

INDUSTRIAL



SERVING INDUSTRIAL, SPECIALTY AND
COMMERCIAL APPLICATIONS
MARCH 2012

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Industrial

Servicing Industrial, Commercial and Specialty Applications

This catalog contains in-depth information on the most comprehensive line of instrumentation, power and control cable available today. It features the latest information on products, along with detailed technical and specification data in indexed sections — with an easy-to-use “spec-on-a-page” format.

The “spec-on-a-page” format was developed to meet your needs. It features up-to-the-minute product information, from applications and constructions to detailed technical and specification data. There’s also a glossary of technical terms for additional assistance.

And, of course, if you need any further data, General Cable’s Customer Service staff provides the answers you need quickly and efficiently.



All information in this catalog is presented solely as a guide to product selection and is believed to be reliable. All printing errors are subject to correction in subsequent releases of this catalog. Although General Cable has taken precautions to ensure the accuracy of the product specifications at the time of publication, the specifications of all products contained herein are subject to change without notice.

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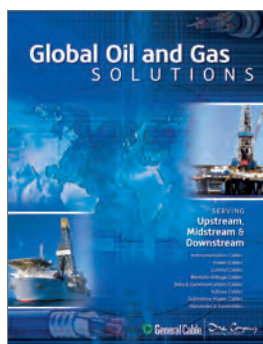
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COPPER BUILDING WIRE



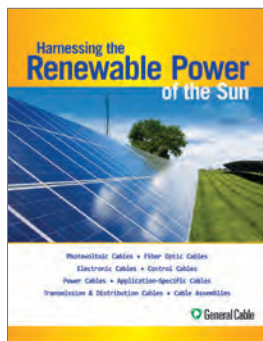
General Cable’s reintroduction of a Building Wire product line expands and enhances its current industrial offering with a broader spectrum of copper products that range from 600 to 2,000 volts. Our product portfolio supports both commercial and residential construction markets, while delivering the same product quality, manufacturing expertise and service that our customers have always received from General Cable.

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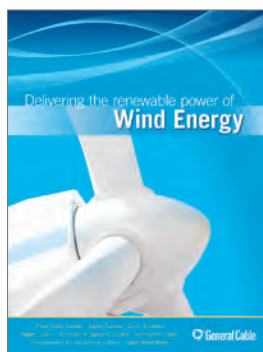
From exploration and extraction to production and processing of natural resources, General Cable’s products satisfy virtually every cabling requirement around the globe.

HARNESSING THE RENEWABLE POWER OF THE SUN



General Cable has the offering to comprise a complete cable solution for solar power applications. From low-voltage DC and AC connections and medium-voltage distribution to high-voltage overhead and underground transmission lines, General Cable’s range of products is engineered to withstand the demands of *entire* solar power generation, transmission and distribution systems — from the sun to the outlet.

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General Cable has the offering to comprise a complete cable solution for wind power applications. From optical fiber and grounding wires for SCADA systems, low-voltage DC and AC connections and medium-voltage distribution to high-voltage overhead, underground and submarine transmission lines, General Cable has the range of products engineered to withstand the demands of *entire* wind power generation, transmission and distribution systems — from the wind to the outlet.

PRODUCT SELECTION LOCATOR

SECTION	SPECIFICATION
1	300 V Instrumentation Cables 1000
2	600 V Instrumentation Cables 2000
3	600 V Flexible Control and Power Cables 3000
4	600 V Multi-Conductor Control and Power Cables 4000
5	600 V – 2 kV Industrial Power Cables 5000
6	2.4 kV – 35 kV Industrial Medium-Voltage Cables 6000
7	600 V – 35 kV Industrial Armored Cables 7000
8	600 V – 28 kV TECK90 Armored Control and Power Cables 8000
9	300 V – 35 kV CCW [®] Armored Cables for Hazardous Locations 9000
Technical Information	A – F

Table of Contents

Date of Issue 03/12

Section 1 300 V Instrumentation Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
1050	CHTC® XLPE/XL-CPE, Instrumentation, Shielded 300 V, UL Type PLTC, Overall Shielded Pairs/Triads	Mar. 2012
1100	CHTC® XLPE/XL-CPE, Instrumentation, Shielded 300 V, UL Type PLTC, Individual and Overall Shielded Pairs	Mar. 2012
1150	CVTC® XLPE/PVC, Instrumentation, Shielded 300 V, UL Type PLTC, Overall Shielded Pairs/Triads	Mar. 2012
1200	CVTC® XLPE/PVC, Instrumentation, Shielded 300 V, UL Type PLTC, Individual and Overall Shielded Pairs	Mar. 2012
1250†	PVIC® PVC/PVC, Instrumentation, Shielded 300 V, UL Type PLTC/ITC, Overall Shielded Pairs/Triads	Mar. 2012
1300†	PVIC® PVC/PVC, Instrumentation, Shielded 300 V, UL Type PLTC/ITC, Individual and Overall Shielded Pairs	Mar. 2012
1350	PVIC® PVC/PVC, Instrumentation, Shielded 300 V, UL Type PLTC/ITC, Individual and Overall Shielded Triads	Mar. 2012

Section 2 600 V Instrumentation Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
2050†	CHTC® XLPE/XL-CPE, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Pairs/Triads	Mar. 2012
2100†	FREP® FR-EPR/CPE, Instrumentation, Shielded 600 V, UL Type TC, Overall Shielded Pairs/Triads	Mar. 2012
2150†	FREP® FR-EPR/CPE, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Pairs	Mar. 2012
2200	FREP® FR-EPR/CPE, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Triads	Mar. 2012
2250	Arctic-Flex® XLPE/ARCTIC-PVC, Instrumentation, Shielded 600 V, UL Type TC, CSA Type CIC, Overall Shielded Pairs/Triads	Mar. 2012
2300	Arctic-Flex® XLPE/ARCTIC-PVC, Instrumentation, Shielded 600 V, UL Type TC, CSA Type CIC, Individual and Overall Shielded Pairs	Mar. 2012
2350	CVTC® XLPE/PVC, Instrumentation, Shielded 600 V, UL Type TC, Overall Shielded Pairs/Triads	Mar. 2012
2400	CVTC® XLPE/PVC, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Pairs	Mar. 2012
2450†	VNTC® PVC/Nylon/PVC, Instrumentation, Shielded 600 V, UL Type TC, Overall Shielded Pairs/Triads	Mar. 2012
2500†	VNTC® PVC/Nylon/PVC, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Pairs	Mar. 2012
2600†	GenFree® XLPE/LSZH, Instrumentation, Shielded 600 V, UL Type TC-LS, Overall Shielded Pairs/Triads	Mar. 2012
2625†	GenFree® XLPE/LSZH, Instrumentation, Shielded 600 V, UL Type TC-LS, Individual and Overall Shielded Pairs	Mar. 2012
2650	GenFree® XLPE/LSZH, Instrumentation, Shielded 600 V, UL Type TC-LS, Individual and Overall Shielded Triads	Mar. 2012



Table of Contents

Date of Issue 03/12

Section 3 600 V Flexible Control and Power Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
3150	NVN® PVC/Nylon/Neoprene, Thermoset Flexible Control 600 V, UL Type TC	Jan. 2010
3250	MTW PVC/Nylon/PVC, Thermoplastic Flexible Control 600 V, UL Type MTW/CSA AWM	Jan. 2010
3300	Festoon PVC/PVC, Thermoplastic Extreme Flexing Festoon Control and Power 600 V, UL/CSA Type Festoon	Jan. 2010

Section 4 600 V Multi-Conductor Control and Power Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
4050†	CHTC® XLPE/XL-CPE, Control, Unshielded 600 V, UL Type TC—E-2 Color Code	Mar. 2012
4075†	CHTC® XLPE/XL-CPE, Control, Unshielded 600 V, UL Type TC—E-1 Color Code	Mar. 2012
4100†	CHTC® XLPE/XL-CPE, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4150	EHTC® FR-EPR/XL-CPE, Control, Unshielded 600 V, UL Type TC (18 AWG/16 AWG)—E-2 Color Code	Mar. 2012
4200	EHTC® FR-EPR/XL-CPE, Control, Unshielded 600 V, UL Type TC (14 AWG—10 AWG)—E-2 Color Code	Mar. 2012
4250	EHTC® FR-EPR/XL-CPE, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4300†	FREP® FR-EPR/CPE, Control, Unshielded 600 V, UL Type TC-ER—E-2 Color Code	Mar. 2012
4310†	FREP® FR-EPR/CPE, Control, Unshielded 600 V, UL Type TC-ER—E-1 Color Code	Mar. 2012
4325†	FREP® FR-EPR/CPE, Control, Shielded 600 V, UL Type TC-ER, Overall Shielded—E-2 Color Code	Mar. 2012
4350†	FREP® FR-EPR/CPE, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4400	Arctic-Flex® XLPE/Arctic-PVC, Control, Unshielded 600 V, UL Type TC-ER, CSA Type RW90 XLPE, CSA Type TC	Mar. 2012
4450	Arctic-Flex® XLPE/Arctic-PVC, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER, CSA Type RW90 XLPE, CSA Type TC	Mar. 2012
4460†	CCTC™ FR-XLPE/CPE, Control, Shielded 600 V, UL Type TC-ER—E-1 Color Code	Mar. 2012
4480†	CCTC™ FR-XLPE/CPE, Low-Voltage Power, Shielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4500†	CVTC® XLPE/PVC, Control, Unshielded 600 V, UL Type TC-ER—E-2 Color Code	Mar. 2012
4550†	CVTC® XLPE/PVC, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4575	CVTC® VFD XLPE/PVC, Low-Voltage Power, Shielded 2000 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4580†	CVTC® VFD XLPE/PVC, Low-Voltage Power, Copper Tape Shielded 2000 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4600†	VNTC® PVC/Nylon/PVC, Control, Unshielded 600 V, UL Type TC-ER (18 AWG/16 AWG)—E-2 Color Code	Mar. 2012

†Indicates these products are stocked by General Cable

Table of Contents

Date of Issue 03/12

Section 4 (cont'd.) 600 V Multi-Conductor Control and Power Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
4650† VNTC®	PVC/Nylon/PVC, Control, Unshielded 600 V, UL Type TC-ER (14 AWG—10 AWG)—E-2 Color Code	Mar. 2012
4700† VNTC®	PVC/Nylon/PVC, Control, Shielded 600 V, UL Type TC-ER, Overall Shielded—E-2 Color Code	Mar. 2012
4750† VNTC®	PVC/Nylon/PVC, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4800 20/10	PE/PVC/PVC, Control, Unshielded 600 V (18 AWG/16 AWG)—E-1 Color Code	Jul. 2010
4850 20/10	PE/PVC/PVC, Control, Unshielded 600 V (14 AWG—10 AWG)—E-1 Color Code	Jul. 2010
4900† GenFree®	XLPE/LSZH, Control 600 V, UL Type TC-LS-ER—E-2 Color Code	Jun. 2012
4925 GenFree®	XLPE/LSZH, Control, Shielded 600 V, UL Type TC-LS-ER, Overall Shielded—E-2 Color Code	Jun. 2012
4950† GenFree®	XLPE/LSZH, Low-Voltage Power, Unshielded 600 V, UL Type TC-LS-ER—Method 4 Color Code	Jun. 2012

Section 5 600 V – 2 kV Industrial Power Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
5050† DuraSheath®	EPR/XL-CPE, Low-Voltage Power, Unshielded 600 V, UL Type RHH/RHW-2/USE-2	Mar. 2012
5100 Unicon® FREP®	FR-EPR, Low-Voltage Power, Unshielded 600 V, UL Type RHH/RHW-2/USE-2	Jan. 2010
5150† XHHW-2 VW-1	XLPE, Control and Low-Voltage Power 600 V, UL Type SIS/XHHW-2, VW-1 Rated	Jan. 2012
5175† XHHW-2 CT	XLPE, Low-Voltage Power 600 V, UL Type XHHW-2, CT Rated, Single Conductor, Copper	LOW FRICTION Jan. 2013
5250† Unicon® XLPE	XLPE, Low-Voltage Power 600 V, UL Type RHH/RHW-2/USE-2	Jan. 2012
5290† THHN/THWN-2	PVC, Low-Voltage Power 600 V, Type THHN/THWN-2, Single Conductor, Copper	LOW FRICTION Jan. 2012
5300 Super Vu-Tron®	EPR/CPE, Diesel Locomotive Cable 90°C, 2000 V, DLO, UL Type RHH/RHW, 600 V, CSA Type R90, 1000 V	Mar. 2012
5310† Diesel Locomotive Cable	2000 Volts (EPR/XL-CPE), UL RHH/RHW-2 2000 V and C(UL) RW90 1000 V Flexible, Oil-, Sunlight- and Ozone-Resistant, Flame-Retardant, -40°C to 90°C	Apr. 2012
5350† GenFree® LSZH	XLPE, Low-Smoke, Zero-Halogen (LSZH), Low-Voltage Power, Unshielded 600 V, Type RHH/RHW-LS/USE, CSA AWM I A/B, Class B	Nov. 2012
5400 GenFree® LSZH	XLPE, Low-Smoke, Zero-Halogen (LSZH), Low-Voltage Power, Unshielded 600 V, Type RHH/RHW-LS/USE, CSA AWM I A/B, Class I	Nov. 2012
5700† RHH/RHW-2	XLPE, Low-Voltage Power, Unshielded 2000 V, UL Type RHH/RHW-2, Single Conductor, Aluminum	Mar. 2012
5800† SunGen®	Dual-Layer EPR/XL-CPE, Photovoltaic Wire 600 V, UL Type PV/USE-2/RHH or RHW-2, Single Conductor, Copper	May 2012
5800A SunGen®	Dual-Layer EPR/XL-CPE, Photovoltaic Wire 600 V, UL Type PV/USE-2/RHH or RHW-2, Single Conductor, Aluminum	May 2012
5810† SunGen®	Dual-Layer EPR/XL-CPE, Photovoltaic Wire 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2, Single Conductor, Copper	May 2012
5810A SunGen®	Dual-Layer EPR/XL-CPE, Photovoltaic Wire 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2, Single Conductor, Aluminum	May 2012



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Table of Contents

Date of Issue 03/12

Section 5 (cont'd.) 600 V – 2 kV Industrial Power Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
5840 [†]	SunGen® XLPE, Photovoltaic Wire 600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or CSA RPVU90 1000 V, Single Conductor, Copper	May 2012
5840A	SunGen® XLPE, Photovoltaic Wire 600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or CSA RPVU90 1000 V, Single Conductor, Aluminum	May 2012
5845 [†]	SunGen® IC XLPE, Photovoltaic Wire 600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or CSA RPVU90 1000 V, Single Conductor, Copper	May 2012
5850 [†]	SunGen® XLPE, Photovoltaic Wire 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 or CSA RPVU90 1000 V, Single Conductor, Copper	May 2012
5850A	SunGen® XLPE, Photovoltaic Wire 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 or CSA RPVU90 1000 V, Single Conductor, Aluminum	May 2012
5855 [†]	SunGen® IC XLPE, Photovoltaic Wire 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 or CSA RPVU90 1000 V, Single Conductor, Copper	May 2012
5880 [†]	SunGen® MI XLPE/PVC, AC Micro-Inverter Cable 600 V, UL Type TC-ER	May 2012
5890 [†]	SunGen® MI-LS XLPO/LSZH, AC Micro-Inverter Cable 600 V, UL Type TC-LS-ER	May 2012

Section 6 2.4 kV – 35 kV Industrial Medium-Voltage Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
6050 [†]	DuraSheath® EPR/XL-CPE, Medium-Voltage Power, Nonshielded 2400 V, UL Type MV-90	Aug. 2011
6100 [†]	UniShield® EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Jan. 2011
6150	Uniblend® EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Mar. 2012
6155 [†]	Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Mar. 2012
6160 [†]	Aluminum Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Mar. 2012
6175	Uniblend® EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Mar. 2012
6180 [†]	GenFree® Uniblend® EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105/ST1, 133%/100% Ins. Levels, 115 Mils	Mar. 2012
6200	Copper Wire Shield TRXLPE/Copper Wire Shield/PVC, Medium-Voltage Power 5 kV, UL Type MV-105, 100% Ins. Level, 90 Mils	Jan. 2011
6250	Uniblend® EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 5 kV and 8 kV, UL Type MV-105 133%/100% Ins. Levels, 115 Mils, Three Conductor	Mar. 2012
6255 [†]	Uniblend® LF EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 5 kV and 8 kV, UL Type MV-105 133%/100% Ins. Levels, 115 Mils, Three Conductor	Mar. 2012
6275	Uniblend® EPR/Copper Tape Shield with Overall CPE Jacket Medium-Voltage Power, Shielded, 5 kV and 8 kV, UL Type MV-105 133%/100% Ins. Levels, 115 Mils, Three Conductor	Mar. 2012

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Table of Contents

Date of Issue 03/12

Section 6 (cont'd.) 2.4 kV – 35 kV Industrial Medium-Voltage Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
6280	GenFree® Uniblend® EPR/Copper Tape Shield with Overall LSZH Jacket Medium-Voltage Power, Shielded, 5 kV and 8 kV, UL Type MV-105 133%/100% Ins. Levels, 115 Mils, Three Conductor	Mar. 2012
6300†	UniShield® EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Jan. 2011
6350	Uniblend® EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Mar. 2012
6355†	Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Apr. 2011
6360†	Aluminum Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Apr. 2011
6375	Uniblend® EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Apr. 2011
6380†	GenFree® Uniblend® EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105/ST1, 133% Ins. Level, 220 Mils	Mar. 2012
6400	Copper Wire Shield TRXLPE/Copper Wire Shield/PVC, Medium-Voltage Power 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Jan. 2011
6450	Uniblend® EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 15 kV, UL Type MV-105 133% Ins. Level, 220 Mils, Three Conductor	Mar. 2012
6455†	Uniblend® LF EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 15 kV, UL Type MV-105 133% Ins. Level, 220 Mils, Three Conductor	Mar. 2012
6475	Uniblend® EPR/Copper Tape Shield with Overall CPE Jacket Medium-Voltage Power, Shielded, 15 kV, UL Type MV-105 133% Ins. Level, 220 Mils, Three Conductor	Mar. 2012
6480	GenFree® Uniblend® EPR/Copper Tape Shield with Overall LSZH Jacket Medium-Voltage Power, Shielded, 15 kV, UL Type MV-105 133% Ins. Level, 220 Mils, Three Conductor	Mar. 2012
6500	UniShield® EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Jan. 2011
6550	Uniblend® EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Mar. 2012
6555†	Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Mar. 2012
6560	Aluminum Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Mar. 2012
6575	Uniblend® EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Mar. 2012
6580	GenFree® Uniblend® EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105/ST1, 133%/100% Ins. Levels, 345 Mils	Mar. 2012
6600	Uniblend® EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 25 kV and 35 kV, UL Type MV-105 133%/100% Ins. Levels, 345 Mils, Three Conductor	Mar. 2012
6605	Uniblend® LF EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 25 kV and 35 kV, UL Type MV-105 133%/100% Ins. Levels, 345 Mils, Three Conductor	Mar. 2012
6650	Uniblend® EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils	Apr. 2011



Table of Contents

Date of Issue 03/12

Section 6 (cont'd.) 2.4 kV – 35 kV Industrial Medium-Voltage Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
6655	Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils	Apr. 2011
6660	Aluminum Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils	Apr. 2011

Section 7 600 V – 35 kV Industrial Armored Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
7050†	Duralox® XLPE/AIA/PVC, Control, Armored 600 V, UL Type MC, Multi-Conductor	Jan. 2010
7100†	Duralox® XLPE/AIA/PVC, Power, Armored 600 V, UL Type MC, Three and Four Conductor (8 AWG - 4/0 AWG)	Mar. 2012
7150†	Duralox® XLPE/AIA/PVC, Power, Armored 600 V, UL Type MC, Three and Four Conductor (250 kcmil - 1000 kcmil)	Jan. 2010
7160†	Duralox® XLPE/AIA/PVC, Power, Armored, with Enhanced Ground Wires (50%) 600 V, UL Type MC, Three Conductor (1/0 AWG - 1000 kcmil)	Jan. 2010
7200†	Duralox® EPR/AIA/PVC, Power, Nonshielded, Armored 2400 V, UL Type MV-90 or MC, Three Conductor	Jan. 2010
7250†	Duralox® Uniblend® EPR/AIA/PVC, Power, Shielded, Armored 5 kV/8 kV, UL Type MV-105 or MC, 133%/100% Ins. Levels, 115 Mils, Three Conductor	Aug. 2010
7300†	Duralox® Uniblend® EPR/AIA/PVC, Power, Shielded, Armored 15 kV, UL Type MV-105 or MC, 133% Ins. Level, 220 Mils, Three Conductor	Aug. 2010
7310†	Duralox® Uniblend® EPR/AIA/PVC, Power, Shielded, Armored, with Enhanced Ground Wires (50%) 15 kV, UL Type MV-105 or MC, 133% Ins. Level, 220 Mils, Three Conductor	Aug. 2010
7350	Duralox® Uniblend® EPR/AIA/PVC, Power, Shielded, Armored 25 kV, UL Type MV-105 or MC, 100% Ins. Level, 260 Mils, Three Conductor	Aug. 2010
7400	Duralox® Uniblend® EPR/AIA/PVC, Power, Shielded, Armored 35 kV, UL Type MV-105 or MC, 100% Ins. Level, 345 Mils, Three Conductor	Aug. 2010

Section 8 600 V – 28 kV TECK90 Armored Control and Power Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
8025†	TECK90 XLPE/PVC/AIA/PVC, Control, Armored 600 V, CSA TECK90, Multi-Conductor, 14 AWG	Mar. 2012
8050†	TECK90 XLPE/PVC/AIA/PVC, Control, Armored 600 V, CSA TECK90, Multi-Conductor, 12 AWG	Mar. 2012
8075†	TECK90 XLPE/PVC/AIA/PVC, Control, Armored 600 V, CSA TECK90, Multi-Conductor, 10 AWG	Mar. 2012
8100	TECK90 XLPE/PVC/AIA/PVC, Power, Armored 1000 V, CSA TECK90, Single Conductor	Mar. 2012
8125	TECK90 XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V, CSA TECK90, Two Conductor	Mar. 2012
8150†	TECK90 XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V, CSA TECK90, Three Conductor	Mar. 2012
8175†	TECK90 XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V, CSA TECK90, Four Conductor	Mar. 2012
8200	TECK90 XLPE/PVC/AIA/PVC, Power/Control Composite 600 V, CSA TECK90, Three Power and Three 14 AWG Control Conductors	Mar. 2012
8225	TECK90 XLPE/PVC/AIA/PVC, Power, Unshielded, Armored 5 kV, CSA TECK90, 100%/133% Ins. Levels, Single Conductor	Mar. 2012

†Indicates these products are stocked by General Cable

Table of Contents

Date of Issue 03/12

Section 8 (cont'd.) 600 V – 28 kV TECK90 Armored Control and Power Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
8250[†]	TECK90 XLPE/PVC/AIA/PVC, Power, Unshielded, Armored 5 kV, CSA TECK90, 100%/133% Ins. Levels, Three Conductor	Mar. 2012
8275	HVTECK TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV, CSA HVTECK, 100%/133% Ins. Levels, 90 Mils, Single Conductor	Jan. 2010
8300	HVTECK TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV, CSA HVTECK, 133% Ins. Level, 115 Mils, Single Conductor	Jan. 2010
8325	HVTECK TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV, CSA HVTECK, 100%/133% Ins. Levels, 90 Mils, Three Conductor	Jan. 2010
8350	HVTECK TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV, CSA HVTECK, 133% Ins. Level, 115 Mils, Three Conductor	Jan. 2010
8375	HVTECK TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 100% Ins. Level, 175 Mils, Single Conductor	Jan. 2010
8400	HVTECK TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 133% Ins. Level, 220 Mils, Single Conductor	Jan. 2010
8425	HVTECK TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 100% Ins. Level, 175 Mils, Three Conductor	Jan. 2010
8450[†]	HVTECK TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 133% Ins. Level, 220 Mils, Three Conductor	Apr. 2011
8475	HVTECK TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 25 kV, CSA HVTECK, 100% Ins. Level, 260 Mils, Three Conductor	Jan. 2010
8500	HVTECK TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 25 kV, CSA HVTECK, 133% Ins. Level, 320 Mils, Three Conductor	Jan. 2010
8525	HVTECK TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 28 kV, CSA HVTECK, 133% Ins. Level, 345 Mils, Three Conductor	Jan. 2010
8550	VERTITECK® TECK90 XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored 1 kV, CSA TECK90, Three Conductor	Jan. 2010
8575	VERTITECK® TECK90 XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored 5 kV, CSA TECK90, 90 Mils, Three Conductor	Jan. 2010
8600	VERTITECK® HVTECK TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 133% Ins. Level, 220 Mils, Three Conductor	Mar. 2010
8625	VERTITECK® HVTECK TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 100% Ins. Level, 175 Mils, Three Conductor	Jan. 2010
8700[†]	ACWU XLPE/AIA/PVC, Control, Armored 600 V, CSA ACWU90 (-40°C), Single Conductor	Mar. 2012
8750[†]	ACWU XLPE/AIA/PVC, Control, Armored 600 V, CSA ACWU90 (-40°C), Three Conductor	Mar. 2012
8775[†]	ACWU XLPE/AIA/PVC, Control, Armored 600 V, CSA ACWU90 (-40°C), Four Conductor	Mar. 2012

Section 9 300 V – 35 kV CCW® Armored Cables for Hazardous Locations

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
9025	CCW® Armor Thermocouple Extension, Single Pair, Overall Shield (OS) UL Type ITC-HL/PLTC, PVC, 105°C, ABS CWCMC	Apr. 2011
9050	CCW® Armor Thermocouple Extension, Pairs, Overall Shield (OS) UL Type ITC-HL/PLTC, PVC, 105°C, ABS CWCMC	Apr. 2011
9075	CCW® Armor Thermocouple Extension, Pairs, Individual and Overall Shield (IS-OS) UL Type ITC-HL/PLTC, PVC, 105°C, ABS CWCMC	Apr. 2011



Table of Contents

Date of Issue 03/12

Section 9 (cont'd.) 300 V – 35 kV CCW® Armored Cables for Hazardous Locations

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
9125	CCW® Armor 300 V Instrumentation, Pairs/Triads, Overall Shield (OS) UL Type ITC-HL/PLTC, XLPE, 90°C, ABS CWCMC	Apr. 2011
9150	CCW® Armor 300 V Instrumentation, Pairs/Triads, Individual and Overall Shield (IS-OS) UL Type ITC-HL/PLTC, XLPE, 90°C, ABS CWCMC	Apr. 2011
9225	CCW® Armor 300 V Instrumentation, Pairs/Triads, Overall Shield (OS) UL Type ITC-HL/PLTC, PVC, 105°C, ABS CWCMC	Apr. 2011
9250	CCW® Armor 300 V Instrumentation, Pairs/Triads, Individual and Overall Shield (IS-OS) UL Type ITC-HL/PLTC, PVC, 105°C, ABS CWCMC	Apr. 2011
9325	CCW® Armor 600 V Instrumentation, Pairs/Triads, Overall Shield (OS) UL Type MC-HL, PVC/Nylon, 90°C, ABS CWCMC	Feb. 2011
9350	CCW® Armor 600 V Instrumentation, Pairs/Triads, Individual and Overall Shield (IS-OS) UL Type MC-HL, PVC/Nylon, 90°C, ABS CWCMC	Feb. 2011
9500	CCW® Armor 600 V Control With Grounding Conductor UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Feb. 2011
9510	CCW® Armor 600 V Control With Bare Grounding Conductor UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Feb. 2011
9525	CCW® Armor 600 V Control Without Grounding Conductor UL Type MC, XLPE, 90°C, ABS CWCMC	Feb. 2011
9600	CCW® Armor 600 V Power, 3/C VFD and 4/C UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Feb. 2011
9615	CCW® Armor 2000 V Power, 3/C VFD UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Feb. 2011
9625	CCW® Armor 600 V Composite Power and Control UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Jan. 2011
9650	CCW® Armor 600 V Composite Power and Control Without Ground UL Type MC, XLPE, 90°C, ABS CWCMC	Feb. 2011
9675	CCW® Armor 1000 V Power, 3/C VFD CSA Type RA90, HL, XLPE, 90°C	Mar. 2012
9700	CCW® Armor 2.4 kV Power, Nonshielded, 3/C VFD UL Type MC-HL or MV-90, EPR, 90°C, ABS CWCMC	Feb. 2011
9800	CCW® Armor 5 kV 133%/8 kV 100% Power, Shielded, 3/C VFD UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9815	CCW® Armor 8 kV 133% Power, Shielded, 3/C VFD UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9825	CCW® Armor 15 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9835	CCW® Armor 15 kV 133% Power, Shielded, 3/C UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9845	CCW® Armor 25 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9855	CCW® Armor 25 kV 133%/35 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9875	CCW® Armor 35 kV 133% Power, Shielded, 3/C UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9900	CCW® Armor CCW® Armored Cable Tool Kit	Jan. 2010

†Indicates these products are stocked by General Cable

Table of Contents

Date of Issue 03/12

Section A General Technical Information

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
A005	Glossary	Jan. 2010
A025	Reference Standards	Jan. 2010
A050	Checklist for Specifications	Jan. 2010
A075	NEC and CSA Designations	Jan. 2010
A100	Common Color Sequence	Apr. 2011
A150	Metric Conversion Factors	Sept. 2010
A200	Reel Capacity Chart	Jan. 2012

Section B Conductor Data

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
B005	Conductor Reference	Jan. 2010
B025	Class B Conductors for General Wiring	Mar. 2012
B030	Class C Conductors for General Wiring	Feb. 2011
B035	Class H Conductors for General Wiring	Feb. 2011
B040	Class I Conductors for General Wiring	Mar. 2012
B045	Class K Conductors for General Wiring	Mar. 2012

Section C Material Properties

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
C005	Thermoplastic Jacket and Insulation Material Properties	Jan. 2010
C010	Thermoset Jacket and Insulation Material Properties	Jan. 2010

Section D Handling and Storage Recommendations

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
D005	Recommended Reel Handling Practices	Mar. 2012
D025	Recommended Cable Handling Practices	Oct. 2011
D050	Recommended Cable Storage Practices	Nov. 2011

Table of Contents

Date of Issue 03/12

Section E Cable Installation Guidelines

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
E005	Pre-Installation Instructions	Apr. 2010
E025	Installation – Overview and Checklist	Jan. 2011
E050	Installation – Feed-In Setups	Apr. 2010
E075	Installation – Conductor Maximum Pulling Tensions	Mar. 2012
E100	Installation – Training and Bending Limitations	Apr. 2010
E125	Installation – Maximum Sidewall Pressure	Jan. 2011

Section F Cable Testing

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
F005	DC “HI-POT” Pre-Test Guidelines for MV Cables	Apr. 2010
F025	DC “HI-POT” Testing Guidelines for MV Cables	Apr. 2010
F075	Field Electrical “HI-POT” Testing Guidelines	Apr. 2010
F100	Emergency Overload Current Guidelines	Jan. 2010
F125	Short Circuit Current Calculation Overview	Jan. 2010
F150	Short Circuit Current for Copper Shields	Jan. 2010



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World Headquarters

General Cable
4 Tesseneer Drive
Highland Heights, KY
41076-9753 U.S.A.



300 V Instrumentation Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
1050	CHTC® XLPE/XL-CPE, Instrumentation, Shielded 300 V, UL Type PLTC, Overall Shielded Pairs/Triads	Mar. 2012
1100	CHTC® XLPE/XL-CPE, Instrumentation, Shielded 300 V, UL Type PLTC, Individual and Overall Shielded Pairs	Mar. 2012
1150	CVTC® XLPE/PVC, Instrumentation, Shielded 300 V, UL Type PLTC, Overall Shielded Pairs/Triads	Mar. 2012
1200	CVTC® XLPE/PVC, Instrumentation, Shielded 300 V, UL Type PLTC, Individual and Overall Shielded Pairs	Mar. 2012
1250†	PVIC® PVC/PVC, Instrumentation, Shielded 300 V, UL Type PLTC/ITC, Overall Shielded Pairs/Triads	Mar. 2012
1300†	PVIC® PVC/PVC, Instrumentation, Shielded 300 V, UL Type PLTC/ITC, Individual and Overall Shielded Pairs	Mar. 2012
1350	PVIC® PVC/PVC, Instrumentation, Shielded 300 V, UL Type PLTC/ITC, Individual and Overall Shielded Triads	Mar. 2012

†Indicates these products are stocked by General Cable

CHTC®

XLPE/XL-CPE, Instrumentation, Shielded
300 V, UL Type PLTC, Overall Shielded Pairs/Triads



Product Construction:

Conductor:

- 20 AWG thru 16 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:

Overall shielded pairs/triads

- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) CHTC XX/PS/TS XXAWG CU/XLP/XL-CPE SHIELDED (UL) TYPE PLTC 90°C SUN RES OIL RES I & II PLUS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- Class C stranding
- Individual and overall shielded pairs/triads
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- In accordance with UL Subject 2250 as Instrumentation Tray Cable (ITC)
- Other constructions available upon request

Applications:

- Typical applications include audio, intercom, control, energy management and alarm circuits
- In free air or raceways in accordance with NEC
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- In ducts, cable trays or conduit
- In accordance with UL Subject 13 as Power-Limited Circuit Cable
- In class 3 circuits in accordance with NEC

Features:

- Rated at 90°C
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Oil-resistant jacket
- Sunlight- and weather-resistant
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent flame resistance
- "Heavy duty" rating per ICEA standards
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -35°C

Compliances:

Industry Compliances:

- UL 13 Type PLTC, UL File # E36118
- UL 1581

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF PAIRS/TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELDED PAIRS/TRIADS 20 AWG CONDUCTORS

337770*	1	20	7/.0121	0.012	0.30	0.035	0.89	0.230	5.84	9	14	27	40
337780*	1 TRI	20	7/.0121	0.012	0.30	0.035	0.89	0.240	6.10	13	19	33	49
337790*	2	20	7/.0121	0.012	0.30	0.040	1.02	0.320	8.13	17	25	48	71
309660*	4	20	7/.0121	0.012	0.30	0.040	1.02	0.370	9.40	31	47	73	109
309670*	8	20	7/.0121	0.012	0.30	0.050	1.27	0.500	12.70	60	90	138	205
309680*	12	20	7/.0121	0.012	0.30	0.050	1.27	0.575	14.61	89	133	186	277
337800*	16	20	7/.0121	0.012	0.30	0.060	1.52	0.665	16.89	118	176	248	369
337810*	20	20	7/.0121	0.012	0.30	0.060	1.52	0.740	18.80	148	220	300	446
309690*	24	20	7/.0121	0.012	0.30	0.060	1.52	0.795	20.19	177	263	350	521
311640*	36	20	7/.0121	0.012	0.30	0.070	1.78	1.005	25.53	264	392	525	781
309700*	50	20	7/.0121	0.012	0.30	0.070	1.78	1.175	29.85	365	544	697	1037

OVERALL SHIELDED PAIRS/TRIADS 18 AWG CONDUCTORS

337820*	1	18	7/.0152	0.015	0.38	0.035	0.89	0.245	6.22	13	19	32	48
337830*	1 TRI	18	7/.0152	0.015	0.38	0.035	0.89	0.255	6.48	18	26	40	60
337840*	2	18	7/.0152	0.015	0.38	0.040	1.02	0.350	8.89	23	34	58	86
337850*	4	18	7/.0152	0.015	0.38	0.050	1.27	0.425	10.80	44	65	99	147
337860*	8	18	7/.0152	0.015	0.38	0.050	1.27	0.545	13.84	86	127	173	257
337870*	12	18	7/.0152	0.015	0.38	0.060	1.52	0.640	16.26	127	189	245	365
337880*	16	18	7/.0152	0.015	0.38	0.060	1.52	0.730	18.54	169	251	318	473
337890*	20	18	7/.0152	0.015	0.38	0.060	1.52	0.810	20.57	210	313	392	583
337900*	24	18	7/.0152	0.015	0.38	0.070	1.78	0.895	22.73	252	375	450	670
337910*	36	18	7/.0152	0.015	0.38	0.070	1.78	1.095	27.81	377	561	672	1000
337920*	50	18	7/.0152	0.015	0.38	0.070	1.78	1.255	31.88	523	778	904	1345

OVERALL SHIELDED PAIRS/TRIADS 16 AWG CONDUCTORS

309520*	1	16	7/.0192	0.015	0.38	0.035	0.89	0.270	6.86	18	28	41	61
337930*	1 TRI	16	7/.0192	0.015	0.38	0.035	0.89	0.285	7.24	27	40	54	80
337940*	2	16	7/.0192	0.015	0.38	0.050	1.27	0.430	10.92	36	53	85	126
337950*	4	16	7/.0192	0.015	0.38	0.050	1.27	0.490	12.45	69	102	135	201
337960*	8	16	7/.0192	0.015	0.38	0.060	1.52	0.650	16.51	135	201	246	366
337970*	12	16	7/.0192	0.015	0.38	0.060	1.52	0.755	19.18	202	300	346	515
337980*	16	16	7/.0192	0.015	0.38	0.060	1.52	0.845	21.46	268	399	444	661
337990*	20	16	7/.0192	0.015	0.38	0.060	1.52	0.900	22.86	335	498	552	821
338000*	24	16	7/.0192	0.015	0.38	0.070	1.78	1.020	25.91	401	597	655	975
338010*	36	16	7/.0192	0.015	0.38	0.070	1.78	1.225	31.12	601	894	649	966
338020*	50	16	7/.0192	0.015	0.38	0.080	2.03	1.415	35.94	834	1241	1308	1947

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

CHTC®

XLPE/XL-CPE, Instrumentation, Shielded 300 V, UL Type PLTC, Individual and Overall Shielded Pairs

Product Construction:

Conductor:

- 20 AWG thru 16 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white. One conductor in each pair is printed alpha-numerically for easy identification

Shield:

Individual and overall shielded pairs

- Individual pairs are 100% shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) CHTC XX/SPS XX AWG CU/XLP/XL-CPE SHIELDED (UL) TYPE PLTC 90°C SUN RES OIL RES I & II DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- Class C stranding
- Overall shielded pairs
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- In accordance with UL Subject 2250 as Instrumentation Tray Cable (ITC)
- Other constructions available upon request

Applications:

- Typical applications include audio, intercom, control, energy management and alarm circuits
- In free air or raceways in accordance with NEC
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- In ducts, cable trays or conduit
- In accordance with UL Subject 13 as Power-Limited Circuit Cable
- In class 3 circuits in accordance with NEC

Features:

- Rated at 90°C
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Oil-resistant jacket
- Sunlight- and weather-resistant
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent flame resistance
- "Heavy duty" rating per ICEA standards
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -35°C

Compliances:

Industry Compliances:

- UL 13 Type PLTC, UL File # E36118
- UL 1581

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF PAIRS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS 20 AWG CONDUCTORS

338030*	2	20	7/0.121	0.012	0.30	0.040	1.02	0.340	8.64	21	31	54	80
309540*	4	20	7/0.121	0.012	0.30	0.050	1.27	0.415	10.54	40	60	93	138
309550*	8	20	7/0.121	0.012	0.30	0.050	1.27	0.525	13.34	78	116	157	234
309560*	12	20	7/0.121	0.012	0.30	0.060	1.52	0.645	16.38	117	147	233	347
338040*	16	20	7/0.121	0.012	0.30	0.060	1.52	0.715	18.16	155	231	294	438
338050*	20	20	7/0.121	0.012	0.30	0.060	1.52	0.785	19.94	193	287	357	531
309570*	24	20	7/0.121	0.012	0.30	0.070	1.78	0.875	22.23	231	344	422	628
309580*	36	20	7/0.121	0.012	0.30	0.070	1.78	1.045	26.54	346	515	620	923
338060*	50	20	7/0.121	0.012	0.30	0.070	1.78	1.215	30.86	479	713	828	1232

INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

338070*	2	18	7/0.152	0.015	0.38	0.050	1.27	0.415	10.54	28	41	76	113
338080*	4	18	7/0.152	0.015	0.38	0.050	1.27	0.475	12.07	53	79	113	168
338090*	8	18	7/0.152	0.015	0.38	0.060	1.52	0.605	15.37	104	155	203	302
338100*	12	18	7/0.152	0.015	0.38	0.060	1.52	0.750	19.05	155	231	300	446
338110*	16	18	7/0.152	0.015	0.38	0.060	1.52	0.830	21.08	206	307	383	570
338120*	20	18	7/0.152	0.015	0.38	0.070	1.78	0.945	24.00	254	378	483	719
338130*	24	18	7/0.152	0.015	0.38	0.070	1.758	1.045	26.54	308	459	571	850
338140*	36	18	7/0.152	0.015	0.38	0.070	1.78	1.225	31.12	461	687	816	1214
338150*	50	18	7/0.152	0.015	0.38	0.080	2.03	1.450	36.83	640	952	1119	1665

INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG CONDUCTORS

338160*	2	16	7/0.192	0.015	0.38	0.050	1.27	0.440	11.18	40	60	92	137
338170*	4	16	7/0.192	0.015	0.38	0.050	1.27	0.545	13.84	78	116	163	243
338180*	8	16	7/0.192	0.015	0.38	0.060	1.52	0.965	24.51	153	228	287	427
338190*	12	16	7/0.192	0.015	0.38	0.060	1.52	0.885	22.48	229	341	437	650
338200*	16	16	7/0.192	0.015	0.38	0.070	1.78	0.980	24.89	304	453	553	823
338210*	20	16	7/0.192	0.015	0.38	0.070	1.78	1.080	27.43	380	566	680	1012
338220*	24	16	7/0.192	0.015	0.38	0.070	1.78	1.235	31.37	455	677	800	1191
338230*	36	16	7/0.192	0.015	0.38	0.080	2.03	1.405	35.69	662	985	1108	1649
338240*	50	16	7/0.192	0.015	0.38	0.080	2.03	1.640	41.66	945	1408	1523	2267

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

CVTC®

XLPE/PVC, Instrumentation, Shielded
300 V, UL Type PLTC, Overall Shielded Pairs/Triads



Product Construction:

Conductor:

- 18 AWG and 16 AWG bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:

- Overall shielded pairs/triads
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) CVTC XX/PS/TS XXAWG FR-XLP/PVC SHIELDED (UL) TYPE PLTC 90°C SUN RES PLUS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- Individual and overall shielded pairs/triads
- Ethylene Propylene Rubber (EPR) insulation
- In accordance with UL Subject 2250 as Instrumentation Tray Cable (ITC)
- Other constructions available upon request

Applications:

- In free air and raceways in accordance with NEC
- Typical applications include audio, intercom, control, energy management and alarm circuits
- In ducts, cable trays or conduit
- In accordance with UL Subject 13 as Power-Limited Circuit Cable
- In Class 3 circuits in accordance with NEC
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Abrasion- and chemical-resistant
- Excellent electrical properties
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 13 Type PLTC, UL File # E36118
- UL 1581

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- IEEE 383

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF PAIRS/TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

**OVERALL SHIELDED PAIRS/TRIADS
18 AWG CONDUCTORS**

366140*	1	18	7/.0152	0.015	0.38	0.035	0.89	0.235	5.97	13	19	32	48
342930*	1 TRI	18	7/.0152	0.015	0.38	0.040	1.02	0.250	6.35	18	27	40	60
342940*	2	18	7/.0152	0.015	0.38	0.040	1.02	0.365	9.27	25	37	56	83
342950*	4	18	7/.0152	0.015	0.38	0.050	1.27	0.440	11.18	46	68	98	146
342960*	8	18	7/.0152	0.015	0.38	0.050	1.27	0.550	13.97	87	129	175	260
342970*	12	18	7/.0152	0.015	0.38	0.060	1.52	0.675	17.15	129	192	250	372
342980*	16	18	7/.0152	0.015	0.38	0.060	1.52	0.750	19.05	171	254	317	472
342990*	20	18	7/.0152	0.015	0.38	0.060	1.52	0.785	19.94	211	314	392	583
343000*	24	18	7/.0152	0.015	0.38	0.060	1.52	0.905	22.99	253	377	476	708
343010*	36	18	7/.0152	0.015	0.38	0.070	1.78	1.080	27.43	377	561	681	1013
343020*	50	18	7/.0152	0.015	0.38	0.070	1.78	1.245	31.62	524	780	913	1359

**OVERALL SHIELDED PAIRS/TRIADS
16 AWG CONDUCTORS**

366150*	1	16	7/.0192	0.015	0.38	0.035	0.89	0.262	6.65	19	28	42	63
343030*	1 TRI	16	7/.0192	0.015	0.38	0.040	1.02	0.280	7.11	27	40	53	79
343040*	2	16	7/.0192	0.015	0.38	0.050	1.27	0.430	10.92	37	55	81	121
343050*	4	16	7/.0192	0.015	0.38	0.050	1.27	0.490	12.45	71	106	131	195
343060*	8	16	7/.0192	0.015	0.38	0.060	1.52	0.650	16.51	135	201	254	378
343070*	12	16	7/.0192	0.015	0.38	0.060	1.52	0.755	19.18	203	302	350	521
343080*	16	16	7/.0192	0.015	0.38	0.060	1.52	0.845	21.46	270	402	451	671
343090*	20	16	7/.0192	0.015	0.38	0.070	1.78	0.880	22.35	334	497	545	811
343100*	24	16	7/.0192	0.015	0.38	0.070	1.78	1.020	25.91	400	595	657	978
343110*	36	16	7/.0192	0.015	0.38	0.070	1.78	1.220	30.99	599	891	965	1423
343120*	50	16	7/.0192	0.015	0.38	0.080	2.03	1.405	35.69	831	1237	1322	1967

Dimensions and weights are nominal; subject to industry tolerances.
* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



CVTC®

XLPE/PVC, Instrumentation, Shielded 300 V, UL Type PLTC, Individual and Overall Shielded Pairs

Product Construction:

Conductor:

- 18 AWG and 16 AWG bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white. One conductor in each pair is printed alpha-numerically for easy identification

Shield:

Individual and overall shielded pairs

- Individual pairs are 100% shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) CVTC XX/ SPS XXAWG FR-XLP/PVC SHIELDED (UL) TYPE PLTC 90°C SUN RES PLUS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- Overall shielded pairs
- Ethylene Propylene Rubber (EPR) insulation
- In accordance with UL Subject 2250 as Instrumentation Tray Cable (ITC)
- Other constructions available upon request

Applications:

- In free air and raceways in accordance with NEC
- Typical applications include audio, intercom, control, energy management and alarm circuits
- In ducts, cable trays or conduit
- In accordance with UL Subject 13 as Power-Limited Circuit Cable
- In Class 3 circuits in accordance with NEC
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Abrasion- and chemical-resistant
- Excellent electrical properties
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 13 Type PLTC, UL File # E36118
- UL 1581

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- IEEE 383

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF PAIRS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

343140*	2	18	7/0.152	0.015	0.38	0.050	1.27	0.410	10.41	30	45	73	109
343150*	4	18	7/0.152	0.015	0.38	0.050	1.27	0.475	12.07	55	82	117	174
343160*	8	18	7/0.152	0.015	0.38	0.050	1.27	0.605	15.37	105	156	215	320
343170*	12	18	7/0.152	0.015	0.38	0.060	1.52	0.750	19.05	156	232	308	458
343180*	16	18	7/0.152	0.015	0.38	0.060	1.52	0.830	21.08	207	308	392	583
343190*	20	18	7/0.152	0.015	0.38	0.070	1.78	0.955	24.26	252	375	494	735
343200*	24	18	7/0.152	0.015	0.38	0.070	1.78	1.030	26.16	302	449	583	868
343210*	36	18	7/0.152	0.015	0.38	0.070	1.78	1.210	30.73	452	673	830	1235
343220*	50	18	7/0.152	0.015	0.38	0.080	2.03	1.425	36.20	637	948	1145	1704

INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG CONDUCTORS

343240*	2	16	7/0.192	0.015	0.38	0.050	1.27	0.455	11.56	42	63	96	143
343250*	4	16	7/0.192	0.015	0.38	0.050	1.27	0.530	13.46	80	119	160	238
343260*	8	16	7/0.192	0.015	0.38	0.060	1.52	0.710	18.03	155	231	293	436
343270*	12	16	7/0.192	0.015	0.38	0.060	1.52	0.855	21.72	230	342	425	632
343280*	16	16	7/0.192	0.015	0.38	0.070	1.78	0.955	24.26	306	455	563	838
343290*	20	16	7/0.192	0.015	0.38	0.070	1.78	1.055	26.80	375	558	664	988
343300*	24	16	7/0.192	0.015	0.38	0.070	1.78	1.160	29.46	456	679	780	1161
343310*	36	16	7/0.192	0.015	0.38	0.080	2.03	1.380	35.05	674	1003	1137	1692
343320*	50	16	7/0.192	0.015	0.38	0.080	2.03	1.580	40.13	945	1406	1518	2259

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

PVIC®

PVC/PVC, Instrumentation, Shielded
300 V, UL Type PLTC/ITC, Overall Shielded Pairs/Triads



Product Construction:

Conductor:

- 20 AWG thru 16 AWG bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Lead-free Polyvinyl Chloride (PVC)
- Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:

Overall shielded pairs/triads

- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) PVIC® XX/PS/TS XXAWG PVC/PVC SHIELDED (UL) TYPE PLTC OR ITC 105°C SUN RES MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- Other constructions available upon request

Applications:

- In free air and raceways in accordance with NEC
- Typical applications include audio, intercom, control, energy management and alarm circuits
- In ducts, cable trays or conduit
- In accordance with UL Subject 13 as Power-Limited Circuit Cable
- In Class 3 circuits in accordance with NEC Article 725
- In accordance with UL Subject 2250 as Instrumentation Tray Cable (ITC)
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC Article 501.10(B)(4) for UL Type PLTC/ITC cables
- Per NEC Article 727 for Type PLTC/ITC

Features:

- Rated at 105°C
- Good electrical properties
- Oil- and sunlight-resistant
- Flame-retardant
- Good mechanical properties
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL Type PLTC/ITC, UL File # E36118
- RoHS Compliant

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL Subject 13 (70,000 BTU/hr) for PLTC
- UL Subject 2250 (70,000 BTU/hr) for ITC

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF PAIRS/TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELDED PAIRS/TRIADS

20 AWG CONDUCTORS

325900	1	20	7/0121	0.012	0.30	0.040	1.02	0.220	5.59	9	13	28	42
325910	1 TRI	20	7/0121	0.012	0.30	0.040	1.02	0.241	6.12	12	18	34	51
325920	2	20	7/0121	0.012	0.30	0.040	1.02	0.255	6.48	17	25	41	60
325940	4	20	7/0121	0.012	0.30	0.042	1.07	0.321	8.15	30	45	65	97
339620*	8	20	7/0121	0.012	0.30	0.050	1.27	0.475	12.07	54	80	104	154
348090*	12	20	7/0121	0.012	0.30	0.050	1.27	0.545	13.84	83	124	195	290
334630*	16	20	7/0121	0.012	0.30	0.050	1.27	0.605	15.37	107	159	248	369
348100*	20	20	7/0121	0.012	0.30	0.060	1.52	0.650	16.51	135	201	309	460
759610*	24	20	7/0121	0.012	0.30	0.060	1.52	0.740	18.80	153	228	376	559
339650*	36	20	7/0121	0.012	0.30	0.060	1.52	0.850	21.59	238	354	530	789
339660*	50	20	7/0121	0.012	0.30	0.070	1.78	0.970	24.64	330	491	713	1061

OVERALL SHIELDED PAIRS/TRIADS

18 AWG CONDUCTORS

325830	1	18	7/0152	0.015	0.38	0.040	1.02	0.240	6.10	12	18	35	52
325840	1 TRI	18	7/0152	0.015	0.38	0.040	1.02	0.264	6.71	18	27	44	66
325850	2	18	7/0152	0.015	0.38	0.042	1.07	0.325	8.26	25	37	55	82
325880	4	18	7/0152	0.015	0.38	0.042	1.07	0.357	9.07	46	68	90	133
348020*	8	18	7/0152	0.015	0.38	0.060	1.52	0.646	16.41	87	129	192	285
348030*	12	18	7/0152	0.015	0.38	0.060	1.52	0.670	17.02	129	192	293	436
348040*	16	18	7/0152	0.015	0.38	0.060	1.52	0.750	19.05	171	254	374	556
339670*	20	18	7/0152	0.015	0.38	0.060	1.52	0.780	19.81	211	314	449	668
339680*	24	18	7/0152	0.015	0.38	0.070	1.78	0.915	23.24	253	377	564	839
791720*	36	18	7/0152	0.015	0.38	0.070	1.78	1.030	26.16	453	674	787	1171
339690*	50	18	7/0152	0.015	0.38	0.070	1.78	1.180	29.97	524	780	1059	1576

OVERALL SHIELDED PAIRS/TRIADS

16 AWG CONDUCTORS

325770	1	16	7/0192	0.015	0.38	0.040	1.02	0.273	6.93	18	27	45	67
325780	1 TRI	16	7/0192	0.015	0.38	0.042	1.07	0.297	7.54	27	40	58	86
325790	2	16	7/0192	0.015	0.38	0.042	1.07	0.344	8.74	37	55	74	109
325810	4	16	7/0192	0.015	0.38	0.053	1.35	0.481	12.22	71	106	132	197
339700*	8	16	7/0192	0.015	0.38	0.060	1.52	0.726	18.44	135	201	259	385
298830*	12	16	7/0192	0.015	0.38	0.060	1.52	0.755	19.18	203	302	408	607
760530*	16	16	7/0192	0.015	0.38	0.070	1.78	0.845	21.46	270	402	526	783
339710*	20	16	7/0192	0.015	0.38	0.070	1.78	0.905	22.99	334	497	655	975
339720*	24	16	7/0192	0.015	0.38	0.070	1.78	1.030	26.16	400	595	803	1195
339730*	36	16	7/0192	0.015	0.38	0.070	1.78	1.165	29.59	599	891	1122	1670
339740*	50	16	7/0192	0.015	0.38	0.080	2.03	1.355	34.42	831	1237	1544	2298

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



PVIC®

PVC/PVC, Instrumentation, Shielded 300 V, UL Type PLTC/ITC, Individual and Overall Shielded Pairs

Product Construction:

Conductor:

- 20 AWG thru 16 AWG bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Lead-free Polyvinyl Chloride (PVC)
- Color-coded per ICEA Method 1: Pairs - black and white. One conductor in each pair is printed alpha-numerically for easy identification

Shield:

Individual and overall shielded pairs

- Individual pairs are 100% shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) PVC XX/SPS XXAWG PVC/PVC SHIELDED (UL) TYPE PLTC OR ITC 105°C SUN RES MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- Other constructions available upon request

Applications:

- In free air and raceways in accordance with NEC
- Typical applications include audio, intercom, control, energy management and alarm circuits
- In ducts, cable trays or conduit
- In accordance with UL Subject 13 as Power-Limited Circuit Cable
- In Class 3 circuits in accordance with NEC Article 725
- In accordance with UL Subject 2250 as Instrumentation Tray Cable (ITC)
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC Article 501.10(B)(4) for UL Type PLTC/ITC cables
- Per NEC Article 727 for Type PLTC/ITC

Features:

- Rated at 105°C
- Good electrical properties
- Oil- and sunlight-resistant
- Flame-retardant
- Good mechanical properties
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL Type PLTC/ITC, UL File # E36118
- RoHS Compliant

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL Subject 13 (70,000 BTU/hr) for PLTC
- UL Subject 2250 (70,000 BTU/hr) for ITC

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF PAIRS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS 20 AWG CONDUCTORS

325930	2	20	7/0.121	0.012	0.30	0.040	1.02	0.316	8.03	22	33	46	69
325950	4	20	7/0.121	0.012	0.30	0.042	1.07	0.325	8.26	39	58	76	113
339750	8	20	7/0.121	0.012	0.30	0.050	1.27	0.426	10.82	71	106	148	220
339760*	12	20	7/0.121	0.012	0.30	0.060	1.52	0.640	16.26	83	124	223	332
348110*	16	20	7/0.121	0.012	0.30	0.060	1.52	0.705	17.91	165	246	280	417
339770*	20	20	7/0.121	0.012	0.30	0.060	1.52	0.780	19.81	175	260	339	504
339780*	24	20	7/0.121	0.012	0.30	0.060	1.52	0.845	21.46	209	311	397	591
348120*	36	20	7/0.121	0.012	0.30	0.070	1.78	1.015	25.78	324	482	586	872
341790*	50	20	7/0.121	0.012	0.30	0.070	1.78	1.190	30.23	433	644	786	1170

INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

325860	2	18	7/0.152	0.015	0.38	0.042	1.07	0.380	9.65	30	45	61	91
325890	4	18	7/0.152	0.015	0.38	0.042	1.07	0.410	10.41	55	82	100	149
348060	8	18	7/0.152	0.015	0.38	0.060	1.52	0.485	12.32	105	156	212	316
348070*	12	18	7/0.152	0.015	0.38	0.060	1.52	0.760	19.30	156	232	315	469
760420*	16	18	7/0.152	0.015	0.38	0.060	1.52	0.845	21.46	207	308	401	597
339800*	20	18	7/0.152	0.015	0.38	0.070	1.78	0.955	24.26	252	375	505	752
339810*	24	18	7/0.152	0.015	0.38	0.070	1.78	1.040	26.42	302	449	596	887
339820*	36	18	7/0.152	0.015	0.38	0.070	1.78	1.215	30.86	452	673	846	1259
339830*	50	18	7/0.152	0.015	0.38	0.080	2.03	1.450	36.83	628	935	1165	1734

INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG CONDUCTORS

325800	2	16	7/0.192	0.015	0.38	0.042	1.07	0.346	8.79	42	63	80	119
325820	4	16	7/0.192	0.015	0.38	0.053	1.35	0.506	12.85	80	119	151	225
298880	8	16	7/0.192	0.015	0.38	0.060	1.52	0.665	16.89	155	231	288	429
298890	12	16	7/0.192	0.015	0.38	0.060	1.52	0.855	21.72	230	342	435	647
759770*	16	16	7/0.192	0.015	0.38	0.070	1.78	0.970	24.64	306	455	575	856
339840*	20	16	7/0.192	0.015	0.38	0.070	1.78	1.080	27.43	375	558	705	1049
759780*	24	16	7/0.192	0.015	0.38	0.070	1.78	1.165	29.59	456	679	828	1232
339850*	36	16	7/0.192	0.015	0.38	0.080	2.03	1.390	35.31	674	1003	1215	1808
339860*	50	16	7/0.192	0.015	0.38	0.090	2.29	1.655	42.04	935	1391	1670	2485

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

PVIC®

PVC/PVC, Instrumentation, Shielded

300 V, UL Type PLTC/ITC, Individual and Overall Shielded Triads



Product Construction:

Conductor:

- 20 AWG thru 16 AWG bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Lead-free Polyvinyl Chloride (PVC)
- Color-coded per ICEA Method 1: Triads - black, white and red. One conductor in each triad is printed alpha-numerically for easy identification

Shield:

Individual and overall shielded triads

- Individual triads are 100% shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) PVC XX/STS XXAWG PVC/PVC SHIELDED (UL) TYPE PLTC OR ITC 105°C SUN RES MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- Other constructions available upon request

Applications:

- In free air and raceways in accordance with NEC
- Typical applications include audio, intercom, control, energy management and alarm circuits
- In ducts, cable trays or conduit
- In accordance with UL Subject 13 as Power-Limited Circuit Cable
- In Class 3 circuits in accordance with NEC Article 725
- In accordance with UL Subject 2250 as Instrumentation Tray Cable (ITC)
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC Article 501-4(b) for UL Type PLTC/ITC cables
- Per NEC Article 727 for Type PLTC/ITC

Features:

- Rated at 105°C
- Good electrical properties
- Oil and sunlight resistance
- Flame-retardant
- Good mechanical properties
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL Type PLTC/ITC, UL File # E36118
- RoHS Compliant

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL Subject 13 (70,000 BTU/hr) for PLTC
- UL Subject 2250 (70,000 BTU/hr) for ITC

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED TRIADS 20 AWG CONDUCTORS

339870*	2 TRI	20	7/0121	0.012	0.30	0.040	1.07	0.340	8.64	26	39	59	88
339880*	4 TRI	20	7/0121	0.012	0.30	0.040	1.07	0.365	9.27	48	71	97	144
339890*	8 TRI	20	7/0121	0.012	0.30	0.050	1.27	0.566	14.38	97	144	187	279
339900*	12 TRI	20	7/0121	0.012	0.30	0.060	1.52	0.705	17.91	145	216	287	427
339910*	16 TRI	20	7/0121	0.012	0.30	0.060	1.52	0.780	19.81	192	286	365	543
339920*	20 TRI	20	7/0121	0.012	0.30	0.060	1.52	0.860	21.84	240	357	440	655
339930*	24 TRI	20	7/0121	0.012	0.30	0.070	1.78	0.955	24.26	288	429	541	805
339940*	36 TRI	20	7/0121	0.012	0.30	0.070	1.78	1.115	28.32	431	641	767	1141

INDIVIDUAL AND OVERALL SHIELDED TRIADS 18 AWG CONDUCTORS

325870*	2 TRI	18	7/0152	0.015	0.38	0.040	1.07	0.321	8.15	38	57	77	115
339960*	4 TRI	18	7/0152	0.015	0.38	0.050	1.27	0.444	11.28	73	109	143	213
348010*	8 TRI	18	7/0152	0.015	0.38	0.060	1.52	0.691	17.55	147	219	275	409
760300*	12 TRI	18	7/0152	0.015	0.38	0.060	1.52	0.840	21.34	215	320	412	613
339980*	16 TRI	18	7/0152	0.015	0.38	0.070	1.78	0.960	24.38	286	426	550	819
339990*	20 TRI	18	7/0152	0.015	0.38	0.070	1.78	1.060	26.92	357	531	668	994
340000*	24 TRI	18	7/0152	0.015	0.38	0.070	1.78	1.145	29.08	428	637	785	1168
340010*	36 TRI	18	7/0152	0.015	0.38	0.080	2.03	1.365	34.67	641	954	1151	1713

INDIVIDUAL AND OVERALL SHIELDED TRIADS 16 AWG CONDUCTORS

340020*	2 TRI	16	7/0192	0.015	0.38	0.040	1.07	0.367	9.32	54	80	104	154
340030*	4 TRI	16	7/0192	0.015	0.38	0.050	1.27	0.502	12.75	108	161	195	290
340040*	8 TRI	16	7/0192	0.015	0.38	0.060	1.52	0.786	19.96	218	324	375	558
340050*	12 TRI	16	7/0192	0.015	0.38	0.070	1.78	0.970	24.64	325	484	597	888
340060*	16 TRI	16	7/0192	0.015	0.38	0.070	1.78	1.075	27.31	433	644	765	1138
340070*	20 TRI	16	7/0192	0.015	0.38	0.070	1.78	1.195	30.35	541	805	933	1388
340080*	24 TRI	16	7/0192	0.015	0.38	0.080	2.03	1.310	33.27	649	966	1125	1674
340090*	36 TRI	16	7/0192	0.015	0.38	0.080	2.03	1.540	40.39	972	1447	1620	2411

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

600 V Instrumentation Cables

SPECIFICATION NO.		PRODUCT DESCRIPTION	REVISION DATE
2050 [†]	CHTC [®]	XLPE/XL-CPE, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Pairs/Triads	Mar. 2012
2100 [†]	FREP [®]	FR-EPR/CPE, Instrumentation, Shielded 600 V, UL Type TC, Overall Shielded Pairs/Triads	Mar. 2012
2150 [†]	FREP [®]	FR-EPR/CPE, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Pairs	Mar. 2012
2200	FREP [®]	FR-EPR/CPE, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Triads	Mar. 2012
2250	Arctic-Flex [®]	XLPE/ARCTIC-PVC, Instrumentation, Shielded 600 V, UL Type TC, CSA Type CIC, Overall Shielded Pairs/Triads	Mar. 2012
2300	Arctic-Flex [®]	XLPE/ARCTIC-PVC, Instrumentation, Shielded 600 V, UL Type TC, CSA Type CIC, Individual and Overall Shielded Pairs	Mar. 2012
2350	CVTC [®]	XLPE/PVC, Instrumentation, Shielded 600 V, UL Type TC, Overall Shielded Pairs/Triads	Mar. 2012
2400	CVTC [®]	XLPE/PVC, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Pairs	Mar. 2012
2450 [†]	VNTC [®]	PVC/Nylon/PVC, Instrumentation, Shielded 600 V, UL Type TC, Overall Shielded Pairs/Triads	Mar. 2012
2500 [†]	VNTC [®]	PVC/Nylon/PVC, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Pairs	Mar. 2012
2600 [†]	GenFree [®]	XLPE/LSZH, Instrumentation, Shielded 600 V, UL Type TC-LS, Overall Shielded Pairs/Triads	Mar. 2012
2625 [†]	GenFree [®]	XLPE/LSZH, Instrumentation, Shielded 600 V, UL Type TC-LS, Individual and Overall Shielded Pairs	Mar. 2012
2650	GenFree [®]	XLPE/LSZH, Instrumentation, Shielded 600 V, UL Type TC-LS, Individual and Overall Shielded Triads	Mar. 2012

[†]Indicates these products are stocked by General Cable

CHTC®

XLPE/XL-CPE, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Pairs/Triads



Product Construction:

Conductor:

- 18 AWG and 16 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:

- **Individual and overall shielded pairs/triads**
- Individual pairs/triads are 100% shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) CHTC® XX/SPS/STS XXAWG SHIELDED CU/XLP/XL-CPE SHIELDED (UL) TYPE TC 600 V 90°C WET OR DRY SUN RES OIL RES I & II DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 300 V Type PLTC
- Bare copper conductor
- Class C stranding
- Overall shielded pairs/triads
- EHTC®—Ethylene Propylene Rubber (EPR) insulation
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Oil-resistant jacket
- Sunlight- and weather-resistant
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent flame resistance
- "Heavy duty" rating per ICEA standards
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -35°C

Compliances:

Industry Compliances:

- UL Type RFH-2, FFH-2 conductors
- UL 1277 Type TC, UL File # E57179
- UL 1581
- ICEA S-73-532/WC57

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF PAIRS/TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS

18 AWG CONDUCTORS

285150	1	18	7/.0152	0.030	0.76	0.045	1.52	0.315	8.15	13	19	49	73
337620*	1 TRI	18	7/.0152	0.030	0.76	0.045	1.14	0.335	8.51	18	26	64	95
337630*	2	18	7/.0152	0.030	0.76	0.045	1.14	0.510	12.95	28	42	92	137
337640*	4	18	7/.0152	0.030	0.76	0.060	1.52	0.630	16.00	53	79	167	249
337650*	8	18	7/.0152	0.030	0.76	0.080	2.03	0.855	21.72	104	155	326	485
337660*	12	18	7/.0152	0.030	0.76	0.080	2.03	1.030	26.16	155	231	441	656
337670*	16	18	7/.0152	0.030	0.76	0.080	2.03	1.140	28.96	206	307	554	824
337680*	20	18	7/.0152	0.030	0.76	0.080	2.03	1.265	32.13	256	381	676	1006
337690*	24	18	7/.0152	0.030	0.76	0.080	2.03	1.450	36.83	308	459	795	1183
337700*	36	18	7/.0152	0.030	0.76	0.110	2.79	1.650	41.91	461	687	1118	1664
337710*	50	18	7/.0152	0.030	0.76	0.110	2.79	2.085	52.96	637	948	1616	2405

INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS

16 AWG CONDUCTORS

240990	1	16	7/.0192	0.030	0.76	0.045	1.52	0.345	8.76	19	28	61	91
241510	1 TRI	16	7/.0192	0.030	0.76	0.045	1.52	0.360	9.10	28	42	85	127
241010	2	16	7/.0192	0.030	0.76	0.060	1.52	0.585	14.86	40	60	130	193
232560	4	16	7/.0192	0.030	0.76	0.060	1.52	0.675	17.15	78	116	204	304
241000*	8	16	7/.0192	0.030	0.76	0.080	2.03	0.915	23.24	153	228	394	586
252370	12	16	7/.0192	0.030	0.76	0.080	2.03	1.110	28.19	229	341	548	816
337720*	16	16	7/.0192	0.030	0.76	0.080	2.03	1.350	34.29	304	453	713	1061
337730*	20	16	7/.0192	0.030	0.76	0.080	2.03	1.365	34.67	380	566	850	1265
337740*	24	16	7/.0192	0.030	0.76	0.080	2.03	1.570	39.88	455	677	1001	1490
337750*	36	16	7/.0192	0.030	0.76	0.110	2.79	1.980	50.29	682	1014	1548	2304
337760*	50	16	7/.0192	0.030	0.76	0.110	2.79	2.165	54.99	946	1408	2020	3006

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



FREP®

FR-EPR/CPE, Instrumentation, Shielded 600 V, UL Type TC, Overall Shielded Pairs/Triads

Product Construction:

Conductor:

- 18 AWG and 16 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:

- Overall shielded pairs/triads
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, thermoplastic Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) FREP® XX/PS/TS XXAWG EPR/CPE SHIELDED (UL) TYPE TC 90°C WET OR DRY 600 V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- Class C stranding
- Individual and overall shielded pairs/triads
- CCTC—Cross-linked Polyethylene (XLPE) insulation
- FREP® XL-flame-retardant, thermoset Chlorinated Polyethylene (XL-CPE) jacket
- FREP® II-flame-retardant, thermoplastic Low-Smoke, Zero-Halogen (LSZH) Polyolefin jacket
- FREP® 300 V-UL Type PLTC
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression cuts and heat deformation
- Excellent flame resistance—burns to an ash; does not exhibit thermoplastic drip
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -40°C

Compliances:

- **Industry Compliances:**
 - UL 1277 Type TC, UL File # E57179
 - UL 1581
 - ICEA S-73-532/NEMA WC57

- **Flame Test Compliances:**
 - UL 1581/UL 2556 VW-1
 - UL 1685 Vertical Flame Test
 - IEEE 383
 - IEEE 1202
 - CSA FT4
 - ICEA T-29-520

- **Other Compliances:**
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP
 - OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF PAIRS/TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELDED PAIRS/TRIADS 18 AWG CONDUCTORS

287650*	1	18	7/.0152	0.025	0.64	0.045	1.14	0.300	7.62	13	19	42	63
325250*	1 TRI	18	7/.0152	0.025	0.64	0.045	1.14	0.315	8.00	18	26	53	79
337010*	2	18	7/.0152	0.025	0.64	0.045	1.14	0.420	10.67	23	34	75	112
337020*	4	18	7/.0152	0.025	0.64	0.045	1.14	0.490	12.45	44	65	117	174
337030*	8	18	7/.0152	0.025	0.64	0.060	1.52	0.675	17.15	86	127	224	333
337040*	12	18	7/.0152	0.025	0.64	0.060	1.52	0.775	19.69	127	189	305	454
294580*	16	18	7/.0152	0.025	0.64	0.080	2.03	0.925	23.50	169	251	425	632
337050*	20	18	7/.0152	0.025	0.64	0.080	2.03	1.025	26.04	210	313	510	759
337060*	24	18	7/.0152	0.025	0.64	0.080	2.03	1.105	28.07	252	375	604	899
337070*	36	18	7/.0152	0.025	0.64	0.080	2.03	1.360	34.54	377	561	865	1287
337080*	50	18	7/.0152	0.025	0.64	0.080	2.03	1.555	39.50	523	778	1144	1703

OVERALL SHIELDED PAIRS/TRIADS 16 AWG CONDUCTORS

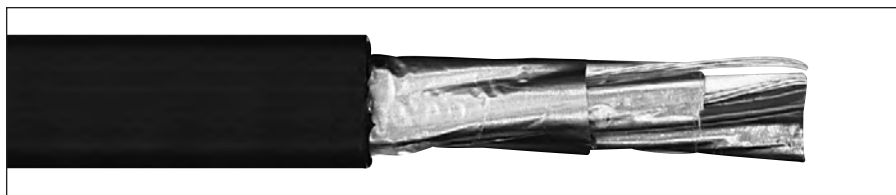
314960	1	16	7/.0192	0.025	0.64	0.045	1.14	0.320	8.13	18	28	52	77
279690	1 TRI	16	7/.0192	0.025	0.64	0.045	1.14	0.335	8.51	26	39	66	98
283170*	2	16	7/.0192	0.025	0.64	0.045	1.14	0.460	11.68	36	54	95	141
283180*	4	16	7/.0192	0.025	0.64	0.060	1.52	0.560	14.22	69	103	171	254
337090*	8	16	7/.0192	0.025	0.64	0.060	1.52	0.740	18.80	135	201	294	438
283190*	12	16	7/.0192	0.025	0.64	0.080	2.03	0.900	22.86	202	300	438	652
337100*	16	16	7/.0192	0.025	0.64	0.080	2.03	1.015	25.78	268	399	560	833
337110*	20	16	7/.0192	0.025	0.64	0.080	2.03	1.130	28.70	335	498	680	1012
337120*	24	16	7/.0192	0.025	0.64	0.080	2.03	1.215	30.86	401	597	807	1201
337130*	36	16	7/.0192	0.025	0.64	0.080	2.03	1.505	38.23	601	894	1160	1726
337140*	50	16	7/.0192	0.025	0.64	0.080	2.03	2.095	53.21	834	1241	1702	2533

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

FREP®

FR-EPR/CPE, Instrumentation, Shielded
600 V, UL Type TC, Individual and Overall Shielded Pairs



Product Construction:

Conductor:

- 18 AWG and 16 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 1: Pairs - black and white. One conductor in each pair is printed alpha-numerically for easy identification

Shield:

Individual and overall shielded pairs

- Individual pairs are 100% individually shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, thermoplastic Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) FREP® XX/SPS XXAWG EPR/CPE SHIELDED (UL) TYPE TC 90°C WET OR DRY 600 V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- Class C stranding
- Overall shielded pairs
- CCTC – Cross-linked Polyethylene (XLPE) insulation
- FREP® XL-flame-retardant, thermoset Chlorinated Polyethylene (XL-CPE) jacket
- FREP® II-flame-retardant, thermoplastic Low-Smoke, Zero-Halogen (LSZH) Polyolefin jacket
- FREP® 300 V-UL Type PLTC
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression cuts and heat deformation
- Excellent flame resistance—burns to an ash; does not exhibit thermoplastic drip
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -40°C

Compliances:

Industry Compliances:

- UL 1277 Type TC, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF PAIRS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

279700	2	18	7/.0152	0.025	0.64	0.045	1.14	0.473	12.01	27	41	83	124
279710	4	18	7/.0152	0.025	0.64	0.060	1.52	0.586	14.88	53	78	152	226
279720*	8	18	7/.0152	0.025	0.64	0.060	1.52	0.751	19.08	103	153	259	385
279730*	12	18	7/.0152	0.025	0.64	0.080	2.03	0.948	24.08	153	228	398	592
279740*	16	18	7/.0152	0.025	0.64	0.080	2.03	1.050	26.67	206	307	502	747
319270*	20	18	7/.0152	0.025	0.64	0.080	2.03	1.185	30.10	254	378	623	927
279750*	24	18	7/.0152	0.025	0.64	0.080	2.03	1.220	30.99	311	463	709	1055
337240*	36	18	7/.0152	0.025	0.64	0.080	2.03	1.474	37.44	461	687	1008	1500
337250*	50	18	7/.0152	0.025	0.64	0.110	2.79	1.780	45.21	640	952	1454	2164

INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG CONDUCTORS

280500	2	16	7/.0192	0.025	0.64	0.045	1.14	0.500	12.70	40	59	103	153
280520	4	16	7/.0192	0.025	0.64	0.060	1.52	0.650	16.51	77	114	189	281
280530	6	16	7/.0192	0.025	0.64	0.060	1.52	0.755	19.18	115	171	268	399
280540	8	16	7/.0192	0.025	0.64	0.060	1.52	0.840	21.34	151	225	330	491
279760	12	16	7/.0192	0.025	0.64	0.080	2.03	1.065	27.05	226	337	506	753
280990*	16	16	7/.0192	0.025	0.64	0.080	2.03	1.185	30.10	305	453	643	957
337260*	20	16	7/.0192	0.025	0.64	0.080	2.03	1.320	33.53	380	566	777	1156
279770*	24	16	7/.0192	0.025	0.64	0.080	2.03	1.485	37.72	455	677	932	1387
288260*	36	16	7/.0192	0.025	0.64	0.080	2.03	1.760	44.70	683	1016	1410	2098
288250*	50	16	7/.0192	0.025	0.64	0.110	2.79	2.035	51.69	946	1408	1883	2802

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



FREP®

FR-EPR/CPE, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Triads

Product Construction:

Conductor:

- 18 AWG and 16 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 1: Triads - black, white and red. One conductor in each triad is printed alpha-numerically for easy identification

Shield:

Individual and overall shielded triads

- Individual triads are 100% shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, thermoplastic Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) FREP® XX/STS XXAWG EPR/CPE SHIELDED (UL) TYPE TC 90°C WET OR DRY 600 V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- Class C stranding
- Overall shielded pairs/triads
- CCTC—Cross-linked Polyethylene (XLPE) insulation
- FREP® XL-flame-retardant, thermoset Chlorinated Polyethylene (XL-CPE) jacket
- FREP® II-flame-retardant, thermoplastic Low-Smoke, Zero-Halogen (LSZH) polyolefin jacket
- FREP® 300 V-UL Type PLTC
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression cuts and heat deformation
- Excellent flame resistance—burns to an ash; does not exhibit thermoplastic drip
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -40°C

Compliances:

Industry Compliances:

- UL 1277 Type TC, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

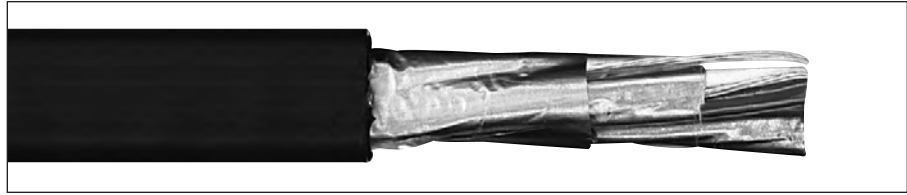
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED TRIADS 18 AWG CONDUCTORS

337150*	2 TRI	18	7/.0152	0.025	0.64	0.060	1.52	0.560	14.22	38	57	127	189
319250*	4 TRI	18	7/.0152	0.025	0.64	0.060	1.52	0.640	16.26	73	109	201	299
319260*	8 TRI	18	7/.0152	0.025	0.64	0.080	2.03	0.825	20.96	144	214	343	510
337160*	12 TRI	18	7/.0152	0.025	0.64	0.080	2.03	1.065	27.05	218	324	528	786
294540*	16 TRI	18	7/.0152	0.025	0.64	0.080	2.03	1.180	29.97	290	431	675	1005
337170*	20 TRI	18	7/.0152	0.025	0.64	0.080	2.03	1.310	33.27	361	538	825	1228
337180*	24 TRI	18	7/.0152	0.025	0.64	0.080	2.03	1.500	38.10	433	645	972	1447
337190*	36 TRI	18	7/.0152	0.025	0.64	0.080	2.03	1.740	44.20	649	965	1470	2188

INDIVIDUAL AND OVERALL SHIELDED TRIADS 16 AWG CONDUCTORS

280950*	2 TRI	16	7/.0192	0.025	0.64	0.060	1.52	0.615	15.62	57	84	159	237
280960*	4 TRI	16	7/.0192	0.025	0.64	0.060	1.52	0.705	17.91	108	160	249	371
280970*	8 TRI	16	7/.0192	0.025	0.64	0.080	2.03	0.850	21.59	217	323	472	702
287410*	12 TRI	16	7/.0192	0.025	0.64	0.080	2.03	1.160	29.46	328	487	683	1016
337200*	16 TRI	16	7/.0192	0.025	0.64	0.080	2.03	1.290	32.77	436	649	879	1308
337210*	20 TRI	16	7/.0192	0.025	0.64	0.080	2.03	1.380	35.05	545	811	1058	1575
337220*	24 TRI	16	7/.0192	0.025	0.64	0.080	2.03	1.615	41.02	653	972	1266	1884
337230*	36 TRI	16	7/.0192	0.025	0.64	0.110	2.79	1.920	48.77	979	1457	1918	2854

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

Arctic-Flex®

XLPE/ARCTIC-PVC, Instrumentation, Shielded
600 V, UL Type TC, CSA Type CIC, Overall Shielded Pairs/Triads



Product Construction:

Conductor:

- 18 AWG and 16 AWG tinned, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white, and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:

Overall shielded pairs/triads

- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Arctic-grade Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (UL) TYPE TC ARCTIC-FLEX® FR-XLP/PVC XX PS/TS XX AWG SHIELDED 90C WET OR DRY SUN RES DIR BUR 600 V - CSA TYPE CIC SHIELDED INSTRUMENTATION CABLE XLPE 90C WET OR DRY -40C FT4 PLUS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper
- Class C stranding
- E-2 Color Code
- CSA Rated TC for 14 AWG and larger
- Other constructions available upon request

Applications:

- Industrial lighting, control and signaling circuits
- Primary installations in cable trays, raceways or outdoor applications where supported by a messenger wire
- In wet or dry locations

Features:

- Rated 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Sunlight- and weather-resistant
- Meets CSA cold impact test at -40°C
- Meets ICEA and CSA cold bend test at -60°C

Compliances:

Industry Compliances:

- UL 1277 Type TC, UL File # E57179
- UL 1581
- CSA C22.2 No. 239 Type CIC

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- CSA FT4
- IEEE 383

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to lengths and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF PAIRS/TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELDED PAIRS/TRIADS

18 AWG CONDUCTORS

366170*	1	18	7/.0152	0.030	0.76	0.045	1.14	0.315	8.00	12	18	46	68
347630*	1 TRI	18	7/.0152	0.030	0.76	0.045	1.14	0.340	8.64	18	26	57	85
347640*	2	18	7/.0152	0.030	0.76	0.045	1.14	0.450	11.43	23	34	88	131
347650*	4	18	7/.0152	0.030	0.76	0.045	1.14	0.560	14.22	44	65	144	214
347660*	8	18	7/.0152	0.030	0.76	0.060	1.52	0.750	19.05	94	140	263	391
347670*	12	18	7/.0152	0.030	0.76	0.080	2.03	0.850	21.59	141	210	358	533
347680*	16	18	7/.0152	0.030	0.76	0.080	2.03	1.010	25.65	187	278	461	686
347690*	20	18	7/.0152	0.030	0.76	0.080	2.03	1.085	27.56	233	347	600	893
347700*	24	18	7/.0152	0.030	0.76	0.080	2.03	1.210	30.73	279	415	761	1043
347710*	36	18	7/.0152	0.030	0.76	0.080	2.03	1.500	38.10	418	622	1005	1496
347720*	50	18	7/.0152	0.030	0.76	0.080	2.03	2.570	65.28	580	863	1603	2386

OVERALL SHIELDED PAIRS/TRIADS

16 AWG CONDUCTORS

366180*	1	16	7/.0192	0.030	0.76	0.045	1.14	0.345	8.76	19	28	32	48
347730*	1 TRI	16	7/.0192	0.030	0.76	0.045	1.14	0.360	9.14	27	40	71	106
347740*	2	16	7/.0192	0.030	0.76	0.045	1.14	0.560	14.22	36	53	121	181
347750*	4	16	7/.0192	0.030	0.76	0.060	1.52	0.650	16.51	69	102	186	277
347760*	8	16	7/.0192	0.030	0.76	0.060	1.52	0.810	20.57	135	201	324	482
347770*	12	16	7/.0192	0.030	0.76	0.080	2.03	1.000	25.40	202	300	486	723
347780*	16	16	7/.0192	0.030	0.76	0.080	2.03	1.120	28.45	268	399	616	917
347790*	20	16	7/.0192	0.030	0.76	0.080	2.03	1.170	29.72	335	498	734	1092
347800*	24	16	7/.0192	0.030	0.76	0.080	2.03	1.440	36.58	401	597	894	1330
347810*	36	16	7/.0192	0.030	0.76	0.080	2.03	1.650	41.91	601	894	1254	1866
347820*	50	16	7/.0192	0.030	0.76	0.110	2.79	2.020	51.31	834	1241	1800	2679

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

Arctic-Flex®

XLPE/ARCTIC-PVC, Instrumentation, Shielded

600 V, UL Type TC, CSA Type CIC, Individual and Overall Shielded Pairs

Product Construction:

Conductor:

- 18 AWG and 16 AWG tinned, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white. One conductor in each pair is printed alpha-numerically for easy identification

Shield:

Individual and overall shielded pairs

- Individual pairs are 100% shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Arctic-grade Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (UL) TYPE TC ARCTIC-FLEX® FR-XLP/PVC XX SPS/STS XX AWG SHIELDED 90C WET OR DRY SUN RES DIR BUR 600 V - CSA TYPE CIC SHIELDED INSTRUMENTATION CABLE XLPE 90C WET OR DRY -40C FT4 PLUS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper
- Class C stranding
- E-2 Color Code
- CSA Rated TC for 14 AWG and larger
- Other constructions available upon request

Applications:

- Industrial lighting, control and signaling circuits
- Primary installations in cable trays, raceways or outdoor applications where supported by a messenger wire
- In wet or dry locations

Features:

- Rated 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Sunlight- and weather-resistant
- Meets CSA cold impact test at -40°C
- Meets ICEA and CSA cold bend test at -60°C

Compliances:

Industry Compliances:

- UL 1277 Type TC, UL File # E57179
- UL 1581
- CSA C22.2 No. 239 Type CIC

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- CSA FT4
- IEEE 383

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to lengths and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF PAIRS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

347830*	2	18	7/.0152	0.030	0.76	0.045	1.14	0.515	13.08	30	45	93	138
347840*	4	18	7/.0152	0.030	0.76	0.060	1.52	0.625	15.88	55	82	167	248
347850*	8	18	7/.0152	0.030	0.76	0.060	1.52	0.805	20.45	105	156	304	460
347860*	12	18	7/.0152	0.030	0.76	0.080	2.03	1.020	25.91	156	232	449	668
347870*	16	18	7/.0152	0.030	0.76	0.080	2.03	1.130	28.70	207	308	554	824
347880*	20	18	7/.0152	0.030	0.76	0.080	2.03	1.235	31.37	252	375	666	991
347890*	24	18	7/.0152	0.030	0.76	0.080	2.03	1.465	37.21	308	458	794	1182
347900*	36	18	7/.0152	0.030	0.76	0.080	2.03	1.630	41.40	461	686	1122	1670
347910*	50	18	7/.0152	0.030	0.76	0.110	2.79	1.975	50.17	640	952	1598	2378

INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG CONDUCTORS

347920*	2	16	7/.0192	0.030	0.76	0.060	1.52	0.595	15.11	42	63	132	196
347930*	4	16	7/.0192	0.030	0.76	0.060	1.52	0.695	17.65	80	119	212	315
347940*	8	16	7/.0192	0.030	0.76	0.060	1.52	0.900	22.86	155	231	395	588
347950*	12	16	7/.0192	0.030	0.76	0.080	2.03	1.110	28.19	230	342	578	860
347960*	16	16	7/.0192	0.030	0.76	0.080	2.03	1.260	32.00	306	455	733	1091
347970*	20	16	7/.0192	0.030	0.76	0.080	2.03	1.315	33.40	375	558	845	1258
347980*	24	16	7/.0192	0.030	0.76	0.080	2.03	1.510	38.35	456	679	1009	1502
347990*	36	16	7/.0192	0.030	0.76	0.110	2.79	1.820	46.23	674	1003	1259	1874
348000*	50	16	7/.0192	0.030	0.76	0.110	2.79	2.095	53.21	946	1408	2032	3024

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

CVTC®

XLPE/PVC, Instrumentation, Shielded
600 V, UL Type TC, Overall Shielded Pairs/Triads



Product Construction:

Conductor:

- 18 AWG and 16 AWG bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:

Overall shielded pairs/triads

- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) CVTC® XX/PS/TS XXAWG FR-XLP/PVC SHIELDED (UL) TYPE TC 90°C WET OR DRY DIR BUR SUN RES 600 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 300 V Type PLTC
- Tinned copper conductor
- Class C stranding
- Individual and overall shielded pairs/triads
- EVTC—Ethylene Propylene Rubber (EPR) insulation
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Abrasion- and chemical-resistant
- Excellent electrical properties
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1277 Type TC, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF PAIRS/TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELDED PAIRS/TRIADS

18 AWG CONDUCTORS

366160*	1	18	7/.0152	0.030	0.76	0.045	1.14	0.315	8.00	12	18	46	68
337270*	1 TRI	18	7/.0152	0.030	0.76	0.045	1.14	0.340	8.64	18	26	58	86
337360*	2	18	7/.0152	0.030	0.76	0.045	1.14	0.450	11.43	23	34	88	131
337280*	4	18	7/.0152	0.030	0.76	0.045	1.14	0.560	14.22	44	65	144	214
337290*	8	18	7/.0152	0.030	0.76	0.060	1.52	0.750	19.05	94	140	263	391
337300*	12	18	7/.0152	0.030	0.76	0.080	2.03	0.850	21.59	141	210	358	533
337310*	16	18	7/.0152	0.030	0.76	0.080	2.03	1.010	25.65	187	278	461	686
337320*	20	18	7/.0152	0.030	0.76	0.080	2.03	1.085	27.56	233	347	600	893
337330*	24	18	7/.0152	0.030	0.76	0.080	2.03	1.210	30.73	279	415	701	1043
337340*	36	18	7/.0152	0.030	0.76	0.080	2.03	1.500	38.10	418	622	1005	1496
337350*	50	18	7/.0152	0.030	0.76	0.080	2.03	2.570	65.28	580	863	1603	2386

OVERALL SHIELDED PAIRS/TRIADS

16 AWG CONDUCTORS

319810*	1	16	7/.0192	0.030	0.76	0.045	1.14	0.345	8.76	19	28	32	48
319870*	1 TRI	16	7/.0192	0.030	0.76	0.045	1.14	0.360	9.14	27	40	72	107
337370*	2	16	7/.0192	0.030	0.76	0.045	1.14	0.560	14.22	36	53	121	180
382260*	4	16	7/.0192	0.030	0.76	0.060	1.52	0.650	16.51	69	102	186	277
337390*	8	16	7/.0192	0.030	0.76	0.060	1.52	0.810	20.57	135	201	324	482
337400*	12	16	7/.0192	0.030	0.76	0.080	2.03	1.000	25.40	202	300	486	723
337410*	16	16	7/.0192	0.030	0.76	0.080	2.03	1.120	28.45	268	399	616	917
337420*	20	16	7/.0192	0.030	0.76	0.080	2.03	1.170	29.72	335	498	734	1092
337430*	24	16	7/.0192	0.030	0.76	0.080	2.03	1.440	36.58	401	597	894	1330
337440*	36	16	7/.0192	0.030	0.76	0.080	2.03	1.650	41.91	601	894	1254	1866
337450*	50	16	7/.0192	0.030	0.76	0.110	2.79	2.020	51.31	834	1241	1800	2679

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

CVTC®

XLPE/PVC, Instrumentation, Shielded 600 V, UL Type TC, Individual and Overall Shielded Pairs

Product Construction:

Conductor:

- 18 AWG and 16 AWG bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white. One conductor in each pair is printed alpha-numerically for easy identification

Shield:

Individual and overall shielded pairs

- Individual pairs are 100% shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) CVTC® XX/SPS XXAWG FR-XLP/PVC SHIELDED (UL) TYPE TC 90°C WET OR DRY DIR BUR SUN RES 600 V PLUS MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 300 V Type PLTC
- Tinned copper conductor
- Class C stranding
- Overall shielded pairs/triads
- EVTC—Ethylene Propylene Rubber (EPR) insulation
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Abrasion- and chemical-resistant
- Excellent electrical properties
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1277 Type TC, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF PAIRS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

319820*	2	18	7/0.152	0.030	0.76	0.045	1.14	0.515	13.08	28	41	95	141
319840*	4	18	7/0.152	0.030	0.76	0.060	1.52	0.625	15.88	53	53	170	253
319850*	8	18	7/0.152	0.030	0.76	0.060	1.52	0.805	20.45	104	155	292	435
337460*	12	18	7/0.152	0.030	0.76	0.080	2.03	1.020	25.91	155	231	442	658
337470*	16	18	7/0.152	0.030	0.76	0.080	2.03	1.130	28.70	206	307	554	824
337480*	20	18	7/0.152	0.030	0.76	0.080	2.03	1.235	31.37	254	378	666	991
337490*	24	18	7/0.152	0.030	0.76	0.080	2.03	1.465	37.21	308	459	802	1194
337500*	36	18	7/0.152	0.030	0.76	0.080	2.03	1.630	41.40	461	687	1116	1661
337510*	50	18	7/0.152	0.030	0.76	0.110	2.79	1.975	50.17	640	952	1598	2378

INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG CONDUCTORS

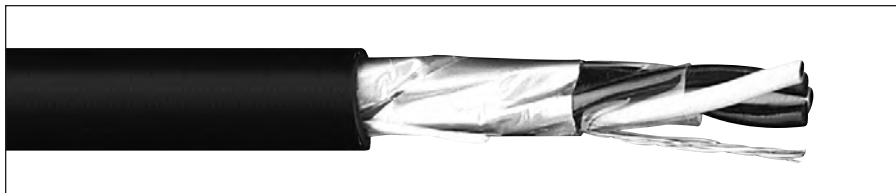
337520*	2	16	7/0.192	0.030	0.76	0.060	1.52	0.595	15.11	40	60	135	201
337530*	4	16	7/0.192	0.030	0.76	0.060	1.52	0.695	17.65	78	116	214	318
337540*	8	16	7/0.192	0.030	0.76	0.060	1.52	0.900	22.86	153	228	399	594
337550*	12	16	7/0.192	0.030	0.76	0.080	2.03	1.110	28.19	229	341	584	869
337560*	16	16	7/0.192	0.030	0.76	0.080	2.03	1.260	32.00	304	453	712	1060
337570*	20	16	7/0.192	0.030	0.76	0.080	2.03	1.315	33.40	380	566	845	1258
337580*	24	16	7/0.192	0.030	0.76	0.080	2.03	1.510	38.35	455	677	1009	1502
337590*	36	16	7/0.192	0.030	0.76	0.110	2.79	1.820	46.23	682	1014	1259	1874
337600*	50	16	7/0.192	0.030	0.76	0.110	2.79	2.095	53.21	946	1408	2032	3024

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

VNTC®

PVC/Nylon/PVC, Instrumentation, Shielded
600 V, UL Type TC, Overall Shielded Pairs/Triads



Product Construction:

Conductor:

- 18 AWG thru 14 AWG bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon)
- Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:

Overall shielded pairs/triads

- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) VNTC® XX/PS/TS XXAWG SHIELDED (UL) TYPE TC 600 V TFN SUN RES DIR BUR ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- Individual and overall shielded pairs/triads
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C dry, 75°C wet
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Provides sunlight, cold bend and cold impact resistance
- Offer the smallest cable O.D. available for suitable applications
- Provides excellent oil and chemical resistance
- Provides a long service life
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1277 Type TC, UL File # E57179
- UL 1581
- NEC Type TFN conductors
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF PAIRS/TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

**OVERALL SHIELDED PAIRS/TRIADS
18 AWG CONDUCTORS**

235020	1	18	7/.0152	0.020	0.51	0.045	1.14	0.280	7.11	12	19	41	61
239210	1 TRI	18	7/.0152	0.020	0.51	0.045	1.14	0.300	7.62	18	27	49	73
235910	2	18	7/.0152	0.020	0.51	0.045	1.14	0.440	11.18	23	34	72	107
319740*	3	18	7/.0152	0.020	0.51	0.045	1.14	0.465	11.81	33	50	90	134
235980	4	18	7/.0152	0.020	0.51	0.045	1.14	0.505	12.83	44	65	110	164
336830*	5	18	7/.0152	0.020	0.51	0.060	1.52	0.570	14.48	55	82	144	214
336840*	7	18	7/.0152	0.020	0.51	0.060	1.52	0.585	14.86	75	112	177	263
230760*	12	18	7/.0152	0.020	0.51	0.060	1.52	0.770	19.56	127	189	277	412
270970*	16	18	7/.0152	0.020	0.51	0.080	2.03	0.825	20.96	168	250	355	528
336850*	20	18	7/.0152	0.020	0.51	0.080	2.03	0.905	22.99	210	313	455	677
230750*	24	18	7/.0152	0.020	0.51	0.080	2.03	1.020	25.91	252	375	544	810
230800*	36	18	7/.0152	0.020	0.51	0.080	2.03	1.150	29.21	378	562	763	1135
336860*	50	18	7/.0152	0.020	0.51	0.080	2.03	1.405	35.69	525	781	1036	1542

**OVERALL SHIELDED PAIRS/TRIADS
16 AWG CONDUCTORS**

230830	1	16	7/.0192	0.020	0.51	0.045	1.14	0.300	7.62	20	29	52	77
230840	1 TRI	16	7/.0192	0.020	0.51	0.045	1.14	0.315	8.00	27	40	61	91
238410*	2	16	7/.0192	0.020	0.51	0.045	1.14	0.470	11.94	37	54	93	138
239200*	3	16	7/.0192	0.020	0.51	0.045	1.14	0.505	12.83	53	79	117	174
230790*	4	16	7/.0192	0.020	0.51	0.060	1.52	0.575	14.61	69	103	160	238
336870*	5	16	7/.0192	0.020	0.51	0.060	1.52	0.610	15.49	87	129	190	283
336880*	7	16	7/.0192	0.020	0.51	0.060	1.52	0.630	16.00	117	174	239	356
244590*	12	16	7/.0192	0.020	0.51	0.060	1.52	0.825	20.96	201	299	370	551
244610*	16	16	7/.0192	0.020	0.51	0.080	2.03	0.970	24.64	267	397	513	763
336890*	20	16	7/.0192	0.020	0.51	0.080	2.03	1.010	25.65	337	502	628	935
230780*	24	16	7/.0192	0.020	0.51	0.080	2.03	1.135	28.83	398	592	740	1101
230820*	36	16	7/.0192	0.020	0.51	0.080	2.03	1.375	34.93	595	886	1063	1582
230810*	50	16	7/.0192	0.020	0.51	0.080	2.03	1.570	39.88	833	1240	1435	2136

**OVERALL SHIELDED PAIRS/TRIADS
14 AWG CONDUCTORS**

237490	1	14	7/.0242	0.015	0.38	0.045	1.14	0.325	8.26	28	42	62	92
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Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



VNTC®

**PVC/Nylon/PVC, Instrumentation, Shielded
600 V, UL Type TC, Individual and Overall Shielded Pairs**

Product Construction:

Conductor:

- 18 AWG and 16 AWG bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon)
- Color-coded per ICEA Method 1: Pairs - black and white. One conductor in each pair is printed alpha-numerically for easy identification

Shield:

Individual and overall shielded pairs

- Individual pairs are 100% shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) VNTC® XX/SPS XXAWG SHIELDED (UL) TYPE TC 600 V TFN SUN RES DIR BUR ROHS PLUS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- Overall shielded pairs/triads
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C dry, 75°C wet
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Provides sunlight, cold bend and cold impact resistance
- Offer the smallest cable O.D. available for suitable applications
- Provides excellent oil and chemical resistance
- Provides a long service life
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1277 Type TC, UL File # E57179
- UL 1581
- NEC Type TFN conductors
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

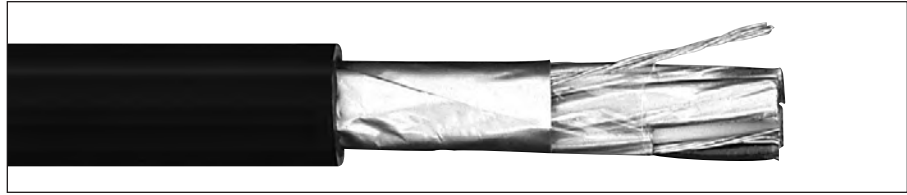
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF PAIRS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

**INDIVIDUAL AND OVERALL SHIELDED PAIRS
18 AWG CONDUCTORS**

235970*	2	18	7/0152	0.020	0.51	0.045	1.14	0.445	11.30	28	41	84	125
336900*	3	18	7/0152	0.020	0.51	0.045	1.14	0.480	12.19	46	68	106	158
235900*	4	18	7/0152	0.020	0.51	0.045	1.14	0.555	14.10	53	79	145	216
336910*	5	18	7/0152	0.020	0.51	0.060	1.52	0.580	14.73	74	110	169	252
336920*	7	18	7/0152	0.020	0.51	0.060	1.52	0.650	16.51	102	152	219	326
241020*	12	18	7/0152	0.020	0.51	0.060	1.52	0.845	21.46	193	287	390	506
336930*	16	18	7/0152	0.020	0.51	0.080	2.03	0.960	24.38	229	341	473	704
336940*	20	18	7/0152	0.020	0.51	0.080	2.03	1.050	26.67	283	421	594	884
241030*	24	18	7/0152	0.020	0.51	0.080	2.03	1.175	29.85	340	506	689	1025
243880*	36	18	7/0152	0.020	0.51	0.080	2.03	1.380	35.05	508	756	979	1457
256300*	50	18	7/0152	0.020	0.51	0.080	2.03	1.615	41.02	705	1049	1371	1960

**INDIVIDUAL AND OVERALL SHIELDED PAIRS
16 AWG CONDUCTORS**

237180	2	16	7/0192	0.020	0.51	0.045	1.14	0.495	12.57	44	65	105	156
235990*	3	16	7/0192	0.020	0.51	0.045	1.14	0.520	13.21	64	95	137	204
237160	4	16	7/0192	0.020	0.51	0.045	1.14	0.600	15.24	84	125	188	280
336950*	5	16	7/0192	0.020	0.51	0.060	1.52	0.655	16.64	105	157	224	333
336960*	7	16	7/0192	0.020	0.51	0.060	1.52	0.710	18.03	145	216	290	432
235750	8	16	7/0192	0.020	0.51	0.060	1.52	0.760	19.30	155	224	307	457
242870	12	16	7/0192	0.020	0.51	0.060	1.52	0.940	23.88	244	363	498	741
237130*	16	16	7/0192	0.020	0.51	0.080	2.03	1.055	26.80	324	482	635	945
277820*	20	16	7/0192	0.020	0.51	0.080	2.03	1.175	29.85	407	605	768	1143
242860*	24	16	7/0192	0.020	0.51	0.080	2.03	1.350	34.29	486	724	903	1344
243890*	36	16	7/0192	0.020	0.51	0.080	2.03	1.480	37.59	732	1089	1290	1920
244600*	50	16	7/0192	0.020	0.51	0.080	2.03	1.810	45.97	1011	1504	1809	2692

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

GenFree®

XLPE/LSZH, Instrumentation, Shielded
600 V, UL Type TC-LS, Overall Shielded Pairs/Triads



Product Construction:

Conductor:

- 18 AWG and 16 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant, low-smoke Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white; Triads - black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification

Shield:

Overall shielded pairs/triads

- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print:

- GENERAL CABLE® (PLANT OF MFG) GENFREE® XX/PS/TS XXAWG XLPE/LSZH SHIELDED (UL) TYPE TC-LS 90°C WET OR DRY 600 V DIR BUR SUN RES ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Class C stranding
- Individual and overall shielded pairs/triads
- Other constructions available upon request

Applications:

- In free air, raceways, aerial or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression and impact
- Chemical-resistant
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -30°C
- Low-Smoke, Zero-Halogen jacket is environmentally safe
- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire

Compliances:

Industry Compliances:

- UL 1277 Type TC-LS, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57
- ICEA T-33-655
- RoHS Compliant

Flame Test Compliances:

- UL 1581
- UL 1685 Vertical Flame Test
- IEEE 1202

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF PAIRS/TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELDED PAIRS/TRIADS

18 AWG CONDUCTORS

393710*	1	18	7/.0152	0.030	0.76	0.045	1.14	0.315	8.00	13	19	46	68
393720*	1 TRI	18	7/.0152	0.030	0.76	0.045	1.14	0.340	8.64	18	26	58	86
393730*	2	18	7/.0152	0.030	0.76	0.045	1.14	0.450	11.43	23	34	88	131
393740*	4	18	7/.0152	0.030	0.76	0.045	1.14	0.560	14.22	44	65	144	214
393750*	8	18	7/.0152	0.030	0.76	0.060	1.52	0.750	19.05	86	127	263	391
393760*	12	18	7/.0152	0.030	0.76	0.080	2.03	0.850	21.59	127	189	358	533
393770*	16	18	7/.0152	0.030	0.76	0.080	2.03	1.010	25.65	169	251	461	686
393780*	20	18	7/.0152	0.030	0.76	0.080	2.03	1.085	27.56	210	313	600	893
393790*	24	18	7/.0152	0.030	0.76	0.080	2.03	1.210	30.73	252	375	701	1043
393800*	36	18	7/.0152	0.030	0.76	0.080	2.03	1.500	38.10	377	561	1005	1496
393810*	50	18	7/.0152	0.030	0.76	0.080	2.03	2.570	65.28	523	778	1603	2386

OVERALL SHIELDED PAIRS/TRIADS

16 AWG CONDUCTORS

393820	1	16	7/.0192	0.030	0.76	0.045	1.14	0.345	8.76	18	28	32	48
393830	1 TRI	16	7/.0192	0.030	0.76	0.045	1.14	0.360	9.14	26	39	72	107
393840*	2	16	7/.0192	0.030	0.76	0.045	1.14	0.560	14.22	36	54	121	180
393850*	4	16	7/.0192	0.030	0.76	0.060	1.52	0.650	16.51	69	103	186	277
393860*	8	16	7/.0192	0.030	0.76	0.060	1.52	0.810	20.57	135	201	324	482
393870*	12	16	7/.0192	0.030	0.76	0.080	2.03	1.000	25.40	202	300	486	723
393880*	16	16	7/.0192	0.030	0.76	0.080	2.03	1.120	28.45	268	399	616	917
393890*	20	16	7/.0192	0.030	0.76	0.080	2.03	1.170	29.72	335	498	734	1092
393900*	24	16	7/.0192	0.030	0.76	0.080	2.03	1.440	36.58	401	597	894	1330
393910*	36	16	7/.0192	0.030	0.76	0.080	2.03	1.650	41.91	601	894	1254	1866
393920*	50	16	7/.0192	0.030	0.76	0.110	2.79	2.020	51.31	834	1241	1800	2679

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

GenFree®

XLPE/LSZH, Instrumentation, Shielded 600 V, UL Type TC-LS, Individual and Overall Shielded Pairs

Product Construction:

Conductor:

- 18 AWG and 16 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant, low-smoke Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Pairs - black and white. One conductor in each pair is printed alpha-numerically for easy identification

Shield:

Individual and overall shielded pairs

- Individual pairs are 100% individually shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print:

- GENERAL CABLE® (PLANT OF MFG) GENFREE® XX/SPS XXAWG XLPE/LSZH SHIELDED (UL) TYPE TC-LS 90°C WET OR DRY 600 V DIR BUR SUN RES ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Class C stranding
- Overall shielded pairs
- Other constructions available upon request

Applications:

- In free air, raceways, aerial or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression and impact
- Chemical-resistant
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -30°C
- Low-Smoke, Zero-Halogen jacket is environmentally safe
- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire

Compliances:

Industry Compliances:

- UL 1277 Type TC-LS, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57
- ICEA T-33-655
- RoHS Compliant

Flame Test Compliances:

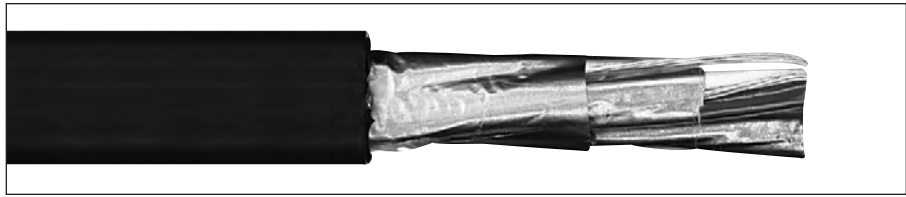
- UL 1581
- UL 1685 Vertical Flame Test
- IEEE 1202

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF PAIRS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

393930	2	18	7/0152	0.030	0.76	0.045	1.14	0.510	12.95	27	41	92	137
393940	4	18	7/0152	0.030	0.76	0.060	1.52	0.630	16.00	53	78	167	249
393950*	8	18	7/0152	0.030	0.76	0.080	2.03	0.855	21.72	103	153	326	485
393960*	12	18	7/0152	0.030	0.76	0.080	2.03	1.030	26.16	153	228	441	656
393970*	16	18	7/0152	0.030	0.76	0.080	2.03	1.140	28.96	206	307	554	824
393980*	20	18	7/0152	0.030	0.76	0.080	2.03	1.265	32.13	254	378	676	1006
393990*	24	18	7/0152	0.030	0.76	0.080	2.03	1.450	36.83	311	463	795	1183
394000*	36	18	7/0152	0.030	0.76	0.1010	2.79	1.650	41.91	461	687	1118	1664
394010*	50	18	7/0152	0.030	0.76	0.1010	2.79	2.085	52.96	640	952	1616	2405

INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG CONDUCTORS

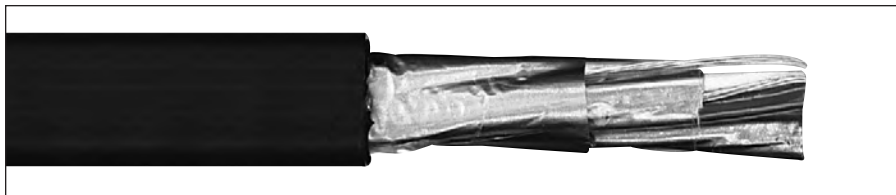
394020	2	16	7/0192	0.030	0.76	0.060	1.52	0.585	14.86	40	59	130	193
394030	4	16	7/0192	0.030	0.76	0.060	1.52	0.675	17.15	77	114	204	304
394040	6	16	7/0192	0.030	0.76	0.060	1.52	0.800	20.32	115	171	301	447
394050	8	16	7/0192	0.030	0.76	0.080	2.03	0.915	23.24	151	225	394	586
394060	12	16	7/0192	0.030	0.76	0.080	2.03	1.110	28.19	226	337	548	816
394070*	16	16	7/0192	0.030	0.76	0.080	2.03	1.350	34.29	305	453	713	1061
394080*	20	16	7/0192	0.030	0.76	0.080	2.03	1.365	34.67	380	566	850	1265
394090*	24	16	7/0192	0.030	0.76	0.080	2.03	1.570	39.88	455	677	1001	1490
394100*	36	16	7/0192	0.030	0.76	0.110	2.79	1.980	50.29	683	1016	1548	2304
394110*	50	16	7/0192	0.030	0.76	0.110	2.79	2.165	54.99	946	1408	2020	3006

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

GenFree®

XLPE/LSZH, Instrumentation, Shielded
600 V, UL Type TC-LS, Individual and Overall Shielded Triads



Product Construction:

Conductor:

- 18 AWG and 16 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant, low-smoke Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1: Triads - black, white and red. One conductor in each triad is printed alpha-numerically for easy identification

Shield:

- **Individual and overall shielded triads**
- Individual triads are 100% shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print:

- GENERAL CABLE® (PLANT OF MFG) GENFREE® XX/STS XXAWG XLPE/LSZH SHIELDED (UL) TYPE TC-LS 90°C WET OR DRY 600 V DIR BUR SUN RES ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Class C stranding
- Overall shielded pairs/triads
- Other constructions available upon request

Applications:

- In free air, raceways, aerial or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression and impact
- Chemical-resistant
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -30°C
- Low-Smoke, Zero-Halogen jacket is environmentally safe
- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire

Compliances:

Industry Compliances:

- UL 1277 Type TC-LS, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57
- ICEA T-33-655
- RoHS Compliant

Flame Test Compliances:

- UL 1581
- UL 1685 Vertical Flame Test
- IEEE 1202

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED TRIADS 18 AWG CONDUCTORS

394120*	2 TRI	18	7/.0152	0.030	0.76	0.060	1.52	0.595	15.11	38	57	150	223
394130*	4 TRI	18	7/.0152	0.030	0.76	0.060	1.52	0.690	17.53	74	110	231	344
394140*	8 TRI	18	7/.0152	0.030	0.76	0.080	2.03	0.940	23.88	145	216	435	647
394150*	12 TRI	18	7/.0152	0.030	0.76	0.080	2.03	1.135	28.83	217	323	612	911
394160*	16 TRI	18	7/.0152	0.030	0.76	0.080	2.03	1.265	32.13	289	430	773	1150
394170*	20 TRI	18	7/.0152	0.030	0.76	0.080	2.03	1.405	35.69	361	537	935	1391
394180*	24 TRI	18	7/.0152	0.030	0.76	0.080	2.03	1.565	39.75	432	643	1097	1633
394190*	36 TRI	18	7/.0152	0.030	0.76	0.110	2.79	1.860	47.24	647	963	1662	2473

INDIVIDUAL AND OVERALL SHIELDED TRIADS 16 AWG CONDUCTORS

394200*	2 TRI	16	7/.0192	0.030	0.76	0.060	1.52	0.640	16.26	57	84	183	272
394210*	4 TRI	16	7/.0192	0.030	0.76	0.060	1.52	0.745	18.92	111	165	494	735
394220*	8 TRI	16	7/.0192	0.030	0.76	0.080	2.03	1.015	25.78	219	326	549	817
394230*	12 TRI	16	7/.0192	0.030	0.76	0.080	2.03	1.230	31.24	328	487	777	1156
394240*	16 TRI	16	7/.0192	0.030	0.76	0.080	2.03	1.370	34.80	437	650	988	1470
394250*	20 TRI	16	7/.0192	0.030	0.76	0.080	2.03	1.525	38.74	545	811	1120	1667
394260*	24 TRI	16	7/.0192	0.030	0.76	0.110	2.79	1.760	44.70	654	973	1530	2277
394270*	36 TRI	16	7/.0192	0.030	0.76	0.110	2.79	2.015	51.18	979	1457	2142	3188

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

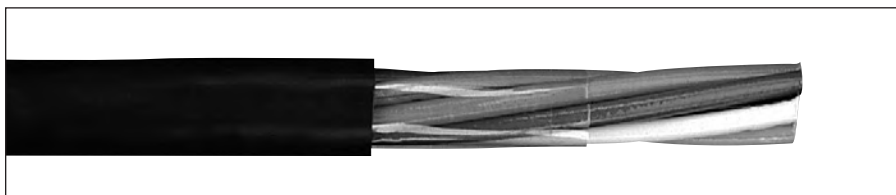


600 V Flexible Control and Power Cables

SPECIFICATION NO.		PRODUCT DESCRIPTION	REVISION DATE
3150	NVN®	PVC/Nylon/Neoprene, Thermoset Flexible Control 600 V, UL Type TC	Jan. 2010
3250	MTW	PVC/Nylon/PVC, Thermoplastic Flexible Control 600 V, UL Type MTW/CSA AWM	Jan. 2010
3300	Festoon	PVC/PVC, Thermoplastic Extreme Flexing Festoon Control and Power 600 V, UL/CSA Type Festoon	Jan. 2010

NVN[®]

PVC/Nylon/Neoprene, Thermoset Flexible Control
600 V, UL Type TC



Product Construction:

Conductor:

- 18 AWG thru 12 AWG fully annealed stranded bare copper per ASTM B3
- Class C stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon)
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

Jacket:

- Thermosetting Neoprene

Print:

- GENERAL CABLE[®] BRAND REX BRAND (PLANT OF MFG) NVN 90°C FLEXIBLE CONTROL CABLE 600 V TYPE TC SUN RES XX/C XXAWG (TFFN) OR (THHN/THWN) (UL)

Applications:

- Tight installations
- Trays, conduits and raceways
- Cranes and hoists
- Pendant stations
- Load lifts and platforms
- Recommended for moderate flex applications

Features:

- Rated at 90°C
- Moderate flex cable
- Small diameter
- Thermosetting rubber jacket
- Flame-retardant
- Suitable for indoor and outdoor applications
- Meets cold bend test at -40°C

Compliances:

- Industry Compliances:**
- UL Type TC - 600 V, UL File # E57179

Flame Test Compliances:

- IEEE 1202 (70,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		MINIMUM BEND RADIS	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	INCHES	mm

18 AWG CONDUCTORS

554420*	4	18	19/.0092	0.020	0.51	0.045	1.14	0.310	7.87	21	31	65	97	2.5	63.5
624740*	8	18	19/.0092	0.020	0.51	0.045	1.14	0.420	10.67	42	63	116	173	3.3	83.8
624750*	10	18	19/.0092	0.020	0.51	0.045	1.14	0.450	11.43	53	79	135	201	3.6	91.5
624760*	12	18	19/.0092	0.020	0.51	0.045	1.14	0.465	11.81	63	94	137	204	3.7	94.0
624010*	16	18	19/.0092	0.020	0.51	0.045	1.14	0.515	13.08	85	126	175	260	4.1	104.1
624780*	19	18	19/.0092	0.020	0.51	0.060	1.52	0.570	14.48	100	149	192	286	4.6	116.8
624790*	24	18	19/.0092	0.020	0.51	0.060	1.52	0.660	16.76	127	189	297	442	5.3	134.6
686890*	30	18	19/.0092	0.020	0.51	0.060	1.52	0.695	17.65	158	235	345	513	5.6	142.2

16 AWG CONDUCTORS

625160*	4	16	19/.0117	0.020	0.51	0.045	1.14	0.345	8.76	33	49	85	126	2.8	71.1
625200*	8	16	19/.0117	0.020	0.51	0.045	1.14	0.465	11.81	66	98	153	228	3.7	94.0
625220*	10	16	19/.0117	0.020	0.51	0.045	1.14	0.500	12.70	83	124	179	266	4.0	101.6
625230*	12	16	19/.0117	0.020	0.51	0.045	1.14	0.520	13.21	100	149	186	277	4.2	106.7
625250*	16	16	19/.0117	0.020	0.51	0.045	1.14	0.605	15.37	133	198	257	382	4.8	121.9
625270*	19	16	19/.0117	0.020	0.51	0.060	1.52	0.635	16.13	158	235	320	476	5.1	129.5
625280*	24	16	19/.0117	0.020	0.51	0.060	1.52	0.735	18.67	199	296	403	600	5.9	149.9
625290*	30	16	19/.0117	0.020	0.51	0.060	1.52	0.775	19.69	249	371	476	708	6.2	157.5

14 AWG CONDUCTORS

624950*	4	14	19/.0147	0.020	0.51	0.045	1.14	0.375	9.53	53	79	117	174	3.0	76.2
624980*	8	14	19/.0147	0.020	0.51	0.045	1.14	0.485	12.32	105	156	181	269	3.9	99.1
624990*	10	14	19/.0147	0.020	0.51	0.060	1.52	0.595	15.11	132	196	270	402	4.8	121.9
625000*	12	14	19/.0147	0.020	0.51	0.060	1.52	0.615	15.62	158	235	278	414	4.9	124.5
625020*	16	14	19/.0147	0.020	0.51	0.060	1.52	0.675	17.15	210	313	353	525	5.4	137.2
625030*	19	14	19/.0147	0.020	0.51	0.060	1.52	0.710	18.03	250	372	449	668	5.7	144.8
625040*	24	14	19/.0147	0.020	0.51	0.060	1.52	0.825	20.96	316	470	565	841	6.6	167.6
625050*	30	14	19/.0147	0.020	0.51	0.080	2.03	0.920	23.37	394	586	727	1082	7.4	188.0

12 AWG CONDUCTORS

324820*	4	12	19/.0185	0.020	0.51	0.045	1.14	0.420	10.67	84	125	157	234	3.4	86.4
624850*	8	12	19/.0185	0.020	0.51	0.060	1.52	0.575	14.61	167	249	272	405	4.6	116.9
624860*	10	12	19/.0185	0.020	0.51	0.060	1.52	0.670	17.02	209	311	369	549	5.4	137.2
624870*	12	12	19/.0185	0.020	0.51	0.060	1.52	0.690	17.53	250	372	389	579	5.5	139.7
624890*	16	12	19/.0185	0.020	0.51	0.060	1.52	0.765	19.43	334	497	503	749	6.1	155.0
624900*	19	12	19/.0185	0.020	0.51	0.060	1.52	0.805	20.45	397	591	638	949	6.5	165.1
624910*	24	12	19/.0185	0.020	0.51	0.080	2.03	0.980	24.89	501	746	841	1252	7.8	198.1
624920*	30	12	19/.0185	0.020	0.51	0.080	2.03	1.040	26.42	626	932	1017	1513	8.3	210.8

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

MTW

PVC/Nylon/PVC, Thermoplastic Flexible Control 600 V, UL Type MTW/CSA AWM

Product Construction:

Conductor:

- 18 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class M-18 AWG thru 16 AWG
- Class K-14 AWG thru 10 AWG
- Stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon)
- Color-coded: all conductors red, except #2 is white and #3 is green. All with alpha-numeric designations

Jacket:

- Heat-, moisture- and oil-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® BRAND REX BRAND (PLANT OF MFG) TYPE MTW FLEXING 600 V (UL) NO OF COND/AWG SIZE/CSA AWM IIA 90°C 600 V FT1

Applications:

- Pendant cable
- Machine tool
- Internal machine connections
- Material handling equipment
- Moderate flex

Features:

- Rated at 90°C
- Moisture- and oil-resistant
- Heavy-duty PVC jacket
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

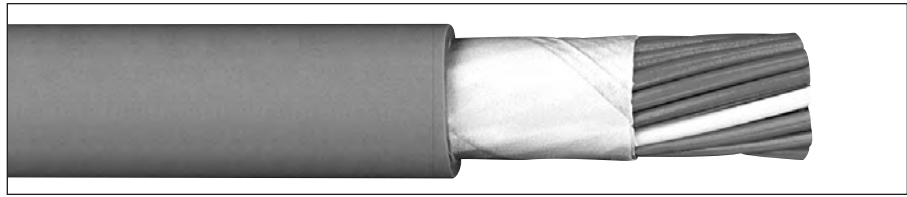
- UL Type MTW/CSA AWM

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		MINIMUM BEND RADIUS	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	INCHES	mm

18 AWG CONDUCTORS

339170*	6	18	41/34	0.020	0.51	0.045	1.14	0.400	10.16	32	48	88	131	3.0	76.2
339180*	8	18	41/34	0.020	0.51	0.045	1.14	0.455	11.56	42	63	108	161	3.5	88.9
339190*	12	18	41/34	0.020	0.51	0.045	1.14	0.500	12.70	63	94	144	214	4.0	101.6
339200*	16	18	41/34	0.020	0.51	0.060	1.52	0.580	14.73	84	125	196	292	4.5	114.3
339210*	22	18	41/34	0.020	0.51	0.060	1.52	0.660	16.76	116	173	252	375	5.0	127.0
339220*	31	18	41/34	0.020	0.51	0.060	1.52	0.760	19.30	163	243	325	484	6.0	152.4
339230*	41	18	41/34	0.020	0.51	0.080	2.03	0.890	22.61	216	321	460	685	7.0	177.8
339240*	60	18	41/34	0.020	0.51	0.080	2.03	1.010	25.65	316	470	617	918	8.0	203.2

16 AWG CONDUCTORS

339250*	6	16	65/34	0.020	0.51	0.045	1.14	0.440	11.18	50	74	113	168	3.5	88.9
339260*	8	16	65/34	0.020	0.51	0.045	1.14	0.500	12.70	66	98	141	210	4.0	101.6
339270*	12	16	65/34	0.020	0.51	0.060	1.52	0.585	14.86	99	147	214	318	4.5	114.3
339280*	16	16	65/34	0.020	0.51	0.060	1.52	0.640	16.26	132	196	263	391	5.0	127.0
339290*	22	16	65/34	0.020	0.51	0.060	1.52	0.735	18.67	182	271	377	561	5.5	139.7
339300*	31	16	65/34	0.020	0.51	0.060	1.52	0.845	21.46	256	381	518	771	6.5	165.1
339310*	41	16	65/34	0.020	0.51	0.080	2.03	0.995	25.27	339	504	652	970	8.0	203.2
339320*	60	16	65/34	0.020	0.51	0.080	2.03	1.125	28.58	496	738	909	1353	9.0	228.2

14 AWG CONDUCTORS

339330*	6	14	41/30	0.020	0.51	0.045	1.14	0.470	11.94	80	119	149	222	3.5	88.9
339340*	8	14	41/30	0.020	0.51	0.060	1.52	0.570	14.48	107	159	204	304	4.5	114.3
339350*	12	14	41/30	0.020	0.51	0.060	1.52	0.630	16.00	160	238	279	415	5.0	127.0
339360*	16	14	41/30	0.020	0.51	0.060	1.52	0.690	17.53	213	317	354	527	5.5	139.7
339370*	22	14	41/30	0.020	0.51	0.060	1.52	0.795	20.19	293	436	467	695	6.0	152.4

12 AWG CONDUCTORS

339380*	6	12	65/30	0.020	0.51	0.060	1.52	0.565	14.35	129	192	226	336	4.5	114.3
339390*	8	12	65/30	0.020	0.51	0.060	1.52	0.645	16.38	172	256	289	430	5.0	127.0
339400*	12	12	65/30	0.020	0.51	0.060	1.52	0.715	18.16	258	384	398	592	5.5	139.7
339410*	16	12	65/30	0.020	0.51	0.060	1.52	0.790	20.07	344	512	506	753	6.0	152.4
339420*	22	12	65/30	0.020	0.51	0.080	2.03	0.955	24.26	473	704	720	1072	7.5	190.0

10 AWG CONDUCTORS

339430*	6	10	105/30	0.026	0.66	0.060	1.52	0.665	16.89	205	305	329	490	5.0	127.0
339440*	8	10	105/30	0.026	0.66	0.060	1.52	0.765	19.43	274	408	424	631	6.0	152.4
339450*	12	10	105/30	0.026	0.66	0.080	2.03	0.895	22.73	411	612	604	899	7.0	177.8
339460*	16	10	105/30	0.026	0.66	0.080	2.03	1.155	29.34	548	816	852	1268	9.0	228.6

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

Festoon

PVC/PVC, Thermoplastic Extreme Flexing Festoon Control and Power
600 V, UL/CSA Type Festoon



Product Construction:

Conductor:

- 16 AWG thru 2 AWG fully annealed stranded bare copper per ASTM B3
- Class M - 16 AWG
- Class K - 14 AWG thru 2 AWG
- Stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC)
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green). All with alpha-numeric designations

Jacket:

- Flame-retardant Polyvinyl Chloride (PVC), yellow or black

Print:

- E-24573 PVC T-XXXXX 105°C 600 V VW-1 (UL)-FESTOON CABLE OUTDOOR XX/C XX/AWG-CSA LL9755 105°C 600 V FT1

Applications:

- Cranes and hoists
- Festooning systems
- Track systems
- Robots
- Conveyors
- Telescoping jetways

Features:

- Rated at 105°C
- Designed for continuous extreme flexing applications
- Anti-coiling in festoon applications
- Small bending radii
- Flat construction allows for stacking
- Oil- and chemical-resistant
- Indoor or outdoor use
- Meets cold bend test at -55°C

Compliances:

- Industry Compliances:**
 - UL listed/CSA certified flat festoon cable
- Flame Test Compliances:**
 - UL VW-1/CSA FT1
- Other Compliances:**
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP method
 - OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
16 AWG CONDUCTORS													
‡245310*	4	16	65/34	0.030	0.76	0.035	0.89	0.200 x 0.580	5.1 x 14.73	31.92	47.05	91	135
419630*	4	16	65/34	0.030	0.76	0.035	0.89	0.200 x 0.580	5.1 x 14.73	31.92	47.05	91	135
‡245320*	8	16	65/34	0.030	0.76	0.035	0.89	0.200 x 1.110	5.1 x 28.20	63.84	95.00	173	257
404010*	8	16	65/34	0.030	0.76	0.035	0.89	0.200 x 1.110	5.1 x 28.20	63.84	95.00	173	257
‡245330*	12	16	65/34	0.030	0.76	0.035	0.89	0.200 x 1.605	5.1 x 40.77	95.76	142.50	253	377
404020*	12	16	65/34	0.030	0.76	0.035	0.89	0.200 x 1.605	5.1 x 40.77	95.76	142.50	253	377
14 AWG CONDUCTORS													
‡245340*	4	14	41/30	0.030	0.76	0.035	0.89	0.210 x 0.710	5.33 x 18.54	51.52	76.67	116	173
404030*	4	14	41/30	0.030	0.76	0.035	0.89	0.210 x 0.710	5.33 x 18.54	51.52	76.67	116	173
‡245350*	8	14	41/30	0.030	0.76	0.035	0.89	0.210 x 1.175	5.33 x 29.85	103.04	153.33	224	333
404090*	8	14	41/30	0.030	0.76	0.035	0.89	0.210 x 1.175	5.33 x 29.85	103.04	153.33	224	333
‡245360*	12	14	41/30	0.030	0.76	0.035	0.89	0.210 x 1.700	5.33 x 43.18	154.56	230.00	330	491
403990*	12	14	41/30	0.030	0.76	0.035	0.89	0.210 x 1.700	5.33 x 43.18	154.56	230.00	330	491
12 AWG CONDUCTORS													
‡245370*	4	12	65/30	0.030	0.76	0.035	0.89	0.230 x 0.710	5.84 x 18.54	83.04	123.57	160	238
404040*	4	12	65/30	0.030	0.76	0.035	0.89	0.230 x 0.710	5.84 x 18.54	83.04	123.57	160	238
‡245380*	5	12	65/30	0.030	0.76	0.035	0.89	0.230 x 0.865	5.84 x 21.97	103.80	154.47	195	290
238800*	5	12	65/30	0.030	0.76	0.035	0.89	0.230 x 0.865	5.84 x 21.97	103.80	154.47	195	290
‡365680*	7	12	65/30	0.030	0.76	0.035	0.89	0.230 x 1.340	5.84 x 34.04	145.32	216.25	271	403
404080*	7	12	65/30	0.030	0.76	0.035	0.89	0.230 x 1.340	5.84 x 34.04	145.32	216.25	271	403
‡245390*	8	12	65/30	0.030	0.76	0.035	0.89	0.230 x 1.650	5.84 x 41.91	166.08	247.14	307	457
404330*	8	12	65/30	0.030	0.76	0.035	0.89	0.230 x 1.650	5.84 x 41.91	166.08	247.14	307	457
10 AWG CONDUCTORS													
‡245400*	4	10	105/30	0.030	0.76	0.045	1.14	0.270 x 0.880	6.86 x 22.35	132.32	196.91	241	359
404000*	4	10	105/30	0.030	0.76	0.045	1.14	0.270 x 0.880	6.86 x 22.35	132.32	196.91	241	359
8 AWG CONDUCTORS													
‡245410*	4	8	168/30	0.045	1.14	0.045	1.14	0.365 x 1.190	9.27 x 30.23	212.40	316.07	405	603
406320*	4	8	168/30	0.045	1.14	0.045	1.14	0.365 x 1.190	9.27 x 30.23	212.40	316.07	405	603
6 AWG CONDUCTORS													
‡245420*	4	6	266/30	0.060	1.52	0.045	1.14	0.430 x 1.450	10.92 x 36.83	332.88	495.36	612	911
404050*	4	6	266/30	0.060	1.52	0.045	1.14	0.430 x 1.450	10.92 x 36.83	332.88	495.36	612	911
‡332010*	5	6	266/30	0.060	1.52	0.045	1.14	0.430 x 1.735	10.92 x 44.07	416.10	619.20	747	1112
434680*	5	6	266/30	0.060	1.52	0.045	1.14	0.430 x 1.735	10.92 x 44.07	416.10	619.20	747	1112
4 AWG CONDUCTORS													
‡245440*	4	4	420/30	0.060	1.52	0.045	1.14	0.490 x 1.690	12.45 x 42.93	560.00	833.34	750	1116
404060*	4	4	420/30	0.060	1.52	0.045	1.14	0.490 x 1.690	12.45 x 42.93	560.00	833.34	750	1116
2 AWG CONDUCTORS													
‡245450*	4	2	665/30	0.060	1.52	0.045	1.14	0.560 x 1.955	14.23 x 49.66	852.00	1267.86	1273	1894
404070*	4	2	665/30	0.060	1.52	0.045	1.14	0.560 x 1.955	14.23 x 49.66	852.00	1267.86	1273	1894

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

‡ Indicates black jacketed cables.



600 V Multi-Conductor Control and Power Cables

SPECIFICATION NO.		PRODUCT DESCRIPTION	REVISION DATE
4050 [†]	CHTC [®]	XLPE/XL-CPE, Control, Unshielded 600 V, UL Type TC—E-2 Color Code	Mar. 2012
4075 [†]	CHTC [®]	XLPE/XL-CPE, Control, Unshielded 600 V, UL Type TC—E-1 Color Code	Mar. 2012
4100 [†]	CHTC [®]	XLPE/XL-CPE, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4150	EHTC [®]	FR-EPR/XL-CPE, Control, Unshielded 600 V, UL Type TC (18 AWG/16 AWG)—E-2 Color Code	Mar. 2012
4200	EHTC [®]	FR-EPR/XL-CPE, Control, Unshielded 600 V, UL Type TC (14 AWG—10 AWG)—E-2 Color Code	Mar. 2012
4250	EHTC [®]	FR-EPR/XL-CPE, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4300 [†]	FREP [®]	FR-EPR/CPE, Control, Unshielded 600 V, UL Type TC-ER—E-2 Color Code	Mar. 2012
4310 [†]	FREP [®]	FR-EPR/CPE, Control, Unshielded 600 V, UL Type TC-ER—E-1 Color Code	Mar. 2012
4325 [†]	FREP [®]	FR-EPR/CPE, Control, Shielded 600 V, UL Type TC-ER, Overall Shielded—E-2 Color Code	Mar. 2012
4350 [†]	FREP [®]	FR-EPR/CPE, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4400	Arctic-Flex [®]	XLPE/Arctic-PVC, Control, Unshielded 600 V, UL Type TC-ER, CSA Type RW90 XLPE, CSA Type TC	Mar. 2012
4450	Arctic-Flex [®]	XLPE/Arctic-PVC, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER, CSA Type RW90 XLPE, CSA Type TC	Mar. 2012
4460 [†]	CCTC [™]	FR-XLPE/CPE, Control, Shielded 600 V, UL Type TC-ER—E-1 Color Code	Mar. 2012
4480 [†]	CCTC [™]	FR-XLPE/CPE, Low-Voltage Power, Shielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4500 [†]	CVTC [®]	XLPE/PVC, Control, Unshielded 600 V, UL Type TC-ER—E-2 Color Code	Mar. 2012
4550 [†]	CVTC [®]	XLPE/PVC, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4575	CVTC [®] VFD	XLPE/PVC, Low-Voltage Power, Shielded 2000 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4580 [†]	CVTC [®] VFD	XLPE/PVC, Low-Voltage Power, Copper Tape Shielded 2000 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012

[†]Indicates these products are stocked by General Cable



600 V Multi-Conductor Control and Power Cables

SPECIFICATION NO.		PRODUCT DESCRIPTION	REVISION DATE
4600 [†]	VNTC [®]	PVC/Nylon/PVC, Control, Unshielded 600 V, UL Type TC-ER (18 AWG/16 AWG)—E-2 Color Code	Mar. 2012
4650 [†]	VNTC [®]	PVC/Nylon/PVC, Control, Unshielded 600 V, UL Type TC-ER (14 AWG—10 AWG)—E-2 Color Code	Mar. 2012
4700 [†]	VNTC [®]	PVC/Nylon/PVC, Control, Shielded 600 V, UL Type TC-ER, Overall Shielded—E-2 Color Code	Mar. 2012
4750 [†]	VNTC [®]	PVC/Nylon/PVC, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER—Method 4 Color Code	Mar. 2012
4800	20/10	PE/PVC/PVC, Control, Unshielded 600 V (18 AWG/16 AWG)—E-1 Color Code	Jul. 2010
4850	20/10	PE/PVC/PVC, Control, Unshielded 600 V (14 AWG—10 AWG)—E-1 Color Code	Jul. 2010
4900 [†]	GenFree [®]	XLPE/LSZH, Control 600 V, UL Type TC-LS-ER—E-2 Color Code	Mar. 2012
4925	GenFree [®]	XLPE/LSZH, Control, Shielded 600 V, UL Type TC-LS-ER, Overall Shielded—E-2 Color Code	Mar. 2012
4950 [†]	GenFree [®]	XLPE/LSZH, Low-Voltage Power, Unshielded 600 V, UL Type TC-LS-ER—Method 4 Color Code	Mar. 2012

[†]Indicates these products are stocked by General Cable

CHTC®

XLPE/XL-CPE, Control, Unshielded
600 V, UL Type TC—E-2 Color Code

Product Construction:

Conductor:

- 16 AWG thru 10 AWG fully annealed stranded tinned copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1, Table E-2 plus alpha-numeric printed numbers (does not include white or green)

Jacket:

- Lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print

- GENERAL CABLE® (PLANT OF MFG) CHTC® XX/C XXAWG CU/XLP/XL-CPE (UL) TYPE TC XHHW-2 CDRS DIR BUR SUN RES OIL RES I & II 600 V DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Bare copper conductor
- Class C stranding
- E-1 Color Code—see Spec 4075
- Overall shielded multi-conductor
- Ethylene Propylene Rubber (EPR) insulation—see EHTC® Spec 4200
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Flame-retardant Polyvinyl Chloride (PVC) jacket—see CVTC® Spec 4500
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Div. 2 industrial hazardous locations per NEC Article 501 and Class 1 circuits per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent flame resistance
- Oil-resistant jacket
- "Heavy Duty" rating per ICEA standards
- Sunlight- and weather-resistant
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -35°C

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC, UL File # E51719
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

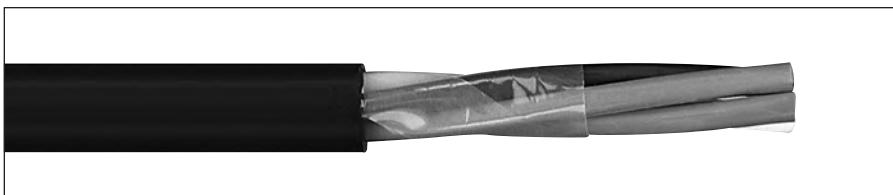
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

16 AWG MULTI-CONDUCTORS

241420	2	16	7/.0192	0.030	0.76	0.045	1.14	0.340	8.64	17	25	61	91
312500	3	16	7/.0192	0.030	0.76	0.045	1.14	0.360	9.14	25	37	73	109
312510	4	16	7/.0192	0.030	0.76	0.045	1.14	0.390	9.91	33	49	91	135
312520	5	16	7/.0192	0.030	0.76	0.045	1.14	0.420	10.67	41	61	110	164
241430	7	16	7/.0192	0.030	0.76	0.045	1.14	0.460	11.68	58	86	141	210
241440	9	16	7/.0192	0.030	0.76	0.060	1.52	0.565	14.35	74	110	199	296

14 AWG MULTI-CONDUCTORS

223650*	2 Flat	14	7/.0242	0.030	0.76	0.045	1.14	230 x .365	5.84 x 9.27	26	39	68	101
272270	2	14	7/.0242	0.030	0.76	0.045	1.14	0.370	9.40	26	39	75	112
223790	3	14	7/.0242	0.030	0.76	0.045	1.14	0.390	9.91	39	59	95	141
223780	4	14	7/.0242	0.030	0.76	0.045	1.14	0.425	10.80	53	78	118	176
223770	5	14	7/.0242	0.030	0.76	0.045	1.14	0.465	11.81	66	98	143	213
223750	7	14	7/.0242	0.030	0.76	0.045	1.14	0.505	12.83	92	137	179	266
223760	9	14	7/.0242	0.030	0.76	0.060	1.52	0.620	15.75	118	176	249	371
223640	12	14	7/.0242	0.030	0.76	0.060	1.52	0.700	17.78	158	235	317	472
223670*	19	14	7/.0242	0.030	0.76	0.060	1.52	0.815	20.70	250	372	467	695
232850*	37	14	7/.0242	0.030	0.76	0.080	2.03	1.130	28.70	490	730	899	1338

12 AWG MULTI-CONDUCTORS

260730*	2 Flat	12	7/.0305	0.030	0.76	0.045	1.14	250 x .400	6.35 x 10.16	50	74	85	126
272260	2	12	7/.0305	0.030	0.76	0.045	1.14	0.410	10.41	51	76	98	146
223910	3	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	64	95	127	189
223930	4	12	7/.0305	0.030	0.76	0.045	1.14	0.475	12.07	85	126	160	238
223920	5	12	7/.0305	0.030	0.76	0.045	1.14	0.520	13.21	106	158	194	289
224080	7	12	7/.0305	0.030	0.76	0.060	1.52	0.595	15.11	168	251	264	393
224070	9	12	7/.0305	0.030	0.76	0.060	1.52	0.695	17.65	191	285	345	513
224090	12	12	7/.0305	0.030	0.76	0.060	1.52	0.780	19.81	255	380	435	647
265940*	19	12	7/.0305	0.030	0.76	0.080	2.03	0.955	24.26	403	600	690	1027
347050*	37	12	7/.0305	0.030	0.76	0.080	2.03	1.265	32.13	741	1103	1393	2073

10 AWG MULTI-CONDUCTORS

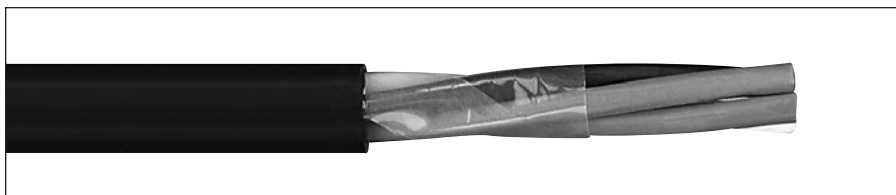
361350*	2 Flat	10	7/.0385	0.030	0.76	0.045	1.14	270 x .445	6.86 x 11.30	66	98	117	174
355210	2	10	7/.0385	0.030	0.76	0.045	1.14	0.455	5.26	67	100	126	188
224100	3	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	100	150	176	262
224110	4	10	7/.0385	0.030	0.76	0.060	1.52	0.560	14.22	134	199	240	357
224120*	5	10	7/.0385	0.030	0.76	0.060	1.52	0.615	15.62	167	249	291	433
224130*	7	10	7/.0385	0.030	0.76	0.060	1.52	0.670	17.02	234	349	376	560
347060*	9	10	7/.0385	0.030	0.76	0.060	1.52	0.765	19.43	302	449	456	679
347070*	12	10	7/.0385	0.030	0.76	0.080	2.03	0.905	22.99	404	601	636	946

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

CHTC®

XLPE/XL-CPE, Control, Unshielded
600 V, UL Type TC—E-1 Color Code



Product Construction:

Conductor:

- 14 AWG thru 10 AWG fully annealed stranded tinned copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1, Table E-1

Jacket:

- Lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print

- GENERAL CABLE® (PLANT OF MFG) CHTC® XX/C XXAWG CU/XLP/XL-CPE (UL) TYPE TC XHHW-2 CDRS DIR BUR SUN RES OIL RES I & II 600 V DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Bare copper conductor
- Class C stranding
- E-2 Color Code—see Spec 4050
- Overall shielded multi-conductor
- Ethylene Propylene Rubber (EPR) insulation—see EHTC Spec 4200
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Flame-retardant Polyvinyl Chloride (PVC) jacket—see CVTC® Spec 4500
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Div. 2 industrial hazardous locations per NEC Article 501 and Class 1 circuits per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent flame resistance
- Oil-resistant jacket
- "Heavy Duty" rating per ICEA standards
- Sunlight- and weather-resistant
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -35°C

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

256260*	2 Flat	14	7/.0242	0.030	0.76	0.045	1.14	.230 x .365	5.84 x 9.27	26	39	68	101
330580	2	14	7/.0242	0.030	0.76	0.045	1.14	0.370	9.40	26	39	75	112
244160	3	14	7/.0242	0.030	0.76	0.045	1.14	0.390	9.91	39	59	95	141
239640	4	14	7/.0242	0.030	0.76	0.045	1.14	0.425	10.80	53	78	118	176
239700	5	14	7/.0242	0.030	0.76	0.045	1.14	0.465	11.81	66	98	143	213
237500	7	14	7/.0242	0.030	0.76	0.045	1.14	0.505	12.83	92	137	179	266
239660	9	14	7/.0242	0.030	0.76	0.060	1.52	0.620	15.75	118	176	249	371
252400	12	14	7/.0242	0.030	0.76	0.060	1.52	0.700	17.78	158	235	317	472
252410*	19	14	7/.0242	0.030	0.76	0.060	1.52	0.815	20.70	250	372	467	695
383980*	25	14	7/.0242	0.030	0.76	0.080	2.03	1.000	25.40	330	491	632	941
383990*	30	14	7/.0242	0.030	0.76	0.080	2.03	1.050	26.67	398	592	731	1088
384000*	37	14	7/.0242	0.030	0.76	0.080	2.03	1.130	28.70	490	730	899	1338

12 AWG MULTI-CONDUCTORS

233320*	2 Flat	12	7/.0305	0.030	0.76	0.045	1.14	.250 x .400	6.35 x 10.16	42	63	85	126
239670	2	12	7/.0305	0.030	0.76	0.045	1.14	0.410	10.41	42	63	98	146
233330	3	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	64	95	127	189
239680	4	12	7/.0305	0.030	0.76	0.045	1.14	0.475	12.07	85	126	160	238
239650	5	12	7/.0305	0.030	0.76	0.045	1.14	0.520	13.21	106	158	194	289
243530	7	12	7/.0305	0.030	0.76	0.060	1.52	0.595	15.11	168	251	264	393
239620	9	12	7/.0305	0.030	0.76	0.060	1.52	0.695	17.65	191	285	345	513
252360	12	12	7/.0305	0.030	0.76	0.060	1.52	0.780	19.81	255	380	435	647
252230*	19	12	7/.0305	0.030	0.76	0.080	2.03	0.955	24.26	403	600	690	1027
384010*	25	12	7/.0305	0.030	0.76	0.080	2.03	1.095	27.81	515	767	858	1277
384020*	30	12	7/.0305	0.030	0.76	0.080	2.03	1.175	29.85	618	920	997	1484
384030*	37	12	7/.0305	0.030	0.76	0.080	2.03	1.265	32.13	741	1103	1393	2073

10 AWG MULTI-CONDUCTORS

384040*	2 Flat	10	7/.0385	0.030	0.76	0.045	1.14	.270 x .445	6.86 x 11.30	66	98	117	174
243540	2	10	7/.0385	0.030	0.76	0.045	1.14	0.455	5.26	67	100	126	188
239630	3	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	100	150	176	262
233310	4	10	7/.0385	0.030	0.76	0.060	1.52	0.560	14.22	134	199	240	357
262680*	5	10	7/.0385	0.030	0.76	0.060	1.52	0.615	15.62	167	249	291	433
375010*	7	10	7/.0385	0.030	0.76	0.060	1.52	0.670	17.02	234	349	376	560
235680*	9	10	7/.0385	0.030	0.76	0.060	1.52	0.765	19.43	302	449	456	679
375470*	12	10	7/.0385	0.030	0.76	0.080	2.03	0.905	22.99	404	601	636	946

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

CHTC®

XLPE/XL-CPE, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER¹—Method 4 Color Code

Product Construction:

Conductor:

- 14 AWG thru 500 kcmil tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- Uninsulated tinned annealed copper per ASTM B3
- Class B stranding per ASTM B8

Jacket:

- Lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) CHTC® XX/C XXAWG WITH GRND CU/XLP/XL-CPE (UL) TYPE TC-ER XHHW-2 CDRS DIR BUR SUN RES 600 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- Class C stranding
- 2 kV version
- E-1 or E-2 Color Code
- Overall shielded multi-conductor
- Insulated ground conductor
- Flame-retardant Ethylene Propylene Rubber (EPR) insulation—see EHTC® Spec 4250



Options (cont'd.):

- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for Exposed Run (ER) use in accordance with NEC for 2 AWG and larger
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics
- "Heavy duty" rating per ICEA standards
- Sunlight- and weather-resistant
- Oil-resistant jacket

Features (cont'd.):

- Meets cold bend test at -35°C
- Meets the crush and impact requirements of Type MC cable for 2 AWG and larger

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 2 AWG and larger, UL File # E57179
- UL 1581
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG - 500 kcmil MULTI-CONDUCTORS

383790*	3	14	7/.0242	14	0.030	0.76	0.045	1.14	0.425	10.80	53	78	118	176
309340*	3	12	7/.0305	12	0.030	0.76	0.045	1.14	0.475	12.07	85	126	160	238
282570*	3	10	7/.0385	10	0.030	0.76	0.060	1.52	0.526	14.22	134	199	240	357
282580	3	8	7/.0486	10	0.045	1.14	0.060	1.52	0.635	16.13	190	283	325	483
282590*	4	8	7/.0486	10	0.045	1.14	0.060	1.52	0.705	17.91	242	360	405	603
282600	3	6	7/.0612	8	0.045	1.14	0.060	1.52	0.720	18.29	301	448	481	716
282610*	4	6	7/.0612	8	0.045	1.14	0.060	1.52	0.820	20.83	384	571	600	893
282620	3	4	7/.0772	8	0.045	1.14	0.080	2.03	0.860	21.84	448	667	667	992
282630*	4	4	7/.0772	8	0.045	1.14	0.080	2.03	0.950	24.13	578	861	905	1347
282640	3	2	7/.0974	6	0.045	1.14	0.080	2.03	1.000	25.40	716	1066	1024	1524
282650*	4	2	7/.0974	6	0.045	1.14	0.080	2.03	1.120	28.45	919	1368	1295	1927
366070*	3	1	19/.0664	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1199	1784
366080*	4	1	19/.0664	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1704	2536
282660*	3	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.215	30.86	1081	1609	1463	2177
338860*	4	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.330	33.78	1413	2103	1830	2723
282670*	3	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.310	33.27	1341	1996	1810	2694
292410*	4	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.480	37.59	1760	2619	2326	3462
366090*	3	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2437	3627
366100*	4	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	3123	4648
282680*	3	4/0	19/.1055	4	0.055	1.40	0.080	2.03	1.540	39.12	2132	3173	2659	3957
338880*	4	4/0	19/.1055	4	0.055	1.40	0.110	2.79	1.765	44.83	2796	4161	3909	5817
338890*	3	250	37/.0822	4	0.065	1.65	0.110	2.79	1.740	44.20	2494	3712	3196	4756
338900*	4	250	37/.0822	4	0.065	1.65	0.110	2.79	1.935	49.15	3282	4884	4571	6803
282690*	3	350	37/.0973	3	0.065	1.65	0.110	2.79	2.010	51.05	3477	5174	4423	6582
338910*	4	350	37/.0973	3	0.065	1.65	0.110	2.79	2.180	55.37	4577	6811	6068	9030
282710*	3	500	37/.1162	2	0.065	1.65	0.110	2.79	2.305	58.55	4938	7349	6097	9074
331150*	4	500	37/.1162	2	0.065	1.65	0.110	2.79	2.555	64.90	6509	9647	7905	11764

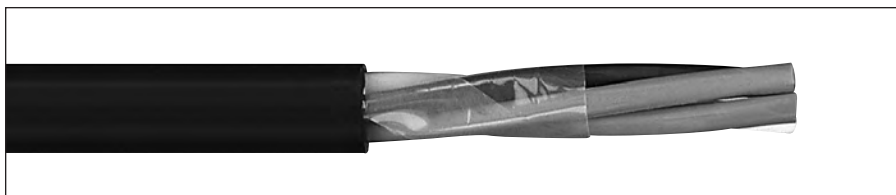
Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 2 AWG and larger defined by NEC.

EHTC®

FR-EPR/XL-CPE, Control, Unshielded
600 V, UL Type TC (18 AWG/16 AWG)—E-2 Color Code



Product Construction:

Conductor:

- 18 AWG and 16 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

Jacket:

- Lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print

- GENERAL CABLE® (PLANT OF MFG) EHTC® XX/C XXAWG EPR/XL-CPE (UL) TYPE TC 90° WET OR DRY CDRS BUR SUN RES 600 V DAY/ MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Bare copper conductors
- Class C stranding
- Insulated or uninsulated ground conductors
- Overall shielded multi-conductors
- Duralox® aluminum interlocked armor
- E-1 Color Code
- Flame-retardant Polyvinyl Chloride (PVC) jacket
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Flame-retardant thermoplastic Chlorinated Polyethylene (CPE)—See FREP® Spec 4300
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- At temperature as low as -35°C
- In Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics
- Good abrasion resistance
- Low moisture absorption characteristics
- "Heavy duty" rated per ICEA standards
- Meets cold bend test at -35°C

Compliances:

Industry Compliances:

- UL 1277 Type TC, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

18 AWG MULTI-CONDUCTORS

366190*	2 Flat	18	7/.0152	0.025	0.64	0.045	1.14	.192 x .290	4.88 x 7.37	10	15	37	55
343330*	2	18	7/.0152	0.025	0.64	0.045	1.14	0.295	7.49	10	15	45	67
343340*	3	18	7/.0152	0.025	0.64	0.045	1.14	0.310	7.88	15	23	55	82
343350*	4	18	7/.0152	0.025	0.64	0.045	1.14	0.340	8.64	20	30	67	100
343360*	5	18	7/.0152	0.025	0.64	0.045	1.14	0.365	9.27	26	38	79	118
343370*	7	18	7/.0152	0.025	0.64	0.045	1.14	0.395	10.03	36	53	97	144
343380*	9	18	7/.0152	0.025	0.64	0.045	1.14	0.455	11.56	46	69	123	183
343390*	10	18	7/.0152	0.025	0.64	0.045	1.14	0.485	12.32	51	76	137	204
343400*	12	18	7/.0152	0.025	0.64	0.045	1.14	0.510	12.95	61	91	153	228
343410*	15	18	7/.0152	0.025	0.64	0.060	1.52	0.580	14.73	77	114	202	301
343420*	19	18	7/.0152	0.025	0.64	0.060	1.52	0.625	15.88	97	144	243	362
343430*	25	18	7/.0152	0.025	0.64	0.060	1.52	0.720	18.29	128	190	301	448
343440*	30	18	7/.0152	0.025	0.64	0.060	1.52	0.770	19.56	154	229	345	513
343450*	37	18	7/.0152	0.025	0.64	0.060	1.52	0.830	21.08	189	281	414	616

16 AWG MULTI-CONDUCTORS

366200*	2 Flat	16	7/.0192	0.025	0.64	0.045	1.14	.204 x .314	5.18 x 7.98	16	24	46	68
343460*	2	16	7/.0192	0.025	0.64	0.045	1.14	0.320	8.13	16	24	55	82
343470*	3	16	7/.0192	0.025	0.64	0.045	1.14	0.340	8.67	24	36	69	130
343480*	4	16	7/.0192	0.025	0.64	0.045	1.14	0.365	9.27	32	48	85	126
343490*	5	16	7/.0192	0.025	0.64	0.045	1.14	0.400	10.20	40	60	102	152
343500*	7	16	7/.0192	0.025	0.64	0.045	1.14	0.430	10.90	56	84	127	189
343510*	9	16	7/.0192	0.025	0.64	0.045	1.14	0.500	12.70	72	108	162	241
343520*	10	16	7/.0192	0.025	0.64	0.060	1.52	0.565	14.40	80	119	197	293
343530*	12	16	7/.0192	0.025	0.64	0.060	1.52	0.590	14.97	97	144	221	329
343540*	15	16	7/.0192	0.025	0.64	0.060	1.52	0.640	16.26	121	180	270	402
343550*	19	16	7/.0192	0.025	0.64	0.060	1.52	0.690	17.53	153	228	327	487
343560*	25	16	7/.0192	0.025	0.64	0.060	1.52	0.795	20.19	201	299	424	631
343570*	30	16	7/.0192	0.025	0.64	0.080	2.03	0.890	22.61	242	360	508	756
343580*	37	16	7/.0192	0.025	0.64	0.080	2.03	0.955	24.26	298	443	609	906

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

EHTC®

**FR-EPR/XL-CPE, Control, Unshielded
600 V, UL Type TC (14 AWG–10 AWG)—E-2 Color Code**

Product Construction:

Conductor:

- 14 AWG thru 10 AWG tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

Jacket:

- Lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print

- GENERAL CABLE® (PLANT OF MFG) EHTC® XX/C XXAWG EPR/XL-CPE (UL) TYPE TC XHHW-2 CDRS BUR SUN RES 600 V DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Bare copper conductors
- Class C stranding
- Insulated or uninsulated ground conductors
- Overall shielded multi-conductors
- Duralox® aluminum interlocked armor
- E-1 Color Code
- Flame-retardant Polyvinyl Chloride (PVC) jacket
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Flame-retardant thermoplastic Chlorinated Polyethylene (CPE)—see FREP® Spec 4300
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- At temperature as low as -35°C
- In Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics
- Good abrasion resistance
- Low moisture absorption characteristics
- "Heavy duty" rated per ICEA standards
- Meets cold bend test at -35°C

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC, UL File # E51719
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

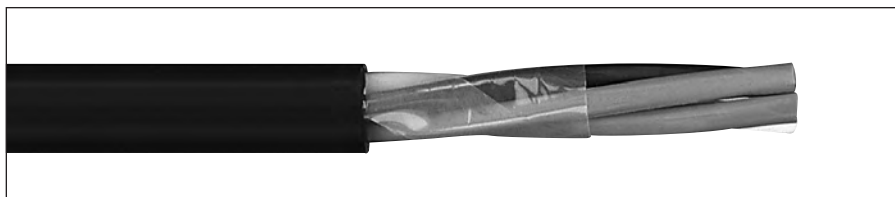
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

262130*	2 Flat	14	7/.0242	0.030	0.76	0.045	1.14	.230 x .365	5.84 x 9.27	26	38	68	101
343590*	2	14	7/.0242	0.030	0.76	0.045	1.14	0.370	9.40	26	39	76	113
262140*	3	14	7/.0242	0.030	0.76	0.045	1.14	0.390	9.91	39	59	97	144
248240*	4	14	7/.0242	0.030	0.76	0.045	1.14	0.425	10.80	53	78	120	179
262150*	5	14	7/.0242	0.030	0.76	0.045	1.14	0.465	11.81	66	98	145	216
262160*	7	14	7/.0242	0.030	0.76	0.045	1.14	0.505	12.83	92	137	183	272
343600*	9	14	7/.0242	0.030	0.76	0.060	1.52	0.620	15.75	118	176	254	378
248290*	12	14	7/.0242	0.030	0.76	0.060	1.52	0.700	17.78	158	235	323	481
343630*	19	14	7/.0242	0.030	0.76	0.060	1.52	0.815	20.71	250	372	477	710
262190*	25	14	7/.0242	0.030	0.76	0.080	2.03	1.000	25.40	330	491	645	960
343640*	30	14	7/.0242	0.030	0.76	0.080	2.03	1.050	26.70	398	592	746	1110
343650*	37	14	7/.0242	0.030	0.76	0.080	2.03	1.130	28.71	490	729	919	1368

12 AWG MULTI-CONDUCTORS

343660*	2 Flat	12	7/.0305	0.030	0.76	0.045	1.14	.250 x .400	6.35 x 10.16	50	76	88	131
343670*	2	12	7/.0305	0.030	0.76	0.045	1.14	0.410	10.41	51	76	99	147
343680*	3	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	64	95	129	192
343690*	4	12	7/.0305	0.030	0.76	0.045	1.14	0.475	12.07	85	127	163	243
262200*	5	12	7/.0305	0.030	0.76	0.045	1.14	0.520	13.21	106	158	198	295
343700*	7	12	7/.0305	0.030	0.76	0.060	1.52	0.595	15.11	168	250	269	400
343710*	9	12	7/.0305	0.030	0.76	0.060	1.52	0.695	17.65	191	285	351	522
343730*	12	12	7/.0305	0.030	0.76	0.060	1.52	0.780	19.81	255	380	443	659
343750*	19	12	7/.0305	0.030	0.76	0.080	2.03	0.955	24.26	403	600	703	1046
343760*	25	12	7/.0305	0.030	0.76	0.080	2.03	1.115	28.32	515	767	875	1302
343770*	30	12	7/.0305	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1017	1513
343780*	37	12	7/.0305	0.030	0.76	0.080	2.03	1.240	31.50	741	1103	1421	2115

10 AWG MULTI-CONDUCTORS

343790*	2 Flat	10	7/.0385	0.030	0.76	0.045	1.14	.270 x .445	6.86 x 11.30	66	98	119	177
343800*	2	10	7/.0385	0.030	0.76	0.045	1.14	0.455	11.6	67	100	134	199
343810*	3	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.3	100	150	178	265
264990*	4	10	7/.0385	0.030	0.76	0.060	1.52	0.560	14.2	134	199	243	362
343820*	5	10	7/.0385	0.030	0.76	0.060	1.52	0.615	15.6	167	249	295	439
343830*	7	10	7/.0385	0.030	0.76	0.060	1.52	0.670	17.0	234	349	382	568
343840*	9	10	7/.0385	0.030	0.76	0.060	1.52	0.765	19.4	302	449	492	732
343860*	12	10	7/.0385	0.030	0.76	0.080	2.03	0.905	23.0	404	601	662	985

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

EHTC®

**FR-EPR/XL-CPE, Low-Voltage Power, Unshielded
600 V, UL Type TC-ER¹—Method 4 Color Code**



Features (cont'd.):

- UL 44 Type XHHW-2, VW-1, 600 V
- Excellent physical, thermal and electrical properties
- Excellent resistance to moisture
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent flame resistance
- "Heavy Duty" rated per ICEA standards
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -35°C
- Meets the crush and impact requirements of Type MC cable for 2 AWG and larger

Product Construction:

Conductors:

- 14 AWG thru 500 kcmil tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- Uninsulated tinned annealed copper per ASTM B3
- Class B stranding per ASTM B8

Jacket:

- Lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) EHTC® XX/C XXAWG WITH GRND EPR/XL-CPE (UL) TYPE TC-ER XHHW-2 CDRS DIR BUR SUN RES 600 V DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Bare copper conductors
- Insulated ground conductor
- Cross-linked Polyethylene (XLPE) insulation
- Flame-retardant Polyvinyl Chloride (PVC) jacket
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Flame-retardant Thermoplastic Chlorinated Polyethylene (CPE)—see FREP® Spec 4350
- Class C stranding
- E-1 or E-2 Color Code
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for Exposed Run (ER) use in accordance with NEC for 2 AWG and larger
- In Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 2 AWG & larger, UL File # E57179
- UL 1581
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG - 500 kcmil MULTI-CONDUCTORS

383800*	3	14	7/.0242	14	0.030	0.76	0.045	1.14	0.390	9.91	53	78	118	176
383810*	3	12	7/.0305	12	0.030	0.76	0.045	1.14	0.435	11.05	85	126	160	238
383820*	3	10	7/.0385	10	0.030	0.76	0.060	1.52	0.485	12.32	134	199	240	357
261000*	3	8	7/.0486	10	0.045	1.14	0.060	1.52	0.660	16.76	190	283	223	332
338670*	4	8	7/.0486	10	0.045	1.14	0.060	1.52	0.725	18.42	242	360	421	627
366210*	3	6	7/.0612	8	0.045	1.14	0.060	1.52	0.745	18.92	301	448	481	716
338680*	4	6	7/.0612	8	0.045	1.14	0.060	1.52	0.820	20.83	384	571	600	893
261010*	3	4	7/.0772	8	0.045	1.14	0.080	2.03	0.890	22.61	448	667	702	1045
338690*	4	4	7/.0772	8	0.045	1.14	0.080	2.03	0.975	24.77	578	860	882	1313
338700*	3	2	7/.0974	6	0.045	1.14	0.080	2.03	1.020	25.91	716	1066	1024	1524
338710*	4	2	7/.0974	6	0.045	1.14	0.080	2.03	1.120	28.45	919	1368	1295	1927
366220*	3	1	19/.0664	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1199	1784
366230*	4	1	19/.0664	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1704	2536
338720*	3	1/0	19/.0740	6	0.055	1.40	0.080	2.03	1.240	31.50	1081	1609	1505	2240
338730*	4	1/0	19/.0740	6	0.055	1.40	0.080	2.03	1.330	33.78	1413	2103	1830	2723
338740*	3	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.340	34.04	1341	1996	1810	2694
338750*	4	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.480	37.59	1760	2619	2326	3462
366240*	3	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2437	3627
366250*	4	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	3123	4648
360990*	3	4/0	19/.1055	4	0.055	1.40	0.080	2.03	1.575	40.01	2132	3173	2725	4055
338770*	4	4/0	19/.1055	4	0.055	1.40	0.110	2.79	1.765	44.83	2796	4161	3909	5817
338780*	3	250	37/.0822	4	0.065	1.65	0.110	2.79	1.755	44.58	2494	3712	3605	5365
338790*	4	250	37/.0822	4	0.065	1.65	0.110	2.79	1.935	49.15	3282	4884	4571	6803
338800*	3	350	37/.0973	3	0.065	1.65	0.110	2.79	2.010	51.05	3477	5174	4423	6582
338310*	4	350	37/.0973	3	0.065	1.65	0.110	2.79	2.180	55.37	4577	6811	6068	9030
338820*	3	500	37/.1162	2	0.065	1.65	0.110	2.79	2.305	58.55	4938	7349	6097	9074
338830*	4	500	37/.1162	2	0.065	1.65	0.110	2.79	2.555	64.90	6509	9687	7905	11764

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 2 AWG and larger defined by NEC.



Phone: 888-593-3355
www.generalcable.com

FREP®

FR-EPR/CPE, Control, Unshielded
600 V, UL Type TC-ER¹—E-2 Color Code

Product Construction:

Conductor:

- 14 AWG thru 10 AWG fully annealed stranded tinned copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

Jacket:

- Lead-free, flame-retardant thermoplastic Chlorinated Polyethylene (CPE)

Print

- GENERAL CABLE® (PLANT OF MFG) FREP® XX/C XXAWG EPR/CPE (UL) TYPE TC-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Bare copper conductor
- Class C stranding
- E-1 Color Code—see Spec 4310
- Overall shielded multi-conductor
- Flame-Retardant Cross-linked Polyethylene (FR-XLPE) insulation
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors
- Approved for direct burial
- Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Sunlight- and weather-resistant
- Excellent moisture resistance
- Excellent resistance to compression cuts and heat deformation
- Low coefficient of friction for easy pulling
- Excellent flame resistance—burns to ash; does not exhibit thermoplastic drip
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -40°C
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

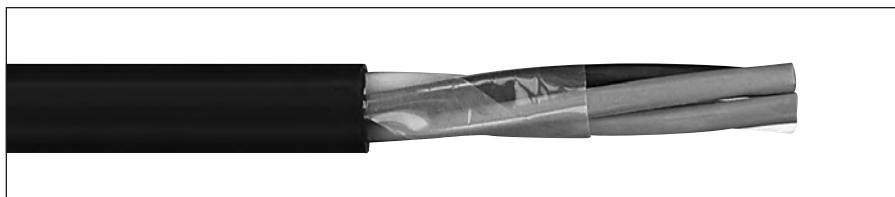
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

279560	2 Flat	14	7/.0242	0.030	0.76	0.045	1.14	.365 x .230	9.30 x 5.80	26	38	61	91
305320*	2	14	7/.0242	0.030	0.76	0.045	1.14	0.370	9.40	26	39	71	106
280180	3	14	7/.0242	0.030	0.76	0.045	1.14	0.390	9.91	39	59	92	137
280190	4	14	7/.0242	0.030	0.76	0.045	1.14	0.425	10.80	53	78	115	171
279870	5	14	7/.0242	0.030	0.76	0.045	1.14	0.465	11.81	66	98	139	207
280200	7	14	7/.0242	0.030	0.76	0.045	1.14	0.505	12.83	92	137	173	257
280210	9	14	7/.0242	0.030	0.76	0.060	1.52	0.620	15.75	118	176	240	357
279880	12	14	7/.0242	0.030	0.76	0.060	1.52	0.700	17.78	158	235	301	448
279580	19	14	7/.0242	0.030	0.76	0.060	1.52	0.815	20.70	250	372	468	696
279590	25	14	7/.0242	0.030	0.76	0.080	2.03	0.935	23.75	323	481	624	929
347080*	30	14	7/.0242	0.030	0.76	0.080	2.03	1.030	26.16	387	576	747	1112
279600*	37	14	7/.0242	0.030	0.76	0.080	2.03	1.110	28.19	466	694	875	1302

12 AWG MULTI-CONDUCTORS

279840	2 Flat	12	7/.0305	0.030	0.76	0.045	1.14	.400 x .245	10.20 x 6.20	40	60	82	122
307690*	2	12	7/.0305	0.030	0.76	0.045	1.14	0.410	10.41	41	61	94	140
280170	3+ Grnd	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	85	127	148	220
280300	3	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	64	95	124	185
280310	4	12	7/.0305	0.030	0.76	0.045	1.14	0.475	12.07	85	127	157	234
280320	5	12	7/.0305	0.030	0.76	0.045	1.14	0.520	13.21	106	158	191	284
279890	7	12	7/.0305	0.030	0.76	0.060	1.52	0.595	15.11	149	221	268	399
280330	9	12	7/.0305	0.030	0.76	0.060	1.52	0.695	17.65	191	285	337	502
280340	12	12	7/.0305	0.030	0.76	0.060	1.52	0.765	19.43	247	368	428	637
279610	19	12	7/.0305	0.030	0.76	0.080	2.03	0.940	23.88	391	582	688	1024
295400*	25	12	7/.0305	0.030	0.76	0.080	2.03	1.095	27.81	515	767	854	1271
347100*	30	12	7/.0305	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1002	1491
301870	37	12	7/.0305	0.030	0.76	0.080	2.03	1.240	31.50	762	1134	1240	1845

10 AWG MULTI-CONDUCTORS

279570	2 Flat	10	7/.0385	0.030	0.76	0.045	1.14	.445 x .270	11.30 x 6.90	64	95	113	168
305340*	2	10	7/.0385	0.030	0.76	0.045	1.14	0.455	11.56	65	97	128	190
279680	3+ Grnd	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	134	199	225	335
280410	3	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	100	150	172	256
279900	4	10	7/.0385	0.030	0.76	0.060	1.52	0.560	14.22	134	199	234	348
279620	5	10	7/.0385	0.030	0.76	0.060	1.52	0.615	15.62	167	249	284	423
279630	7	10	7/.0385	0.030	0.76	0.060	1.52	0.670	17.02	234	349	381	567
279640	9	10	7/.0385	0.030	0.76	0.060	1.52	0.760	19.30	295	440	464	691
279650	12	10	7/.0385	0.030	0.76	0.080	2.03	0.905	22.99	402	598	651	696

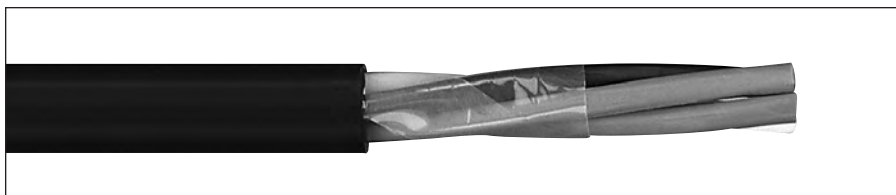
Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

FREP®

FR-EPR/CPE, Control, Unshielded
600 V, UL Type TC-ER¹—E-1 Color Code



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

280590	2 Flat	14	7/.0242	0.030	0.76	0.045	1.14	.365 x .230	9.30 x 5.80	26	38	61	91
280230	3	14	7/.0242	0.030	0.76	0.045	1.14	0.390	9.91	39	59	92	137
280240	4	14	7/.0242	0.030	0.76	0.045	1.14	0.425	10.80	53	78	115	171
280250	5	14	7/.0242	0.030	0.76	0.045	1.14	0.465	11.81	66	98	139	207
280260	7	14	7/.0242	0.030	0.76	0.045	1.14	0.505	12.83	92	137	173	257
280270	9	14	7/.0242	0.030	0.76	0.060	1.52	0.620	15.75	118	176	240	357
280280	12	14	7/.0242	0.030	0.76	0.060	1.52	0.700	17.78	158	235	301	448
280290*	19	14	7/.0242	0.030	0.76	0.060	1.52	0.815	20.70	250	372	468	696
385350*	25	14	7/.0242	0.030	0.76	0.080	2.03	0.935	23.75	323	481	624	929
385360*	30	14	7/.0242	0.030	0.76	0.080	2.03	1.030	26.16	387	576	747	1112
385370*	37	14	7/.0242	0.030	0.76	0.080	2.03	1.110	28.19	466	694	875	1302

12 AWG MULTI-CONDUCTORS

279850	2 Flat	12	7/.0305	0.030	0.76	0.045	1.14	.400 x .245	10.20 x 6.20	42	63	82	122
280350*	2	12	7/.0305	0.030	0.76	0.045	1.14	0.410	10.41	42	63	94	140
280360	3	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	64	95	124	185
279910	4	12	7/.0305	0.030	0.76	0.045	1.14	0.475	12.07	85	127	157	234
280370	5	12	7/.0305	0.030	0.76	0.045	1.14	0.520	13.21	106	158	191	284
280380	7	12	7/.0305	0.030	0.76	0.060	1.52	0.595	15.11	149	221	268	399
280390*	9	12	7/.0305	0.030	0.76	0.060	1.52	0.695	17.65	191	285	337	502
280400	12	12	7/.0305	0.030	0.76	0.060	1.52	0.765	19.43	247	368	428	637
383930*	19	12	7/.0305	0.030	0.76	0.080	2.03	0.940	23.88	391	582	688	1024
383940*	25	12	7/.0305	0.030	0.76	0.080	2.03	1.095	27.81	515	767	854	1271
383950*	30	12	7/.0305	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1002	1491
330800*	37	12	7/.0305	0.030	0.76	0.080	2.03	1.240	31.50	762	1134	1240	1845

10 AWG MULTI-CONDUCTORS

280600*	2 Flat	10	7/.0385	0.030	0.76	0.045	1.14	.445 x .270	11.30 x 6.90	64	95	113	168
280420*	2	10	7/.0385	0.030	0.76	0.045	1.14	0.455	11.56	65	97	128	190
279920	3	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	100	150	172	256
279930	4	10	7/.0385	0.030	0.76	0.060	1.52	0.560	14.22	134	199	234	348
330990*	5	10	7/.0385	0.030	0.76	0.060	1.52	0.615	15.62	167	249	284	423
280430*	7	10	7/.0385	0.030	0.76	0.060	1.52	0.670	17.02	234	349	381	567
382880*	9	10	7/.0385	0.030	0.76	0.060	1.52	0.760	19.30	295	440	464	691
383970*	12	10	7/.0385	0.030	0.76	0.080	2.03	0.950	22.99	402	598	651	969

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

Product Construction:

Conductor:

- 14 AWG thru 10 AWG fully annealed stranded tinned copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 1, Table E-1 (includes white or green)

Jacket:

- Lead-free, flame-retardant thermoplastic Chlorinated Polyethylene (CPE)

Print

- GENERAL CABLE® (PLANT OF MFG) FREP® XX/C XXAWG EPR/CPE (UL) TYPE TC-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Bare copper conductor
- Class C stranding
- E-2 Color Code—see Spec 4300
- Overall shielded multi-conductor
- Flame-Retardant Cross-linked Polyethylene (FR-XLPE) insulation
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors
- Approved for direct burial
- Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Sunlight- and weather-resistant
- Excellent moisture resistance
- Excellent resistance to compression cuts and heat deformation
- Low coefficient of friction for easy pulling
- Excellent flame resistance—burns to ash; does not exhibit thermoplastic drip
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -40°C
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

Compliances:

- **Industry Compliances:**
 - UL 44 Type XHHW-2
 - UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
 - UL 1581
 - ICEA S-73-532/NEMA WC57
- **Flame Test Compliances:**
 - UL 1581/UL 2556 VW-1
 - UL 1685 Vertical Flame Test
 - IEEE 383
 - IEEE 1202
 - CSA FT4
 - ICEA T-29-520
- **Other Compliances:**
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP
 - OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



Phone: 888-593-3355
www.generalcable.com

FREP®

FR-EPR/CPE, Control, Shielded 600 V, UL Type TC-ER¹, Overall Shielded—E-2 Color Code

Product Construction:

Conductor:

- 16 AWG thru 10 AWG fully annealed stranded tinned copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

Shield:

- Overall shielded multi-conductor cable
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant thermoplastic Chlorinated Polyethylene (CPE)

Print

- GENERAL CABLE® (PLANT OF MFG) SHIELDED FREP® XX/C XXAWG EPR/CPE (UL) TYPE TC-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Bare copper conductor
- Class C stranding
- E-1 Color Code
- Unshielded multi-conductors
- Flame-Retardant Cross-linked Polyethylene (FR-XLPE) insulation
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Other constructions available upon request

Applications:

- In free air, raceway and direct burial
- In wet or dry locations
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors
- Approved for direct burial
- Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Sunlight- and weather-resistant
- Excellent moisture resistance
- Excellent resistance to compression cuts and heat deformation
- Low coefficient of friction for easy pulling
- Excellent flame resistance—burns to ash; does not exhibit thermoplastic drip
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -40°C
- Meets the crush and impact requirements of Type MC cable for 3 conductors or more

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

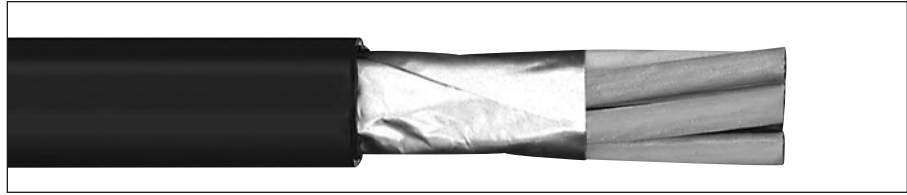
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELDED MULTI-CONDUCTORS 16 AWG CONDUCTORS

280470	2	16	7/0.192	0.025	0.64	0.045	1.14	0.320	8.13	19	28	52	77
280490	3	16	7/0.192	0.025	0.64	0.045	1.14	0.335	8.51	27	40	66	98

OVERALL SHIELDED MULTI-CONDUCTORS 14 AWG CONDUCTORS

280980*	2	14	7/0.242	0.030	0.76	0.045	1.14	0.375	9.53	29	43	74	110
354800*	3	14	7/0.242	0.030	0.76	0.045	1.14	0.395	10.03	42	63	95	141
305300*	4	14	7/0.242	0.030	0.76	0.045	1.14	0.430	10.92	55	82	118	176
354810*	5	14	7/0.242	0.030	0.76	0.045	1.14	0.470	11.94	68	101	142	211
354820*	7	14	7/0.242	0.030	0.76	0.045	1.14	0.510	12.95	94	140	176	262
367120*	9	14	7/0.242	0.030	0.76	0.060	1.52	0.625	15.88	121	180	243	362
354830*	12	14	7/0.242	0.030	0.76	0.060	1.52	0.705	17.91	160	238	304	452
305360*	19	14	7/0.242	0.030	0.76	0.060	1.52	0.820	20.83	252	375	471	701
367130*	25	14	7/0.242	0.030	0.76	0.080	2.03	0.940	25.53	325	484	627	933
367140*	30	14	7/0.242	0.030	0.76	0.080	2.03	1.035	26.29	389	579	750	1116
367150*	37	14	7/0.242	0.030	0.76	0.080	2.03	1.115	28.32	468	696	878	1307

OVERALL SHIELDED MULTI-CONDUCTORS 12 AWG CONDUCTORS

367160*	2	12	7/0.305	0.030	0.76	0.045	1.14	0.415	10.45	43	64	97	144
367170*	3	12	7/0.305	0.030	0.76	0.045	1.14	0.440	11.18	66	98	127	189
326650*	4	12	7/0.305	0.030	0.76	0.045	1.14	0.480	12.19	87	129	160	238
367180*	5	12	7/0.305	0.030	0.76	0.045	1.14	0.525	13.34	108	162	194	289
326660*	7	12	7/0.305	0.030	0.76	0.060	1.52	0.600	15.24	151	225	271	403
367190*	9	12	7/0.305	0.030	0.76	0.060	1.52	0.700	17.78	193	287	340	506
326640*	12	12	7/0.305	0.030	0.76	0.060	1.52	0.770	19.56	249	371	431	641
326670*	19	12	7/0.305	0.030	0.76	0.080	2.03	0.945	24.00	393	585	691	1028
367200*	25	12	7/0.305	0.030	0.76	0.080	2.03	1.100	27.94	517	769	857	1275
367210*	30	12	7/0.305	0.030	0.76	0.080	2.03	1.155	29.80	620	923	1005	1496
367220*	37	12	7/0.305	0.030	0.76	0.080	2.03	1.245	31.62	764	1137	1243	1850

OVERALL SHIELDED MULTI-CONDUCTORS 10 AWG CONDUCTORS

311900*	2	10	7/0.385	0.030	0.76	0.045	1.14	0.460	11.68	68	101	131	195
367230*	3	10	7/0.385	0.030	0.76	0.045	1.14	0.490	12.45	103	155	175	260
311910*	4	10	7/0.385	0.030	0.76	0.060	1.52	0.565	14.35	136	202	237	353
367240*	5	10	7/0.385	0.030	0.76	0.060	1.52	0.620	15.75	170	253	287	427
367250*	7	10	7/0.385	0.030	0.76	0.060	1.52	0.675	17.15	237	353	384	571
367260*	9	10	7/0.385	0.030	0.76	0.060	1.52	0.765	19.43	298	443	467	695
367270*	12	10	7/0.385	0.030	0.76	0.080	2.03	0.910	23.11	404	601	654	973

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

FREP®

FR-EPR/CPE, Low-Voltage Power, Unshielded
600 V, UL Type TC-ER¹—Method 4 Color Code



Features (cont'd.):

- Excellent moisture resistance
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent low temperature cold bend characteristics
- Excellent flame resistance—burns to ash; does not exhibit thermoplastic drip
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -40°C

Product Construction:

Conductor:

- 14 AWG thru 750 kcmil tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- Uninsulated tinned annealed copper per ASTM B3
- Class B stranding per ASTM B8

Jacket:

- Lead-free, flame-retardant thermoplastic Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) FREP® XX/C XXAWG WITH GRND EPR/CPE (UL) TYPE TC-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Bare copper conductor
- Class C stranding
- E-1 or E-2 Color Code
- Insulated ground conductors
- Overall shielded multi-conductors
- Flame-Retardant Cross-linked Polyethylene (FR-XLPE) insulation
- Flame-retardant, thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER, UL File # E57179
- UL 1581
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
14 AWG - 750 kcmil MULTI-CONDUCTORS														
383830*	3	14	7/.0242	14	0.030	0.76	0.045	1.14	0.390	9.91	55	82	118	176
296450*	3	12	7/.0305	12	0.030	0.76	0.045	1.14	0.435	11.05	87	129	160	238
296440*	3	10	7/.0385	10	0.030	0.76	0.060	1.52	0.485	12.32	136	202	237	353
279660	3	8	7/.0486	10	0.045	1.14	0.060	1.52	0.655	16.64	190	283	314	467
279670	4	8	7/.0486	10	0.045	1.14	0.060	1.52	0.720	18.29	242	360	393	585
283210	3	6	7/.0612	8	0.045	1.14	0.060	1.52	0.740	18.80	297	442	456	679
300380	4	6	7/.0612	8	0.045	1.14	0.060	1.52	0.790	20.07	384	571	561	835
283200	3	4	7/.0772	8	0.045	1.14	0.080	2.03	0.880	22.35	442	658	642	955
295390	4	4	7/.0772	8	0.045	1.14	0.080	2.03	0.950	24.13	578	861	822	1223
293600	3	2	7/.0974	6	0.045	1.14	0.080	2.03	1.010	25.65	703	1046	979	1457
295890	4	2	7/.0974	6	0.045	1.14	0.080	2.03	1.090	27.69	919	1368	1235	1838
297730*	3	1	19/.0664	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1021	1594
356740*	4	1	19/.0664	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1521	2264
283220	3	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.225	31.12	1069	1591	1439	2142
294530*	4	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.330	33.78	1413	2103	1820	2709
284560	3	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.300	33.02	1340	1994	1720	2560
295360*	4	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.440	36.58	1760	2619	2208	3286
325700*	3	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2176	3238
365750*	4	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	2788	3405
325110	3	4/0	19/.1055	4	0.055	1.40	0.080	2.03	1.540	39.12	2130	3170	2614	3890
346980*	4	4/0	19/.1055	4	0.055	1.40	0.110	2.79	1.790	45.47	2796	4161	3495	5201
300780	3	250	37/.0822	4	0.065	1.65	0.110	2.79	1.760	44.70	2494	3712	3184	4738
346990*	4	250	37/.0822	4	0.065	1.65	0.110	2.79	1.915	48.64	3282	4884	4019	5981
325120	3	350	37/.0973	3	0.065	1.65	0.110	2.79	1.960	49.78	3474	5170	4187	6231
347000*	4	350	37/.0973	3	0.065	1.65	0.110	2.79	2.165	54.99	4577	6811	5436	8090
298020	3	500	37/.1162	2	0.065	1.65	0.110	2.79	2.245	57.02	4934	7343	5847	8702
14407.546500*	4	500	37/.1162	2	0.065	1.65	0.110	2.79	2.475	62.87	6509	9687	7607	11321
14407.247000*	3	750	61/.1109	1	0.080	2.03	0.140	3.56	2.810	71.37	7278	10831	9145	13610
14407.547000*	4	750	61/.1109	1	0.080	2.03	0.140	3.56	3.115	79.12	9712	14453	11805	17569

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.



