	0.047	1.194	187	278
S09142G	9	0.598	15.189	0.062	1.575	249	371
S12142G	12	0.668	16.967	0.062	1.575	314	467

12 AWG with Ground

Stranding: Bare (7/20AWG) Color Code: E2
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
S02122G	2	0.392	9.957	0.047	1.194	107	159
S03122G	3	0.414	10.516	0.047	1.194	136	202
S04122G	4	0.453	11.506	0.047	1.194	166	247
S05122G	5	0.496	12.598	0.047	1.194	196	292
S07122G	7	0.571	14.503	0.062	1.575	270	402
S09122G	9	0.663	16.840	0.062	1.575	334	497
S12122G	12	0.742	18.487	0.062	1.575	423	629

10 AWG with Ground

Stranding: Bare (7/18AWG) Color Code: E2
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
S02102G	2	0.440	11.176	0.047	1.194	150	223
S03102G	3	0.466	11.836	0.047	1.194	192	286
S04102G	4	0.511	12.979	0.047	1.194	236	351
S05102G	5	0.591	15.011	0.062	1.575	298	443
S07102G	7	0.643	16.332	0.062	1.575	384	571
S09102G	9	0.750	19.050	0.062	1.575	476	708
S12102G	12	0.886	22.504	0.084	2.134	645	960

Belden XLPE/LSZH Unshielded Power, Signal, and Control (Cont.)

600/1000V NFPA 130/502 Control Cable



Standards and Ratings

UL 1277 TC-ER -LS/ST1
UL DIR BUR*
ICEA S-73-532
ICEA S-95-658
600/1000V XHHW-2 Conductors
UL SUN RES
RoHS
NFPA 130/502
UL 1685 FT4/IEEE 1202
AREMA 10.3.13
*3 Conductors or More

Temperature

-30°C to 90°C Wet/Dry
-20°C to 50°C Installation
130°C Overload Temp
250°C Short Circuit Temp

Conductor Color Coding

ICEA S-73-532 Table E2 – 10 AWG and Smaller
ICEA S-73-532 Table M4 – 8 AWG and Larger
Black Jacket (Other Colors Available)

Materials

Class B Bare Copper Conductors
XLPE Insulation Meeting XHHW-2
Heat, Moisture, Oil and Sunlight Resistant
LSZH Jacket

Other

Suitable for Class 1 Div 2 Hazardous Locations
Excellent Chemical and Moisture Resistance
Rip Cord

Options

Tinned Stranded Conductors
Fine Strand
Braid or Foil Shields
Custom Colors and Print

8 AWG with Ground

Stranding: Bare (7/16AWG) Color Code: M4 Insulation Thickness: 0.045-XHHW-2 (1.143mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
S02084G	2	0.588	14.935	0.062	1.575	231	344
S03084G	3	0.623	15.824	0.062	1.575	301	448
S04084G	4	0.683	17.348	0.062	1.575	375	558

6 AWG with Ground

Stranding: Bare (7/14AWG) Color Code: M4 Insulation Thickness: 0.045-XHHW-2 (1.143)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
S02064G	2	0.668	16.967	0.062	1.575	328	488
S03064G	3	0.709	18.009	0.062	1.575	433	644
S04064G	4	0.780	19.812	0.062	1.575	543	808

4 AWG with Ground

Stranding: Bare (7/12AWG) Color Code: M4 Insulation Thickness: 0.045-XHHW-2 (1.143)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
S02044G	2	0.753	19.126	0.062	1.575	439	653
S03044G	3	0.801	20.345	0.062	1.575	596	887
S04044G	4	0.926	23.520	0.084	2.134	797	1186

Belden XLPE/LSZH Shielded Power, Signal, and Control 600/1000V NFPA 130/502 Control Cable



Standards and Ratings

UL 1277 TC-ER-LS/ST1
 UL DIR BUR*
 ICEA S-73-532
 ICEA S-95-658
 600/1000V XHHW-2 Conductors
 NFPA 130/502
 UL 1685 FT4/IEEE 1202
 RoHS
 AREMA 10.3.13
 *3 Conductors or More

Temperature

-30°C to 90°C Wet/Dry
 130°C Overload Temp
 250°C Short Circuit Temp

Conductor Color Coding

ICEA S-73-532 Table E2 - 10 AWG and Smaller
 ICEA S-73-532 Table M4 - 8 AWG and Larger
 Black Jacket (Other Colors Available)