Phone: 888-593-3355
www.generalcable.com

Arctic-Flex®

XLPE/Arctic-PVC, Control, Unshielded

600 V, UL Type TC-ER¹, CSA Type RW90 XLPE, CSA Type TC

Product Construction:

Conductor:

- 14 AWG thru 10 AWG tinned, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per CSA Standard C22.2 No. 38 as follows:

Number of color coding of circuit conductors

No. of Cond.	Color Code
2	blk, wht
3	blk, red, blu
4	blk, red, blu, wht
≥5	all black

All conductors for all constructions are alpha-numeric printed

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Arctic-grade Polyvinyl Chloride (PVC)

Print:

GENERAL CABLE® (PLANT OF MFG) (UL) TYPE TC-ER ARCTIC-FLEX® XX/G XXAWG FR-XLP/ PVC XHHW-2 CDRS 90C WET OR DRY SUN RES DIR BUR 600 V - (CSA) TYPE RW90 XLPE -40C TC FT4 600 V PLUS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper, class C stranding
- Uninsulated ground (bonding) conductor
- Optional color code as specified per CSA standard C22.2 No. 38 for two to four conductor cable
- Non-UL 1000 volt CSA Type RW90 XLPE, CSA Type TC
- Other constructions available upon request

Applications:

- Industrial lighting, control and signaling circuits
- Approved for direct burial, Class I, Div. 2 industrial hazardous locations per NEC for UL Type TC cables. In Canada, protection may be required by inspection authority per Canadian electrical code
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors
- Approved for cable in tray; industrial hazardous locations; Class I, Zone 2; and Class II, Division 2 per CEC Rules 18-152 and 18-252 when used with certified HL glands

Features:

- Rated 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Meets CSA cold impact test at -40°C
- Meets ICEA and CSA cold bend test at -60°C
- Meets the crush and impact requirements of Type MC cable

Compliances:

Industry Compliances:

- ICEA S-73-532/NEMA WC57
- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- CSA C22.2 No. 38 XLPE RW90
- CSA C22.2 No. 230 Type TC

Flame Test Compliances:

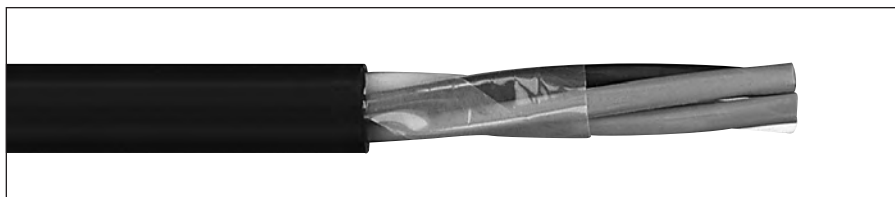
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to lengths and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

347340*	2	14	7/.0242	0.030	0.76	0.045	1.14	0.405	10.29	25	37	71	106
347350*	3	14	7/.0242	0.030	0.76	0.045	1.14	0.390	9.91	40	59	90	134
347360*	4	14	7/.0242	0.030	0.76	0.045	1.14	0.425	10.80	53	79	113	168
347370*	5	14	7/.0242	0.030	0.76	0.045	1.14	0.465	11.81	66	99	140	208
347380*	7	14	7/.0242	0.030	0.76	0.045	1.14	0.590	14.99	93	138	176	262
347390*	9	14	7/.0242	0.030	0.76	0.060	1.52	0.620	15.75	119	177	245	365
347400*	12	14	7/.0242	0.030	0.76	0.060	1.52	0.680	17.27	159	237	302	449
347410*	19	14	7/.0242	0.030	0.76	0.060	1.52	0.800	20.32	252	375	460	685
347420*	25	14	7/.0242	0.030	0.76	0.060	1.52	0.985	25.02	323	481	641	954
347430*	30	14	7/.0242	0.030	0.76	0.080	2.03	1.050	26.67	387	576	740	1101
347440*	37	14	7/.0242	0.030	0.76	0.080	2.03	1.130	28.70	490	729	888	1322

12 AWG MULTI-CONDUCTORS

347450*	2	12	7/.0305	0.030	0.76	0.045	1.14	0.410	10.41	41	61	96	143
347460*	3	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	65	96	125	186
347470*	4	12	7/.0305	0.030	0.76	0.045	1.14	0.475	12.07	86	128	157	234
347480*	5	12	7/.0305	0.030	0.76	0.045	1.14	0.520	13.21	108	160	191	284
347490*	7	12	7/.0305	0.030	0.76	0.060	1.52	0.595	15.11	150	224	260	387
347500*	9	12	7/.0305	0.030	0.76	0.060	1.52	0.695	17.65	193	288	340	506
347510*	12	12	7/.0305	0.030	0.76	0.060	1.52	0.780	19.81	258	385	429	638
347520*	19	12	7/.0305	0.030	0.76	0.080	2.03	0.930	23.62	403	600	681	1013
347530*	25	12	7/.0305	0.030	0.76	0.080	2.03	1.095	27.81	515	767	885	1317
347540*	30	12	7/.0305	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1005	1496
347550*	37	12	7/.0305	0.030	0.76	0.080	2.03	1.240	31.50	741	1103	1185	1764

10 AWG MULTI-CONDUCTORS

347560*	2	10	7/.0385	0.030	0.76	0.045	1.14	0.455	11.56	67	100	130	193
347570*	3	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	101	150	168	250
347580*	4	10	7/.0385	0.030	0.76	0.060	1.52	0.515	13.08	135	200	229	341
347590*	5	10	7/.0385	0.030	0.76	0.060	1.52	0.615	15.62	167	249	281	418
347600*	7	10	7/.0385	0.030	0.76	0.060	1.52	0.670	17.02	234	349	377	561
347610*	9	10	7/.0385	0.030	0.76	0.060	1.52	0.785	19.94	295	440	479	713
347620*	12	10	7/.0385	0.030	0.76	0.080	2.03	0.895	22.73	402	598	644	958

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

Arctic-Flex®

XLPE/Arctic-PVC, Low-Voltage Power, Unshielded
600 V, UL Type TC-ER¹, CSA Type RW90 XLPE, CSA Type TC

Product Construction:

Conductor:

- 8 AWG thru 500 kcmil bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per CSA Standard C22.2 No. 38 as follows:

Number of color coding of circuit conductors

No. of Cond.	Color Code
2	blk, wht
3	blk, red, blu
4	blk, red, blu, wht
≥5	all black

All conductors for all constructions are alphanumeric printed

Ground (Bonding) Conductor:

- Uninsulated bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Arctic-grade Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (UL) TYPE TC-ER ARCTIC-FLEX® XX/C XXAWG WITH GRND FR-XLP/PVC XHHW-2 CDRS 90C WET OR DRY SUN RES DIR BUR 600 V (CSA) TYPE RW90 XLPE -40C TC FT4 600 V PLUS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper
- Class C stranding



Options (cont'd.):

- Overall shielded multi-conductors
- Optional Color Code as specified per CSA standard C22.2 No. 38 for two to four conductor cable
- Non-UL 1000 volt CSA Type RW90 XLPE, CSA Type TC
- Other constructions are available upon request

Applications:

- Industrial power and control circuits
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors
- Approved for direct burial; Class I, Div. 2 industrial hazardous locations per NEC for UL Type TC cables. In Canada protection may be required by inspection authority per Canadian electrical code
- Approved for cable in tray; industrial hazardous locations; Class I Zone 2; and Class I, Division 2 per CEC rules 18-156 and 18-252 when used with certified HL cable glands

Features:

- Rated 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Meets CSA cold impact test at -40°C
- Meets ICEA and CSA cold bend test at -60°C
- Meets the crush and impact requirements of Type MC cable

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-95-658/NEMA WC70
- CSA C22.2 No. 38 RW90 XLPE
- CSA C22.2 No. 230 Type TC

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to lengths and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
8 AWG - 500 kcmil MULTI-CONDUCTORS														
347150*	3	8	7/.0486	10	0.045	1.14	0.060	1.52	0.640	16.26	190	283	314	467
347160*	4	8	7/.0486	10	0.045	1.14	0.060	1.52	0.705	17.91	242	360	385	573
347170*	3	6	7/.0612	8	0.045	1.14	0.060	1.52	0.720	18.29	301	448	445	662
347180*	4	6	7/.0612	8	0.045	1.14	0.060	1.52	0.790	20.07	384	571	558	830
347190*	3	4	7/.0772	8	0.045	1.14	0.080	2.03	0.875	22.23	448	667	653	972
347200*	4	4	7/.0772	8	0.045	1.14	0.080	2.03	0.950	24.13	578	862	820	1220
347210*	3	2	7/.0974	6	0.045	1.14	0.080	2.03	1.000	25.40	716	1066	964	1435
347220*	4	2	7/.0974	6	0.045	1.14	0.080	2.03	1.095	27.81	919	1368	1214	1807
371280*	3	1	19/.0664	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1199	1784
371290*	4	1	19/.0664	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1704	2536
347230*	3	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.215	30.86	1081	1609	1414	2104
347240*	4	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.340	34.04	1413	2103	1825	2716
347250*	3	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.310	33.27	1341	1996	1706	2539
347260*	4	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.450	36.83	1760	2619	2223	3308
371300*	3	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2437	3627
371310*	4	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	3123	4648
347270*	3	4/0	19/.1055	4	0.055	1.40	0.080	2.03	1.540	39.12	2132	3173	2600	3869
347280*	4	4/0	19/.1055	4	0.055	1.40	0.110	2.79	1.765	44.83	2796	4161	3444	5125
347290*	3	250	37/.0822	4	0.065	1.65	0.110	2.79	1.750	44.45	2494	3712	3142	4676
347300*	4	250	37/.0822	4	0.065	1.65	0.110	2.79	1.930	49.02	3282	4884	4048	6024
347310*	3	350	37/.0973	3	0.065	1.65	0.110	2.79	1.970	50.04	3474	5170	4230	6295
347320*	4	350	37/.0973	3	0.065	1.65	0.110	2.79	2.180	55.37	4577	6811	5470	8140
347330*	3	500	37/.1162	2	0.065	1.65	0.110	2.79	2.250	57.15	4938	7349	5829	8675

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.



Phone: 888-593-3355
www.generalcable.com

CCTC™

FR-XLPE/CPE, Control, Shielded
600 V, UL Type TC-ER¹ – E-1 Color Code

Product Construction:

Conductor:

- 14 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Cross-linked Polyethylene (FR-XLPE) insulation
- Color-coded per ICEA Method 1, Table E-1 (includes white or green)

Shield:

- Bare 5 mil corrugated copper tape longitudinally applied

Jacket:

- Lead-free, flame-retardant thermoplastic Chlorinated Polyethylene (CPE)

Print

- GENERAL CABLE® (PLANT OF MFG) CCTC™ XX/C XXAWG FR-XLPE/CPE (UL) TYPE TC-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Tinned copper conductor
- Class C stranding
- E-2 Color Code
- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Other constructions available upon request



Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors
- Approved for direct burial
- Class I, Division 2 industrial hazardous locations per NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Sunlight- and weather-resistant
- Excellent moisture resistance
- Excellent resistance to compression cuts and heat deformation
- Low coefficient of friction for easy pulling
- Excellent flame resistance—burns to ash; does not exhibit thermoplastic drip
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -40°C
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
14 AWG MULTI-CONDUCTORS													
397310*	2	14	7/.0242	0.030	0.76	0.045	1.14	0.440	11.18	50	74	96	143
397320*	3	14	7/.0242	0.030	0.76	0.045	1.14	0.460	11.68	65	97	119	177
397330*	4	14	7/.0242	0.030	0.76	0.045	1.14	0.495	12.57	80	119	143	213
397340*	5	14	7/.0242	0.030	0.76	0.060	1.52	0.565	14.35	95	141	182	271
397350*	7	14	7/.0242	0.030	0.76	0.060	1.52	0.605	15.37	123	183	227	338
397360*	9	14	7/.0242	0.030	0.76	0.060	1.52	0.685	17.40	153	228	279	415
397370*	12	14	7/.0242	0.030	0.76	0.060	1.52	0.760	19.30	196	292	349	519
12 AWG MULTI-CONDUCTORS													
397380*	2	12	7/.0305	0.030	0.76	0.045	1.14	0.480	12.19	67	100	119	177
397390*	3	12	7/.0305	0.030	0.76	0.045	1.14	0.500	12.70	90	134	151	225
397400*	4	12	7/.0305	0.030	0.76	0.060	1.52	0.570	14.48	112	167	199	296
397410*	5	12	7/.0305	0.030	0.76	0.060	1.52	0.615	15.62	135	201	234	348
397420*	7	12	7/.0305	0.030	0.76	0.060	1.52	0.660	16.76	177	263	297	442
397430*	9	12	7/.0305	0.030	0.76	0.060	1.52	0.755	19.18	225	335	370	551
397440*	12	12	7/.0305	0.030	0.76	0.060	1.52	0.835	21.21	291	433	468	696
10 AWG MULTI-CONDUCTORS													
397450*	2	10	7/.0385	0.030	0.76	0.060	1.52	0.555	14.10	94	140	167	248
397460*	3	10	7/.0385	0.030	0.76	0.060	1.52	0.580	14.73	129	192	215	320
397470*	4	10	7/.0385	0.030	0.76	0.060	1.52	0.630	16.00	164	244	264	393
397480*	5	10	7/.0385	0.030	0.76	0.060	1.52	0.680	17.27	201	299	317	472
397490*	7	10	7/.0385	0.030	0.76	0.060	1.52	0.730	18.54	269	400	408	607
397500*	9	10	7/.0385	0.030	0.76	0.080	2.03	0.885	22.48	342	509	547	814
397510*	12	10	7/.0385	0.030	0.76	0.080	2.03	0.975	24.77	444	661	691	1028

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

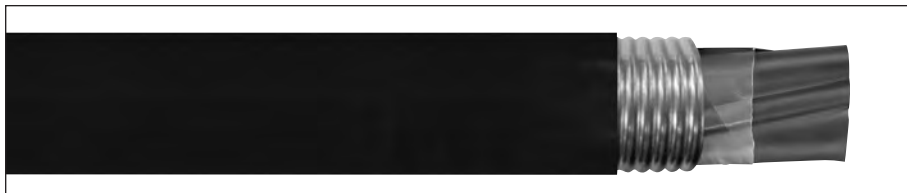


Phone: 888-593-3355
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CCTC™

FR-XLPE/CPE, Low-Voltage Power, Shielded 600 V, UL Type TC-ER¹ – Method 4 Color Code



Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent low temperature cold bend characteristics
- Excellent flame resistance—burns to ash; does not exhibit thermoplastic drip
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -40°C

Product Construction:

Conductor:

- 8 AWG thru 2 AWG bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-Retardant Cross-linked Polyethylene (FR-XLPE) insulation
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Shield:

- Bare 5 mil corrugated copper tape longitudinally applied

Ground:

- Uninsulated bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Jacket:

- Lead-free, flame-retardant thermoplastic Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) CCTC™ XX/C XXAWG WITH GRND FR-XLPE/CPE (UL) TYPE TC-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- 2 kV version
- Tinned copper conductor
- Class C stranding
- E-1 or E-2 Color Code
- Insulated ground conductors
- Flame-Retardant Ethylene Propylene Rubber (FR-EPR) Type II
- Flame-retardant, thermoplastic Low-Smoke, Zero-Halogen (LSZH) jacket
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER, UL File # E57179
- UL 1581
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4
- ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
8 AWG - 2 AWG MULTI-CONDUCTORS														
397520*	3	8	7/.0486	10	0.045	1.14	0.060	1.52	0.715	18.16	229	341	356	530
397530*	4	8	7/.0486	10	0.045	1.14	0.060	1.52	0.775	19.69	283	421	435	647
397540*	3	6	7/.0612	8	0.045	1.14	0.060	1.52	0.790	20.07	336	500	483	719
397550*	4	6	7/.0612	8	0.045	1.14	0.080	2.03	0.905	22.99	421	626	634	943
397560*	3	4	7/.0772	8	0.045	1.14	0.080	2.03	0.935	23.75	499	743	711	1058
397570*	4	4	7/.0772	8	0.045	1.14	0.080	2.03	1.020	25.91	636	946	888	1321
397580*	3	2	7/.0974	6	0.045	1.14	0.080	2.03	1.060	26.92	755	1123	1007	1498
397590*	4	2	7/.0974	6	0.045	1.14	0.080	2.03	1.160	29.46	964	1434	1267	1885

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.



Phone: 888-593-3355
www.generalcable.com

CVTC®

XLPE/PVC, Control, Unshielded

600 V, UL Type TC-ER¹—E-2 Color Code

Product Construction:

Conductor:

- 14 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print

- GENERAL CABLE® (PLANT OF MFG) CVTC® XX/C XXAWG FR-XLP/PVC (UL) TYPE TC-ER XHHW-2 CDRS DIR BUR SUN RES 90°C WET OR DRY 600 V DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- E-1 Color Code
- Overall shielded multi-conductors
- Ethylene Propylene Rubber (EPR) insulation
- Low-lead Hypalon Chlorosulfonated Polyethylene (CSPE)/Elastomer blend—see CHTC® Spec 4050
- Insulated or uninsulated ground conductor
- Other constructions available upon request

Applications:

- In free air, raceways and direct burial
- In wet or dry locations
- Approved for direct burial
- Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent electrical properties
- Abrasion- and chemical-resistant
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

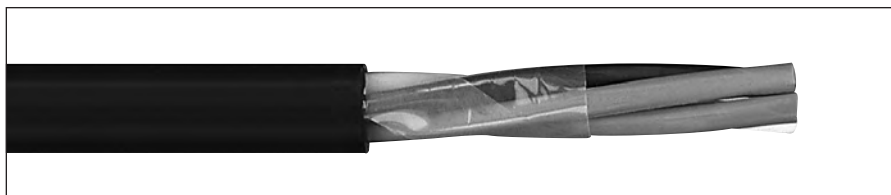
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

770460	2 Flat	14	7/.0242	0.030	0.76	0.045	1.14	.235 x .370	5.97 x 9.40	25	37	62	92
771080*	2	14	7/.0242	0.030	0.76	0.045	1.14	0.365	9.27	25	37	73	109
770530	3	14	7/.0242	0.030	0.76	0.045	1.14	0.390	9.91	40	59	93	138
770610	4	14	7/.0242	0.030	0.76	0.045	1.14	0.425	10.80	53	79	116	173
770420	5	14	7/.0242	0.030	0.76	0.045	1.14	0.465	11.81	66	99	140	208
770560	7	14	7/.0242	0.030	0.76	0.045	1.14	0.590	14.99	93	138	176	262
770540	9	14	7/.0242	0.030	0.76	0.060	1.52	0.620	15.75	119	177	245	365
770470	12	14	7/.0242	0.030	0.76	0.060	1.52	0.680	17.27	159	237	302	449
770550	19	14	7/.0242	0.030	0.76	0.060	1.52	0.800	20.32	252	375	460	685
770450*	25	14	7/.0242	0.030	0.76	0.080	2.03	0.985	25.02	323	481	641	954
295320*	30	14	7/.0242	0.030	0.76	0.080	2.03	1.050	26.67	387	571	740	1101
770430*	37	14	7/.0242	0.030	0.76	0.080	2.03	1.130	28.70	490	729	888	1322

12 AWG MULTI-CONDUCTORS

770480	2 Flat	12	7/.0305	0.030	0.76	0.045	1.14	.245 x .400	6.22 x 10.16	40	60	86	128
346920*	2	12	7/.0305	0.030	0.76	0.045	1.14	0.410	10.41	41	61	96	143
365720	3+ Grnd	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	86	128	143	213
770570	3	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	65	96	125	186
770490	4	12	7/.0305	0.030	0.76	0.045	1.14	0.475	12.07	86	128	157	234
770410	5	12	7/.0305	0.030	0.76	0.045	1.14	0.515	13.08	108	160	191	284
770950	7	12	7/.0305	0.030	0.76	0.060	1.52	0.595	15.11	150	224	260	387
770580	9	12	7/.0305	0.030	0.76	0.060	1.52	0.695	17.65	193	288	340	506
770520	12	12	7/.0305	0.030	0.76	0.060	1.52	0.780	19.81	258	385	429	638
770700*	19	12	7/.0305	0.030	0.76	0.080	2.03	0.930	23.62	403	600	681	1013
347110*	25	12	7/.0305	0.030	0.76	0.080	2.03	1.095	27.81	515	767	885	1317
347120*	30	12	7/.0305	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1005	1496
347130*	37	12	7/.0305	0.030	0.76	0.080	2.03	1.240	31.50	741	1103	1185	1764

10 AWG MULTI-CONDUCTORS

770590	2 Flat	10	7/.0385	0.030	0.76	0.045	1.14	.290 x .480	7.37 x 12.19	66	98	114	170
346930*	2	10	7/.0385	0.030	0.76	0.045	1.14	0.455	11.56	67	100	130	193
770670	3+ Grnd	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	135	200	201	299
770600	3	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	101	150	173	257
770370	4	10	7/.0385	0.030	0.76	0.060	1.52	0.515	13.08	135	200	236	351
770380	5	10	7/.0385	0.030	0.76	0.060	1.52	0.615	15.62	167	249	287	427
770900	7	10	7/.0385	0.030	0.76	0.060	1.52	0.670	17.02	234	349	371	552
770390*	9	10	7/.0385	0.030	0.76	0.060	1.52	0.785	19.94	295	440	479	713
770400	12	10	7/.0385	0.030	0.76	0.080	2.03	0.895	22.73	402	598	644	958

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

CVTC®

XLPE/PVC, Low-Voltage Power, Unshielded 600 V, UL Type TC-ER¹—Method 4 Color Code



Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Abrasion- and chemical-resistant
- Excellent electrical properties
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

Product Construction:

Conductor:

- 14 AWG thru 750 kcmil bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- Uninsulated bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) CVTC® XX/C XXAWG WITH GRND FR-XLP/PVC (UL)

Print (cont'd.):

TYPE TC-ERXHHW-2 CDRS 90°C WET OR DRY
DIR BUR SUN RES 600 V DAY/MONTH/YEAR
SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- E-1 or E-2 Color Code
- Insulated ground conductors
- Overall shielded multi-conductors
- Flame-retardant Ethylene Propylene Rubber (EPR) insulation
- Low-lead Hypalon Chlorosulfonated Polyethylene (CSPE)/Elastomer blend—see CHTC® Spec 4100
- ICEA 1000 V rated cable
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER, UL File # E57179
- UL 1581
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
14 AWG - 750 kcmil MULTI-CONDUCTORS														
383860*	3	14	7/.0242	14	0.030	0.76	0.045	1.14	0.390	9.91	53	79	116	173
383870*	3	12	7/.0305	12	0.030	0.76	0.045	1.14	0.435	11.05	86	128	157	234
383880*	3	10	7/.0385	10	0.030	0.76	0.060	1.52	0.485	12.32	135	200	236	351
783160	3	8	7/.0486	10	0.045	1.14	0.060	1.52	0.640	16.26	190	283	314	467
783190	4	8	7/.0486	10	0.045	1.14	0.060	1.52	0.705	17.91	242	360	385	573
339470	3	6	7/.0612	8	0.045	1.14	0.060	1.52	0.720	18.29	301	448	445	662
339480	4	6	7/.0612	8	0.045	1.14	0.060	1.52	0.790	20.07	384	571	558	830
783330	3	4	7/.0772	8	0.045	1.14	0.080	2.03	0.875	22.23	448	667	653	972
339500*	4	4	7/.0772	8	0.045	1.14	0.080	2.03	0.950	24.13	578	862	820	1220
325610	3	2	7/.0974	6	0.045	1.14	0.080	2.03	1.000	25.40	716	1066	964	1435
339520*	4	2	7/.0974	6	0.045	1.14	0.080	2.03	1.095	27.81	919	1368	1214	1807
352150*	3	1	19/.0664	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1199	1784
371250*	4	1	19/.0664	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1704	2536
339530	3	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.215	30.86	1081	1609	1414	2104
339540*	4	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.340	34.04	1413	2103	1825	2716
339550	3	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.310	33.27	1341	1996	1706	2539
339560*	4	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.450	36.83	1760	2619	2223	3308
371260*	3	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2437	3627
371270*	4	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	3123	4648
783230	3	4/0	19/.1055	4	0.055	1.40	0.080	2.03	1.540	39.12	2132	3173	2600	3869
339570*	4	4/0	19/.1055	4	0.055	1.40	0.110	2.79	1.765	44.83	2796	4161	3444	5125
328540*	3	250	37/.0822	4	0.065	1.65	0.110	2.79	1.750	44.45	2494	3712	3142	4676
339590*	4	250	37/.0822	4	0.065	1.65	0.110	2.79	1.930	49.02	3282	4884	4048	6024
222570	3	350	37/.0973	3	0.065	1.65	0.110	2.79	1.970	50.04	3474	5170	4230	6295
339600*	4	350	37/.0973	3	0.065	1.65	0.110	2.79	2.180	55.37	4577	6811	5470	8140
222710	3	500	37/.1162	2	0.065	1.65	0.110	2.79	2.250	57.15	4938	7349	5829	8675
06790.086500*	4	500	37/.1162	2	0.065	1.65	0.110	2.79	2.475	62.87	6509	9687	7579	11279
06790.077000*	3	750	61/.1109	1	0.080	2.03	0.140	3.56	2.810	71.37	7278	10831	9101	13544
06790.047000*	4	750	61/.1109	1	0.080	2.03	0.140	3.56	3.115	79.12	9712	14453	11746	17480

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.



Phone: 888-593-3355
www.generalcable.com

CVTC® VFD

XLPE/PVC, Low-Voltage Power, Shielded
2000 V, UL Type TC-ER¹—Method 4 Color Code

Product Construction:

Conductor:

- 14 AWG thru 500 kcmil fully annealed tinned stranded copper
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)—90°C, VW-1
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- 3 symmetrically placed annealed tinned copper conductors in direct contact with shield
- Class B stranding per ASTM B8

Dual Shield:

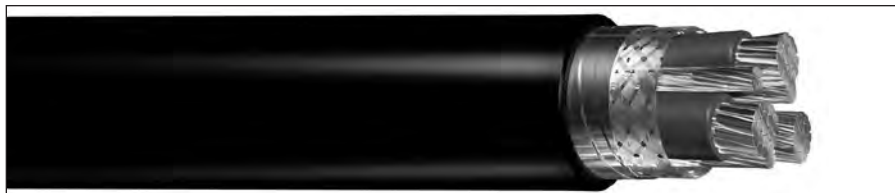
- Overall tinned copper braided shield in conjunction with an aluminum/polymer tape shield

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) CVTC® VFD XX/C XXAWG WITH GRND FR-XLP/PVC (UL) TYPE TC-ER RHH or RHW-2 CDRS 90°C WET OR DRY 2000 V DIR BUR SUN RES DAY/MONTH/YEAR SEQUENTIAL FOOTAGE MARK



Applications:

- For use with AC motors controlled by pulse-width modulated inverter in VFD applications rated up to 2000 volts. These motor drive systems require cables that are designed to prevent radio frequency interference (RFI) which can lead to malfunction
- In raceways, cable trays or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC

Features:

- Rated at 90°C wet or dry
- Dual shield provides maximum shield coverage required for Variable Frequency Drive (VFD) applications
- Meets cold bend test at -25°C
- Meets crush and impact requirements to Type MC cable

Features (cont'd.):

- Abrasion- and chemical-resistant
- Excellent electrical properties
- Sunlight- and weather-resistant

Compliances:

Industry Compliances:

- UL 1277 Type TC-ER, UL File # E57179
- UL Type RHH or RHW-2 conductors per UL 44

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
14 AWG - 500 kcmil MULTI-CONDUCTORS														
384730*	3	14	7/.0242	3 x 18	0.060	1.52	0.060	1.52	0.565	14.35	79	118	190	283
384740*	3	12	7/.0305	3 x 16	0.060	1.52	0.060	1.52	0.605	15.37	114	170	236	351
384750*	3	10	7/.0385	3 x 14	0.060	1.52	0.060	1.52	0.665	16.89	172	256	313	466
384760*	3	8	7/.0486	3 x 14	0.070	1.78	0.060	1.52	0.785	19.94	234	348	420	625
384770*	3	6	7/.0612	3 x 12	0.070	1.78	0.080	2.03	0.910	23.11	354	527	605	900
384780*	3	4	7/.0772	3 x 12	0.070	1.78	0.080	2.03	1.010	25.65	507	755	800	1191
384790*	3	2	7/.0974	3 x 10	0.070	1.78	0.080	2.03	1.315	28.83	783	1165	1126	1676
384800*	3	1/0	19/.0745	3 x 6	0.090	2.29	0.080	2.03	1.390	35.31	1251	1861	1832	2726
384810*	3	2/0	19/.0837	3 x 6	0.090	2.29	0.080	2.03	1.490	37.85	1511	2248	2134	3175
384820*	3	3/0	19/.0940	3 x 5	0.090	2.29	0.080	2.03	1.595	40.51	1897	2823	2553	3799
384830*	3	4/0	19/.1055	3 x 4	0.090	2.29	0.110	2.79	1.775	45.09	2355	3504	3254	4842
384840*	3	250	37/.0822	3 x 4	0.105	2.67	0.110	2.79	1.940	49.28	2719	4046	3726	5544
384850*	3	350	37/.0973	3 x 2	0.105	2.67	0.110	2.79	2.160	54.86	3883	5778	5040	7500
384860*	3	500	37/.1162	3 x 1	0.105	2.67	0.110	2.79	2.440	61.98	5507	8194	6809	10132

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

CVTC® VFD

XLPE/PVC, Low-Voltage Power, Copper Tape Shielded
2000 V, UL Type TC-ER¹—Method 4 Color Code



Product Construction:

Conductor:

- 14 AWG thru 500 kcmil fully annealed bare stranded copper
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)—90°C, VW-1
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- 3 symmetrically placed annealed bare copper conductors in direct contact with shield
- Class B stranding per ASTM B8

Metallic Shield:

- Overall 5 mil annealed bare copper tape shield with 50% overlap

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) CVTC® VFD XX/C XXAWG WITH GRNDS FR-XLP/PVC (UL) TYPE TC-ER RHH or RHW-2 CDRS 90°C WET OR DRY 2000 V DIR BUR SUN RES DAY/MONTH/YEAR SEQUENTIAL FOOTAGE MARK

Applications:

- For use with AC motors controlled by pulse-width modulated inverter in VFD applications rated up to 2000 volts. These motor drive systems require cables that are designed to prevent radio frequency interference (RFI) which can lead to malfunction
- In raceways, cable trays or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC

Features:

- Rated at 90°C wet or dry
- Overlapped bare copper tape shield provides necessary shield coverage required for Variable Frequency Drive (VFD) applications
- Meets cold bend test at -25°C
- Meets crush and impact requirements for Type MC cable
- Abrasion- and chemical-resistant
- Excellent electrical properties
- Sunlight- and weather-resistant

Compliances:

Industry Compliances:

- UL 1277 Type TC-ER, 2000 V, UL File # E57179
- UL Type RHH or RHW-2 conductors per UL 44

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
14 AWG - 500 kcmil MULTI-CONDUCTORS														
395070V	3	14	7/.0242	3 x 18	0.060	1.52	0.060	1.52	0.580	14.73	91	135	212	315
395080V	3	12	7/.0305	3 x 16	0.060	1.52	0.060	1.52	0.615	15.37	127	189	260	387
395090V	3	10	7/.0385	3 x 14	0.060	1.52	0.060	1.52	0.670	17.02	183	272	329	490
395100V	3	8	7/.0486	3 x 14	0.070	1.78	0.060	1.52	0.770	19.56	246	366	441	656
395110V	3	6	7/.0612	3 x 12	0.070	1.78	0.080	2.03	0.895	22.73	368	548	618	920
395120V	3	4	7/.0772	3 x 12	0.070	1.78	0.080	2.03	0.995	25.27	522	777	830	1235
395130V	3	2	7/.0974	3 x 10	0.070	1.78	0.080	2.03	1.125	28.58	801	1192	1152	1714
395140V	3	1/0	19/.0745	3 x 6	0.090	2.29	0.080	2.03	1.385	35.18	1348	2006	1853	2757
395150V	3	2/0	19/.0837	3 x 6	0.090	2.29	0.080	2.03	1.480	37.59	1616	2405	2169	3227
395160V*	3	3/0	19/.0940	3 x 5	0.090	2.29	0.080	2.03	1.590	40.39	2010	2991	2619	3897
395170V	3	4/0	19/.1055	3 x 4	0.090	2.29	0.110	2.79	1.780	45.21	2517	3745	3241	4823
395180V*	3	250	37/.0822	3 x 4	0.105	2.67	0.110	2.79	1.940	49.28	2895	4308	3763	5599
395190V	3	350	37/.0973	3 x 2	0.105	2.67	0.110	2.79	2.160	54.86	4089	6084	5109	7602
395200V	3	500	37/.1162	3 x 1	0.105	2.67	0.110	2.79	2.455	62.36	5693	8471	6933	10316

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

VNTC®

PVC/Nylon/PVC, Control, Unshielded
600 V, UL Type TC-ER¹ (18 AWG/16 AWG)—E-2 Color Code

Product Construction:

Conductor:

- 18 AWG and 16 AWG fully annealed stranded bare copper to ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon)
- Color-coded per ICEA Method 1, Table E-2 plus alpha-numeric printed numbers (does not include white or green)

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print

- GENERAL CABLE® (PLANT OF MFG) VNTC® XX/C XXAWG (UL) TYPE TC-ER TFN SUN RES DIR BUR 600 V ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- E-1 Color Code
- Overall shielded multi-conductors
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Approved for direct burial
- Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors

Features:

- Rated at 90°C dry, 75°C wet
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Provides outstanding sunlight, cold bend and cold impact resistance
- Offers the smallest cable O.D. available for suitable applications
- Provides long service life
- Provides good oil and chemical resistance
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

Compliances:

Industry Compliances:

- UL 66 NEC Type TFN conductors
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

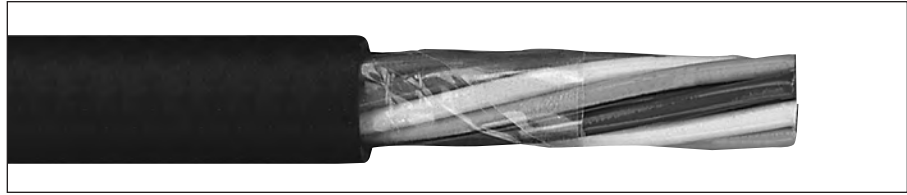
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

18 AWG MULTI-CONDUCTORS

236090	2 Flat	18	7/.0152	0.020	0.51	0.045	1.14	.190 x .285	4.80 x 7.20	10	15	36	54
318050*	2	18	7/.0152	0.020	0.51	0.045	1.14	0.270	6.86	11	19	38	57
245920	3	18	7/.0152	0.020	0.51	0.045	1.14	0.285	7.24	15	23	46	68
236100	4	18	7/.0152	0.020	0.51	0.045	1.14	0.310	7.87	20	30	56	83
244680	5	18	7/.0152	0.020	0.51	0.045	1.14	0.335	8.51	26	38	65	97
244660	7	18	7/.0152	0.020	0.51	0.045	1.14	0.360	9.14	36	53	82	122
264570*	9	18	7/.0152	0.020	0.51	0.045	1.14	0.420	10.67	46	69	105	156
233270*	10	18	7/.0152	0.020	0.51	0.045	1.14	0.425	10.80	51	76	114	170
236120	12	18	7/.0152	0.020	0.51	0.045	1.14	0.445	11.30	61	91	131	195
244720*	15	18	7/.0152	0.020	0.51	0.045	1.14	0.485	12.32	77	114	162	241
236130	19	18	7/.0152	0.020	0.51	0.060	1.52	0.570	14.48	97	144	209	311
236140*	25	18	7/.0152	0.020	0.51	0.060	1.52	0.655	16.64	128	190	266	396
347140*	30	18	7/.0152	0.020	0.51	0.060	1.52	0.695	17.65	154	229	310	461
236150	37	18	7/.0152	0.020	0.51	0.060	1.52	0.745	18.92	189	281	371	552

16 AWG MULTI-CONDUCTORS

236160	2 Flat	16	7/.0192	0.020	0.51	0.045	1.14	.200 x .310	5.08 x 7.87	16	24	42	71
245580	2	16	7/.0192	0.020	0.51	0.045	1.14	0.300	7.62	20	29	50	74
236170	3	16	7/.0192	0.020	0.51	0.045	1.14	0.315	8.00	24	36	60	89
236180	4	16	7/.0192	0.020	0.51	0.045	1.14	0.340	8.64	32	48	74	110
236190	5	16	7/.0192	0.020	0.51	0.045	1.14	0.370	9.40	40	60	97	144
236210	7	16	7/.0192	0.020	0.51	0.045	1.14	0.400	10.16	56	84	111	165
243640	9	16	7/.0192	0.020	0.51	0.045	1.14	0.460	11.68	72	108	141	210
236230*	10	16	7/.0192	0.020	0.51	0.045	1.14	0.495	12.57	80	119	154	229
236240	12	16	7/.0192	0.020	0.51	0.045	1.14	0.505	12.83	97	144	178	265
244650*	15	16	7/.0192	0.020	0.51	0.060	1.52	0.605	15.37	121	180	239	356
236260	19	16	7/.0192	0.020	0.51	0.060	1.52	0.635	16.13	153	228	284	423
236280	25	16	7/.0192	0.020	0.51	0.060	1.52	0.705	17.91	201	299	364	542
244670*	30	16	7/.0192	0.020	0.51	0.060	1.52	0.760	19.30	242	360	426	634
236290*	37	16	7/.0192	0.020	0.51	0.080	2.03	0.880	22.35	306	455	552	821

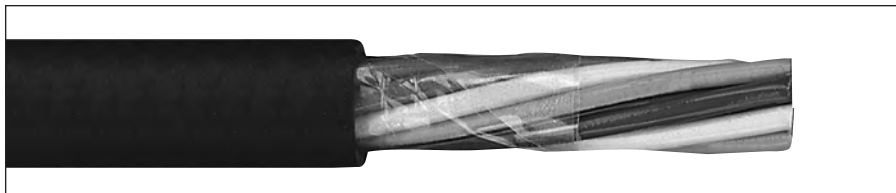
Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

VNTC®

PVC/Nylon/PVC, Control, Unshielded
600 V, UL Type TC-ER¹ (14 AWG–10 AWG)—E-2 Color Code



Product Construction:

Conductor:

- 14 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon)
- Color-coded per ICEA Method 1, Table E-2 plus alpha-numeric printed numbers (does not include white or green)

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print

- GENERAL CABLE® (PLANT OF MFG) VNTC® XX/C XXAWG (UL) TYPE TC-ER THHN/THWN SUN RES DIR BUR 600 V ROHS DAY/MONTH/ YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- E-1 Color Code
- Overall shielded multi-conductors
- Other constructions available upon request

Applications:

- In free air, raceways and direct burial
- In wet or dry locations
- Approved for direct burial
- Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors

Features:

- Rated at 90°C dry, 75°C wet
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Provides outstanding sunlight, cold bend and cold impact resistance
- Offers the smallest cable O.D. available for suitable applications
- Provides long service life
- Provides good oil and chemical resistance
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

Compliances:

Industry Compliances:

- UL 83 NEC Type THHN/THWN conductors
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

235040	2 Flat	14	7/.0242	0.020	0.51	0.045	1.14	.210 x .320	5.33 x 8.13	25	37	54	80
245590*	2	14	7/.0242	0.020	0.51	0.045	1.14	0.320	8.13	26	39	64	95
235050	3	14	7/.0242	0.020	0.51	0.045	1.14	0.345	8.76	39	58	80	119
235060	4	14	7/.0242	0.020	0.51	0.045	1.14	0.365	9.27	52	77	100	149
235070	5	14	7/.0242	0.020	0.51	0.045	1.14	0.410	10.41	65	97	118	176
235080	7	14	7/.0242	0.020	0.51	0.045	1.14	0.445	11.30	90	134	153	228
235090	9	14	7/.0242	0.020	0.51	0.060	1.52	0.505	12.83	116	173	213	317
235110	12	14	7/.0242	0.020	0.51	0.060	1.52	0.595	15.11	155	231	267	397
235130	19	14	7/.0242	0.020	0.51	0.060	1.52	0.695	17.65	245	365	396	589
235150	25	14	7/.0242	0.020	0.51	0.060	1.52	0.785	19.94	323	481	507	755
235160*	30	14	7/.0242	0.020	0.51	0.080	2.03	0.895	22.73	387	576	637	948
235170	37	14	7/.0242	0.020	0.51	0.080	2.03	0.970	24.64	478	711	766	1140

12 AWG MULTI-CONDUCTORS

234580	2 Flat	12	7/.0305	0.020	0.51	0.045	1.14	.225 x .360	5.72 x 9.14	40	60	74	110
260150*	2	12	7/.0305	0.020	0.51	0.045	1.14	0.355	9.02	41	61	85	127
234590	3	12	7/.0305	0.020	0.51	0.045	1.14	0.385	9.78	62	92	131	195
255090	3+Grnd	12	7/.0305	0.020	0.51	0.045	1.14	0.385	9.78	83	124	131	195
277460 ²	3	12	7/.0305	0.020	0.51	0.045	1.14	0.385	9.78	62	92	131	195
234600	4	12	7/.0305	0.020	0.51	0.045	1.14	0.420	10.67	83	124	138	205
226420	5	12	7/.0305	0.020	0.51	0.045	1.14	0.445	11.30	108	160	165	246
234620	7	12	7/.0305	0.020	0.51	0.045	1.14	0.490	12.45	144	214	217	323
226500	9	12	7/.0305	0.020	0.51	0.060	1.52	0.605	15.37	185	275	297	442
234640	12	12	7/.0305	0.020	0.51	0.060	1.52	0.675	17.15	247	368	377	561
243600	19	12	7/.0305	0.020	0.51	0.060	1.52	0.785	19.94	391	582	568	845
243610*	25	12	7/.0305	0.020	0.51	0.080	2.03	0.940	23.88	515	767	775	1153
321720*	30	12	7/.0305	0.020	0.51	0.080	2.03	1.030	26.16	618	920	919	1368
234680*	37	12	7/.0035	0.020	0.51	0.080	2.03	1.105	28.07	762	1134	1100	1637

10 AWG MULTI-CONDUCTORS

236300	2 Flat	10	7/.0385	0.026	0.66	0.045	1.14	.260 x .425	6.60 x 10.80	64	95	108	161
243630*	2	10	7/.0385	0.026	0.66	0.045	1.14	0.420	10.67	65	97	115	171
236310	3	10	7/.0385	0.026	0.66	0.045	1.14	0.450	11.43	131	195	191	284
255080	3+Grnd	10	7/.0385	0.026	0.66	0.045	1.14	0.450	11.43	131	195	191	284
236320	4	10	7/.0385	0.026	0.66	0.045	1.14	0.505	12.83	135	200	209	311
236330	5	10	7/.0385	0.026	0.66	0.060	1.52	0.570	14.48	169	252	268	399
236340	7	10	7/.0385	0.026	0.66	0.060	1.52	0.620	15.75	236	351	350	521
243620*	9	10	7/.0385	0.026	0.66	0.060	1.52	0.725	18.42	295	440	440	655
236350	12	10	7/.0385	0.026	0.66	0.060	1.52	0.815	20.70	404	602	584	869

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

² Color Code: black, white, green



Phone: 888-593-3355
www.generalcable.com

VNTC®

PVC/Nylon/PVC, Control, Shielded
600 V, UL Type TC-ER¹, Overall Shielded—E-2 Color Code

Product Construction:

Conductor:

- 18 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon)
- Color-coded per ICEA Method 1, Table E-2 plus alpha-numeric printed numbers (does not include white or green)

Shield:

Overall shielded multi-conductor

- Overall shield is Flexfoil® aluminum/polymer, in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print

- GENERAL CABLE® (PLANT OF MFG) SHIELDED VNTC® XX/C XX AWG (UL) TYPE TC-ER TFN OR THHN/THWN SUN RES DIR BUR 600 V ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- E-1 Color Code
- Unshielded multi-conductors
- Other constructions available upon request

Applications:

- In free air, raceways and direct burial
- In wet or dry locations
- Approved for direct burial
- Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors

Features:

- Rated at 90°C dry, 75°C wet
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Provides outstanding sunlight, cold bend and cold impact resistance
- Offers the smallest cable O.D. available for suitable applications
- Provides long service life
- Provides good oil and chemical resistance
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

Compliances:

Industry Compliances:

- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- UL 66 NEC Type TFN conductors (16 & 18 AWG)
- UL 83 NEC Type THHN/THWN conductors (14 through 10 AWG)
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

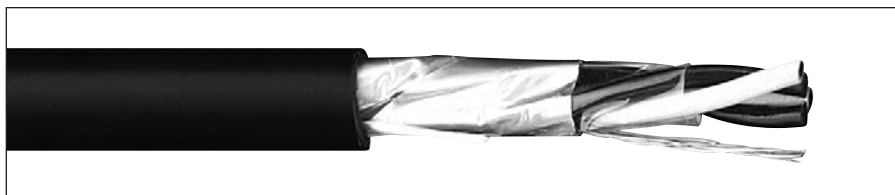
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

**OVERALL SHIELDED MULTI-CONDUCTORS
18 AWG CONDUCTORS**

261130	2	18	7/.0152	0.020	0.51	0.045	1.14	0.280	7.11	12	19	40	60
261140	3	18	7/.0152	0.020	0.51	0.045	1.14	0.290	7.37	18	26	49	73
261150	4	18	7/.0152	0.020	0.51	0.045	1.14	0.310	7.87	23	34	58	86
260000*	5	18	7/.0152	0.020	0.51	0.045	1.14	0.340	8.64	28	41	70	104
259980*	7	18	7/.0152	0.020	0.51	0.045	1.14	0.370	9.40	39	58	89	132

**OVERALL SHIELDED MULTI-CONDUCTORS
16 AWG CONDUCTORS**

247620	2	16	7/.0192	0.020	0.51	0.045	1.14	0.300	7.62	20	29	52	77
261160	3	16	7/.0192	0.020	0.51	0.045	1.14	0.320	8.13	28	41	63	94
243710	4	16	7/.0192	0.020	0.51	0.045	1.14	0.350	8.89	36	53	77	115
266580*	5	16	7/.0192	0.020	0.51	0.045	1.14	0.370	9.40	44	65	91	135
243740*	7	16	7/.0192	0.020	0.51	0.045	1.14	0.410	10.41	60	89	119	177
243560*	9	16	7/.0192	0.020	0.51	0.045	1.14	0.470	11.97	76	113	150	223
229600*	12	16	7/.0192	0.020	0.51	0.045	1.14	0.510	12.95	100	149	185	275

**OVERALL SHIELDED MULTI-CONDUCTORS
14 AWG CONDUCTORS**

243660	2	14	7/.0242	0.020	0.51	0.045	1.14	0.330	8.38	31	46	67	100
243720	3	14	7/.0242	0.020	0.51	0.045	1.14	0.350	8.89	44	65	84	125
243650	4	14	7/.0242	0.020	0.51	0.045	1.14	0.380	9.65	57	85	104	155
243570*	5	14	7/.0242	0.020	0.51	0.045	1.14	0.400	10.16	70	104	123	183
243580	7	14	7/.0242	0.020	0.51	0.045	1.14	0.440	11.18	96	142	161	240

**OVERALL SHIELDED MULTI-CONDUCTORS
12 AWG CONDUCTORS**

243670	2	12	7/.0305	0.020	0.51	0.045	1.14	0.370	9.40	43	64	83	124
243810*	3	12	7/.0305	0.020	0.51	0.045	1.14	0.390	9.91	64	95	111	165
243840	4	12	7/.0305	0.020	0.51	0.045	1.14	0.420	10.67	85	126	139	207

**OVERALL SHIELDED MULTI-CONDUCTORS
10 AWG CONDUCTORS**

243770*	2	10	7/.0385	0.026	0.66	0.045	1.14	0.430	10.92	68	101	119	177
243820*	3	10	7/.0385	0.026	0.66	0.045	1.14	0.460	11.68	101	150	162	241
243690*	4	10	7/.0385	0.026	0.66	0.045	1.14	0.500	12.70	133	198	205	305

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

VNTC®

PVC/Nylon/PVC, Low-Voltage Power, Unshielded
600 V, UL Type TC-ER¹ – Method 4 Color Code



Features:

- Rated at 90°C dry, 75°C wet
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Provide outstanding sunlight, cold bend and cold impact resistance
- Offer the smallest cable O.D. available for suitable applications
- Provide good oil and chemical resistance
- Provides a long service life
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

Compliances:

- Industry Compliances:**
- NEC Type THHN/THWN conductors
 - UL 1277 Type TC-ER, UL File # E57179
 - UL 1581
 - ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels

Product Construction:

Conductor:

- 14 AWG thru 500 kcmil bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with clear Polyimide (nylon)
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- Uninsulated bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) VNTC® XX/C XXAWG WITH GRND (UL) TYPE TC-ER THHN/THWN CDRS DIR BUR SUN RES 600 V ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Class C stranding
- Insulated ground conductors
- 5 mil bare copper tape shield with 25% overlap
- Other constructions available upon request

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
14 AWG - 500 kcmil MULTI-CONDUCTORS														
383890*	3	14	7/.0242	14	0.020	0.51	0.045	1.14	0.345	8.76	52	77	100	149
234250	3	12	7/.0305	12	0.020	0.51	0.045	1.14	0.385	9.78	86	128	138	205
234260	3	10	7/.0385	10	0.020	0.51	0.045	1.14	0.450	11.43	135	200	209	311
386700**	3	10	7/.0385	10	0.020	0.51	0.045	1.14	0.450	11.43	135	200	209	311
236370	3	8	7/.0486	10	0.036	0.91	0.060	1.52	0.600	15.24	189	281	308	458
236380	4	8	7/.0486	10	0.036	0.91	0.060	1.52	0.655	16.64	241	359	373	555
226410	3	6	7/.0612	8	0.036	0.91	0.060	1.52	0.690	17.53	300	446	434	646
231980	4	6	7/.0612	8	0.036	0.91	0.060	1.52	0.760	19.30	383	570	533	793
236400	3	4	7/.0772	8	0.048	1.22	0.080	2.03	0.875	22.28	446	664	650	967
236410*	4	4	7/.0772	8	0.048	1.22	0.080	2.03	0.970	24.64	578	860	824	1226
236420	3	2	7/.0974	6	0.048	1.22	0.080	2.03	1.000	25.40	710	1057	964	1435
236430*	4	2	7/.0974	6	0.048	1.22	0.080	2.03	1.100	27.94	919	1368	1227	1826
236440	3	1/0	19/.0745	6	0.059	1.50	0.080	2.03	1.225	31.12	1080	1607	1447	2153
219580*	4	1/0	19/.0745	6	0.059	1.50	0.080	2.03	1.360	34.54	1413	2103	1830	2723
243760	3	2/0	19/.0837	6	0.059	1.50	0.080	2.03	1.320	33.53	1340	1994	1754	2610
219610*	4	2/0	19/.0837	6	0.059	1.50	0.080	2.03	1.455	36.96	1760	2619	2252	3351
221560	3	4/0	19/.1055	4	0.059	1.50	0.080	2.03	1.545	39.24	2130	3170	2630	3914
329240*	4	4/0	19/.1055	4	0.059	1.50	0.110	2.79	1.770	44.96	2796	4161	3502	5212
222490	3	250	37/.0822	4	0.070	1.78	0.110	2.79	1.740	44.20	2494	3696	3177	4728
297050*	4	250	37/.0822	4	0.070	1.78	0.110	2.79	1.945	49.40	3281	4883	4107	6112
226430	3	350	37/.0973	3	0.070	1.78	0.110	2.79	1.990	50.55	3474	5170	4263	6344
297060*	4	350	37/.0973	3	0.070	1.78	0.110	2.79	2.190	55.63	4586	6825	5585	8312
219630	3	500	37/.1162	2	0.070	1.78	0.110	2.79	2.270	57.66	4934	7343	5890	8765
222510*	4	500	37/.1162	2	0.070	1.78	0.110	2.79	2.505	63.63	6509	9687	7694	11450

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

** E-2 Color Code.

¹ Approved as TYPE TC-ER for Exposed Run applications as defined by NEC.



Phone: 888-593-3355
www.generalcable.com

20/10

PE/PVC/PVC, Control, Unshielded
600 V (18 AWG/16 AWG)—E-1 Color Code

Product Construction:

Conductor:

- 18 AWG and 16 AWG
- Bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Lead-free, clear Polyethylene (PE)

Conductor Jacket:

- Color-coded Polyvinyl Chloride (PVC)
- Color-coded per ICEA Method 1, Table E-1 (includes white and green)

Cable Core:

- Conductors are cabled with non-hygroscopic fillers as necessary, and an overall binder tape

Overall Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® SUBSTATION CONTROL CABLE X/C XXAWG CU/PE/PVC 75°C 600 V YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductors
- Class C stranding per ASTM B8
- Insulated or uninsulated ground conductors
- Copper tape shield or aluminum/polymer tape shield with tinned copper drain wire over cable core
- Bare or tinned copper braided basket weave shield
- Duralox® aluminum or galvanized steel interlocked armor
- Intergrabon® Moisture Barrier system
- Corrugated copper tape shield longitudinally applied

Applications:

- For applications where environmental factors require cable characteristics including flame-retardance, resistance to chemicals, abrasion and resistance to the harmful effects of sunlight and weather
- May be installed in ducts; cable trays; conduit; Class I, Division 2 industrial hazardous locations or continuous rigid cable supports

Features:

- Rated at 75°C
- Thermoplastic PE insulation provides chemical resistance and excellent electrical properties
- Flame-Retardant PVC conductor jacket is color-coded for easy circuit identification
- Flame-Retardant PVC overall jacket provides abrasion, chemical, sunlight and weathering resistance

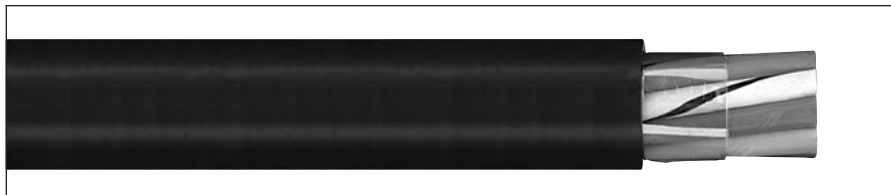
Compliances:

Industry Compliances:

- ICEA S-73-532

Other Compliances:

- EPA 10 CFR, Part 261 for leachable lead content per TCLP method



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

18 AWG MULTI-CONDUCTORS

365290*	2 Flat	18	0.025	0.64	0.045	1.14	.200 x .300	5.10 x 7.50	10	15	39	58
365300*	2	18	0.025	0.64	0.045	1.14	0.30	7.6	10	15	41	61
389710*	3	18	0.025	0.64	0.045	1.14	0.31	7.9	15	23	49	73
543640*	4	18	0.025	0.64	0.045	1.14	0.34	8.6	20	30	60	89
365320*	5	18	0.025	0.64	0.045	1.14	0.37	9.4	25	38	71	106
365330*	7	18	0.025	0.64	0.045	1.14	0.40	10.2	36	53	90	134
365340*	9	18	0.025	0.64	0.045	1.14	0.46	11.7	46	68	113	168
547230*	12	18	0.025	0.64	0.045	1.14	0.51	13.0	61	91	145	216
365350*	19	18	0.025	0.64	0.060	1.52	0.63	16.0	96	143	229	341

16 AWG MULTI-CONDUCTORS

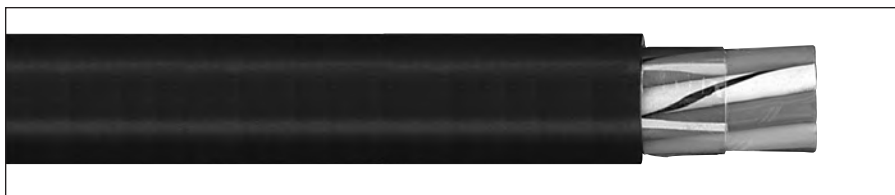
283530*	2 Flat	16	0.025	0.64	0.045	1.14	.210 x .320	5.30 x 8.10	16	24	43	84
365360*	2	16	0.025	0.64	0.045	1.14	0.32	8.1	16	24	49	73
365370*	3	16	0.025	0.64	0.045	1.14	0.34	8.6	24	36	62	92
647530*	4	16	0.025	0.64	0.045	1.14	0.37	9.4	32	48	77	115
283540*	5	16	0.025	0.64	0.045	1.14	0.40	10.2	40	60	92	137
365380*	7	16	0.025	0.64	0.045	1.14	0.43	10.9	56	84	118	176
365390*	9	16	0.025	0.64	0.045	1.14	0.50	12.7	73	108	148	220
647550*	12	16	0.025	0.64	0.060	1.52	0.59	15.0	97	144	209	311
365400*	19	16	0.025	0.64	0.060	1.52	0.69	17.5	153	228	304	452

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

20/10

PE/PVC/PVC, Control, Unshielded
600 V (14 AWG–10 AWG)–E-1 Color Code



Product Construction:

Conductor:

- 14 AWG thru 10 AWG
- Bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Lead-free, clear Polyethylene (PE)

Conductor Jacket:

- Color-coded Polyvinyl Chloride (PVC)
- Color-coded per ICEA Method 1, Table E-1 (includes white and green)

Cable Core:

- Conductors are cabled with non-hygroscopic fillers as necessary, and an overall binder tape

Overall Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® SUBSTATION CONTROL CABLE X/C XXAWG CU/PE/PVC 75°C 600 V YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductors
- Class C stranding per ASTM B8
- Insulated or uninsulated ground conductors
- Copper tape shield or aluminum/polymer tape shield with tinned copper drain wire over cable core
- Bare or tinned copper braided basket weave shield
- Duralox® aluminum or galvanized steel interlocked armor
- Intergrabon® Moisture Barrier system
- Corrugated copper tape shield longitudinally applied

Applications:

- For applications where environmental factors require cable characteristics including flame-retardance, resistance to chemicals, abrasion and resistance to the harmful effects of sunlight and weather
- May be installed in ducts; cable trays; conduit; Class I, Division 2 industrial hazardous locations or continuous rigid cable supports

Features:

- Rated at 75°C
- Thermoplastic PE insulation provides chemical resistance and excellent electrical properties
- Flame-retardant PVC conductor jacket is color-coded for easy circuit identification
- Flame-retardant PVC overall jacket provides abrasion, chemical, sunlight and weathering resistance

Compliances:

Industry Compliances:

- ICEA S-73-532

Other Compliances:

- EPA 10 CFR, Part 261 for leachable lead content per TCLP method

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

269080*	2 Flat	14	0.030	0.76	0.045	1.14	.230 x .370	5.30 x 9.30	25	38	57	85
647560*	2	14	0.030	0.76	0.045	1.14	0.37	9.4	26	38	66	98
365410*	3	14	0.030	0.76	0.045	1.14	0.39	9.9	38	57	87	130
267950*	4	14	0.030	0.76	0.045	1.14	0.42	10.7	51	76	108	161
286130*	5	14	0.030	0.76	0.045	1.14	0.46	11.7	64	95	130	194
365240*	7	14	0.030	0.76	0.045	1.14	0.50	12.7	90	133	173	258
365430*	9	14	0.030	0.76	0.060	1.52	0.62	15.8	116	172	236	351
647590*	12	14	0.030	0.76	0.060	1.52	0.69	17.5	154	229	300	447
647600*	19	14	0.030	0.76	0.060	1.52	0.80	20.3	244	363	443	659

12 AWG MULTI-CONDUCTORS

257750*	2 Flat	12	0.030	0.76	0.045	1.14	.250 x .400	6.40 x 10.30	40	60	82	122
257770*	2	12	0.030	0.76	0.045	1.14	0.40	10.2	41	61	87	130
267830*	3	12	0.030	0.76	0.045	1.14	0.43	10.9	61	91	116	173
257730*	4	12	0.030	0.76	0.045	1.14	0.47	11.9	81	121	147	219
270720*	5	12	0.030	0.76	0.045	1.14	0.52	13.2	102	152	180	268
256750*	7	12	0.030	0.76	0.060	1.52	0.59	15.0	143	212	255	380
270730*	9	12	0.030	0.76	0.060	1.52	0.68	17.3	184	273	321	478
267860*	12	12	0.030	0.76	0.060	1.52	0.77	19.6	245	364	412	613
647650*	19	12	0.030	0.76	0.080	2.03	0.94	23.9	388	577	654	973

10 AWG MULTI-CONDUCTORS

257760*	2 Flat	10	0.030	0.76	0.045	1.14	.270 x .450	6.90 x 11.40	64	96	110	164
257780*	2	10	0.030	0.76	0.045	1.14	0.45	11.4	65	96	130	194
267840*	3	10	0.030	0.76	0.045	1.14	0.48	12.2	97	96	170	253
257740*	4	10	0.030	0.76	0.060	1.52	0.52	13.2	129	144	235	350
257790*	5	10	0.030	0.76	0.060	1.52	0.60	15.2	162	192	286	426
257800*	7	10	0.030	0.76	0.060	1.52	0.66	16.8	227	241	365	543
261690*	9	10	0.030	0.76	0.060	1.52	0.76	19.3	292	337	466	694
257810*	12	10	0.030	0.76	0.080	2.03	0.90	22.9	389	434	626	932
271740*	19	10	0.030	0.76	0.080	2.03	1.05	26.7	616	579	930	1384

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

GenFree®

XLPE/LSZH, Control

600 V, UL Type TC-LS-ER¹—E-2 Color Code

Product Construction:

Conductor:

- 14 AWG thru 10 AWG stranded tinned copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant, low-smoke Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

Jacket:

- Lead-free, flame-retardant, sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print

- GENERAL CABLE® (PLANT OF MFG) GENFREE® XX/C XXAWG XLPE/LSZH (UL) TYPE TC-LS-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- E-1 Color Code
- Overall shielded multi-conductor
- Other constructions available upon request

Applications:

- In free air, raceways, aerial or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with the NEC for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression and impact
- Chemical-resistant
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -30°C
- Low-Smoke, Zero-Halogen jacket is environmentally safe
- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-LS-ER, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57
- ICEA T-33-655
- RoHS Compliant

Flame Test Compliances:

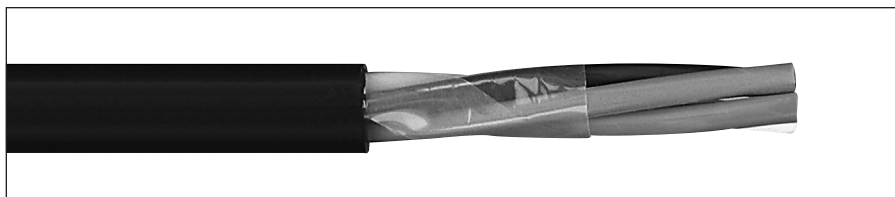
- UL 1581/UL 2556
- UL 1685 Vertical Flame Test
- IEEE 1202

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

394280	2 Flat	14	7/.0242	0.030	0.76	0.045	1.14	.365 x .230	9.30 x 5.80	26	38	61	91
394290*	2	14	7/.0242	0.030	0.76	0.045	1.14	0.370	9.40	26	39	71	106
394300	3	14	7/.0242	0.030	0.76	0.045	1.14	0.390	9.91	39	59	92	137
394310	4	14	7/.0242	0.030	0.76	0.045	1.14	0.425	10.80	53	78	115	171
394320	5	14	7/.0242	0.030	0.76	0.045	1.14	0.465	11.81	66	98	139	207
394330	7	14	7/.0242	0.030	0.76	0.045	1.14	0.505	12.83	92	137	173	257
394340	9	14	7/.0242	0.030	0.76	0.060	1.52	0.620	15.75	118	176	240	357
394350	12	14	7/.0242	0.030	0.76	0.060	1.52	0.700	17.78	158	235	301	448
394360	19	14	7/.0242	0.030	0.76	0.060	1.52	0.815	20.70	250	372	468	696
394370*	25	14	7/.0242	0.030	0.76	0.080	2.03	0.935	23.75	323	481	624	929
394380*	30	14	7/.0242	0.030	0.76	0.080	2.03	1.030	26.16	387	576	747	1112
394390*	37	14	7/.0242	0.030	0.76	0.080	2.03	1.110	28.19	466	694	875	1302

12 AWG MULTI-CONDUCTORS

394400	2 Flat	12	7/.0305	0.030	0.76	0.045	1.14	.400 x .245	10.20 x 6.20	40	60	82	122
394410*	2	12	7/.0305	0.030	0.76	0.045	1.14	0.410	10.41	41	61	94	140
394420 ²	3+ Grnd	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	85	127	148	220
394430	3	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	64	95	124	185
394440	4	12	7/.0305	0.030	0.76	0.045	1.14	0.475	12.07	85	127	157	234
394450	5	12	7/.0305	0.030	0.76	0.045	1.14	0.520	13.21	106	158	191	284
394460	7	12	7/.0305	0.030	0.76	0.060	1.52	0.595	15.11	149	221	268	399
394470	9	12	7/.0305	0.030	0.76	0.060	1.52	0.695	17.65	191	285	337	502
394480	12	12	7/.0305	0.030	0.76	0.060	1.52	0.765	19.43	247	368	428	637
394490	19	12	7/.0305	0.030	0.76	0.080	2.03	0.940	23.88	391	582	688	1024
394500*	25	12	7/.0305	0.030	0.76	0.080	2.03	1.095	27.81	515	767	854	1271
394510*	30	12	7/.0305	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1002	1491
394520*	37	12	7/.0305	0.030	0.76	0.080	2.03	1.240	31.50	762	1134	1240	1845

10 AWG MULTI-CONDUCTORS

394530	2 Flat	10	7/.0385	0.030	0.76	0.045	1.14	.445 x .270	11.30 x 6.90	64	95	113	168
394540*	2	10	7/.0385	0.030	0.76	0.045	1.14	0.455	11.56	65	97	128	190
394550 ²	3+ Grnd	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	134	199	225	335
394560	3	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	100	150	172	256
394570	4	10	7/.0385	0.030	0.76	0.060	1.52	0.560	14.22	134	199	234	348
394580	5	10	7/.0385	0.030	0.76	0.060	1.52	0.615	15.62	167	249	284	423
394590	7	10	7/.0385	0.030	0.76	0.060	1.52	0.670	17.02	234	349	381	567
394600	9	10	7/.0385	0.030	0.76	0.060	1.52	0.760	19.30	295	440	464	691
394610	12	10	7/.0385	0.030	0.76	0.080	2.03	0.905	22.99	402	598	651	696

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

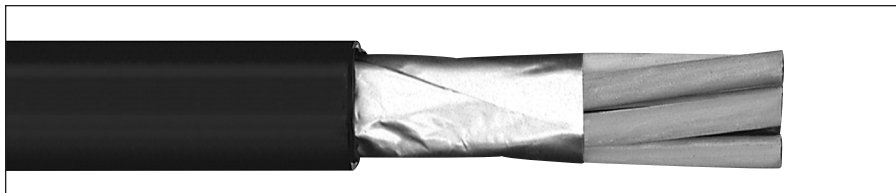
¹ Approved as -ER for Exposed Run applications of 3 or more conductors as defined by the NEC.

² This construction does not require an -ER mark.

GenFree®

XLPE/LSZH, Control, Shielded

600 V, UL Type TC-LS-ER¹, Overall Shielded—E-2 Color Code



Product Construction:

Conductor:

- 16 AWG thru 10 AWG stranded tinned copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant, low-smoke Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

Shield:

- Overall shielded multi-conductor cable
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print

- GENERAL CABLE® (PLANT OF MFG) SHIELDED GENFREE® XX/C XXAWG XLPE/LSZH (UL) TYPE TC-LS-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- E-1 Color Code
- Unshielded multi-conductors
- Other constructions available upon request

Applications:

- In free air, raceway, aerial and direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with the NEC for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression and impact
- Chemical-resistant
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -30°C
- Low-Smoke, Zero-Halogen jacket is environmentally safe
- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

Compliances:

- **Industry Compliances:**
 - UL 44 Type XHHW-2
 - UL 1277 Type TC-LS-ER, UL File # E57179
 - UL 1581/UL 2556
 - ICEA S-73-532/NEMA WC57
 - ICEA T-33-655
 - RoHS Compliant
- **Flame Test Compliances:**
 - UL 1581/UL 2556
 - UL 1685 Vertical Flame Test
 - IEEE 1202
- **Other Compliances:**
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP
 - OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELDED MULTI-CONDUCTORS 16 AWG CONDUCTORS

394960*	2	16	7/0192	0.025	0.64	0.045	1.14	0.320	8.13	19	28	52	77
394630*	3	16	7/0192	0.025	0.64	0.045	1.14	0.335	8.51	27	40	66	98

OVERALL SHIELDED MULTI-CONDUCTORS 14 AWG CONDUCTORS

394640*	2	14	7/0242	0.030	0.76	0.045	1.14	0.375	9.53	29	43	74	110
394650*	3	14	7/0242	0.030	0.76	0.045	1.14	0.395	10.03	42	63	95	141
394660*	4	14	7/0242	0.030	0.76	0.045	1.14	0.430	10.92	55	82	118	176
394670*	5	14	7/0242	0.030	0.76	0.045	1.14	0.470	11.94	68	101	142	211
394680*	7	14	7/0242	0.030	0.76	0.045	1.14	0.510	12.95	94	140	176	262
394690*	9	14	7/0242	0.030	0.76	0.060	1.52	0.625	15.88	121	180	243	362
394700*	12	14	7/0242	0.030	0.76	0.060	1.52	0.705	17.91	160	238	304	452
394710*	19	14	7/0242	0.030	0.76	0.060	1.52	0.820	20.83	252	375	471	701
394720*	25	14	7/0242	0.030	0.76	0.080	2.03	0.940	25.53	325	484	627	933
394730*	30	14	7/0242	0.030	0.76	0.080	2.03	1.035	26.29	389	579	750	1116
394740*	37	14	7/0242	0.030	0.76	0.080	2.03	1.115	28.32	468	696	878	1307

OVERALL SHIELDED MULTI-CONDUCTORS 12 AWG CONDUCTORS

394750*	2	12	7/0305	0.030	0.76	0.045	1.14	0.415	10.45	43	64	97	144
394760*	3	12	7/0305	0.030	0.76	0.045	1.14	0.440	11.18	66	98	127	189
394770*	4	12	7/0305	0.030	0.76	0.045	1.14	0.480	12.19	87	129	160	238
394780*	5	12	7/0305	0.030	0.76	0.045	1.14	0.525	13.34	108	162	194	289
394790*	7	12	7/0305	0.030	0.76	0.060	1.52	0.600	15.24	151	225	271	403
394800*	9	12	7/0305	0.030	0.76	0.060	1.52	0.700	17.78	193	287	340	506
394810*	12	12	7/0305	0.030	0.76	0.060	1.52	0.770	19.56	249	371	431	641
394820*	19	12	7/0305	0.030	0.76	0.080	2.03	0.945	24.00	393	585	691	1028
394830*	25	12	7/0305	0.030	0.76	0.080	2.03	1.100	27.94	517	769	857	1275
394840*	30	12	7/0305	0.030	0.76	0.080	2.03	1.155	29.80	620	923	1005	1496
394850*	37	12	7/0305	0.030	0.76	0.080	2.03	1.245	31.62	764	1137	1243	1850

OVERALL SHIELDED MULTI-CONDUCTORS 10 AWG CONDUCTORS

394860*	2	10	7/0385	0.030	0.76	0.045	1.14	0.460	11.68	68	101	131	195
394870*	3	10	7/0385	0.030	0.76	0.045	1.14	0.490	12.45	103	155	175	260
394880*	4	10	7/0385	0.030	0.76	0.060	1.52	0.565	14.35	136	202	237	353
394890*	5	10	7/0385	0.030	0.76	0.060	1.52	0.620	15.75	170	253	287	427
394900*	7	10	7/0385	0.030	0.76	0.060	1.52	0.675	17.15	237	353	384	571
394910*	9	10	7/0385	0.030	0.76	0.060	1.52	0.765	19.43	298	443	467	695
394920*	12	10	7/0385	0.030	0.76	0.080	2.03	0.910	23.11	404	601	654	973

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as -ER for Exposed Run applications of 3 or more conductors as defined by the NEC.



GenFree®

XLPE/LSZH, Low-Voltage Power, Unshielded 600 V, UL Type TC-LS-ER—Method 4 Color Code

Product Construction:

Conductor:

- 14 AWG thru 750 kcmil tinned annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant, low-smoke Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- Uninsulated bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Jacket:

- Lead-free, flame-retardant, sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print:

- GENERAL CABLE® (PLANT OF MFG) GENFREE® XX/C XXAWG XLPE/LSZH (UL) TYPE TC-LS-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- E-1 or E-2 Color Code
- Insulated ground conductors
- Overall shielded multi-conductors
- Other constructions available upon request



Applications:

- In free air, raceways, aerial or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with the NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression and impact
- Chemical-resistant
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -30°C
- Low-Smoke, Zero-Halogen jacket is environmentally safe

Features (cont'd.):

- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-LS-ER, UL File # E57179
- UL 1581/UL 2556
- ICEA S-95-658/NEMA WC70
- ICEA T-33-655
- RoHS Compliant

Flame Test Compliances:

- UL 1581/UL 2556
- UL 1685 Vertical Flame Test
- IEEE 1202

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG - 750 kcmil MULTI-CONDUCTORS

394930*	3	14	7/.0242	14	0.030	0.76	0.045	1.14	0.390	9.91	55	82	118	176
394940*	3	12	7/.0305	12	0.030	0.76	0.045	1.14	0.435	11.05	87	129	160	238
394950*	3	10	7/.0385	10	0.030	0.76	0.045	1.14	0.485	12.32	124	184	194	289
14428.030800	3	8	7/.0486	10	0.045	1.14	0.060	1.52	0.655	16.64	190	283	314	467
14428.040800*	4	8	7/.0486	10	0.045	1.14	0.060	1.52	0.720	18.29	242	360	393	585
14428.030600	3	6	7/.0612	8	0.045	1.14	0.060	1.52	0.740	18.80	297	442	456	679
14428.040600*	4	6	7/.0612	8	0.045	1.14	0.060	1.52	0.790	20.07	384	571	561	835
14428.030400	3	4	7/.0772	8	0.045	1.14	0.080	2.03	0.880	22.35	442	658	642	955
14428.040400*	4	4	7/.0772	8	0.045	1.14	0.080	2.03	0.950	24.13	578	861	822	1223
14428.030200	3	2	7/.0974	6	0.045	1.14	0.080	2.03	1.010	25.65	703	1046	979	1457
14428.040200*	4	2	7/.0974	6	0.045	1.14	0.080	2.03	1.090	27.69	919	1368	1235	1838
14428.030100*	3	1	19/.0664	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1021	1594
14428.040100*	4	1	19/.0664	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1521	2264
14428.035100	3	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.225	31.12	1069	1591	1439	2142
14428.045100*	4	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.330	33.78	1413	2103	1820	2709
14428.035200	3	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.300	33.02	1340	1994	1720	2560
14428.045200*	4	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.440	36.58	1760	2619	2208	3286
14428.035300*	3	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2176	3238
14428.045300*	4	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	2788	3405
14428.035400	3	4/0	19/.1055	4	0.055	1.40	0.080	2.03	1.540	39.12	2130	3170	2614	3890
14428.045400*	4	4/0	19/.1055	4	0.055	1.40	0.110	2.79	1.790	45.47	2796	4161	3495	5201
14428.036000*	3	250	37/.0822	4	0.065	1.65	0.110	2.79	1.760	44.70	2494	3712	3184	4738
14428.046000*	4	250	37/.0822	4	0.065	1.65	0.110	2.79	1.915	48.64	3282	4884	4019	5981
14428.036200*	3	350	37/.0973	3	0.065	1.65	0.110	2.79	1.960	49.78	3474	5170	4187	6231
14428.046200*	4	350	37/.0973	3	0.065	1.65	0.110	2.79	2.165	54.99	4577	6811	5436	8090
14428.036500*	3	500	37/.1162	2	0.065	1.65	0.110	2.79	2.245	57.02	4934	7343	5847	8702
14428.046500*	4	500	37/.1162	2	0.065	1.65	0.110	2.79	2.475	62.87	6509	9687	7607	11321
14428.037000*	3	750	61/.1109	1	0.080	2.03	0.140	3.56	2.810	71.37	7278	10831	9145	13610
14428.047000*	4	750	61/.1109	1	0.080	2.03	0.140	3.56	3.115	79.12	9712	14453	11805	17569

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
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600 V – 2 kV Industrial Power Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
5050 [†]	DuraSheath [®] EPR/XL-CPE, Low-Voltage Power, Unshielded 600 V, UL Type RHH/RHW-2/USE-2	Mar. 2012
5100	Unicon [®] FREP [®] FR-EPR, Low-Voltage Power, Unshielded 600 V, UL Type RHH/RHW-2/USE-2	Jan. 2010
5150 [†]	XHHW-2 VW-1 XLPE, Control and Low-Voltage Power 600 V, UL Type SIS/XHHW-2, VW-1 Rated	Jan. 2012
5175 [†]	XHHW-2 CT XLPE, Low-Voltage Power 600 V, UL Type XHHW-2, CT Rated, Single Conductor, Copper	Jan. 2013
5250 [†]	Unicon [®] XLPE XLPE, Low-Voltage Power 600 V, UL Type RHH/RHW-2/USE-2	Jan. 2012
5290 [†]	THHN/THWN-2 PVC, Low-Voltage Power 600 V, Type THHN/THWN-2, Single Conductor, Copper	Jan. 2012
5300	Super Vu-Tron [®] EPR/CPE, Diesel Locomotive Cable 90°C, 2000 V, DLO, UL Type RHH/RHW, 600 V, CSA Type R90, 1000 V	Mar. 2012
5310 [†]	Diesel Locomotive Cable 2000 Volts (EPR/XL-CPE), UL RHH/RHW-2 2000 V and C(UL) RW90 1000 V Flexible, Oil-, Sunlight- and Ozone-Resistant, Flame-Retardant, -40°C to 90°C	May 2012
5350 [†]	GenFree [®] LSZH XLPE, Low-Smoke, Zero-Halogen (LSZH), Low-Voltage Power, Unshielded 600 V, Type RHH/RHW-LS/USE, CSA AWM I A/B, Class B	Nov. 2012
5400	GenFree [®] LSZH XLPE, Low-Smoke, Zero-Halogen (LSZH), Low-Voltage Power, Unshielded 600 V, Type RHH/RHW-LS/USE, CSA AWM I A/B, Class I	Nov. 2012
5700 [†]	RHH/RHW-2 XLPE, Low-Voltage Power, Unshielded 2000 V, UL Type RHH/RHW-2, Single Conductor, Aluminum	Mar. 2012
5800 [†]	SunGen [®] Dual-Layer EPR/XL-CPE, Photovoltaic Wire 600 V, UL Type PV/USE-2/RHH or RHW-2, Single Conductor, Copper	May 2012
5800A	SunGen [®] Dual-Layer EPR/XL-CPE, Photovoltaic Wire 600 V, UL Type PV/USE-2/RHH or RHW-2, Single Conductor, Aluminum	May 2012
5810 [†]	SunGen [®] Dual-Layer EPR/XL-CPE, Photovoltaic Wire 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2, Single Conductor, Copper	May 2012
5810A	SunGen [®] Dual-Layer EPR/XL-CPE, Photovoltaic Wire 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2, Single Conductor, Aluminum	May 2012
5840 [†]	SunGen [®] XLPE, Photovoltaic Wire 600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or CSA RPVU90 1000 V, Single Conductor, Copper	May 2012
5840A	SunGen [®] XLPE, Photovoltaic Wire 600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or CSA RPVU90 1000 V, Single Conductor, Aluminum	May 2012

[†]Indicates these products are stocked by General Cable

600 V – 2 kV Industrial Power Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
5845[†] SunGen [®] IC	XLPE, Photovoltaic Wire 600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or CSA RPVU90 1000 V, Single Conductor, Copper	Feb. 2012
5850[†] SunGen [®]	XLPE, Photovoltaic Wire 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 or CSA RPVU90 1000 V, Single Conductor, Copper	Feb. 2012
5850A SunGen [®]	XLPE, Photovoltaic Wire 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 or c(UL) RWU90 1000 V, Single Conductor, Aluminum	Nov. 2011
5855[†] SunGen [®] IC	XLPE, Photovoltaic Wire 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 or CSA RPVU90 1000 V, Single Conductor, Copper	Feb. 2012
5880[†] SunGen [®] MI	XLPE/PVC, AC Micro-Inverter Cable 600 V, UL Type TC-ER	Apr. 2011
5890[†] SunGen [®] MI-LS	XLPO/LSZH, AC Micro-Inverter Cable 600 V, UL Type TC-LS-ER	Apr. 2011

[†]Indicates these products are stocked by General Cable

DuraSheath®

EPR/XL-CPE, Low-Voltage Power, Unshielded 600 V, UL Type RHH/RHW-2/USE-2

Product Construction:

Conductor:

- 14 AWG thru 1000 kcmil tin-coated copper compressed Class B stranding per ASTM B33 and B8

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) colored to contrast with jacket

Jacket:

- Lead-free Cross-linked Chlorinated Polyethylene (XL-CPE), black

Print:

For 1 AWG and smaller:

- GENERAL CABLE® MI DURASHEATH® TYPE USE-2 OR RHH OR RHW-2 VW-1 (AWG SIZE) (MM SIZE) EP 600 VOLTS SUN RES (UL) ROHS MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

For 1/0 AWG and larger:

- GENERAL CABLE® MI DURASHEATH® LL TYPE USE-2 OR RHH OR RHW-2 VW-1 (AWG SIZE) (MM SIZE) EP 600 VOLTS SUN RES FOR CT USE (UL) ROHS MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Colored jackets available upon request
- 2000 V rated cables



Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is a major concern and where maximum performance will be demanded
- In free air, raceways or direct burial
- For use in aerial, conduit, open tray and underground duct/installations

Features:

- Rated at 90°C wet or dry
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Excellent flexibility at low temperatures; suitable for installation in sub-zero conditions
- Extra-tough, mechanically rugged composite insulation and jacket construction
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets UL 44 cold bend test at -40°C

Compliances:

Industry Compliances:

- National Electric Code (NEC)
- ICEA S-95-658/NEMA WC70
- "FOR CT USE" on 1/0 AWG and larger in accordance with the NEC
- UL 44 Type RHH/RHW-2, UL File # E90494
- UL 854 Type USE-2, UL File # E90499

Flame Test Compliances:

- UL 1581 VW-1
- IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. DIAMETER		MINIMUM AVG. INSULATION				MINIMUM AVG. JACKET				COPPER WEIGHT		NET WEIGHT	
					THICKNESS		DIAMETER		THICKNESS		DIAMETER		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm		
14 AWG - 1000 kcmil CONDUCTORS																
14511.411400	14	7/.0242	0.07	1.78	0.030	0.76	0.14	3.56	0.015	0.38	0.17	4.32	13	19	24	36
14511.411200	12	7/.0305	0.09	2.29	0.030	0.76	0.16	4.06	0.015	0.38	0.19	4.83	20	30	33	49
14511.411000	10	7/.0385	0.12	3.05	0.030	0.76	0.18	4.57	0.015	0.38	0.21	5.33	32	48	48	71
14511.410800	8	7/.0486	0.15	3.81	0.045	1.14	0.24	6.10	0.015	0.38	0.28	7.11	50	75	77	115
14511.410600	6	7/.0612	0.18	4.57	0.045	1.14	0.28	7.11	0.030	0.76	0.35	8.89	81	121	122	182
14511.410400	4	7/.0772	0.23	5.84	0.045	1.14	0.33	8.38	0.030	0.76	0.39	9.91	129	192	178	265
14511.710200	2	7/.0974	0.29	7.37	0.045	1.14	0.39	9.91	0.030	0.76	0.46	11.68	205	305	265	394
14511.715100	1/0	19/.0740	0.37	9.40	0.055	1.40	0.48	12.19	0.045	1.14	0.58	14.73	326	485	422	628
14511.715200	2/0	19/.0837	0.41	10.41	0.055	1.40	0.53	13.46	0.045	1.14	0.63	16.00	411	612	518	771
14511.715400	4/0	19/.1055	0.52	13.21	0.055	1.40	0.64	16.26	0.045	1.14	0.74	18.80	653	972	785	1168
14511.716000	250	37/.0822	0.56	14.22	0.065	1.65	0.70	17.78	0.065	1.65	0.85	21.59	772	1149	960	1429
14511.716200	350	37/.0973	0.67	17.02	0.065	1.65	0.81	20.57	0.065	1.65	0.96	24.38	1081	1609	1299	1933
14511.716500	500	37/.1162	0.80	20.32	0.065	1.65	0.94	23.88	0.065	1.65	1.09	27.69	1542	2295	1803	2683
14511.717000	750	61/.1109	0.98	24.89	0.080	2.03	1.15	29.21	0.065	1.65	1.31	33.27	2316	3447	2664	3965
14511.717500	1000	61/.1280	1.13	28.70	0.080	2.03	1.31	33.27	0.065	1.65	1.46	37.08	3086	4593	3989	5936

Dimensions and weights are nominal; subject to industry tolerances.



Phone: 888-593-3355
www.generalcable.com

Unicon® FREP®

FR-EPR, Low-Voltage Power, Unshielded
600 V, UL Type RHH/RHW-2/USE-2

Product Construction:

Conductor:

- 14 AWG thru 1000 kcmil stranded annealed bare copper compressed Class B stranding per ASTM B8

Insulation:

- Flame-retardant Ethylene Propylene Rubber (EPR)

Print:

- GENERAL CABLE® (PLANT OF MFG) UNICON® FREP® TYPE USE-2 OR RHH OR RHW-2 VW-1 SIZE (AWG OR KCMIL) 600 VOLTS SUN RES FOR CT USE (UL) DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE"

Options:

- 2 kV version
- Tinned copper conductor
- Class C stranding
- Unicon® XLPE—flame-retardant Cross-linked Polyethylene (XLPE) insulation
- Other constructions available upon request



Applications:

- Ideally suited for use in broad range of commercial, industrial and utility applications where reliability is the major concern, where maximum performance will be demanded and where space is limited
- In free air, raceways or direct burial in accordance with NEC

Features:

- Rated at 90°C wet or dry
- Smaller cable diameter
- Excellent electrical, thermal and physical properties
- Excellent resistance to moisture
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- National Electrical Code (NEC)
- UL 44 Type RHH/RHW-2, UL File # E90494
- UL 854 Type USE-2, UL File # E90499
- ICEA S-95-658/NEMA WC70
- "FOR CT USE" on 1/0 AWG and larger in accordance with NEC
- UL Listed VW-1

Flame Test Compliances:

- UL 1581 VW-1
- For 1/0 AWG and larger: IEEE 383, IEEE 1202/CSA FT4, ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. DIAMETER		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
14 AWG - 1000 kcmil CONDUCTORS												
14101.211400*	14	7/.0242	0.07	1.78	0.045	1.14	0.17	4.32	13	19	24	36
14101.211200*	12	7/.0305	0.09	2.29	0.045	1.14	0.19	4.83	20	30	33	49
14101.211000*	10	7/.0385	0.12	3.05	0.045	1.14	0.21	5.33	32	48	48	71
14101.210800*	8	7/.0486	0.15	3.81	0.060	1.52	0.27	6.86	50	75	78	116
14101.210600*	6	7/.0612	0.18	4.57	0.060	1.52	0.31	7.87	81	121	114	170
14101.210400*	4	7/.0772	0.23	5.84	0.060	1.52	0.36	9.14	129	192	169	252
14101.210200*	2	7/.0974	0.29	7.37	0.060	1.52	0.42	10.67	205	305	254	378
14101.215100*	1/0	19/.0740	0.37	9.40	0.080	2.03	0.53	13.46	326	485	402	598
14101.215200*	2/0	19/.0837	0.41	10.41	0.080	2.03	0.58	14.73	411	612	500	744
14101.215400*	4/0	19/.1055	0.52	13.21	0.080	2.03	0.69	17.53	653	972	759	1130
14101.216000*	250	37/.0822	0.56	14.22	0.095	2.41	0.77	19.56	772	1149	905	1347
14101.216200*	350	37/.0973	0.67	17.02	0.095	2.41	0.87	22.10	1081	1609	1235	1838
14101.216500*	500	37/.1162	0.80	20.32	0.095	2.41	1.00	25.40	1542	2295	1728	2572
14101.217000*	750	61/.1109	0.98	24.89	0.110	2.79	1.22	30.99	2316	3447	2573	3829
14101.217500*	1000	61/.1280	1.13	28.70	0.110	2.79	1.37	34.80	3086	4593	3402	5063

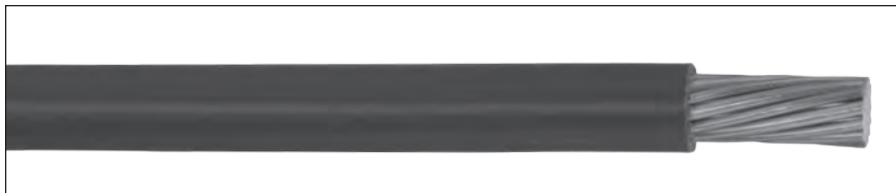
Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

XHHW-2 VW-1

XLPE, Control and Low-Voltage Power, 600 V

UL Type SIS/XHHW-2, VW-1 Rated, Single Conductor, Copper



Features (cont'd.):

- Excellent flame resistance
- Sunlight-resistant
- Excellent physical, thermal and electrical properties

Compliances:

Industry Compliances:

- UL Type SIS/XHHW-2^y – 600 V
- UL File # E90494
- UL Type XHHW-2^{yy} – 600 V
- ICEA S-95-658/NEMA WC70
- 1/0 and larger are listed "Sun Res FOR CT USE" in accordance with NEC

Flame Test Compliances:

- UL 44 VW-1

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material to be shipped on spools or non-returnable wood reels

^yUL Type SIS/XHHW-2 for sizes 14 AWG thru 4 AWG

^{yy}UL Type XHHW-2 for sizes 2 AWG thru 1000 kcmil

Product Construction:

Conductor:

- 18 AWG thru 1000 kcmil tinned, annealed copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)

Print:

For 18 AWG and 16 AWG:

- GENERAL CABLE® (PLANT OF MFG) 1C XXAWG COPPER XLPE SIS TYPE 600V 90C YEAR OF MFG

For 14 AWG thru 4 AWG:

- GENERAL CABLE® (PLANT OF MFG) 1C XXAWG COPPER XLPE TYPE SIS/XHHW-2 VW-1 (UL) 600V 90C YEAR OF MFG

Print (cont'd.):

For 2 AWG and larger:

- GENERAL CABLE® (PLANT OF MFG) 1C XXAWG COPPER XLPE TYPE XHHW-2 VW-1 SUN RES FOR CT USE (UL) YEAR OF MFG SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE"

Applications:

- For use in power and control circuits in switchboards, control panels and raceways in applications not exceeding 600 volts
- Acceptable for use in OSHA regulated installations

Features:

- Rated at 90°C wet or dry
- UL Listed as SIS/XHHW-2^y and XHHW-2^{yy} for general power or control wiring in accordance with the National Electrical Code, Section 310.15, Tables 310.15(B)16 or 310.15(B)17
- Sizes 1/0 and larger for CT use

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. DIAMETER		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY (1)		
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	60°C	75°C	90°C
18 AWG - 1000 kcmil CONDUCTORS															
381500	18	7/.0152	0.05	1.27	0.030	0.76	0.11	2.74	5	8	9	14	—	—	—
381510	16	7/.0192	0.06	1.47	0.030	0.76	0.12	3.05	8	12	13	20	—	—	—
381520	14	7/.0242	0.07	1.80	0.030	0.76	0.13	3.38	13	19	19	28	15	15	15
381530	12	7/.0305	0.09	2.29	0.030	0.76	0.15	3.86	20	30	27	41	20	20	20
381540	10	7/.0385	0.11	2.87	0.030	0.76	0.18	4.45	32	48	41	61	30	30	30
381550	8	7/.0486	0.14	3.56	0.045	1.14	0.24	6.05	51	76	69	102	40	50	55
381560	6	7/.0612	0.18	4.57	0.045	1.14	0.28	6.99	81	121	103	153	55	65	75
381570	4	7/.0772	0.23	5.84	0.045	1.14	0.32	8.18	129	192	156	232	70	85	95
06591.210200	2	7/.0974	0.29	7.37	0.045	1.14	0.38	9.68	205	305	239	355	95	115	130
06591.215100	1/0	19/.0745	0.36	9.14	0.055	1.40	0.48	12.14	326	485	373	556	125	150	170
06591.215200	2/0	19/.0837	0.41	10.41	0.055	1.40	0.52	13.28	411	612	464	691	145	175	195
06591.215300	3/0	19/.0940	0.46	11.68	0.055	1.40	0.57	14.55	518	771	579	862	165	200	225
06591.215400	4/0	19/.1055	0.51	12.95	0.055	1.40	0.63	15.98	653	972	722	1075	195	230	260
06591.216000	250	37/.0822	0.56	14.22	0.065	1.65	0.70	17.75	772	1149	860	1280	215	255	290
06591.216200	350	37/.0973	0.66	16.76	0.065	1.65	0.80	20.37	1081	1609	1185	1764	260	310	350
06591.216500	500	37/.1162	0.79	20.07	0.065	1.65	0.93	23.65	1544	2298	1669	2484	320	380	430
06591.217000	750	61/.1109	0.97	24.64	0.080	2.03	1.14	29.03	2316	3447	2520	3750	400	475	535
06591.217500	1000	61/.1280	1.13	28.70	0.080	2.03	1.30	33.02	3086	4593	3283	4886	445	545	615

Dimensions and weights are nominal; subject to industry tolerances.

(1) Allowable ampacities shown are for general use as specified by the National Electric Code, 2011 Edition, section 310.15(B)(16). Adjustments and corrections may apply:

60°C – When terminated to equipment for circuits rated 100 amperes or less or marked for 14 through 1 AWG conductors.

75°C – When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.

90°C – Wet or dry locations. For ampacity derating purposes.

Dwelling – For dwelling units, conductors shall be permitted as listed ampacities at 120/240-volt, 3-wire, single-phase services and feeders.



Phone: 888-593-3355
www.generalcable.com



XHHW-2 CT

XLPE, Low-Voltage Power, 600 V
UL Type XHHW-2, CT Rated, Single Conductor, Copper

Product Construction:

Conductor:

- 14 AWG thru 750 kcmil annealed bare copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) AWG/KCMIL LOW FRICTION* TYPE XHHW-2 (UL) 600 V SUN RES FOR CT USE** MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

* Sizes 14 AWG - 10 AWG do not include "LOW FRICTION"

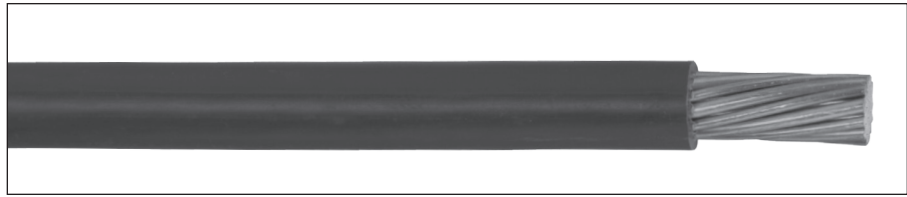
** Sizes smaller than 1/0 AWG do not include "SUN RES FOR CT USE"

Options:

- Tinned copper conductor
- Full colored insulation

Applications:

- General purpose building wire for use primarily in conduit or other recognized raceways as specified in the National Electrical Code
- Industrial environments where superior insulation toughness and chemical resistance are required
- Maximum operating temperature not to exceed 90°C in dry or wet locations
- In free air, raceways or cable trays in accordance with NEC



Features:

- Low Friction for easy pulling on 8 AWG and larger
- "FOR CT USE" on 1/0 AWG and larger
- Sunlight-resistant for 1/0 AWG and larger, all colors
- Rated at 90°C wet or dry
- Smaller cable O.D.
- Excellent electrical, thermal and physical properties
- Excellent resistance to moisture
- Excellent resistance to crush, compression cuts and heat deformation

Compliances:

Industry Compliances:

- National Electric Code (NEC)
- UL 44 Standard for Rubber Insulated Wire and Cable
- ICEA S-95-658/NEMA WC70
- UL Listed as Type XHHW-2, UL File # E90494
- OSHA Acceptable

Flame Test Compliances:

- UL 1685, 1/0 AWG and larger

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. DIAMETER		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY (1)		
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	60°C	75°C	90°C
14 AWG - 750 kcmil CONDUCTORS															
391070	14	7/.0240	0.07	1.80	0.030	0.76	0.13	3.38	12	18	17	25	15	15	15
391080	12	7/.0305	0.09	2.26	0.030	0.76	0.15	3.84	20	30	26	39	20	20	20
391090	10	7/.0385	0.11	2.87	0.030	0.76	0.18	4.57	32	48	38	57	30	30	30
5175.008	8	7/.0486	0.14	3.56	0.045	1.14	0.24	6.10	51	76	65	97	40	50	55
5175.006	6	7/.0612	0.18	4.57	0.045	1.14	0.28	7.11	81	121	99	147	55	65	75
5175.004	4	7/.0772	0.23	5.84	0.045	1.14	0.33	8.38	129	192	152	226	70	85	95
5175.002	2	7/.0974	0.29	7.37	0.045	1.14	0.39	9.91	205	305	233	347	95	115	130
5175.001	1	19/.0664	0.32	8.13	0.055	1.40	0.44	11.18	256	381	293	437	110	130	145
5175.110	1/0	19/.0740	0.36	9.14	0.055	1.40	0.48	12.19	326	485	364	572	125	150	170
5175.210	2/0	19/.0837	0.41	10.41	0.055	1.40	0.53	13.46	411	612	453	674	145	175	195
5175.310	3/0	19/.0940	0.46	11.68	0.055	1.40	0.58	14.73	518	772	565	842	165	200	225
5175.410	4/0	19/.1055	0.51	12.95	0.055	1.40	0.63	16.00	653	972	706	1051	195	230	260
5175.250	250	37/.0822	0.56	14.22	0.065	1.65	0.70	17.78	722	1074	837	1246	215	255	290
5175.350	350	37/.0973	0.66	16.76	0.065	1.65	0.80	20.32	1081	1609	1157	1722	260	310	350
5175.500	500	37/.1162	0.79	20.07	0.065	1.65	0.93	23.62	1544	2298	1634	2432	320	380	430
5175.600	600	37/.1109	0.87	22.10	0.080	2.03	1.04	26.42	1853	2758	1972	2935	350	420	475
5175.750	750	61/.1280	0.98	24.89	0.080	2.03	1.15	29.21	2316	3447	2448	3643	400	475	535

Dimensions and weights are nominal; subject to industry tolerances.

(1) Allowable ampacities shown are for general use as specified by the National Electric Code, 2011 Edition, section 310.15(B)(16). Adjustments and corrections may apply:

60°C – When terminated to equipment for circuits rated 100 amperes or less or marked for 14 through 1 AWG conductors.

75°C – When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.

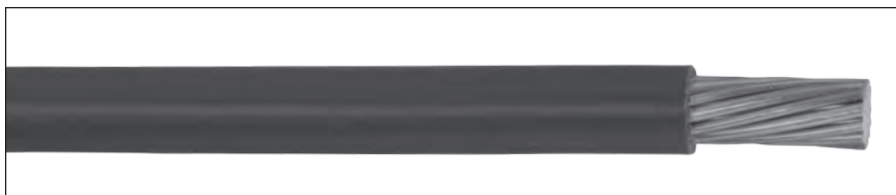
90°C – Wet or dry locations. For ampacity derating purposes.

Dwelling – For dwelling units, conductors shall be permitted as listed ampacities at 120/240-volt, 3-wire, single-phase services and feeders.

Unicon® XLPE

XLPE, Low-Voltage Power

600 V, UL Type RHH/RHW-2/USE-2, Single Conductor, Copper



Features (cont'd.):

- Excellent resistance to crush, compression cuts and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- "FOR CT USE" on 1/0 AWG and larger in accordance with NEC
- UL 44 Type RHH/RHW-2, UL File # E90494
- UL 854 Type USE-2, UL File # E90499

Flame Test Compliances:

- UL 1581 VW-1
- For 1/0 AWG and larger: IEEE 383, IEEE 1202/CSA FT4, ICEA T-29-520

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

Product Construction:

Conductor:

- 14 AWG thru 1000 kcmil stranded annealed bare copper compressed class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE), black

Print:

For 14 AWG – 4 AWG:

- GENERAL CABLE® (PLANT OF MFG) UNICON®-XLP TYPE USE-2 OR RHH OR RHW-2 VW-1 SIZE (AWG OR KCMIL) 600 VOLTS SUN RES (UL) DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

For 2 AWG and larger:

- GENERAL CABLE® (PLANT OF MFG) UNICON®-XLP TYPE USE-2 OR RHH OR RHW-2 VW-1 (SIZE) 600 VOLTS SUN RES FOR CT USE (UL) DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE"

Options:

- 2 kV version
- Tinned copper conductor
- Class C stranding
- Various colors available
- Unicon® FREP® – flame-retardant Ethylene Propylene Rubber (EPR) insulation
- Other constructions available upon request

Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is a major concern, where maximum performance will be demanded and where space is limited
- In free air, raceways or direct burial in accordance with NEC

Features:

- Rated at 90°C wet or dry
- Smaller cable O.D.
- Excellent electrical, thermal and physical properties
- Excellent resistance to moisture

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. DIAMETER		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY (1)		
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	60°C	75°C	90°C
14 AWG - 1000 kcmil CONDUCTORS															
364830*	14	7/.0242	0.07	1.78	0.045	1.14	0.17	4.32	13	19	24	36	15	15	15
364840*	12	7/.0305	0.09	2.29	0.045	1.14	0.19	4.83	20	30	33	49	20	20	20
364850*	10	7/.0385	0.12	3.05	0.045	1.14	0.21	5.33	32	48	48	71	30	30	30
16602.210800	8	7/.0486	0.15	3.81	0.060	1.52	0.27	6.86	50	75	78	116	40	50	55
16602.210600	6	7/.0612	0.18	4.57	0.060	1.52	0.31	7.87	81	121	114	170	55	65	75
16602.210400	4	7/.0772	0.23	5.84	0.060	1.52	0.36	9.14	129	192	169	252	70	85	95
16602.210200	2	7/.0974	0.29	7.37	0.060	1.52	0.42	10.67	205	305	254	378	95	115	130
16602.215100	1/0	19/.0740	0.37	9.40	0.080	2.03	0.53	13.46	326	485	403	600	125	150	170
16602.215200	2/0	19/.0837	0.41	10.41	0.080	2.03	0.58	14.73	411	612	501	746	145	175	195
16602.215400	4/0	19/.1055	0.52	13.21	0.080	2.03	0.69	17.53	653	972	760	1131	195	230	260
16602.216000	250	37/.0822	0.56	14.22	0.095	2.41	0.77	19.56	772	1149	906	1349	215	255	290
16602.216200	350	37/.0973	0.67	17.02	0.095	2.41	0.87	22.10	1081	1609	1237	1841	260	310	350
16602.216500	500	37/.1162	0.80	20.32	0.095	2.41	1.00	25.40	1542	2295	1730	2575	320	380	430
16602.217000	750	61/.1109	0.98	24.89	0.110	2.79	1.22	30.99	2316	3447	2576	3834	400	475	535
16602.217500*	1000	61/.1280	1.13	28.70	0.110	2.79	1.37	34.80	3086	4593	3405	5068	445	545	615

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Allowable ampacities shown are for general use as specified by the National Electric Code, 2011 Edition, section 310.15(B)(16). Adjustments and corrections may apply:

60°C – When terminated to equipment for circuits rated 100 amperes or less or marked for 14 through 1 AWG conductors.

75°C – When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.

90°C – Wet or dry locations. For ampacity derating purposes.

Dwelling – For dwelling units, conductors shall be permitted as listed ampacities at 120/240-volt, 3-wire, single-phase services and feeders.



Phone: 888-593-3355
www.generalcable.com



THHN/THWN-2

PVC, Low-Voltage Power

600 V, Type THHN/THWN-2, Single Conductor, Copper

Product Construction:

Conductor:

- 14 AWG thru 750 kcmil bare annealed stranded copper per ASTM B3 and ASTM B8
- 14 AWG thru 10 AWG solid plain copper per ASTM B3

Insulation:

- Color-coded premium-grade flame-retardant, heat- and moisture-resistant Polyvinyl Chloride (PVC)

Jacket:

- Tough Polyamide (Nylon)

Print:

For 14 AWG solid thru 10 AWG solid:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) THHN/THWN (SIZE) AWG (SIZE mm²) GAS AND OIL RES II 600 V VW-1 (UL) E66903 C(UL) T90 NYLON/TWN75 FT1 (-25°C)

For 14 AWG strand thru 10 AWG strand:

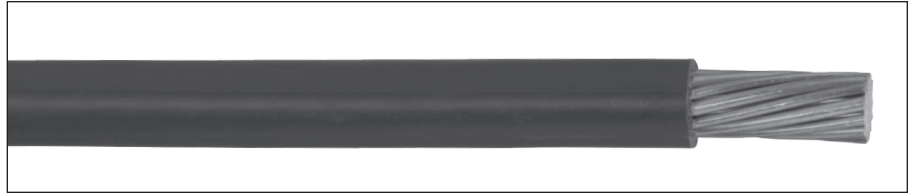
- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) THHN/THWN (SIZE) AWG (SIZE mm²) GAS AND OIL RES II 600 V VW-1 OR AWM (UL) E66903 C(UL) T90 NYLON/TWN75 FT1 (-25°C)

For 8 AWG thru 1 AWG:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) LOW FRICTION THHN/THWN-2 (SIZE) AWG (SIZE mm²) GAS AND OIL RES II 600 V VW-1 OR AWM (UL) E66903 C(UL) T90 NYLON/TWN75 FT1 (-25°C)

For 1/0 and larger, black only:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) LOW FRICTION THHN/THWN-2 (SIZE) AWG (SIZE mm²) GAS AND OIL RES II OR SUN RES FOR CT USE 600 V OR AWM (UL) E66903 C(UL) T90 NYLON/TWN75 FT1 (-25°C)



Print (cont'd.):

For 1/0 and larger, all colors:

- GENERAL CABLE® (PLANT OF MFG) (YEAR OF MFG) LOW FRICTION THHN/THWN-2 (SIZE) AWG (SIZE mm²) CU GAS AND OIL RES II FOR CT USE 600 V OR AWM (UL) E66903 C(UL) T90 NYLON/TWN75 FT1 (-25°C)

Applications:

- General purpose building wire for services, feeders and branch circuits
- Conduit and raceways
- 1/0 and larger for cable tray use

Features:

- Low Friction Nylon jacket provides easy pulling for 8 AWG and larger
- 1/0 AWG and larger are rated for cable tray use
- Rated Gasoline and Oil-Resistant II
- Resistant to abrasion, acids, alkalines, ozone, and water
- For THHN applications, the conductor is appropriate for use in dry locations not to exceed 90°C
- For THWN-2 applications, the conductor is appropriate for wet or dry locations not to exceed 90°C

Features (cont'd.):

- For MTW applications, the conductor is appropriate for use in dry locations at 90°C or not to exceed 60°C in wet locations or where exposed to oil or coolants (with ampacity limited to that for 75°C conductor temperature) as outlined in NFPA79 Electrical Standards for Industrial Machinery
- Sequential foot markings every 2 feet on 8 AWG and larger for easy measuring
- Sunlight-resistant for 1/0 and larger, for black only
- Meets cold bend and cold impact tests at -25°C

Compliances:

Industry Compliances:

- ASTM B3 and B8
- UL Standard 83 – THHN/THWN-2
- UL Standard 1063 for machine tool wire (MTW)
- ICEA S-95-658/NEMA WC70
- NEC® Article 310
- RoHS Compliant
- c(UL) – T90 Nylon

Flame Test Compliances:

- UL 2556 VW-1 rated through 1 AWG
- UL 2556 CT USE 1/0 and larger

Packaging:

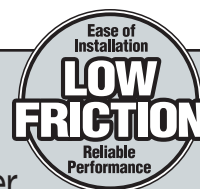
- Cut-to-length services available for 8 AWG and larger

COLOR CODE CHART

COLOR CODE	COLOR	COLOR CODE	COLOR
1	Black	7	Blue
2	White	8	Orange
3	Red	9	Gray
4	Green	A	Purple
5	Yellow	B	Pink
6	Brown		

PACKAGING CODE CHART

PACKAGING CODE	PACKAGE
10	2x500'
20	4x500'
32	500' Reel
33	1000' Reel
54	2000' Reel
34	2500' Reel
55	5000' Reel
00	Cut to order
XX	Master Reel



THHN/THWN-2

PVC, Low-Voltage Power

600 V, Type THHN/THWN-2, Single Conductor, Copper

CATALOG NUMBER	SIZE		NO. OF WIRES	INS. THKN.		JACKET THKN.		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY (1)			PACKAGING PUT-UP CODE
	AWG OR kcmil	mm ²		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	60°C	75°C	90°C	

TYPE THHN 90°C DRY LOCATIONS/THWN 75°C WET LOCATIONS

23014	14	2.08	1	0.015	0.38	0.004	0.10	0.101	2.57	12	18	15	22	15	15	15	20, 34
23012	12	3.31	1	0.015	0.38	0.004	0.10	0.120	3.05	20	29	23	34	20	20	20	20, 34
23010	10	5.26	1	0.020	0.51	0.004	0.10	0.149	3.78	31	47	37	55	20	20	30	10, 34
24014	14	2.08	19	0.015	0.38	0.004	0.10	0.109	2.77	13	19	16	25	15	15	15	20, 34
24012	12	3.31	19	0.015	0.38	0.004	0.10	0.127	3.23	20	30	23	36	20	20	20	20, 34
24010	10	5.26	19	0.020	0.51	0.004	0.10	0.160	4.07	32	48	38	57	30	30	30	10, 34

TYPE THHN/THWN-2 90°C WET OR DRY LOCATIONS

25008	8	8.37	19	0.030	0.76	0.005	0.13	0.212	5.39	51	76	62	94	40	50	55	32, 33, XX, 00
25006	6	13.3	19	0.030	0.76	0.005	0.13	0.248	6.30	81	121	94	141	55	65	75	32, 33, XX, 00
25004	4	21.2	19	0.040	1.02	0.006	0.15	0.317	8.06	129	192	153	228	70	85	95	32, 55, XX, 00
25003	3	26.7	19	0.040	1.02	0.006	0.15	0.344	8.74	163	242	189	281	85	100	115	32, 55, XX, 00
25002	2	33.6	19	0.040	1.02	0.006	0.15	0.375	9.53	205	305	233	348	95	115	130	55, XX, 00
25001	1	42.4	19	0.050	1.27	0.007	0.18	0.435	11.05	258	385	298	445	110	130	145	55, XX, 00
26110	1/0	53.5	19	0.050	1.27	0.007	0.18	0.474	12.04	326	485	372	554	125	150	170	55, XX, 00
26210	2/0	67.4	19	0.050	1.27	0.007	0.18	0.518	13.16	411	611	462	687	145	175	195	55, XX, 00
26310	3/0	85	19	0.050	1.27	0.007	0.18	0.568	14.43	518	771	572	851	165	200	225	55, XX, 00
26410	4/0	107	19	0.050	1.27	0.007	0.18	0.624	15.85	653	972	712	1059	195	230	260	55, XX, 00
27250	250	124	37	0.060	1.52	0.008	0.20	0.678	17.23	772	1149	849	1266	215	255	290	55, XX, 00
27300	300	152	37	0.060	1.52	0.008	0.20	0.730	18.54	926	1378	1010	1503	240	285	320	34, XX, 00
27350	350	177	37	0.060	1.52	0.008	0.20	0.777	19.74	1081	1609	1170	1741	260	320	350	34, XX, 00
27400	400	203	37	0.060	1.52	0.008	0.20	0.821	20.85	1235	1838	1330	1979	280	335	380	34, XX, 00
27500	500	253	37	0.060	1.52	0.008	0.20	0.902	22.91	1544	2298	1650	2455	320	380	430	34, XX, 00
27600	600	304	61	0.070	1.78	0.009	0.23	1.051	26.70	1853	2758	2019	3004	350	420	475	54, XX, 00
27750	750	380	61	0.070	1.78	0.009	0.23	1.156	29.36	2316	3447	2466	3670	400	475	535	54, XX, 00

Dimensions and weights are nominal; subject to industry tolerances.

(1) Allowable ampacities shown are for general use as specified by the National Electric Code, 2011 Edition, section 310.15(B)(16). Adjustments and corrections may apply:

60°C – When terminated to equipment for circuits rated 100 amperes or less or marked for 14 through 1 AWG conductors.

75°C – When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.

90°C – Wet or dry locations. For ampacity derating purposes.

Dwelling – For dwelling units, conductors shall be permitted as listed ampacities at 120/240-volt, 3-wire, single-phase services and feeders.



Phone: 888-593-3355
www.generalcable.com

Super Vu-Tron®

EPR/CPE, Diesel Locomotive Cable

90°C, 2000 V, DLO, UL Type RHH/RHW, 600 V, CSA Type R90, 1000 V

Product Construction:

Conductor:

- 14 AWG through 1111.1 kcmil stranded tinned annealed copper per AAR 589

Insulation:

- Premium-grade 90°C EP

Jacket:

- Chlorinated Polyethylene (CPE), black

Jacket Marking:

- SIZES 14 THROUGH 1 AWG - CAROL SUPER VU-TRON® (SIZE) (STRANDING) 90°C DLO 2000 VOLTS P-7K-123040 MSHA CSA R90 1000 V (UL) RHH or RHW 600 VOLTS
- SIZES 1/0 THROUGH 646.4 - CAROL SUPER VU-TRON® (SIZE) 90°C DLO 2000 VOLTS P-7K-123040 MSHA CSA R90 1000 V (-40°C) FT-1 (UL) RHH or RHW 600 VOLTS SUNLIGHT RESISTANT FOR CT USE
NOTE: 535.3 AND 646.4 kcmil printed (UL) RHH OR RHW 2000 VOLTS
- SIZES 777.7 THROUGH 1111.1 kcmil - CAROL SUPER VU-TRON® C(UL) TYPE RHW-2 2 kV VW-1 FOR CT USE TYPE DLO 2000 V 90°C P-102 MSHA

Applications:

- Diesel electric locomotives
- Telecom power supply
- Mining and earth-moving equipment
- Shipyards
- Motor leads
- Where flexible power leads must be installed in conduit or raceways

Features:

- 90°C temperature rating
- Excellent impact and abrasion resistance
- Resists oils, acids, alkalis, heat, flame
- Flexible tinned copper stranding
- FT4 upon request
- Sunlight-resistant

Industry Approvals:

- UL Type RHH/RHW, UL File # E90494
- Accepted for listing as flame-resistant by MSHA
- CSA R90
- RoHS Compliant

Packaging:

- Lengths cut to order



CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOM. INS. THICKNESS		NOMINAL O.D.		CURRENT AMPS		APPROX. NET WEIGHT LBS/MFT ⁽⁵⁾
			INCHES	mm	INCHES	mm	(1)	(2)	

14 AWG - 1111.1 kcmil DLO - 2000 VOLT

81914*	14	19/0.0147	0.045	1.14	0.21	5.44	25	35	34
81912*	12	19/0.0185	0.047	1.19	0.24	6.10	30	40	45
81910*	10	27/24	0.045	1.14	0.26	6.60	40	55	60
81908*	8	37/24	0.060	1.52	0.34	8.64	55	80	95
81906*	6	61/24	0.060	1.52	0.40	10.16	75	105	145
81904*	4	105/24	0.060	1.52	0.46	11.68	95	140	205
81902*	2	154/24	0.060	1.52	0.52	13.21	130	190	295
81901*	1	224/24	0.080	2.03	0.65	16.51	150	220	440
81911*	1/0	280/24	0.080	2.03	0.69	17.53	170	260	515
81920*	2/0	329/24	0.080	2.03	0.73	18.54	195	300	580
81930*	3/0	456/24	0.080	2.03	0.81	20.57	225	350	770
81940*	4/0	551/24	0.080	2.03	0.87	22.10	260	405	930
81926*	262.6	650/24	0.095	2.41	1.00	25.40	296	467	1130
81931*	313.3	777/24	0.095	2.41	1.06	26.92	326	522	1295
81937*	373.7	925/24	0.095	2.41	1.10	27.94	362	591	1545
81944*	444.4	1110/24	0.095	2.41	1.23	31.24	400	652	1820
81953*	535.3	1332/24	0.120	3.05	1.34	34.04	445	728	2195
81964*	646.4	1609/24	0.120	3.05	1.45	36.83	493	815	2560
81977*	777.7	1924/24	0.120	3.05	1.50	38.10	546	904	3050
81929*	929.2	2299/24	0.120	3.05	1.67	42.42	602	1014	3625
81999*	1111.1	2745/24	0.140	3.56	1.84	46.74	635	1115	4354

Dimensions and weights are nominal; subject to industry tolerances.

⁽¹⁾ Ampacities based on 90°C conductor and 30°C ambient temperature based on the National Electrical Code® for not more than three current-carrying conductors in raceway, cable or earth.

⁽²⁾ Ampacities based on single conductor in free air, 90°C conductor temperature and an ambient air temperature of 30°C, in accordance with National Electrical Code® (NEC).

⁽⁵⁾ Actual shipping weight may vary.

* Non-stock item

Diesel Locomotive Cable 2000 Volts (EPR/XL-CPE)

UL RHH/RHW-2 2000 V and C(UL) RW90 1000 V

Flexible, Oil-, Sunlight- and Ozone-Resistant, Flame-Retardant, -40°C to 90°C



Minimum Bend Radius:

- 8X O.D. for fixed installations or mobile applications

Torsion Requirements:

- +/-180° twists per meter for 5,000 cycles at -40°C with cable weight compensated to 18 meters

Compliances:

Industry Compliances:

- Type RHH/RHW-2 per UL 44, UL File # E90494
 - c(UL)US Type RW90 per CSA C.22.2-38, UL File # E90494
 - National Electrical Code (NEC)
 - ICEA S-95-658/NEMA WC70
 - "For CT Use" on 1/0 AWG and larger in accordance with NEC®
 - Accepted for listing as flame resistant by MSHA
 - RoHS Compliant
- Flame Test Compliances:**
- UL 2556 VW-1
 - IEEE 1202/CSA FT4 for sizes 1/0 AWG and larger

Product Construction:

Conductor:

- 14 AWG (2.08 mm) thru 1111.1 kcmil (562 mm) Class I fully annealed flexible stranded tin coated copper per AAR 589

Insulation:

- Flame-retardant, lead-free cross-linked Ethylene Propylene (EP) with separator tape over the conductor to facilitate stripping

Jacket:

- Black, flame-retardant, sunlight-, ozone- and oil-resistant, lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (MFG LOCATION) DIESEL LOCOMOTIVE 2000 V P-07-KA120005-MSHA C(UL)US TYPE RHH OR RHW-2 VW-1 (SIZE) AWG/kcmil (MM²) EP FOR CT USE* SR -40°C FT4 OR RW90 EP 1000 V ROHS MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

*Applicable for sizes 1/0 AWG and larger only

Options:

- Fully annealed, flexible bare copper stranding per AAR 589
- Other jacket colors available upon request

Applications:

- For use up to 2000 V as power cables in wind turbine generator applications per UL Subject 6140
- Diesel electric locomotives
- Mining and earth-moving equipment
- General purpose use as flexible power leads
- Flexible power leads in cable trays in sizes 1/0 AWG and larger
- Accepted for listing as flame-resistant by MSHA

Features:

- Rated 90°C wet or dry per UL 44/CSA C.22.2-38
- Flexible tinned copper stranding
- Excellent resistance to oils, gear lubricants, ozone, sunlight, heat and flame
- Designed to withstand continuous flexing

AC Withstand Voltage Testing requirements per UL 44:

14 - 10 AWG	6000 V
8 - 2 AWG	7500 V
1 - 4/0 AWG	9000 V
262.6 kcmil - 444 kcmil	10000 V
535.3 kcmil - 929.9 kcmil	11000 V
1111.1 kcmil	13500 V

CATALOG NUMBER	COND. SIZE		COND. STRAND	NOMINAL COND. O.D.		NOM. INS. THICKNESS		JACKET THICKNESS		NOMINAL O.D.		APPROX. NET WEIGHT	
	AWG/kcmil	mm ²		INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km
5310.01014	14	2.08	19/.0147	0.070	1.8	0.045	1.1	0.015	0.4	0.20	5.1	30	45
5310.01012	12	3.31	19/.0185	0.088	2.2	0.045	1.1	0.015	0.4	0.22	5.6	39	58
5310.01010	10	5.26	27/24	0.117	3.0	0.045	1.1	0.015	0.4	0.25	6.4	56	83
5310.01008	8	8.36	37/24	0.144	3.7	0.055	1.4	0.030	0.8	0.33	8.3	87	129
5310.01006	6	13.3	61/24	0.190	4.8	0.060	1.5	0.030	0.8	0.38	9.7	131	195
5310.01004	4	21.1	105/24	0.262	6.7	0.060	1.5	0.030	0.8	0.46	11.7	202	301
5310.01002	2	33.6	158/24	0.315	8.0	0.060	1.5	0.030	0.8	0.51	13.0	285	424
5310.01001	1	42.4	224/24	0.375	9.5	0.080	2.0	0.045	1.1	0.64	16.3	417	621
5310.01110	1/0	53.5	280/24	0.435	11.0	0.080	2.0	0.045	1.1	0.70	17.8	494	735
5310.01210	2/0	67.4	329/24	0.465	11.8	0.080	2.0	0.045	1.1	0.73	18.5	587	874
5310.01310	3/0	85	456/24	0.535	13.6	0.080	2.0	0.045	1.1	0.80	20.3	718	1069
5310.01410	4/0	107	551/24	0.581	14.8	0.080	2.0	0.045	1.1	0.84	21.3	845	1258
5310.01262	262.6	133	650/24	0.617	15.7	0.090	2.3	0.065	1.7	0.94	23.9	1050	1563
5310.01313	313.3	158	777/24	0.671	17.0	0.090	2.3	0.065	1.7	1.00	25.3	1195	1778
5310.01373	373.7	189	925/24	0.735	18.7	0.090	2.3	0.065	1.7	1.06	26.9	1384	2060
5310.01444	444.4	225	1110/24	0.786	20.0	0.090	2.3	0.065	1.7	1.11	28.2	1634	2432
5310.01535	535.3	271	1332/24	0.877	22.3	0.090	2.3	0.065	1.7	1.20	30.5	1925	2865
5310.01646	646.4	327	1609/24	0.960	24.4	0.090	2.3	0.065	1.7	1.29	32.8	2307	3433
5310.01777	777.7	394	1924/24	1.054	26.8	0.090	2.3	0.065	1.7	1.38	35.1	2728	4060
5310.01929*	929.9	475	2318/24	1.230	31.2	0.090	2.3	0.065	1.7	1.56	39.6	3570	5313
5310.01111*	1111.1	562	2745/24	1.328	33.7	0.115	2.9	0.095	2.4	1.77	44.9	4232	6298

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



GenFree® LSZH

XLPE, Low-Smoke, Zero-Halogen (LSZH), Low-Voltage Power, Unshielded
600 V, Type RHH/RHW-LS/USE, CSA AWM I A/B, Class B

Product Construction:

Conductor:

- 14 AWG thru 750 kcmil bare compressed copper per ASTM B3. Class B stranding per ASTM B8

Composite Insulation/Jacket:

- Flame-retardant, oil-resistant, limited smoke
Cross-linked Polyethylene (XLPE), black

Print:

- GENERAL CABLE® GENFREE® LSZH (PLANT OF MFG) (UL) TYPE USE OR RHH OR RHW-ST1 VW-1 (SIZE) 600 V OIL RES I SUN RES FOR CT USE*/CSA AWM I A/B 105°C 600 V FT4 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE"

Options:

- Available in blue, green, red and gray
- Tinned copper conductors

Applications:

- General purpose 600 V Power Cable Applications
- RHH/RHW ratings for installation in conduit or raceway
- USE rating for direct burial applications
- CT rated for installation in Cable Tray – 1/0 AWG and larger
- For use in all closed environments or populated spaces such as auditoriums, arenas and health facilities where more stringent specifications for smoke and toxicity emission levels are desired



Applications (cont'd.):

- Ideally suited for use in a broad range of commercial and Industrial applications where reliability is the major concern, where maximum performance is demanded and where space is limited

Features:

- UL Type RHH/RHW/USE Rated at 90°C dry, 75°C wet, UL File # E90494 and E90499
- CSA AWM I A/B Rated at 105°C
- UL AWM styles 3237 and 3578
- Smooth surface for reduced coefficient of friction for ease of installation
- Excellent moisture resistance
- Excellent resistance to salt water
- Available in colors for ease of phase identification
- Minimum acid gas emissions under combustion
- Meets cold bend test at -40°C
- Meets UL Oil Res. I and II

Compliances:

- UL 44 Standard for Rubber Insulated Wire
- UL 758 Standard for Appliance Wiring Material
- UL 854 Standard for Service Entrance Cable
- UL 1685 Standard for Vertical Tray Fire Propagation and Smoke Release Test for Electrical and Optical Fiber Cables
- Telcordia GR347 Core
- UL Listed VW-1
- ICEA S-95-658/NEMA WC70
- ICEA T-33-655
- IEEE 1202 (70,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- Sizes 1/0 AWG and larger are listed "FOR CT USE"
- CSA FT4
- CSA Standard C22.2 No. 0.3
- CSA Standard C22.2 No. 210.2
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND (CLASS B)	NOMINAL COND. DIAMETER		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
14 AWG - 750 kcmil CONDUCTORS, CLASS B												
14311.011400	14	7/.0242	0.07	1.78	0.045	1.14	0.17	4.32	13	19	18	27
14311.011200	12	7/.0305	0.09	2.29	0.045	1.14	0.19	4.83	20	30	25	37
14311.011000	10	7/.0385	0.12	3.05	0.045	1.14	0.22	5.59	32	48	38	57
14311.010800	8	7/.0486	0.15	3.81	0.060	1.52	0.28	7.11	50	75	58	86
14311.010600	6	7/.0612	0.18	4.57	0.060	1.52	0.31	7.87	81	121	116	173
14311.010400	4	7/.0772	0.23	5.84	0.060	1.52	0.36	9.14	129	192	171	254
14311.010200	2	7/.0974	0.28	7.11	0.060	1.52	0.42	10.67	205	305	257	382
14311.010100	1	19/.0644	0.32	8.13	0.080	2.03	0.49	12.45	258	385	331	493
14311.015100	1/0	19/.0745	0.36	9.14	0.080	2.03	0.53	13.46	326	485	406	604
14311.015200	2/0	19/.0837	0.41	10.41	0.080	2.03	0.58	14.73	411	612	495	737
14311.015300	3/0	19/.0940	0.46	11.68	0.080	2.03	0.63	16.00	518	771	612	911
14311.015400	4/0	19/.1055	0.51	12.95	0.080	2.03	0.68	17.27	653	972	757	1126
14311.016000	250	37/.0822	0.56	14.22	0.095	2.41	0.76	19.30	772	1149	905	1347
14311.016200	350	37/.0973	0.66	16.76	0.095	2.41	0.87	22.10	1081	1609	1237	1841
14311.016500	500	37/.1162	0.79	20.07	0.095	2.41	1.00	25.40	1544	2298	1728	2571
14311.017000	750	61/.1109	0.97	24.64	0.110	2.79	1.21	30.73	2316	3447	2572	3827

Dimensions and weights are nominal; subject to industry tolerances.

GenFree® LSZH

XLPE, Low-Smoke, Zero-Halogen (LSZH), Low-Voltage Power, Unshielded
600 V, Type RHH/RHW-LS/USE, CSA AWM I A/B, Class I¹



Features (cont'd.):

- Smooth surface for reduced coefficient of friction for ease of installation
- Excellent moisture resistance
- Excellent resistance to salt water
- Available in colors for ease of phase identification
- Minimum acid gas emissions under combustion
- Meets cold bend test at -40°C
- Meets UL Oil Res. I and II

Product Construction:

Conductor:

- 14 AWG thru 750 kcmil tinned coated copper per ASTM B3. Class I stranding per ASTM B8

Composite Insulation/Jacket:

- Flame-retardant, oil-resistant, limited smoke Cross-linked Polyethylene (XLPE), black

Print:

- GENERAL CABLE® GENFREE® LSZH (PLANT OF MFG) (UL) TYPE USE OR RHH OR RHW-ST1 VW-1 (SIZE) 600 V OIL RES. I SUN RES FOR CT USE*/CSA AWM I A/B 105°C 600 V FT4 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE"

Options:

- Available in blue, green, red and gray
- Tinned copper conductors

Applications:

- General purpose 600 V Power Cable Applications
- RHH/RHW ratings for installation in conduit or raceway
- USE rating for direct burial applications
- CT rated for installation in Cable Tray – 1/0 AWG and larger
- For use in all closed environments or populated spaces such as auditoriums, arenas and health facilities where more stringent specifications for smoke and toxicity emission levels are desired
- Ideally suited for use in a broad range of commercial and Industrial applications where reliability is the major concern, where maximum performance is demanded and where space is limited

Features:

- UL Type RHH/RHW/USE Rated at 90°C dry, 75°C wet, UL File # E90494 and E90499
- CSA AWM I A/B Rated at 105°C
- UL AWM styles 3237 and 3578

Compliances:

- UL 44 Standard for Rubber Insulated Wire
- UL 758 Standard for Appliance Wiring Material
- UL 854 Standard for Service Entrance Cable
- UL 1685 Standard for Vertical Tray Fire Propagation and Smoke Release Test for Electrical and Optical Fiber Cables
- Telcordia GR347 Core
- UL Listed VW-1
- ICEA S-95-658/NEMA WC70
- ICEA T-33-655
- IEEE 1202 (70,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- Sizes 1/0 AWG and larger are listed "FOR CT USE"
- CSA FT4
- CSA Standard C22.2 No. 0.3
- CSA Standard C22.2 No. 210.2
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND (CLASS I) ¹	NOMINAL COND. DIAMETER		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
14 AWG - 750 kcmil CONDUCTORS, CLASS I												
14315.011400*	14	41	0.07	1.88	0.045	1.14	0.18	4.57	14	20	20	29
14315.011200*	12	65	0.09	2.39	0.045	1.14	0.20	5.08	21	31	27	40
14315.011000*	10	65	0.12	3.15	0.045	1.14	0.23	5.84	33	48	39	58
14315.010800*	8	41	0.16	4.06	0.060	1.52	0.29	7.37	51	76	59	87
14315.010600*	6	63/24	0.21	5.33	0.060	1.52	0.34	8.64	80	119	120	179
14315.010400*	4	105/24	0.26	6.60	0.060	1.52	0.38	9.65	134	199	184	274
14315.010200*	2	161/24	0.32	8.13	0.060	1.52	0.45	11.43	205	305	266	396
14315.010100*	1	210/24	0.38	9.65	0.080	2.03	0.55	13.97	261	389	356	530
14315.015100*	1/0	259/24	0.42	10.67	0.080	2.03	0.59	14.99	329	489	433	644
14315.015200*	2/0	329/24	0.47	11.94	0.080	2.03	0.64	16.26	417	621	529	787
14315.015300*	3/0	413/24	0.53	13.46	0.080	2.03	0.71	18.03	524	780	654	973
14315.015400*	4/0	532/24	0.61	15.49	0.080	2.03	0.78	19.81	682	1014	831	1237
14315.016000*	250	608/24	0.65	16.51	0.095	2.41	0.85	21.59	779	1159	946	1408
14315.016200*	350	851/24	0.78	19.81	0.095	2.41	1.00	25.40	1095	1630	1301	1936
14315.016500*	500	1221/24	0.95	24.13	0.095	2.41	1.16	29.46	1517	2258	1821	2710
14315.017000*	750	1850/24	1.11	28.19	0.110	2.79	1.36	34.54	2408	3584	2723	4052

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Class I: sizes 8 AWG and larger.



Phone: 888-593-3355
www.generalcable.com

RHH/RHW-2

XLPE, Low-Voltage Power, Unshielded
2000 V, UL Type RHH/RHW-2, Single Conductor, Aluminum

Product Construction:

Conductor:

- 8 AWG thru 1000 kcmil compacted aluminum ACM (AA-8000 Series)

Insulation:

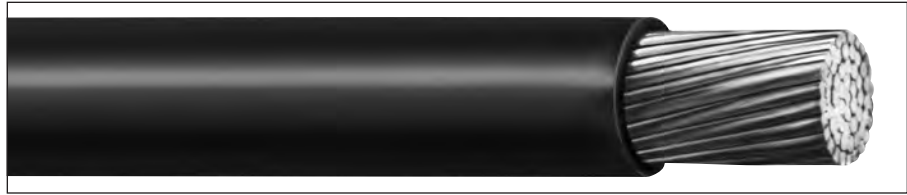
- Flame-retardant Cross-linked Polyethylene (XLPE), black

Print:

- GENERAL CABLE® (PLANT OF MFG) AWG/KCMIL TYPE RHH/RHW-2 (UL) 2000 V YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Applications:

- For use from the lower control box at the base of the wind power tower and out to the step-up transformer through conduit
- General purpose building wire for use in air and approved raceways
- Industrial environments where superior insulation toughness and chemical resistance is required
- Maximum operating temperature not to exceed 90°C in wet or dry locations



Features:

- Rated at 90°C wet or dry
- UV resistant - black is marked SR
- Smaller cable O.D.
- Excellent electrical, thermal and physical properties
- Excellent resistance to moisture
- Excellent resistance to crush, compression cuts and heat deformation

Compliances:

- National Electric Code (NEC)
- UL 44 Stranded for rubber-insulated wires and cables
- ICEA S-95-685/NEMA WC70
- UL Listed as Type RHH/RHW-2, UL File # E90494
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	CONDUCTOR SIZE (AWG/kcmil)	COND. STRAND	NOMINAL CONDUCTOR DIAMETER		NOMINAL AVERAGE INSULATION THICKNESS		NOMINAL CABLE O.D.		NOMINAL ALUMINUM WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

8 AWG - 1000 kcmil CONDUCTORS

522582M*	8	7/W	0.134	3.4	0.070	1.78	0.285	7.20	15.49	23.05	38.15	56.78
650981M*	6	7/W	0.169	4.1	0.070	1.78	0.320	8.10	24.60	36.61	51.08	76.01
589692M*	4	7/W	0.213	5.4	0.070	1.78	0.360	9.10	40.20	59.82	71.50	106.40
313406M*	2	2/W	0.268	6.8	0.070	1.78	0.420	10.70	62.40	92.86	100.10	148.96
149512M*	1	18/W	0.301	7.6	0.090	2.29	0.495	12.60	77.81	115.79	133.76	199.05
827197M*	1/0	18/W	0.339	8.6	0.090	2.29	0.530	13.50	100.12	148.99	160.82	239.32
977766M*	2/0	18/W	0.379	9.6	0.090	2.29	0.580	14.70	123.90	184.38	191.50	284.97
861898M*	3/0	18/W	0.426	10.8	0.090	2.29	0.615	15.60	156.22	232.47	228.68	340.30
763699M*	4/0	18/W	0.476	12.1	0.090	2.29	0.665	16.90	201.40	299.70	281.10	418.31
607078M*	250	35/W	0.524	13.3	0.105	2.70	0.745	18.90	233.50	347.47	336.15	500.23
506887M*	350	35/W	0.619	15.7	0.105	2.70	0.840	21.30	330.90	492.41	448.90	668.00
292686M*	500	35/W	0.740	18.8	0.105	2.70	0.960	24.40	467.10	695.09	604.77	899.96
526839M*	600	58/W	0.820	20.8	0.105	2.70	1.040	26.40	559.50	832.59	710.14	1056.76
883753M*	750	58/W	0.910	23.1	0.120	3.05	1.175	29.90	700.50	1042.41	901.20	1341.08
614607M	1000	58/W	1.060	26.9	0.120	3.05	1.325	33.70	939.00	1397.33	1168.00	1738.10

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Harnessing the Renewable Power of the Sun

Solar Photovoltaic Wire: Why Choose SunGen®?

The SunGen® Difference

As a company committed to environmental stewardship and renewable energy, General Cable has specifically designed its UL 4703 SunGen® suite of photovoltaic (PV) products to effectively and efficiently connect solar panels and concentrated solar power technologies while being able to withstand the harsh operating environments of solar power applications.

- Resistant to UV/sunlight, ozone and water absorption
- Rated for direct burial
- Stable electrical properties over a broad temperature range (-40°C to 120°C)
- Excellent flexibility and performance in low-temperature environments
- Highly resistant to deformation, even in prolonged exposure at high temperatures
- Mechanically rugged construction resists cutting, tearing and abrasions
- CSA RPVU90 listed
- TÜV certified, halogen-free, fire-retardant and low corrosive gas emission provide added degree of safety
- Single and multi-conductor cable constructions
- 18 AWG – 1000 kcmil stranded copper and 8 AWG – 1000 kcmil aluminum conductors

Per NEC Article 690, single conductor cable listed and labeled as photovoltaic (PV) wire and single conductor cable Type USE-2 shall be permitted in exposed outdoor locations in photovoltaic source circuits for photovoltaic module interconnections within the photovoltaic array. When it comes to the wire and cable for today's solar energy projects with PV module interconnections within the photovoltaic array, General Cable's SunGen® UL Listed 4703 PV wire carries a quad rating and offers far more superior sunlight resistance and low-temperature flexibility for maximum performance and reliability for long-term outdoor exposure to the sun.

SunGen® — the obvious choice for solar photovoltaic applications. See for yourself.

Key Performance Differences Between UL Type PV and UL Type USE-2 Wire

PV Wire Applications/Compliances	SunGen® PV Wire - UL Type PV/RHH/RHW-2/USE-2	UL Type USE-2
Voltage: 600, 1000 and 2000 Volts		
Direct Buried: 600, 1000 and 2000 Volts		
Conduit/Duct/Raceway		
NEC Article 690 – PV Systems		
UL 4703 PV Wire		
UL 854 USE-2		
Flame Test Requirements: FT1 & VW-1		
Maximum Operating Temperature: 90°C Wet or Dry		
Cold Bend: -40°C		
Weatherometer Sunlight Resistance: 720 Hour		



DEFORMATION-RESISTANT



DIRECT BURIAL



FLEXIBLE



MOISTURE-RESISTANT



COLD IMPACT



OIL-RESISTANT



UV/SUNLIGHT-RESISTANT



MECHANICALLY RUGGED



LOW SMOKE EMISSIONS



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www.generalcable.com

SunGen® Dual-Layer EPR/XL-CPE, Photovoltaic Wire, 600 V, UL Type PV/USE-2/RHH or RHW-2 Single Conductor, Copper



Product Construction:

Conductor:

- 14 AWG thru 2 AWG tinned coated compressed copper. Class C stranding per ASTM B33 and B8
- 1 AWG thru 1000 kcmil tinned coated compressed copper. Class B stranding per ASTM B33 and B8

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) colored for contrast with black jacket

Jacket:

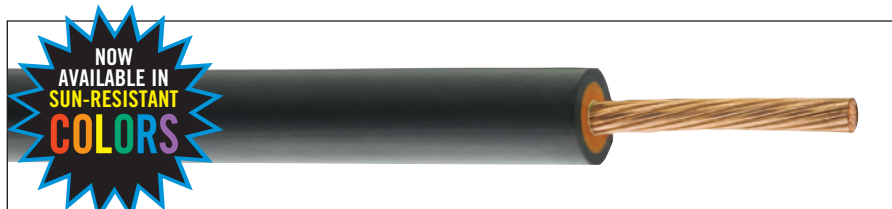
- Black, lead-free, flame-retardant, oil-, chemical- and sunlight-resistant Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® 600 V PV WIRE DIR BUR OR RHH OR RHW-2 OR USE-2 (SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- Other stranding options are available upon request
- Now available in colors



Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 600 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Extra tough, mechanically rugged dual-layer construction
- Increased flexibility
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances:

Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494 or E54260
- UL 854 Type USE-2, UL File # E90499 or E86307
- Limited Smoke Rating per UL
- RoHS Compliant

Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG - 1000 kcmil CONDUCTORS

12211.711400	14	19/.0142	0.070	1.78	0.030	0.76	0.030	0.76	0.201	5.10	13	19	32	48
12211.711200	12	19/.0185	0.088	2.23	0.030	0.76	0.030	0.76	0.219	5.56	20	30	42	62
12211.711100	10	19/.0234	0.112	2.84	0.030	0.76	0.030	0.76	0.242	6.15	32	48	59	88
12211.710800*	8	19/.0295	0.143	3.63	0.045	1.14	0.030	0.76	0.310	7.87	50	74	89	132
12211.710600*	6	19/.0372	0.184	4.67	0.045	1.14	0.045	1.14	0.376	9.55	81	121	141	210
12211.710400*	4	19/.0469	0.234	5.94	0.045	1.14	0.045	1.14	0.420	10.67	129	192	202	301
12211.710200*	2	19/.0526	0.296	7.52	0.045	1.14	0.045	1.14	0.487	12.37	205	305	292	434
12211.710100*	1	19/.0664	0.323	8.20	0.055	1.40	0.060	1.52	0.539	13.69	258	384	408	607
12211.715100*	1/0	19/.0740	0.370	9.40	0.055	1.40	0.060	1.52	0.587	14.91	326	485	478	711
12211.715200*	2/0	19/.0837	0.410	10.41	0.055	1.40	0.060	1.52	0.632	16.05	411	611	590	878
12211.715300*	3/0	19/.0940	0.460	11.68	0.055	1.40	0.060	1.52	0.678	17.22	518	771	734	1092
12211.715400*	4/0	19/.1055	0.520	13.21	0.055	1.40	0.060	1.52	0.738	18.74	653	972	865	1287
12211.716250*	250	37/.0822	0.558	14.17	0.065	1.65	0.080	2.03	0.862	21.89	772	1149	995	1481
12211.716300*	300	37/.0900	0.611	15.52	0.065	1.65	0.080	2.03	0.915	23.24	926	1378	1167	1737
12211.716350*	350	37/.0972	0.661	16.79	0.065	1.65	0.080	2.03	0.965	24.51	1063	1582	1321	1966
12211.716400*	400	37/.1040	0.706	17.93	0.065	1.65	0.080	2.03	1.010	25.65	1235	1838	1508	2244
12211.716500*	500	37/.1159	0.789	20.04	0.065	1.65	0.080	2.03	1.093	27.76	1509	2246	1810	2694
12211.716600*	600	61/.0992	0.866	22.00	0.080	2.03	0.080	2.03	1.200	30.48	1883	2802	2237	3329
12211.716750*	750	61/.1109	0.968	24.59	0.080	2.03	0.080	2.03	1.302	33.07	2316	3447	2707	4028
12211.717000*	1000	61/.1280	1.117	28.37	0.080	2.03	0.080	2.03	1.451	36.86	3088	4595	3534	5259

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.



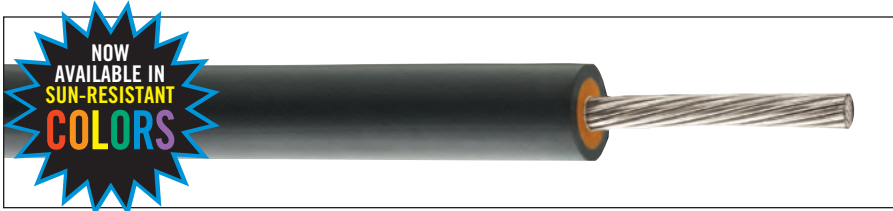
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SunGen® Dual-Layer EPR/XL-CPE, Photovoltaic Wire, 600 V, UL Type PV/USE-2/RHH or RHW-2

Single Conductor, Aluminum



Product Construction:

Conductor:

- 8 AWG thru 1000 kcmil compact aluminum ACM (8000 series)

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) colored for contrast with black jacket

Jacket:

- Black, lead-free, flame-retardant, oil-, chemical- and sunlight-resistant Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® 600 V PV WIRE DIR BUR OR RHH OR RHW-2 OR USE-2 (SIZE) AL ACM 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Other stranding options are available upon request
- Now available in colors

Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 600 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range

Features (cont'd.):

- Extra tough, mechanically rugged dual-layer construction
- Increased flexibility
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances:

Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494 or E54260
- UL 854 Type USE-2, UL File # E90499 or E86307
- Limited Smoke Rating per UL
- RoHS Compliant

Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE DIAMETER		ALUMINUM WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

8 AWG - 1000 kcmil CONDUCTORS

12211.710800A*	8	7/.0486	0.134	3.40	0.030	0.76	0.030	0.76	0.258	6.55	16	23	40	59
12211.710600A*	6	7/.0612	0.169	4.29	0.045	1.14	0.045	1.14	0.357	9.07	25	37	74	110
12211.710400A*	4	7/.0772	0.213	5.41	0.045	1.14	0.045	1.14	0.401	10.19	39	58	97	144
12211.710200A*	2	7/.0974	0.268	6.81	0.045	1.14	0.045	1.14	0.456	11.58	63	93	131	194
12211.710100A*	1	19/.0664	0.299	7.59	0.055	1.40	0.060	1.52	0.539	13.69	79	117	179	267
12211.715100A*	1/0	19/.0745	0.336	8.53	0.055	1.40	0.060	1.52	0.576	14.63	99	148	209	311
12211.715200A*	2/0	19/.0837	0.376	9.55	0.055	1.40	0.060	1.52	0.616	15.65	125	186	244	364
12211.715300A*	3/0	19/.0940	0.423	10.74	0.055	1.40	0.060	1.52	0.663	16.84	158	235	289	430
12211.715400A*	4/0	19/.1055	0.475	12.07	0.055	1.40	0.060	1.52	0.715	18.16	199	296	343	510
12211.716250A*	250	37/.0822	0.520	13.21	0.065	1.65	0.080	2.03	0.824	20.93	262	390	468	697
12211.716300A*	300	37/.0900	0.570	14.48	0.065	1.65	0.080	2.03	0.874	22.20	282	420	504	749
12211.716350A*	350	37/.0972	0.616	15.65	0.065	1.65	0.080	2.03	0.920	23.37	329	490	565	841
12211.716400A*	400	37/.1040	0.659	16.74	0.065	1.65	0.080	2.03	0.963	24.46	376	560	625	931
12211.716500A*	500	37/.1159	0.736	18.69	0.065	1.65	0.080	2.03	1.040	26.42	471	701	745	1108
12211.716600A*	600	61/.0992	0.813	20.65	0.080	2.03	0.080	2.03	1.147	29.13	565	841	894	1331
12211.716750A*	750	61/.1109	0.908	23.06	0.080	2.03	0.080	2.03	1.242	31.55	706	1051	1068	1589
12211.717000A*	1000	61/.1280	1.060	26.92	0.080	2.03	0.080	2.03	1.394	35.41	914	1360	1328	1977

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

SunGen® Dual-Layer EPR/XL-CPE, Photovoltaic Wire, 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 Single Conductor, Copper



Product Construction:

Conductor:

- 14 AWG thru 2 AWG tinned coated compressed copper. Class C stranding per ASTM B33 and B8
- 1 AWG thru 1000 kcmil tinned coated compressed copper. Class B stranding per ASTM B33 and B8

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) colored for contrast with black jacket

Jacket:

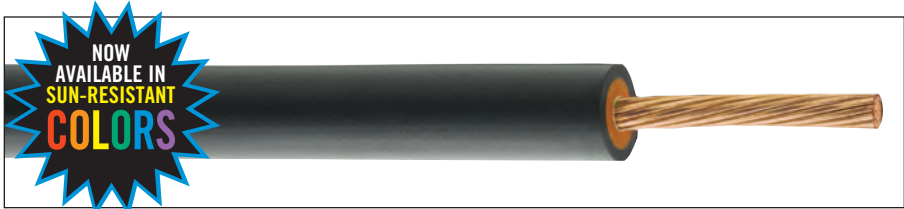
- Black, lead-free, flame-retardant, oil-, chemical- and sunlight-resistant Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE DIR BUR OR RHH OR RHW-2 OR 600 V USE-2 (SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 c(UL) RWU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- Other stranding options are available upon request
- Now available in colors



Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Extra tough, mechanically rugged dual-layer construction
- Increased flexibility
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances:

Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494 or E54260
- UL 854 Type USE-2 for 600 V, UL File # E90499 or E86307
- Limited Smoke Rating per UL
- RoHS Compliant

Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG - 1000 kcmil CONDUCTORS

12221.711400	14	19/.0142	0.070	1.78	0.045	1.14	0.030	0.76	0.232	5.89	13	19	36	54
12221.711200	12	19/.0185	0.088	2.23	0.045	1.14	0.030	0.76	0.250	6.35	20	30	46	68
12221.711100	10	19/.0234	0.112	2.84	0.045	1.14	0.030	0.76	0.273	6.93	32	48	64	95
12221.710800*	8	19/.0295	0.143	3.63	0.055	1.40	0.030	0.76	0.332	8.43	50	74	95	141
12221.710600*	6	19/.0372	0.184	4.67	0.055	1.40	0.045	1.14	0.398	10.11	81	121	148	220
12221.710400*	4	19/.0469	0.234	5.94	0.055	1.40	0.045	1.14	0.442	11.23	129	192	208	309
12221.710200*	2	19/.0526	0.296	7.52	0.055	1.40	0.045	1.14	0.507	12.88	205	305	306	455
12221.710100*	1	19/.0664	0.323	8.20	0.065	1.65	0.060	1.52	0.561	14.25	258	384	440	655
12221.715100*	1/0	19/.0740	0.370	9.40	0.065	1.65	0.060	1.52	0.607	15.42	326	485	505	751
12221.715200*	2/0	19/.0837	0.410	10.41	0.065	1.65	0.060	1.52	0.652	16.56	411	611	615	915
12221.715300*	3/0	19/.0940	0.460	11.68	0.065	1.65	0.060	1.52	0.700	17.78	518	771	747	1111
12221.715400*	4/0	19/.1055	0.520	13.21	0.065	1.65	0.060	1.52	0.760	19.30	653	972	891	1326
12221.716250*	250	37/.0822	0.558	14.17	0.075	1.91	0.080	2.03	0.882	22.40	772	1149	1012	1506
12221.716300*	300	37/.0900	0.611	15.52	0.075	1.91	0.080	2.03	0.935	23.75	926	1378	1184	1763
12221.716350*	350	37/.0972	0.661	16.79	0.075	1.91	0.080	2.03	0.985	25.02	1063	1582	1339	1993
12221.716400*	400	37/.1040	0.706	17.93	0.075	1.91	0.080	2.03	1.030	26.16	1235	1838	1527	2273
12221.716500*	500	37/.1159	0.789	20.04	0.075	1.91	0.080	2.03	1.113	28.27	1509	2246	1831	2725
12221.716600*	600	61/.0992	0.866	22.00	0.090	2.29	0.080	2.03	1.222	31.04	1883	2802	2262	3367
12221.716750*	750	61/.1109	0.968	24.59	0.090	2.29	0.080	2.03	1.324	33.63	2316	3447	2734	4069
12221.717000*	1000	61/.1280	1.117	28.37	0.090	2.29	0.080	2.03	1.473	37.41	3088	4595	3564	5303

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.

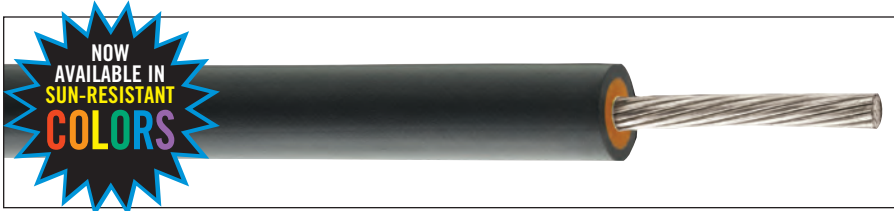


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SunGen® Dual-Layer EPR/XL-CPE, Photovoltaic Wire, 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 Single Conductor, Aluminum



NOW AVAILABLE IN SUN-RESISTANT COLORS

Product Construction:

Conductor:

- 8 AWG thru 1000 kcmil compact aluminum ACM (8000 series)

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) colored for contrast with black jacket

Jacket:

- Black, lead-free, flame-retardant, oil-, chemical- and sunlight-resistant Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE DIR BUR OR RHH OR RHW-2 OR 600 V USE-2 (SIZE) AL ACM 90°C WET OR DRY SUN RES (UL) -40°C VW-1 c(UL) RWU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Other stranding options are available upon request
- Now available in colors

Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range

Features (cont'd.):

- Extra tough, mechanically rugged dual-layer construction
- Increased flexibility
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances:

Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494 or E54260
- UL 854 Type USE-2 for 600 V, UL File # E90499 or E86307
- Limited Smoke Rating per UL
- RoHS Compliant

Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE DIAMETER		ALUMINUM WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

8 AWG - 1000 kcmil CONDUCTORS

12221.710800A*	8	7/.0486	0.134	3.40	0.055	1.40	0.030	0.76	0.308	7.82	16	23	53	79
12221.710600A*	6	7/.0612	0.169	4.29	0.055	1.40	0.045	1.14	0.377	9.58	25	37	81	121
12221.710400A*	4	7/.0772	0.213	5.41	0.055	1.40	0.045	1.14	0.421	10.69	39	58	105	156
12221.710200A*	2	7/.0974	0.268	6.81	0.055	1.40	0.045	1.14	0.476	12.09	63	93	139	207
12221.710100A*	1	19/.0664	0.299	7.59	0.065	1.65	0.060	1.52	0.559	14.20	79	117	190	282
12221.715100A*	1/0	19/.0745	0.336	8.53	0.065	1.65	0.060	1.52	0.596	15.14	99	148	220	328
12221.715200A*	2/0	19/.0837	0.376	9.55	0.065	1.65	0.060	1.52	0.636	16.15	125	186	256	381
12221.715300A*	3/0	19/.0940	0.423	10.74	0.065	1.65	0.060	1.52	0.683	17.35	158	235	302	449
12221.715400A*	4/0	19/.1055	0.475	12.07	0.065	1.65	0.060	1.52	0.735	18.67	199	296	356	530
12221.716250A*	250	37/.0822	0.520	13.21	0.075	1.91	0.080	2.03	0.844	21.44	262	390	484	720
12221.716300A*	300	37/.0900	0.570	14.48	0.075	1.91	0.080	2.03	0.894	22.71	282	420	520	774
12221.716350A*	350	37/.0972	0.616	15.65	0.075	1.91	0.080	2.03	0.940	23.88	329	490	582	867
12221.716400A*	400	37/.1040	0.659	16.74	0.075	1.91	0.080	2.03	0.983	24.97	376	560	644	958
12221.716500A*	500	37/.1159	0.736	18.69	0.075	1.91	0.080	2.03	1.060	26.92	471	701	764	1137
12221.716600A*	600	61/.0992	0.813	20.65	0.090	2.29	0.080	2.03	1.169	29.69	565	841	918	1366
12221.716750A*	750	61/.1109	0.908	23.06	0.090	2.29	0.080	2.03	1.264	32.11	706	1051	1094	1628
12221.717000A*	1000	61/.1280	1.060	26.92	0.090	2.29	0.080	2.03	1.416	35.97	914	1360	1357	2019

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.



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SunGen® XLPE, Photovoltaic Wire, 600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or CSA RPVU90, 1000 V Single Conductor, Copper



Product Construction:

Conductor:

- 18 AWG thru 2 AWG tinned coated compressed copper. Class C stranding per ASTM B33 and B8
- 1 AWG thru 1000 kcmil tinned coated compressed copper. Class B stranding per ASTM B33 and B8

Insulation:

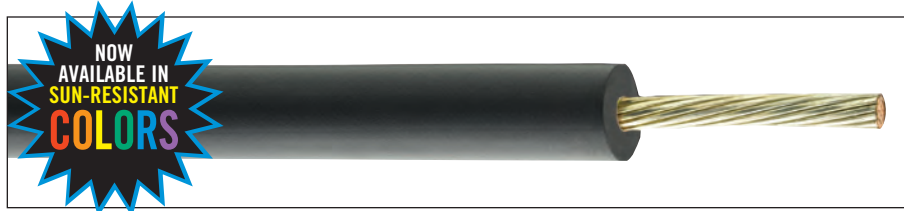
- Flame-retardant Cross-linked Polyethylene (XLPE), black

Print:

- 18 AWG and 16 AWG: GENERAL CABLE® (PLANT OF MFG) SUNGEN® 600 V PV WIRE DIR BUR 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK
- 14 AWG thru 1000 kcmil: GENERAL CABLE® (PLANT OF MFG) SUNGEN® 600 V PV WIRE DIR BUR OR 2000 V RHH OR RHW-2 OR 600 V USE-2 (SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 (CSA) RPVU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- Other stranding options are available upon request
- Now available in colors



Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 600 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Increased flexibility
- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances:

Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494
- UL 854 Type USE-2, UL File # E90499
- CSA C22.2 No. 271 RPVU90

Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

18 AWG - 1000 kcmil CONDUCTORS

12411.711800*	18	19/.0092	0.045	1.14	0.060	1.52	0.169	4.29	5	7	14	21
12411.711600*	16	19/.0117	0.056	1.42	0.060	1.52	0.180	4.57	8	12	18	27
12411.711400	14	19/.0142	0.070	1.78	0.060	1.52	0.194	4.93	13	19	27	40
12411.711200	12	19/.0185	0.088	2.23	0.060	1.52	0.214	5.43	20	30	36	54
12411.711100	10	19/.0234	0.112	2.84	0.060	1.52	0.238	6.04	32	48	51	76
12411.710800*	8	19/.0295	0.143	3.63	0.080	2.03	0.307	7.80	50	74	85	126
12411.710600*	6	19/.0372	0.184	4.67	0.080	2.03	0.348	8.84	81	121	123	183
12411.710400*	4	19/.0469	0.234	5.94	0.080	2.03	0.398	10.11	129	192	180	268
12411.710200*	2	19/.0526	0.296	7.52	0.080	2.03	0.460	11.68	205	305	267	397
12411.710100*	1	19/.0664	0.323	8.20	0.095	2.41	0.515	13.08	258	384	333	495
12411.715100*	1/0	19/.0740	0.370	9.40	0.095	2.41	0.563	14.30	326	485	410	610
12411.715200*	2/0	19/.0837	0.410	10.41	0.095	2.41	0.608	15.44	411	611	502	747
12411.715300*	3/0	19/.0940	0.460	11.68	0.095	2.41	0.658	16.71	518	771	620	922
12411.715400*	4/0	19/.1055	0.520	13.21	0.095	2.41	0.714	18.13	653	972	767	1141
12411.716250*	250	37/.0822	0.558	14.17	0.110	2.79	0.784	19.91	772	1149	923	1374
12411.716300*	300	37/.0900	0.611	15.52	0.110	2.79	0.837	21.26	926	1378	1090	1622
12411.716350*	350	37/.0972	0.661	16.79	0.110	2.79	0.887	22.53	1063	1582	1240	1845
12411.716400*	400	37/.1040	0.706	17.93	0.110	2.79	0.932	23.67	1235	1838	1423	2117
12411.716500*	500	37/.1159	0.789	20.04	0.110	2.79	1.015	25.78	1509	2246	1718	2557
12411.716600*	600	61/.0992	0.866	22.00	0.125	3.18	1.122	28.50	1883	2802	2136	3179
12411.716750*	750	61/.1109	0.968	24.59	0.125	3.18	1.224	31.09	2316	3447	2597	3865
12411.717000*	1000	61/.1280	1.117	28.37	0.125	3.18	1.373	34.87	3088	4595	3411	5076

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.

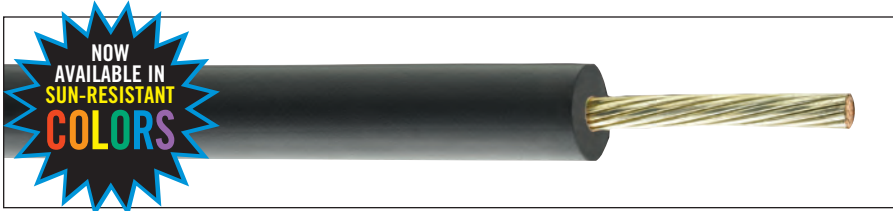


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SunGen® XLPE, Photovoltaic Wire, 600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or CSA RPVU90, 1000 V Single Conductor, Aluminum



Product Construction:

Conductor:

- 8 AWG thru 1000 kcmil compact aluminum ACM (8000 series)

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE), black

Print:

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® 600 V PV WIRE DIR BUR OR 2000 V RHH OR RHW-2 OR 600 V USE-2 (SIZE) AL ACM 90°C WET OR DRY SUN RES (UL) -40°C VW-1 CSA RPVU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Other stranding options are available upon request
- Now available in colors

Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 600 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Increased flexibility
- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances:

Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494
- UL 854 Type USE-2, UL File # E90499
- CSA C22.2 No. 271 RPVU90

Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		ALUMINUM WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
8 AWG - 1000 kcmil CONDUCTORS												
12411.710800A*	8	7/.0486	0.134	3.40	0.080	2.03	0.298	7.57	16	23	49	73
12411.710600A*	6	7/.0612	0.169	4.29	0.080	2.03	0.333	8.46	25	37	64	95
12411.710400A*	4	7/.0772	0.213	5.41	0.080	2.03	0.377	9.58	39	58	85	127
12411.710200A*	2	7/.0974	0.268	6.81	0.080	2.03	0.432	10.97	63	93	117	174
12411.710100A*	1	19/.0664	0.299	7.59	0.095	2.41	0.495	12.57	79	117	153	227
12411.715100A*	1/0	19/.0745	0.336	8.53	0.095	2.41	0.532	13.51	99	148	180	268
12411.715200A*	2/0	19/.0837	0.376	9.55	0.095	2.41	0.572	14.53	125	186	214	318
12411.715300A*	3/0	19/.0940	0.423	10.74	0.095	2.41	0.619	15.72	158	235	256	380
12411.715400A*	4/0	19/.1055	0.475	12.07	0.095	2.41	0.671	17.04	199	296	307	456
12411.716250A*	250	37/.0822	0.520	13.21	0.110	2.79	0.746	18.95	262	390	399	594
12411.716300A*	300	37/.0900	0.570	14.48	0.110	2.79	0.796	20.22	282	420	430	640
12411.716350A*	350	37/.0972	0.616	15.65	0.110	2.79	0.842	21.39	329	490	487	725
12411.716400A*	400	37/.1040	0.659	16.74	0.110	2.79	0.885	22.48	376	560	544	810
12411.716500A*	500	37/.1159	0.736	18.69	0.110	2.79	0.962	24.43	471	701	656	977
12411.716600A*	600	61/.0992	0.813	20.65	0.125	3.18	1.069	27.15	565	841	798	1187
12411.716750A*	750	61/.1109	0.908	23.06	0.125	3.18	1.164	29.57	706	1051	963	1433
12411.717000A*	1000	61/.1280	1.060	26.92	0.125	3.18	1.316	33.43	914	1360	1210	1801

Dimensions and weights are nominal; subject to industry tolerances.
* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.



SunGen® IC XLPE, Photovoltaic Wire, 600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or CSA RPVU90 1000 V, Single Conductor, Copper



Product Construction:

Conductor:

- 18 AWG thru 1000 kcmil bare compressed copper. Class B per ASTM B8

Insulation:

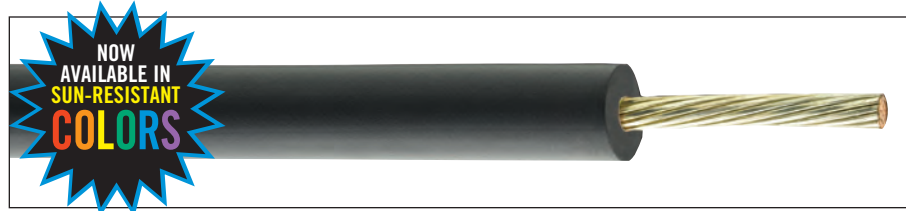
- Flame-retardant Cross-linked Polyethylene (XLPE), black

Print:

- 18 AWG and 16 AWG: GENERAL CABLE® (PLANT OF MFG) SUNGEN® 600 V PV WIRE DIR BUR 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK
- 14 AWG thru 1000 kcmil: GENERAL CABLE® (PLANT OF MFG) SUNGEN® 600 V PV WIRE DIR BUR OR 2000 V RHH OR RHW-2 OR 600 V USE-2 (SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 (CSA) RPVU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Other stranding options are available upon request
- Now available in colors



Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 600 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances:

Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494
- UL 854 Type USE-2, UL File # E90499
- CSA C22.2 No. 271 RPVU90

Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
18 AWG - 1000 kcmil CONDUCTORS												
12431.711800*	18	7/.0152	0.045	1.14	0.060	1.52	0.169	4.29	5	7	14	21
12431.711600*	16	7/.0192	0.056	1.42	0.060	1.52	0.180	4.57	8	12	18	27
12431.711400*	14	7/.0240	0.070	1.78	0.060	1.52	0.194	4.93	13	19	27	40
12431.711200	12	7/.0305	0.088	2.23	0.060	1.52	0.214	5.43	20	30	36	54
12431.711100	10	7/.0385	0.112	2.84	0.060	1.52	0.238	6.04	32	48	51	76
12431.710800	8	7/.0486	0.143	3.63	0.080	2.02	0.313	7.95	50	74	88	131
12431.710600*	6	7/.0612	0.184	4.67	0.080	2.02	0.356	9.04	81	121	126	186
12431.710400*	4	7/.0772	0.234	5.94	0.080	2.02	0.405	10.29	129	192	183	272
12431.710200*	2	7/.0974	0.296	7.52	0.080	2.02	0.466	11.84	205	305	269	401
12431.710100*	1	19/.0664	0.323	8.20	0.095	2.41	0.515	13.08	258	384	333	495
12431.715100*	1/0	19/.0740	0.370	9.40	0.095	2.41	0.563	14.30	326	485	410	610
12431.715200*	2/0	19/.0837	0.410	10.41	0.095	2.41	0.608	15.44	411	611	502	747
12431.715300*	3/0	19/.0940	0.460	11.68	0.095	2.41	0.658	16.71	518	771	620	922
12431.715400*	4/0	19/.1055	0.520	13.21	0.095	2.41	0.714	18.13	653	972	767	1141
12431.716250*	250	37/.0822	0.558	14.17	0.110	2.79	0.784	19.91	772	1149	923	1374
12431.716300*	300	37/.0900	0.611	15.52	0.110	2.79	0.837	21.26	926	1378	1090	1622
12431.716350*	350	37/.0972	0.661	16.79	0.110	2.79	0.887	22.53	1063	1582	1240	1845
12431.716400*	400	37/.1040	0.706	17.93	0.110	2.79	0.932	23.67	1235	1838	1423	2117
12431.716500*	500	37/.1159	0.789	20.04	0.110	2.79	1.015	25.78	1509	2246	1718	2557
12431.716600*	600	61/.0992	0.866	22.00	0.125	3.18	1.122	28.50	1883	2802	2136	3179
12431.716750*	750	61/.1109	0.968	24.59	0.125	3.18	1.224	31.09	2316	3447	2597	3865
12431.717000*	1000	61/.1280	1.117	28.37	0.125	3.18	1.373	34.87	3088	4595	3411	5076

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.

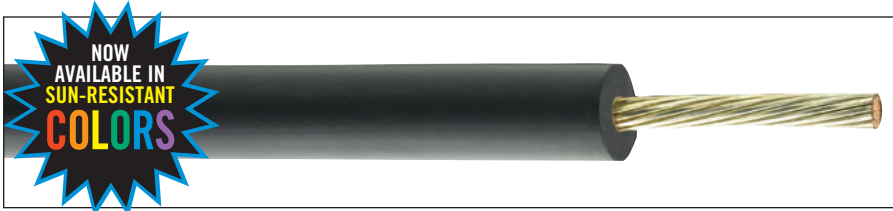


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SunGen® XLPE, Photovoltaic Wire, 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 or CSA RPVU90, 1000 V Single Conductor, Copper



Product Construction:

Conductor:

- 18 AWG thru 2 AWG tinned coated compressed copper. Class C stranding per ASTM B33 and B8
- 1 AWG thru 1000 kcmil tinned coated compressed copper. Class B stranding per ASTM B33 and B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE), black

Print:

- 18 AWG and 16 AWG: GENERAL CABLE® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE DIR BUR 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK
- 14 AWG thru 1000 kcmil: GENERAL CABLE® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE DIR BUR OR RHH OR RHW-2 OR 600 V USE-2

Print (cont'd.):

(SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 (CSA) RPVU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Bare copper conductor
- Other stranding options are available upon request
- Now available in colors

Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

Features:

- Rated 90°C wet and dry
- Rated for direct burial

Features (cont'd.):

- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Increased flexibility
- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances:

Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494
- UL 854 Type USE-2 for 600 V, UL File # E90499
- CSA C22.2 No. 271 RPVU90

Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
18 AWG - 1000 kcmil CONDUCTORS												
12421.711800*	18	19/.0092	0.045	1.14	0.075	1.90	0.199	5.05	5	7	16	24
12421.711600*	16	19/.0117	0.056	1.42	0.075	1.90	0.210	5.33	8	12	21	31
12421.711400	14	19/.0142	0.070	1.78	0.075	1.90	0.224	5.69	13	19	32	48
12421.711200	12	19/.0185	0.088	2.23	0.075	1.90	0.244	6.20	20	30	42	62
12421.711100	10	19/.0234	0.112	2.84	0.075	1.90	0.268	6.81	32	48	57	85
12421.710800*	8	19/.0295	0.143	3.63	0.085	2.16	0.326	8.28	50	74	87	129
12421.710600*	6	19/.0372	0.184	4.67	0.085	2.16	0.363	9.22	81	121	123	183
12421.710400*	4	19/.0469	0.234	5.94	0.085	2.16	0.406	10.31	129	192	181	269
12421.710200*	2	19/.0526	0.296	7.52	0.085	2.16	0.474	12.04	205	305	266	396
12421.710100*	1	19/.0664	0.323	8.20	0.105	2.67	0.538	13.66	258	384	350	521
12421.715100*	1/0	19/.0740	0.370	9.40	0.105	2.67	0.586	14.88	326	485	429	638
12421.715200*	2/0	19/.0837	0.410	10.41	0.105	2.67	0.631	16.03	411	611	527	784
12421.715300*	3/0	19/.0940	0.460	11.68	0.105	2.67	0.674	17.12	518	771	647	963
12421.715400*	4/0	19/.1055	0.520	13.21	0.105	2.67	0.737	18.72	653	972	796	1184
12421.716250*	250	37/.0822	0.558	14.17	0.120	3.05	0.804	20.42	772	1149	938	1396
12421.716300*	300	37/.0900	0.611	15.52	0.120	3.05	0.857	21.77	926	1378	1106	1646
12421.716350*	350	37/.0972	0.661	16.79	0.120	3.05	0.907	23.04	1063	1582	1257	1870
12421.716400*	400	37/.1040	0.706	17.93	0.120	3.05	0.952	24.18	1235	1838	1441	2144
12421.716500*	500	37/.1159	0.789	20.04	0.120	3.05	1.035	26.29	1509	2246	1737	2585
12421.716600*	600	61/.0992	0.866	22.00	0.135	3.43	1.142	29.01	1883	2802	2157	3211
12421.716750*	750	61/.1109	0.968	24.59	0.135	3.43	1.244	31.60	2316	3447	2620	3900
12421.717000*	1000	61/.1280	1.117	28.37	0.135	3.43	1.393	35.38	3088	4595	3437	5115

Dimensions and weights are nominal; subject to industry tolerances.
* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.



SunGen® XLPE, Photovoltaic Wire, 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 or CSA RPVU90, 1000 V Single Conductor, Aluminum



Product Construction:

Conductor:

- 8 AWG thru 1000 kcmil compact aluminum ACM (8000 series)

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE), black

Print:

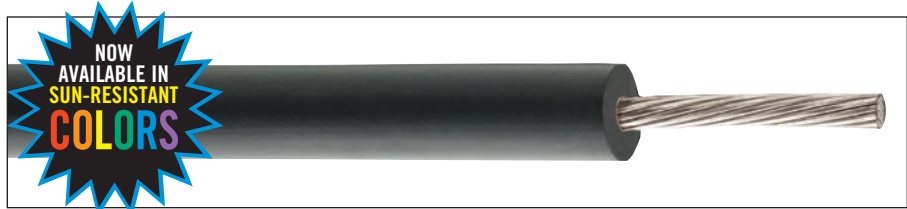
- GENERAL CABLE® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE DIR BUR OR RHH OR RHW-2 OR 600 V USE-2 (SIZE) AL ACM 90°C WET OR DRY SUN RES (UL) -40°C VW-1 CSA RPVU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Other stranding options are available upon request
- Now available in colors

Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70



Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Increased flexibility
- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances:

Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494
- UL 854 Type USE-2, UL File # E90499
- CSA C22.2 No. 271 RPVU90

Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		ALUMINUM WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

8 AWG - 1000 kcmil CONDUCTORS

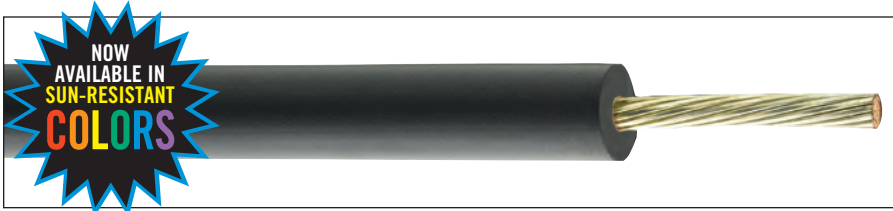
12421.710800A*	8	7/.0486	0.134	3.40	0.085	2.16	0.310	7.87	16	23	52	78
12421.710600A*	6	7/.0612	0.169	4.29	0.085	2.16	0.345	8.76	25	37	67	100
12421.710400A*	4	7/.0772	0.213	5.41	0.085	2.16	0.389	9.88	39	58	90	133
12421.710200A*	2	7/.0974	0.268	6.81	0.085	2.16	0.444	11.28	63	93	122	182
12421.710100A*	1	19/.0664	0.299	7.59	0.105	2.67	0.515	13.08	79	117	162	241
12421.715100A*	1/0	19/.0745	0.336	8.53	0.105	2.67	0.552	14.02	99	148	191	284
12421.715200A*	2/0	19/.0837	0.376	9.55	0.105	2.67	0.592	15.04	125	186	225	334
12421.715300A*	3/0	19/.0940	0.423	10.74	0.105	2.67	0.639	16.23	158	235	267	398
12421.715400A*	4/0	19/.1055	0.475	12.07	0.105	2.67	0.691	17.55	199	296	319	475
12421.716250A*	250	37/.0822	0.520	13.21	0.120	3.05	0.766	19.46	262	390	413	615
12421.716300A*	300	37/.0900	0.570	14.48	0.120	3.05	0.816	20.73	282	420	445	663
12421.716350A*	350	37/.0972	0.616	15.65	0.120	3.05	0.862	21.89	329	490	503	749
12421.716400A*	400	37/.1040	0.659	16.74	0.120	3.05	0.905	22.99	376	560	561	835
12421.716500A*	500	37/.1159	0.736	18.69	0.120	3.05	0.982	24.94	471	701	675	1004
12421.716600A*	600	61/.0992	0.813	20.65	0.135	3.43	1.089	27.66	565	841	818	1217
12421.716750A*	750	61/.1109	0.908	23.06	0.135	3.43	1.184	30.07	706	1051	985	1466
12421.717000A*	1000	61/.1280	1.060	26.92	0.135	3.43	1.336	33.93	914	1360	1235	1838

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.



SunGen® IC XLPE, Photovoltaic Wire, 2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 or CSA RPVU90 1000 V, Single Conductor, Copper



Product Construction:

Conductor:

- 18 AWG thru 1000 kcmil bare compressed copper. Class B per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE), black

Print:

- 18 AWG and 16 AWG: GENERAL CABLE® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE DIR BUR 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK
- 14 AWG thru 1000 kcmil: GENERAL CABLE® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE DIR BUR OR RHH OR RHW-2 OR 600 V USE-2 (SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 (CSA) RPVU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductor
- Other stranding options are available upon request
- Now available in colors

Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range

Features (cont'd.):

- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

Compliances:

Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494 or E54260
- UL 854 Type USE-2 for 600 V, UL File # E90499 or E86307
- CSA C22.2 No. 271 RPVU90

Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

18 AWG - 1000 kcmil CONDUCTORS

12441.711800*	18	7/.0152	0.045	1.14	0.075	1.90	0.199	5.05	5	7	16	24
12441.711600*	16	7/.0192	0.056	1.42	0.075	1.90	0.210	5.33	8	12	21	31
12441.711400*	14	7/.0240	0.070	1.78	0.075	1.90	0.224	5.69	13	19	32	48
12441.711200	12	7/.0305	0.088	2.23	0.075	1.90	0.244	6.20	20	30	42	62
12441.711100	10	7/.0385	0.112	2.84	0.075	1.90	0.268	6.81	32	48	57	85
12441.710800	8	7/.0486	0.143	3.63	0.085	2.16	0.326	8.28	50	74	87	129
12441.710600*	6	7/.0612	0.184	4.67	0.085	2.16	0.363	9.22	81	121	123	183
12441.710400*	4	7/.0772	0.234	5.94	0.085	2.16	0.406	10.31	129	192	181	269
12441.710200*	2	7/.0974	0.296	7.52	0.085	2.16	0.474	12.04	205	305	266	396
12441.710100*	1	19/.0664	0.323	8.20	0.105	2.67	0.538	13.66	258	384	350	521
12441.715100*	1/0	19/.0740	0.370	9.40	0.105	2.67	0.586	14.88	326	485	429	638
12441.715200*	2/0	19/.0837	0.410	10.41	0.105	2.67	0.631	16.03	411	611	527	784
12441.715300*	3/0	19/.0940	0.460	11.68	0.105	2.67	0.674	17.12	518	771	647	963
12441.715400*	4/0	19/.1055	0.520	13.21	0.105	2.67	0.737	18.72	653	972	796	1184
12441.716250*	250	37/.0822	0.558	14.17	0.120	3.05	0.804	20.42	772	1149	938	1396
12441.716300*	300	37/.0900	0.611	15.52	0.120	3.05	0.857	21.77	926	1378	1106	1646
12441.716350*	350	37/.0972	0.661	16.79	0.120	3.05	0.907	23.04	1063	1582	1257	1870
12441.716400*	400	37/.1040	0.706	17.93	0.120	3.05	0.952	24.18	1235	1838	1441	2144
12441.716500*	500	37/.1159	0.789	20.04	0.120	3.05	1.035	26.29	1509	2246	1737	2585
12441.716600*	600	61/.0992	0.866	22.00	0.135	3.43	1.142	29.01	1883	2802	2157	3211
12441.716750*	750	61/.1109	0.968	24.59	0.135	3.43	1.244	31.60	2316	3447	2620	3900
12441.717000*	1000	61/.1280	1.117	28.37	0.135	3.43	1.393	35.38	3088	4595	3437	5115

Dimensions and weights are nominal; subject to industry tolerances.
* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.



SunGen® MI

XLPE/PVC, AC Micro-Inverter Cable
600 V, UL Type TC-ER¹



Product Construction:

Conductor:

- 14 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class C stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color code: See chart below

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® MI XX/C XXAWG FR-XLP/PVC (UL) TYPE TC-ER XHHW-2 CDRS DIR BUR SUN RES 90°C WET OR DRY 600 V DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Overall shielded multi-conductors
- Other constructions available upon request

Applications:

- In free air, raceways and direct burial
- In wet or dry locations
- Approved for direct burial, Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Fillers as required to provide a round cable design
- Ripcord applied under jacket to facilitate stripping



Features (cont'd.):

- Excellent physical and electrical properties
- Increased flexibility
- Excellent moisture resistance
- Excellent resistance to compression and impact
- Abrasion- and chemical-resistant
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1581 VW-1
- UL 1277
- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)
- CSA FT4

Compliances (cont'd.):

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

COLOR CODE CHART

NO. OF CONDUCTORS	COLOR SEQUENCE
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Orange, Green

Green insulated conductor indicates use for ground wire only per NEC.

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

395410*	2	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.365	9.27	25	37	73	109
395420	3	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.390	9.91	40	59	93	138
395430*	4	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.425	10.80	53	79	116	173
395440*	5	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.465	11.81	66	99	140	208

12 AWG MULTI-CONDUCTORS

395450	2	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.410	10.41	41	61	96	143
395460	3	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.435	11.05	65	96	125	186
395470*	4	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.475	12.07	86	128	157	234
395480*	5	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.515	13.08	108	160	191	284

10 AWG MULTI-CONDUCTORS

395490*	2	10	19/.0234	0.112	2.84	0.030	0.76	0.045	1.14	0.455	11.56	67	100	130	193
395500*	3	10	19/.0234	0.112	2.84	0.030	0.76	0.045	1.14	0.485	12.32	101	150	173	257
395510*	4	10	19/.0234	0.112	2.84	0.030	0.76	0.060	1.52	0.560	14.22	135	200	236	351
395520*	5	10	19/.0234	0.112	2.84	0.030	0.76	0.060	1.52	0.615	15.62	167	249	287	427

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.



SunGen® MI-LS

XLPO/LSZH, AC Micro-Inverter Cable
600 V, UL Type TC-LS-ER¹



Product Construction:

Conductor:

- 14 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class C stranding per ASTM B8

Insulation:

- Lead-free, flame-retardant, low-smoke Cross-linked Polyolefin (XLPO)
- Color code: See chart below

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print:

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® MI-LS XX/C XXAWG XLPO/LSZH (UL) TYPE TC-LS-ER XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Overall shielded multi-conductor
- Other constructions available upon request

Applications:

- In free air, raceways, aerial or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with the NEC for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Fillers as required to provide a round cable design
- Ripcord applied under jacket to facilitate stripping
- Excellent physical and electrical properties
- Increased flexibility
- Excellent moisture resistance
- Excellent resistance to compression and impact
- Abrasion- and chemical-resistant
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -30°C
- Low-Smoke, Zero-Halogen jacket is environmentally safe
- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire

Features (cont'd.):

- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-LS-ER, UL File # E57179
- UL 1581
- RoHS Compliant

Flame Test Compliances:

- UL 1581
- UL 1277
- UL 1685
- IEEE 1202

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

COLOR CODE CHART

NO. OF CONDUCTORS	COLOR SEQUENCE
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Orange, Green

Green insulated conductor indicates use for ground wire only per NEC.

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG MULTI-CONDUCTORS

395530*	2	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.370	9.40	25	37	71	106
395540	3	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.390	9.91	40	59	92	137
395550*	4	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.425	10.80	53	79	115	171
395560*	5	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.465	11.81	66	99	139	207

12 AWG MULTI-CONDUCTORS

395570	2	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.410	10.41	41	61	94	140
395580	3	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.435	11.05	65	96	124	185
395590*	4	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.475	12.07	86	128	157	234
395600*	5	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.515	13.08	108	160	191	284

10 AWG MULTI-CONDUCTORS

395610*	2	10	19/.0234	0.112	2.84	0.030	0.76	0.045	1.14	0.455	11.56	67	100	128	190
395620*	3	10	19/.0234	0.112	2.84	0.030	0.76	0.045	1.14	0.485	12.32	101	150	172	256
395630*	4	10	19/.0234	0.112	2.84	0.030	0.76	0.060	1.52	0.560	14.22	135	200	234	348
395640*	5	10	19/.0234	0.112	2.84	0.030	0.76	0.060	1.52	0.615	15.62	167	249	284	423

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.