Materials

Class B Tinned Copper Conductors
 XLPE Insulation Meeting XHHW-2
 Heat, Moisture, Oil and Sunlight Resistant
 LSZH Jacket

Other

Suitable for Class 1 Div 2 Hazardous Locations
 AL Foil/Mylar Shield with Tinned Copper Drain

Options

Tinned Stranded Conductors
 Fine Strand
 Braid Shields
 Custom Colors and Print
 1000V/2000V Insulation Upgrade

14 AWG with Ground + Foil Shield

Stranding: Tinned (7/22AWG) Color Code: E2
 Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0914KG	9	0.613	15.570	0.062	1.575	293	436
T1211KG	12	0.683	17.348	0.062	1.575	364	542

12 AWG with Ground + Foil Shield

Stranding: Tinned (7/20AWG) Color Code: E2
 Insulation thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0912KG	9	0.678	17.221	0.062	1.575	384	571
T1212KG	12	0.757	19.228	0.062	1.575	480	714

10 AWG with Ground + Foil Shield

Stranding: Tinned (7/18AWG) Color Code: E2
 Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0510KG	5	0.606	15.392	0.062	1.575	341	507
T0710KG	7	0.658	16.713	0.062	1.575	431	641
T0910KG	9	0.765	19.431	0.062	1.575	534	795
T1210KG	12	0.901	22.885	0.084	2.134	712	1060

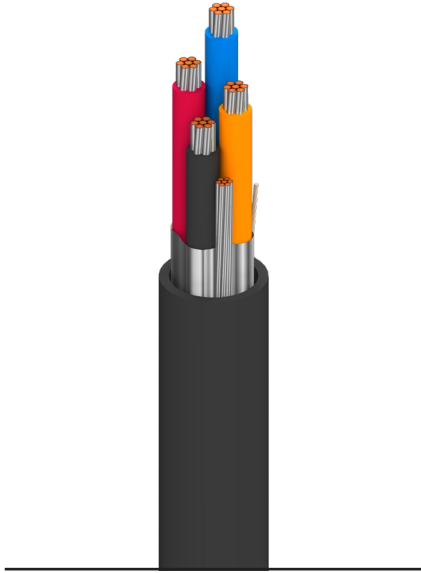
8 AWG with Ground + Foil Shield

Stranding: Tinned (7/16AWG) Color Code: M4
 Insulation Thickness: 0.045-XHHW-2 (1.143mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0208LG	2	0.603	15.316	0.062	1.575	274	408
T0308LG	3	0.638	16.205	0.062	1.575	347	516
T0408LG	4	0.698	17.729	0.062	1.575	426	634

Belden XLPE/LSZH Shielded Power, Signal, and Control (Cont.)

600V/1000C NFPA 130/502 Control Cable



6 AWG with Ground + Foil Shield

Stranding: Tinned (7/14AWG) Color Code: M4
Insulation Thickness: 0.045-XHHW-2 (1.143mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0206LG	2	0.683	17.348	0.062	1.575	378	563
T0306LG	3	0.724	18.390	0.062	1.575	487	725
T0406LG	4	0.795	20.193	0.062	1.575	603	897

4 AWG with Ground + Foil Shield

Stranding: Tinned (7/12AWG) Color Code: M4
Insulation Thickness: 0.045-XHHW-2 (1.143mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0204LG	2	0.768	19.507	0.062	1.575	497	740
T0304LG	3	0.816	20.726	0.062	1.575	658	979
T0404LG	4	0.941	23.901	0.084	2.134	866	1289

Belden XLPE/LSZH 5 Mil LCS Shielded Power, Signal and Control 600/1000V NFPA 130/502 Control Cable



5Mil longitudinally applied corrugated copper tape shields provide a smooth cable finish and excellent roundness for superior sealing in glands

Standards and Ratings

UL 1277 TC-ER-LS/ST1
UL DIR BUR*
ICEA S-73-532
ICEA S-95-658
600/1000V XHHW-2 Conductors
NFPA 130/502
UL 1685 FT4/IEEE 1202
RoHS
*3 Conductors or More

Temperature

-30°C to 90°C Wet/Dry
130°C Overload Temp
250°C Short Circuit Temp

Conductor Color Coding

ICEA S-73-532 Table E2 – 10 AWG and Smaller
ICEA S-73-532 Table M4 – 8 AWG and Larger
Black Jacket (Other Colors Available)

Materials

Class B Tinned Copper Conductors
XLPE Insulation Meeting XHHW-2
Heat, Moisture, Oil and Sunlight Resistant LSZH Jacket