Phone: 888-593-3355
www.generalcable.com

2.4 kV – 35 kV Industrial Medium-Voltage Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
6050 [†]	DuraSheath [®] EPR/XL-CPE, Medium-Voltage Power, Nonshielded 2400 V, UL Type MV-90	Aug. 2011
6100 [†]	UniShield [®] EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Jan. 2011
6150	Uniblend [®] EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Mar. 2012
6155 [†]	Uniblend [®] LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Mar. 2012
6160 [†]	Aluminum Uniblend [®] LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Mar. 2012
6175	Uniblend [®] EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Mar. 2012
6180 [†]	GenFree [®] Uniblend [®] EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105/ST1, 133%/100% Ins. Levels, 115 Mils	Mar. 2012
6200	Copper Wire Shield TRXLPE/Copper Wire Shield/PVC, Medium-Voltage Power 5 kV, UL Type MV-105, 100% Ins. Level, 90 Mils	Jan. 2011
6250	Uniblend [®] EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 5 kV and 8 kV, UL Type MV-105 133%/100% Ins. Levels, 115 Mils, Three Conductor	Mar. 2012
6255 [†]	Uniblend [®] LF EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 5 kV and 8 kV, UL Type MV-105 133%/100% Ins. Levels, 115 Mils, Three Conductor	Mar. 2012
6275	Uniblend [®] EPR/Copper Tape Shield with Overall CPE Jacket Medium-Voltage Power, Shielded, 5 kV and 8 kV, UL Type MV-105 133%/100% Ins. Levels, 115 Mils, Three Conductor	Mar. 2012
6280	GenFree [®] Uniblend [®] EPR/Copper Tape Shield with Overall LSZH Jacket Medium-Voltage Power, Shielded, 5 kV and 8 kV, UL Type MV-105 133%/100% Ins. Levels, 115 Mils, Three Conductor	Mar. 2012

[†]Indicates these products are stocked by General Cable

2.4 kV – 35 kV Industrial Medium-Voltage Cables

SPECIFICATION NO.		PRODUCT DESCRIPTION	REVISION DATE
6300[†]	UniShield [®]	EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Jan. 2011
6350	Uniblend [®]	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Mar. 2012
6355[†]	Uniblend [®] LF	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Apr. 2011
6360[†]	Aluminum Uniblend [®] LF	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Apr. 2011
6375	Uniblend [®]	EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Apr. 2011
6380[†]	GenFree [®] Uniblend [®]	EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105/ST1, 133% Ins. Level, 220 Mils	Mar. 2012
6400	Copper Wire Shield	TRXLPE/Copper Wire Shield/PVC, Medium-Voltage Power 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils	Jan. 2011
6450	Uniblend [®]	EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 15 kV, UL Type MV-105 133% Ins. Level, 220 Mils, Three Conductor	Mar. 2012
6455[†]	Uniblend [®] LF	EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 15 kV, UL Type MV-105 133% Ins. Level, 220 Mils, Three Conductor	Mar. 2012
6475	Uniblend [®]	EPR/Copper Tape Shield with Overall CPE Jacket Medium-Voltage Power, Shielded, 15 kV, UL Type MV-105 133% Ins. Level, 220 Mils, Three Conductor	Mar. 2012

[†]Indicates these products are stocked by General Cable

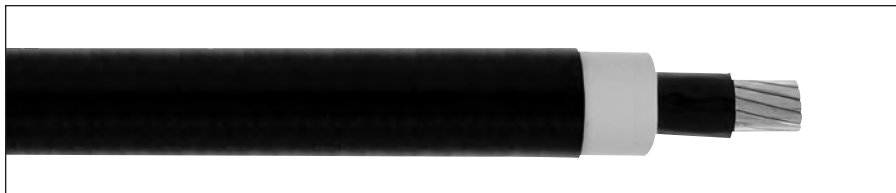
2.4 kV – 35 kV Industrial Medium-Voltage Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
6480	GenFree® Uniblend® EPR/Copper Tape Shield with Overall LSZH Jacket Medium-Voltage Power, Shielded, 15 kV, UL Type MV-105 133% Ins. Level, 220 Mils, Three Conductor	Mar. 2012
6500	UniShield® EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Jan. 2011
6550	Uniblend® EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Mar. 2012
6555[†]	Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Mar. 2012
6560	Aluminum Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Mar. 2012
6575	Uniblend® EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Mar. 2012
6580	GenFree® Uniblend® EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded 25 kV and 35 kV, UL Type MV-105/ST1, 133%/100% Ins. Levels, 345 Mils	Mar. 2012
6600	Uniblend® EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 25 kV and 35 kV, UL Type MV-105 133%/100% Ins. Levels, 345 Mils, Three Conductor	Mar. 2012
6605	Uniblend® LF EPR/Copper Tape Shield with Overall PVC Jacket Medium-Voltage Power, Shielded, 25 kV and 35 kV, UL Type MV-105 133%/100% Ins. Levels, 345 Mils, Three Conductor	Mar. 2012
6650	Uniblend® EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils	Apr. 2011
6655	Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils	Apr. 2011
6660	Aluminum Uniblend® LF EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils	Apr. 2011

[†]Indicates these products are stocked by General Cable

DuraSheath®

EPR/XL-CPE, Medium-Voltage Power, Nonshielded
2400 V, UL Type MV-90



Product Construction

Conductor:

- 8 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black jacket material

Jacket:

- Lead-Free Cross-linked Chlorinated Polyethylene (XL-CPE)

Print:

- GENERAL CABLE® (MI) SIZE (AWG or KCMIL)
COMPACT CU DURASHEATH® 2400 VOLTS
NONSHIELDED EP TYPE MV-90 WET OR DRY
FOR CT USE OIL RES I (UL) MONTH/YEAR OF
MFG SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE"

Options:

- Multi-conductor constructions
- Other constructions available upon request

Applications:

- Proven record of reliable performance through extensive use in these applications: pulp and paper mills, petrochemical plants, sewage treatment facilities, water treatment plants, steel mills, textile mills, utility power generating stations, scrubbers and other environmental protection systems, railroad and mining facilities
- For use in industrial and utility applications where ease of installation is a major concern because of limited space and exposure to personnel is minimal
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations

Features:

- Rated at 90°C
- Excellent heat and moisture resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical- and sunlight-resistant
- Simplification of splicing and terminating by elimination of need to handle cable shield
- Extra-tough, mechanically rugged composite insulation and jacket construction
- Meets cold bend test at -35°C

Compliances:

- National Electric Code (NEC)
- ICEA S-96-659/NEMA WC71
- UL 1072
- UL listed as Type MV-90 for use in accordance with NEC, UL File # E90501
- Sizes 1/0 AWG and larger are listed and marked "FOR CT USE" in accordance with NEC and also meet IEEE 383 (70,000 BTU/hr)
- Listed "oil-resistant I"
- Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		NOMINAL EXTRUDED STRAND SHIELD DIAMETER		NOMINAL INSULATION THICKNESS		NOMINAL INSULATION DIAMETER		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
		INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
2400 V, UL TYPE MV-90															
14901.410800*	8	0.14	3.56	0.15	3.81	0.125	3.18	0.41	10.41	0.58	14.73	51	76	196	292
14901.410600	6	0.17	4.32	0.19	4.83	0.125	3.18	0.44	11.18	0.62	15.75	81	121	241	359
14901.410400	4	0.22	5.59	0.23	5.84	0.125	3.18	0.49	12.45	0.66	16.76	129	192	308	458
14901.410200	2	0.27	6.86	0.29	7.37	0.125	3.18	0.55	13.97	0.72	18.29	205	305	408	607
14901.410100*	1	0.31	7.87	0.33	8.38	0.125	3.18	0.58	14.73	0.76	19.30	259	385	476	708
14901.415100	1/0	0.34	8.64	0.36	9.14	0.125	3.18	0.62	15.75	0.79	20.07	326	485	562	836
14901.415200	2/0	0.38	9.65	0.41	10.41	0.125	3.18	0.66	16.76	0.84	21.34	411	612	666	991
14901.415300*	3/0	0.43	10.92	0.45	11.43	0.125	3.18	0.71	18.03	0.92	23.37	518	771	823	1225
14901.415400	4/0	0.48	12.19	0.50	12.70	0.125	3.18	0.76	19.30	0.97	24.64	653	972	983	1463
14901.416000	250	0.53	13.46	0.55	13.97	0.140	3.56	0.84	21.34	1.08	27.43	772	1149	1183	1761
14901.416200	350	0.62	15.75	0.64	16.26	0.140	3.56	0.93	23.62	1.17	29.72	1080	1607	1545	2299
14901.416500	500	0.74	18.80	0.77	19.56	0.140	3.56	1.06	26.92	1.30	33.02	1544	2298	2077	3091
14901.417000	750	0.91	23.11	0.94	23.88	0.155	3.94	1.26	32.00	1.54	39.12	2316	3447	3040	4524
14901.417500*	1000	1.06	26.92	1.09	27.69	0.155	3.94	1.42	36.07	1.70	43.18	3086	4593	3913	5823

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

UniShield®

EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting shield layers

Composite Insulation Shield and Jacket:

- Six corrugated copper drain wires embedded in composite layers of semi-conducting thermoset copolymer and semi-conducting black flame-retardant Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNISHIELD® (INSULATION THICKNESS) EPR DRTP SEMI-CON CPE JKT TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Applications:

- Installed in a broad range of commercial, industrial and utility projects such as pulp and paper mills, petrochemical plants, steel mills, textile mills, water and sewage treatment facilities, environmental protection systems, railroads, mines and fossil fuel utility generating stations
- Suitable for use in wet or dry locations when installed in accordance with NEC



Applications (cont'd.):

- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Reduced conductor size and shield system provides the smallest premium medium-voltage shielded power cable with full insulation
- Smaller outside dimensions reduce the size of duct needed or increase the ampacity per duct
- All features contribute to faster and easier installation
- Superior cold bend and cold impact performance
- Stable and constant shield short circuit performance
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low dielectric loss
- Low moisture absorption
- Electrical stability under stress
- Chemical-resistant
- Sunlight-resistant
- Meets cold bend test at -55°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER (INCHES)	INSULATION DIAMETER (INCHES)		DRAIN WIRE SIZE (AWG)	NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)		
			MIN.	MAX.		DIAMETER		WEIGHT		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km		CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)
						INCHES	mm	LBS/1000 FT	kg/km							

5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS

19101.650200	2	0.27	0.510	0.590	20	0.71	18.03	404	601	225	335	165	165	2.5
19101.655100	1/0	0.34	0.580	0.655	20	0.78	19.81	555	825	346	515	215	215	2.5
19101.665200	2/0	0.38	0.620	0.695	19	0.83	21.08	666	990	436	649	255	245	3
19101.665300*	3/0	0.43	0.665	0.745	19	0.88	22.35	791	1177	562	808	290	275	3
19101.665400	4/0	0.48	0.720	0.795	19	0.93	23.62	951	1415	678	1010	330	315	3
19101.676000	250	0.53	0.770	0.850	18	1.01	25.65	1112	1655	804	1196	365	345	3.5
19101.676200	350	0.62	0.870	0.945	18	1.11	28.19	1463	2176	1113	1656	440	415	3.5
19101.686500	500	0.74	0.990	1.065	17	1.24	31.50	2003	2980	1585	2358	535	500	4
19101.687000	750	0.91	1.170	1.250	17	1.44	36.57	2875	4278	2357	3507	655	610	5
19101.667500*	1000	1.06	1.320	1.400	16	1.61	40.89	3746	5574	3138	4669	755	690	5

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

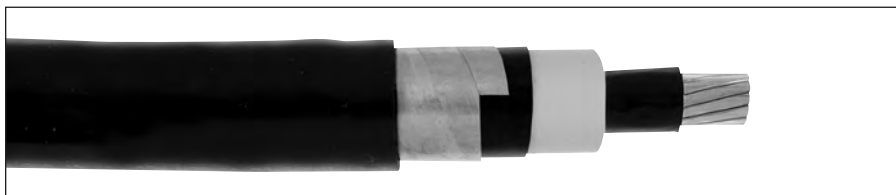
(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all UniShield® constructions.

Uniblend®

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 MILS



Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- Other jacket options available upon request
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)
		INCHES	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)		
							INCHES	mm	LBS/1000 FT	kg/km						

5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS

17001.120600*	6	0.17	0.415	0.490	0.060	1.52	0.65	16.51	295	439	126	188	93	97	2
17001.120400*	4	0.22	0.455	0.535	0.060	1.52	0.70	17.15	365	543	178	265	120	125	2.5
17001.120200*	2	0.27	0.510	0.590	0.060	1.52	0.76	19.05	471	701	259	385	165	165	2.5
17001.120100*	1	0.31	0.545	0.620	0.060	1.52	0.79	20.07	539	802	315	468	190	185	2.5
17001.125100*	1/0	0.34	0.580	0.655	0.060	1.52	0.82	21.08	623	927	386	575	215	215	3
17001.125200*	2/0	0.38	0.620	0.695	0.060	1.52	0.86	22.10	728	1083	474	706	255	245	3
17001.125300*	3/0	0.43	0.665	0.745	0.080	2.03	0.94	24.38	886	1318	585	871	290	275	3
17001.135400*	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.65	1053	1567	725	1080	330	315	3
17001.136000*	250	0.53	0.770	0.850	0.080	2.03	1.05	27.18	1199	1784	849	1263	365	345	3.5
17001.136200*	350	0.62	0.870	0.945	0.080	2.03	1.14	29.72	1559	2320	1165	1735	440	415	3.5
17001.136500*	500	0.74	0.990	1.065	0.080	2.03	1.27	33.53	2088	3107	1639	2439	535	500	4
17001.137000*	750	0.91	1.170	1.250	0.080	2.03	1.45	38.35	2962	4407	2427	3611	655	610	5
17001.637500*	1000	1.06	1.320	1.400	0.080	2.03	1.60	42.42	3815	5677	3210	4777	755	690	5

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355
www.generalcable.com

Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 MILS



Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

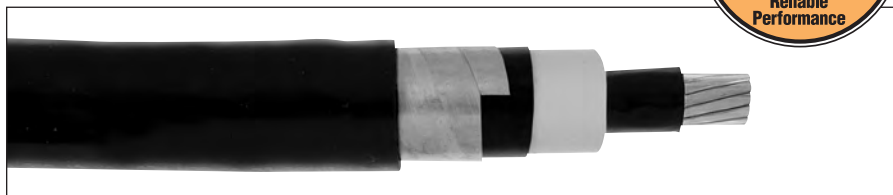
Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610



Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS INCHES	NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)
			MIN.	MAX.		DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
						INCHES	mm	LBS/1000 FT	kg/km					

5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS

17001.120605	6	0.17	0.415	0.490	0.060	1.52	0.65	16.51	295	439	126	188	93	97	2
17001.120405	4	0.22	0.455	0.535	0.060	1.52	0.70	17.15	365	543	178	265	120	125	2.5
17001.120205	2	0.27	0.510	0.590	0.060	1.52	0.76	19.05	471	701	259	385	165	165	2.5
17001.120105*	1	0.31	0.545	0.620	0.060	1.52	0.79	20.07	539	802	315	468	190	185	2.5
17001.125105	1/0	0.34	0.580	0.655	0.060	1.52	0.82	21.08	623	927	386	575	215	215	3
17001.125205	2/0	0.38	0.620	0.695	0.060	1.52	0.86	22.10	728	1083	474	706	255	245	3
17001.125305*	3/0	0.43	0.665	0.745	0.080	2.03	0.94	24.38	886	1318	585	871	290	275	3
17001.135405	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.65	1053	1567	725	1080	330	315	3
17001.136005	250	0.53	0.770	0.850	0.080	2.03	1.05	27.18	1199	1784	849	1263	365	345	3.5
17001.136205	350	0.62	0.870	0.945	0.080	2.03	1.14	29.72	1559	2320	1165	1735	440	415	3.5
17001.136505	500	0.74	0.990	1.065	0.080	2.03	1.27	33.53	2088	3107	1639	2439	535	500	4
17001.137005	750	0.91	1.170	1.250	0.080	2.03	1.45	38.35	2962	4407	2427	3611	655	610	5
17001.637505	1000	1.06	1.320	1.400	0.080	2.03	1.60	42.42	3815	5677	3210	4777	755	690	5

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

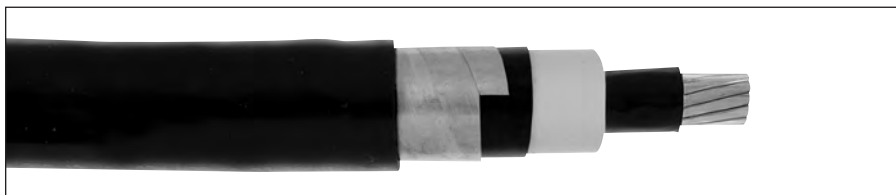


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Aluminum Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils



Features (cont'd.):

- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil 1350 aluminum compact Class B STRANDFILL® blocked conductor

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT AL UNIBLEND® LF PVC JKT (INSULATION

Print (cont'd.):

THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Meets longitudinal water penetration resistance
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)	
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)
									INCHES	mm	LBS/1000 FT	kg/km							

5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS

17001.120608*	6	0.17	0.415	0.490	0.060	1.52	0.65	16.51	239	356	25	37	45	67	72	75	2
17001.120408*	4	0.22	0.455	0.535	0.060	1.52	0.70	17.15	275	409	39	58	49	73	94	98	2.5
17001.120208*	2	0.27	0.510	0.590	0.060	1.52	0.76	19.05	328	488	62	92	54	81	130	130	2.5
17001.120108*	1	0.31	0.545	0.620	0.060	1.52	0.79	20.07	359	534	78	116	57	84	150	145	2.5
17001.125108*	1/0	0.34	0.580	0.655	0.060	1.52	0.82	21.08	396	590	99	147	60	90	170	165	3
17001.125208*	2/0	0.38	0.620	0.695	0.060	1.52	0.86	22.10	442	658	125	186	63	94	200	190	3
17001.125308*	3/0	0.43	0.665	0.745	0.080	2.03	0.94	24.38	526	783	158	235	67	100	225	215	3
17001.135408*	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.65	599	891	199	296	72	107	260	245	3
17001.136008*	250	0.53	0.770	0.850	0.080	2.03	1.05	27.18	661	984	234	348	77	115	290	270	3.5
17001.136208	350	0.62	0.870	0.945	0.080	2.03	1.14	29.72	807	1201	329	490	84	125	350	330	3.5
17001.136508	500	0.74	0.990	1.065	0.080	2.03	1.27	33.53	1012	1506	468	696	95	141	430	400	4
17001.137008	750	0.91	1.170	1.250	0.080	2.03	1.45	38.35	1349	2008	703	1046	111	165	540	490	5
17001.137508	1000	1.06	1.320	1.400	0.080	2.03	1.60	42.42	1664	2476	937	1394	122	182	640	565	5

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(74) of the NEC for triplexed or three single conductor aluminum cables in isolated conduit in air based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(78) of the NEC for triplexed or three single conductor aluminum cables in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355
www.generalcable.com

Uniblend®

EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

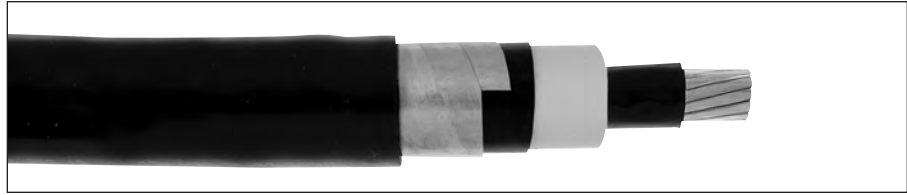
Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® CPE JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- Other jacket options available upon request
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610



Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- **Optional Flame Tests:**
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)	
		INCHES	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)
							IN	mm	LBS/1000 FT	kg/km							
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS																	
17101.120600*	6	0.17	0.415	0.490	0.060	1.52	0.65	16.51	293	436	126	188	93	97	2		
17101.120400*	4	0.22	0.455	0.535	0.060	1.52	0.70	17.15	363	540	178	265	120	125	2.5		
17101.120200*	2	0.27	0.510	0.590	0.060	1.52	0.76	19.05	469	698	259	385	165	165	2.5		
17101.120100*	1	0.31	0.545	0.620	0.060	1.52	0.79	20.07	537	799	315	468	190	185	2.5		
17101.125100*	1/0	0.34	0.580	0.655	0.060	1.52	0.82	21.08	621	924	386	575	215	215	3		
17101.125200*	2/0	0.38	0.620	0.695	0.060	1.52	0.86	22.10	726	1080	474	706	255	245	3		
17101.125300*	3/0	0.43	0.665	0.745	0.080	2.03	0.94	24.38	883	1314	585	871	290	275	3		
17101.135400*	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.65	1049	1561	725	1080	330	315	3		
17101.136000*	250	0.53	0.770	0.850	0.080	2.03	1.05	27.18	1195	1778	849	1263	365	345	3.5		
17101.136200*	350	0.62	0.870	0.945	0.080	2.03	1.14	29.72	1555	2314	1165	1735	440	415	3.5		
17101.136500*	500	0.74	0.990	1.065	0.080	2.03	1.27	33.53	2083	3100	1639	2439	535	500	4		
17101.137000*	750	0.91	1.170	1.250	0.080	2.03	1.45	38.35	2981	4436	2427	3611	655	610	5		
17101.137500*	1000	1.06	1.320	1.400	0.080	2.03	1.60	42.42	3808	5666	3210	4777	755	690	5		

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

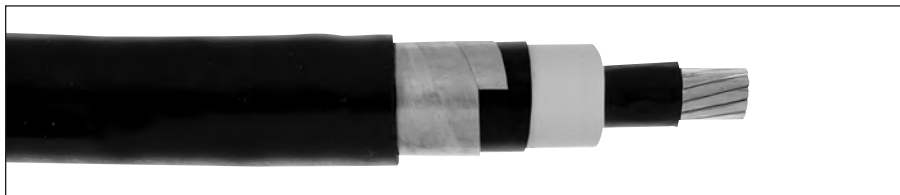


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GenFree® Uniblend®

EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded
5 kV and 8 kV, UL Type MV-105/ST1, 133%/100% Ins. Levels, 115 MILS



Features (cont'd.):

- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- UL 1685 Vertical Flame and Smoke Release Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Overall Jacket:

- Lead-free, moisture- and sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU GENFREE® UNIBLEND® LSZH JKT (INSULATION

Print (cont'd.):

THICKNESS) EPR TYPE MV-105/ST1 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)
		INCHES	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)		
							INCHES	mm	LBS/1000 FT	kg/km						
5 kV AND 8 kV, UL TYPE MV-105/ST1, 133%/100% INS. LEVELS, 115 MILS																
17201.120600*	6	0.17	0.415	0.490	0.060	1.52	0.65	16.51	295	439	126	188	93	97	2	
17201.120400*	4	0.22	0.455	0.535	0.060	1.52	0.70	17.15	365	543	178	265	120	125	2.5	
17201.120200	2	0.27	0.510	0.590	0.060	1.52	0.76	19.05	471	701	259	385	165	165	2.5	
17201.120100*	1	0.31	0.545	0.620	0.060	1.52	0.79	20.07	539	802	315	468	190	185	2.5	
17201.125100	1/0	0.34	0.580	0.655	0.060	1.52	0.82	21.08	623	927	386	575	215	215	3	
17201.125200	2/0	0.38	0.620	0.695	0.060	1.52	0.86	22.10	728	1083	474	706	255	245	3	
17201.125300*	3/0	0.43	0.665	0.745	0.080	2.03	0.94	24.38	886	1318	585	871	290	275	3	
17201.135400	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.65	1053	1567	725	1080	330	315	3	
17201.136000*	250	0.53	0.770	0.850	0.080	2.03	1.05	27.18	1199	1784	849	1263	365	345	3.5	
17201.136200	350	0.62	0.870	0.945	0.080	2.03	1.14	29.72	1559	2320	1165	1735	440	415	3.5	
17201.136500	500	0.74	0.990	1.065	0.080	2.03	1.27	33.53	2088	3107	1639	2439	535	500	4	
17201.137000	750	0.91	1.170	1.250	0.080	2.03	1.45	38.35	2962	4407	2427	3611	655	610	5	
17201.637500*	1000	1.06	1.320	1.400	0.080	2.03	1.60	42.42	3815	5677	3210	4777	755	690	5	

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(7) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(7) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355
www.generalcable.com

Copper Wire Shield

TRXLPE/Copper Wire Shield/PVC, Medium-Voltage Power
5 kV, UL Type MV-105, 100% Ins. Level, 90 Mils

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper Class B compressed strand in accordance with ASTM B3 and B8

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress control layer over conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TRXLPE)

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

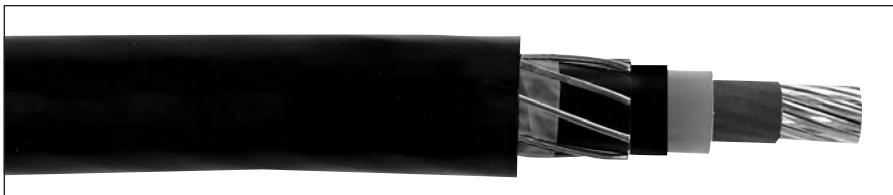
- A concentric serve of 24 AWG annealed solid bare copper wires over which shall be applied a lapped non-metallic tape

Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) CU (INSULATION THICKNESS) TRXLPE TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES (UL) SEQUENTIAL FOOTAGE MARK



Options:

- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC and in accordance with UL 1685 (70,000 BTU/hr)
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

Applications:

- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations where cost effectiveness is a factor
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Triple tandem extrusion of the strand shield, insulation and insulation shield provides a virtually perfect cable core
- Excellent resistance to electro-chemical treeing, heat, moisture and a wide variety of industrial chemicals

Features (cont'd.):

- PVC jacket provides mechanical protection of the shielding system during installation, as well as protection from many industrial chemicals
- Sunlight-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8
- UL 1072
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	DIAMETER		WEIGHT		CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)		
									INCHES	mm	LBS/1000 FT	kg/km			LBS/1000 FT	
5 kV, UL TYPE MV-105, 100% INS. LEVELS, 90 MILS																
17241.010600*	6	0.18	0.370	0.445	0.060	1.52	0.67	17.02	250	372	93	138	84	92	2.5	
17241.010400*	4	0.23	0.420	0.495	0.060	1.52	0.72	18.29	317	472	141	210	110	120	2.5	
17241.010200*	2	0.29	0.475	0.555	0.060	1.52	0.77	19.55	420	625	217	323	145	155	2.5	
17241.015100*	1/0	0.37	0.555	0.630	0.060	1.52	0.85	21.59	580	863	338	503	200	210	3	
17241.015200*	2/0	0.41	0.600	0.675	0.060	1.52	0.89	22.61	670	997	427	635	225	235	3	
17241.015400*	4/0	0.52	0.705	0.780	0.080	2.03	1.04	26.42	1000	1488	669	996	305	310	3.5	
17241.016000*	250	0.56	0.760	0.835	0.080	2.03	1.10	28.19	1155	1719	788	1173	355	345	3.5	
17241.016200*	350	0.67	0.865	0.940	0.080	2.03	1.20	30.48	1505	2240	1097	1632	430	415	4	
17241.016500*	500	0.80	0.990	1.070	0.080	2.03	1.36	34.54	2060	3066	1563	2325	530	505	5	
17241.017000*	750	0.97	1.180	1.255	0.080	2.03	1.53	38.86	2868	4268	2340	3482	665	630	5	
17241.017500*	1000	1.12	1.325	1.405	0.080	2.03	1.66	42.16	3684	5482	3113	4632	770	720	6	

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.

Uniblend®

EPR/Copper Tape Shield with Overall PVC Jacket, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils, Three Conductor



Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

Overall Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

Options:

- Other jacket options available upon request
- Jacketed singles
- UniShield® singles
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY	
			MIN.	MAX.		INCHES	mm	DIAMETER	WEIGHT	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR															
15493.400600*	6	0.17	0.415	0.490	6	0.080	2.03	1.29	32.77	939	1397	460	685	92	95
15493.400400*	4	0.22	0.455	0.535	6	0.080	2.03	1.39	35.31	1158	1723	616	917	120	125
15493.400200*	2	0.27	0.510	0.590	6	0.080	2.03	1.51	38.35	1511	2249	860	1279	165	160
15493.405100*	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2030	3021	1290	1919	215	210
15493.405200*	2/0	0.38	0.620	0.695	4	0.080	2.03	1.82	46.23	2449	3645	1556	2315	245	235
15493.405400*	4/0	0.48	0.720	0.795	3	0.110	2.79	2.07	52.58	3438	5116	2344	3488	320	305
15493.406000*	250	0.53	0.770	0.850	2	0.110	2.79	2.15	54.61	3968	5904	2759	4105	350	335
15493.406200*	350	0.62	0.870	0.945	2	0.110	2.79	2.36	59.94	5009	7454	3713	5525	430	400
15493.406500*	500	0.74	0.990	1.065	1	0.110	2.79	2.64	67.06	6793	10065	5191	7724	525	485
15493.407000*	750	0.91	1.170	1.250	1/0	0.140	3.56	3.14	79.76	9833	14633	7629	11352	635	585
15493.407500*	1000	1.06	1.320	1.400	2/0	0.140	3.56	3.48	88.39	12601	18753	10070	14985	725	660

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355
www.generalcable.com

Uniblend® LF EPR/Copper Tape Shield with Overall PVC Jacket

Medium-Voltage Power, Shielded, 5 kV and 8 kV, UL Type MV-105

133%/100% Ins. Levels, 115 Mils, Three Conductor



Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

Overall Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK



Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY	
			MIN.	MAX.		INCHES	mm	DIAMETER	WEIGHT		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR															
15493.400605	6	0.17	0.415	0.490	6	0.080	2.03	1.29	32.77	939	1397	460	685	92	95
15493.400405	4	0.22	0.455	0.535	6	0.080	2.03	1.39	35.31	1158	1723	616	917	120	125
15493.400205	2	0.27	0.510	0.590	6	0.080	2.03	1.51	38.35	1511	2249	860	1279	165	160
15493.405105	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2030	3021	1290	1919	215	210
15493.405205	2/0	0.38	0.620	0.695	4	0.080	2.03	1.82	46.23	2449	3645	1556	2315	245	235
15493.405405	4/0	0.48	0.720	0.795	3	0.110	2.79	2.07	52.58	3438	5116	2344	3488	320	305
15493.406005*	250	0.53	0.770	0.850	2	0.110	2.79	2.15	54.61	3968	5904	2759	4105	350	335
15493.406205	350	0.62	0.870	0.945	2	0.110	2.79	2.36	59.94	5009	7454	3713	5525	430	400
15493.406505	500	0.74	0.990	1.065	1	0.110	2.79	2.64	67.06	6793	10065	5191	7724	525	485
15493.407005*	750	0.91	1.170	1.250	1/0	0.140	3.56	3.14	79.76	9833	14633	7629	11352	635	585
15493.407505*	1000	1.06	1.320	1.400	2/0	0.140	3.56	3.48	88.39	12601	18753	10070	14985	725	660

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

Uniblend®

EPR/Copper Tape Shield with Overall CPE Jacket, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils, Three Conductor



Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® CPE JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

Options:

- Other jacket options available upon request
- Jacketed singles
- UniShield® singles
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY				
		INCHES	MIN.	MAX.	INCHES		mm	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)
										INCHES	mm	LBS/1000 FT	kg/km						
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR																			
15593.400600*	6	0.17	0.415	0.490	6	0.080	2.03	1.29	32.77	939	1397	460	685	92	95				
15593.400400*	4	0.22	0.455	0.535	6	0.080	2.03	1.39	35.31	1158	1723	616	917	120	125				
15593.400200*	2	0.27	0.510	0.590	6	0.080	2.03	1.51	38.35	1511	2249	860	1279	165	160				
15593.405100*	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2030	3021	1290	1919	215	210				
15593.405200*	2/0	0.38	0.620	0.695	4	0.080	2.03	1.82	46.23	2449	3645	1556	2315	245	235				
15593.405400*	4/0	0.48	0.720	0.795	3	0.110	2.79	2.07	52.58	3438	5116	2344	3488	320	305				
15593.406000*	250	0.53	0.770	0.850	2	0.110	2.79	2.15	54.61	3968	5904	2759	4105	350	335				
15593.406200*	350	0.62	0.870	0.945	2	0.110	2.79	2.36	59.94	5009	7454	3713	5525	430	400				
15593.406500*	500	0.74	0.990	1.065	1	0.110	2.79	2.64	67.06	6793	10065	5191	7724	525	485				
15593.407000*	750	0.91	1.170	1.250	1/0	0.140	3.56	3.14	79.76	9833	14633	7629	11352	635	585				
15593.407500*	1000	1.06	1.320	1.400	2/0	0.140	3.56	3.48	88.39	12601	18753	10070	14985	725	660				

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

Note: a) Sizes smaller than 4/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355
www.generalcable.com

GenFree® Uniblend®

EPR/Copper Tape Shield with Overall LSZH Jacket, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils, Three Conductor

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

Overall Jacket:

- Lead-free, moisture- and sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU GENFREE® UNIBLEND® LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK



Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC. UL File # E90501
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS		NOMINAL CABLE				AMPACITY		
		INCHES	MIN.	MAX.	INCHES		mm	DIAMETER		WEIGHT		COPPER WEIGHT		CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)
								INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km		
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR															
15693.400600*	6	0.17	0.415	0.490	6	0.080	2.03	1.29	32.77	939	1397	460	685	92	95
15693.400400*	4	0.22	0.455	0.535	6	0.080	2.03	1.39	35.31	1158	1723	616	917	120	125
15693.400200*	2	0.27	0.510	0.590	6	0.080	2.03	1.51	38.35	1511	2249	860	1279	165	160
15693.405100*	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2030	3021	1290	1919	215	210
15693.405200*	2/0	0.38	0.620	0.695	4	0.080	2.03	1.82	46.23	2449	3645	1556	2315	245	235
15693.405400*	4/0	0.48	0.720	0.795	3	0.110	2.79	2.07	52.58	3438	5116	2344	3488	320	305
15693.406000*	250	0.53	0.770	0.850	2	0.110	2.79	2.15	54.61	3968	5904	2759	4105	350	335
15693.406200*	350	0.62	0.870	0.945	2	0.110	2.79	2.36	59.94	5009	7454	3713	5525	430	400
15693.406500*	500	0.74	0.990	1.065	1	0.110	2.79	2.64	67.06	6793	10065	5191	7724	525	485
15693.407000*	750	0.91	1.170	1.250	1/0	0.140	3.56	3.14	79.76	9833	14633	7629	11352	635	585
15693.407500*	1000	1.06	1.320	1.400	2/0	0.140	3.56	3.48	88.39	12601	18753	10070	14985	725	660

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

UniShield®

EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils



Features (cont'd.):

- Flexibility for easy handling
- High dielectric strength
- Low dielectric loss
- Low moisture absorption
- Electrical stability under stress
- Chemical-resistant
- Sunlight-resistant
- Meets cold bend test at -55°C

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting shield layers

Composite Insulation Shield and Jacket:

- Six corrugated copper drain wires embedded in composite layers of semi-conducting thermoset copolymer and semi-conducting black flame-retardant Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/ YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNISHIELD® (INSULATION THICKNESS) EPR DRTP SEMI-CON CPE JKT TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Applications:

- Installed in a broad range of commercial, industrial and utility projects such as pulp and paper mills, petrochemical plants, steel mills, textile mills, water and sewage treatment facilities, environmental protection systems, railroads, mines and fossil fuel utility generating stations
- Suitable for use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Reduced conductor size and shield system provides the smallest premium medium-voltage shielded power cable with full insulation
- Smaller outside dimensions reduce the size of duct needed or increase the ampacity per duct
- All features contribute to faster and easier installation
- Superior cold bend and cold impact performance
- Stable and constant shield short circuit performance
- Excellent heat and moisture resistance
- Outstanding corona resistance

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		DRAIN WIRE SIZE (AWG)	NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)		
			MIN.	MAX.		DIAMETER		WEIGHT		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)	TRAY (3)
						INCHES	mm	LBS/1000 FT	kg/km								
15 kV[‡], UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																	
19161.660200	2	0.27	0.710	0.800	19	0.93	23.88	555	835	230	342	165	165	-	3		
19161.675100	1/0	0.34	0.780	0.865	18	1.01	25.91	734	1102	358	533	215	215	220	3.5		
19161.675200	2/0	0.38	0.820	0.905	18	1.05	27.18	844	1259	443	659	255	245	250	3.5		
19161.665300*	3/0	0.43	0.865	0.955	18	1.10	28.45	978	1458	550	818	290	275	290	3.5		
19161.675400	4/0	0.48	0.920	1.005	18	1.16	29.72	1151	1716	685	1019	330	315	335	4		
19161.686000	250	0.53	0.970	1.060	17	1.23	31.50	1325	1984	813	1210	365	345	370	4		
19161.686200	350	0.62	1.070	1.155	17	1.33	33.78	1691	2530	1122	1669	440	415	460	5		
19161.686500	500	0.74	1.190	1.275	17	1.46	37.08	2238	3344	1585	2358	535	500	575	5		
19161.697000	750	0.91	1.370	1.460	16	1.67	42.42	3174	4739	2368	3523	655	610	745	6		
19161.307500*	1000	1.06	1.520	1.610	16	1.86	47.24	4122	6133	3138	4669	755	690	890	6		

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(7) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

†100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all UniShield® constructions.



Uniblend®

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
15 kV, UL Type MV-105, 133% Ins. Level, 220 MILS

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

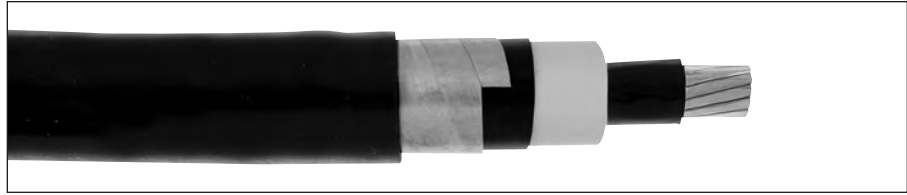
Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- Other jacket options available upon request
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 100% insulation level



Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- **Optional Flame Tests:**
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
		INCHES	MM	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
								INCHES	mm	LBS/1000 FT	kg/km						

15 kV, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS

17031.130200*	2	0.27	0.710	0.800	0.080	2.03	0.99	25.14	658	979	276	411	165	165	-	3
17031.130100*	1	0.31	0.745	0.830	0.080	2.03	1.02	25.91	733	1090	332	494	190	185	-	3.5
17031.135100*	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	825	1228	403	600	215	215	220	3.5
17031.135200*	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	938	1396	492	732	255	245	250	3.5
17031.135300*	3/0	0.43	0.865	0.955	0.080	2.03	1.14	28.95	1078	1604	603	897	290	275	290	3.5
17031.135400*	4/0	0.48	0.920	1.005	0.080	2.03	1.21	30.73	1261	1876	743	1105	330	315	335	3.5
17031.136000*	250	0.53	0.970	1.060	0.080	2.03	1.25	31.75	1407	2093	866	1289	365	345	370	4
17031.136200*	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1783	2653	1184	1761	440	415	460	5
17031.136500*	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2331	3468	1657	2466	535	500	575	5
17031.137000*	750	0.91	1.370	1.460	0.080	2.03	1.65	41.91	3234	4812	2445	3638	655	610	745	6
17031.137500*	1000	1.06	1.520	1.610	0.110	2.79	1.86	47.24	4219	6278	3228	4803	755	690	890	6

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(7)3 of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(7)7 of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(6)9. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

†100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355
www.generalcable.com



Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils



Features (cont'd.):

- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION

Print (cont'd.):

THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 100% insulation level

Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)	
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)		TRAY (3)
									INCHES	mm	LBS/1000 FT	kg/km						
15 kV[‡], UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																		
17031.130205	2	0.27	0.710	0.800	0.080	2.03	0.99	25.14	658	979	276	411	165	165	-	3		
17031.130105*	1	0.31	0.745	0.830	0.080	2.03	1.02	25.91	733	1090	332	494	190	185	-	3.5		
17031.135105	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	825	1228	403	600	215	215	220	3.5		
17031.135205	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	938	1396	492	732	255	245	250	3.5		
17031.135305*	3/0	0.43	0.865	0.955	0.080	2.03	1.14	28.95	1078	1604	603	897	290	275	290	3.5		
17031.135405	4/0	0.48	0.920	1.005	0.080	2.03	1.21	30.73	1261	1876	743	1105	330	315	335	3.5		
17031.136005	250	0.53	0.970	1.060	0.080	2.03	1.25	31.75	1407	2093	866	1289	365	345	370	4		
17031.136205	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1783	2653	1184	1761	440	415	460	5		
17031.136505	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2331	3468	1657	2466	535	500	575	5		
17031.137005	750	0.91	1.370	1.460	0.080	2.03	1.65	41.91	3234	4812	2445	3638	655	610	745	6		
17031.137505	1000	1.06	1.520	1.610	0.110	2.79	1.86	47.24	4219	6278	3228	4803	755	690	890	6		

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

‡100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Aluminum Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils



Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil 1350 aluminum compact Class B STRANDFILL® blocked conductor

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

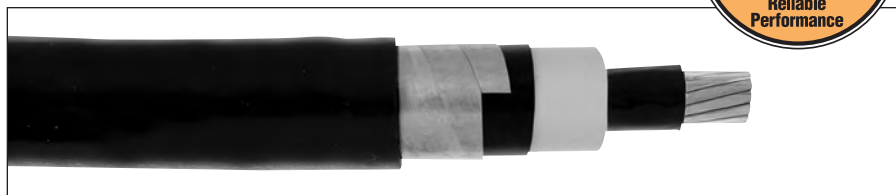
Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT AL UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- 100% insulation level



Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Meets longitudinal water penetration resistance
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			MIN.	MAX.	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	

15 kV[¥], UL TYPE MV-105, 133% INS. LEVEL, 220 MILS

17031.130208*	2	0.27	0.710	0.800	0.080	2.03	0.99	25.14	515	767	62	92	71	106	130	130	—	3
17031.130108*	1	0.31	0.745	0.830	0.080	2.03	1.02	25.91	553	822	78	116	74	110	150	145	—	3.5
17031.135108*	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	598	890	99	147	77	115	170	165	170	3.5
17031.135208*	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	652	970	125	186	81	121	200	190	195	3.5
17031.135308*	3/0	0.43	0.865	0.955	0.080	2.03	1.14	28.95	718	1068	158	235	85	126	225	215	225	3.5
17031.135408*	4/0	0.48	0.920	1.005	0.080	2.03	1.21	30.73	807	1201	199	296	90	134	260	245	265	3.5
17031.136008*	250	0.53	0.970	1.060	0.080	2.03	1.25	31.75	869	1293	234	348	94	140	290	270	290	4
17031.136208	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1031	1534	329	490	103	153	350	330	360	5
17031.136508	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	1255	1868	468	696	113	168	430	400	450	5
17031.137008	750	0.91	1.370	1.460	0.080	2.03	1.65	41.91	1621	2412	703	1046	129	192	540	490	585	6
17031.137508	1000	1.06	1.520	1.610	0.110	2.79	1.86	47.24	2068	3078	937	1394	140	208	640	565	705	6

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(74) of the NEC for triplexed or three single conductor aluminum cables in isolated conduit in air based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(78) of the NEC for triplexed or three single conductor aluminum cables in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(70). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

¥100% insulation level is available upon request.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

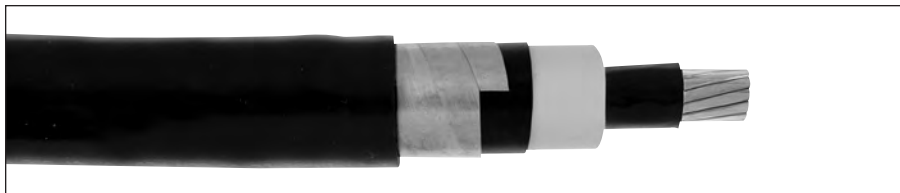


Phone: 888-593-3355
www.generalcable.com



Uniblend®

EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils



Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU

Print (cont'd.):

UNIBLEND® CPE JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- Other jacket options available upon request
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 100% insulation level

Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
							INCHES	mm	LBS/1000 FT	kg/km						
15 kV, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																
17131.130200*	2	0.27	0.710	0.800	0.080	2.03	0.99	25.14	655	975	276	411	165	165	-	3
17131.130100*	1	0.31	0.745	0.830	0.080	2.03	1.02	25.91	730	1086	332	494	190	185	-	3.5
17131.135100*	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	820	1220	403	600	215	215	220	3.5
17131.135200*	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	933	1388	492	732	255	245	250	3.5
17131.135300*	3/0	0.43	0.865	0.955	0.080	2.03	1.14	28.95	1072	1595	603	897	290	275	290	3.5
17131.135400*	4/0	0.48	0.920	1.005	0.080	2.03	1.21	30.73	1248	1857	743	1105	330	315	335	3.5
17131.136000*	250	0.53	0.970	1.060	0.080	2.03	1.25	31.75	1402	2086	866	1289	365	345	370	4
17131.136200*	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1778	2646	1184	1761	440	415	460	5
17131.136500*	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2325	3460	1657	2466	535	500	575	5
17131.137000*	750	0.91	1.370	1.460	0.080	2.03	1.65	41.91	3250	4836	2445	3638	655	610	745	6
17131.637500*	1000	1.06	1.520	1.610	0.110	2.79	1.86	47.24	4209	6263	3228	4803	755	690	890	6

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

‡100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



GenFree® Uniblend®

EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded
15 kV, UL Type MV-105/ST1, 133% Ins. Level, 220 Mils

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Overall Jacket:

- Lead-free, moisture- and sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

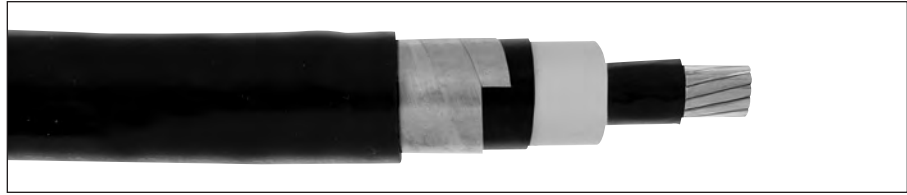
Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU GENFREE® UNIBLEND® LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105/ST1 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 100% insulation level



Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC. UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- UL 1685 Vertical Flame and Smoke Release Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
							INCHES	mm	LBS/1000 FT	kg/km						
15 kV*, UL TYPE MV-105/ST1, 133% INS. LEVEL, 220 MILS																
17231.130200	2	0.27	0.710	0.800	0.080	2.03	0.99	25.14	658	979	276	411	165	165	-	3
17231.130100*	1	0.31	0.745	0.830	0.080	2.03	1.02	25.91	733	1090	332	494	190	185	-	3.5
17231.135100*	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	825	1228	403	600	215	215	220	3.5
17231.135200	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	938	1396	492	732	255	245	250	3.5
17231.135300*	3/0	0.43	0.865	0.955	0.080	2.03	1.14	28.95	1078	1604	603	897	290	275	290	3.5
17231.135400	4/0	0.48	0.920	1.005	0.080	2.03	1.21	30.73	1261	1876	743	1105	330	315	335	3.5
17231.136000*	250	0.53	0.970	1.060	0.080	2.03	1.25	31.75	1407	2093	866	1289	365	345	370	4
17231.136200	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1783	2653	1184	1761	440	415	460	5
17231.136500	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2331	3468	1657	2466	535	500	575	5
17231.137000	750	0.91	1.370	1.460	0.080	2.03	1.65	41.91	3234	4812	2445	3638	655	610	745	6
17231.137500*	1000	1.06	1.520	1.610	0.110	2.79	1.86	47.24	4219	6278	3228	4803	755	690	890	6

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

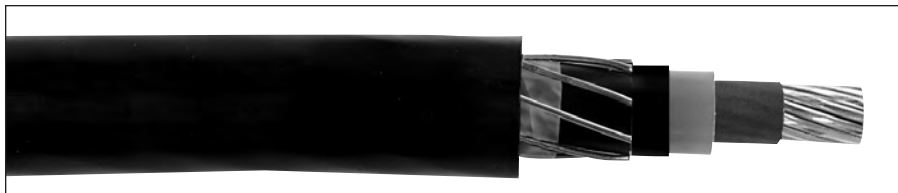
*100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

Copper Wire Shield

TRXLPE/Copper Wire Shield/PVC, Medium-Voltage Power
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils



Features:

- Rated at 105°C
- Triple tandem extrusion of the strand shield, insulation and insulation shield provides a virtually perfect cable core
- Excellent resistance to electro-chemical treeing, heat, moisture and a wide variety of industrial chemicals
- PVC jacket provides mechanical protection of the shielding system during installation as well as protection from many industrial chemicals
- Sunlight-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL 1072
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper, Class B compressed strand in accordance with ASTM B3 and B8

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TRXLPE)

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- A concentric serve of 24 AWG annealed solid bare copper wires over which shall be applied a lapped non-metallic tape

Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) CU (INSULATION THICKNESS) TRXLPE TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES (UL) SEQUENTIAL FOOTAGE MARK

Options:

- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC and in accordance with UL 1685 (70,000 BTU/hr)
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

Applications:

- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations where cost effectiveness is a factor
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			MIN.	MAX.	INCHES	mm	DIAMETER	WEIGHT	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
15 kV[‡], UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																
17245.010200*	2	0.29	0.725	0.815	0.080	2.03	1.05	26.67	600	893	221	329	165	165	-	3.5
17245.010100*	1	0.33	0.765	0.855	0.080	2.03	1.09	27.68	671	998	274	408	190	185	-	3.5
17245.015100*	1/0	0.37	0.805	0.895	0.080	2.03	1.13	28.27	761	1132	342	509	215	215	220	3.5
17245.015200*	2/0	0.41	0.850	0.935	0.080	2.03	1.18	29.97	871	1296	427	635	255	245	250	4
17245.015400*	4/0	0.52	0.955	1.045	0.080	2.03	1.29	32.76	1179	1754	672	1000	330	315	335	4
17245.016000*	250	0.56	1.010	1.100	0.080	2.03	1.34	34.03	1327	1974	791	1177	365	345	370	5
17245.016200*	350	0.67	1.115	1.200	0.080	2.03	1.45	36.83	1700	2529	1105	1644	440	415	460	5
17245.016500*	500	0.80	1.240	1.330	0.080	2.03	1.57	39.87	2236	3327	1568	2333	535	500	575	5
17245.017000*	750	0.97	1.430	1.520	0.110	2.79	1.82	46.23	3225	4798	2344	3488	655	610	745	6
17245.017500*	1000	1.12	1.575	1.670	0.110	2.79	1.97	50.04	4090	6086	3114	4634	755	690	890	6

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

‡100% insulation level is available upon request

Note: The NESCLightning bolt symbol is on all Uniblend® constructions.



Uniblend®

EPR/Copper Tape Shield with Overall PVC Jacket, Medium-Voltage Power, Shielded
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils, Three Conductor

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

Overall Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK



Options:

- Other jacket options available upon request
- Jacketed singles
- UniShield® singles
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., tagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS INCHES	NOMINAL CABLE				COPPER WEIGHT		AMPACITY			
			MIN.	MAX.			DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR																
15493.440200*	2	0.27	0.710	0.800	6	0.110	2.79	2.04	51.82	2226	3313	913	1358	165	160	185
15493.445100*	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2811	4183	1343	1998	215	210	240
15493.445200*	2/0	0.38	0.820	0.905	4	0.110	2.79	2.30	58.42	3163	4707	1609	2394	245	235	275
15493.445400*	4/0	0.48	0.920	1.005	3	0.110	2.79	2.52	64.01	4203	6255	2398	3567	320	305	360
15493.446000*	250	0.53	0.970	1.060	2	0.110	2.79	2.66	67.56	4775	7106	2812	4184	350	335	400
15493.446200*	350	0.62	1.070	1.155	2	0.110	2.79	2.94	74.68	6182	9200	3766	5604	430	400	490
15493.446500*	500	0.74	1.190	1.275	1	0.140	3.56	3.21	81.53	7686	11438	5244	7803	525	485	600
15493.447000*	750	0.91	1.370	1.460	1/0	0.140	3.56	3.61	91.69	10978	16337	7682	11431	635	585	745
15493.447500*	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.99	101.35	13983	20810	10124	15064	725	660	860

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) The ampacities are based on three conductor Type MV-105 in an uncovered tray in accordance with Section 392.80(B)(1) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are per Table 310.60(C)(71). For cable tray with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

*100% insulation level is available upon request

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

Uniblend® LF EPR/Copper Tape Shield with Overall PVC Jacket

Medium-Voltage Power, Shielded, 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils, Three Conductor



Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

Overall Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER			GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		
		INCHES	MIN.	MAX.		INCHES	mm	DIAMETER	WEIGHT	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR																
15493.440205	2	0.27	0.710	0.800	6	0.110	2.79	2.04	51.82	2226	3313	913	1358	165	160	185
15493.445105	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2811	4183	1343	1998	215	210	240
15493.445205	2/0	0.38	0.820	0.905	4	0.110	2.79	2.30	58.42	3163	4707	1609	2394	245	235	275
15493.445405	4/0	0.48	0.920	1.005	3	0.110	2.79	2.52	64.01	4203	6255	2398	3567	320	305	360
15493.446005*	250	0.53	0.970	1.060	2	0.110	2.79	2.66	67.56	4775	7106	2812	4184	350	335	400
15493.446205	350	0.62	1.070	1.155	2	0.110	2.79	2.94	74.68	6182	9200	3766	5604	430	400	490
15493.446505	500	0.74	1.190	1.275	1	0.140	3.56	3.21	81.53	7686	11438	5244	7803	525	485	600
15493.447005*	750	0.91	1.370	1.460	1/0	0.140	3.56	3.61	91.69	10978	16337	7682	11431	635	585	745
15493.447505*	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.99	101.35	13983	20810	10124	15064	725	660	860

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) The ampacities are based on three conductor Type MV-105 cables in single layer in an uncovered tray with maintained spacing of not less than one cable diameter between cables, in accordance with Section 392.80(B)(1) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are per Table 310.60(C)(71). For cable tray with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

¥100% insulation level is available upon request

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Uniblend®

EPR/Copper Tape Shield with Overall CPE Jacket, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils, Three Conductor

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® CPE JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK



Options:

- Other jacket options available upon request
- Jacketed singles
- UniShield® singles
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS	NOMINAL CABLE				COPPER WEIGHT		AMPACITY			
			MIN.	MAX.			DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
							INCHES	mm	LBS/1000 FT	kg/km						
15 kV[‡], UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR																
15593.440200*	2	0.27	0.710	0.800	6	0.110	2.79	2.04	51.82	2226	3313	913	1358	165	160	185
15593.445100*	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2811	4183	1343	1998	215	210	240
15593.445200*	2/0	0.38	0.820	0.905	4	0.110	2.79	2.30	58.42	3163	4707	1609	2394	245	235	275
15593.445400*	4/0	0.48	0.920	1.005	3	0.110	2.79	2.52	64.01	4203	6255	2398	3567	320	305	360
15593.446000*	250	0.53	0.970	1.060	2	0.110	2.79	2.66	67.56	4775	7106	2812	4184	350	335	400
15593.446200*	350	0.62	1.070	1.155	2	0.110	2.79	2.94	74.68	6182	9200	3766	5604	430	400	490
15593.446500*	500	0.74	1.190	1.275	1	0.140	3.56	3.21	81.53	7686	11438	5244	7803	525	485	600
15593.447000*	750	0.91	1.370	1.460	1/0	0.140	3.56	3.61	91.69	10978	16337	7682	11431	635	585	745
15593.447500*	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.99	101.35	13983	20810	10124	15064	725	660	860

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) The ampacities are based on three conductor Type MV-105 in an uncovered tray in accordance with Section 392.80(B)(1) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are per Table 310.60(C)(71). For cable tray with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

‡100% insulation level is available upon request

Note: a) Sizes smaller than 4/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

GenFree® Uniblend®

EPR/Copper Tape Shield with Overall LSZH Jacket, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils, Three Conductor



Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

Overall Jacket:

- Lead-free, moisture- and sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU GENFREE® UNIBLEND® LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		
		INCHES	MIN.	MAX.	INCHES		mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
15 kV[‡], UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR																	
15793.440200*	2	0.27	0.710	0.800	6	0.110	2.79	2.04	51.82	2226	3313	913	1358	165	160	185	
15793.445100*	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2811	4183	1343	1998	215	210	240	
15793.445200*	2/0	0.38	0.820	0.905	4	0.110	2.79	2.30	58.42	3163	4707	1609	2394	245	235	275	
15793.445400*	4/0	0.48	0.920	1.005	3	0.110	2.79	2.52	64.01	4203	6255	2398	3567	320	305	360	
15793.446000*	250	0.53	0.970	1.060	2	0.110	2.79	2.66	67.56	4775	7106	2812	4184	350	335	400	
15793.446200*	350	0.62	1.070	1.155	2	0.110	2.79	2.94	74.68	6182	9200	3766	5604	430	400	490	
15793.446500*	500	0.74	1.190	1.275	1	0.140	3.56	3.21	81.53	7686	11438	5244	7803	525	485	600	
15793.447000*	750	0.91	1.370	1.460	1/0	0.140	3.56	3.61	91.69	10978	16337	7682	11431	635	585	745	
15793.447500*	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.99	101.35	13983	20810	10124	15064	725	660	860	

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) The ampacities are based on three conductor Type MV-105 in an uncovered tray in accordance with Section 392.80(B)(1) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are per Table 310.60(C)(71). For cable tray with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

‡100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



UniShield®

EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 MILS

Product Construction:

Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting shield layers

Composite Insulation Shield and Jacket:

- Six corrugated copper drain wires embedded in composite layers of semi-conducting thermoset copolymer and semi-conducting black flame-retardant Chlorinated Polyethylene (CPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNISHIELD® (INSULATION THICKNESS) EPR DRTP SEMI-CON CPE JKT TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- 25 kV 100% insulation level
- 35 kV 133% insulation level

Applications:

- Installed in a broad range of commercial, industrial and utility projects such as pulp and paper mills, petrochemical plants, steel mills, textile mills, water and sewage treatment facilities, environmental protection systems, railroads, mines and fossil fuel utility generating stations



Applications (cont'd.):

- Suitable for use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Reduced conductor size and shield system provide the smallest premium medium-voltage shielded power cable with full insulation
- Smaller outside dimensions reduce the size of duct needed or increase the ampacity per duct
- All features contribute to faster and easier installation
- Superior cold bend and cold impact performance
- Stable and constant shield short circuit performance
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low dielectric loss
- Low moisture absorption
- Electrical stability under stress
- Chemical-resistant

Features (cont'd.):

- Sunlight-resistant
- Meets cold bend test at -55°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		DRAIN WIRE SIZE (AWG)	NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)	
		INCHES	MIN.	MAX.	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)		
					INCHES		mm	LBS/1000 FT									kg/km

25 kV* & 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVEL, 345 MILS

19261.685100*	1/0	0.34	1.020	1.120	17	1.29	32.77	1014	1509	367	546	215	215	295	4
19261.685200*	2/0	0.38	1.060	1.160	17	1.36	34.54	1163	1731	452	672	255	245	335	5
19261.685300*	3/0	0.43	1.105	1.205	17	1.41	35.81	1310	1949	559	832	290	275	380	5
19261.685400*	4/0	0.48	1.160	1.260	17	1.43	36.32	1442	2146	694	1033	330	315	435	5
19261.686000*	250	0.53	1.210	1.315	16	1.51	38.35	1645	2448	824	1226	365	345	475	5
19261.686200*	350	0.62	1.310	1.410	16	1.60	40.64	2024	3012	1133	1685	440	415	575	5
19261.686500*	500	0.74	1.430	1.530	16	1.74	44.20	2608	3881	1596	2374	535	500	700	6
19261.687000*	750	0.91	1.610	1.710	16	1.95	49.78	3596	5351	2368	3523	655	610	865	6
19261.687500*	1000	1.06	1.760	1.865	16	2.11	53.59	4513	6715	3138	4669	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(81) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

¥100% insulation level is available upon request

**133% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all UniShield® constructions.

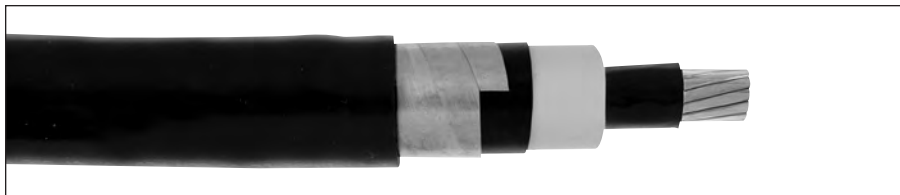


Phone: 888-593-3355
www.generalcable.com



Uniblend®

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 MILS



Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

Product Construction:

Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU

Print (cont'd.):

UNIBLEND® PVC JKT (INSULATION THICKNESS)
EPR TYPE MV-105 (VOLTAGE) KV% INSULATION
LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL
FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- Other jacket options available upon request
- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 25 kV 100% insulation level
- 35 kV 133% insulation level

Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)	
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)		DIRECT BURIAL (3)
									INCHES	mm	LBS/1000 FT	kg/km						
25 kV* AND 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS																		
17061.135100*	1/0	0.34	1.020	1.120	0.080	2.03	1.31	33.27	1090	1622	425	633	215	215	295	5		
17061.135200*	2/0	0.38	1.060	1.160	0.080	2.03	1.35	34.29	1211	1802	514	765	255	245	335	5		
17061.135300*	3/0	0.43	1.105	1.205	0.080	2.03	1.40	35.56	1360	2024	625	930	290	275	380	5		
17061.135400*	4/0	0.48	1.160	1.260	0.080	2.03	1.45	36.83	1547	2302	765	1138	330	315	435	5		
17061.136000*	250	0.53	1.210	1.315	0.080	2.03	1.51	38.35	1712	2547	888	1322	365	345	475	5		
17061.136200*	350	0.62	1.310	1.410	0.080	2.03	1.60	40.64	2108	3137	1206	1794	440	415	575	5		
17061.136500*	500	0.74	1.430	1.530	0.080	2.03	1.72	45.21	2650	4141	1679	2498	535	500	700	6		
17061.137000*	750	0.91	1.610	1.710	0.110	2.79	1.96	49.78	3733	5555	2467	3670	655	610	865	6		
17061.137500*	1000	1.06	1.760	1.865	0.110	2.79	2.10	53.59	4651	6921	3250	4836	755	690	1005	8		

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(81) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

*100% insulation level is available upon request

**133% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355
www.generalcable.com

Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 MILS



Product Construction:

Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

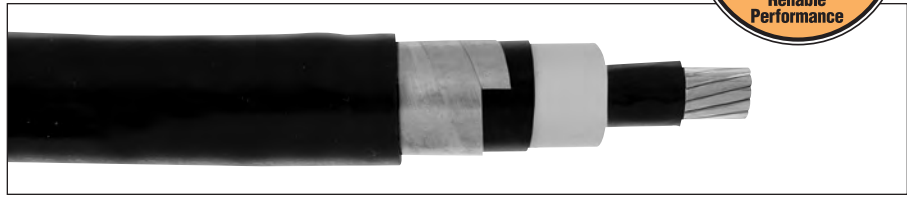
- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

Options:

- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 25 kV 100% insulation level
- 35 kV 133% insulation level



Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 UL Flame Exposure Test
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
							INCHES	mm	LBS/1000 FT	kg/km						

25 kV* AND 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS

17061.135105	1/0	0.34	1.020	1.120	0.080	2.03	1.31	33.27	1090	1622	425	633	215	215	295	5
17061.135205*	2/0	0.38	1.060	1.160	0.080	2.03	1.35	34.29	1211	1802	514	765	255	245	335	5
17061.135305*	3/0	0.43	1.105	1.205	0.080	2.03	1.40	35.56	1360	2024	625	930	290	275	380	5
17061.135405	4/0	0.48	1.160	1.260	0.080	2.03	1.45	36.83	1547	2302	765	1138	330	315	435	5
17061.136005*	250	0.53	1.210	1.315	0.080	2.03	1.51	38.35	1712	2547	888	1322	365	345	475	5
17061.136205	350	0.62	1.310	1.410	0.080	2.03	1.60	40.64	2108	3137	1206	1794	440	415	575	5
17061.136505	500	0.74	1.430	1.530	0.080	2.03	1.72	45.21	2650	4141	1679	2498	535	500	700	6
17061.137005*	750	0.91	1.610	1.710	0.110	2.79	1.96	49.78	3733	5555	2467	3670	655	610	865	6
17061.137505*	1000	1.06	1.760	1.865	0.110	2.79	2.10	53.59	4651	6921	3250	4836	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(7)3 of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(7)7 of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(8)1 of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

†100% insulation level is available upon request

**133% insulation level is available upon request

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.

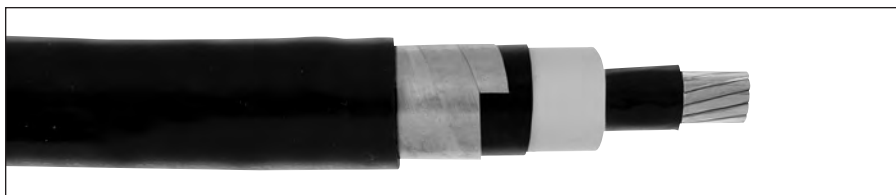


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Aluminum Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 MILS



Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Meets longitudinal water penetration resistance
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 UL Flame Exposure Test
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

Product Construction:

Conductor:

- 1/0 AWG thru 1000 kcmil 1350 aluminum compact Class B STRANDFIL® blocked conductor

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/ YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT AL UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

Options:

- 25 kV 100% insulation level
- 35 kV 133% insulation level

Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)	
			MIN.	MAX.	INCHES	mm	DIAMETER		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)		
							INCHES	mm											
25 kV* AND 35 kV** , UL TYPE MV-105, 133%/100% INS. LEVEL, 345 MILS																			
17061.135108*	1/0	0.34	1.020	1.120	0.080	2.03	1.31	33.27	863	1285	99	147	99	147	170	165	230	5	
17061.135208*	2/0	0.38	1.060	1.160	0.080	2.03	1.35	34.29	925	1377	125	186	103	153	200	190	260	5	
17061.135308*	3/0	0.43	1.105	1.205	0.080	2.03	1.40	35.56	1000	1488	158	235	107	159	225	215	295	5	
17061.135408*	4/0	0.48	1.160	1.260	0.080	2.03	1.45	36.83	1093	1626	199	296	112	167	260	245	340	5	
17061.136008*	250	0.53	1.210	1.315	0.080	2.03	1.51	38.35	1174	1747	234	348	116	173	290	270	370	5	
17061.136208*	350	0.62	1.310	1.410	0.080	2.03	1.60	40.64	1356	2018	329	490	125	186	350	330	450	5	
17061.136508*	500	0.74	1.430	1.530	0.080	2.03	1.72	45.21	1707	2540	468	696	135	201	430	400	545	6	
17061.137008*	750	0.91	1.610	1.710	0.110	2.79	1.96	49.78	2120	3155	703	1046	151	225	540	490	680	6	
17061.137508*	1000	1.06	1.760	1.865	0.110	2.79	2.10	53.59	2500	3720	937	1394	162	241	640	565	795	8	

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(74) of the NEC for triplexed or three single conductor aluminum cables in isolated conduit in air based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(78) of the NEC for triplexed or three single conductor aluminum cables in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(82) of the NEC for single insulated aluminum conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

†100% insulation level is available upon request.

**133% insulation level is available upon request.

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.



Uniblend®

EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 MILS

Product Construction:

Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

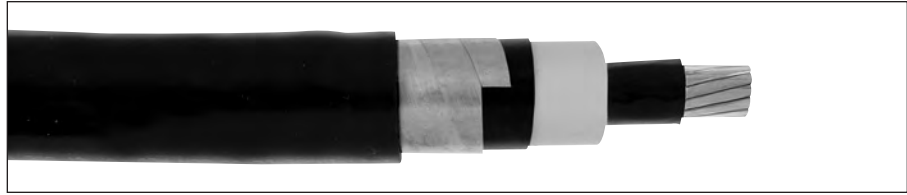
Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® CPE JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- Other jacket options available upon request
- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 25 kV 100% insulation level
- 35 kV 133% insulation level



Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- **Optional Flame Tests:**
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS INCHES	NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			MIN.	MAX.		DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
						INCHES	mm	LBS/1000 FT	kg/km						

25 kV* AND 35 kV**†, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS

17161.135100*	1/0	0.340	1.020	1.120	0.080	1.31	33.27	1066	1586	425	633	215	215	295	5
17161.135200*	2/0	0.380	1.060	1.160	0.080	1.35	34.29	1187	1766	514	765	255	245	335	5
17161.135300*	3/0	0.430	1.105	1.205	0.080	1.40	35.56	1335	1986	625	930	290	275	380	5
17161.135400*	4/0	0.480	1.160	1.260	0.080	1.45	36.83	1516	2256	765	1138	330	315	435	5
17161.136000*	250	0.530	1.210	1.315	0.080	1.51	38.35	1681	2501	888	1322	365	345	475	5
17161.136200*	350	0.630	1.310	1.410	0.080	1.60	40.64	2075	3088	1206	1794	440	415	575	5
17161.136500*	500	0.740	1.430	1.530	0.080	1.72	45.21	2650	3934	1679	2498	535	500	700	6
17161.137000*	750	0.910	1.610	1.710	0.110	1.96	49.78	3687	5486	2467	3670	655	610	865	6
17161.137500*	1000	1.060	1.760	1.865	0.110	2.10	53.59	4603	6849	3250	4836	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(7)3 of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(7)7 of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(8)1 of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

†100% insulation level is available upon request

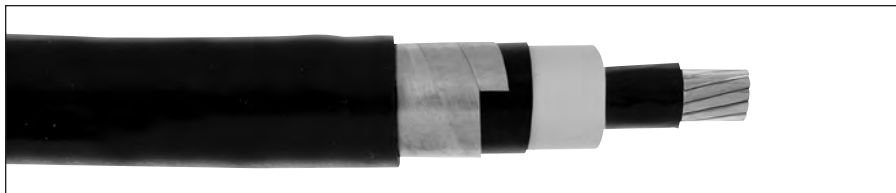
**133% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

GenFree® Uniblend®

EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded
25 kV and 35 kV, UL Type MV-105/ST1, 133%/100% Ins. Levels, 345 Mils



Features (cont'd.):

- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Product Construction:

Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Overall Jacket:

- Lead-free, moisture- and sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU GENFREE® UNIBLEND® LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105/ST1 (VOLTAGE) KV%

Print (cont'd.):

INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

- * Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Options:

- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 25 kV 100% insulation level
- 35 kV 133% insulation level

Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- UL 1685 Vertical Flame and Smoke Release Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
							INCHES	mm	LBS/1000 FT	kg/km						

25 KV* AND 35 KV, UL TYPE MV-105/ST1, 133%/100% INS. LEVELS, 345 MILS**

17261.135100*	1/0	0.34	1.020	1.120	0.080	2.03	1.31	33.27	1090	1622	425	633	215	215	295	5
17261.135200*	2/0	0.38	1.060	1.160	0.080	2.03	1.35	34.29	1211	1802	514	765	255	245	335	5
17261.135300*	3/0	0.43	1.105	1.205	0.080	2.03	1.40	35.56	1360	2024	625	930	290	275	380	5
17261.135400*	4/0	0.48	1.160	1.260	0.080	2.03	1.45	36.83	1547	2302	765	1138	330	315	435	5
17261.136000*	250	0.53	1.210	1.315	0.080	2.03	1.51	38.35	1712	2547	888	1322	365	345	475	5
17261.136200*	350	0.62	1.310	1.410	0.080	2.03	1.60	40.64	2108	3137	1206	1794	440	415	575	5
17261.136500*	500	0.74	1.430	1.530	0.080	2.03	1.72	45.21	2650	4141	1679	2498	535	500	700	6
17261.137000*	750	0.91	1.610	1.710	0.110	2.79	1.96	49.78	3733	5555	2467	3670	655	610	865	6
17261.137500*	1000	1.06	1.760	1.865	0.110	2.79	2.10	53.59	4651	6921	3250	4836	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(81) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

†100% insulation level is available upon request

‡133% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355
www.generalcable.com

Uniblend®

EPR/Copper Tape Shield with Overall PVC Jacket, Medium-Voltage Power, Shielded
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 MILS, Three Conductor

Product Construction:

Conductor:

- 1/0 AWG thru 750 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

Overall Jacket:

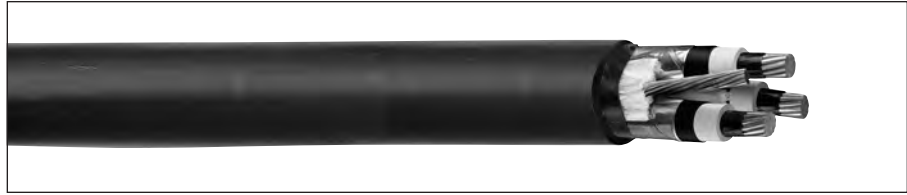
- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

Options:

- Other jacket options available upon request
- Jacketed singles
- UniShield® singles



Options (cont'd.):

- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires
- 25 kV 100% insulation level
- 35 kV 133% insulation level

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- Suitable for use in wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		
			MIN.	MAX.		INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)
								INCHES	mm	LBS/1000 FT	kg/km					
25 kV* AND 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS, THREE CONDUCTOR																
15493.485100*	1/0	0.34	1.020	1.120	4	0.110	2.79	2.73	69.34	3672	5464	1410	2098	215	210	255
15493.485200*	2/0	0.38	1.060	1.160	4	0.110	2.79	2.81	71.37	4061	6042	1675	2492	245	235	290
15493.485400*	4/0	0.48	1.160	1.260	3	0.140	3.56	3.10	78.74	5313	7906	2465	3668	320	305	375
15493.486000*	250	0.53	1.210	1.315	2	0.140	3.56	3.21	81.53	6214	9246	2879	4284	350	335	410
15493.486200*	350	0.62	1.310	1.410	2	0.140	3.56	3.42	86.86	7138	10621	3834	5705	430	400	495
15493.486500*	500	0.74	1.430	1.530	1	0.140	3.56	3.68	93.47	9012	13410	5312	7904	525	485	590
15493.487000*	750	0.91	1.610	1.710	1/0	0.140	3.56	4.10	104.14	12030	17901	7750	11532	635	585	720

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(83) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 5, 100% load factor, and earth thermal resistance (rho) of 90.

¥100% insulation level is available upon request

¥¥133% insulation level is available upon request

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

Uniblend® LF EPR/Copper Tape Shield with Overall PVC Jacket

Medium-Voltage Power, Shielded, 25 kV and 35 kV, UL Type MV-105

133%/100% Ins. Levels, 345 Mils, Three Conductor



Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

Product Construction:

Conductor:

- 1/0 AWG thru 750 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

Overall Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

Options:

- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires
- 25 kV 100% insulation level
- 35 kV 133% insulation level

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- Suitable for use in wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		
			MIN.	MAX.		INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)
								INCHES	mm	LBS/1000 FT	kg/km					
25 kV* AND 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS, THREE CONDUCTOR																
15493.485105*	1/0	0.34	1.020	1.120	4	0.110	2.79	2.73	69.34	3672	5464	1410	2098	215	210	255
15493.485205*	2/0	0.38	1.060	1.160	4	0.110	2.79	2.81	71.37	4061	6042	1675	2492	245	235	290
15493.485405*	4/0	0.48	1.160	1.260	3	0.140	3.56	3.10	78.74	5313	7906	2465	3668	320	305	375
15493.486005*	250	0.53	1.210	1.315	2	0.140	3.56	3.21	81.53	6214	9246	2879	4284	350	335	410
15493.486205*	350	0.62	1.310	1.410	2	0.140	3.56	3.42	86.86	7138	10621	3834	5705	430	400	495
15493.486505*	500	0.74	1.430	1.530	1	0.140	3.56	3.68	93.47	9012	13410	5312	7904	525	485	590
15493.487005*	750	0.91	1.610	1.710	1/0	0.140	3.56	4.10	104.14	12030	17901	7750	11532	635	585	720

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(83) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 5, 100% load factor, and earth thermal resistance (rho) of 90.

¥100% insulation level is available upon request

¥¥133% insulation level is available upon request

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Uniblend®

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils

Product Construction:

Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

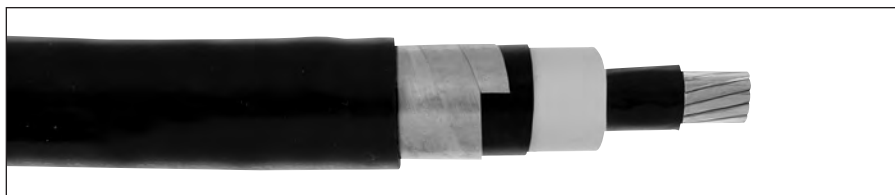
- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

Options:

- Other jacket options available upon request
- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610



Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
							INCHES	mm	LBS/1000 FT	kg/km						

35 kV, UL TYPE MV-105, 133% INS. LEVELS, 420 MILS

17071.135100*	1/0	0.34	1.060	1.265	0.080	2.03	1.47	37.34	1253	1864	437	650	215	215	295	5
17071.135200*	2/0	0.38	1.200	1.305	0.080	2.03	1.49	37.85	1378	2050	525	781	255	245	335	5
17071.135300*	3/0	0.43	1.245	1.355	0.080	2.03	1.53	38.86	1532	2280	636	946	290	275	380	5
17071.135400*	4/0	0.48	1.300	1.405	0.080	2.03	1.59	40.39	1716	2553	776	1155	330	315	435	6
17071.136000*	250	0.53	1.350	1.460	0.080	2.03	1.64	41.66	1888	2809	899	1338	365	345	475	6
17071.136200*	350	0.62	1.450	1.555	0.110	2.79	1.79	45.47	2396	3565	1217	1811	440	415	575	6
17071.136500*	500	0.74	1.570	1.675	0.110	2.79	1.91	48.5	2986	4443	1690	2515	535	500	700	6
17071.137000*	750	0.91	1.750	1.860	0.110	2.79	2.09	53.09	3954	5884	2477	3685	655	610	865	6
17071.137500*	1000	1.06	1.900	2.010	0.110	2.79	2.25	57.15	4885	7269	3263	4855	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(7) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(7) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

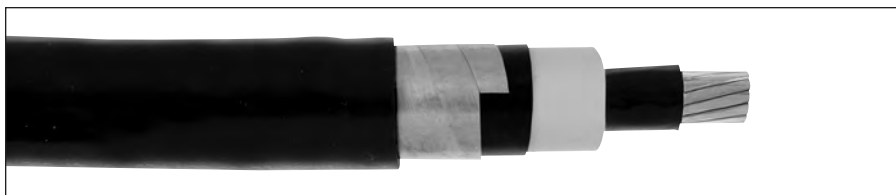
(3) Ampacities are in accordance with Table 310.60(C)(8) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.

Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils



Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

Product Construction:

Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

Options:

- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610

Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
							INCHES	mm	LBS/1000 FT	kg/km						
35 kV, UL TYPE MV-105, 133% INS. LEVELS, 420 MILS																
17071.135105*	1/0	0.34	1.060	1.265	0.080	2.03	1.47	37.34	1253	1864	437	650	215	215	295	5
17071.135205*	2/0	0.38	1.200	1.305	0.080	2.03	1.49	37.85	1378	2050	525	781	255	245	335	5
17071.135305*	3/0	0.43	1.245	1.355	0.080	2.03	1.53	38.86	1532	2280	636	946	290	275	380	5
17071.135405*	4/0	0.48	1.300	1.405	0.080	2.03	1.59	40.39	1716	2553	776	1155	330	315	435	6
17071.136005*	250	0.53	1.350	1.460	0.080	2.03	1.64	41.66	1888	2809	899	1338	365	345	475	6
17071.136205*	350	0.62	1.450	1.555	0.110	2.79	1.79	45.47	2396	3565	1217	1811	440	415	575	6
17071.136505*	500	0.74	1.570	1.675	0.110	2.79	1.91	48.5	2986	4443	1690	2515	535	500	700	6
17071.137005*	750	0.91	1.750	1.860	0.110	2.79	2.09	53.09	3954	5884	2477	3685	655	610	865	6
17071.137505*	1000	1.06	1.900	2.010	0.110	2.79	2.25	57.15	4885	7269	3263	4855	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(7)3 of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(7)7 of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(8)1 of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.



Aluminum Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils



Product Construction:

Conductor:

- 1/0 AWG thru 1000 kcmil 1350 aluminum compact Class B STRANDFILL® blocked conductor

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

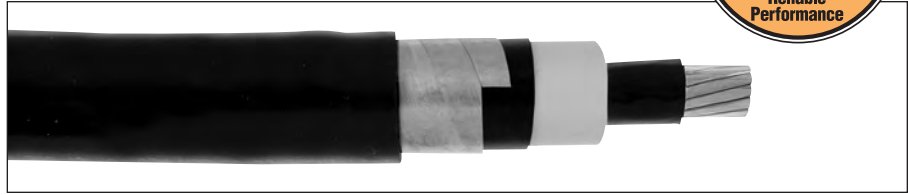
- 5 mil annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT AL UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK



Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Meets longitudinal water penetration resistance
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)		
			MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)	DIRECT BURIAL (3)
							INCHES	mm	LBS/1000 FT	kg/km										

35 kV, UL TYPE MV-105, 133% INS. LEVEL, 420 MILS

17071.135108*	1/0	0.34	1.060	1.265	0.080	2.03	1.47	37.34	1026	1527	99	147	111	165	170	165	230	5
17071.135208*	2/0	0.38	1.200	1.305	0.080	2.03	1.49	37.85	1092	1625	125	186	114	170	200	190	260	5
17071.135308*	3/0	0.43	1.245	1.355	0.080	2.03	1.53	38.86	1172	1744	158	235	118	175	225	215	295	5
17071.135408*	4/0	0.48	1.300	1.405	0.080	2.03	1.59	40.39	1262	1878	199	296	123	183	260	245	340	6
17071.136008*	250	0.53	1.350	1.460	0.080	2.03	1.64	41.66	1350	2009	234	348	127	189	290	270	370	6
17071.136208*	350	0.62	1.450	1.555	0.110	2.79	1.79	45.47	1644	2447	329	490	136	202	350	330	450	6
17071.136508*	500	0.74	1.570	1.675	0.110	2.79	1.91	48.50	1910	2842	468	696	146	217	430	400	545	6
17071.137008*	750	0.91	1.750	1.860	0.110	2.79	2.09	53.09	2341	3484	703	1046	161	240	540	490	680	6
17071.137508*	1000	1.06	1.900	2.010	0.110	2.79	2.25	57.15	2734	4069	937	1394	175	260	640	565	795	8

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(74) of the NEC for triplexed or three single conductor aluminum cables in isolated conduit in air based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(78) of the NEC for triplexed or three single conductor aluminum cables in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(82) of the NEC for single insulated aluminum conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.

600 V – 35 kV Industrial Armored Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
7050[†]	Duralox [®] XLPE/AIA/PVC, Control, Armored 600 V, UL Type MC, Multi-Conductor	Jan. 2010
7100[†]	Duralox [®] XLPE/AIA/PVC, Power, Armored 600 V, UL Type MC, Three and Four Conductor (8 AWG - 4/0 AWG)	Mar. 2012
7150[†]	Duralox [®] XLPE/AIA/PVC, Power, Armored 600 V, UL Type MC, Three and Four Conductor (250 kcmil - 1000 kcmil)	Jan. 2010
7160[†]	Duralox [®] XLPE/AIA/PVC, Power, Armored, with Enhanced Ground Wires (50%) 600 V, UL Type MC, Three Conductor (1/0 AWG - 1000 kcmil)	Jan. 2010
7200[†]	Duralox [®] EPR/AIA/PVC, Power, Nonshielded, Armored 2400 V, UL Type MV-90 or MC, Three Conductor	Jan. 2010
7250[†]	Duralox [®] Uniblend [®] EPR/AIA/PVC, Power, Shielded, Armored 5 kV/8 kV, UL Type MV-105 or MC, 133%/100% Ins. Levels, 115 Mils, Three Conductor	Aug. 2010
7300[†]	Duralox [®] Uniblend [®] EPR/AIA/PVC, Power, Shielded, Armored 15 kV, UL Type MV-105 or MC, 133% Ins. Level, 220 Mils, Three Conductor	Aug. 2010
7310[†]	Duralox [®] Uniblend [®] EPR/AIA/PVC, Power, Shielded, Armored, with Enhanced Ground Wires (50%) 15 kV, UL Type MV-105 or MC, 133% Ins. Level, 220 Mils, Three Conductor	Aug. 2010
7350	Duralox [®] Uniblend [®] EPR/AIA/PVC, Power, Shielded, Armored 25 kV, UL Type MV-105 or MC, 100% Ins. Level, 260 Mils, Three Conductor	Aug. 2010
7400	Duralox [®] Uniblend [®] EPR/AIA/PVC, Power, Shielded, Armored 35 kV, UL Type MV-105 or MC, 100% Ins. Level, 345 Mils, Three Conductor	Aug. 2010

[†]Indicates these products are stocked by General Cable

Duralox®

XLPE/AIA/PVC, Control, Armored 600 V, UL Type MC, Multi-Conductor

Product Construction:

Conductor:

- 14 AWG thru 10 AWG bare compressed copper
- Class B stranding per ASTM B3 and B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

Ground:

- Annealed bare copper Class B stranding per ASTM B8

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

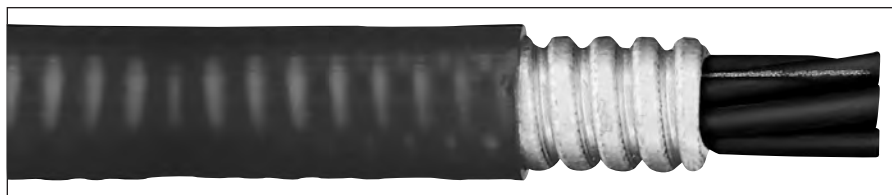
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE® XX/C XX AWG (UL) TYPE MC XHHW-2 CDRS DIR BUR SUN RES FOR CT USE 600 V MONTH-YEAR SEQUENTIAL FOOTAGE MARK

Options:

- Tinned copper conductors
- E-1 color code
- Copper tape shield or aluminum/polymer tape shield with tinned copper drain wire over cable core



Options (cont'd.):

- Inner jacket only, outer jacket only, or both
- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- In all raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2; Class II, Division 2; and Class III, Division 1 and 2 per NEC Article 334

Features:

- Rated at 90°C wet or dry
- Sunlight-resistant
- Provides excellent oil and chemical resistance
- Excellent crush resistance
- Provides a long service life
- Flame-retardant and resistant to moisture
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1569
- UL 44
- ICEA S-95-658/NEMA WC70
- UL Type MC-600 volts, UL File # E69797
- NEC Type XHHW-2 conductors

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plinking

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	MINIMUM INSULATION THICKNESS		GRND. WIRE SIZE (AWG)	NOM. DIA. (OVER) ARMOR		NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG - MULTI-CONDUCTOR - 600 V

346410*	2	14	0.030	0.76	14	0.49	12.5	0.050	1.27	0.60	15.3	39	58	175	261
346420	3	14	0.030	0.76	14	0.52	13.2	0.050	1.27	0.63	16.0	52	78	183	273
346430*	4	14	0.030	0.76	14	0.55	14.0	0.050	1.27	0.66	16.8	65	97	233	347
346440	5	14	0.030	0.76	14	0.59	15.0	0.050	1.27	0.69	17.6	79	118	246	367
346450	7	14	0.030	0.76	14	0.64	16.3	0.050	1.27	0.74	18.8	104	155	297	443
346460*	9	14	0.030	0.76	14	0.72	18.3	0.050	1.27	0.83	21.1	130	193	379	564
346470*	12	14	0.030	0.76	14	0.80	20.3	0.050	1.27	0.90	22.9	168	250	460	685
346480*	19	14	0.030	0.76	14	0.99	25.2	0.050	1.27	1.02	25.9	259	385	621	924
346490*	25	14	0.030	0.76	14	1.07	27.2	0.050	1.27	1.17	29.7	337	502	776	1155
346500*	37	14	0.030	0.76	14	1.19	30.3	0.050	1.27	1.29	32.8	492	732	1043	1533

12 AWG - MULTI-CONDUCTOR - 600 V

346510*	2	12	0.030	0.76	12	0.53	13.5	0.050	1.27	0.64	16.3	64	96	218	324
346520	3	12	0.030	0.76	12	0.56	14.3	0.050	1.27	0.66	16.8	83	124	227	338
346530	4	12	0.030	0.76	12	0.60	15.3	0.050	1.27	0.71	18.1	103	154	272	405
346540	5	12	0.030	0.76	12	0.64	16.3	0.050	1.27	0.75	19.1	129	192	336	500
346550	7	12	0.030	0.76	12	0.70	17.8	0.050	1.27	0.81	20.6	165	246	380	566
346560*	9	12	0.030	0.76	12	0.78	19.8	0.050	1.27	0.89	22.6	214	319	479	713
346570*	12	12	0.030	0.76	12	0.86	21.9	0.050	1.27	0.97	24.7	279	416	596	887
346580*	19	12	0.030	0.76	12	0.99	25.2	0.050	1.27	1.10	28.0	428	637	830	1235
346590*	25	12	0.030	0.76	12	1.18	30.0	0.050	1.27	1.28	32.5	557	829	1058	1575
346600*	37	12	0.030	0.76	12	1.31	33.3	0.050	1.27	1.41	35.8	793	1180	1403	2088

10 AWG - MULTI-CONDUCTOR - 600 V

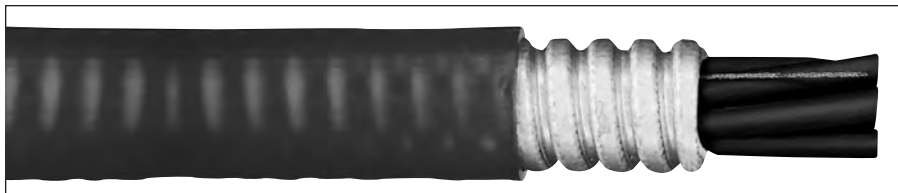
346610	3	10	0.030	0.76	10	0.61	15.5	0.050	1.27	0.72	18.3	131	195	301	448
346620	4	10	0.030	0.76	10	0.66	16.8	0.050	1.27	0.77	19.6	164	244	355	529

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

Duralox®

XLPE/AIA/PVC, Power, Armored
600 V, UL Type MC, Three and Four Conductor (8 AWG—4/0 AWG)



Product Construction:

Conductors:

- 8 AWG thru 4/0 AWG bare compressed copper
- Class B stranding per ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 3, Table E-2

Ground:

- Annealed bare copper Class B stranding per ASTM B8

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE® SIZE (AWG OR KCMIL) 3/C OR 4/C (AS APPLICABLE) TYPE XHHW-2 CDRS 1/C SIZE AWG GRD SUN RES FOR CT USE DIR BUR 600 V (UL) MONTH/YEAR SEQUENTIAL FOOTAGE MARK

Options:

- Other constructions available upon request

Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications, where maximum performance is demanded, ease of installation desired and fire resistance is critical
- Permitted for use in Class I; Class II, Division 2; and Class III, Division 1 and 2 hazardous locations per the NEC
- Installed in both exposed or concealed work, wet or dry locations, indoors or outdoors and cable trays

Features:

- Rated at 90°C wet or dry
- Provides excellent oil and chemical resistance
- Excellent crush resistance
- Provides a long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1569
- UL 44
- ICEA S-95-658/NEMA WC70
- UL Type MC-600 volts, UL File # E69797
- NEC Type XHHW-2 conductors

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	GRND. WIRE SIZE (AWG)	MINIMUM INSULATION THICKNESS		NOM. DIA. (OVER) ARMOR		NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
8 AWG - 4/0 AWG - THREE AND FOUR CONDUCTOR - 600 V															
346630	3	8	10	0.045	1.14	0.74	18.8	0.050	1.27	0.84	21.4	189	281	420	625
346640*	4	8	10	0.045	1.14	0.80	20.3	0.050	1.27	0.90	22.9	241	359	507	755
11298.030600	3	6	8	0.045	1.14	0.84	21.4	0.050	1.27	0.95	24.2	300	446	567	844
11298.040600*	4	6	8	0.045	1.14	0.91	23.1	0.050	1.27	1.01	25.6	383	570	670	997
11298.030400	3	4	8	0.045	1.14	0.94	23.9	0.050	1.27	1.05	26.7	447	665	757	1127
11298.040400*	4	4	8	0.045	1.14	1.03	26.2	0.050	1.27	1.13	28.7	577	859	912	1357
11298.030200	3	2	6	0.045	1.14	1.07	27.2	0.050	1.27	1.18	30.0	710	1057	1075	1600
11298.040200*	4	2	6	0.045	1.14	1.18	30.0	0.050	1.27	1.28	32.5	919	1368	1295	1927
11298.030100*	3	1	6	0.055	1.40	1.19	30.3	0.050	1.27	1.29	32.8	873	1299	1269	1889
11298.040100*	4	1	6	0.055	1.40	1.31	33.3	0.050	1.27	1.41	35.9	1136	1691	1596	2375
11298.035100	3	1/0	6	0.055	1.40	1.27	32.3	0.050	1.27	1.38	35.1	1081	1609	1528	2274
11298.045100*	4	1/0	6	0.055	1.40	1.40	35.6	0.050	1.27	1.50	38.1	1512	2250	1913	2847
11298.035200	3	2/0	6	0.055	1.40	1.37	34.8	0.050	1.27	1.48	37.6	1341	1996	1860	2768
11298.045200*	4	2/0	6	0.055	1.40	1.51	38.2	0.050	1.27	1.61	40.9	1760	2619	2345	3490
11298.035300	3	3/0	4	0.055	1.40	1.48	37.6	0.050	1.27	1.59	40.4	1717	2555	2259	3362
11298.045300*	4	3/0	4	0.055	1.40	1.66	42.2	0.050	1.27	1.78	45.3	2245	3341	2878	4283
11298.035400	3	4/0	4	0.055	1.40	1.66	42.2	0.060	1.52	1.79	45.5	2130	3170	2840	4226
11298.045400*	4	4/0	4	0.055	1.40	1.78	45.2	0.060	1.52	1.90	48.3	2796	4161	3586	5336

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

Duralox®

XLPE/AIA/PVC, Power, Armored

600 V, UL Type MC, Three and Four Conductor (250 kcmil – 1000 kcmil)

Product Construction:

Conductors:

- 250 kcmil thru 1000 kcmil bare compressed copper
- Class B stranding per ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 3, Table E-2

Ground:

- Annealed bare copper Class B stranding per ASTM B8

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

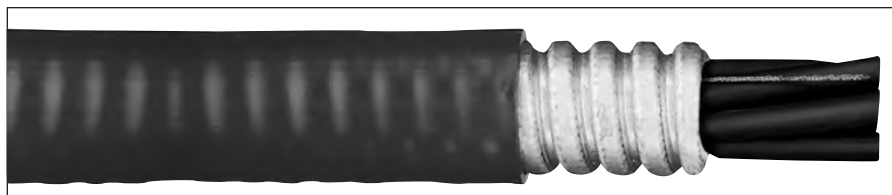
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE® SIZE (AWG OR KCMIL) 3/C OR 4/C (AS APPLICABLE) TYPE XHHW-2 CDRS 1/C SIZE AWG GRD SUN RES FOR CT USE DIR BUR 600 V (UL) MONTH/YEAR SEQUENTIAL FOOTAGE MARK

Options:

- Other constructions available upon request



Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications, where maximum performance is demanded, ease of installation desired and fire resistance is critical
- Permitted for use in Class I; Class II, Division 2; and Class III, Division 1 and 2 hazardous locations per the NEC
- Installed in both exposed or concealed work, wet or dry locations, indoors or outdoors and cable trays

Features:

- Rated at 90°C wet or dry
- Provides excellent oil and chemical resistance
- Excellent crush resistance
- Provides a long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1569
- UL 44
- ICEA S-95-658/NEMA WC70
- UL Type MC-600 volts, UL File # E90496
- NEC Type XHHW-2 conductors

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

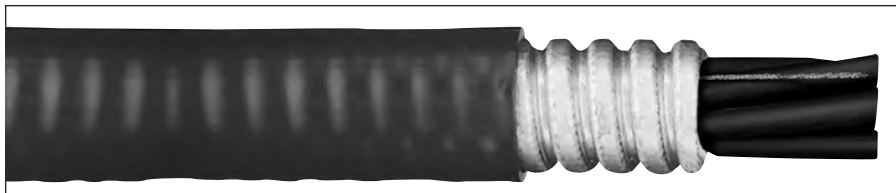
CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	GRND. WIRE SIZE (AWG)	MINIMUM INSULATION THICKNESS		NOM. DIA. (OVER) ARMOR		NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
250 kcmil - 1000 kcmil - THREE AND FOUR CONDUCTOR - 600 V															
11298.036000	3	250	4	0.065	1.65	1.81	46.0	0.060	1.52	1.94	49.3	2495	3713	3295	4903
11298.046000*	4	250	4	0.065	1.65	1.95	49.5	0.060	1.52	2.07	52.6	3282	4884	4174	6211
11298.036200	3	350	3	0.065	1.65	2.03	51.6	0.060	1.52	2.16	54.9	3474	5170	4400	6548
11298.046200*	4	350	3	0.065	1.65	2.20	55.9	0.060	1.52	2.32	59.0	4576	6810	5608	8345
11298.036500	3	500	2	0.065	1.65	2.30	58.5	0.075	1.91	2.46	62.5	4934	7343	6126	9116
11298.046500*	4	500	2	0.065	1.65	2.51	63.8	0.075	1.91	2.66	67.6	6509	9687	7825	11644
11298.037000*	3	750	1	0.080	2.03	2.74	69.6	0.075	1.91	2.89	73.4	7351	10940	8806	13104
11298.047000*	4	750	1	0.080	2.03	3.04	77.2	0.075	1.91	3.21	81.6	9713	14455	11494	17104
11298.037500*	3	1000	1/0	0.080	2.03	3.07	78.0	0.075	1.91	3.24	82.3	9783	14559	11476	17077
11298.047500*	4	1000	1/0	0.080	2.03	3.41	86.6	0.075	1.91	3.58	91.0	12932	19245	14931	22218

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

Duralox®

XLPE/AIA/PVC, Power, Armored, with Enhanced Ground Wires (50%)
600 V, UL Type MC, Three Conductor (1/0 AWG—1000 kcmil)



Product Construction:

Conductors:

- 1/0 AWG thru 1000 kcmil bare compressed copper
- Class B stranding per ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 3, Table E-2

Ground:

- Annealed bare copper Class B stranding per ASTM B8

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE® SIZE (AWG OR KCMIL) 3/C TYPE XHHW-2 CDRS 1/C SIZE AWG GRD SUN RES FOR CT USE DIR BUR 600 V (UL) MONTH/YEAR SEQUENTIAL FOOTAGE MARK

Options:

- Other constructions available upon request

Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications, where maximum performance is demanded, ease of installation desired and fire resistance is critical
- Permitted for use in Class I; Class II, Division 2; and Class III, Division 1 and 2 hazardous locations per the NEC
- Installed in both exposed or concealed work, wet or dry locations, indoors or outdoors and cable trays

Features:

- Rated at 90°C wet or dry
- Provides excellent oil and chemical resistance
- Excellent crush resistance
- Provides a long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1569
- UL 44
- ICEA S-95-658/NEMA WC70
- UL Type MC-600 volts, UL File # E90496
- NEC Type XHHW-2 conductors

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	GRND. WIRE SIZE (AWG)	MINIMUM INSULATION THICKNESS		NOM. DIA. (OVER) ARMOR		NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
1/0 AWG - 1000 kcmil - THREE CONDUCTOR - 600 V															
11298.515100*	3	1/0	3x6	0.055	1.40	1.27	32.3	0.050	1.27	1.38	35.1	1247	1858	1694	2524
11298.515200*	3	2/0	3x6	0.055	1.40	1.37	34.8	0.050	1.27	1.48	37.6	1507	2245	2026	3019
11298.515300*	3	3/0	3x5	0.055	1.40	1.48	37.6	0.050	1.27	1.59	40.4	1939	2889	2481	3697
11298.515400*	3	4/0	3x4	0.055	1.40	1.66	42.2	0.060	1.52	1.79	45.5	2395	3569	3105	4626
11298.516000*	3	250	3x4	0.065	1.65	1.81	46.0	0.060	1.52	1.94	49.3	2760	4112	3560	5304
11298.516200*	3	350	3x2	0.065	1.65	2.03	51.6	0.060	1.52	2.16	54.9	3944	5877	4870	7256
11298.516500	3	500	3x1	0.065	1.65	2.30	58.5	0.075	1.91	2.46	62.5	5473	8155	6665	9931
11298.517000*	3	750	3x2/0	0.080	2.03	2.74	69.6	0.075	1.91	2.89	73.4	8022	11953	9477	14121
11298.517500*	3	1000	3x3/0	0.080	2.03	3.07	78.0	0.075	1.91	3.24	82.3	10629	15837	12322	18360

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

Duralox®

EPR/AIA/PVC, Power, Nonshielded, Armored
2400 V, UL Type MV-90 or MC, Three Conductor

Product Construction:

Conductors:

- 6 AWG thru 1000 kcmil bare copper, compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR), colored to contrast with black conducting shield layer

Ground:

- Annealed bare copper Class B stranding per ASTM B8

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

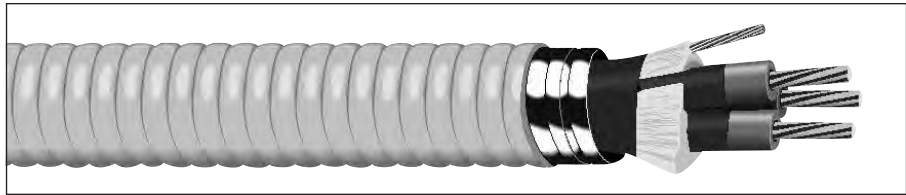
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), yellow

Print:

- GENERAL CABLE® SIZE (KCMIL OR AWG)
COMPACT CU 3/C GENERAL CABLE 115 MILS
EPR TYPE MV-90 OR MC 3/C SIZE AWG GRD
SUN RES FOR CT USE DIR BUR 2400 V NON-SHIELDED (UL) MONTH-YEAR LIGHTNING BOLT SYMBOL SEQUENTIAL FOOTAGE MARK

Options:

- Other constructions available upon request



Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is the major concern, maximum performance will be demanded, space is limited, ease of installation is critical and fire resistance is necessary
- May be installed in wet or dry locations, indoors or outdoors and in exposed or concealed work
- May be used in cable trays or on approved supports in protected areas
- Permitted for use in Class I; Class II, Division 2; and Class III, Divisions 1 and 2 hazardous locations per the NEC

Features:

- Rated at 90°C wet or dry
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical- and radiation-resistant
- Excellent crush resistance
- Flame or sunlight resistance
- Cost-effective alternative to installations in conduit
- Meets the cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1569
- UL 1072
- ICEA S-96-659/NEMA WC71
- UL Type MV-90, UL File # E90501
- UL Type MC, UL File # E90496

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. DIA. INCHES	GRND. WIRE SIZE (AWG)	MINIMUM INSULATION THICKNESS		NOM. DIA. (OVER) ARMOR		NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
6 AWG - 1000 kcmil - THREE CONDUCTOR - 115 MILS INS. (2.92 mm) - 2400 V																
17471.580600	3	6	0.17	6	0.115	2.92	1.16	29.4	0.050	1.27	1.27	32.2	327	487	854	1272
17471.580400	3	4	0.21	6	0.115	2.92	1.26	31.9	0.050	1.27	1.37	34.7	473	704	1056	1572
17471.580200	3	2	0.27	6	0.115	2.92	1.37	34.8	0.050	1.27	1.48	37.6	703	1047	1363	2030
17471.585100*	3	1/0	0.34	4	0.115	2.92	1.61	41.0	0.060	1.52	1.74	44.3	1118	1665	2003	2982
17471.585200	3	2/0	0.38	4	0.115	2.92	1.71	43.3	0.060	1.52	1.84	46.6	1376	2049	2326	3463
17471.585400	3	4/0	0.48	3	0.115	2.92	1.92	48.7	0.060	1.52	2.05	52.0	2143	3191	3256	4848
17471.586000*	3	250	0.52	3	0.115	2.92	2.00	50.7	0.060	1.52	2.13	54.1	2503	3727	3689	5493
17471.586200	3	350	0.62	2	0.115	2.92	2.21	56.0	0.060	1.52	2.34	59.3	3479	5180	4825	7184
17471.586500	3	500	0.74	1	0.115	2.92	2.46	62.6	0.075	1.91	2.63	66.7	4933	7345	6567	9778
17471.587000*	3	750	0.91	1/0	0.115	2.92	2.83	72.0	0.075	1.91	3.00	76.1	7347	10940	9320	13877
17471.587500*	3	1000	1.07	1/0	0.115	2.92	3.16	80.3	0.085	2.16	3.35	85.0	9680	14414	12023	17902

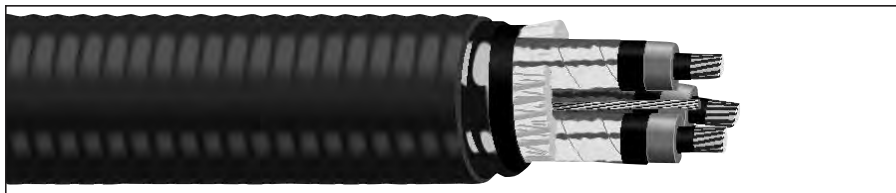
Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

Duralox® Uniblend®

EPR/AIA/PVC, Power, Shielded, Armored

5 kV/8 kV, UL Type MV-105 or MC, 133%/100% Ins. Levels, 115 Mils, Three Conductor



Product Construction:

Conductors:

- 6 AWG thru 1000 kcmil bare, copper compact Class B strand

Extruded Strand Shield (ESS):

- Thermoset semi-conducting extruded stress control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:

- 5 mil annealed copper tape with a minimum 25% overlap

Ground:

- Annealed bare copper Class B stranding per ASTM B8

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), yellow

Print:

- GENERAL CABLE® SIZE (KCMIL OR AWG) COMPACT CU 3/C (INS THICKNESS) MILS EPR TYPE MV-105 OR MC 3/C SIZE AWG GRD VOLTAGE kV% INS LEVEL SUN RES FOR CT USE DIR BUR (UL) LIGHTING BOLT SYMBOL MONTH-YEAR SEQUENTIAL FOOTAGE MARK

Options:

- Other constructions available upon request

Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is the major concern, maximum performance is demanded, space is limited, ease of installation is critical and fire resistance is necessary
- Installed in wet or dry locations, indoors or outdoors, in exposed or concealed work
- May be used in cable trays or on approved support in protected areas
- Permitted for use in Class I; Class II, Division 2; and Class III, Divisions 1 and 2 hazardous locations per the NEC

Features:

- Rated at 105°C wet or dry
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical- and radiation-resistant
- Excellent crush resistance
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1072
- ICEA S-93-639/NEMA WC74
- AEIC CS8
- UL Type MV-105, UL File # E90501
- UL Type MC, UL File # E90496

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. DIA. INCHES	INSULATION DIAMETER			GRND. WIRE SIZE (AWG)	NOM. DIA. (OVER) ARMOR		NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT W/AL ARMOR	
				MIN. INCHES	mm	MAX. INCHES		mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT

6 AWG - 1000 kcmil - THREE CONDUCTOR -

W/JACKET OVER ARMOR, 5 kV, 133% INS. LEVEL OR 8 kV, 100% INS. LEVEL, 115 MILS INS. (2.92 mm)

17473.530600*	3	6	0.17	0.42	10.5	0.49	12.5	6	1.33	33.8	0.050	1.27	1.44	36.6	462	688	1133	1687
17473.530400*	3	4	0.21	0.46	11.6	0.54	13.7	6	1.43	36.2	0.050	1.27	1.54	39.1	619	922	1354	2016
17473.530200	3	2	0.27	0.51	13.0	0.59	14.9	6	1.64	41.6	0.060	1.52	1.77	44.9	864	1286	1819	2708
17473.535100*	3	1/0	0.34	0.58	14.7	0.66	16.7	4	1.79	45.3	0.060	1.52	1.92	48.6	1298	1933	2364	3520
17473.535200	3	2/0	0.38	0.62	15.7	0.70	17.7	4	1.87	47.5	0.060	1.52	2.00	50.8	1566	2332	2696	4014
17473.535400	3	4/0	0.48	0.72	18.3	0.80	20.3	3	2.09	53.2	0.060	1.52	2.22	56.5	2360	3514	3687	5490
17473.536000*	3	250	0.52	0.77	19.6	0.85	21.5	3	2.21	56.0	0.060	1.52	2.34	59.3	2735	4072	4165	6202
17473.536200	3	350	0.62	0.87	22.1	0.95	24.1	2	2.41	61.3	0.075	1.91	2.57	65.4	3736	5563	5436	8094
17473.536500	3	500	0.74	0.99	25.1	1.07	27.1	1	2.64	67.0	0.075	1.91	2.84	72.0	5222	7776	7170	10676
17473.537000*	3	750	0.91	1.17	29.7	1.25	31.8	1/0	3.06	77.8	0.085	2.16	3.25	82.4	7684	11441	10084	15015
17473.537500*	3	1000	1.07	1.33	33.8	1.40	35.6	1/0	3.39	86.1	0.085	2.16	3.57	90.8	10057	14975	12793	19049

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

Duralox® Uniblend®

EPR/AIA/PVC, Power, Shielded, Armored

15 kV, UL Type MV-105 or MC, 133% Ins. Level, 220 Mils, Three Conductor

Product Construction:

Conductors:

- 2 AWG thru 1000 kcmil bare, copper compact Class B strand

Extruded Strand Shield (ESS):

- Thermoset semi-conducting extruded stress control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:

- 5 mil annealed copper tape with a minimum 25% overlap

Ground:

- Annealed bare copper Class B stranding per ASTM B8

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

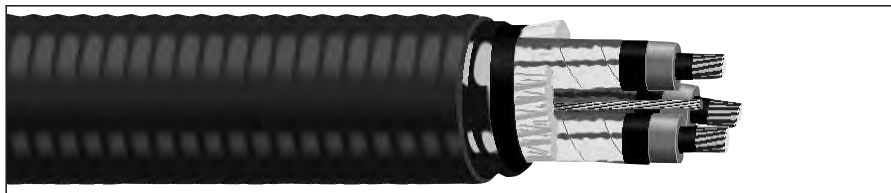
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Print:

- GENERAL CABLE® SIZE (KCMIL OR AWG)
COMPACT CU 3/C (INS THICKNESS) MILS
EPR TYPE MV-105 OR MC 3/C SIZE AWG GRD
VOLTAGE kV% INS LEVEL SUN RES FOR CT
USE DIR BUR (UL) LIGHTING BOLT SYMBOL
MONTH-YEAR SEQUENTIAL FOOTAGE MARK

Options:

- Other constructions available upon request



Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is the major concern, maximum performance is demanded, space is limited, ease of installation is critical and fire resistance is necessary
- Installed in wet or dry locations, indoors or outdoors, in exposed or concealed work
- May be used in cable trays or on approved support in protected areas
- Permitted for use in Class I; Class II, Division 2; and Class III, Divisions 1 and 2 hazardous locations per the NEC

Features:

- Rated at 105°C wet or dry
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical- and radiation-resistant
- Excellent crush resistance
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1072
- ICEA S-93-639/NEMA WC74
- AEIC CS8
- UL Type MV-105, UL File # E90501
- UL Type MC, UL File # E90496

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/)	COND. DIA. INCHES	INSULATION DIAMETER				GRND. WIRE SIZE (AWG)	NOM. DIA. (OVER) ARMOR		NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT W/AL ARMOR	
				MIN. INCHES	mm	MAX. INCHES	mm		INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km

**2 AWG - 1000 kcmil - THREE CONDUCTOR -
W/JACKET OVER ARMOR, 15 kV, 133% INS. LEVEL, 220 MILS INS. (5.59 mm)**

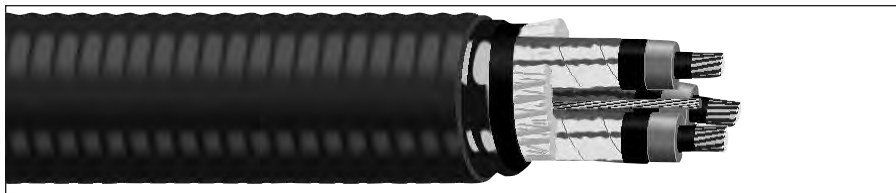
17476.530200	3	2	0.27	0.71	18.0	0.80	20.3	6	2.08	52.8	0.060	1.52	2.21	56.1	919	1368	2416	3597
17476.535100*	3	1/0	0.34	0.78	19.8	0.87	22.0	4	2.22	56.5	0.060	1.52	2.35	59.8	1352	2013	2997	4463
17476.535200	3	2/0	0.38	0.82	20.8	0.91	24.3	4	2.31	58.7	0.060	1.52	2.44	62.0	1620	2412	3371	5019
17476.535400	3	4/0	0.48	0.92	23.4	1.01	25.6	3	2.53	64.3	0.075	1.91	2.70	68.5	2114	3594	4502	6703
17476.536000*	3	250	0.53	0.97	24.6	1.06	26.9	3	2.65	67.2	0.075	1.91	2.81	71.3	2789	4153	5005	7452
17476.536200	3	350	0.62	1.07	27.2	1.16	29.4	2	2.85	72.4	0.075	1.91	3.01	76.6	3790	5643	6252	9309
17476.536500	3	500	0.74	1.19	30.2	1.28	32.4	1	3.11	79.0	0.085	2.16	3.30	83.7	5276	7856	8091	12047
17476.537000*	3	750	0.91	1.37	34.8	1.46	37.1	1/0	3.50	89.0	0.085	2.16	3.69	93.6	7738	11522	11086	16507
17476.537500*	3	1000	1.06	1.52	38.6	1.61	40.9	1/0	3.83	97.3	0.085	2.16	4.01	101.9	10111	15055	13870	20652

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

Duralox® Uniblend®

EPR/AIA/PVC, Power, Shielded, Armored, with Enhanced Ground Wires (50%)
15 kV, UL Type MV-105 or MC, 133% Ins. Level, 220 Mils, Three Conductor



Product Construction:

Conductors:

- 1/0 AWG thru 1000 kcmil bare, copper compact Class B strand

Extruded Strand Shield (ESS):

- Thermoset semi-conducting extruded stress control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:

- 5 mil annealed copper tape with a minimum 25% overlap

Ground:

- Annealed bare copper Class B stranding per ASTM B8

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Print:

- GENERAL CABLE® SIZE (KCMIL OR AWG) COMPACT CU 3/C (INS THICKNESS) MILS EPR TYPE MV-105 OR MC 3/C SIZE AWG GRD VOLTAGE kV% INS LEVEL SUN RES FOR CT USE DIR BUR (UL) LIGHTING BOLT SYMBOL MONTH-YEAR SEQUENTIAL FOOTAGE MARK

Options:

- Other constructions available upon request

Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is the major concern, maximum performance is demanded, space is limited, ease of installation is critical and fire resistance is necessary
- Installed in wet or dry locations, indoors or outdoors, in exposed or concealed work
- May be used in cable trays or on approved support in protected areas
- Permitted for use in Class I; Class II, Division 2; and Class III, Divisions 1 and 2 hazardous locations per the NEC

Features:

- Rated at 105°C wet or dry
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical- and radiation-resistant
- Excellent crush resistance
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1072
- ICEA S-93-639/NEMA WC74
- AEIC CS8
- UL Type MV-105, UL File # E90501
- UL Type MC, UL File # E90496

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. DIA. INCHES	INSULATION DIAMETER				GRND. WIRE SIZE (AWG)	NOM. DIA. (OVER) ARMOR		NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT W/AL ARMOR	
				MIN. INCHES	mm	MAX. INCHES	mm		INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000FT	kg/ km	LBS/ 1000FT	kg/ km

**1/0 AWG - 1000 kcmil - THREE CONDUCTOR -
W/JACKET OVER ARMOR, 15 kV, 133% INS. LEVEL, 220 MILS INS. (5.59 mm)**

17476.515100*	3	1/0	0.34	0.78	19.8	0.87	22.0	3x6	2.22	56.5	0.060	1.52	2.35	59.8	1469	2187	3119	4644
17476.515200*	3	2/0	0.38	0.82	20.8	0.91	24.3	3x6	2.31	58.7	0.060	1.52	2.44	62.0	1748	2603	3499	5210
17476.515400*	3	4/0	0.48	0.92	23.4	1.01	25.6	3x4	2.53	64.3	0.075	1.91	2.70	68.5	2661	3962	4752	7076
17476.516000*	3	250	0.53	0.97	24.6	1.06	26.9	3x4	2.65	67.2	0.075	1.91	2.81	71.3	3145	4683	5265	7840
17476.516200*	3	350	0.62	1.07	27.2	1.16	29.4	3x2	2.85	72.4	0.075	1.91	3.01	76.6	4212	6272	6674	9938
17476.516500	3	500	0.74	1.19	30.2	1.28	32.4	3x1	3.11	79.0	0.085	2.16	3.30	83.7	5807	8647	8550	12731
17476.517000*	3	750	0.91	1.37	34.8	1.46	37.1	3x2/0	3.50	89.0	0.085	2.16	3.69	93.6	8574	12767	11932	17767
17476.517500*	3	1000	1.06	1.52	38.6	1.61	40.9	3x3/0	3.83	97.3	0.085	2.16	4.01	101.9	11198	16674	14957	22271

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



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Duralox® Uniblend®

EPR/AIA/PVC, Power, Shielded, Armored

25 kV, UL Type MV-105 or MC, 100% Ins. Level, 260 Mils, Three Conductor

Product Construction:

Conductors:

- 1/0 AWG thru 1000 kcmil bare, copper compact Class B strand

Extruded Strand Shield (ESS):

- Thermoset semi-conducting extruded stress control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:

- 5 mil annealed copper tape with a minimum 25% overlap

Ground:

- Annealed bare copper Class B stranding per ASTM B8

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

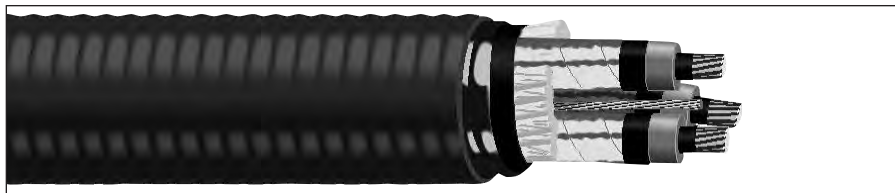
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Print:

- GENERAL CABLE® SIZE (KCMIL OR AWG)
COMPACT CU 3/C (INS THICKNESS) MILS
EPR TYPE MV-105 OR MC 3/C SIZE AWG GRD
VOLTAGE kV% INS LEVEL SUN RES FOR CT
USE DIR BUR (UL) LIGHTING BOLT SYMBOL
MONTH-YEAR SEQUENTIAL FOOTAGE MARK

Options:

- Other constructions available upon request



Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is the major concern, where maximum performance is demanded, space is limited, ease of installation is critical and fire resistance is necessary
- Installed in wet or dry locations, indoors or outdoors, in exposed or concealed work
- May be used in cable trays or on approved support in protected areas
- Permitted for use in Class I; Class II, Division 2; and Class III, Divisions 1 and 2 hazardous locations per the NEC

Features:

- Rated at 105°C wet or dry
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical- and radiation-resistant
- Excellent crush resistance
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1072
- ICEA S-93-639/NEMA WC74
- AEIC CS8
- UL Type MV-105, UL File # E90501
- UL Type MC, UL File # E90496

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. DIA. INCHES	INSULATION DIAMETER				GRND. WIRE SIZE (AWG)	NOM. DIA. (OVER) ARMOR		NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT W/AL ARMOR	
				MIN. INCHES	mm	MAX. INCHES	mm		INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km

**1/0 AWG - 1000 kcmil - THREE CONDUCTOR -
W/JACKET OVER ARMOR, 25 kV, 100% INS. LEVEL, 260 MILS INS. (6.60 mm)**

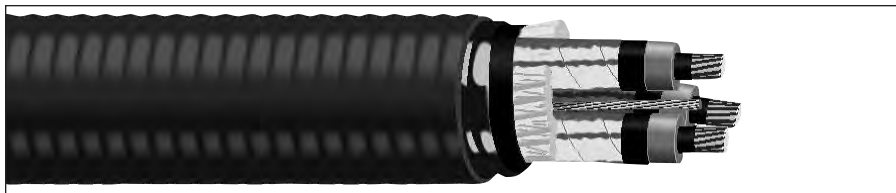
17477.535100*	3	1/0	0.34	0.85	21.6	0.94	23.9	4	2.39	60.8	0.075	1.91	2.56	64.9	1372	2043	3358	5000
17477.535200*	3	2/0	0.38	0.89	22.6	0.98	24.9	4	2.48	63.0	0.075	1.91	2.64	67.1	1641	2443	3743	5573
17477.535400*	3	4/0	0.48	0.99	25.1	1.08	27.4	3	2.70	68.6	0.075	1.91	2.86	72.7	2435	3626	4807	7158
17477.536000*	3	250	0.53	1.04	26.4	1.14	28.8	3	2.81	71.5	0.075	1.91	2.98	75.6	2810	4184	5307	7902
17477.536200*	3	350	0.62	1.14	29.0	1.23	31.2	2	3.02	76.7	0.075	1.91	3.18	80.8	3811	5675	6595	9820
17477.536500*	3	500	0.74	1.26	32.0	1.35	34.3	1	3.28	83.3	0.085	2.16	3.46	88.0	5297	7887	8485	12634
17477.537000*	3	750	0.91	1.44	36.6	1.54	39.0	1/0	3.67	93.2	0.085	2.16	3.85	97.9	7758	11552	11491	17110
17477.517500*	3	1000	1.06	1.59	40.4	1.69	42.8	1/0	4.00	101.5	0.085	2.16	4.18	106.2	10132	15087	14303	21297

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

Duralox® Uniblend®

EPR/AIA/PVC, Power, Shielded, Armored
35 kV, UL Type MV-105 or MC, 100% Ins. Level, 345 Mils, Three Conductor



Product Construction:

Conductors:

- 1/0 AWG thru 750 kcmil bare, copper compact Class B strand

Extruded Strand Shield (ESS):

- Thermoset semi-conducting extruded stress control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:

- 5 mil annealed copper tape with a minimum 25% overlap

Ground:

- Annealed bare copper Class B stranding per ASTM B8

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Print:

- GENERAL CABLE® SIZE (KCMIL OR AWG) COMPACT CU 3/C (INS THICKNESS) MILS EPR TYPE MV-105 OR MC 3/C SIZE AWG GRD VOLTAGE kV% INS LEVEL SUN RES FOR CT USE DIR BUR (UL) LIGHTING BOLT SYMBOL MONTH-YEAR SEQUENTIAL FOOTAGE MARK

Options:

- Other constructions available upon request

Applications:

- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is the major concern, maximum performance is demanded, space is limited, ease of installation is critical and fire resistance is necessary
- Installed in wet or dry locations, indoors or outdoors, in exposed or concealed work
- May be used in cable trays or on approved support in protected areas
- Permitted for use in Class I; Class II, Division 2; and Class III, Divisions 1 and 2 hazardous locations per the NEC

Features:

- Rated at 105°C wet or dry
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical- and radiation-resistant
- Excellent crush resistance
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -25°C

Compliances:

Industry Compliances:

- UL 1072
- ICEA S-93-639/NEMA WC74
- AEIC CS8
- UL Type MV-105, UL File # E90501
- UL Type MC, UL File # E90496

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. DIA. INCHES	INSULATION DIAMETER				GRND. WIRE SIZE (AWG)	NOM. DIA. (OVER) ARMOR		NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT W/AL ARMOR	
				MIN. INCHES	mm	MAX. INCHES	mm		INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km

**1/0 AWG - 750 kcmil - THREE CONDUCTOR -
W/JACKET OVER ARMOR, 35 kV, 100% INS. LEVEL, 345 MILS INS. (8.76 mm)**

17480.535100*	3	1/0	0.34	1.02	25.9	1.12	28.4	4	2.77	70.4	0.075	1.91	2.93	74.5	1419	2113	4063	6050
17480.535200*	3	2/0	0.38	1.06	26.9	1.16	29.5	4	2.86	72.6	0.075	1.91	3.02	76.7	1687	2512	4441	6613
17480.535400*	3	4/0	0.48	1.16	29.5	1.26	32.0	3	3.08	78.2	0.075	1.91	3.24	82.3	2482	3696	5572	8297
17480.536000*	3	250	0.53	1.21	30.7	1.32	33.4	3	3.19	81.1	0.085	2.16	3.38	85.7	2856	4253	6165	9180
17480.536200*	3	350	0.62	1.31	33.3	1.41	35.8	2	3.40	86.3	0.085	2.16	3.58	91.0	3858	5745	7499	11166
17480.536500*	3	500	0.74	1.43	36.3	1.53	38.9	1	3.66	93.0	0.085	2.16	3.83	97.3	5344	7957	9400	13997
17480.537000*	3	750	0.91	1.61	40.9	1.71	43.4	1/0	4.05	102.9	0.085	2.16	4.23	107.5	7805	11622	12843	19123

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355
www.generalcable.com

600 V – 28 kV TECK90 Armored Control and Power Cables

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
8025 [†]	TECK90 XLPE/PVC/AIA/PVC, Control, Armored 600 V, CSA TECK90, Multi-Conductor, 14 AWG	Mar. 2012
8050 [†]	TECK90 XLPE/PVC/AIA/PVC, Control, Armored 600 V, CSA TECK90, Multi-Conductor, 12 AWG	Mar. 2012
8075 [†]	TECK90 XLPE/PVC/AIA/PVC, Control, Armored 600 V, CSA TECK90, Multi-Conductor, 10 AWG	Mar. 2012
8100	TECK90 XLPE/PVC/AIA/PVC, Power, Armored 1000 V, CSA TECK90, Single Conductor	Mar. 2012
8125	TECK90 XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V, CSA TECK90, Two Conductor	Mar. 2012
8150 [†]	TECK90 XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V, CSA TECK90, Three Conductor	Mar. 2012
8175 [†]	TECK90 XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V, CSA TECK90, Four Conductor	Mar. 2012
8200	TECK90 XLPE/PVC/AIA/PVC, Power/Control Composite 600 V, CSA TECK90, Three Power and Three 14 AWG Control Conductors	Mar. 2012
8225	TECK90 XLPE/PVC/AIA/PVC, Power, Unshielded, Armored 5 kV, CSA TECK90, 100%/133% Ins. Levels, Single Conductor	Mar. 2012
8250 [†]	TECK90 XLPE/PVC/AIA/PVC, Power, Unshielded, Armored 5 kV, CSA TECK90, 100%/133% Ins. Levels, Three Conductor	Mar. 2012
8275	HVTECK TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV, CSA HVTECK, 100%/133% Ins. Levels, 90 Mils, Single Conductor	Jan. 2010
8300	HVTECK TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV, CSA HVTECK, 133% Ins. Level, 115 Mils, Single Conductor	Jan. 2010
8325	HVTECK TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV, CSA HVTECK, 100%/133% Ins. Levels, 90 Mils, Three Conductor	Jan. 2010
8350	HVTECK TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV, CSA HVTECK, 133% Ins. Level, 115 Mils, Three Conductor	Jan. 2010
8375	HVTECK TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 100% Ins. Level, 175 Mils, Single Conductor	Jan. 2010
8400	HVTECK TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 133% Ins. Level, 220 Mils, Single Conductor	Jan. 2010
8425	HVTECK TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 100% Ins. Level, 175 Mils, Three Conductor	Jan. 2010

[†]Indicates these products are stocked by General Cable

600 V – 28 kV TECK90 Armored Control and Power Cables

SPECIFICATION NO.		PRODUCT DESCRIPTION	REVISION DATE
8450[†]	HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 133% Ins. Level, 220 Mils, Three Conductor	Apr. 2011
8475	HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 25 kV, CSA HVTECK, 100% Ins. Level, 260 Mils, Three Conductor	Jan. 2010
8500	HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 25 kV, CSA HVTECK, 133% Ins. Level, 320 Mils, Three Conductor	Jan. 2010
8525	HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 28 kV, CSA HVTECK, 133% Ins. Level, 345 Mils, Three Conductor	Jan. 2010
8550	VERTITECK [®] TECK90	XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored 1 kV, CSA TECK90, Three Conductor	Jan. 2010
8575	VERTITECK [®] TECK90	XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored 5 kV, CSA TECK90, 90 Mils, Three Conductor	Jan. 2010
8600	VERTITECK [®] HVTECK	TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 133% Ins. Level, 220 Mils, Three Conductor	Mar. 2010
8625	VERTITECK [®] HVTECK	TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored 15 kV, CSA HVTECK, 100% Ins. Level, 175 Mils, Three Conductor	Jan. 2010
8700[†]	ACWU	XLPE/AIA/PVC, Control, Armored 600 V, CSA ACWU90 (-40°C), Single Conductor	Mar. 2012
8750[†]	ACWU	XLPE/AIA/PVC, Control, Armored 600 V, CSA ACWU90 (-40°C), Three Conductor	Mar. 2012
8775[†]	ACWU	XLPE/AIA/PVC, Control, Armored 600 V, CSA ACWU90 (-40°C), Four Conductor	Mar. 2012

[†]Indicates these products are stocked by General Cable

TECK90

XLPE/PVC/AIA/PVC, Control, Armored
600 V, CSA TECK90, Multi-Conductor, 14 AWG

Product Construction:

Conductors:

- 14 AWG bare copper Class B compressed concentric round to ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 1 to 4 conductors—black, red, blue and white; over 4 conductors—per ICEA Method 4, individual conductors colored black with conductor number surface printed in contrasting ink

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

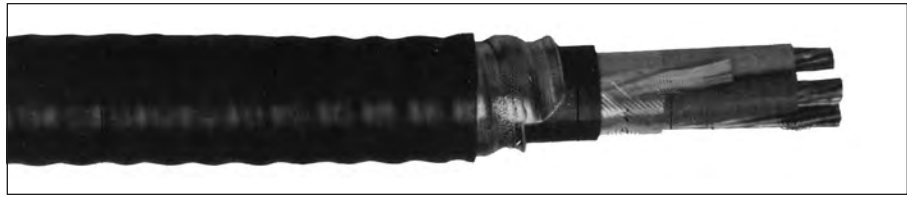
- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE[®] ACID-FLAME-CHECK ✓✓[®] AG14 FT1 FT4 HL TECK90 XLPE (-40°C)#/C SIZE (14 AWG) 600 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK



Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (30°C AMBIENT)
				INSULATION		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	

14 AWG—MULTI-CONDUCTOR—30 MILS INS. (.76 mm), 600 V

780220	2	14	14	0.13	3.4	0.58	14.8	0.67	16.9	39	58	195	310	290	462	25
780250	3	14	14	0.13	3.4	0.60	15.4	0.69	17.4	52	78	226	346	336	515	25
780280	4	14	14	0.13	3.4	0.64	16.2	0.72	18.3	68	101	256	385	381	573	25
794540	5	14	14	0.13	3.4	0.68	17.3	0.76	19.3	81	121	290	430	432	640	20
792940	6	14	14	0.13	3.4	0.72	18.3	0.80	20.3	95	142	316	464	471	691	20
780310	7	14	14	0.13	3.4	0.74	18.8	0.82	20.8	104	155	338	490	503	730	17.5
330090	8	14	14	0.13	3.4	0.79	20.1	0.87	22.2	117	174	373	537	555	799	17.5
792960	10	14	14	0.13	3.4	0.88	22.3	0.96	24.3	149	222	451	637	671	948	17.5
792980	12	14	14	0.13	3.4	0.90	23.0	0.99	25.0	176	262	511	702	761	1045	17.5
793000	15	14	14	0.13	3.4	0.96	24.3	1.04	26.3	217	323	586	791	872	1177	17.5
780290	20	14	14	0.13	3.4	1.13	28.7	1.21	30.8	285	424	789	1117	1174	1662	17.5
308190*	25	14	14	0.13	3.4	1.22	30.9	1.30	33.0	337	502	958	1315	1426	1957	15
333750*	30	14	14	0.13	3.4	1.28	32.5	1.36	34.6	402	599	1015	1390	1511	2069	15
330280*	40	14	14	0.13	3.4	1.40	35.6	1.48	37.7	531	791	1234	1649	1837	2454	15
299980*	50	14	14	0.13	3.4	1.52	38.5	1.60	40.6	661	984	1463	1916	2178	2851	12.5

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

** Ampacity is based on CE Code Part 1, Table 2 for 3 conductors in raceway (conduit). Ampacity of 4 conductor cable is based on 3 current-carrying conductors and 1 neutral.

Ampacity at 5 or more conductors is modified by Table 5C.

TECK90

XLPE/PVC/AIA/PVC, Control, Armored
600 V, CSA TECK90, Multi-Conductor, 12 AWG



Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Meets cold bend and impact tests at -40°C

Compliances:

- Industry Compliances:**
- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Product Construction:

Conductor:

- 12 AWG bare copper Class B compressed concentric round to ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 1 to 4 conductors—black, red, blue and white; over 4 conductors—per ICEA Method 4, individual conductors colored black with conductor number surface printed in contrasting ink

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE[®] ACID-FLAME-CHECK ✓✓[®] AG14 FT1 FT4 HL TECK90 XLPE (-40°C)#/C SIZE (12 AWG) 600 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (30°C AMBIENT)
				INSULATION		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	

12 AWG—MULTI-CONDUCTOR—30 MILS INS. (.76 mm), 600 V

780210	2	12	14	0.15	3.9	0.62	15.8	0.70	17.9	55	82	228	352	340	524	30
780240	3	12	14	0.15	3.9	0.65	16.4	0.73	18.5	75	112	254	386	378	575	30
780320	4	12	14	0.15	3.9	0.69	17.4	0.77	19.5	96	143	293	434	436	646	30
312910	5	12	14	0.15	3.9	0.73	18.5	0.81	20.6	116	173	350	501	521	746	24
331190*	6	12	14	0.15	3.9	0.81	20.5	0.89	22.5	137	204	416	585	619	871	24
315020*	7	12	14	0.15	3.9	0.83	21.0	0.91	23.1	157	234	443	616	660	917	21
311560*	8	12	14	0.15	3.9	0.86	21.7	0.94	23.8	177	264	492	673	732	1002	21
304030*	10	12	14	0.15	3.9	0.95	24.2	1.04	26.2	219	326	555	757	826	1127	21
331130*	12	12	14	0.15	3.9	1.01	25.7	1.10	27.8	261	389	653	942	972	1402	21
312990*	15	12	14	0.15	3.9	1.07	27.2	1.16	29.3	322	480	757	1065	1127	1585	21
299950*	20	12	14	0.15	3.9	1.23	31.3	1.32	33.4	424	631	986	1346	1468	2003	21
307470*	25	12	14	0.15	3.9	1.33	33.8	1.42	35.9	527	785	1210	1602	1801	2384	18
318730*	30	12	14	0.15	3.9	1.40	35.6	1.49	37.7	630	938	1320	1735	1965	2582	18
346880*	40	12	14	0.15	3.9	1.54	39.1	1.64	41.6	837	1246	1725	2185	2567	3252	18
346890*	50	12	14	0.15	3.9	1.67	42.4	1.77	44.9	1044	1553	2055	2556	3058	3804	15

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

** Ampacity is based on CE Code Part 1, Table 2 for 3 conductors in raceway (conduit). Ampacity of 4 conductor cable is based on 3 current-carrying conductors and 1 neutral. Ampacity at 5 or more conductors is modified by Table 5C.



TECK90

XLPE/PVC/AIA/PVC, Control, Armored
600 V, CSA TECK90, Multi-Conductor, 10 AWG

Product Construction:

Conductor:

- 10 AWG bare copper Class B compressed concentric round to ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 1 to 4 conductors—black, red, blue and white; over 4 conductors—per ICEA Method 4, individual conductors colored black with conductor number surface printed in contrasting ink

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE[®] ACID-FLAME-CHECK ✓[®] AG14 FT1 FT4 HL TECK90 XLPE (-40°C)#/C SIZE (10 AWG) 600 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK



Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (30°C AMBIENT)
				INSULATION		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	

10 AWG—MULTI-CONDUCTOR—30 MILS INS. (.76 mm), 600 V

780200	2	10	12	0.18	4.5	0.67	17.0	0.75	19.0	87	130	275	411	410	612	40
780230	3	10	12	0.18	4.5	0.70	17.7	0.78	19.7	119	177	327	470	487	700	40
780270	4	10	12	0.18	4.5	0.74	18.8	0.83	20.9	150	223	413	565	615	841	40
319480*	5	10	12	0.18	4.5	0.82	20.9	0.91	22.9	184	274	473	644	704	959	32
333160*	6	10	12	0.18	4.5	0.88	22.2	0.96	24.3	217	323	515	717	766	1066	32
346870*	7	10	12	0.18	4.5	0.90	22.9	0.99	25.0	248	369	552	754	821	1122	28
318740*	8	10	12	0.18	4.5	0.93	23.6	1.02	25.7	282	420	613	830	912	1235	28
311570*	10	10	12	0.18	4.5	1.08	27.3	1.16	29.4	348	518	828	1181	1232	1757	28
317890*	12	10	12	0.18	4.5	1.15	29.2	1.23	31.3	414	617	916	1276	1363	1899	28
318750*	15	10	12	0.18	4.5	1.22	30.9	1.30	33.0	512	762	1084	1481	1613	2203	28
308180*	20	10	12	0.18	4.5	1.36	34.4	1.44	36.5	675	1005	1316	1750	1958	2604	28
307450*	25	10	12	0.18	4.5	1.47	37.3	1.55	39.4	835	1243	1612	2099	2399	3124	24
293570*	30	10	12	0.18	4.5	1.55	39.4	1.65	41.8	998	1493	1821	2323	2709	3457	24
307460*	40	10	12	0.18	4.5	1.71	43.4	1.81	45.9	1321	1966	2278	2837	3390	4222	24
346900*	50	10	12	0.18	4.5	1.87	47.5	1.97	49.9	1648	2453	2820	3557	4196	5293	20

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

** Ampacity is based on CE Code Part 1, Table 2 for 3 conductors in raceway (conduit). Ampacity of 4 conductor cable is based on 3 current-carrying conductors and 1 neutral.

Ampacity at 5 or more conductors is modified by Table 5C.

TECK90

XLPE/PVC/AIA/PVC, Power, Armored
1000 V, CSA TECK90, Single Conductor



Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil bare copper compact Class B strand

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: black

Ground (Bonding) Conductor:

- The conductor is a concentric serving of solid bare copper wires applied over the insulation

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE[®] ACID-FLAME-CHECK ✓[®] AG14 FT1 FT4 HL TECK90 XLPE (-40°C)1/C SIZE (AWG OR KCMIL) 1000 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK

Options:

- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	MIN. AVG. INS. THICKNESS		NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT		AMPACITY** (30°C AMBIENT)
						INSULATION		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	
						INCHES	mm	INCHES	mm	INCHES	mm					

6 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—1000 V

11288.040600*	1	6	8	.060	1.52	0.31	7.8	0.68	17.3	0.77	19.6	137	204	320	470	105
11288.050400*	1	4	6	.060	1.52	0.35	8.8	0.73	18.6	0.81	20.6	211	314	410	610	140
11288.030300*	1	3	6	.060	1.52	0.38	9.8	0.76	19.3	0.84	21.4	244	363	450	680	165
11288.050200*	1	2	6	.060	1.52	0.42	10.5	0.78	19.8	0.87	22.1	286	426	510	760	190
11288.050100*	1	1	4	.080	2.03	0.49	12.5	0.88	22.4	0.96	24.4	390	581	680	1010	220
11288.035100*	1	1/0	4	.080	2.03	0.53	13.5	0.91	23.2	1.00	25.4	458	682	760	1130	260
11288.035200*	1	2/0	4	.080	2.03	0.58	14.7	0.95	24.1	1.04	26.4	544	810	860	1280	300
11288.035300*	1	3/0	3	.080	2.03	0.63	15.9	1.03	26.2	1.12	28.5	685	1020	1080	1610	350
11288.025400*	1	4/0	3	.080	2.03	0.69	17.5	1.08	27.5	1.17	29.7	820	1220	1270	1890	405
11288.026000*	1	250	2	.090	2.29	0.75	19.2	1.21	30.8	1.29	32.8	980	1459	1490	2210	455
11288.036200*	1	350	1	.090	2.29	0.86	21.7	1.30	33.0	1.39	35.3	1340	1994	1910	2840	570
11288.026500*	1	500	1/0	.090	2.29	0.99	25.0	1.42	36.1	1.51	38.4	1750	2604	2510	3740	700
11288.027000*	1	750	2/0	.090	2.29	1.16	29.4	1.59	40.4	1.69	43.0	2570	3825	3510	5230	885
11288.027500*	1	1000	2/0	.090	2.29	1.31	33.2	1.81	46.0	1.90	48.3	3340	4970	4430	6590	1055

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on CE Code Part 1, Table 1 (single conductor in free air) and Rule 4-004.

TECK90

XLPE/PVC/AIA/PVC, Control and Power, Armored
1000 V, CSA TECK90, Two Conductor

Product Construction:

Conductor:

- 14 AWG thru 8 AWG bare copper Class B compressed concentric round to ASTM B8
- 6 AWG thru 1000 kcmil bare copper compact Class B strand

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 14 AWG to 2 AWG—black and white; 1 AWG to 1000 kcmil—printed numbers

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE® ACID-FLAME-CHECK ✓[®] AG14 FT1 FT4 HL TECK90 XLPE (-40°C) 2/C SIZE (AWG OR KCMIL) 1000 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK



Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	MIN. AVG. INS. THICKNESS		NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (30°C AMBIENT)
						INSULATION		ARMOR		CABLE				LBS/1000 FT		kg/km		
						INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	AL	STEEL	

14 AWG THRU 1000 kcmil—TWO CONDUCTOR—1000 V

794520*	2	14	14	.045	1.14	0.17	4.2	0.65	16.5	0.73	18.5	39	58	219	350	326	521	25
308550*	2	12	14	.045	1.14	0.18	4.6	0.69	17.6	0.77	19.6	55	82	255	412	380	613	30
793140*	2	10	12	.045	1.14	0.21	5.3	0.73	18.5	0.81	20.6	86	128	291	441	433	657	40
331260*	2	8	10	.045	1.14	0.24	6.1	0.82	20.8	0.90	22.9	137	204	392	564	584	840	55
11206.332083*	2	6	8	.060	1.52	0.31	7.8	0.94	23.9	1.02	25.9	215	320	556	758	827	1128	75
11288.040400*	2	4	8	.060	1.52	0.35	8.8	1.07	27.2	1.16	29.5	312	464	744	1052	1107	1565	95
11288.220300*	2	3	6	.060	1.52	0.38	9.8	1.15	29.2	1.23	31.3	415	618	905	1239	1347	1844	115
11288.040200*	2	2	6	.060	1.52	0.42	10.5	1.20	30.5	1.28	32.5	502	747	1030	1380	1533	2054	130
11288.020100*	2	1	6	.080	2.03	0.49	12.5	1.34	34.0	1.42	36.1	612	911	1235	1630	1838	2425	145
11288.045100*	2	1/0	6	.080	2.03	0.53	13.5	1.45	36.8	1.53	38.9	740	1101	1425	1854	2120	2759	170
11288.045200*	2	2/0	6	.080	2.03	0.58	14.8	1.50	38.1	1.58	40.1	922	1372	1660	2107	2470	3135	195
11288.045300*	2	3/0	4	.080	2.03	0.63	15.9	1.59	40.4	1.69	42.9	1190	1771	1995	2471	2969	3677	225
11288.145400*	2	4/0	4	.080	2.03	0.69	17.5	1.70	43.2	1.79	45.5	1466	2182	2350	2862	3497	4259	260
11288.226000*	2	250	4	.090	2.29	0.75	19.2	1.84	46.8	1.93	49.0	1709	2543	2779	3332	4135	4958	290
11288.226200*	2	350	3	.090	2.29	0.86	21.7	2.09	53.1	2.18	55.4	2373	3561	3650	4285	5431	6376	350
11288.226500*	2	500	3	.090	2.29	0.99	25.0	2.33	59.2	2.45	62.2	3316	4935	4895	5607	7284	8343	430
11288.227000*	2	750	2	.090	2.29	1.16	29.4	2.67	67.8	2.79	70.9	4941	7353	6872	7695	10226	11450	535
11288.227500*	2	1000	1	.090	2.29	1.31	33.2	2.98	75.7	3.10	78.8	6562	9766	8993	10376	13382	15439	615

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on CE Code Part 1, Table 2 (Three conductors in raceway [conduit]) and Rule 4-004.



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TECK90

XLPE/PVC/AIA/PVC, Control and Power, Armored
1000 V, CSA TECK90, Three Conductor



Features:

- Rated at 90°C wet or dry
- Excellent crush resistance, oil and chemical resistance
- Provides long service life
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:
• CSA Standard C22.2 No. 131 and No. 174

- Flame Test Compliances:**
- CSA FT1 and FT4
 - IEEE 383 (70,000 BTU/hr)
 - UL 1581 (70,000 BTU/hr)
 - IEEE 1202 (70,000 BTU/hr) CSA FT4
 - ICEA T-30-520 (70,000 BTU/hr)

- Other Compliances:**
- Hazardous Location Rating: HL
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP method
 - OSHA Acceptable

Product Construction:

Conductor:

- 14 AWG thru 8 AWG bare copper Class B compressed concentric round to ASTM B8
- 6 AWG thru 1000 kcmil bare copper compact Class B strand

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 14 AWG to 2 AWG—black, red and blue; 1 AWG to 1000 kcmil—printed numbers

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓ flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE® ACID-FLAME-CHECK ✓✓ AG14 FT1 FT4 HL TECK90 XLPE (-40°C) 3/C SIZE (AWG OR KCMIL) 1000 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	MIN. AVG. INS. THICKNESS		NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (30°C AMBIENT)
						INSULATION		ARMOR		CABLE				LBS/1000 FT		kg/km		
						INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	AL	STEEL	

14 AWG THRU 1000 kcmil—THREE CONDUCTOR—1000 V

330520*	3	14	14	.045	1.14	0.17	4.2	0.67	17.0	0.76	19.3	52	77	261	398	388	592	25
780260	3	12	14	.045	1.14	0.18	4.6	0.72	18.3	0.80	20.3	75	112	299	445	445	662	30
331120	3	10	12	.045	1.14	0.21	5.3	0.79	20.1	0.88	22.4	124	185	374	539	557	802	40
793200	3	8	10	.045	1.14	0.24	6.1	0.86	21.9	0.94	23.9	189	281	486	666	723	991	55
11288.010600	3	6	8	.060	1.52	0.31	7.8	1.03	26.2	1.13	28.7	300	447	724	836	1078	1244	75
11288.010400	3	4	8	.060	1.52	0.35	8.8	1.16	29.5	1.25	31.8	447	665	970	1327	1444	1975	95
11288.010300	3	3	6	.060	1.52	0.38	9.8	1.22	31.0	1.30	33.0	582	866	1136	1509	1691	2246	115
11288.010200	3	2	6	.060	1.52	0.42	10.5	1.28	32.5	1.37	34.8	710	1056	1311	1702	1951	2533	130
11288.010100	3	1	6	.080	2.03	0.49	12.5	1.44	36.6	1.54	39.1	866	1288	1593	2045	2371	3043	145
11288.015100	3	1/0	6	.080	2.03	0.53	13.5	1.56	39.6	1.68	42.7	1069	1590	1906	2389	2837	3555	170
11288.015200	3	2/0	6	.080	2.03	0.58	14.8	1.65	41.9	1.77	45.0	1327	1974	2225	2732	3311	4066	195
11288.015300	3	3/0	4	.080	2.03	0.63	15.9	1.75	44.5	1.87	47.5	1670	2485	2666	3261	3967	4853	225
11288.015400	3	4/0	4	.080	2.03	0.69	17.5	1.86	47.2	1.98	50.3	2109	3138	3207	3806	4772	5664	260
11288.016000	3	250	4	.090	2.29	0.75	19.2	2.05	52.1	2.17	55.1	2470	3675	3800	4513	5655	6716	290
11288.016200	3	350	3	.090	2.29	0.86	21.7	2.26	57.4	2.40	61.0	3437	5114	4979	5906	7409	8789	350
11288.016500	3	500	3	.090	2.29	0.99	25.0	2.52	64.0	2.66	67.6	4839	7200	6586	7627	9798	11349	430
11288.017000*	3	750	2	.090	2.29	1.16	29.4	2.89	73.4	3.03	77.0	7225	10751	9267	10470	13790	15580	535
11288.017500*	3	1000	1	.090	2.29	1.31	33.2	3.28	83.3	3.44	87.4	9612	14303	12184	13566	18130	20187	615

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on CE Code Part 1, Table 2 (Three conductors in raceway [conduit]) and Rule 4-004.



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TECK90

XLPE/PVC/AIA/PVC, Control and Power, Armored
1000 V, CSA TECK90, Four Conductor

Product Construction:

Conductor:

- 14 AWG thru 8 AWG bare copper Class B compressed concentric round to ASTM B8
- 6 AWG thru 1000 kcmil bare copper compact Class B strand

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 14 AWG to 2 AWG—black, red, blue and white; 1 AWG to 1000 kcmil—printed numbers

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

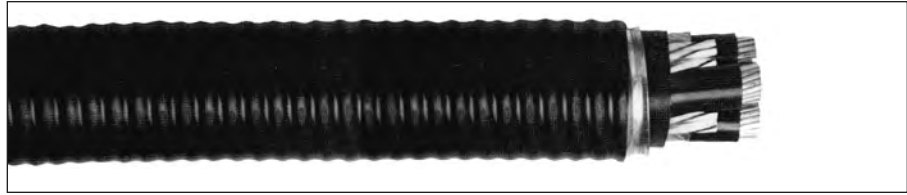
- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE[®] ACID-FLAME-CHECK ✓[®] AG14 FT1 FT4 HL TECK90 XLPE (-40°C) 4/C SIZE (AWG OR KCMIL) 1000 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK



Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	MIN. AVG. INS. THICKNESS		NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (30°C AMBIENT)
						INSULATION		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
						INCHES	mm	INCHES	mm	INCHES	mm			INCHES	mm	AL	STEEL	

14 AWG THRU 1000 kcmil—FOUR CONDUCTOR—1000 V

32194*	4	14	14	.045	1.14	0.17	4.2	0.72	18.3	0.80	20.3	68	101	290	440	430	660	25
793180*	4	12	14	.045	1.14	0.18	4.6	0.79	20.1	0.88	22.4	96	143	357	521	531	776	30
793160*	4	10	12	.045	1.14	0.21	5.3	0.85	21.6	0.93	23.6	150	223	455	632	677	941	40
331250	4	8	10	.045	1.14	0.24	6.1	0.92	23.4	1.00	25.4	241	359	548	736	816	1096	55
11288.030600	4	6	8	.060	1.52	0.31	7.8	1.15	29.2	1.25	31.8	383	570	907	1261	1350	1877	75
11288.020400	4	4	8	.060	1.52	0.35	8.8	1.26	32.0	1.35	34.3	579	862	1168	1558	1738	2319	95
11288.020300	4	3	6	.060	1.52	0.38	9.8	1.31	33.3	1.40	35.6	748	1113	1373	1782	2043	2652	115
11288.020200	4	2	6	.060	1.52	0.42	10.5	1.37	34.8	1.46	37.1	919	1368	1583	2013	2356	2996	130
11288.040100	4	1	6	.080	2.03	0.49	12.5	1.60	40.6	1.72	43.7	1128	1679	2032	2551	3024	3796	145
11288.025100	4	1/0	6	.080	2.03	0.53	13.5	1.69	42.9	1.81	46.0	1398	2081	2365	2914	3520	4336	170
11288.025200	4	2/0	6	.080	2.03	0.58	14.8	1.79	45.5	1.91	48.5	1742	2593	2745	3331	4085	4957	195
11288.025300	4	3/0	4	.080	2.03	0.63	15.9	1.91	48.5	2.03	51.6	2223	3308	3398	4135	5057	6153	225
11288.045400	4	4/0	4	.080	2.03	0.69	17.5	2.09	53.1	2.21	56.1	2769	4121	4170	4983	6205	7415	260
11288.046000	4	250	4	.090	2.29	0.75	19.2	2.23	56.7	2.35	59.7	3249	4835	4789	5661	7126	8424	290
11288.026200	4	350	3	.090	2.29	0.86	21.7	2.46	62.5	2.60	66.0	4528	6738	6307	7264	9385	10809	350
11288.036500*	4	500	3	.090	2.29	0.99	25.0	2.76	70.1	2.90	73.7	6395	9516	8438	9515	12556	14159	430
11288.057000*	4	750	2	.090	2.29	1.16	29.4	3.24	82.3	3.42	86.9	9564	14232	12411	13683	18468	20360	535
11288.037500*	4	1000	1	.090	2.29	1.31	33.2	3.65	92.7	3.84	97.6	12885	19173	15800	23510	23500	34968	615

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on CE Code Part 1, Table 2 (Three conductors in raceway [conduit]) and Rule 4-004.

Ampacity of 4 conductor cable is based on 3 current-carrying conductors and 1 neutral.



Phone: 888-593-3355
www.generalcable.com



TECK90

XLPE/PVC/AIA/PVC, Power/Control Composite
600 V, CSA TECK90, Three Power and Three 14 AWG Control Conductors



Product Construction:

Conductor:

- 12 AWG thru 8 AWG bare copper Class B compressed concentric round to ASTM B8
- 6 AWG thru 4/0 AWG bare copper compact Class B strand

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 14 AWG to 2 AWG—black, red and blue; 1 AWG to 4/0 AWG—printed numbers

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE® ACID-FLAME-CHECK ✓✓® AG14 FT1 FT4 HL TECK90 XLPE (-40°C)3/C SIZE (AWG) +3/C #14 AWG 600 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	MIN. AVG. INS. THICKNESS		NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** POWER COND. (30°C AMBIENT)
						INSULATION		ARMOR		CABLE				LBS/1000 FT		kg/km		
						INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	AL	STEEL	

12 AWG THRU 4/0 AWG—THREE POWER CONDUCTORS AND THREE 14 AWG CONTROL CONDUCTORS—30 MILS (.76 mm)—600 V

333410*†	3	12	14	.030	0.76	0.15	3.9	0.78	19.8	0.86	21.8	114	170	356	519	530	789	30
311320*†	3	10	12	.030	0.76	0.18	4.5	0.81	20.6	0.89	22.6	158	235	416	586	619	921	40
311330*†	3	8	10	.045	1.14	0.24	6.1	0.95	24.0	1.00	25.4	208	310	541	729	805	1198	55
11288.210600*	3	6	8	.045	1.14	0.28	7.0	0.99	25.0	1.20	30.5	338	503	696	896	1035	1540	75
11288.210400*	3	4	8	.045	1.14	0.32	8.2	1.14	28.8	1.25	31.8	485	722	972	1293	1446	2151	95
11288.210200*	3	2	6	.045	1.14	0.38	9.7	1.27	32.3	1.39	35.2	747	1112	1295	1662	1927	2868	130
11288.210100*	3	1	6	.055	1.40	0.44	11.1	1.39	35.2	1.50	38.1	911	1356	1539	1941	2290	3408	145
11288.215100*	3	1/0	6	.055	1.40	0.48	12.2	1.47	37.3	1.59	40.3	1117	1662	1798	2227	2676	3982	170
11288.215200*	3	2/0	6	.055	1.40	0.53	13.3	1.57	39.8	1.71	43.3	1378	2051	2150	2609	3199	4760	195
11288.215300*	3	3/0	4	.055	1.40	0.58	17.1	1.68	42.5	1.82	46.1	1753	2609	2592	3087	3857	5740	225
11288.215400*	3	4/0	4	.055	1.40	0.63	16.0	1.80	45.7	1.94	49.1	2167	3225	3080	3615	4583	6820	260

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

†Contact Customer Service for steel catalog number.

**Ampacity is based on CE Code Part 1, Table 2 (Three conductors in raceway [conduit]) and Rule 4-004.

TECK90

XLPE/PVC/AIA/PVC, Power, Unshielded, Armored
5 kV, CSA TECK90, 100%/133% Ins. Levels, Single Conductor

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting shield is extruded over the conductor

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: black

Ground (Bonding) Conductor:

- The conductor is a concentric serving of solid bare copper wires applied over the insulation

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

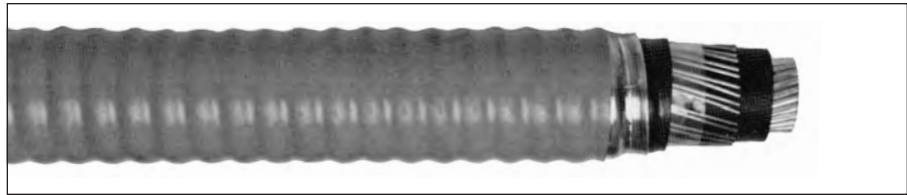
- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Print:

- GENERAL CABLE[®] ACID-FLAME-CHECK ✓✓[®] AG14 FT1 FT4 HL TECK90 XLPE (-40°C)1/C SIZE (AWG OR KCMIL) 5 kV DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK



Options:

- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/AL ARMOR		AMPACITY** (30°C AMBIENT)
				INSULATION		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	
				INCHES	mm	INCHES	mm	INCHES	mm					
6 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—UNSHIELDED—90 MILS INS. (2.29 mm)—5 kV														
17496.100600*	1	6	8	0.39	10.0	0.76	19.3	0.85	21.6	143	213	370	550	105
17496.100400*	1	4	6	0.43	10.5	0.84	21.4	0.93	23.7	223	332	490	730	140
17496.100300*	1	3	6	0.46	11.7	0.86	21.9	0.95	24.2	229	341	540	800	165
17496.100200*	1	2	6	0.49	12.5	0.89	22.6	0.98	24.9	301	448	590	890	190
17496.100100*	1	1	4	0.52	13.3	0.93	23.6	1.02	25.9	405	603	720	1060	220
17496.105100*	1	1/0	4	0.56	14.2	0.96	24.4	1.06	26.9	474	705	800	1190	260
17496.105200*	1	2/0	4	0.60	15.2	1.03	26.2	1.13	28.7	561	835	900	1350	300
17496.105300*	1	3/0	3	0.64	16.3	1.08	27.5	1.18	30.0	708	1054	1130	1680	350
17496.105400*	1	4/0	3	0.70	17.8	1.16	29.5	1.26	32.0	847	1261	1330	1970	405
17496.106000*	1	250	2	0.75	19.1	1.24	31.5	1.34	34.1	1012	1506	1530	2280	455
17496.106200*	1	350	1	0.85	21.5	1.34	34.0	1.44	36.6	1388	2066	1960	2910	570
17496.106500*	1	500	1/0	0.97	24.6	1.49	37.9	1.59	40.4	1548	2304	2570	3830	700
17496.107000*	1	750	2/0	1.15	29.2	1.68	42.7	1.78	45.2	2243	3338	3900	5800	885
17496.107500*	1	1000	2/0	1.30	33.0	1.86	47.3	1.96	49.8	2819	4195	4930	7340	1055

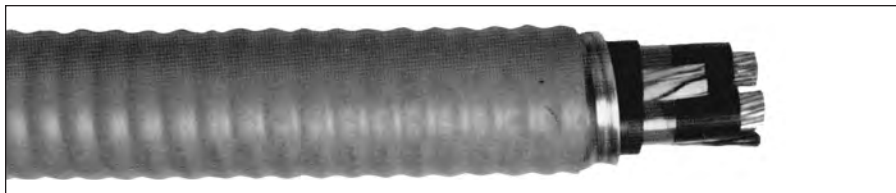
Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on CE Code Part 1, Table 1 (single conductor in free air) and Rule 4-004.

TECK90

XLPE/PVC/AIA/PVC, Power, Unshielded, Armored
5 kV, CSA TECK90, 100%/133% Ins. Levels, Three Conductor



Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting shield is extruded over the conductor

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: printed numbers

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Print:

- GENERAL CABLE® ACID-FLAME-CHECK ✓✓® AG14 FT1 FT4 HL TECK90 XLPE (-40°C)3/C SIZE (AWG OR KCMIL) 5 kV DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (30°C AMBIENT)
				INSULATION		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	
6 AWG THRU 1000 kcmil—THREE CONDUCTOR—UNSHIELDED—90 MILS INS. (2.29 mm)—5 kV																
17496.020600	3	6	8	0.39	10.0	1.27	32.3	1.37	34.8	301	448	927	1340	1380	2000	75
17496.020400	3	4	8	0.43	10.5	1.37	34.8	1.47	37.4	442	658	1138	1590	1694	2370	95
17496.010300*	3	3	6	0.46	11.7	1.42	36.1	1.52	38.6	583	868	1310	1780	1950	2640	115
17496.020200	3	2	6	0.49	12.5	1.49	37.9	1.59	40.4	703	1046	1476	1980	2197	2940	130
17496.020100*	3	1	6	0.52	13.3	1.59	40.4	1.69	43.0	970	1444	1752	2230	2607	3350	145
17496.025100*	3	1/0	6	0.56	14.2	1.67	42.4	1.77	45.0	1082	1610	2012	2540	2994	3780	170
17496.025200	3	2/0	6	0.60	15.2	1.76	44.7	1.86	47.3	1343	1999	2334	2880	3473	4290	195
17496.035300*	3	3/0	4	0.64	16.3	1.87	47.5	1.97	50.1	1720	2560	2835	3370	4219	5010	225
17496.025400	3	4/0	4	0.70	17.8	1.98	50.3	2.08	52.9	2315	3445	3328	4090	4952	6090	260
17496.056000*	3	250	4	0.75	19.1	2.15	54.6	2.25	57.2	2469	3674	3910	4780	5819	7110	290
17496.026200	3	350	3	0.85	21.5	2.36	60.0	2.49	63.3	3476	5173	5102	6100	7592	9070	350
17496.046500	3	500	3	0.97	24.6	2.62	66.6	2.75	69.9	4837	7198	6721	7880	10001	11720	430
17496.077000*	3	750	2	1.15	29.2	3.01	76.5	3.14	79.8	7224	10750	9469	11750	14090	17480	535
17496.017500*	3	1000	1	1.30	33.0	3.39	86.1	3.54	89.9	9715	14458	13790	15220	20520	22650	615

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

** Ampacity is based on CE Code Part 1, Table 2 (Three conductors in raceway [conduit]) and Rule 4-004.

HVTECK

TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored
5 kV, CSA HVTECK, 100%/133% Ins. Levels, 90 Mils, Single Conductor

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- A semi-conducting thermosetting layer, applied in a triple extrusive process, plus a concentric serving of solid copper wires acting as both a drain wire shield and as a grounding (bonding) conductor
- Color-coded: black insulation shield

Ground (Bonding) Conductor:

- The conductor is a concentric serving of solid copper wires applied over the thermosetting insulation shield

Inner Jacket:

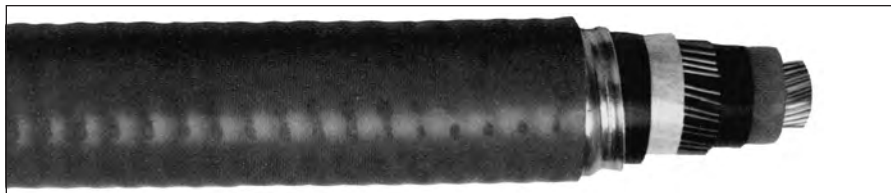
- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange



Print:

- GENERAL CABLE[®] 1/C SIZE (AWG OR KCMIL) COPPER CPT XLPE 5 kV (100% OR 133% INS LEVEL) ACID-FLAME-CHECK ✓✓[®] CSA HL HVTECK (-40°C) FT4 DIR BUR SUN RES MONTH/YEAR (LIGHTNING BOLT SYMBOL) SEQUENTIAL LENGTH MARK

Options:

- Other constructions available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174
- CSA Standard C68.3

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)								COPPER WEIGHT		NET WEIGHT W/AL ARMOR		AMPACITY** (40°C AMBIENT)		
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/1000 FT	kg/km		LBS/1000 FT	kg/km
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm					

**6 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—SHIELDED,
100%/133% INS. LEVELS, 90 MILS INS. (2.29 mm)—5 kV**

17496.700600*	1	6	8	0.39	10.0	0.47	11.9	0.68	17.3	0.90	22.9	0.99	25.2	144	214	510	770	112
17496.700400*	1	4	6	0.43	10.5	0.51	13.0	0.72	18.3	0.94	23.9	1.03	26.2	224	333	590	880	148
17496.700200*	1	2	6	0.49	12.5	0.57	14.5	0.78	19.8	1.03	26.2	1.12	28.5	302	449	750	1120	195
17496.700100*	1	1	4	0.52	13.3	0.60	15.3	0.81	20.6	1.06	27.0	1.15	29.2	406	604	870	1300	225
17496.705100*	1	1/0	4	0.56	14.2	0.63	16.0	0.88	22.4	1.13	28.7	1.22	31.0	475	707	1010	1500	260
17496.705200*	1	2/0	4	0.60	15.2	0.67	17.0	0.92	23.4	1.17	29.7	1.26	32.0	562	836	1120	1670	299
17496.705300*	1	3/0	3	0.64	16.3	0.71	18.1	0.97	24.7	1.22	31.0	1.31	33.3	709	1055	1300	1930	345
17496.705400*	1	4/0	3	0.70	17.8	0.76	19.3	1.02	25.9	1.27	32.3	1.36	34.6	843	1255	1470	2180	400
17496.706000*	1	250	2	0.75	19.1	0.82	20.8	1.10	28.0	1.38	35.1	1.48	37.6	1013	1508	1680	2500	444
17496.706200*	1	350	1	0.85	21.5	0.96	24.4	1.24	31.5	1.52	38.6	1.62	41.2	1389	2067	2120	3150	549
17496.706500*	1	500	1/0	0.97	24.6	1.04	26.4	1.34	34.0	1.62	41.2	1.72	43.7	1928	2869	2770	4130	688
17496.707000*	1	750	2/0	1.15	29.2	1.24	31.5	1.54	39.1	1.83	46.5	1.93	49.0	2820	4197	3780	5760	889
17496.707500*	1	1000	2/0	1.30	33.0	1.39	35.3	1.76	44.7	2.05	52.1	2.15	54.6	3607	5368	5010	7460	1061

Dimensions and weights are nominal; subject to industry tolerances.

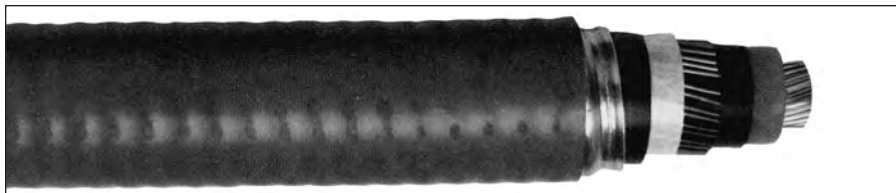
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on ICEA Publication P 46-426 for 8 kV cables. Open circuit (shield/armor) is assumed. Ampacities at other voltage levels do not vary significantly.

Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

HVTECK

TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored
5 kV, CSA HVTECK, 133% Ins. Level, 115 Mils, Single Conductor



Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provide long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

- Industry Compliances:**
- CSA Standard C22.2 No. 131 and No. 174
 - CSA Standard C68.3
- Flame Test Compliances:**
- CSA FT1 and FT4
 - IEEE 383 (70,000 BTU/hr)
 - UL 1581 (70,000 BTU/hr)
 - IEEE 1202 (70,000 BTU/hr) CSA FT4
 - ICEA T-30-520 (70,000 BTU/hr)
 - ICEA T-29-520 (210,000 BTU/hr)
- Other Compliances:**
- Hazardous Location Rating: HL
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP method
 - OSHA Acceptable

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- A semi-conducting thermosetting layer, applied in a triple extrusion process, plus a concentric serving of solid copper wires acting as both a drain wire shield and as a grounding (bonding) conductor
- Color-coded: black insulation shield

Ground (Bonding) Conductor:

- The conductor is a concentric serving of solid copper wires applied over the thermosetting insulation shield

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Print:

- GENERAL CABLE® 1/C SIZE (AWG OR KCMIL) COPPER CPT XLPE 5 kV (133% INS LEVEL) ACID-FLAME-CHECK ✓✓® CSA HL HVTECK (-40°C) FT4 DIR BUR SUN RES MONTH/YEAR (LIGHTNING BOLT SYMBOL) SEQUENTIAL LENGTH MARK

Options:

- Other constructions available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/AL ARMOR		AMPACITY** (40°C AMBIENT)
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm					

6 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—SHIELDED, 133% INS. LEVEL, 115 MILS INS. (2.92 mm) (TO AEIC)—5 kV

17496.710600*	1	6	8	0.44	11.2	0.51	13.0	0.73	18.6	0.95	24.2	1.04	26.4	145	216	550	820	112
17496.710400*	1	4	6	0.48	12.3	0.55	13.9	0.77	19.6	0.99	25.2	1.08	27.5	225	335	680	1010	148
17496.710200*	1	2	6	0.54	13.7	0.61	15.5	0.83	21.1	1.08	27.5	1.17	29.7	303	451	840	1250	195
17496.710100*	1	1	4	0.57	14.5	0.64	16.3	0.91	23.0	1.16	29.5	1.25	31.8	407	606	960	1430	225
17496.715100*	1	1/0	4	0.61	15.4	0.68	17.3	0.94	23.9	1.19	30.3	1.28	32.5	407	606	1060	1570	260
17496.715200*	1	2/0	4	0.65	16.4	0.72	18.3	0.98	25.0	1.23	31.3	1.32	33.6	476	708	1170	1740	299
17496.715300*	1	3/0	3	0.70	17.7	0.76	19.3	1.03	26.3	1.31	33.3	1.40	35.6	563	838	1350	2000	345
17496.715400*	1	4/0	3	0.75	18.9	0.81	20.6	1.08	27.5	1.36	34.6	1.45	36.9	710	1057	1520	2260	400
17496.716000*	1	250	2	0.80	20.3	0.87	22.1	1.16	29.6	1.44	36.6	1.53	38.9	849	1263	1730	2580	444
17496.716200*	1	350	1	0.94	23.9	1.01	25.7	1.29	32.8	1.57	39.9	1.67	42.4	1169	1740	2170	3230	549
17496.716500*	1	500	1/0	1.02	26.0	1.11	28.2	1.41	35.8	1.69	43.0	1.79	45.6	1390	2069	2860	4260	688
17496.717000*	1	750	2/0	1.20	30.6	1.29	32.8	1.60	40.7	1.89	48.0	1.99	50.6	2821	4198	3940	5860	889
17496.717500*	1	1000	2/0	1.35	34.3	1.44	36.6	1.81	46.0	2.10	53.4	2.20	55.9	3608	5369	5090	7570	1061

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on ICEA Publication P 46-426 for 8 kV cables. Open circuit (shield/armour) is assumed. Ampacities at other voltage levels do not vary significantly. Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored
5 kV, CSA HVTECK, 100%/133% Ins. Levels, 90 Mils, Three Conductor

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- A semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
- Color-coded: black, red or blue colored tape placed longitudinally under the copper tape shield

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange



Print:

- GENERAL CABLE[®] 3/C SIZE (AWG OR KCMIL) COPPER CPT XLPE 5 kV (100% OR 133% INS LEVEL) ACID-FLAME-CHECK ✓[®] CSA HL HVTECK FT4 (-40°C) DIR BUR SUN RES MONTH/YEAR (LIGHTNING BOLT SYMBOL) SEQUENTIAL LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174
- CSA Standard C68.3

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (40°C AMBIENT)
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	
6 AWG THRU 1000 kcmil—THREE CONDUCTOR—SHIELDED, 100%/133% INS. LEVELS, 90 MILS INS. (2.29 mm)—5 kV																				
17496.740600*	3	6	8	0.39	10.0	0.47	11.9	1.17	29.7	1.45	36.9	1.54	39.2	349	519	1120	1590	1670	2360	93
17496.740400*	3	4	8	0.43	10.5	0.51	13.0	1.26	32.0	1.54	39.1	1.63	41.4	503	749	1350	1850	1670	2760	122
17496.740200*	3	2	6	0.49	12.5	0.57	14.5	1.39	35.3	1.67	42.4	1.77	45.0	771	1147	1740	2290	2590	3410	159
17496.740100*	3	1	6	0.52	13.3	0.60	15.3	1.45	36.9	1.73	43.9	1.83	46.5	939	1397	1960	2540	2920	3780	184
17496.745100*	3	1/0	6	0.56	14.2	0.63	16.0	1.53	38.9	1.81	46.0	1.91	48.5	1148	1708	2290	3010	3410	4490	211
17496.745200*	3	2/0	6	0.60	15.2	0.67	17.0	1.62	41.2	1.91	48.5	2.01	51.1	1414	2104	2620	3380	3900	5030	243
17496.745300*	3	3/0	4	0.64	16.3	0.71	18.1	1.78	45.2	2.07	52.6	2.17	55.1	1798	2668	3210	4040	4780	6020	279
17496.745400*	3	4/0	4	0.70	17.8	0.76	19.3	1.90	48.3	2.19	55.6	2.29	58.2	2212	3292	3720	4600	5530	6840	321
17496.746000*	3	250	4	0.75	19.1	0.82	20.8	2.01	51.1	2.30	58.4	2.43	61.8	2583	3844	4300	5240	6400	7800	355
17496.746200*	3	350	3	0.85	21.5	0.96	24.4	2.32	58.9	2.61	66.3	2.74	69.6	3569	5311	5480	6520	8160	9700	435
17496.746500*	3	500	3	0.97	24.6	1.04	26.4	2.48	63.0	2.77	70.4	2.90	73.7	4998	7438	7130	8280	10610	12320	536
17496.747000*	3	750	2	1.15	29.2	1.24	31.5	2.98	75.7	3.27	83.1	3.42	86.9	7440	11072	10330	11700	15370	17410	668
17496.747500*	3	1000	1	1.30	33.0	1.39	35.3	3.31	84.1	3.60	91.5	3.75	95.3	9860	14674	13080	14600	19460	21730	768

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on ICEA Publication P 46-426 for 8 kV cables. Ampacities at other voltage levels do not vary significantly.

Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored
5 kV, CSA HVTECK, 133% Ins. Level, 115 Mils, Three Conductor



Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

- Industry Compliances:**
- CSA Standard C22.2 No. 131 and No. 174
 - CSA Standard C68.3
- Flame Test Compliances:**
- CSA FT1 and FT4
 - IEEE 383 (70,000 BTU/hr)
 - UL 1581 (70,000 BTU/hr)
 - IEEE 1202 (70,000 BTU/hr) CSA FT4
 - ICEA T-30-520 (70,000 BTU/hr)
 - ICEA T-29-520 (210,000 BTU/hr)
- Other Compliances:**
- Hazardous Location Rating: HL
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP method
 - OSHA Acceptable

Product Construction:

Conductor:

- 6 AWG thru 1000 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- A semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
- Color-coded: black, red or blue colored tape placed longitudinally under the copper tape shield

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Print:

- GENERAL CABLE[®] 3/C SIZE (AWG OR KCMIL) COPPER CPT XLPE 5 kV (133% INS LEVEL) ACID-FLAME-CHECK ✓✓[®] CSA HL HVTECK FT4 (-40°C) DIR BUR SUN RES MONTH/YEAR (LIGHTNING BOLT SYMBOL) SEQUENTIAL LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (40°C AMBIENT)
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	

6 AWG THRU 1000 kcmil—THREE CONDUCTOR—SHIELDED, 133% INS. LEVEL, 115 MILS INS. (2.92 mm) (TO AEIC)—5 kV

17496.750600*	3	6	8	0.44	11.2	0.51	13.0	1.27	32.3	1.55	39.4	1.65	41.9	352	524	1270	1780	1890	2650	93
17496.750400*	3	4	8	0.48	12.3	0.55	13.9	1.37	34.8	1.65	41.9	1.75	44.5	505	752	1500	2040	2230	3040	122
17496.750200*	3	2	6	0.54	13.7	0.61	15.5	1.50	38.2	1.78	45.2	1.88	47.8	774	1152	1930	2630	2870	3910	159
17496.750100*	3	1	6	0.57	14.5	0.64	16.3	1.57	39.9	1.86	47.3	1.96	49.8	943	1403	2150	2880	3200	2490	184
17496.755100*	3	1/0	6	0.61	15.4	0.68	17.3	1.65	41.9	1.94	49.3	2.04	51.8	1151	1713	2430	3200	3620	4760	211
17496.755200*	3	2/0	6	0.65	16.4	0.72	18.3	1.80	45.6	2.09	53.1	2.19	55.7	1417	2109	2890	3720	4300	5540	243
17496.755300*	3	3/0	4	0.70	17.7	0.76	19.3	1.90	48.3	2.19	55.7	2.29	58.2	1796	2673	3360	4240	5000	6310	279
17496.755400*	3	4/0	4	0.75	18.9	0.81	20.6	2.01	51.0	2.30	58.5	2.43	61.8	2215	3296	3940	4870	5860	7240	321
17496.756000*	3	250	4	0.80	20.3	0.87	22.1	2.13	54.1	2.42	61.5	2.55	64.8	2583	3844	4470	5450	6650	8120	355
17496.756200*	3	350	3	0.94	23.9	1.01	25.7	2.43	61.8	2.72	69.1	2.85	72.4	3572	5316	5650	6730	8400	10020	435
17496.756500*	3	500	3	1.02	26.0	1.11	28.2	2.64	67.1	2.93	74.5	3.06	77.8	5004	7447	7440	8660	11070	12880	536
17496.757000*	3	750	2	1.20	30.6	1.29	32.8	3.10	78.8	3.39	86.1	3.54	89.9	7431	11059	10560	11980	15710	17830	668
17496.757500*	3	1000	1	1.35	34.3	1.44	36.6	3.42	86.9	3.71	94.3	3.86	98.1	9863	14678	13300	14870	19790	22130	768

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on ICEA Publication P 46-426 for 8 kV cables. Ampacities at other voltage levels do not vary significantly. Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

HVTECK

TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored
15 kV, CSA HVTECK, 100% Ins. Level, 175 Mils, Single Conductor

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- A semi-conducting thermosetting layer, applied in a triple extrusion process, plus a concentric serving of solid copper wires acting as both a drain wire shield and as a grounding (bonding) conductor
- Color-coded: black insulation shield

Ground (Bonding) Conductor:

- The conductor is a concentric serving of solid copper wires applied over the thermosetting insulation shield

Inner Jacket:

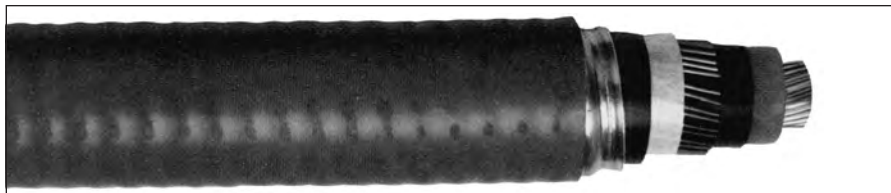
- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red



Print:

- GENERAL CABLE[®] 1/C SIZE (AWG OR KCMIL)
COPPER CPT XLPE 15 kV (100% INS LEVEL)
ACID-FLAME-CHECK ✓✓[®] CSA HL HVTECK
FT4 (-40°C) DIR BUR SUN RES MONTH/YEAR
(LIGHTNING BOLT SYMBOL) SEQUENTIAL
LENGTH MARK

Options:

- Other constructions available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174
- CSA Standard C68.3

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/AL ARMOR		AMPACITY** (40°C AMBIENT)	
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km		
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm						
2 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—100% INS. LEVELS, 175 MILS INS. (4.45 mm)—15 kV																			
17496.810200*	1	2	6	0.66	16.7	0.73	18.6	0.99	25.3	1.24	31.5	1.33	33.8	259	385	950	1420	195	
17496.810100*	1	1	4	0.69	17.5	0.76	19.3	1.03	26.1	1.28	32.5	1.37	34.8	391	582	1080	1600	225	
17496.815100*	1	1/0	4	0.73	18.5	0.80	20.3	1.06	27.0	1.31	33.3	1.40	35.6	460	685	1170	1750	259	
17496.815200*	1	2/0	4	0.77	19.5	0.84	21.3	1.10	27.9	1.35	34.3	1.44	36.6	545	811	1290	1920	298	
17496.815300*	1	3/0	3	0.82	20.8	0.88	22.4	1.15	29.2	1.40	35.6	1.49	37.9	688	1024	1470	2190	343	
17496.815400*	1	4/0	3	0.87	22.0	0.94	23.9	1.21	30.6	1.46	37.1	1.55	39.4	824	1226	1640	2450	397	
17496.816000*	1	250	2	0.93	23.5	0.99	25.2	1.28	32.5	1.53	38.9	1.63	41.4	944	1405	1900	2830	440	
17496.816200*	1	350	1	1.07	27.2	1.15	29.2	1.43	36.3	1.71	43.5	1.81	46.0	1352	2012	2370	3530	543	
17496.816500*	1	500	1/0	1.14	29.0	1.23	31.2	1.54	39.1	1.83	46.5	1.93	49.1	1887	2808	3080	4590	678	
17496.817000*	1	750	2/0	1.32	33.6	1.41	35.9	1.78	45.2	2.07	52.6	2.17	55.2	2754	4099	4240	6320	872	
17496.817500*	1	1000	2/0	1.48	37.6	1.57	39.9	1.93	49.0	2.22	56.4	2.32	59.0	3532	5256	5280	7860	1040	

Dimensions and weights are nominal; subject to industry tolerances.

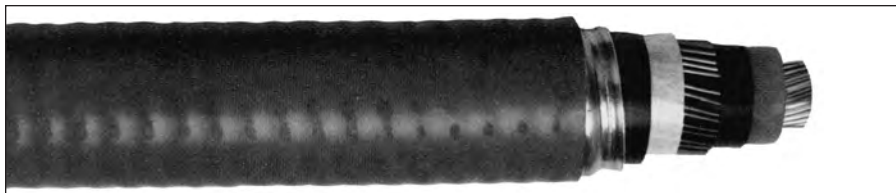
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on ICEA Publication P 46-426 for 15 kV cables. Open circuit (shield/armor) is assumed. Ampacities at other voltage levels do not vary significantly.

Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

HVTECK

TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored
15 kV, CSA HVTECK, 133% Ins. Level, 220 Mils, Single Conductor



Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

- Industry Compliances:**
- CSA Standard C22.2 No. 131 and No. 174
 - CSA Standard C68.3
- Flame Test Compliances:**
- CSA FT1 and FT4
 - IEEE 383 (70,000 BTU/hr)
 - UL 1581 (70,000 BTU/hr)
 - IEEE 1202 (70,000 BTU/hr) CSA FT4
 - ICEA T-30-520 (70,000 BTU/hr)
 - ICEA T-29-520 (210,000 BTU/hr)
- Other Compliances:**
- Hazardous Location Rating: HL
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP method
 - OSHA Acceptable

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- A semi-conducting thermosetting layer, applied in a triple extrusion process, plus a concentric serving of solid copper wires acting as both a drain wire shield and as a grounding (bonding) conductor
- Color-coded: black insulation shield

Ground (Bonding) Conductor:

- The conductor is a concentric serving of solid copper wires applied over the thermosetting insulation shield

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Print:

- GENERAL CABLE® 1/C SIZE (AWG OR KCMIL) COPPER CPT XLPE 15 kV (133% INS LEVEL) ACID-FLAME-CHECK ✓✓® CSA HL HVTECK FT4 (-40°C) DIR BUR SUN RES MONTH/YEAR (LIGHTNING BOLT SYMBOL) SEQUENTIAL LENGTH MARK

Options:

- Other constructions available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/AL ARMOR		AMPACITY** (40°C AMBIENT)	
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm						
2 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—133% INS. LEVELS, 220 MILS INS. (5.59 mm)—15 kV																			
17496.216500*	1	2	6	0.76	19.3	0.83	21.1	1.09	27.7	1.34	34.1	1.43	36.4	286	426	1028	1530	195	
17496.820100*	1	1	4	0.79	20.1	0.86	21.9	1.12	28.4	1.37	34.8	1.46	37.1	391	582	1170	1740	225	
17496.825100*	1	1/0	4	0.83	21.1	0.89	22.6	1.16	29.4	1.41	35.8	1.50	38.1	459	683	1270	1890	259	
17496.825200*	1	2/0	4	0.86	21.8	0.93	23.6	1.20	30.4	1.45	36.9	1.54	39.2	546	813	1390	2060	298	
17496.825300*	1	3/0	3	0.91	23.0	0.98	24.9	1.25	31.7	1.50	38.1	1.59	40.4	693	1031	1570	2340	343	
17496.825400*	1	4/0	3	0.96	24.3	1.03	26.2	1.30	33.0	1.58	40.2	1.68	42.7	830	1235	1780	2650	397	
17496.826000*	1	250	2	1.02	25.8	1.08	27.5	1.38	35.0	1.66	42.2	1.76	44.7	989	1472	2010	2990	440	
17496.826200*	1	350	1	1.12	28.3	1.20	30.5	1.50	38.0	1.78	45.2	1.88	47.8	1228	1827	2490	3700	543	
17496.826500*	1	500	1/0	1.24	31.5	1.32	33.6	1.65	41.8	1.94	49.3	2.04	51.9	1896	2821	3220	4790	678	
17496.827000*	1	750	2/0	1.42	36.0	1.51	38.3	1.89	48.0	2.18	55.4	2.28	57.9	2766	4116	4390	6530	872	
17496.827500*	1	1000	2/0	1.57	39.9	1.68	42.6	2.05	52.1	2.34	59.5	2.48	63.0	3552	5286	5550	8260	1040	

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on ICEA Publication P 46-426 for 15 kV cables. Open circuit (shield/armor) is assumed. Ampacities at other voltage levels do not vary significantly.

Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).