Other

Suitable for Class 1 Div 2 Hazardous Locations
0.005" Longitudinally Applied and Corrugated Copper Tape

Options

Tinned or Bare Stranded Conductors
Fine Strand
Helical Copper Tape Shields
Custom Colors and Print
1000V/2000V Insulation Upgrade

14 AWG with Ground + 5 Mil Longitudinal Copper Shield

Stranding: Tinned (7/22AWG) Color Code: E2
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0214HG	2	0.396	10.058	0.047	1.194	109	162
T0314HG	3	0.416	10.566	0.047	1.194	131	195
T0414HG	4	0.450	11.430	0.047	1.194	156	232
T0514HG	5	0.488	12.395	0.047	1.194	182	271
T0714HG	7	0.557	14.148	0.062	1.575	242	360
T0914HG	9	0.638	16.205	0.062	1.575	296	440
T1214HG	12	0.708	17.983	0.062	1.575	367	546

12 AWG with Ground + 5 Mil Longitudinal Copper Shield

Stranding: Tinned (7/20AWG) Color Code: E2
Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0212HG	2	0.432	10.973	0.047	1.194	137	204
T0312HG	3	0.454	11.532	0.047	1.194	168	250
T0412HG	4	0.493	12.522	0.047	1.194	201	299
T0512HG	5	0.566	14.376	0.062	1.575	252	375
T0712HG	7	0.611	15.519	0.062	1.575	315	469
T0912HG	9	0.703	17.856	0.062	1.575	387	576
T1212HG	12	0.782	19.863	0.062	1.575	483	719

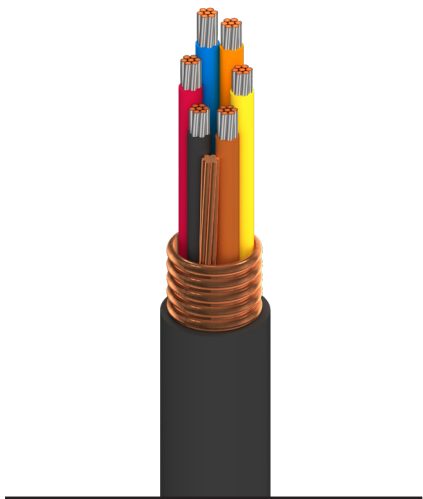
10 AWG with Ground + 5 Mil Longitudinal Copper Shield

Stranding: Tinned (7/18AWG) Color Code: E2 Insulation Thickness: 0.030-XHHW-2 (0.762mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0210HG	2	0.480	12.192	0.047	1.194	184	274
T0310HG	3	0.506	12.852	0.047	1.194	229	341
T0410HG	4	0.581	14.757	0.062	1.575	294	438
T0510HG	5	0.631	16.027	0.062	1.575	344	512
T0710HG	7	0.683	17.348	0.062	1.575	435	647
T0910HG	9	0.907	22.000	0.062	1.575	537	799
T1210HG	12	0.926	23.520	0.084	2.134	716	1065

Belden XLPE/LSZH 5 Mil LCS Shielded Power, Signal and Control (Cont.)

600/1000V NFPA 130/502 Control Cable



8 AWG with Ground + 5 Mil Longitudinal Copper Shield

Stranding: Tinned (7/16AWG) Color Code: M4
Insulation Thickness: 0.045-XHHW-2 (1.143mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0208IG	2	0.628	15.951	0.062	1.575	277	412
T0308IG	3	0.663	16.840	0.062	1.575	350	521
T0408IG	4	0.723	18.364	0.062	1.575	429	638

6 AWG with Ground + 5 Mil Longitudinal Copper Shield

Stranding: Tinned (7/14AWG) Color Code: M4
Insulation Thickness: 0.045-XHHW-2 (1.143mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0206IG	2	0.708	17.983	0.062	1.575	381	567
T0306IG	3	0.749	19.025	0.062	1.575	490	729
T0406IG	4	0.820	20.828	0.062	1.575	606	902

4 AWG with Ground + 5 Mil Longitudinal Copper Shield

Stranding: Tinned (7/12AWG) Color Code: M4
Insulation Thickness: 0.045-XHHW-2 (1.143mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness		Approximate Weight	
		Inch	mm	Inch	mm	lbs/1000ft	kg/km
T0204IG	2	0.793	20.142	0.062	1.575	500	744
T0304IG	3	0.885	22.479	0.084	2.134	700	1042
T0404IG	4	0.966	24.536	0.084	2.134	871	1296



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