Phone: 888-593-3355
www.generalcable.com

HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored
15 kV, CSA HVTECK, 100% Ins. Level, 175 Mils, Three Conductor

Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- This consists of a semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
- Color-coded: black, red or blue colored tape placed longitudinally under the copper tape shield

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

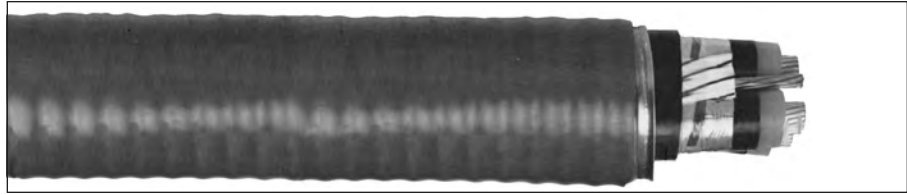
- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red



Print:

- GENERAL CABLE[®] 3/C SIZE (AWG OR KCMIL)
- COPPER CPT XLPE 15 kV (100% INS LEVEL)
- ACID-FLAME-CHECK ✓✓[®] CSA HL HVTECK
- FT4 (-40°C) DIR BUR SUN RES MONTH/YEAR
- (LIGHTNING BOLT SYMBOL) SEQUENTIAL LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174
- CSA Standard C68.3

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (40°C AMBIENT)
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	

2 AWG THRU 1000 kcmil—THREE CONDUCTOR—100% INS. LEVELS, 175 MILS INS. (4.45 mm)—15 kV

17496.030200*	3	2	6	0.66	16.7	0.73	18.6	1.82	46.3	2.11	53.6	2.21	56.2	787	1171	2370	3220	3530	4790	164
17496.830100*	3	1	6	0.69	17.5	0.76	19.3	1.89	48.0	2.18	55.4	2.27	57.7	955	1421	2620	3490	3890	5190	187
17496.835100*	3	1/0	6	0.73	18.5	0.79	20.1	1.97	50.0	2.26	57.4	2.35	59.7	1163	1731	2900	3810	4320	5670	215
17496.835200*	3	2/0	6	0.77	19.5	0.84	21.3	2.06	52.3	2.34	59.5	2.46	62.5	1429	2127	3330	4280	4960	6370	246
17496.835300*	3	3/0	4	0.82	20.8	0.88	22.4	2.16	54.9	2.44	62.0	2.57	65.3	1812	2697	3840	4840	5720	7200	283
17496.835400*	3	4/0	4	0.87	22.0	0.93	23.7	2.27	57.7	2.56	65.1	2.68	68.1	2228	3316	4360	5410	6490	8050	325
17496.836000*	3	250	4	0.93	23.5	0.99	25.2	2.38	60.5	2.68	68.1	2.79	70.9	2598	3866	4880	5990	7260	8910	359
17496.836200*	3	350	3	1.06	26.9	1.15	29.2	2.73	69.4	3.02	76.7	3.14	79.8	3587	5338	6210	7430	9240	11060	438
17496.536500*	3	500	3	1.14	29.0	1.23	31.2	2.97	75.5	3.26	82.8	3.40	86.4	5013	7460	8549	9550	12721	14200	536
17496.837000*	3	750	2	1.32	33.6	1.41	35.9	3.35	85.1	3.64	92.5	3.77	95.8	7446	11081	11100	12640	16520	18810	669
17496.837500*	3	1000	1	1.47	37.4	1.56	39.6	3.72	94.5	3.97	100.8	4.17	105.9	9376	13953	13890	15580	20670	23180	770

Dimensions and weights are nominal; subject to industry tolerances.

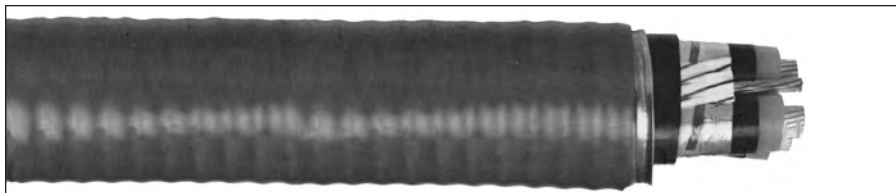
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on ICEA Publication P 46-426 for 15 kV cables. Ampacities at other voltage levels do not vary significantly.

Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored
15 kV, CSA HVTECK, 133% Ins. Level, 220 Mils, Three Conductor



Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

- Industry Compliances:**
- CSA Standard C22.2 No. 131 and No. 174
 - CSA Standard C68.3

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

Product Construction:

Conductor:

- 2 AWG thru 750 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- This consists of a semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
- Color-coded: black, red or blue colored tape placed longitudinally under the copper tape shield

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Print:

- GENERAL CABLE® 3/C SIZE (AWG OR KCMIL) COPPER CPT XLPE 15 kV (133% INS LEVEL) ACID-FLAME-CHECK ✓✓® CSA HL HVTECK FT4 (-40°C) DIR BUR SUN RES MONTH/YEAR (LIGHTNING BOLT SYMBOL) SEQUENTIAL LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other options available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (40°C AMBIENT)
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	

2 AWG THRU 750 kcmil—THREE CONDUCTOR—133% INS. LEVEL, 220 MILS INS. (5.59 mm)—15 kV

17496.230200*	3	2	6	0.76	19.3	0.83	21.1	2.02	51.3	2.31	58.7	2.43	61.7	793	1180	2665	3518	3966	5235	164
17496.010100*	3	1	6	0.79	20.1	0.86	21.9	2.10	53.3	2.37	60.2	2.49	63.3	964	1435	3089	3930	4597	5850	187
17451.316781*	3	1/0	6	0.83	21.1	0.89	22.6	2.17	55.1	2.46	62.5	2.58	65.6	1175	1749	3300	4300	4900	6390	215
17496.015200*	3	2/0	6	0.86	21.8	0.93	23.6	2.26	57.3	2.55	64.8	2.67	67.8	1438	2140	3650	4690	5430	6980	246
17496.025300*	3	3/0	4	0.91	23.0	0.98	24.9	2.36	60.0	2.65	67.3	2.77	70.4	1821	2710	4140	5230	6160	7780	283
17496.035400*	3	4/0	4	0.96	24.3	1.03	26.2	2.47	62.8	2.76	70.1	2.88	73.2	2248	3345	4680	5810	6960	8650	325
17496.026000*	3	250	4	1.02	25.8	1.08	27.5	2.59	65.8	2.88	73.2	3.00	76.2	2607	3880	5275	6440	7850	9580	359
17496.046200	3	350	3	1.12	28.3	1.20	30.5	2.90	73.7	3.19	81.0	3.33	84.6	3597	5353	6842	8170	10181	12160	438
17496.056500	3	500	3	1.24	31.5	1.32	33.6	3.16	80.3	3.45	87.6	3.59	91.2	5022	7474	8513	10050	12668	14950	536
17496.037000	3	750	2	1.42	36.0	1.51	38.3	3.57	90.7	3.85	97.8	4.00	101.6	7452	11090	11507	13160	17122	19580	669

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on ICEA Publication P 46-426 for 15 kV cables. Ampacities at other voltage levels do not vary significantly.

Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored
25 kV, CSA HVTECK, 100% Ins. Level, 260 Mils, Three Conductor

Product Construction:

Conductor:

- 1 AWG thru 500 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- This consists of a semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
- Color-coded: black, red or blue colored tape placed longitudinally under the copper tape shield

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black or as requested



Print:

- GENERAL CABLE[®] 3/C SIZE (AWG OR KCMIL)
COPPER CPT XLPE 25 kV (100% INS LEVEL)
ACID-FLAME-CHECK ✓✓[®] CSA HL HVTECK
FT4 (-40°C) DIR BUR SUN RES MONTH/YEAR
(LIGHTNING BOLT SYMBOL) SEQUENTIAL
LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174
- CSA Standard C68.3

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (40°C AMBIENT)
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	
1 AWG THRU 500 kcmil—THREE CONDUCTOR—100% INS. LEVEL, 260 MILS INS. (6.60 mm)—25 kV																				
17496.850100*	3	1	6	0.87	22.1	0.94	23.9	2.26	57.5	2.55	64.8	2.67	67.8	973	1448	3250	4300	4840	6390	187
17496.855100*	3	1/0	6	0.91	23.1	0.97	24.6	2.34	59.5	2.63	66.8	2.74	69.6	1181	1758	3550	4630	5290	6890	215
17496.855200*	3	2/0	6	0.95	24.1	1.01	25.7	2.43	61.7	2.72	69.1	2.84	72.2	1446	2152	3930	5040	5850	7500	246
17496.855300*	3	3/0	4	0.99	25.1	1.06	26.9	2.54	64.5	2.82	71.6	2.94	74.7	1827	2719	4440	5600	6610	8340	283
17496.855400*	3	4/0	4	1.04	26.4	1.13	28.7	2.70	68.5	2.98	75.7	3.10	78.8	2249	3347	5090	6320	7580	9410	325
17496.856000*	3	250	4	1.10	27.9	1.18	30.1	2.87	72.9	3.16	80.3	3.29	83.6	2619	3898	5900	7220	8790	10750	359
17496.856200*	3	350	3	1.24	31.5	1.33	33.8	3.17	80.5	3.46	87.9	3.60	91.5	3606	5366	7180	8590	10680	12780	438
17496.856500*	3	500	3	1.32	33.5	1.41	35.8	3.34	84.9	3.63	92.2	3.76	95.5	5032	7489	8950	10480	13320	15590	536

Dimensions and weights are nominal; subject to industry tolerances.

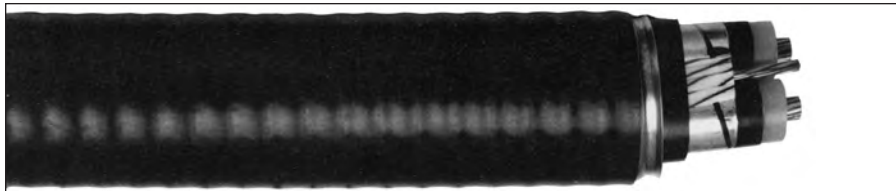
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on ICEA Publication P 46-426 for 15 kV cables. Ampacities at other voltage levels do not vary significantly.

Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored
25 kV, CSA HVTECK, 133% Ins. Level, 320 Mils, Three Conductor



Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

- Industry Compliances:**
- CSA Standard C22.2 No. 131 and No. 174
 - CSA Standard C68.3
- Flame Test Compliances:**
- CSA FT1 and FT4
 - IEEE 383 (70,000 BTU/hr)
 - UL 1581 (70,000 BTU/hr)
 - IEEE 1202 (70,000 BTU/hr) CSA FT4
 - ICEA T-30-520 (70,000 BTU/hr)
 - ICEA T-29-520 (210,000 BTU/hr)
- Other Compliances:**
- Hazardous Location Rating: HL
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP method
 - OSHA Acceptable

Product Construction:

Conductor:

- 1 AWG thru 350 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- This consists of a semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
- Color-coded: black, red or blue colored tape placed longitudinally under the copper tape shield

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black or as requested

Print:

- GENERAL CABLE[®] 3/C SIZE (AWG OR KCMIL) COPPER CPT XLPE 25 kV (133% INS LEVEL) ACID-FLAME-CHECK ✓✓[®] CSA HL HVTECK FT4 (-40°C) DIR BUR SUN RES MONTH/YEAR (LIGHTNING BOLT SYMBOL) SEQUENTIAL LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (40°C AMBIENT)
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	
1 AWG THRU 350 kcmil—THREE CONDUCTOR—133% INS. LEVEL, 320 MILS INS. (8.13 mm)—25 kV																				
17496.860100*	3	1	6	0.99	25.2	1.06	26.9	2.53	64.2	2.82	71.6	2.94	74.7	985	1466	3690	4850	5490	7210	187
17496.865100*	3	1/0	6	1.03	26.2	1.12	28.5	2.65	67.3	2.94	74.7	3.06	77.7	1193	1775	4110	5330	6120	7930	215
17496.865200*	3	2/0	6	1.07	27.2	1.16	29.5	2.74	69.6	3.03	77.0	3.15	80.0	1460	2173	4490	5740	6680	8540	246
17496.865300*	3	3/0	4	1.12	28.5	1.21	30.8	2.91	73.9	3.19	81.1	3.33	84.6	1842	2741	5270	6600	7840	9820	283
17496.865400*	3	4/0	4	1.17	29.8	1.26	32.0	3.02	76.7	3.31	84.1	3.44	87.4	2261	3365	5840	7220	8700	10740	325
17496.866000*	3	250	4	1.22	30.9	1.31	33.2	3.15	80.0	3.43	87.1	3.58	90.9	2629	3912	6440	7880	9590	11720	359
17496.866200*	3	350	3	1.37	34.8	1.45	36.9	3.44	87.4	3.73	94.8	3.88	98.6	3615	5380	7720	9250	11490	13770	438

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

** Ampacity is based on ICEA Publication P 46-426 for 15 kV cables. Ampacities at other voltage levels do not vary significantly.

Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored
28 kV, CSA HVTECK, 133% Ins. Level, 345 Mils, Three Conductor

Product Construction:

Conductor:

- 1 AWG thru 350 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- This consists of a semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
- Color-coded: black, red or blue colored tape placed longitudinally under the copper tape shield

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

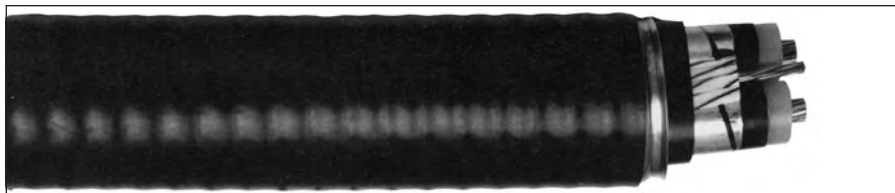
- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black or as requested



Print:

- GENERAL CABLE[®] 3/C SIZE (AWG OR KCMIL)
- COPPER CPT XLPE 28 kV (133% INS LEVEL)
- ACID-FLAME-CHECK ✓✓[®] CSA HL HVTECK
- FT4 (-40°C) DIR BUR SUN RES MONTH/YEAR
- (LIGHTNING BOLT SYMBOL) SEQUENTIAL LENGTH MARK

Options:

- Galvanized Steel Interlocked Armor (GSIA)
- Other constructions available upon request

Applications:

- For wiring in all hazardous locations when used with certified HL cable glands
- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174
- CSA Standard C68.3

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (40°C AMBIENT)
				INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	

1 AWG THRU 350 kcmil—THREE CONDUCTOR—133% INS. LEVEL, 345 MILS INS. (8.76 mm)—28 kV

17496.890100*	3	1	6	1.04	26.4	1.13	28.7	2.68	68.2	2.97	75.5	3.10	78.8	988	1470	3980	5210	5930	7750	187
17496.895100*	3	1/0	6	1.08	27.5	1.17	29.7	2.76	70.2	3.05	77.5	3.18	80.8	1200	1786	4360	5620	6490	8370	215
17496.895200*	3	2/0	6	1.12	28.5	1.21	30.8	2.92	74.2	3.21	81.6	3.36	85.4	1466	2182	4950	6280	7370	9350	246
17496.895300*	3	3/0	4	1.17	29.7	1.26	32.0	3.02	76.7	3.31	84.1	3.46	87.9	1848	2750	5490	6860	8160	10210	283
17496.895400*	3	4/0	4	1.22	31.0	1.31	33.3	3.14	79.6	3.43	87.2	3.58	90.9	2264	3369	6090	7510	9060	11180	325
17496.896000*	3	250	4	1.27	32.3	1.37	34.8	3.26	82.9	3.55	90.2	3.70	94.0	2635	3921	6660	8140	9910	12120	359
17496.896200*	3	350	3	1.42	36.1	1.51	38.4	3.56	90.5	3.85	97.8	4.00	101.6	3621	5389	7960	9540	11840	14190	438

Dimensions and weights are nominal; subject to industry tolerances.

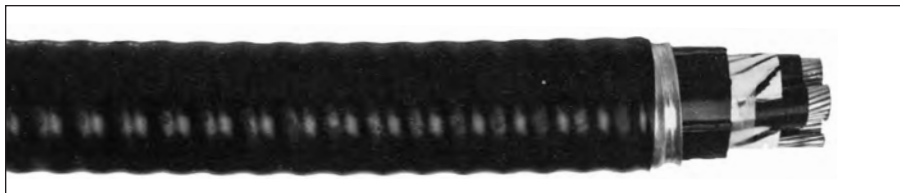
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

** Ampacity is based on ICEA Publication P 46-426 for 15 kV cables. Ampacities at other voltage levels do not vary significantly.

Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

VERTITECK® TECK90

XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored
1 kV, CSA TECK90, Three Conductor



Features (cont'd.):

- Lighter than mine shaft cable with conventional steel wire armor (SWA)
- More flexible than SWA cables, resulting in easier handling during installation
- Terminations and connections to electrical cabinets are similar to standard TECK90 cables
- Meets cold bend and impact tests at -40°C

Product Construction:

Conductor:

- 1/0 AWG thru 1000 kcmil bare copper compact Class B strand

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: printed numbers

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Galvanized Steel Interlocked Armor (GSIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓ flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE® ACID-FLAME-CHECK ✓✓ AG14 FT1 FT4 HL VERTITECK® GSIA XLPE (-40°C) 3/C SIZE (AWG OR KCMIL) 1000 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK

Options:

- Three ground (bonding) conductors
- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp, or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands
- Cost-effective alternative to installation in conduit
- Typical vertical installations include mine shafts, tall commercial buildings, inclined tunnels and vertical cable trays
(Note that the overall jacket is required for all damp and wet locations and for all corrosive environments: CE Code Part 1, Rules 12-708 and 22-200)

Features:

- Rated at 90°C wet or dry
- The jacket under the armor (inner jacket) is designed with longitudinal raised ribs. The armor is then applied and bites into these ribs to provide a solidly locked construction. This feature enables the cable to be self-supporting (core will not slip) during vertical installation when cable weight is supported by the copper conductors

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	MIN. AVG. INSULATION THICKNESS		NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/STEEL ARMOR		AMPACITY** (30°C AMBIENT)	MAXIMUM SELF-SUPPORTING LENGTH*** (m)
						INSULATION		ARMOR		CABLE							
						INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km		
1/0 AWG THRU 1000 kcmil – THREE CONDUCTOR – 1000 V																	
11289.415100*	3	1/0	6	0.080	2.03	0.36	9.0	1.66	42.2	1.78	45.2	1082	1610	2520	3760	155	212
11289.415200*	3	2/0	6	0.080	2.03	0.54	13.8	1.75	44.5	1.87	47.5	1342	1997	2880	4280	185	232
11289.415300*	3	3/0	4	0.080	2.03	0.59	15.0	1.85	47.0	1.97	50.1	1719	2558	3360	5000	210	254
11289.415400*	3	4/0	4	0.080	2.03	0.64	16.3	1.96	49.8	2.08	52.9	2133	3174	4080	6080	235	260
11289.416000*	3	250	4	0.090	2.29	0.71	18.0	2.15	54.6	2.27	57.7	2498	3718	4790	7130	265	270
11289.416200*	3	350	3	0.090	2.29	0.81	20.4	2.36	60.0	2.50	63.5	2475	5171	6100	9080	325	288
11289.416500*	3	500	2	0.090	2.29	0.93	23.5	2.62	66.6	2.76	70.1	4891	7279	7900	11760	395	***
11289.417000*	3	750	2	0.090	2.29	1.10	27.9	2.99	76.0	3.13	79.5	7306	10873	10830	16110	500	***
11289.417500*	3	1000	1	0.090	2.29	1.25	31.8	3.38	85.6	3.54	89.9	9714	14456	13970	20780	585	***

Dimensions and weight are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on CE Code Part 1, Table 2 (three conductors in raceway [conduit]) and Rule 4-004.

***Maximum self-supporting lengths are based on safety factor of 5 and a tensile strength of 37,000 psi for soft drawn copper.

Higher safety factors or lower tensile strength values may be required to address more stringent safety regulations.

VERTITECK® TECK90

XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored
5 kV, CSA TECK90, 90 Mils, Three Conductor

Product Construction:

Conductor:

- 1/0 AWG thru 500 kcmil bare copper compact strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: printed numbers

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Galvanized Steel Interlocked Armor (GSIA)

Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Print:

- GENERAL CABLE® ACID-FLAME-CHECK ✓✓[®] AG14 FT1 FT4 HL VERTITECK® GSIA XLPE (-40°C) 3/C SIZE (AWG OR KCMIL) 5000 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK

Options:

- Three ground (bonding) conductors
- Other constructions available upon request

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp, or wet locations



Applications (cont'd.):

- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands
- Cost-effective alternative to installation in conduit
- Typical vertical installations include mine shafts, tall commercial buildings, inclined tunnels and vertical cable trays
(Note that the overall jacket is required for all damp and wet locations and for all corrosive environments: CE Code Part 1, Rules 12-708 and 22-200)

Features:

- Rated at 90°C wet or dry
- The jacket under the armor (inner jacket) is designed with longitudinal raised ribs. The armor is then applied and bites into these ribs to provide a solidly locked construction. This feature enables the cable to be self-supporting (core will not slip) during vertical installation when cable weight is supported by the copper conductors
- Lighter than mine shaft cable with conventional steel wire armor (SWA)
- More flexible than SWA cables, resulting in easier handling during installation
- Terminations and connections to electrical cabinets are similar to standard TECK90 cables
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/STEEL ARMOR		AMPACITY** (30°C AMBIENT)	MAXIMUM SELF-SUPPORTING LENGTH***(m)
				INSULATION		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm						
1/0 AWG THRU 500 kcmil – THREE CONDUCTOR – UNSHIELDED, 90 MILS INS. (2.29 mm) – 5 kV															
17497.055100*	3	1/0	6	0.56	14.2	1.77	45.0	1.87	47.5	1082	1610	2700	4020	155	200
17497.055200*	3	2/0	6	0.60	15.2	1.86	47.3	1.96	49.8	1343	1999	3060	4550	185	221
17497.055300*	3	3/0	4	0.65	16.4	1.97	50.0	2.07	52.6	1720	2560	3550	5280	210	240
17497.055400*	3	4/0	4	0.70	17.8	2.08	52.9	2.18	55.4	2315	3445	4290	6380	235	249
17497.056000*	3	250	4	0.75	19.1	2.25	57.2	2.35	59.7	2469	3674	4990	7430	265	251
17497.056200*	3	350	3	0.85	21.8	2.46	62.5	2.59	65.8	3476	5173	6340	9430	325	278
17497.056500*	3	500	2	0.98	24.9	2.72	69.1	2.85	72.4	4837	7198	8130	12100	395	230

Dimensions and weight are nominal; subject to industry tolerances.

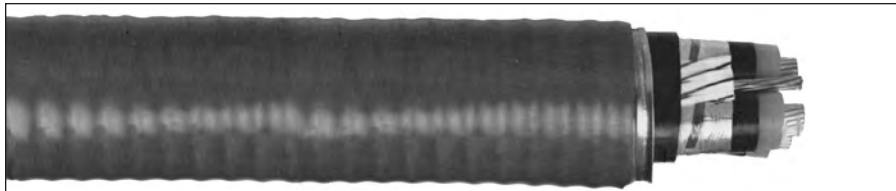
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on CE Code Part 1, Table 2 (three conductors in raceway [conduit]) and Rule 4-004.

***Maximum self-supporting lengths are based on safety factor of 5 and a tensile strength of 37,000 psi for soft drawn copper. Higher safety factors or lower tensile strength values may be required to address more stringent safety regulations.

VERTITECK® HVTECK

TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored
15 kV, CSA HVTECK, 133% Ins. Level, 220 MILS, Three Conductor



Product Construction:

Conductor:

- 2 AWG thru 750 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- This consists of a semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
- Color code: black, red, or blue colored tape placed longitudinally under the copper tape shield

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Galvanized Steel Interlocked Armor (GSIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Print:

- GENERAL CABLE® ACID-FLAME-CHECK ✓✓® AG 14 FT1 FT4 HL VERTITECK® GSIA XLPE (-40°C) 3/C SIZE (AWG OR KCMIL) 15,000 V DIR BUR SUN RES CSA MONTH-YEAR - SEQUENTIAL PRINT

Options:

- Three ground (bonding) conductors

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands
- Cost-effective alternative to installation in conduit
- Typical vertical installations include mine shafts, tall commercial buildings, inclined tunnels and vertical cable trays
(Note that the overall jacket is required for all damp and wet locations and for all corrosive environments: CE Code Part 1, Rules 12-708 and 22-200)

Features:

- Rated at 90°C wet or dry
- The jacket under the armor (inner jacket) is designed with longitudinal raised ribs. The armor is then applied and bites into these ribs to provide a solidly locked construction. This feature enables the cable to be self-supporting (core will not slip) during vertical installation when cable weight is supported by the copper conductors
- Lighter than mine shaft cable with conventional steel wire armor (SWA)
- More flexible than SWA cables, resulting in easier handling during installation
- Terminations and connections to electrical cabinets are similar to standard TECK90 cables
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174
- CSA Standard C68.3

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)								COPPER WEIGHT		NET WEIGHT		MAXIMUM SELF-SUPPORTING LENGTH** (M)
				INSULATION		INSULATION SHIELD		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm					

2 AWG THRU 750 kcmil—THREE CONDUCTOR—133% INS. LEVEL, 220 MILS INS. (5.59 mm)—15 kV

17497.540200*	3	2	6	0.76	19.3	0.82	20.8	2.50	63.5	2.66	67.6	862	1283	4138	6157	85
17497.540100*	3	1	6	0.79	20.1	0.85	21.6	2.57	65.3	2.73	69.3	1034	1539	4424	6583	100
17497.545100*	3	1/0	6	0.83	21.1	0.89	22.6	2.65	67.3	2.81	71.4	1245	1853	4765	7090	118
17497.545200*	3	2/0	6	0.87	22.1	0.93	23.6	2.74	69.6	2.90	73.7	1513	2251	5181	7709	137
17497.545300*	3	3/0	4	0.92	23.4	0.98	24.9	2.84	72.1	3.00	76.2	1899	2826	5757	8566	155
17497.545400*	3	4/0	4	0.97	24.6	1.03	26.2	2.95	74.9	3.12	79.2	2321	3454	6392	9511	176
17497.546000*	3	250	4	1.01	25.7	1.09	27.7	3.08	78.2	3.27	83.1	2697	4013	7096	10559	188
17497.546200*	3	350	3	1.12	28.4	1.18	30.0	3.36	85.3	3.54	89.9	3692	5494	8674	12907	215
17497.546500*	3	500	3	1.23	31.2	1.30	33.0	3.62	91.9	3.80	96.5	5218	7764	10646	15841	250
17497.547000*	3	750	2	1.41	35.8	1.48	37.6	4.00	101.6	4.19	106.4	8124	12089	14417	21452	277

Dimensions and weights are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Maximum self-supporting lengths are based on safety factor of 5 and a tensile strength of 37,000 psi for soft drawn copper. Higher safety factors or lower tensile strength values may be required to address more stringent safety regulations.



Phone: 888-593-3355
www.generalcable.com

VERTITECK® HVTECK

TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored
15 kV, CSA HVTECK, 100% Ins. Level, 175 Mils, Three Conductor

Product Construction:

Conductor:

- 2 AWG thru 750 kcmil bare copper compact Class B strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TR-XLPE)

Insulation Shield:

- This consists of a semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
- Color code: black, red, or blue colored tape placed longitudinally under the copper tape shield

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Galvanized Steel Interlocked Armor (GSIA)

Overall Jacket:

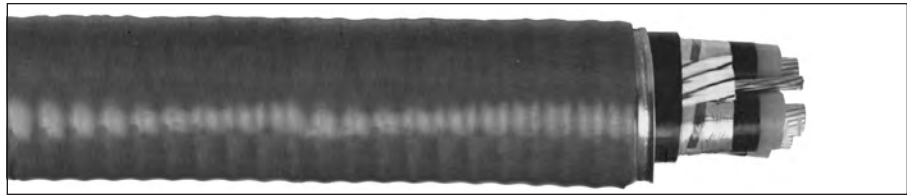
- Lead-free, ACID-FLAME-CHECK ✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Print:

- GENERAL CABLE® ACID-FLAME-CHECK ✓[®] AG 14 FT1 FT4 HL VERTITECK® GSIA XLPE (-40°C) 3/C SIZE (AWG OR KCMIL) 15,000 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK

Options:

- Three ground (bonding) conductors



Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands
- Cost-effective alternative to installation in conduit
- Typical vertical installations include mine shafts, tall commercial buildings, inclined tunnels and vertical cable trays
(Note that the overall jacket is required for all damp and wet locations and for all corrosive environments: CE Code Part 1, Rules 12-708 and 22-200)

Features:

- Rated at 90°C wet or dry
- The jacket under the armor (inner jacket) is designed with longitudinal raised ribs. The armor is then applied and bites into these ribs to provide a solidly locked construction. This feature enables the cable to be self-supporting (core will not slip) during vertical installation when cable weight is supported by the copper conductors
- Lighter than mine shaft cable with conventional steel wire armor (SWA)
- More flexible than SWA cables, resulting in easier handling during installation

Features (cont'd.):

- Terminations and connections to electrical cabinets are similar to standard TECK90 cables
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174
- CSA Standard C68.3

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)								COPPER WEIGHT		NET WEIGHT		MAXIMUM SELF-SUPPORTING LENGTH** (M)
				INSULATION		INSULATION SHIELD		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm					

2 AWG THRU 750 kcmil—THREE CONDUCTOR—100% INS. LEVEL, 175 MILS INS. (4.45 mm)—15 kV

17497.440200*	3	2	6	0.67	17.0	0.72	18.3	2.30	58.4	2.46	62.5	845	1257	3761	5596	94
17497.440100*	3	1	6	0.70	17.8	0.76	19.3	2.37	60.2	2.53	64.3	1017	1513	4022	5985	110
17497.445100*	3	1/0	6	0.74	18.8	0.80	20.3	2.46	62.5	2.61	66.3	1229	1829	4385	6525	128
17497.445200*	3	2/0	6	0.78	19.8	0.84	21.3	2.55	64.8	2.71	68.8	1497	2228	4800	7142	147
17497.445300*	3	3/0	4	0.83	21.1	0.89	22.6	2.67	67.8	2.83	71.9	1882	2800	5354	7967	166
17497.445400*	3	4/0	4	0.88	22.4	0.94	23.9	2.79	70.9	2.95	74.9	2304	3428	5979	8897	188
17497.446000*	3	250	4	0.92	23.4	0.98	24.9	2.89	73.4	3.05	77.5	2677	3983	6518	9699	204
17497.446200*	3	350	3	1.02	25.9	1.09	27.7	3.15	80.0	3.33	84.6	3675	5468	8043	11968	231
17497.446500*	3	500	3	1.14	29.0	1.21	30.7	3.47	88.1	3.66	93.0	5111	7605	10132	15076	262
17497.447000*	3	750	2	1.32	33.5	1.39	35.3	3.86	98.0	4.04	102.6	7555	11242	13403	19944	298

Dimensions and weight are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Maximum self-supporting lengths are based on safety factor of 5 and a tensile strength of 37,000 psi for soft drawn copper. Higher safety factors or lower tensile strength values may be required to address more stringent safety regulations.

ACWU

XLPE/AIA/PVC, Control, Armored
600 V, CSA ACWU90 (-40°C), Single Conductor



Product Construction:

Conductor:

- 4/0 AWG thru 1000 kcmil bare ACM aluminum (8000 series aluminum) compact Class B strand

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: black, marked "SR"

Ground (Bonding) Conductor:

- The conductor is a concentric serving of solid bare aluminum (ACM) wires applied over the insulation

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

- ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE[®] MI ACID-FLAME-CHECK ✓✓[®] AG14 FT4 HL ACWU90 XLPE (-40°C) 1/C SIZE (AWG OR KCMIL) AL 600 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands
- For service entrance installations

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 51 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, nominal standard lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for cut to length, lagging, pulling eyes, paralleling and plexing

Note: Not for sale in the U.S.

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	MIN. AVG. INSULATION THICKNESS		NOMINAL DIAMETER (OVER)						ALUMINUM WEIGHT**		NET WEIGHT		AMPACITY*** (30°C AMBIENT)
						INSULATION		ARMOR		CABLE						
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	

4/0 AWG THRU 1000 kcmil—ONE CONDUCTOR—600 V

11281.015400	1	4/0	2	0.055	1.40	0.591	15.01	0.940	23.88	1.036	26.31	260	387	504	750	315
11281.016000	1	250	1	0.065	1.65	0.658	16.71	1.007	25.58	1.103	28.02	312	464	600	893	355
11281.016200	1	350	1/0	0.065	1.65	0.754	19.15	1.103	28.02	1.199	30.45	423	630	745	1107	445
11281.016500	1	500	2/0	0.065	1.65	0.872	22.15	1.221	31.01	1.317	33.45	594	884	952	1417	545
11281.016700	1	600	2/0	0.080	2.03	0.985	25.02	1.334	33.88	1.430	36.32	686	1021	1099	1635	690
11281.017000	1	750	3/0	0.080	2.03	1.080	27.43	1.429	36.30	1.525	38.74	848	1262	1305	1942	785
11281.017500	1	1000	3/0	0.080	2.03	1.230	31.42	1.667	42.34	1.779	45.19	1093	1627	1704	2536	845

Dimensions and weight are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Conductor and ground weight.

***Ampacity is based on CE Code Part 1, Table 3 (single conductor in free air) and Rule 4-004.

ACWU

XLPE/AIA/PVC, Control, Armored
600 V, CSA ACWU90 (-40°C), Three Conductor

Product Construction:

Conductor:

- 6 AWG thru 750 kcmil bare ACM aluminum (8000 series aluminum) compact Class B strand

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 4 AWG to 2 AWG—black, white and red; 1/0 AWG to 750 kcmil—per ICEA Method 4, individual conductors colored black with conductor number surface printed in contrasting ink

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare aluminum (ACM) conductor

Aarmor:

- Aluminum Interlocked Armor (AIA)

Jacket:

- ACID-FLAME-CHECK ✓✓[®] flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE[®] MI ACID-FLAME-CHECK ✓✓[®] AG14 FT4 HL ACWU90 XLPE (-40°C)3/C SIZE (AWG OR KCMIL) AL 600 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK



Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands
- For service entrance installations

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 51 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, nominal standard lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for cut to length, lagging and pulling eyes

Note: Not for sale in the U.S.

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	MIN. AVG. INSULATION THICKNESS		NOMINAL DIAMETER (OVER)						ALUMINUM WEIGHT*		NET WEIGHT		AMPACITY** (30°C AMBIENT)
						INSULATION		ARMOR		CABLE						
						INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	
6 AWG THRU 750 kcmil — THREE CONDUCTOR — 600 V																
11281.030600	3	6	8	0.045	1.14	0.266	6.76	0.783	19.89	0.879	22.33	92	137	325	484	55
11281.030400	3	4	6	0.045	1.14	0.310	7.87	0.918	23.32	1.014	25.76	145	216	441	657	75
11281.030200	3	2	6	0.045	1.14	0.365	9.27	1.044	26.52	1.140	28.96	212	316	564	840	100
11281.030100	3	1	4	0.045	1.14	0.418	10.62	1.165	29.59	1.261	32.03	275	409	677	1008	115
11281.035100	3	1/0	4	0.055	1.40	0.456	11.58	1.252	31.80	1.348	34.24	336	500	783	1166	135
11281.035200	3	2/0	4	0.055	1.40	0.496	12.60	1.343	34.11	1.439	36.55	414	616	897	1336	150
11281.035300	3	3/0	4	0.055	1.40	0.543	13.79	1.450	36.83	1.546	39.27	512	762	1047	1559	175
11281.035400	3	4/0	4	0.055	1.40	0.593	15.06	1.565	39.75	1.661	42.19	636	947	1215	1809	205
11281.036000	3	250	2	0.065	1.65	0.662	16.81	1.812	46.02	1.924	48.87	770	1146	1551	2309	230
11281.036200	3	350	2	0.065	1.65	0.757	19.23	2.029	51.54	2.141	54.38	1050	1563	1951	2905	280
11281.036500	3	500	1	0.065	1.65	0.878	22.30	2.306	58.57	2.418	61.42	1494	2224	2562	3815	350
11281.036700	3	600	1	0.080	2.03	0.984	24.99	2.424	61.57	2.563	65.10	1791	2667	3035	4519	385
11281.037000	3	750	1/0	0.080	2.03	1.077	27.36	2.706	68.73	2.902	73.71	2221	3307	3703	5513	435

Dimensions and weight are nominal; subject to industry tolerances.

*Conductor and ground weight.

**Ampacity is based on CE Code Part 1, Table 4 (three conductors in raceway [conduit]) and Rule 4-004.

ACWU

XLPE/AIA/PVC, Control, Armored 600 V, CSA ACWU90 (-40°C), Four Conductor



Product Construction:

Conductor:

- 2 AWG thru 750 kcmil bare ACM aluminum (8000 series aluminum) compact Class B strand

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 2 AWG—black, white and red; 1 AWG to 750 kcmil—per ICEA Method 4, individual conductors colored black with conductor number surface printed in contrasting ink

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare aluminum (ACM) conductor

Armor:

- Aluminum Interlocked Armor (AIA)

Jacket:

- ACID-FLAME-CHECK ✓✓® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Print:

- GENERAL CABLE® MI ACID-FLAME-CHECK ✓✓® AG14 FT4 HL ACWU90 XLPE (-40°C) 4/C SIZE (AWG OR KCMIL) AL 600 V DIR BUR SUN RES CSA MONTH-YEAR SEQUENTIAL LENGTH MARK

Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands
- For service entrance installations

Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Cost-effective alternative to installations in conduit
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 51 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

Packaging:

- For Canadian customers, nominal standard lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for cut lengths, lagging and pulling eyes

Note: Not for sale in the U.S.

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	MIN. AVG. INSULATION THICKNESS		NOMINAL DIAMETER (OVER)						ALUMINUM WEIGHT**		NET WEIGHT		AMPACITY*** (30°C AMBIENT)
						INSULATION		ARMOR		CABLE						
						INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	
2 AWG THRU 750 kcmil—FOUR CONDUCTOR—600 V																
11281.040200	4	2	6	0.045	1.14	0.365	9.27	1.091	27.71	1.187	30.15	275	410	634	943	100
11281.040100	4	1	4	0.055	1.40	0.418	10.62	1.219	30.96	1.315	33.40	364	542	772	1149	115
11281.045100	4	1/0	4	0.055	1.40	0.456	11.58	1.311	33.30	1.407	35.74	435	648	869	1323	135
11281.045200	4	2/0	4	0.055	1.40	0.496	12.60	1.407	35.74	1.503	38.18	540	804	1037	1543	150
11281.045300	4	3/0	4	0.055	1.40	0.543	13.79	1.611	40.92	1.723	43.76	671	998	1337	1990	175
11281.045400	4	4/0	4	0.055	1.40	0.593	15.06	1.732	43.99	1.844	46.84	835	1243	1556	2316	205
11281.046000	4	250	2	0.065	1.65	0.662	16.81	1.898	48.21	2.010	51.05	1006	1497	1836	2732	230
11281.046200	4	350	2	0.065	1.65	0.757	19.23	2.127	54.03	2.239	56.87	1379	2052	2335	3475	280
11281.046500	4	500	1	0.065	1.65	0.878	22.30	2.419	61.44	2.561	65.05	1966	2925	3165	4710	350
11281.046700*	4	600	1	0.080	2.03	0.984	24.99	2.678	68.02	2.817	71.55	2362	3515	3773	5615	385
11281.047000	4	750	1/0	0.080	2.03	1.077	27.36	2.900	73.66	3.042	77.27	2929	4358	4482	6670	435

Dimensions and weight are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Conductor and ground weight.

***Ampacity is based on CE Code Part 1, Table 4 (three conductors in raceway [conduit]) and Rule 4-004.

Ampacity of 4 conductor cable is based on 3 current-carrying conductors and 1 neutral.

300 V - 35 kV CCW® Armored Cables for Hazardous Locations

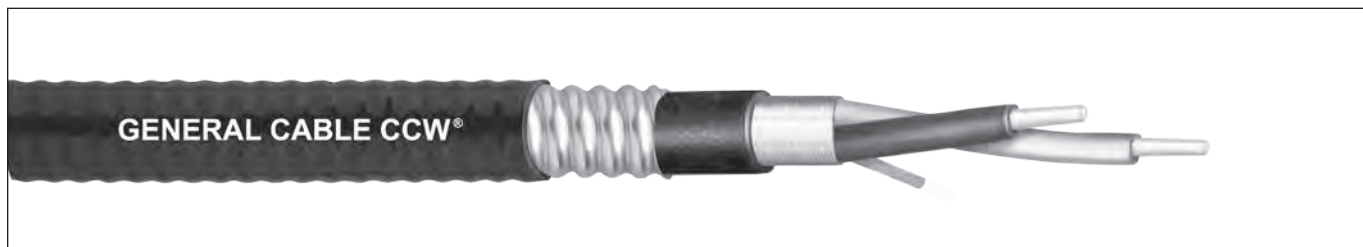
SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
9025	CCW® Armor Thermocouple Extension, Single Pair, Overall Shield (OS) UL Type ITC-HL/PLTC, PVC, 105°C, ABS CWCMC	Apr. 2011
9050	CCW® Armor Thermocouple Extension, Pairs, Overall Shield (OS) UL Type ITC-HL/PLTC, PVC, 105°C, ABS CWCMC	Apr. 2011
9075	CCW® Armor Thermocouple Extension, Pairs, Individual and Overall Shield (IS-OS) UL Type ITC-HL/PLTC, PVC, 105°C, ABS CWCMC	Apr. 2011
9125	CCW® Armor 300 V Instrumentation, Pairs/Triads, Overall Shield (OS) UL Type ITC-HL/PLTC, XLPE, 90°C, ABS CWCMC	Apr. 2011
9150	CCW® Armor 300 V Instrumentation, Pairs/Triads, Individual and Overall Shield (IS-OS) UL Type ITC-HL/PLTC, XLPE, 90°C, ABS CWCMC	Apr. 2011
9225	CCW® Armor 300 V Instrumentation, Pairs/Triads, Overall Shield (OS) UL Type ITC-HL/PLTC, PVC, 105°C, ABS CWCMC	Apr. 2011
9250	CCW® Armor 300 V Instrumentation, Pairs/Triads, Individual and Overall Shield (IS-OS) UL Type ITC-HL/PLTC, PVC, 105°C, ABS CWCMC	Apr. 2011
9325	CCW® Armor 600 V Instrumentation, Pairs/Triads, Overall Shield (OS) UL Type MC-HL, PVC/Nylon, 90°C, ABS CWCMC	Feb. 2011
9350	CCW® Armor 600 V Instrumentation, Pairs/Triads, Individual and Overall Shield (IS-OS) UL Type MC-HL, PVC/Nylon, 90°C, ABS CWCMC	Feb. 2011
9500	CCW® Armor 600 V Control With Grounding Conductor UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Feb. 2011
9510	CCW® Armor 600 V Control With Bare Grounding Conductor UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Feb. 2011
9525	CCW® Armor 600 V Control Without Grounding Conductor UL Type MC, XLPE, 90°C, ABS CWCMC	Feb. 2011
9600	CCW® Armor 600 V Power, 3/C VFD and 4/C UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Feb. 2011
9615	CCW® Armor 2000 V Power, 3/C VFD UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Feb. 2011
9625	CCW® Armor 600 V Composite Power and Control UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Jan. 2011
9650	CCW® Armor 600 V Composite Power and Control Without Ground UL Type MC, XLPE, 90°C, ABS CWCMC	Feb. 2011

300 V - 35 kV CCW® Armored Cables for Hazardous Locations

SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
9675	CCW® Armor 1000 V Power, 3/C VFD CSA Type RA90, HL, XLPE, 90°C	Mar. 2012
9700	CCW® Armor 2.4 kV Power, Nonshielded, 3/C VFD UL Type MC-HL or MV-90, EPR, 90°C, ABS CWCMC	Feb. 2011
9800	CCW® Armor 5 kV 133%/8 kV 100% Power, Shielded, 3/C VFD UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9815	CCW® Armor 8 kV 133% Power, Shielded, 3/C VFD UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9825	CCW® Armor 15 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9835	CCW® Armor 15 kV 133% Power, Shielded, 3/C UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9845	CCW® Armor 25 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9855	CCW® Armor 25 kV 133%/35 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9875	CCW® Armor 35 kV 133% Power, Shielded, 3/C UL Type MC-HL or MV-105, EPR, 105°C, ABS CWCMC	Feb. 2011
9900	CCW® Armor CCW® Armored Cable Tool Kit	Jan. 2010

CCW[®] Armored Thermocouple, Single Pair, Overall Shield

UL Type ITC-HL/PLTC, PVC, 105°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- 16 AWG solid alloy wire per ANSI MC 96.1

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC), rated 105°C per UL Standards 13 and 2250
- Color-coded per ANSI

Pair Assembly:

- Insulated conductors are cabled together with a left-hand lay

Overall Shield:

- Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, same size as insulated conductors

Inner Jacket:

- Flame-retardant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Nylon rip cord to facilitate jacket removal

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250
- ANSI color-coded
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Thermocouple Extension cables provide superior protection and reliability against physical damage for use in instrumentation and process control applications requiring ITC-HL or PLTC wiring methods
- For use as Power Limited Tray Cable on circuits rated 150 V or less and 5 amps or less in Class 2 or Class 3 circuits in accordance with NEC Article 725
- For use as Instrumentation Tray Cable on circuits rated 150 V or less and 5 amps or less in accordance with NEC Article 727
- Recognized for use in Class I, II, and III, Divisions 1 and 2; or Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503, and 505
- Installed indoors or outdoors, in wet or dry locations, in a raceway, as aerial cable on a messenger, in cable trays, or for direct burial
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides superior mechanical protection and an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Meets cold impact at -40°C

Specifications:

Design Adherence:

- UL 13 Power-Limited Circuit Cables
- UL 2250 Instrumentation Tray Cable
- UL 1569 Metal Clad Cables
- UL 1309/CSA C22.2 No. 245 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type PLTC, SUN RES, DIR BUR, -40°C, UL File # E36118
- UL Type ITC-HL, UL File # E177408
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Thermocouple, Single Pair, Overall Shield

UL Type ITC-HL/PLTC, PVC, 105°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	WIRE TYPE/ SIZE (AWG)	NO. OF PAIRS	INSULATION THICKNESS		INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT	
			mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m
9025.16010001	EX / 16	1	15	0.38	35	0.89	0.25	6.4	0.45	11.4	50	1.27	0.56	14.2	0.25	132	196
9025.16010002	JX / 16	1	15	0.38	35	0.89	0.25	6.4	0.45	11.4	50	1.27	0.56	14.2	0.25	132	196
9025.16010003	KX / 16	1	15	0.38	35	0.89	0.25	6.4	0.45	11.4	50	1.27	0.56	14.2	0.25	132	196
9025.16010004	TX / 16	1	15	0.38	35	0.89	0.25	6.4	0.45	11.4	50	1.27	0.56	14.2	0.25	132	196

Dimensions and weights are nominal; subject to industry tolerances.

¹ Cross-sectional area for cable tray fill is in accordance with NEC[®] Section 392.22.

ANSI MC 96.1 CONDUCTOR ALLOY AND COLOR CODE								
COND. TYPE	POSITIVE WIRE		NEGATIVE WIRE		OUTER JACKET	TEMP. RANGE	LIMITS OF ERROR	NOM. LOOP RESISTANCE PER 100 FT @ 20°C
	ALLOY	COLOR	ALLOY	COLOR				
EX	Chromel	Purple	Constantan	Red	Purple	0°C To +200°C	+/- 1.7°C	27.8 Ohms
JX	Iron	White	Constantan	Red	Black	0°C To +200°C	+/- 2.2°C	13.9 Ohms
KX	Chromel	Yellow	Alumel	Red	Yellow	0°C To +200°C	+/- 2.2°C	23.6 Ohms
TX	Copper	Blue	Constantan	Red	Blue	-60°C To +100°C	+/- 1.0°C	12.0 Ohms



Phone: 888-593-3355
www.generalcable.com

CCW® Armored Thermocouple, Pairs, Overall Shield

UL Type ITC-HL/PLTC, PVC, 105°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- 20 AWG solid alloy wire per ANSI MC 96.1

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC), rated 105°C per UL Standards 13 and 2250
- Color-coded per ANSI with one conductor in each pair printed alphanumerically for easy identification

Cable Assembly:

- Individual pairs and communication wire are cabled together with a left-hand lay
- Communication wire: 22 AWG solid bare copper, flame-retardant Polyvinyl Chloride (PVC), rated 105°C, orange

Overall Shield:

- Flexfoil® aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, same size as insulated conductors

Inner Jacket:

- Flame-retardant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250
- ANSI color-coded
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Nylon rip cord to facilitate jacket removal

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250
- ANSI color-coded
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Thermocouple Extension cables provide superior protection and reliability against physical damage for use in instrumentation and process control applications requiring ITC-HL or PLTC wiring methods
- For use as Power Limited Tray Cable on circuits rated 150 V or less and 5 amps or less in Class 2 or Class 3 circuits in accordance with NEC Article 725
- For use as Instrumentation Tray Cable on circuits rated 150 V or less and 5 amps or less in accordance with NEC Article 727
- Recognized for use in Class I, II, and III, Divisions 1 and 2; or Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503, and 505
- Installed indoors or outdoors, in wet or dry locations, in a raceway, as aerial cable on a messenger, in cable trays, or for direct burial
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides superior mechanical protection and an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Meets cold impact at -40°C

Specifications:

Design Adherence:

- UL 13 Power-Limited Circuit Cables
- UL 2250 Instrumentation Tray Cable
- UL 1569 Metal Clad Cables
- UL 1309/CSA C22.2 No. 245 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
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- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type PLTC, SUN RES, DIR BUR, -40°C, UL File # E36118
- UL Type ITC-HL, UL File # E177408
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Thermocouple, Pairs, Overall Shield

UL Type ITC-HL/PLTC, PVC, 105°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	WIRE TYPE/ SIZE (AWG)	NO. OF PAIRS	INSULATION THICKNESS		COMMUNICATION WIRE				INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹	APPROXIMATE NET WEIGHT		
			mils	mm	SIZE AWG	INS. THICKNESS		THICKNESS		INCHES		mm		mm		INCHES		mm		SQ. IN.	LBS/1000 FT	kg/1000 m
						mils	mm	mils	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm					

20 AWG TYPE EX MULTIPLE PAIRS OVERALL SHIELDED THERMOCOUPLE EXTENSION CABLE

9050.20041221	EX / 20	4	15	0.38	22	12	0.30	40	1.02	0.36	9.1	0.58	14.7	50	1.27	0.69	17.5	0.38	195	290
9050.20081221	EX / 20	8	15	0.38	22	12	0.30	50	1.27	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	277	413
9050.20101221	EX / 20	10	15	0.38	22	12	0.30	50	1.27	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	337	501
9050.20121221	EX / 20	12	15	0.38	22	12	0.30	50	1.27	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	354	527
9050.20161221	EX / 20	16	15	0.38	22	12	0.30	50	1.27	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	422	628
9050.20201221	EX / 20	20	15	0.38	22	12	0.30	60	1.52	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	485	721
9050.20241221	EX / 20	24	15	0.38	22	12	0.30	60	1.52	0.77	19.6	1.02	25.9	50	1.27	1.13	28.7	1.02	552	821
9050.20361221	EX / 20	36	15	0.38	22	12	0.30	70	1.78	0.94	23.9	1.19	30.2	50	1.27	1.30	33.0	1.34	738	1,099
9050.20501221	EX / 20	50	15	0.38	22	12	0.30	70	1.78	1.09	27.7	1.34	34.0	50	1.27	1.45	36.8	1.67	925	1,377

20 AWG TYPE JX MULTIPLE PAIRS OVERALL SHIELDED THERMOCOUPLE EXTENSION CABLE

9050.20041222	JX / 20	4	15	0.38	22	12	0.30	40	1.02	0.36	9.1	0.58	14.7	50	1.27	0.69	17.5	0.38	194	288
9050.20081222	JX / 20	8	15	0.38	22	12	0.30	50	1.27	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	276	411
9050.20101222	JX / 20	10	15	0.38	22	12	0.30	50	1.27	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	335	498
9050.20121222	JX / 20	12	15	0.38	22	12	0.30	50	1.27	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	352	524
9050.20161222	JX / 20	16	15	0.38	22	12	0.30	50	1.27	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	419	624
9050.20201222	JX / 20	20	15	0.38	22	12	0.30	60	1.52	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	480	715
9050.20241222	JX / 20	24	15	0.38	22	12	0.30	60	1.52	0.77	19.6	1.02	25.9	50	1.27	1.13	28.7	1.02	547	814
9050.20361222	JX / 20	36	15	0.38	22	12	0.30	70	1.78	0.94	23.9	1.19	30.2	50	1.27	1.30	33.0	1.34	731	1,088
9050.20501222	JX / 20	50	15	0.38	22	12	0.30	70	1.78	1.09	27.7	1.34	34.0	50	1.27	1.45	36.8	1.67	914	1,360

20 AWG TYPE KX MULTIPLE PAIRS OVERALL SHIELDED THERMOCOUPLE EXTENSION CABLE

9050.20041223	KX / 20	4	15	0.38	22	12	0.30	40	1.02	0.36	9.1	0.58	14.7	50	1.27	0.69	17.5	0.38	195	290
9050.20081223	KX / 20	8	15	0.38	22	12	0.30	50	1.27	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	277	413
9050.20101223	KX / 20	10	15	0.38	22	12	0.30	50	1.27	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	337	501
9050.20121223	KX / 20	12	15	0.38	22	12	0.30	50	1.27	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	354	527
9050.20161223	KX / 20	16	15	0.38	22	12	0.30	50	1.27	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	422	628
9050.20201223	KX / 20	20	15	0.38	22	12	0.30	60	1.52	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	485	721
9050.20241223	KX / 20	24	15	0.38	22	12	0.30	60	1.52	0.77	19.6	1.02	25.9	50	1.27	1.13	28.7	1.02	552	821
9050.20361223	KX / 20	36	15	0.38	22	12	0.30	70	1.78	0.94	23.9	1.19	30.2	50	1.27	1.30	33.0	1.34	738	1,099
9050.20501223	KX / 20	50	15	0.38	22	12	0.30	70	1.78	1.09	27.7	1.34	34.0	50	1.27	1.45	36.8	1.67	925	1,377

20 AWG TYPE TX MULTIPLE PAIRS OVERALL SHIELDED THERMOCOUPLE EXTENSION CABLE

9050.20041224	TX / 20	4	15	0.38	22	12	0.30	40	1.02	0.36	9.1	0.58	14.7	50	1.27	0.69	17.5	0.38	196	291
9050.20081224	TX / 20	8	15	0.38	22	12	0.30	50	1.27	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	279	416
9050.20101224	TX / 20	10	15	0.38	22	12	0.30	50	1.27	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	339	504
9050.20121224	TX / 20	12	15	0.38	22	12	0.30	50	1.27	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	354	527
9050.20161224	TX / 20	16	15	0.38	22	12	0.30	50	1.27	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	426	634
9050.20201224	TX / 20	20	15	0.38	22	12	0.30	60	1.52	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	489	727
9050.20241224	TX / 20	24	15	0.38	22	12	0.30	60	1.52	0.77	19.6	1.02	25.9	50	1.27	1.13	28.7	1.02	557	829
9050.20361224	TX / 20	36	15	0.38	22	12	0.30	70	1.78	0.94	23.9	1.19	30.2	50	1.27	1.30	33.0	1.34	747	1,111
9050.20501224	TX / 20	50	15	0.38	22	12	0.30	70	1.78	1.09	27.7	1.34	34.0	50	1.27	1.45	36.8	1.67	935	1,392

Dimensions and weights are nominal; subject to industry tolerances.

¹ Cross-sectional area for cable tray fill is in accordance with NEC[®] Section 392.22.

COND. TYPE	ANSI MC 96.1 CONDUCTOR ALLOY AND COLOR CODE					TEMP. RANGE	LIMITS OF ERROR	NOM. LOOP RESISTANCE PER 100 FT @ 20°C
	POSITIVE WIRE		NEGATIVE WIRE		OVERALL JACKET COLOR			
	ALLOY	COLOR	ALLOY	COLOR				
EX	Chromel	Purple	Constantan	Red	Purple	0°C To +200°C	+/- 1.7°C	70.7 Ohms
JX	Iron	White	Constantan	Red	Black	0°C To +200°C	+/- 2.2°C	35.7 Ohms
KX	Chromel	Yellow	Alumel	Red	Yellow	0°C To +200°C	+/- 2.2°C	59.0 Ohms
TX	Copper	Blue	Constantan	Red	Blue	-60°C To +100°C	+/- 1.0°C	29.8 Ohms



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CCW[®] Armored Thermocouple, Pairs, Individual and Overall Shield

UL Type ITC-HL/PLTC, PVC, 105°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- 20 AWG solid alloy wire per ANSI MC 96.1

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC), rated 105°C per UL Standards 13 and 2250
- ANSI color-coded insulation, with one conductor in each pair printed alpha numerically for easy identification

Shielded Pairs:

- Isolated and individually twisted pairs with a Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, two sizes smaller than insulated conductors

Cable Assembly:

- Individually shielded pairs and communication wire are cabled together with a left-hand lay
- Communication wire: 22 AWG solid bare copper, flame-retardant Polyvinyl Chloride (PVC), rated 105°C, orange

Overall Shield:

- Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, same size as insulated conductors

Inner Jacket:

- Flame-retardant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250
- ANSI color-coded inner jacket
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Nylon rip cord to facilitate jacket removal

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250
- ANSI color-coded overall jacket
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Thermocouple Extension cables with individually shielded pairs and an overall shield provide superior protection and reliability against physical damage for use in instrumentation and process control applications requiring ITC-HL or PLTC wiring methods where shielding against both external EMI and EMI between pairs is required
- For use as Power Limited Tray Cable on circuits rated 150 V or less and 5 amps or less in Class 2 or Class 3 circuits in accordance with NEC Article 725
- For use as Instrumentation Tray Cable on circuits rated 150 V or less and 5 amps or less in accordance with NEC Article 727
- Recognized for use in Class I, II, and III, Divisions 1 and 2; or Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503, and 505

Applications: (cont'd)

- Installed indoors or outdoors, in wet or dry locations, in a raceway, as aerial cable on a messenger, in cable trays, or for direct burial
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides superior mechanical protection and an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Meets cold impact at -40°C

Specifications:

Design Adherence:

- UL 13 Power-Limited Circuit Cables
- UL 2250 Instrumentation Tray Cable
- UL 1569 Metal Clad Cables
- UL 1309/CSA C22.2 No. 245 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type PLTC, SUN RES, DIR BUR, -40°C, UL File # E36118
- UL Type ITC-HL, UL File # E177408
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Thermocouple, Pairs, Individual and Overall Shield

UL Type ITC-HL/PLTC, PVC, 105°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	WIRE TYPE/ SIZE (AWG)	NO. OF PAIRS	INSULATION THICKNESS		COMMUNICATION WIRE				INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT	
			mils	mm	SIZE AWG	INS. THICKNESS mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT		kg/1000 m	

20 AWG TYPE EX MULTIPLE PAIRS INDIVIDUAL AND OVERALL SHIELDED THERMOCOUPLE EXTENSION CABLE

9075.20041221	EX / 20	4	15	0.38	22	12	0.30	50	1.27	0.40	10.2	0.62	15.7	50	1.27	0.73	18.5	0.42	235	349
9075.20081221	EX / 20	8	15	0.38	22	12	0.30	50	1.27	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	313	466
9075.20101221	EX / 20	10	15	0.38	22	12	0.30	50	1.27	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	388	577
9075.20121221	EX / 20	12	15	0.38	22	12	0.30	50	1.27	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	417	621
9075.20161221	EX / 20	16	15	0.38	22	12	0.30	60	1.52	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	494	735
9075.20201221	EX / 20	20	15	0.38	22	12	0.30	60	1.52	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	571	850
9075.20241221	EX / 20	24	15	0.38	22	12	0.30	60	1.52	0.90	22.9	1.15	29.2	50	1.27	1.26	32.0	1.26	681	1,014
9075.20361221	EX / 20	36	15	0.38	22	12	0.30	70	1.78	1.09	27.7	1.34	34.0	50	1.27	1.45	36.8	1.67	877	1,305
9075.20501221	EX / 20	50	15	0.38	22	12	0.30	70	1.78	1.22	31.0	1.47	37.3	50	1.27	1.58	40.1	1.99	1,201	1,787

20 AWG TYPE JX MULTIPLE PAIRS INDIVIDUAL AND OVERALL SHIELDED THERMOCOUPLE EXTENSION CABLE

9075.20041222	JX / 20	4	15	0.38	22	12	0.30	50	1.27	0.40	10.2	0.62	15.7	50	1.27	0.73	18.5	0.42	234	348
9075.20081222	JX / 20	8	15	0.38	22	12	0.30	50	1.27	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	311	463
9075.20101222	JX / 20	10	15	0.38	22	12	0.30	50	1.27	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	386	574
9075.20121222	JX / 20	12	15	0.38	22	12	0.30	50	1.27	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	413	615
9075.20161222	JX / 20	16	15	0.38	22	12	0.30	60	1.52	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	491	730
9075.20201222	JX / 20	20	15	0.38	22	12	0.30	60	1.52	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	567	844
9075.20241222	JX / 20	24	15	0.38	22	12	0.30	60	1.52	0.90	22.9	1.15	29.2	50	1.27	1.26	32.0	1.26	676	1,006
9075.20361222	JX / 20	36	15	0.38	22	12	0.30	70	1.78	1.09	27.7	1.34	34.0	50	1.27	1.45	36.8	1.67	870	1,295
9075.20501222	JX / 20	50	15	0.38	22	12	0.30	70	1.78	1.22	31.0	1.47	37.3	50	1.27	1.58	40.1	1.99	1,190	1,771

20 AWG TYPE KX MULTIPLE PAIRS INDIVIDUAL AND OVERALL SHIELDED THERMOCOUPLE EXTENSION CABLE

9075.20041223	KX / 20	4	15	0.38	22	12	0.30	50	1.27	0.40	10.2	0.62	15.7	50	1.27	0.73	18.5	0.42	235	349
9075.20081223	KX / 20	8	15	0.38	22	12	0.30	50	1.27	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	313	466
9075.20101223	KX / 20	10	15	0.38	22	12	0.30	50	1.27	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	388	577
9075.20121223	KX / 20	12	15	0.38	22	12	0.30	50	1.27	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	417	621
9075.20161223	KX / 20	16	15	0.38	22	12	0.30	60	1.52	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	494	735
9075.20201223	KX / 20	20	15	0.38	22	12	0.30	60	1.52	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	571	850
9075.20241223	KX / 20	24	15	0.38	22	12	0.30	60	1.52	0.90	22.9	1.15	29.2	50	1.27	1.26	32.0	1.26	681	1,014
9075.20361223	KX / 20	36	15	0.38	22	12	0.30	70	1.78	1.09	27.7	1.34	34.0	50	1.27	1.45	36.8	1.67	877	1,305
9075.20501223	KX / 20	50	15	0.38	22	12	0.30	70	1.78	1.22	31.0	1.47	37.3	50	1.27	1.58	40.1	1.99	1,201	1,787

20 AWG TYPE TX MULTIPLE PAIRS INDIVIDUAL AND OVERALL SHIELDED THERMOCOUPLE EXTENSION CABLE

9075.20041224	TX / 20	4	15	0.38	22	12	0.30	50	1.27	0.40	10.2	0.62	15.7	50	1.27	0.73	18.5	0.42	236	351
9075.20081224	TX / 20	8	15	0.38	22	12	0.30	50	1.27	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	315	469
9075.20101224	TX / 20	10	15	0.38	22	12	0.30	50	1.27	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	391	581
9075.20121224	TX / 20	12	15	0.38	22	12	0.30	50	1.27	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	418	622
9075.20161224	TX / 20	16	15	0.38	22	12	0.30	60	1.52	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	497	739
9075.20201224	TX / 20	20	15	0.38	22	12	0.30	60	1.52	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	575	856
9075.20241224	TX / 20	24	15	0.38	22	12	0.30	60	1.52	0.90	22.9	1.15	29.2	50	1.27	1.26	32.0	1.26	686	1,022
9075.20361224	TX / 20	36	15	0.38	22	12	0.30	70	1.78	1.09	27.7	1.34	34.0	50	1.27	1.45	36.8	1.67	884	1,316
9075.20501224	TX / 20	50	15	0.38	22	12	0.30	70	1.78	1.22	31.0	1.47	37.3	50	1.27	1.58	40.1	1.99	1,211	1,802

Dimensions and weights are nominal; subject to industry tolerances.

¹ Cross-sectional area for cable tray fill is in accordance with NEC[®] Section 392.22.

COND. TYPE	ANSI MC 96.1 CONDUCTOR ALLOY AND COLOR CODE		POSITIVE WIRE		NEGATIVE WIRE		OVERALL JACKET COLOR	TEMP. RANGE	LIMITS OF ERROR	NOM. LOOP RESISTANCE PER 100 FT @ 20°C
	ALLOY	COLOR	ALLOY	COLOR						
EX	Chromel	Purple	Constantan	Red	Purple	Red	Purple	0°C To +200°C	+/- 1.7°C	70.7 Ohms
JX	Iron	White	Constantan	Red	Black	Red	Black	0°C To +200°C	+/- 2.2°C	35.7 Ohms
KX	Chromel	Yellow	Alumel	Red	Yellow	Red	Yellow	0°C To +200°C	+/- 2.2°C	59.0 Ohms
TX	Copper	Blue	Constantan	Red	Blue	Red	Blue	-60°C To +100°C	+/- 1.0°C	29.8 Ohms



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CCW[®] Armored Instrumentation, Pairs/Triads, Overall Shield

UL Type ITC-HL/PLTC, XLPE, 300 V, 90°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE), rated 90°C per UL Standards 13 and 2250
- Color-coded per ICEA Method 1: pairs – black and white; triads – black, white and red. Each conductor in each pair or triad is printed alphanumerically for easy identification

Cable Assembly:

- Individual pairs or triads and communication wire are cabled together with a left hand lay
- Communication wire: 20 AWG solid bare copper, Cross-linked Polyethylene (XLPE), rated 90°C, orange
- Communication wire is not included on single pair or single triad cables

Overall Shield:

- Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, same size as insulated conductors

Inner Jacket:

- Flame-retardant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Nylon rip cord to facilitate jacket removal

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Instrumentation cables with an overall shield provide superior protection and reliability against physical damage for use in instrumentation and process control applications requiring ITC-HL or PLTC wiring methods where shielding against external EMI is required
- For use as Power Limited Tray Cable on circuits rated 150 V or less and 5 amps or less in Class 2 or Class 3 circuits in accordance with NEC Article 725
- For use as Instrumentation Tray Cable on circuits rated 150 V or less and 5 amps or less in accordance with NEC Article 727
- Recognized for use in Class I, II, and III, Divisions 1 and 2; or Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503, and 505
- Installed indoors or outdoors, in wet or dry locations, in a raceway, as aerial cable on a messenger, in cable trays, or for direct burial

Applications: (cont'd)

- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides superior mechanical protection and an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Meets cold impact at -40°C

Specifications:

Design Adherence:

- UL 13 Power-Limited Circuit Cables
- UL 2250 Instrumentation Tray Cable
- UL 1569 Metal Clad Cables
- UL 1309 / CSA C22.2 No. 245 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type PLTC, SUN RES, DIR BUR, -40°C, UL File # E36118
- UL Type ITC-HL, UL File # E177408
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Instrumentation, Pairs/Triads, Overall Shield

UL Type ITC-HL/PLTC, XLPE, 300 V, 90°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF PAIRS	INSULATION THICKNESS		COMMUNICATION WIRE			INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹	APPROXIMATE NET WEIGHT	
					SIZE	INS. THICKNESS	AWG													
			mils	mm	AWG	mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	SQ. IN.	LBS/1000 FT	kg/1000 m

16 AWG 7W (1.31 mm²) OVERALL SHIELDED PAIRS

9125.16010001	16	1	15	0.38	—	—	—	35	0.89	0.26	6.6	0.43	10.9	50	1.27	0.54	13.7	0.23	135	201
9125.16021201	16	2	15	0.38	20	15	0.38	40	1.02	0.37	9.4	0.58	14.7	50	1.27	0.69	17.5	0.38	235	350
9125.16041201	16	4	15	0.38	20	15	0.38	50	1.27	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	298	443
9125.16081201	16	8	15	0.38	20	15	0.38	60	1.52	0.65	16.5	0.89	22.6	50	1.27	1.00	25.4	0.80	412	613
9125.16121201	16	12	15	0.38	20	15	0.38	60	1.52	0.76	19.3	1.02	25.9	50	1.27	1.13	28.7	1.02	562	836
9125.16161201	16	16	15	0.38	20	15	0.38	60	1.52	0.87	22.1	1.11	28.2	50	1.27	1.22	31.0	1.18	665	990
9125.16241201	16	24	15	0.38	20	15	0.38	70	1.78	1.01	25.7	1.34	34.0	50	1.27	1.45	36.8	1.67	934	1,390
9125.16361201	16	36	15	0.38	20	15	0.38	70	1.78	1.24	31.5	1.56	39.6	60	1.52	1.69	42.9	2.27	1,236	1,840
9125.16501201	16	50	15	0.38	20	15	0.38	80	2.03	1.47	37.3	1.83	46.5	60	1.52	1.96	49.8	3.06	1,734	2,580

16 AWG 7W (1.31 mm²) OVERALL SHIELDED TRIADS

9125.16010002	16	1	15	0.38	—	—	—	35	0.89	0.27	6.9	0.49	12.4	50	1.27	0.60	15.2	0.29	158	235
9125.16021202	16	2	15	0.38	20	15	0.38	40	1.02	0.39	9.9	0.62	15.7	50	1.27	0.73	18.5	0.42	265	394
9125.16041202	16	4	15	0.38	20	15	0.38	50	1.27	0.52	13.2	0.75	19.1	50	1.27	0.86	21.8	0.59	358	533
9125.16081202	16	8	15	0.38	20	15	0.38	60	1.52	0.69	17.5	0.93	23.6	50	1.27	1.04	26.4	0.86	565	841
9125.16121202	16	12	15	0.38	20	15	0.38	60	1.52	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	793	1,179
9125.16161202	16	16	15	0.38	20	15	0.38	70	1.78	0.95	24.1	1.24	31.5	50	1.27	1.35	34.3	1.45	965	1,436
9125.16241202	16	24	15	0.38	20	15	0.38	70	1.78	1.14	29.0	1.42	36.1	50	1.27	1.53	38.9	1.86	1,446	2,152
9125.16361202	16	36	15	0.38	20	15	0.38	80	2.03	1.34	34.0	1.64	41.7	60	1.52	1.78	45.2	2.52	1,913	2,846
9125.16501202	16	50	15	0.38	20	15	0.38	80	2.03	1.57	39.9	1.92	48.8	60	1.52	2.05	52.1	3.34	2,585	3,846

Dimensions and weights are nominal; subject to industry tolerances.

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UL Type ITC-HL/PLTC, XLPE, 300 V, 90°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE), rated 90°C per UL Standards 13 and 2250
- Color-coded per ICEA Method 1: pairs – black and white; triads – black, white and red. Each conductor in each pair or triad is printed alphanumerically for easy identification

Shielded Pairs/Triads:

- Isolated and individually twisted pairs or triads with a Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, two sizes smaller than insulated conductors

Cable Assembly:

- Individually shielded pairs or triads and communication wire are cabled together with a left-hand lay
- Communication wire: 20 AWG solid bare copper, Cross-linked Polyethylene (XLPE), rated 90°C, orange

Overall Shield:

- Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, same size as insulated conductors

Inner Jacket:

- Flame-retardant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Nylon rip cord to facilitate jacket removal

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Instrumentation cables with individually shielded pairs or triads and an overall shield provide superior protection and reliability against physical damage for use in instrumentation and process control applications requiring ITC-HL or PLTC wiring methods where shielding against both external EMI and EMI between groups is required
- For use as Power Limited Tray Cable on circuits rated 150 V or less and 5 amps or less in Class 2 or Class 3 circuits in accordance with NEC Article 725
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Applications: (cont'd)

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- UL 1581 (70,000 BTU/hr)
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Compliances:

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- UL Type ITC-HL, UL File # E177408
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Instrumentation, Pairs/Triads, Individual and Overall Shield

UL Type ITC-HL/PLTC, XLPE, 300 V, 90°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF PAIRS	INSULATION THICKNESS		COMMUNICATION WIRE			INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹	APPROXIMATE NET WEIGHT	
					SIZE	INS. THICKNESS	AWG													
			mils	mm	AWG	mils	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	SQ. IN.	LBS/1000 FT	kg/1000 m

16 AWG 7W (1.31 mm²) OVERALL SHIELDED PAIRS

9150.16010001	16	1	15	0.38	—	—	—	35	0.89	0.26	6.6	0.43	10.9	50	1.27	0.54	13.7	0.23	135	201
9150.16021201	16	2	15	0.38	20	15	0.38	40	1.02	0.37	9.4	0.58	14.7	50	1.27	0.69	17.5	0.38	235	350
9150.16041201	16	4	15	0.38	20	15	0.38	50	1.27	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	298	443
9150.16081201	16	8	15	0.38	20	15	0.38	60	1.52	0.65	16.5	0.89	22.6	50	1.27	1.00	25.4	0.80	412	613
9150.16121201	16	12	15	0.38	20	15	0.38	60	1.52	0.76	19.3	1.02	25.9	50	1.27	1.13	28.7	1.02	562	836
9150.16161201	16	16	15	0.38	20	15	0.38	60	1.52	0.87	22.1	1.11	28.2	50	1.27	1.22	31.0	1.18	665	990
9150.16241201	16	24	15	0.38	20	15	0.38	70	1.78	1.01	25.7	1.34	34.0	50	1.27	1.45	36.8	1.67	934	1,390
9150.16361201	16	36	15	0.38	20	15	0.38	70	1.78	1.24	31.5	1.56	39.6	60	1.52	1.69	42.9	2.27	1,236	1,840
9150.16501201	16	50	15	0.38	20	15	0.38	80	2.03	1.47	37.3	1.83	46.5	60	1.52	1.96	49.8	3.06	1,734	2,580

16 AWG 7W (1.31 mm²) OVERALL SHIELDED TRIADS

9150.16010002	16	1	15	0.38	—	—	—	35	0.89	0.27	6.9	0.49	12.4	50	1.27	0.60	15.2	0.29	158	235
9150.16021202	16	2	15	0.38	20	15	0.38	40	1.02	0.39	9.9	0.62	15.7	50	1.27	0.73	18.5	0.42	265	394
9150.16041202	16	4	15	0.38	20	15	0.38	50	1.27	0.52	13.2	0.75	19.1	50	1.27	0.86	21.8	0.59	358	533
9150.16081202	16	8	15	0.38	20	15	0.38	60	1.52	0.69	17.5	0.93	23.6	50	1.27	1.04	26.4	0.86	565	841
9150.16121202	16	12	15	0.38	20	15	0.38	60	1.52	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	793	1,179
9150.16161202	16	16	15	0.38	20	15	0.38	70	1.78	0.95	24.1	1.24	31.5	50	1.27	1.35	34.3	1.45	965	1,436
9150.16241202	16	24	15	0.38	20	15	0.38	70	1.78	1.14	29.0	1.42	36.1	50	1.27	1.53	38.9	1.86	1,446	2,152
9150.16361202	16	36	15	0.38	20	15	0.38	80	2.03	1.34	34.0	1.64	41.7	60	1.52	1.78	45.2	2.52	1,913	2,846
9150.16501202	16	50	15	0.38	20	15	0.38	80	2.03	1.57	39.9	1.92	48.8	60	1.52	2.05	52.1	3.34	2,585	3,846

Dimensions and weights are nominal; subject to industry tolerances.

¹ Cross-sectional area for cable tray fill is in accordance with NEC[®] Section 392.22.



Phone: 888-593-3355
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CCW[®] Armored Instrumentation, Pairs/Triads, Overall Shield

UL Type ITC-HL/PLTC, PVC, 300 V, 105°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC), rated 105°C per UL Standards 13 and 2250
- Color-coded per ICEA Method 1: pairs – black and white; triads – black, white and red. Each conductor in each pair or triad is printed alphanumerically for easy identification

Cable Assembly:

- Individual pairs or triads and communication wire are cabled together with a left-hand lay
- Communication wire: 22 AWG solid bare copper, flame-retardant Polyvinyl Chloride (PVC), rated 105°C, orange
- Communication wire is not included on single pair or single triad cables

Overall Shield:

- Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, same size as insulated conductors

Inner Jacket:

- Flame-retardant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Nylon rip cord to facilitate jacket removal

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Instrumentation cables with an overall shield provide superior protection and reliability against physical damage for use in instrumentation and process control applications requiring ITC-HL or PLTC wiring methods where shielding against external EMI is required
- For use as Power Limited Tray Cable on circuits rated 150 V or less and 5 amps or less in Class 2 or Class 3 circuits in accordance with NEC Article 725
- For use as Instrumentation Tray Cable on circuits rated 150 V or less and 5 amps or less in accordance with NEC Article 727
- Recognized for use in Class I, II, and III, Divisions 1 and 2; or Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503, and 505
- Installed indoors or outdoors, in wet or dry locations, in a raceway, as aerial cable on a messenger, in cable trays, or for direct burial
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides superior mechanical protection and an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Meets cold impact at -40°

Specifications:

Design Adherence:

- UL 13 Power-Limited Circuit Cables
- UL 2250 Instrumentation Tray Cable
- UL 1569 Metal Clad Cables
- UL 1309/CSA C22.2 No. 245 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type PLTC, SUN RES, DIR BUR, -40°C, UL File # E36118
- UL Type ITC-HL, UL File # E177408
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Instrumentation, Pairs/Triads, Overall Shield

UL Type ITC-HL/PLTC, PVC, 300 V, 105°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF PAIRS	INSULATION THICKNESS		COMMUNICATION WIRE			INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT		
			mils	mm	AWG	mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m	
20 AWG 7W (0.52 mm²) OVERALL SHIELDED PAIRS																					
9225.20021221	20	2	15	0.38	22	12	0.30	40	1.02	0.35	8.9	0.58	14.7	50	1.27	0.69	17.5	0.38	174	260	
9225.20041221	20	4	15	0.38	22	12	0.30	50	1.27	0.41	10.4	0.62	15.7	50	1.27	0.73	18.5	0.42	198	294	
9225.20061221	20	6	15	0.38	22	12	0.30	50	1.27	0.45	11.4	0.67	17.0	50	1.27	0.78	19.8	0.48	250	372	
9225.20081221	20	8	15	0.38	22	12	0.30	50	1.27	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	283	420	
9225.20101221	20	10	15	0.38	22	12	0.30	50	1.27	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	330	492	
9225.20121221	20	12	15	0.38	22	12	0.30	50	1.27	0.56	14.2	0.80	20.3	50	1.27	0.91	23.1	0.66	353	525	
9225.20161221	20	16	15	0.38	22	12	0.30	60	1.52	0.66	16.8	0.89	22.6	50	1.27	1.00	25.4	0.80	432	644	
9225.20201221	20	20	15	0.38	22	12	0.30	60	1.52	0.73	18.5	0.97	24.6	50	1.27	1.08	27.4	0.93	500	744	
9225.20241221	20	24	15	0.38	22	12	0.30	60	1.52	0.79	20.1	1.06	26.9	50	1.27	1.17	29.7	1.09	556	827	
9225.20361221	20	36	15	0.38	22	12	0.30	70	1.78	0.94	23.9	1.24	31.5	50	1.27	1.35	34.3	1.45	711	1,058	
9225.20501221	20	50	15	0.38	22	12	0.30	70	1.78	1.06	26.9	1.34	34.0	50	1.27	1.45	36.8	1.67	949	1,412	

18 AWG 7W (0.82 mm²) OVERALL SHIELDED PAIRS																					
9225.18021221	18	2	15	0.38	22	12	0.30	40	1.02	0.37	9.4	0.58	14.7	50	1.27	0.69	17.5	0.38	206	307	
9225.18041221	18	4	15	0.38	22	12	0.30	50	1.27	0.44	11.2	0.67	17.0	50	1.27	0.78	19.8	0.48	249	370	
9225.18061221	18	6	15	0.38	22	12	0.30	50	1.27	0.50	12.7	0.71	18.0	50	1.27	0.82	20.8	0.54	294	437	
9225.18081221	18	8	15	0.38	22	12	0.30	50	1.27	0.55	14.0	0.80	20.3	50	1.27	0.91	23.1	0.66	337	501	
9225.18101221	18	10	15	0.38	22	12	0.30	60	1.52	0.65	16.5	0.89	22.6	50	1.27	1.00	25.4	0.80	417	621	
9225.18121221	18	12	15	0.38	22	12	0.30	60	1.52	0.68	17.3	0.93	23.6	50	1.27	1.04	26.4	0.86	449	668	
9225.18161221	18	16	15	0.38	22	12	0.30	60	1.52	0.77	19.6	1.02	25.9	50	1.27	1.13	28.7	1.02	536	797	
9225.18201221	18	20	15	0.38	22	12	0.30	60	1.52	0.83	21.1	1.06	26.9	50	1.27	1.17	29.7	1.09	623	927	
9225.18241221	18	24	15	0.38	22	12	0.30	60	1.52	0.86	21.8	1.11	28.2	50	1.27	1.22	31.0	1.18	698	1,038	
9225.18361221	18	36	15	0.38	22	12	0.30	70	1.78	0.99	25.1	1.29	32.8	50	1.27	1.40	35.6	1.56	965	1,436	
9225.18501221	18	50	15	0.38	22	12	0.30	70	1.78	1.15	29.2	1.47	37.3	50	1.27	1.58	40.1	1.99	1,280	1,905	

16 AWG 7W (1.31 mm²) OVERALL SHIELDED PAIRS																					
9225.16010001	16	1	15	0.38	-	-	-	35	0.89	0.26	6.6	0.43	10.9	50	1.27	0.54	13.7	0.23	135	201	
9225.16021221	16	2	15	0.38	22	12	0.30	40	1.02	0.36	9.1	0.58	14.7	50	1.27	0.69	17.5	0.38	239	355	
9225.16041221	16	4	15	0.38	22	12	0.30	50	1.27	0.48	12.2	0.71	18.0	50	1.27	0.82	20.8	0.54	296	440	
9225.16061221	16	6	15	0.38	22	12	0.30	50	1.27	0.57	14.5	0.80	20.3	50	1.27	0.91	23.1	0.66	366	545	
9225.16081221	16	8	15	0.38	22	12	0.30	60	1.52	0.63	16.0	0.84	21.3	50	1.27	0.95	24.1	0.72	424	631	
9225.16101221	16	10	15	0.38	22	12	0.30	60	1.52	0.69	17.5	0.93	23.6	50	1.27	1.04	26.4	0.86	522	777	
9225.16121221	16	12	15	0.38	22	12	0.30	60	1.52	0.74	18.8	0.97	24.6	50	1.27	1.08	27.4	0.93	570	849	
9225.16161221	16	16	15	0.38	22	12	0.30	60	1.52	0.85	21.6	1.11	28.2	50	1.27	1.22	31.0	1.18	687	1,023	
9225.16201221	16	20	15	0.38	22	12	0.30	70	1.78	0.96	24.4	1.24	31.5	50	1.27	1.35	34.3	1.45	849	1,263	
9225.16241221	16	24	15	0.38	22	12	0.30	70	1.78	1.04	26.4	1.34	34.0	50	1.27	1.45	36.8	1.67	956	1,422	
9225.16361221	16	36	15	0.38	22	12	0.30	70	1.78	1.20	30.5	1.51	38.4	60	1.52	1.65	41.9	2.17	1,283	1,910	
9225.16501221	16	50	15	0.38	22	12	0.30	80	2.03	1.33	33.8	1.64	41.7	60	1.52	1.78	45.2	2.52	1,786	2,658	

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF TRIADS	INSULATION THICKNESS		COMMUNICATION WIRE			INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT		
			mils	mm	AWG	mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m	
20 AWG 7W (0.52 mm²) OVERALL SHIELDED TRIADS																					
9225.20041222	20	4	15	0.38	22	12	0.30	50	1.27	0.43	10.9	0.67	17.0	50	1.27	0.78	19.8	0.48	247	367	
9225.20081222	20	8	15	0.38	22	12	0.30	50	1.27	0.52	13.2	0.75	19.1	50	1.27	0.86	21.8	0.59	336	499	
9225.20121222	20	12	15	0.38	22	12	0.30	50	1.27	0.60	15.2	0.84	21.3	50	1.27	0.95	24.1	0.72	427	636	
9225.20161222	20	16	15	0.38	22	12	0.30	60	1.52	0.70	17.8	0.93	23.6	50	1.27	1.04	26.4	0.86	528	786	
9225.20241222	20	24	15	0.38	22	12	0.30	60	1.52	0.84	21.3	1.11	28.2	50	1.27	1.22	31.0	1.18	694	1,032	
9225.20361222	20	36	15	0.38	22	12	0.30	70	1.78	1.00	25.4	1.29	32.8	50	1.27	1.40	35.6	1.56	955	1,421	

18 AWG 7W (0.82 mm²) OVERALL SHIELDED TRIADS																					
9225.18041222	18	4	15	0.38	22	12	0.30	50	1.27	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	291	433	
9225.18081222	18	8	15	0.38	22	12	0.30	50	1.27	0.59	15.0	0.80	20.3	50	1.27	0.91	23.1	0.66	409	609	
9225.18121222	18	12	15	0.38	22	12	0.30	60	1.52	0.72	18.3	0.97	24.6	50	1.27	1.08	27.4	0.93	554	824	
9225.18161222	18	16	15	0.38	22	12	0.30	60	1.52	0.82	20.8	1.06	26.9	50	1.27	1.17	29.7	1.09	671	999	
9225.18241222	18	24	15	0.38	22	12	0.30	70	1.78	0.97	24.6	1.24	31.5	50	1.27	1.35	34.3	1.45	936	1,393	
9225.18361222	18	36	15	0.38	22	12	0.30	70	1.78	1.06	26.9	1.34	34.0	50	1.27	1.45	36.8	1.67	1,256	1,869	

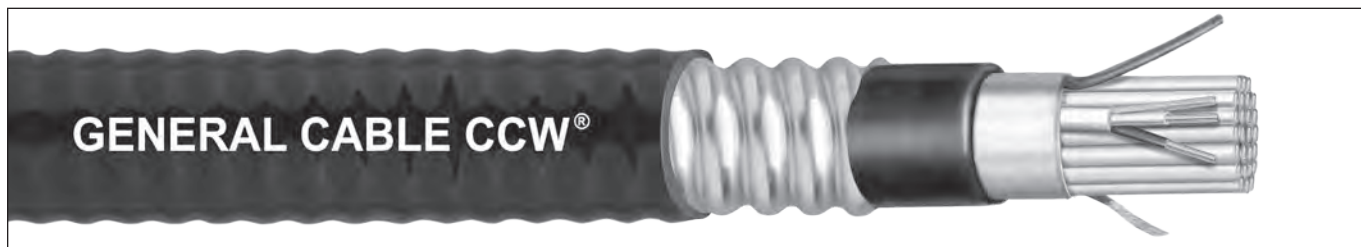
16 AWG 7W (1.31 mm²) OVERALL SHIELDED TRIADS																					
9225.16010002	16	1	15	0.38	-	-	-	35	0.89	0.28	7.1	0.43	10.9	50	1.27	0.54	13.7	0.23	160	238	
9225.16041222	16	4	15	0.38	22	12	0.30	50	1.27	0.51	13.0	0.75	19.1	50	1.27	0.86	21.8	0.58	353	525	
9225.16081222	16	8	15	0.38	22	12	0.30	60	1.52	0.67	17.0	0.89	22.6	50	1.27	1.00	25.4	0.80	540	803	
9225.16121222	16	12	15	0.38	22	12	0.30	60	1.52	0.79	20.1	1.06	26.9	50	1.27	1.17	29.7	1.09	727	1,082	
9225.16161222	16	16	15	0.38	22	12	0.30	70	1.78	0.92	23.4	1.19	30.2	50	1.27	1.30	33.0	1.34	922	1,372	
9225.16241222	16	24	15	0.38	22	12	0.30	70	1.78	1.11	28.2	1.42	36.1	50	1.27	1.53	38.9	1.86	1,254	1,866	
9225.16361222	16	36	15	0.38	22	12	0.30	80	2.03	1.31	33.3	1.60	40.6	60	1.52	1.73	43.9	2.38	1,792	2,667	

Dimensions and weights are nominal; subject to industry tolerances.
¹ Cross-sectional area for cable tray fill is in accordance with NEC[®] Section 392.22.



CCW[®] Armored Instrumentation, Pairs/Triads, Individual and Overall Shield

UL Type ITC-HL/PLTC, PVC, 300 V, 105°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC), rated 105°C per UL Standards 13 and 2250
- Color-coded per ICEA Method 1: pairs – black and white; triads – black, white and red. Each conductor in each pair or triad is printed alphanumerically for easy identification

Shielded Pairs/Triads:

- Isolated and individually twisted pairs or triads with a Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, two sizes smaller than insulated conductors

Cable Assembly:

- Individually shielded pairs or triads and communication wire are cabled together with a left hand lay
- Communication wire: 22 AWG solid bare copper, flame-retardant Polyvinyl Chloride (PVC), rated 105°C, orange

Overall Shield:

- Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, same size as insulated conductors

Inner Jacket:

- Flame-retardant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Nylon rip cord to facilitate jacket removal

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Instrumentation cables with individually shielded pairs or triads and an overall shield provide superior protection and reliability against physical damage for use in instrumentation and process control applications requiring ITC-HL or PLTC wiring methods where shielding against both external EMI and EMI between groups is required
- For use as Power Limited Tray Cable on circuits rated 150 V or less and 5 amps or less in Class 2 or Class 3 circuits in accordance with NEC Article 725
- For use as Instrumentation Tray Cable on circuits rated 150 V or less and 5 amps or less in accordance with NEC Article 727
- Recognized for use in Class I, II, and III, Divisions 1 and 2; or Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503, and 505

Applications: (cont'd)

- Installed indoors or outdoors, in wet or dry locations, in a raceway, as aerial cable on a messenger, in cable trays, or for direct burial
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides superior mechanical protection and an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Meets cold impact at -40°C

Specifications:

Design Adherence:

- UL 13 Power-Limited Circuit Cables
- UL 2250 Instrumentation Tray Cable
- UL 1569 Metal Clad Cables
- UL 1309/CSA C22.2 No. 245 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type PLTC, SUN RES, DIR BUR, -40°C, UL File # E36118
- UL Type ITC-HL, UL File # E177408
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Instrumentation, Pairs/Triads, Individual and Overall Shield

UL Type ITC-HL/PLTC, PVC, 300 V, 105°C, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF PAIRS	INSULATION THICKNESS		COMMUNICATION WIRE SIZE		INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT		
			mils	mm	AWG	mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES		mm	LBS/1000 FT	kg/1000 m
20 AWG 7W (0.52 mm²) INDIVIDUAL AND OVERALL SHIELDED PAIRS																				
9250.20021221	20	2	15	0.38	22	12	0.30	40	1.02	0.36	9.1	0.58	14.7	50	1.27	0.69	17.5	0.38	202	301
9250.20041221	20	4	15	0.38	22	12	0.30	50	1.27	0.43	10.9	0.62	15.7	50	1.27	0.73	18.5	0.42	239	355
9250.20061221	20	6	15	0.38	22	12	0.30	50	1.27	0.48	12.2	0.71	18.0	50	1.27	0.82	20.8	0.54	292	434
9250.20081221	20	8	15	0.38	22	12	0.30	50	1.27	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	323	481
9250.20101221	20	10	15	0.38	22	12	0.30	50	1.27	0.57	14.5	0.80	20.3	50	1.27	0.91	23.1	0.66	401	597
9250.20121221	20	12	15	0.38	22	12	0.30	60	1.52	0.63	16.0	0.84	21.3	50	1.27	0.95	24.1	0.72	439	653
9250.20161221	20	16	15	0.38	22	12	0.30	60	1.52	0.72	18.3	0.97	24.6	50	1.27	1.08	27.4	0.93	511	760
9250.20201221	20	20	15	0.38	22	12	0.30	60	1.52	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	593	882
9250.20241221	20	24	15	0.38	22	12	0.30	70	1.78	0.90	22.9	1.15	29.2	50	1.27	1.26	32.0	1.26	718	1,069
9250.20361221	20	36	15	0.38	22	12	0.30	70	1.78	1.04	26.4	1.34	34.0	50	1.27	1.45	36.8	1.67	925	1,377
9250.20501221	20	50	15	0.38	22	12	0.30	70	1.78	1.19	30.2	1.51	38.4	60	1.52	1.65	41.9	2.17	1,255	1,867

18 AWG 7W (0.82 mm²) INDIVIDUAL AND OVERALL SHIELDED PAIRS																				
9250.18021221	18	2	15	0.38	22	12	0.30	40	1.02	0.38	9.7	0.58	14.7	50	1.27	0.69	17.5	0.38	216	322
9250.18041221	18	4	15	0.38	22	12	0.30	50	1.27	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	278	414
9250.18061221	18	6	15	0.38	22	12	0.30	50	1.27	0.55	14.0	0.75	19.1	50	1.27	0.86	21.8	0.59	345	513
9250.18081221	18	8	15	0.38	22	12	0.30	50	1.27	0.60	15.2	0.80	20.3	50	1.27	0.92	23.4	0.67	397	590
9250.18101221	18	10	15	0.38	22	12	0.30	60	1.52	0.67	17.0	0.89	22.6	50	1.27	1.00	25.4	0.80	489	727
9250.18121221	18	12	15	0.38	22	12	0.30	60	1.52	0.71	18.0	0.93	23.6	50	1.27	1.04	26.4	0.86	540	803
9250.18161221	18	16	15	0.38	22	12	0.30	60	1.52	0.79	20.1	1.06	26.9	50	1.27	1.17	29.7	1.09	645	959
9250.18201221	18	20	15	0.38	22	12	0.30	60	1.52	0.88	22.4	1.15	29.2	50	1.27	1.26	32.0	1.26	794	1,181
9250.18241221	18	24	15	0.38	22	12	0.30	70	1.78	0.98	24.9	1.24	31.5	50	1.27	1.35	34.3	1.45	907	1,349
9250.18361221	18	36	15	0.38	22	12	0.30	70	1.78	1.15	29.2	1.47	37.3	50	1.27	1.58	40.1	1.99	1,227	1,826
9250.18501221	18	50	15	0.38	22	12	0.30	80	2.03	1.36	34.5	1.69	42.9	60	1.52	1.82	46.2	2.64	1,662	2,473

16 AWG 7W (1.31 mm²) INDIVIDUAL AND OVERALL SHIELDED PAIRS																				
9250.16021221	16	2	15	0.38	22	12	0.30	50	1.27	0.44	11.2	0.67	17.0	50	1.27	0.78	19.8	0.48	260	387
9250.16041221	16	4	15	0.38	22	12	0.30	50	1.27	0.52	13.2	0.71	18.0	50	1.27	0.82	20.8	0.54	334	496
9250.16061221	16	6	15	0.38	22	12	0.30	50	1.27	0.59	15.0	0.84	21.3	50	1.27	0.95	24.1	0.72	443	659
9250.16081221	16	8	15	0.38	22	12	0.30	60	1.52	0.69	17.5	0.93	23.6	50	1.27	1.04	26.4	0.86	515	767
9250.16101221	16	10	15	0.38	22	12	0.30	60	1.52	0.75	19.1	1.02	25.9	50	1.27	1.13	28.7	1.02	616	917
9250.16121221	16	12	15	0.38	22	12	0.30	60	1.52	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	684	1,019
9250.16161221	16	16	15	0.38	22	12	0.30	70	1.78	0.95	24.1	1.24	31.5	50	1.27	1.35	34.3	1.45	872	1,298
9250.16201221	16	20	15	0.38	22	12	0.30	70	1.78	1.03	26.2	1.34	34.0	50	1.27	1.45	36.8	1.67	1,024	1,524
9250.16241221	16	24	15	0.38	22	12	0.30	70	1.78	1.10	27.9	1.37	34.8	50	1.27	1.48	37.6	1.74	1,270	1,890
9250.16361221	16	36	15	0.38	22	12	0.30	80	2.03	1.29	32.8	1.60	40.6	60	1.52	1.73	43.9	2.38	1,712	2,547
9250.16501221	16	50	15	0.38	22	12	0.30	80	2.03	1.53	38.9	1.87	47.5	60	1.52	2.00	50.8	3.18	2,215	3,297

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF TRIADS	INSULATION THICKNESS		COMMUNICATION WIRE SIZE		INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT		
			mils	mm	AWG	mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES		mm	LBS/1000 FT	kg/1000 m
20 AWG 7W (0.52 mm²) INDIVIDUAL AND OVERALL SHIELDED TRIADS																				
9250.20041222	20	4	15	0.38	22	12	0.30	50	1.27	0.45	11.4	0.67	17.0	50	1.27	0.78	19.8	0.48	263	392
9250.20081222	20	8	15	0.38	22	12	0.30	50	1.27	0.56	14.2	0.80	20.3	50	1.27	0.91	23.1	0.66	376	560
9250.20121222	20	12	15	0.38	22	12	0.30	60	1.52	0.67	17.0	0.89	22.6	50	1.27	1.00	25.4	0.80	514	765
9250.20161222	20	16	15	0.38	22	12	0.30	60	1.52	0.77	19.6	1.02	25.9	50	1.27	1.13	28.7	1.02	616	917
9250.20241222	20	24	15	0.38	22	12	0.30	70	1.78	0.96	24.4	1.24	31.5	50	1.27	1.35	34.3	1.45	869	1,293
9250.20361222	20	36	15	0.38	22	12	0.30	70	1.78	1.11	28.2	1.42	36.1	50	1.27	1.53	38.9	1.86	1,139	1,696

18 AWG 7W (0.82 mm²) INDIVIDUAL AND OVERALL SHIELDED TRIADS																				
9250.18041222	18	4	15	0.38	22	12	0.30	50	1.27	0.54	13.7	0.75	19.1	50	1.27	0.86	21.8	0.59	320	477
9250.18081222	18	8	15	0.38	22	12	0.30	60	1.52	0.69	17.5	0.93	23.6	50	1.27	1.04	26.4	0.86	485	721
9250.18121222	18	12	15	0.38	22	12	0.30	60	1.52	0.79	20.1	1.06	26.9	50	1.27	1.17	29.7	1.09	645	959
9250.18161222	18	16	15	0.38	22	12	0.30	70	1.78	0.90	22.9	1.15	29.2	50	1.27	1.26	32.0	1.26	797	1,185
9250.18241222	18	24	15	0.38	22	12	0.30	70	1.78	1.06	26.9	1.34	34.0	50	1.27	1.45	36.8	1.67	1,119	1,665
9250.18361222	18	36	15	0.38	22	12	0.30	80	2.03	1.29	32.8	1.60	40.6	60	1.52	1.73	43.9	2.38	1,570	2,336

16 AWG 7W (1.31 mm²) INDIVIDUAL AND OVERALL SHIELDED TRIADS																				
9250.16041222	16	4	15	0.38	22	12	0.30	50	1.27	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.58	392	583
9250.16081222	16	8	15	0.38	22	12	0.30	60	1.52	0.79	20.1	1.02	25.9	50	1.27	1.13	28.7	1.02	621	924
9250.16121222	16	12	15	0.38	22	12	0.30	70	1.78	0.95	24.1	1.19	30.2	50	1.27	1.30	33.0	1.34	879	1,308
9250.16161222	16	16	15	0.38	22	12	0.30	70	1.78	1.04	26.4	1.34	34.0	50	1.27	1.45	36.8	1.67	1,074	1,598
9250.16241222	16	24	15	0.38	22	12	0.30	80	2.03	1.27	32.3	1.60	40.6	60	1.52	1.73	43.9	2.38	1,605	2,389
9250.16361222	16	36	15	0.38	22	12	0.30	80	2.03	1.49	37.8	1.83	46.5	60	1.52	1.96	49.8	3.06	2,161	3,216

Dimensions and weights are nominal; subject to industry tolerances.
¹ Cross-sectional area for cable tray fill is in accordance with NEC[®] Section 392.22.



CCW® Armored Instrumentation, Pairs/Triads, Overall Shield

UL Type MC-HL, PVC/Nylon, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) insulation and nylon covering, rated 90°C per UL Standard 83
- Color-coded per ICEA Method 1: pairs – black and white; triads – black, white and red. Each conductor in each pair or triad is printed alphanumerically for easy identification

Cable Assembly:

- Individual pairs or triads are cabled together with a left-hand lay

Overall Shield:

- Flexfoil® aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, same size as insulated conductors

Inner Jacket:

- Flame-retardant Polyvinyl Chloride (PVC) per UL Standard 1569, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Nylon rip cord to facilitate jacket removal

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL Standards 1569 and 2225
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL Standard 1569, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored 600 volt Instrumentation cables with an overall shield provide superior protection and reliability against physical damage for use in instrumentation and process control applications where shielding against external EMI is required
- For use in Class 1 remote-control and signal circuits in accordance with NEC Article 725
- Recognized for use in Class I, II and III, Divisions 1 and 2; or Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed indoors or outdoors, in wet or dry locations, in a raceway, as aerial cable on a messenger, in cable trays, or for direct burial
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides superior mechanical protection and an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Meets cold impact at -40°C

Specifications:

Design Adherence:

- UL 83 Thermoplastic Insulated Wire and Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309/GSA C22.2 No. 245 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type MC-HL, CT USE, SUN RES, DIR BUR, -40°C, UL File # E69797
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Instrumentation, Pairs/Triads, Overall Shield

UL Type MC-HL, PVC/Nylon, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF PAIRS	INSULATION THICKNESS		INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT	
			mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m

18 AWG 7W (0.82 mm²) OVERALL SHIELDED PAIRS

9325.18020001	18	2	19	0.48	40	1.02	0.41	10.4	0.59	15.0	50	1.27	0.70	17.8	0.39	222	330
9325.18040001	18	4	19	0.48	40	1.02	0.48	12.2	0.65	16.5	50	1.27	0.75	19.1	0.45	268	399
9325.18080001	18	8	19	0.48	50	1.27	0.60	15.2	0.82	20.8	50	1.27	0.92	23.4	0.67	420	625
9325.18120001	18	12	19	0.48	50	1.27	0.78	19.8	1.00	25.4	50	1.27	1.10	27.9	0.96	560	833
9325.18160001	18	16	19	0.48	50	1.27	0.81	20.6	1.12	28.4	50	1.27	1.23	31.2	1.20	706	1,051
9325.18240001	18	24	19	0.48	50	1.27	1.08	27.4	1.39	35.3	50	1.27	1.49	37.8	1.77	969	1,442

16 AWG 7W (1.31 mm²) OVERALL SHIELDED PAIRS

9325.16010001	16	1	19	0.48	60	1.52	0.35	8.9	0.53	13.5	50	1.27	0.64	16.3	0.33	185	275
9325.16020001	16	2	19	0.48	40	1.02	0.38	9.7	0.58	14.7	50	1.27	0.69	17.5	0.38	246	366
9325.16040001	16	4	19	0.48	40	1.02	0.47	11.9	0.71	18.0	50	1.27	0.82	20.8	0.54	333	495
9325.16060001	16	6	19	0.48	50	1.27	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	405	603
9325.16080001	16	8	19	0.48	50	1.27	0.66	16.8	0.89	22.6	50	1.27	1.00	25.4	0.80	466	694
9325.16100001	16	10	19	0.48	50	1.27	0.76	19.3	1.02	25.9	50	1.27	1.13	28.7	1.02	556	827
9325.16120001	16	12	19	0.48	50	1.27	0.80	20.3	1.06	26.9	50	1.27	1.17	29.7	1.09	604	899
9325.16160001	16	16	19	0.48	50	1.27	0.87	22.1	1.15	29.2	50	1.27	1.26	32.0	1.26	799	1,189
9325.16200001	16	20	19	0.48	50	1.27	0.98	24.9	1.29	32.8	50	1.27	1.40	35.6	1.56	929	1,383
9325.16240001	16	24	19	0.48	50	1.27	1.08	27.4	1.37	34.8	50	1.27	1.48	37.6	1.74	1,040	1,548
9325.16360001	16	36	19	0.48	50	1.27	1.32	33.5	1.64	41.7	60	1.52	1.78	45.2	2.52	1,445	2,151
9325.16500001	16	50	19	0.48	50	1.27	1.48	37.6	1.83	46.5	60	1.52	1.96	49.8	3.06	1,897	2,823

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF TRIADS	INSULATION THICKNESS		INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		OVERALL JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT	
			mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m

16 AWG 7W (1.31 mm²) OVERALL SHIELDED TRIADS

9325.16010002	16	1	19	0.48	50	1.27	0.35	8.9	0.53	13.5	50	1.27	0.64	16.3	0.33	195	290
9325.16040002	16	4	19	0.48	40	1.02	0.51	13.0	0.71	18.0	50	1.27	0.82	20.8	0.54	407	606
9325.16080002	16	8	19	0.48	50	1.27	0.71	18.0	0.93	23.6	50	1.27	1.04	26.4	0.86	617	918
9325.16120002	16	12	19	0.48	50	1.27	0.85	21.6	1.11	28.2	50	1.27	1.22	31.0	1.18	897	1,334
9325.16160002	16	16	19	0.48	50	1.27	0.93	23.6	1.19	30.2	50	1.27	1.30	33.0	1.34	1,161	1,727
9325.16240002	16	24	19	0.48	50	1.27	1.16	29.5	1.47	37.3	50	1.27	1.58	40.1	1.99	1,581	2,353
9325.16360002	16	36	19	0.48	50	1.27	1.42	36.1	1.74	44.2	60	1.52	1.87	47.5	2.78	2,142	3,188

Dimensions and weights are nominal; subject to industry tolerances.

¹ Cross-sectional area for cable tray fill is in accordance with NEC[®] Section 392.22.



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CCW[®] Armored Instrumentation, Pairs/Triads, Individual and Overall Shield

UL Type MC-HL, PVC/Nylon, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) insulation and nylon covering, rated 90°C per UL Standard 83
- Color-coded per ICEA Method 1: pairs – black and white; triads – black, white and red. Each conductor in each pair or triad is printed alphanumerically for easy identification

Shielded Pairs/Triads:

- Isolated and individually twisted pairs or triads with a Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, two sizes smaller than insulated conductors

Cable Assembly:

- Individually shielded pairs or triads are cabled together with a left-hand lay

Overall Shield:

- Flexfoil[®] aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, same size as insulated conductors

Inner Jacket:

- Flame-retardant Polyvinyl Chloride (PVC) per UL Standard 1569, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Nylon rip cord to facilitate jacket removal

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL Standards 1569 and 2225
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL Standard 1569, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored 600 volt Instrumentation cables with individually shielded pairs or triads and an overall shield provide superior protection and reliability against physical damage for use in instrumentation and process control applications where shielding against both external EMI and EMI between groups is required
- For use in Class 1 remote-control and signal circuits in accordance with NEC Article 725
- Recognized for use in Class I, II and III, Divisions 1 and 2; or Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed indoors or outdoors, in wet or dry locations, in a raceway, as aerial cable on a messenger, in cable trays, or for direct burial
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides superior mechanical protection and an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Meets cold impact at -40°C

Specifications:

Design Adherence:

- UL 83 Thermoplastic Insulated Wire and Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309/GSA C22.2 No. 245 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type MC-HL, CT USE, SUN RES, DIR BUR, -40°C, UL File # E69797
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Instrumentation, Pairs/Triads, Individual and Overall Shield

UL Type MC-HL, PVC/Nylon, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF PAIRS	INSULATION THICKNESS		INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		OVERALL JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT	
			mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m

18 AWG 7W (0.82 mm²) INDIVIDUAL AND OVERALL SHIELDED PAIRS

9350.18020001	18	2	19	0.48	40	1.02	0.41	10.4	0.59	15.0	50	1.27	0.70	17.8	0.39	225	335
9350.18040001	18	4	19	0.48	40	1.02	0.48	12.2	0.65	16.5	50	1.27	0.75	19.1	0.45	300	446
9350.18080001	18	8	19	0.48	50	1.27	0.60	15.2	0.82	20.8	50	1.27	0.92	23.4	0.67	450	670
9350.18120001	18	12	19	0.48	50	1.27	0.78	19.8	1.00	25.4	50	1.27	1.10	27.9	0.96	580	863
9350.18160001	18	16	19	0.48	50	1.27	0.81	20.6	1.12	28.4	50	1.27	1.23	31.2	1.20	760	1,131
9350.18240001	18	24	19	0.48	50	1.27	1.08	27.4	1.39	35.3	50	1.27	1.49	37.8	1.77	1,050	1,563

16 AWG 7W (1.31 mm²) INDIVIDUAL AND OVERALL SHIELDED PAIRS

9350.16020001	16	2	19	0.48	40	1.02	0.45	11.4	0.67	17.0	50	1.27	0.78	19.8	0.48	239	355
9350.16040001	16	4	19	0.48	50	1.27	0.56	14.2	0.80	20.3	50	1.27	0.91	23.1	0.66	342	509
9350.16060001	16	6	19	0.48	50	1.27	0.66	16.8	0.89	22.6	50	1.27	1.00	25.4	0.80	429	639
9350.16080001	16	8	19	0.48	50	1.27	0.70	17.8	0.93	23.6	50	1.27	1.04	26.4	0.86	502	747
9350.16100001	16	10	19	0.48	50	1.27	0.79	20.1	1.06	26.9	50	1.27	1.17	29.7	1.09	613	912
9350.16120001	16	12	19	0.48	50	1.27	0.85	21.6	1.11	28.2	50	1.27	1.22	31.0	1.18	687	1,023
9350.16160001	16	16	19	0.48	50	1.27	0.98	24.9	1.29	32.8	50	1.27	1.40	35.6	1.56	859	1,278
9350.16200001	16	20	19	0.48	50	1.27	1.06	26.9	1.34	34.0	50	1.27	1.45	36.8	1.67	997	1,483
9350.16240001	16	24	19	0.48	50	1.27	1.12	28.4	1.42	36.1	50	1.27	1.53	38.9	1.86	1,140	1,697
9350.16360001	16	36	19	0.48	50	1.27	1.37	34.8	1.69	42.9	60	1.52	1.82	46.2	2.64	1,618	2,407
9350.16500001	16	50	19	0.48	50	1.27	1.57	39.9	1.92	48.8	60	1.52	2.05	52.1	3.34	2,166	3,224

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF TRIADS	INSULATION THICKNESS		INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		OVERALL JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT	
			mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m

16 AWG 7W (1.31 mm²) INDIVIDUAL AND OVERALL SHIELDED TRIADS

9350.16040002	16	4	19	0.48	50	1.27	0.61	15.5	0.84	21.3	50	1.27	0.95	24.1	0.72	403	600
9350.16080002	16	8	19	0.48	50	1.27	0.82	20.8	1.06	26.9	50	1.27	1.17	29.7	1.09	650	967
9350.16120002	16	12	19	0.48	50	1.27	0.98	24.9	1.24	31.5	50	1.27	1.35	34.3	1.45	853	1,269
9350.16160002	16	16	19	0.48	50	1.27	1.10	27.9	1.37	34.8	50	1.27	1.48	37.6	1.74	1,079	1,606
9350.16240002	16	24	19	0.48	50	1.27	1.33	33.8	1.64	41.7	60	1.52	1.78	45.2	2.52	1,515	2,254
9350.16360002	16	36	19	0.48	50	1.27	1.58	40.1	1.96	49.8	60	1.52	2.09	53.1	3.48	2,184	3,250

Dimensions and weights are nominal; subject to industry tolerances.
¹ Cross-sectional area for cable tray fill is in accordance with NEC[®] Section 392.22.



CCW[®] Armored Control With Grounding Conductor

UL Type MC-HL, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Compressed Class B stranding per ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE) insulation per ICEA S-73-532 and UL 44, Listed XHHW-2
- Color-coded per ICEA Method 1, Table E2, full-colored insulation with stripes
- Color-coded per CSA C22.2 No. 123 where applicable

Grounding Conductor:

- Class B stranded bare annealed copper per ASTM B3 and B8
- Cross-linked Polyethylene (XLPE) insulation, green
- Sized in accordance with NEC Table 250.122

Cable Assembly:

- Insulated conductors and grounding wire are cabled together with non-hygroscopic fillers when required
- A binder tape, when required, is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569 and UL 2225
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Meets CSA Low Acid Gas requirements

Applications:

- CCW armored Control cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- For use as services, feeders and branch circuits for power, lighting, control, and signal circuits in accordance with NEC Articles 330 and 725
- Installed indoors or outdoors, wet or dry locations, directly buried, embedded in concrete, in a raceway, as aerial cable on a messenger, in cable trays, or as exposed runs secured to supports in accordance with NEC Article 330
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Factory assembled and tested cable for use as an alternative to cable in conduit wiring systems
- Meets cold impact at -40°C
- 90°C continuous operating temperature, wet or dry
- 130°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-73-532/WC57 Standard for Control, Thermocouple Extension and Instrumentation Cables
- UL 44 Rubber Insulated Wires and Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable
- CSA C22.2 No. 123 Metal Sheathed Cables
- CSA C22.2 No. 174 Cables and Cable Glands for Use in Hazardous Locations

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type MC-HL, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, UL File # E69797
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- CSA Certified Type RA90, XLPE, HL, SR, FT4, and -40°C, CSA File # 7319

¹ Standard cables are also marked CSA Type RA90, except four (4) conductor cables which require a different color code, which may be special-ordered.

CCW[®] Armored Control With Grounding Conductor

UL Type MC-HL, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF COND.	GREEN INSULATED GROUND (AWG)	INSULATION THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT		90°C AMPACITY @ 30°C AMBIENT ²
				mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m	

14 AWG 7W (2.08 mm²) MULTI-CONDUCTOR CONTROL CABLE WITH GREEN INSULATED GROUNDING CONDUCTOR

9500.01402114	14	2	14	30	0.76	0.30	7.6	0.49	12.4	50	1.27	0.60	15.2	0.29	163	243	15
9500.01403114	14	3	14	30	0.76	0.33	8.4	0.53	13.5	50	1.27	0.64	16.3	0.33	192	286	15
9500.01404114	14	4	14	30	0.76	0.37	9.4	0.58	14.7	50	1.27	0.69	17.5	0.38	222	330	15
9500.01405114	14	5	14	30	0.76	0.39	9.9	0.60	15.2	50	1.27	0.71	18.0	0.40	245	365	15
9500.01406114	14	6	14	30	0.76	0.41	10.4	0.62	15.7	50	1.27	0.73	18.5	0.42	267	397	15
9500.01408114	14	8	14	30	0.76	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	321	478	15
9500.01411114	14	11	14	30	0.76	0.57	14.5	0.80	20.3	50	1.27	0.91	23.1	0.66	395	588	12
9500.01418114	14	18	14	30	0.76	0.69	17.5	0.93	23.6	50	1.27	1.04	26.4	0.86	554	824	12
9500.01436114	14	36	14	30	0.76	0.97	24.6	1.24	31.5	50	1.27	1.35	34.3	1.45	948	1,411	10

12 AWG 7W (3.31 mm²) MULTI-CONDUCTOR CONTROL CABLE WITH GREEN INSULATED GROUNDING CONDUCTOR

9500.01202112	12	2	12	30	0.76	0.34	8.6	0.53	13.5	50	1.27	0.64	16.3	0.33	200	298	20
9500.01203112	12	3	12	30	0.76	0.37	9.4	0.58	14.7	50	1.27	0.69	17.5	0.38	239	356	20
9500.01204112	12	4	12	30	0.76	0.45	11.4	0.67	17.0	50	1.27	0.78	19.8	0.48	310	461	20
9500.01205112	12	5	12	30	0.76	0.46	11.7	0.67	17.0	50	1.27	0.78	19.8	0.48	324	482	20
9500.01206112	12	6	12	30	0.76	0.47	11.9	0.67	17.0	50	1.27	0.78	19.8	0.48	338	503	20
9500.01208112	12	8	12	30	0.76	0.56	14.2	0.80	20.3	50	1.27	0.91	23.1	0.66	426	634	20
9500.01211112	12	11	12	30	0.76	0.65	16.5	0.89	22.6	50	1.27	1.00	25.4	0.80	519	772	15
9500.01218112	12	18	12	30	0.76	0.78	19.8	1.02	25.9	50	1.27	1.13	28.7	1.02	739	1,100	15
9500.01236112	12	36	12	30	0.76	1.10	27.9	1.37	34.8	50	1.27	1.48	37.6	1.74	1,302	1,938	12

10 AWG 7W (5.26 mm²) MULTI-CONDUCTOR CONTROL CABLE WITH GREEN INSULATED GROUNDING CONDUCTOR

9500.01002110	10	2	10	30	0.76	0.39	9.9	0.58	14.7	50	1.27	0.69	17.5	0.38	253	377	30
9500.01003110	10	3	10	30	0.76	0.41	10.4	0.62	15.7	50	1.27	0.73	18.5	0.42	303	451	30
9500.01004110	10	4	10	30	0.76	0.45	11.4	0.67	17.0	50	1.27	0.78	19.8	0.48	348	518	30
9500.01006110	10	6	10	30	0.76	0.54	13.7	0.75	19.1	50	1.27	0.86	21.8	0.59	451	671	28
9500.01008110	10	8	10	30	0.76	0.65	16.5	0.89	22.6	50	1.27	1.00	25.4	0.80	568	845	28
9500.01011110	10	11	10	30	0.76	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	704	1,048	20

Dimensions and weights are nominal; subject to industry tolerances.

¹ Cross-sectional area for cable tray fill is in accordance with NEC Section 392.22.

² Ampacities in accordance with NEC Article 310 and Table 310.15(B)(16).

Note: Standard cables with up to and including six (6) conductors are also marked CSA Type RA90. All others are special order.



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CCW[®] Armored Control With Bare Grounding Conductor

UL Type MC-HL, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Compressed Class B stranding per ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE) insulation per ICEA S-73-532 and UL 44, Listed XHHW-2
- Color-coded per ICEA Method 1, Table E2, full-colored insulation with stripes
- Color-coded per CSA C22.2 No. 123 where applicable

Grounding Conductor:

- Class B stranded bare annealed copper per ASTM B3 and B8
- Sized in accordance with NEC Table 250.122

Cable Assembly:

- Insulated conductors and grounding wire are cabled together with non-hygroscopic fillers when required
- A binder tape, when required, is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569 and UL 2225
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Meets CSA Low Acid Gas requirements

Applications:

- CCW armored Control cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- For use as services, feeders and branch circuits for power, lighting, control, and signal circuits in accordance with NEC Articles 330 and 725
- Installed indoors or outdoors, wet or dry locations, directly buried, embedded in concrete, in a raceway, as aerial cable on a messenger, in cable trays, or as exposed runs secured to supports in accordance with NEC Article 330
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Factory assembled and tested cable for use as an alternative to cable in conduit wiring systems
- Meets cold impact at -40°C
- 90°C continuous operating temperature, wet or dry
- 130°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-73-532/WC57 Standard for Control, Thermocouple Extension and Instrumentation Cables
- UL 44 Rubber Insulated Wires and Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable
- CSA C22.2 No. 123 Metal Sheathed Cables

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type MC-HL, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, UL File # E69797
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- CSA Certified¹ Type RA90, XLPE, SR, FT4, and -40°C, CSA File # 7319

¹ Standard cables are also marked CSA Type RA90, except four (4) conductor cables which require a different color code, which may be special-ordered.

CCW[®] Armored Control With Bare Grounding Conductor

UL Type MC-HL, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF COND.	BARE INSULATED GROUND (AWG)	INSULATION THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹	APPROXIMATE NET WEIGHT		90°C AMPACITY @ 30°C AMBIENT ²
				mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		SQ. IN.	LBS/1000 FT	

14 AWG 7W (2.08 mm²) MULTI-CONDUCTOR CONTROL CABLE WITH BARE GROUNDING CONDUCTOR

9510.01404114	14	4	14	30	0.76	0.35	8.8	0.52	13.3	50	1.27	0.63	16.0	0.62	203	302	20
9510.01405114	14	5	14	30	0.76	0.38	9.7	0.53	13.5	50	1.27	0.63	16.0	0.62	224	333	20
9510.01407114	14	7	14	30	0.76	0.43	10.9	0.60	15.2	50	1.27	0.71	18.0	0.79	287	427	17.5
9510.01409114	14	9	14	30	0.76	0.51	13.0	0.75	19.1	50	1.27	0.86	21.8	1.16	368	548	17.5
9510.01412114	14	12	14	30	0.76	0.56	14.2	0.79	20.1	50	1.27	0.89	22.6	1.24	425	632	12.5
9510.01419114	14	19	14	30	0.76	0.67	17.0	0.92	23.4	50	1.27	1.02	25.9	1.63	594	884	12.5
9510.01437114	14	37	14	30	0.76	0.94	23.9	1.22	31.0	50	1.27	1.32	33.5	2.74	1,030	1,533	10

12 AWG 7W (3.31 mm²) MULTI-CONDUCTOR CONTROL CABLE WITH BARE GROUNDING CONDUCTOR

9510.01204112	12	4	12	30	0.76	0.38	9.7	0.55	14.0	50	1.27	0.65	16.5	0.66	246	366	24
9510.01205112	12	5	12	30	0.76	0.43	10.9	0.61	15.5	50	1.27	0.71	18.0	0.79	302	449	24
9510.01207112	12	7	12	30	0.76	0.49	12.4	0.64	16.3	50	1.27	0.74	18.8	0.86	362	539	21
9510.01209112	12	9	12	30	0.76	0.58	14.7	0.79	20.1	50	1.27	0.90	22.9	1.21	458	682	21
9510.01212112	12	12	12	30	0.76	0.64	16.3	0.83	21.1	50	1.27	0.94	23.9	1.39	545	811	15

10 AWG 7W (5.26 mm²) MULTI-CONDUCTOR CONTROL CABLE WITH BARE GROUNDING CONDUCTOR

9510.01004110	10	4	10	30	0.76	0.46	11.7	0.63	16.0	50	1.27	0.73	18.5	0.84	343	510	32
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Dimensions and weights are nominal; subject to industry tolerances.

¹ Cross-sectional area for cable tray fill is in accordance with NEC Section 392.22.

² Ampacities in accordance with NEC Article 310 and Table 310.15(B)(16).



CCW[®] Armored Control Without Grounding Conductor

UL Type MC, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Cross-linked Polyethylene (XLPE) insulation per ICEA S-73-532 and UL 44, Listed XHHW-2
- Color-coded per ICEA Method 1, Table E2, full-colored insulation with stripes
- Color-coded per CSA C22.2 No. 123 where applicable

Cable Assembly:

- Insulated conductors are cabled together with non-hygroscopic fillers when required
- A binder tape, when required, is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Meets CSA Low Acid Gas requirements

Applications:

- CCW armored Control cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use in Class I and II, Division 2; Class III, Divisions 1 and 2; and Class I, Zone 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- For use as services, feeders and branch circuits for power, lighting, control, and signal circuits in accordance with NEC Articles 330 and 725
- Installed indoors or outdoors, wet or dry locations, directly buried, embedded in concrete, in a raceway, as aerial cable on a messenger, in cable trays, or as exposed runs secured to supports in accordance with NEC Article 330
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Factory assembled and tested cable for use as an alternative to cable in conduit wiring systems
- Meets cold impact at -40°C

Features: (cont'd)

- 90°C continuous operating temperature, wet or dry
- 130°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-73-532/WC57 Standard for Control, Thermocouple Extension and Instrumentation Cables
- UL 44 Rubber Insulated Wires and Cables
- UL 1569 Metal Clad Cables
- UL 1309 Marine Shipboard Cable
- CSA C22.2 No. 123 Metal Sheathed Cables

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type MC, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, UL File # E69797
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- CSA Certified¹ Type RA90, XLPE, SR, FT4, and -40°C, CSA File # 7319

¹ Standard cables are also marked CSA Type RA90, except four (4) conductor cables which require a different color code, which may be special-ordered.

CCW[®] Armored Control Without Grounding Conductor

UL Type MC, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG)	NO. OF COND.	INSULATION THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹	APPROXIMATE NET WEIGHT		90°C AMPACITY @ 30°C AMBIENT ²
			mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		SQ. IN.	LBS/1000 FT	

14 AWG 7W (2.08 mm²) MULTI-CONDUCTOR CONTROL CABLE WITHOUT GROUNDING CONDUCTOR

9525.01402000	14	2	30	0.76	0.28	7.1	0.49	12.4	50	1.27	0.60	15.2	0.29	144	214	15
9525.01403000	14	3	30	0.76	0.30	7.6	0.49	12.4	50	1.27	0.60	15.2	0.29	155	231	15
9525.01404000	14	4	30	0.76	0.33	8.4	0.53	13.5	50	1.27	0.64	16.3	0.33	183	273	15
9525.01405000	14	5	30	0.76	0.37	9.4	0.58	14.7	50	1.27	0.69	17.5	0.38	213	317	15
9525.01407000	14	7	30	0.76	0.41	10.4	0.62	15.7	50	1.27	0.73	18.5	0.42	257	383	15
9525.01409000	14	9	30	0.76	0.50	12.7	0.71	18.0	50	1.27	0.82	20.8	0.54	312	465	15
9525.01412000	14	12	30	0.76	0.57	14.5	0.80	20.3	50	1.27	0.91	23.1	0.66	386	575	12
9525.01419000	14	19	30	0.76	0.69	17.5	0.93	23.6	50	1.27	1.04	26.4	0.86	544	810	12
9525.01437000	14	37	30	0.76	0.96	24.4	1.24	31.5	50	1.27	1.35	34.3	1.45	959	1,427	10

12 AWG 7W (3.31 mm²) MULTI-CONDUCTOR CONTROL CABLE WITHOUT GROUNDING CONDUCTOR

9525.01202000	12	2	30	0.76	0.31	7.9	0.53	13.5	50	1.27	0.64	16.3	0.33	166	247	20
9525.01203000	12	3	30	0.76	0.34	8.6	0.53	13.5	50	1.27	0.64	16.3	0.33	192	285	20
9525.01204000	12	4	30	0.76	0.38	9.7	0.58	14.7	50	1.27	0.69	17.5	0.38	229	341	20
9525.01205000	12	5	30	0.76	0.42	10.7	0.62	15.7	50	1.27	0.73	18.5	0.42	266	395	20
9525.01207000	12	7	30	0.76	0.47	11.9	0.67	17.0	50	1.27	0.78	19.8	0.48	328	489	20
9525.01209000	12	9	30	0.76	0.56	14.2	0.80	20.3	50	1.27	0.91	23.1	0.66	410	611	20
9525.01212000	12	12	30	0.76	0.65	16.5	0.89	22.6	50	1.27	0.99	25.1	0.78	510	759	15
9525.01219000	12	19	30	0.76	0.78	19.8	1.02	25.9	50	1.27	1.13	28.7	1.02	731	1,087	15
9525.01237000	12	37	30	0.76	1.08	27.4	1.37	34.8	50	1.27	1.48	37.6	1.74	1,318	1,962	12

10 AWG 7W (5.26 mm²) MULTI-CONDUCTOR CONTROL CABLE WITHOUT GROUNDING CONDUCTOR

9525.01002000	10	2	30	0.76	0.36	9.1	0.58	14.7	50	1.27	0.69	17.5	0.38	205	305	30
9525.01003000	10	3	30	0.76	0.39	9.9	0.58	14.7	50	1.27	0.69	17.5	0.38	241	359	30
9525.01004000	10	4	30	0.76	0.44	11.2	0.67	17.0	50	1.27	0.78	19.8	0.48	301	448	30
9525.01005000	10	5	30	0.76	0.48	12.2	0.71	18.0	50	1.27	0.82	20.8	0.54	353	525	30
9525.01007000	10	7	30	0.76	0.54	13.7	0.75	19.1	50	1.27	0.86	21.8	0.59	442	658	28
9525.01009000	10	9	30	0.76	0.65	16.5	0.89	22.6	50	1.27	1.00	25.4	0.80	551	820	28
9525.01012000	10	12	30	0.76	0.74	18.8	0.97	24.6	50	1.27	1.08	27.4	0.93	693	1,032	20

Dimensions and weights are nominal; subject to industry tolerances.

¹ Cross-sectional area for cable tray fill is in accordance with NEC[®] Section 392.22.

² Ampacities in accordance with NEC[®] Article 310 and Table 310.15(B)(16).

Note: Standard cables with up to and including six (6) conductors are also marked CSA Type RA90. All others are special order.



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CCW[®] Armored Power, 3/C VFD and 4/C

UL Type MC-HL, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

- Bare annealed copper per ASTM B3
- 10 AWG and smaller are Class B compressed stranding per ASTM B8
- 8 AWG and larger are compact stranding per ASTM B496

Insulation:

- Cross-linked Polyethylene (XLPE) insulation per ICEA S-95-658 and UL 44, Listed XHHW-2
- 6 AWG and smaller are color-coded per ICEA Method 1, Table E2
- 4 AWG and larger are black with printed numbers per ICEA Method 4
- Color-coded per CSA C22.2 No. 123 where applicable

Grounding Conductor(s):

- Class B stranded bare annealed copper per ASTM B3 and B8
- Where specified, single or three split grounding wires are sized in accordance with NEC Table 250.122

Cable Assembly:

- Insulated conductors and grounding wire(s) are cabled together with non-hygroscopic fillers when required
- A binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569 and UL 2225
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Meets CSA Low Acid Gas requirements

Applications:

- Variable Frequency Drives: 3-conductor CCW armored cables with three (3) symmetrical grounding wires are the preferred wiring method for use with AC motors controlled by pulse-width modulated inverters in VFD applications
- CCW armored cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- For use as services, feeders and branch circuits for power, lighting, control, and signal circuits in accordance with NEC Articles 330 and 725
- Installed indoors or outdoors, wet or dry locations, directly buried, embedded in concrete, in a raceway, as aerial cable on a messenger, in cable trays, or as exposed runs secured to supports in accordance with NEC Article 330
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- 3-conductor CCW power cables with three grounding wires are recommended for use with pulse-width modulated AC drives
- CCW armor provides an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Factory assembled and tested cable for use as an alternative to cable in conduit wiring systems

Features: (cont'd)

- Meets cold impact at -40°C
- 90°C continuous operating temperature, wet or dry
- 130°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-95-658/WC70 Standard for Nonshielded Power Cable, 2 kV or Less
- UL 44 Rubber Insulated Wires and Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable
- CSA C22.2 No. 123 Metal Sheathed Cables
- CSA C22.2 No. 174 Cables and Cable Glands for Use in Hazardous Locations

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type MC-HL, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, UL File # E69797
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- CSA Certified Type RA90, XLPE, HL, SR, FT4, and -40°C, CSA File # 7319

¹ Standard cables are also marked CSA Type RA90, except four (4) conductor cables which require a different color code, which may be special-ordered.

CCW[®] Armored Power, 3/C VFD and 4/C

UL Type MC-HL, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NO. OF COND.	INSULATION THICKNESS		BARE GROUND (AWG)	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT		90°C AMPACITY @ 30°C AMBIENT ²
			mils	mm		INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m	
9600.01403318	14 (7/W) (2.08 mm ²)	3	30	0.76	3 x #18	0.33	8.4	0.53	13.5	50	1.27	0.64	16.3	0.33	163	242	15
9600.01404318		4	30	0.76	3 x #18	0.37	9.4	0.58	14.7	50	1.27	0.69	17.5	0.38	226	336	15
9600.01203316	12 (7/W) (3.31 mm ²)	3	30	0.76	3 x #16	0.37	9.4	0.58	14.7	50	1.27	0.69	17.5	0.38	243	362	20
9600.01204316		4	30	0.76	3 x #16	0.45	11.4	0.67	17.0	50	1.27	0.78	19.8	0.48	291	433	20
9600.01003314	10 (7/W) (5.26 mm ²)	3	30	0.76	3 x #14	0.41	10.4	0.62	15.7	50	1.27	0.73	18.5	0.42	305	454	30
9600.01004314		4	30	0.76	3 x #14	0.45	11.4	0.67	17.0	50	1.27	0.78	19.8	0.48	354	527	30
9600.00803314	8 (7/W) (8.36 mm ²)	3	45	1.14	3 x #14	0.50	12.7	0.71	18.0	50	1.27	0.81	20.6	0.52	392	583	55
9600.00804110		4	45	1.14	1 x #10	0.58	14.7	0.80	20.3	50	1.27	0.90	22.9	0.64	473	704	44
9600.00603312	6 (7/W) (13.3 mm ²)	3	45	1.14	3 x #12	0.58	14.7	0.80	20.3	50	1.27	0.90	22.9	0.64	534	795	75
9600.00604108		4	45	1.14	1 x #8	0.66	16.8	0.89	22.6	50	1.27	0.99	25.1	0.78	641	954	60
9600.00403312	4 (7/W) (21.2 mm ²)	3	45	1.14	3 x #12	0.68	17.3	0.89	22.6	50	1.27	0.99	25.1	0.78	716	1,066	95
9600.00404108		4	45	1.14	1 x #8	0.77	19.6	0.97	24.6	50	1.27	1.08	27.4	0.93	860	1,280	76
9600.00203310	2 (7/W) (33.6 mm ²)	3	45	1.14	3 x #10	0.80	20.3	1.02	25.9	50	1.27	1.13	28.7	1.02	1,013	1,507	130
9600.00204106		4	45	1.14	1 x #6	0.92	23.4	1.15	29.2	50	1.27	1.26	32.0	1.26	1,267	1,885	104
9600.00103310	1 (19/W) (42.4 mm ²)	3	55	1.40	3 x #10	0.92	23.4	1.15	29.2	50	1.27	1.26	32.0	1.26	1,119	1,666	150
9600.00104106		4	55	1.40	1 x #6	1.04	26.4	1.29	32.8	50	1.27	1.40	35.6	1.56	1,526	2,272	120
9600.11003310	1/0 (19/W) (53.5 mm ²)	3	55	1.40	3 x #10	1.00	25.4	1.24	31.5	50	1.27	1.34	34.0	1.43	1,496	2,226	170
9600.11004106		4	55	1.40	1 x #6	1.12	28.4	1.37	34.8	50	1.27	1.48	37.6	1.74	1,862	2,771	136
9600.21003310	2/0 (19/W) (67.4 mm ²)	3	55	1.40	3 x #10	1.09	27.7	1.34	34.0	50	1.27	1.44	36.6	1.65	1,801	2,681	195
9600.21004106		4	55	1.40	1 x #6	1.23	31.2	1.51	38.4	60	1.52	1.64	41.7	2.14	2,351	3,498	156
9600.31003308	3/0 (19/W) (85.0 mm ²)	3	55	1.40	3 x #8	1.21	30.7	1.47	37.3	60	1.52	1.58	40.1	1.99	2,262	3,367	225
9600.31004104		4	55	1.40	1 x #4	1.36	34.5	1.65	41.9	60	1.52	1.78	45.2	2.52	2,921	4,346	180
9600.41003308	4/0 (19/W) (107 mm ²)	3	55	1.40	3 x #8	1.33	33.8	1.60	40.6	60	1.52	1.73	43.9	2.38	2,722	4,051	260
9600.41004104		4	55	1.40	1 x #4	1.49	37.8	1.78	45.2	60	1.52	1.91	48.5	2.90	3,491	5,194	208
9600.25003308	250 (37/W) (127 mm ²)	3	65	1.65	3 x #8	1.48	37.6	1.74	44.2	60	1.52	1.87	47.5	—	3,195	4,755	290
9600.25004104		4	65	1.65	1 x #4	1.64	41.7	1.96	49.8	60	1.52	2.09	53.1	—	4,142	6,164	232
9600.35003307	350 (37/W) (177 mm ²)	3	65	1.65	3 x #7	1.66	42.2	1.96	49.8	60	1.52	2.09	53.1	—	4,284	6,376	350
9600.35004103		4	65	1.65	1 x #3	1.89	48.0	2.19	55.6	75	1.91	2.35	59.7	—	5,536	8,238	280
9600.50003306	500 (37/W) (253 mm ²)	3	65	1.65	3 x #6	1.94	49.3	2.28	57.9	75	1.91	2.44	62.0	—	6,035	8,981	430
9600.50004102		4	65	1.65	1 x #2	2.14	54.4	2.49	63.2	75	1.91	2.65	67.3	—	7,704	11,464	344
9600.75003305	750 (61/W) (380 mm ²)	3	80	2.03	3 x #5	2.37	60.2	2.75	69.9	75	1.91	2.92	74.2	—	8,854	13,176	535
9600.75004101		4	80	2.03	1 x #1	2.61	66.3	3.03	77.0	85	2.16	3.21	81.5	—	11,449	17,037	428
9600.100031110	1000 (61/W) (507 mm ²)	3	80	2.03	1 x #1/0	2.67	67.8	3.11	79.0	85	2.16	3.30	83.8	—	11,611	17,280	615
9600.100041110		4	80	2.03	1 x #1/0	3.07	78.0	3.63	92.2	85	2.16	3.81	96.8	—	15,377	22,883	492

Dimensions and weights are nominal; subject to industry tolerances.

¹ Cross-sectional area for cable tray fill is in accordance with NEC Section 392.22.

² Ampacities in accordance with NEC Article 310 and Table 310.15(B)(16).

Note: Three (3) conductors, 6 AWG and smaller are also marked CSA Type RA90. One (1) AWG and larger are also marked CSA Type RA90.



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CCW[®] Armored Power, 3/C VFD

UL Type MC-HL, XLPE, 2000 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- 10 AWG and smaller are Class B compressed stranding per ASTM B8
- 8 AWG and larger are compact standing per ASTM B496

Insulation:

- Cross-linked Polyethylene (XLPE) insulation, 2000 V thicknesses per ICEA S-95-658
- Color-coded black with printed numbers per ICEA Method 4

Grounding Conductors:

- Class B stranded bare annealed copper per ASTM B3 and B8
- Three (3) split grounding wires per specification 9615 exceed the minimum required in NEC Table 250.122

Cable Assembly:

- Insulated conductors and grounding wires are cabled together with non-hygroscopic fillers when required
- A binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569 and UL 2225
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) — Black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- Variable Frequency Drives: 3-conductor CCW armored cables with three (3) symmetrical grounding wires is the preferred wiring method for use with AC motors controlled by pulse-width modulated Inverters in VFD applications
- CCW armored cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502 and 503
- For use as services, feeders and branch circuits for power, lighting, control, and signal circuits in accordance with NEC Articles 330 and 725
- Installed indoors or outdoors, wet or dry locations, directly buried, embedded in concrete, in a raceway, as aerial cable on a messenger, in cable trays, or as exposed runs secured to supports in accordance with NEC Article 330
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- 90°C, 2000 V rated XLPE insulation with a dielectric constant less than 3.0 to withstand momentary voltage spikes common in certain VFD applications
- Three (3) oversized, symmetrical grounding wires recommended for use with pulse-width modulated AC drives
- CCW armor provides an impervious barrier to moisture, gas and liquids

Features: (cont'd)

- CCW armor provides EMI shielding performance
- Factory assembled and tested cable for use as an alternative to cable in conduit wiring systems
- Meets cold impact at -40°C
- 90°C continuous operating temperature, wet or dry
- 130°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-95-658/WC70 Standard for Nonshielded Power Cable, 2 kV or Less
- UL 44 Rubber Insulated Wires and Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 332-3 Cat. A

Compliances:

- UL Type MC-HL, SUN RES, CT USE, DIR BUR, -40°C, UL File # E69797
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Power, 3/C VFD

UL Type MC-HL, XLPE, 2000 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NO. OF COND.	INSULATION THICKNESS		BARE GROUND (AWG)	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		90°C AMPACITY @ 30°C AMBIENT ¹
			mils	mm		INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT	kg/1000 m	
9615.01403318	14 (7/W) (2.08 mm ²)	3	45	1.14	3 x #18	0.58	14.7	0.64	16.3	50	1.27	0.74	18.9	240	357	15
9615.01203316	12 (7/W) (3.31 mm ²)	3	45	1.14	3 x #16	0.60	15.2	0.68	17.3	50	1.27	0.78	19.9	270	402	20
9615.01003314	10 (7/W) (5.26 mm ²)	3	45	1.14	3 x #14	0.64	16.3	0.72	18.3	50	1.27	0.82	20.9	325	484	30
9615.00803314	8 (7/W) (8.36 mm ²)	3	55	1.40	3 x #14	0.67	17.0	0.75	19.1	50	1.27	0.85	21.7	420	625	55
9615.00603312	6 (7/W) (13.3 mm ²)	3	60	1.52	3 x #12	0.84	21.3	0.92	23.4	50	1.27	1.02	26.0	600	893	75
9615.00403312	4 (7/W) (21.2 mm ²)	3	60	1.52	3 x #12	0.95	24.1	1.03	26.2	50	1.27	1.13	28.8	800	1,191	95
9615.00203310	2 (7/W) (33.6 mm ²)	3	60	1.52	3 x #10	1.10	27.8	1.18	30.0	50	1.27	1.28	32.6	1,100	1,637	130
9615.00103310	1 (19/W) (42.4 mm ²)	3	80	2.03	3 x #10	1.26	32.0	1.35	34.3	50	1.27	1.45	36.9	1,300	1,935	150
9615.11003310	1/0 (19/W) (53.5 mm ²)	3	80	2.03	3 x #10	1.40	35.6	1.50	38.1	50	1.27	1.60	40.7	1,800	2,679	170
9615.21003306	2/0 (19/W) (67.4 mm ²)	3	80	2.03	3 x #6	1.50	38.1	1.60	40.6	50	1.27	1.70	43.3	2,200	3,274	195
9615.41003304	4/0 (19/W) (107 mm ²)	3	80	2.03	3 x #4	1.79	45.6	1.90	48.3	60	1.52	2.02	51.4	3,100	4,613	260
9615.25003304	250 (37/W) (127 mm ²)	3	90	2.29	3 x #4	1.98	50.4	2.10	53.3	60	1.52	2.22	56.5	3,600	5,357	290
9615.35003302	350 (37/W) (177 mm ²)	3	90	2.29	3 x #2	2.28	57.8	2.40	61.0	60	1.52	2.52	64.1	4,800	7,143	350
9615.50003301	500 (37/W) (253 mm ²)	3	90	2.29	3 x #1	2.58	65.4	2.70	68.6	75	1.91	2.86	72.5	6,800	10,119	430

Dimensions and weights are nominal; subject to industry tolerances.

¹ Ampacities in accordance with NEC Article 310 and Table 310.15(B)(16).



Phone: 888-593-3355
www.generalcable.com

CCW[®] Armored Composite Power and Control

UL Type MC-HL, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- 10 AWG and smaller are Class B compressed stranding per ASTM B8
- 8 AWG and larger are compact stranding per ASTM B496

Insulation:

- Cross-linked Polyethylene (XLPE) insulation per ICEA S-95-658 and UL 44, Listed XHHW-2
- Power conductors 6 AWG and smaller are color-coded per ICEA Method 1, Table E2
- Power conductors 4 AWG and larger are black with printed numbers per ICEA Method 4
- Control conductors are color-coded black, red, blue and yellow

Grounding Conductor:

- Class B stranded bare annealed copper per ASTM B3 and B8
- Sized in accordance with NEC Table 250.122

Cable Assembly:

- Insulated conductors and grounding wire are cabled together with non-hygroscopic fillers when required
- A binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569 and UL 2225
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Composite Power and Control cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- For use as services, feeders and branch circuits for power, lighting, control, and signal circuits in accordance with NEC Articles 330 and 725
- Installed indoors or outdoors, wet or dry locations, directly buried, embedded in concrete, in a raceway, as aerial cable on a messenger, in cable trays, or as exposed runs secured to supports in accordance with NEC Article 330
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Factory assembled and tested cable for use as an alternative to cable in conduit wiring systems
- Meets cold impact at -40°C
- 90°C continuous operating temperature, wet or dry
- 130°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-95-658/WC70 Standard for Nonshielded Power Cables, 2 kV or Less
- UL 44 Rubber Insulated Wires and Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type MC-HL, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, UL File # E69797
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Composite Power and Control

UL Type MC-HL, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	POWER COND. SIZE (AWG)	POWER INSULATION THICKNESS		CONTROL COND. SIZE (AWG)	CONTROL INSULATION THICKNESS		BARE GROUNDING (AWG)	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT		90°C AMPACITY @ 30°C AMBIENT ²
		mils	mm		mils	mm		INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m	
9625.103124110	3x#10 (7/W) (5.26 mm ²)	30	0.76	4 x #12 (7/W) (3.31 mm ²)	30	0.76	10 (7/W) (5.2 mm ²)	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	430	640	30
9625.083124110	3x#8 (7/W) (8.36 mm ²)	45	1.14		30	0.76		0.65	16.5	0.89	22.6	50	1.27	0.99	25.1	0.78	535	796	55
9625.063124108	3x#6 (7/W) (13.3 mm ²)	45	1.14		30	0.76	8 (7/W) (8.36 mm ²)	0.69	17.5	0.93	23.6	50	1.27	1.03	26.2	0.84	660	982	75
9625.043124108	3x#4 (7/W) (21.2 mm ²)	45	1.14		30	0.76		0.74	18.8	0.97	24.6	50	1.27	1.08	27.4	0.93	815	1,213	95

Dimensions and weights are nominal; subject to industry tolerances.
¹ Cross-sectional area for cable tray fill is in accordance with NEC Section 392.22.
² Ampacities in accordance with NEC Article 310 and Table 310.15(B)(16).



CCW[®] Armored Composite Power and Control Without Ground

UL Type MC, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

GENERAL CABLE CCW[®]



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Sizes 10 AWG and smaller are Class B compressed stranding per ASTM B8
- Sizes 8 AWG and larger are compact stranding per ASTM B496

Insulation:

- Cross-linked Polyethylene (XLPE) insulation per ICEA S-95-658 and UL 44, Listed XHHW-2
- Power conductors sizes 6 AWG and smaller are color-coded per ICEA Method 1, Table E2
- Power conductors sizes 4 AWG and larger are black with printed numbers per ICEA Method 4
- Control conductors are color-coded black, red, blue and yellow

Cable Assembly:

- Insulated conductors are cabled together with non-hygroscopic fillers when required
- A binder tape, when required, is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Composite Power and Control cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use in Class I and II, Division 2; Class III, Divisions 1 and 2; and Class I, Zone 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- For use as services, feeders and branch circuits for power, lighting, control, and signal circuits in accordance with NEC Articles 330 and 725
- Installed indoors or outdoors, wet or dry locations, directly buried, embedded in concrete, in a raceway, as aerial cable on a messenger, in cable trays, or as exposed runs secured to supports in accordance with NEC Article 330
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Factory assembled and tested cable for use as an alternative to cable in conduit wiring systems

Features: (cont'd)

- Meets cold impact at -40°C
- 90°C continuous operating temperature, wet or dry
- 130°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-95-658/WC70 Standard for Nonshielded Power Cable, 2 kV or Less
- UL 44 Rubber Insulated Wires and Cables
- UL 1569 Metal Clad Cables
- UL 1309 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

Compliances:

- UL Type MC, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, UL File # E69797
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Composite Power and Control Without Ground

UL Type MC, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial
UL Marine Shipboard Cable, ABS CWCMC

CATALOG NUMBER	POWER COND. SIZE (AWG)	POWER INSULATION THICKNESS		CONTROL COND. SIZE (AWG)	CONTROL INSULATION THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT		90°C AMPACITY @ 30°C AMBIENT ²
		mils	mm		mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m	
9650.123143000	3x#12 (7/0) (3.31 mm ²)	30	0.76	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	307	457	20
9650.123144000	3x#12 (7/0) (3.31 mm ²)	30	0.76	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	323	481	20
9650.124143000	4x#12 (7/0) (3.31 mm ²)	30	0.76	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.49	12.4	0.71	18.0	50	1.27	0.82	20.8	0.54	365	543	20
9650.124144000	4x#12 (7/0) (3.31 mm ²)	30	0.76	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	388	577	20
9650.103143000	3x#10 (7/0) (5.26 mm ²)	30	0.76	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	384	571	30
9650.103144000	3x#10 (7/0) (5.26 mm ²)	30	0.76	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	392	583	30
9650.103123000	3x#10 (7/0) (5.26 mm ²)	30	0.76	3x#12 (7/0) (3.31 mm ²)	30	0.76	0.53	13.5	0.75	19.1	50	1.27	0.86	21.8	0.59	410	610	30
9650.104143000	4x#10 (7/0) (5.26 mm ²)	30	0.76	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	412	613	30
9650.104144000	4x#10 (7/0) (5.26 mm ²)	30	0.76	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	428	637	30
9650.104123000	4x#10 (7/0) (5.26 mm ²)	30	0.76	3x#12 (7/0) (3.31 mm ²)	30	0.76	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	436	649	30
9650.104124000	4x#10 (7/0) (5.26 mm ²)	30	0.76	4x#12 (7/0) (3.31 mm ²)	30	0.76	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	460	685	30
9650.083143000	3x#8 (7/0) (8.36 mm ²)	45	1.14	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.58	14.7	0.80	20.3	50	1.27	0.91	23.1	0.66	424	631	55
9650.083144000	3x#8 (7/0) (8.36 mm ²)	45	1.14	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.62	15.7	0.84	21.3	50	1.27	0.91	23.1	0.66	455	677	55
9650.083123000	3x#8 (7/0) (8.36 mm ²)	45	1.14	3x#12 (7/0) (3.31 mm ²)	30	0.76	0.58	14.7	0.80	20.3	50	1.27	0.95	24.1	0.72	455	677	55
9650.083124000	3x#8 (7/0) (8.36 mm ²)	45	1.14	4x#12 (7/0) (3.31 mm ²)	30	0.76	0.62	15.7	0.84	21.3	50	1.27	0.91	23.1	0.66	495	737	55
9650.084143000	4x#8 (7/0) (8.36 mm ²)	45	1.14	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	505	752	44
9650.084144000	4x#8 (7/0) (8.36 mm ²)	45	1.14	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.67	17.0	0.89	22.6	50	1.27	1.00	25.4	0.80	530	789	44
9650.084123000	4x#8 (7/0) (8.36 mm ²)	45	1.14	3x#12 (7/0) (3.31 mm ²)	30	0.76	0.67	17.0	0.89	22.6	50	1.27	1.00	25.4	0.80	535	796	44
9650.084124000	4x#8 (7/0) (8.36 mm ²)	45	1.14	4x#12 (7/0) (3.31 mm ²)	30	0.76	0.71	18.0	0.93	23.6	50	1.27	1.04	26.4	0.86	576	857	44
9650.063143000	3x#6 (7/0) (13.3 mm ²)	45	1.14	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	525	781	75
9650.063144000	3x#6 (7/0) (13.3 mm ²)	45	1.14	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	545	811	75
9650.063123000	3x#6 (7/0) (13.3 mm ²)	45	1.14	3x#12 (7/0) (3.31 mm ²)	30	0.76	0.62	15.7	0.84	21.3	50	1.27	0.95	24.1	0.72	556	827	75
9650.063124000	3x#6 (7/0) (13.3 mm ²)	45	1.14	4x#12 (7/0) (3.31 mm ²)	30	0.76	0.71	18.0	0.93	23.6	50	1.27	1.03	26.2	0.84	606	902	75
9650.064143000	4x#6 (7/0) (13.3 mm ²)	45	1.14	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.71	18.0	0.93	23.6	50	1.27	1.04	26.4	0.86	657	978	60
9650.064144000	4x#6 (7/0) (13.3 mm ²)	45	1.14	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.71	18.0	0.93	23.6	50	1.27	1.04	26.4	0.86	667	993	60
9650.064123000	4x#6 (7/0) (13.3 mm ²)	45	1.14	3x#12 (7/0) (3.31 mm ²)	30	0.76	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	687	1,022	60
9650.064124000	4x#6 (7/0) (13.3 mm ²)	45	1.14	4x#12 (7/0) (3.31 mm ²)	30	0.76	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	717	1,067	60
9650.043143000	3x#4 (7/0) (21.2 mm ²)	45	1.14	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.71	18.0	0.93	23.6	50	1.27	1.04	26.4	0.86	707	1,052	95
9650.043144000	3x#4 (7/0) (21.2 mm ²)	45	1.14	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.71	18.0	0.93	23.6	50	1.27	1.04	26.4	0.86	727	1,082	95
9650.043123000	3x#4 (7/0) (21.2 mm ²)	45	1.14	3x#12 (7/0) (3.31 mm ²)	30	0.76	0.71	18.0	0.93	23.6	50	1.27	1.04	26.4	0.86	727	1,082	95
9650.043124000	3x#4 (7/0) (21.2 mm ²)	45	1.14	4x#12 (7/0) (3.31 mm ²)	30	0.76	0.75	19.1	0.97	24.6	50	1.27	1.08	27.4	0.93	768	1,143	95
9650.044143000	4x#4 (7/0) (21.2 mm ²)	45	1.14	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	899	1,338	76
9650.044144000	4x#4 (7/0) (21.2 mm ²)	45	1.14	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	929	1,383	76
9650.044123000	4x#4 (7/0) (21.2 mm ²)	45	1.14	3x#12 (7/0) (3.31 mm ²)	30	0.76	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	929	1,383	76
9650.044124000	4x#4 (7/0) (21.2 mm ²)	45	1.14	4x#12 (7/0) (3.31 mm ²)	30	0.76	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	960	1,429	76
9650.023143000	3x#2 (7/0) (33.6 mm ²)	45	1.14	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	995	1,481	130
9650.023144000	3x#2 (7/0) (33.6 mm ²)	45	1.14	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	1,010	1,503	130
9650.023123000	3x#2 (7/0) (33.6 mm ²)	45	1.14	3x#12 (7/0) (3.31 mm ²)	30	0.76	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	1,020	1,518	130
9650.023124000	3x#2 (7/0) (33.6 mm ²)	45	1.14	4x#12 (7/0) (3.31 mm ²)	30	0.76	0.81	20.6	1.06	26.9	50	1.27	1.17	29.7	1.09	1,050	1,563	130
9650.024143000	4x#2 (7/0) (33.6 mm ²)	45	1.14	3x#14 (7/0) (2.08 mm ²)	30	0.76	0.90	22.9	1.15	29.2	50	1.27	1.26	32.0	1.26	1,242	1,848	104
9650.024144000	4x#2 (7/0) (33.6 mm ²)	45	1.14	4x#14 (7/0) (2.08 mm ²)	30	0.76	0.90	22.9	1.15	29.2	50	1.27	1.26	32.0	1.26	1,263	1,880	104
9650.024123000	4x#2 (7/0) (33.6 mm ²)	45	1.14	3x#12 (7/0) (3.31 mm ²)	30	0.76	0.90	22.9	1.15	29.2	50	1.27	1.26	32.0	1.26	1,273	1,894	104
9650.024124000	4x#2 (7/0) (33.6 mm ²)	45	1.14	4x#12 (7/0) (3.31 mm ²)	30	0.76	0.90	22.9	1.15	29.2	50	1.27	1.26	32.0	1.26	1,293	1,924	104

Dimensions and weights are nominal; subject to industry tolerances.
¹ Cross-sectional area for cable tray fill is in accordance with NEC Section 392.22.
² Ampacities in accordance with NEC Article 310 and Table 310.15(B)(16).



CCW[®] Armored Power, 1000 V, 3/C VFD

CSA Type RA90, XLPE, 1000 V, 90°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, FT4, -40°C, AG14, HL



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Sizes 10 AWG and smaller are Class B compressed stranding per ASTM B8
- Sizes 8 AWG and larger are compact stranding per ASTM B496

Insulation:

- Cross-linked Polyethylene (XLPE) insulation rated 1000 Volts, RW90 per CSA C22.2 No. 38
- Sizes 2 AWG and smaller utilize a single color insulation: black, red and blue
- Sizes 1 AWG and larger utilize black insulation with printed number/color, 1-black, 2-red, 3-blue

Bonding/Grounding Conductors:

- Class B stranded bare annealed copper per ASTM B3 and B8
- Three (3) symmetrical grounding wires are sized in accordance with CEC Table 16

Cable Assembly:

- Three symmetrical grounding wires are cabled within the interstices of the phase conductors
- Non-hygroscopic fillers when required
- A binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per C22.2 No. 123

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black
- Meets CSA Low Gas Emission requirements, AG14

Applications:

- Variable Frequency Drives: 3-conductor CCW armored cables with three (3) symmetrical grounding wires are the preferred wiring method for use with AC motors controlled by pulse-width modulated inverters in VFD applications
- CCW armored cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use in industrial and commercial installations including hazardous locations in accordance with the CEC
- Can be installed in wet or dry locations, indoors or outdoors, in cable trays, in a raceway, or direct buried in accordance with the CEC

Features:

- 90°C, 1000 V wet or dry XLPE insulation and three (3) symmetrical grounding wires, recommended for use with pulse-width modulated AC drives
- XLPE insulation has a dielectric constant less than 3.0 to withstand momentary voltage spikes common with VFD applications

Features: (cont'd)

- CCW armor provides an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Factory assembled and tested cable for use as an alternative to cable in conduit wiring systems
- Meets cold impact at -40°C
- 90°C continuous operating temperature, wet or dry
- 130°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- CSA C22.2 No. 38 Thermoset-Insulated Wires and Cables
- CSA C22.2 No. 123 Metal Sheathed Cables
- CSA C22.2 No. 174 Cables and Cable Glands for Use in Hazardous Locations

Flame Tests:

- CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- CSA Certified Type RA90, XLPE, HL, SR, FT4, AG14 and -40°C, CSA File # 7319

CCW[®] Armored Power, 1000 V, 3/C VFD

CSA Type RA90, XLPE, 1000 V, 90°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, FT4, -40°C, AG14, HL

CATALOG NUMBER	COND. SIZE (AWG (kcmil))	NO. OF COND.	INSULATION THICKNESS		BARE GROUND COND. (AWG)	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		MIN. BEND RADIUS ¹		90°C AMPACITY @ 30°C AMBIENT ²
			mils	mm		INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT	kg/1000 m	INCHES	mm	
9675.01203318	12 (7/W) (3.31 mm ²)	3	45	1.14	3 x #18	0.40	10.2	0.60	15.3	50	1.27	0.70	17.8	249	370	7.0	178	30
9675.01003316	10 (7/W) (5.26 mm ²)	3	45	1.14	3 x #16	0.45	11.5	0.63	16.1	50	1.27	0.73	18.6	299	445	7.3	185	40
9675.00803314	8 (7/W) (8.36 mm ²)	3	45	1.14	3 x #14	0.50	12.7	0.76	19.2	50	1.27	0.86	21.9	417	620	8.6	218	55
9675.00603312	6 (7/W) (13.3 mm ²)	3	60	1.52	3 x #12	0.64	16.3	0.91	23.2	50	1.27	1.02	26.0	601	895	12.2	311	75
9675.00403312	4 (7/W) (21.2 mm ²)	3	60	1.52	3 x #12	0.74	18.7	0.98	24.8	50	1.27	1.08	27.4	763	1,135	12.9	329	95
9675.00203310	2 (7/W) (33.6 mm ²)	3	60	1.52	3 x #10	0.86	21.8	1.18	29.9	50	1.27	1.28	32.5	1,122	1,670	15.4	390	130
9675.00103310	1 (19/W) (42.4 mm ²)	3	80	2.03	3 x #10	1.01	25.7	1.36	34.6	50	1.27	1.46	37.1	1,404	2,090	17.5	445	145
9675.11003310	1/0 (19/W) (53.5 mm ²)	3	80	2.03	3 x #10	1.09	27.8	1.42	36.0	50	1.27	1.52	38.6	1,623	2,415	18.2	462	170
9675.21003310	2/0 (19/W) (67.4 mm ²)	3	80	2.03	3 x #10	1.18	30.0	1.56	39.6	50	1.27	1.66	42.2	2,043	3,040	20.0	506	195
9675.41003308	4/0 (19/W) (107 mm ²)	3	80	2.03	3 x #8	1.40	35.5	1.75	44.4	50	1.27	1.85	47.0	2,950	4,390	22.2	564	260
9675.25003308	250 (37/W) (127 mm ²)	3	90	2.29	3 x #8	1.49	37.8	1.90	48.2	50	1.27	2.01	51.1	3,380	5,030	24.1	612	290
9675.35003308	350 (37/W) (177 mm ²)	3	90	2.29	3 x #8	1.74	44.3	2.22	56.4	50	1.27	2.33	59.2	4,465	6,645	27.9	710	350
9675.50003306	500 (37/W) (253 mm ²)	3	90	2.29	3 x #6	2.00	50.9	2.48	63.0	50	1.27	2.59	65.8	6,152	9,155	31.0	789	430

Dimensions and weights are nominal; subject to industry tolerances.
¹ Minimum bend radius per Canadian Electrical Code, Part I, Section 12-712.
² Ampacity per Table #2, Canadian Electrical Code.

CCW[®] Armored Power, 2.4 kV, Nonshielded, 3/C VFD

UL Type MC-HL or MV-90, EPR, 90°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Compact stranding per ASTM B496

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conductor stress control layer over conductor per ICEA S-96-659 and UL 1072

Insulation:

- 90 mils Ethylene Propylene Rubber (EPR) insulation per ICEA S-96-659 and UL 1072
- Insulation is printed 1-black, 2-red and 3-blue for phase identification

Grounding Conductors:

- Three (3) split Class B stranded bare annealed copper grounding conductors
- Sized in accordance with UL 1072 and NEC Table 250.122

Cable Assembly:

- Insulated and grounding conductors are cabled together with non-hygroscopic fillers when required
- Binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1072 and UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), yellow
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- Variable Frequency Drives: 3-conductor CCW armored cables with three (3) symmetrical grounding wires are the preferred wiring method for use with AC motors controlled by pulse-width modulated inverters in VFD applications
- CCW armored Medium-Voltage power cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use on feeders and branch circuits in industrial power distribution systems per NEC Articles 328 and 330
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed on metal racks, troughs, in raceways, in cable trays or secured to supports spaced not more than six feet apart
- Installed in both exposed and concealed work, wet or dry locations, directly buried or embedded in concrete
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids and meets the grounding requirements of UL 1072 and the NEC
- Factory assembled and tested cable for use as an alternative to cable in conduit wiring systems

Features: (cont'd)

- General Cable's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Cable meets cold impact at -40°C
- 90°C continuous operating temperature, wet or dry
- 140°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-96-659/WC71 Standard for Nonshielded Cables Rated 2001 – 5000 Volts
- UL 1072 Medium-Voltage Power Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1072
- IEC 60332-3 Category A

Compliances:

- UL Type MV-90, UL File # E90501
- UL Type MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Power, 2.4 kV, Nonshielded, 3/C VFD

UL Type MC-HL or MV-90, EPR, 90°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC

CATALOG NUMBER	COND. SIZE	NO. OF COND.	INSULATION THICKNESS		NOMINAL O.D. OVER INSULATION		BARE GROUND	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		AMPACITY	
	AWG (kcmil)		mils	mm	INCHES	mm	AWG	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT	kg/1000 m	IN AIR ¹	DIRECT BURIAL ²
3/C WITH GROUND MC-HL OR MV-90, 90 MILS EPR, 2.4 kV, YELLOW JACKET																			
9700.00803312	8 (7/W) (8.36 mm ²)	3	90	2.3	0.36	9.1	3 x #12	0.77	19.6	0.97	24.6	50	1.27	1.08	27.4	570	848	59	85
9700.00603310	6 (7/W) (13.3 mm ²)	3	90	2.3	0.38	9.6	3 x #10	0.85	21.6	1.06	26.9	50	1.27	1.17	29.7	745	1,109	79	105
9700.00403310	4 (7/W) (21.2 mm ²)	3	90	2.3	0.43	10.8	3 x #10	0.97	24.6	1.19	30.2	50	1.27	1.30	33.0	965	1,436	105	135
9700.00203310	2 (7/W) (33.6 mm ²)	3	90	2.3	0.48	12.1	3 x #10	1.10	27.9	1.34	34.0	50	1.27	1.45	36.8	1,275	1,897	140	180
9700.00103308	1 (19/W) (42.4 mm ²)	3	90	2.3	0.52	13.1	3 x #8	1.16	29.5	1.42	36.1	50	1.27	1.53	38.9	1,525	2,269	160	200
9700.11003308	1/0 (19/W) (53.5 mm ²)	3	90	2.3	0.55	13.9	3 x #8	1.23	31.2	1.51	38.4	60	1.52	1.65	41.9	1,840	2,738	185	230
9700.21003308	2/0 (19/W) (67.4 mm ²)	3	90	2.3	0.59	14.9	3 x #8	1.33	33.8	1.60	40.6	60	1.52	1.73	43.9	2,165	3,222	215	260
9700.41003307	4/0 (19/W) (107 mm ²)	3	90	2.3	0.69	17.4	3 x #7	1.53	38.9	1.83	46.5	60	1.52	1.96	49.8	3,080	4,584	285	335
9700.25003307	250 (37/W) (127 mm ²)	3	90	2.3	0.74	18.7	3 x #7	1.64	41.7	1.96	49.8	60	1.52	2.09	53.1	3,475	5,171	320	365
9700.35003306	350 (37/W) (177 mm ²)	3	90	2.3	0.83	21.0	3 x #6	1.86	47.2	2.19	55.6	60	1.52	2.32	58.9	4,710	7,009	395	440
9700.50003305	500 (37/W) (253 mm ²)	3	90	2.3	0.95	24.0	3 x #5	2.10	53.3	2.45	62.2	75	1.91	2.61	66.3	6,410	9,539	485	530
9700.75003304	750 (61/W) (380 mm ²)	3	90	2.3	1.12	28.3	3 x #4	2.51	63.8	2.93	74.4	75	1.91	3.10	78.7	9,225	13,728	615	650
9700.10003304	1000 (61/W) (507 mm ²)	3	90	2.3	1.27	32.2	3 x #4	2.90	73.7	3.41	86.6	80	2.03	3.59	91.2	12,080	17,977	705	730

Dimensions and weights are nominal, subject to industry tolerances.

¹ In-air ampacities are per NEC Table 310.60(C)(71) for three insulated copper conductors rated 90°C, cabled with an overall covering and isolated in air at 40°C ambient temperature.

² Direct burial ampacities are per NEC Table 310.60(C)(83) for three insulated copper conductors rated 90°C, cabled within an overall covering and directly buried in earth at 20°C ambient earth temperature.



Phone: 888-593-3355
www.generalcable.com

CCW® Armored Power, 5 kV 133%/8 kV 100%, Shielded, 3/C VFD

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Compact stranding per ASTM B496

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conductor stress control layer over the conductor per ICEA S-93-639 and UL 1072

Insulation:

- 115 mils Ethylene Propylene Rubber (EPR) insulation per ICEA S-93-639 and UL 1072

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer, free stripping from the insulation per ICEA S-93-639 and UL 1072

Shield:

- 5 mil annealed bare copper tape with 25% overlap

Phase Identification:

- Color-coded polymeric identification tape laid under the shield — black, red and blue

Grounding Conductors:

- Three (3) split Class B stranded bare annealed copper grounding conductors
- Sized in accordance with UL 1072 and NEC Article 250

Cable Assembly:

- Insulated and grounding conductors are cabled together with non-hygroscopic fillers when required
- Binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1072 and UL 1569
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), yellow
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- Variable Frequency Drives: 3-conductor CCW armored cables with three (3) symmetrical grounding wires are the preferred wiring method for use with AC motors controlled by pulse-width modulated inverters in VFD applications
- CCW armored Medium-Voltage power cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use on feeders and branch circuits in industrial power distribution systems per NEC Articles 328 and 330
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed on metal racks, troughs, in raceways, in cable trays or secured to supports spaced not more than six feet apart
- Installed in both exposed and concealed work, wet or dry locations, directly buried or embedded in concrete
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids and meets the grounding requirements of UL 1072 and the NEC

Features: (cont'd)

- Triple Extrusion: The strand shield, EPR insulation and insulation shield are all extruded in one operation
- General Cable's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Cable meets cold impact at -40°C
- 105°C continuous operating temperature, wet or dry
- 140°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-93-639/WC-74, 5-46 kV Shielded Power Cable
- AEIC CS8 Specification for Shielded Power Cable, 5-46 kV
- UL 1072 Medium-Voltage Power Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable
- CSA C68.3

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1072
- IEC 60332-3 Category A

Compliances:

- UL Type MV-105, UL File # E90501
- UL Type MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Power, 5 kV 133%/8 kV 100%, Shielded, 3/C VFD
 UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
 Direct Burial, ABS CWCMC

CATALOG NUMBER	COND. SIZE	NO. OF COND.	INSULATION THICKNESS		NOMINAL O.D. OVER INSULATION		BARE GROUND	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		5 kV ³ AMPACITY	
	AWG (kcmil)		mils	mm	INCHES	mm	AWG	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT	kg/1000 m	IN AIR ¹	DIRECT BURIAL ²

3/C WITH GROUND MC-HL OR MV-105, 115 MILS EPR, 5 kV 133% AND 8 kV 100% INSULATION LEVEL

9800.00603310	6 (7/W) (13.3 mm ²)	3	115	2.9	0.43	10.9	3 x #10	1.15	29.2	1.37	34.8	50	1.27	1.48	37.6	1,121	1,668	88	115
9800.00403310	4 (7/W) (21.2 mm ²)	3	115	2.9	0.48	12.2	3 x #10	1.24	31.5	1.51	38.4	60	1.52	1.65	41.9	1,418	2,110	115	150
9800.00203310	2 (7/W) (33.6 mm ²)	3	115	2.9	0.53	13.5	3 x #10	1.37	34.8	1.64	41.7	60	1.52	1.78	45.2	1,731	2,576	154	190
9800.00103308	1 (19/W) (42.4 mm ²)	3	115	2.9	0.57	14.5	3 x #8	1.47	37.3	1.69	42.9	60	1.52	1.82	46.2	1,978	2,944	180	215
9800.11003308	1/0 (19/W) (53.5 mm ²)	3	115	2.9	0.60	15.2	3 x #8	1.56	39.6	1.78	45.2	60	1.52	1.91	48.5	2,259	3,362	205	245
9800.21003308	2/0 (19/W) (67.4 mm ²)	3	115	2.9	0.64	16.3	3 x #8	1.61	40.9	1.92	48.8	60	1.52	2.05	52.1	2,626	3,908	240	280
9800.41003307	4/0 (19/W) (107 mm ²)	3	115	2.9	0.74	18.8	3 x #7	1.82	46.2	2.15	54.6	60	1.52	2.28	57.9	3,650	5,432	320	360
9800.25003306	250 (37/W) (127 mm ²)	3	115	2.9	0.80	20.3	3 x #6	2.01	51.1	2.23	56.6	60	1.52	2.36	59.9	4,060	6,042	355	395
9800.35003306	350 (37/W) (177 mm ²)	3	115	2.9	0.89	22.6	3 x #6	2.10	53.3	2.45	62.2	75	1.91	2.61	66.3	5,045	7,508	440	475
9800.50003305	500 (37/W) (253 mm ²)	3	115	2.9	1.01	25.7	3 x #5	2.39	60.7	2.75	69.9	75	1.91	2.92	74.2	7,137	10,621	545	570
9800.75003304	750 (61/W) (380 mm ²)	3	115	2.9	1.19	30.2	3 x #4	3.07	78.0	3.32	84.3	85	2.16	3.50	88.9	10,268	15,280	685	700
9800.10003304	1000 (61/W) (507 mm ²)	3	115	2.9	1.34	34.0	3 x #4	3.43	87.1	3.76	95.5	85	2.16	3.94	100.1	13,051	19,422	790	785

Dimensions and weights are nominal; subject to industry tolerances.

¹ In-air ampacities are per NEC Table 310.60(C)(71) for three insulated copper conductors rated 105°C, cabled with an overall covering and isolated in air at 40°C ambient temperature.

² Direct burial ampacities are per NEC Table 310.60(C)(83) for three insulated copper conductors rated 105°C, cabled within an overall covering and directly buried in earth at 20°C ambient earth temperature.

³ For 8 kV ampacities, refer to NEC Tables 310.60(C)(71) and 310.60(C)(83) for cables listed 5001-35,000 volts.



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CCW® Armored Power, 8 kV 133%, Shielded, 3/C VFD

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Compact stranding per ASTM B496

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conductor stress control layer over the conductor per ICEA S-93-639 and UL 1072

Insulation:

- 140 mils Ethylene Propylene Rubber (EPR) insulation per ICEA S-93-639 and UL 1072

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer, free stripping from the insulation per ICEA S-93-639 and UL 1072

Shield:

- 5 mil annealed bare copper tape with 25% overlap

Phase Identification:

- Color-coded polymeric identification tape laid under the shield - black, red and blue

Grounding Conductors:

- Three (3) split Class B stranded bare annealed copper grounding conductors
- Sized in accordance with UL 1072 and NEC Article 250

Cable Assembly:

- Insulated and grounding conductors are cabled together with non-hygroscopic fillers when required
- Binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1072 and UL 1569
- CCW armor conductivity meets the grounding requirements of the NEC

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), yellow
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- Variable Frequency Drives: 3-conductor CCW armored cables with three (3) symmetrical grounding wires are the preferred wiring method for use with AC motors controlled by pulse-width modulated inverters in VFD applications
- CCW armored Medium-Voltage power cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use on feeders and branch circuits in industrial power distribution systems per NEC Articles 328 and 330
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed on metal racks, troughs, in raceways, in cable trays or secured to supports spaced not more than six feet apart
- Installed in both exposed and concealed work, wet or dry locations, directly buried or embedded in concrete
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids and meets the grounding requirements of UL 1072 and the NEC

Features: (cont'd)

- Triple Extrusion: The strand shield, EPR insulation and insulation shield are all extruded in one operation
- General Cable's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Cable meets cold impact at -40°C
- 105°C continuous operating temperature, wet or dry
- 140°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-93-639/WC-74, 5-46 kV Shielded Power Cable
- AEIC CS8 Specification for Shielded Power Cable, 5-46 kV
- UL 1072 Medium-Voltage Power Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable
- CSA C68.3

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1072
- IEC 60332-3 Category A

Compliances:

- UL Type MV-105, UL File # E90501
- UL Type MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW® Armored Power, 8 kV 133%, Shielded, 3/C VFD
UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC

CATALOG NUMBER	COND. SIZE	NO. OF COND.	INSULATION THICKNESS		NOMINAL O.D. OVER INSULATION		BARE GROUND	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		AMPACITY	
	AWG (kcmil)		mils	mm	INCHES	mm	AWG	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT	kg/1000 m	IN AIR ¹	DIRECT BURIAL ²

3/C WITH GROUND MC-HL OR MV-105, 140 MILS EPR, 8 kV 133% INSULATION LEVEL

9815.00603310	6 (7/W) (13.3 mm ²)	3	140	3.6	0.48	12.2	3 x #10	1.20	30.5	1.60	40.6	60	1.52	1.73	43.9	1,350	2,009	105	120
9815.00403310	4 (7/W) (21.2 mm ²)	3	140	3.6	0.53	13.5	3 x #10	1.29	32.8	1.70	43.2	60	1.52	1.83	46.5	1,600	2,381	135	155
9815.00203310	2 (7/W) (33.6 mm ²)	3	140	3.6	0.58	14.7	3 x #10	1.42	36.1	1.85	47.0	60	1.52	1.98	50.3	2,000	2,976	185	200
9815.00103308	1 (19/W) (42.4 mm ²)	3	140	3.6	0.62	15.7	3 x #8	1.52	38.6	1.93	49.0	60	1.52	2.06	52.3	2,275	3,386	210	225
9815.11003308	1/0 (19/W) (53.5 mm ²)	3	140	3.6	0.65	16.5	3 x #8	1.61	40.9	2.03	51.6	60	1.52	2.16	54.9	2,600	3,869	240	255
9815.21003308	2/0 (19/W) (67.4 mm ²)	3	140	3.6	0.69	17.5	3 x #8	1.66	42.2	2.14	54.4	60	1.52	2.27	57.7	2,950	4,390	275	290
9815.41003307	4/0 (19/W) (107 mm ²)	3	140	3.6	0.79	20.1	3 x #7	1.87	47.5	2.40	61.0	75	1.91	2.56	65.0	4,025	5,990	360	375
9815.25003306	250 (37/W) (127 mm ²)	3	140	3.6	0.85	21.6	3 x #6	2.06	52.3	2.59	65.8	75	1.91	2.75	69.9	4,600	6,846	400	410
9815.35003306	350 (37/W) (177 mm ²)	3	140	3.6	0.94	23.9	3 x #6	2.15	54.6	2.85	72.4	75	1.91	3.01	76.5	5,800	8,631	490	495
9815.50003305	500 (37/W) (253 mm ²)	3	140	3.6	1.06	26.9	3 x #5	2.44	62.0	3.19	81.0	85	2.16	3.37	85.6	7,800	11,608	600	590
9815.75003304	750 (61/W) (380 mm ²)	3	140	3.6	1.26	32.0	3 x #4	3.19	81.0	3.68	93.5	85	2.16	3.86	98.0	10,750	15,998	745	720
9815.10003304	1000 (61/W) (507 mm ²)	3	140	3.6	1.42	36.1	3 x #4	3.48	88.4	3.98	101.1	85	2.16	4.16	105.7	13,550	20,165	860	810

Dimensions and weights are nominal; subject to industry tolerances.

¹ In-air ampacities are per NEC Table 310.60(C)(71) for three insulated copper conductors rated 105°C, cabled with an overall covering and isolated in air at 40°C ambient temperature.

² Direct burial ampacities are per NEC Table 310.60(C)(83) for three insulated copper conductors rated 105°C, cabled within an overall covering and directly buried in earth at 20°C ambient earth temperature.



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CCW® Armored Power, 15 kV 100%, Shielded, 3/C

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Compact stranding per ASTM B496

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conductor stress control layer over the conductor per ICEA S-93-639 and UL 1072

Insulation:

- 175 mils Ethylene Propylene Rubber (EPR) insulation per ICEA S-93-639 and UL 1072

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer, free stripping from the insulation per ICEA S-93-639 and UL 1072

Shield:

- 5 mil annealed bare copper tape with 25% overlap

Phase Identification:

- Color-coded polymeric identification tape laid under the shield - black, red and blue

Grounding Conductor:

- Class B stranded bare annealed copper grounding conductor
- Sized in accordance with UL 1072 and NEC Article 250

Cable Assembly:

- Insulated and grounding conductors are cabled together with non-hygroscopic fillers when required
- Binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1072 and UL 1569
- CCW armor conductivity meets the grounding requirements of the NEC

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Medium-Voltage power cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use on feeders and branch circuits in industrial power distribution systems per NEC Articles 328 and 330
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed on metal racks, troughs, in raceways, in cable trays or secured to supports spaced not more than six feet apart
- Installed in both exposed and concealed work, wet or dry locations, directly buried or embedded in concrete
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids and meets the grounding requirements of UL 1072 and the NEC
- Triple Extrusion: The strand shield, EPR insulation and insulation shield are all extruded in one operation

Features: (cont'd)

- General Cable's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Cable meets cold impact at -40°C
- 105°C continuous operating temperature, wet or dry
- 140°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-93-639/WC-74, 5-46 kV Shielded Power Cable
- AEIC CS8 Specification for Shielded Power Cable, 5-46 kV
- UL 1072 Medium-Voltage Power Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1072
- IEC 60332-3 Category A

Compliances:

- UL Type MV-105, UL File # E90501
- UL Type MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Power, 15 kV 100%, Shielded, 3/C

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC

CATALOG NUMBER	COND. SIZE	NO. OF COND.	INSULATION THICKNESS		NOMINAL O.D. OVER INSULATION		BARE GROUND	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		AMPACITY	
	AWG (kcmil)		mils	mm	INCHES	mm	AWG	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT	kg/1000 m	IN AIR ¹	DIRECT BURIAL ²
3/C WITH GROUND MC-HL OR MV-105, 175 MILS EPR, 15 kV 100% INSULATION LEVEL																			
9825.00203106	2 (7/W) (33.6 mm ²)	3	175	4.4	0.65	16.5	6	1.61	40.9	1.96	49.8	60	1.52	2.05	52.1	2,077	3,091	185	200
9825.00103104	1 (19/W) (42.4 mm ²)	3	175	4.4	0.69	17.5	4	1.68	42.7	2.01	51.1	60	1.52	2.15	54.6	2,469	3,674	210	225
9825.11003104	1/0 (19/W) (53.5 mm ²)	3	175	4.4	0.72	18.3	4	1.78	45.2	2.10	53.3	60	1.52	2.24	56.9	2,760	4,107	240	255
9825.21003104	2/0 (19/W) (67.4 mm ²)	3	175	4.4	0.76	19.3	4	1.88	47.8	2.19	55.6	60	1.52	2.36	59.9	3,130	4,658	275	290
9825.41003103	4/0 (19/W) (107 mm ²)	3	175	4.4	0.86	21.8	3	2.09	53.1	2.45	62.2	75	1.91	2.61	66.3	4,290	6,384	360	375
9825.25003102	250 (37/W) (127 mm ²)	3	175	4.4	0.92	23.4	2	2.19	55.6	2.58	65.5	75	1.91	2.74	69.6	4,775	7,106	400	410
9825.35003102	350 (37/W) (177 mm ²)	3	175	4.4	1.01	25.7	2	2.45	62.2	2.85	72.4	75	1.91	3.01	76.5	6,132	9,125	490	495
9825.50003101	500 (37/W) (253 mm ²)	3	175	4.4	1.13	28.7	1	2.71	68.8	3.16	80.3	85	2.16	3.34	84.8	8,052	11,983	600	590
9825.750031110	750 (61/W) (380 mm ²)	3	175	4.4	1.31	33.3	1/0	3.12	79.2	3.67	93.2	85	2.16	3.85	97.8	11,098	16,516	745	720

Dimensions and weights are nominal; subject to industry tolerances.

¹ Ampacities in air are per NEC Table 310.60(C)(71) for an insulated three-conductor copper cable isolated in air with 105°C rated conductors at a 40°C ambient temperature.

² Direct burial ampacities are per NEC Table 310.60(C)(83) for three insulated copper conductors cabled within an overall covering, directly buried in earth with 105°C rated conductors at 20°C ambient earth temperature.



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CCW® Armored Power, 15 kV 133%, Shielded, 3/C

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Compact stranding per ASTM B496

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conductor stress control layer over the conductor per ICEA S-93-639 and UL 1072

Insulation:

- 220 mils Ethylene Propylene Rubber (EPR) insulation per ICEA S-93-639 and UL 1072

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer, free stripping from the insulation per ICEA S-93-639 and UL 1072

Shield:

- 5 mil annealed bare copper tape with 25% overlap

Phase Identification:

- Color-coded polymeric identification tape laid under the shield - black, red and blue

Grounding Conductor:

- Class B stranded bare annealed copper grounding conductor
- Sized in accordance with UL 1072 and NEC Article 250

Cable Assembly:

- Insulated and grounding conductors are cabled together with non-hygroscopic fillers when required
- Binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1072 and UL 1569
- CCW armor conductivity meets the grounding requirements of the NEC

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Medium-Voltage power cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use on feeders and branch circuits in industrial power distribution systems per NEC Articles 328 and 330
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed on metal racks, troughs, in raceways, in cable trays or secured to supports spaced not more than six feet apart
- Installed in both exposed and concealed work, wet or dry locations, directly buried or embedded in concrete
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids and meets the grounding requirements of UL 1072 and the NEC
- Triple Extrusion: The strand shield, EPR insulation and insulation shield are all extruded in one operation

Features: (cont'd)

- General Cable's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Cable meets cold impact at -40°C
- 105°C continuous operating temperature, wet or dry
- 140°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-93-639/WC-74, 5-46 kV Shielded Power Cable
- AEIC CS8 Specification for Shielded Power Cable, 5-46 kV
- UL 1072 Medium-Voltage Power Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1072
- IEC 60332-3 Category A

Compliances:

- UL Type MV-105, UL File # E90501
- UL Type MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Power, 15 kV 133%, Shielded, 3/C

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC

CATALOG NUMBER	COND. SIZE	NO. OF COND.	INSULATION THICKNESS		NOMINAL O.D. OVER INSULATION		BARE GROUND	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		AMPACITY	
	AWG (kcmil)		mils	mm	INCHES	mm	AWG	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT	kg/1000 m	IN AIR ¹	DIRECT BURIAL ²

3/C WITH GROUND MC-HL OR MV-105, 220 MILS EPR, 15 kV 133% INSULATION LEVEL

9835.00203106	2 (7/W) (33.6 mm ²)	3	220	5.6	0.76	19.3	6	1.82	46.2	2.15	54.6	60	1.52	2.28	57.9	2,473	3,680	185	200
9835.00103104	1 (19/W) (42.4 mm ²)	3	220	5.6	0.79	20.1	4	1.88	47.8	2.23	56.6	60	1.52	2.36	59.9	2,811	4,183	210	225
9835.11003104	1/0 (19/W) (53.5 mm ²)	3	220	5.6	0.83	21.1	4	1.96	49.8	2.32	58.9	75	1.91	2.48	63.0	3,190	4,747	240	255
9835.21003104	2/0 (19/W) (67.4 mm ²)	3	220	5.6	0.87	22.1	4	2.06	52.3	2.40	61.0	75	1.91	2.56	65.0	3,630	5,402	275	290
9835.41003103	4/0 (19/W) (107 mm ²)	3	220	5.6	0.97	24.6	3	2.26	57.4	2.62	66.5	75	1.91	2.79	70.9	4,435	6,600	360	345
9835.25003102	250 (37/W) (127 mm ²)	3	220	5.6	1.03	26.2	2	2.36	59.9	2.75	69.9	75	1.91	2.92	74.2	5,086	7,569	400	410
9835.35003102	350 (37/W) (177 mm ²)	3	220	5.6	1.12	28.4	2	2.61	66.3	3.03	77.0	85	2.16	3.21	81.5	6,445	9,591	490	495
9835.50003101	500 (37/W) (253 mm ²)	3	220	5.6	1.24	31.5	1	2.86	72.6	3.32	84.3	85	2.16	3.50	88.9	8,376	12,465	600	590
9835.750031110	750 (61/W) (380 mm ²)	3	220	5.6	1.41	35.8	1/0	3.25	82.6	3.80	96.5	85	2.16	3.98	101.1	11,431	17,011	745	720

Dimensions and weights are nominal; subject to industry tolerances.

¹ Ampacities in air are per NEC Table 310.60(C)(71) for an insulated three-conductor copper cable isolated in air with 105°C rated conductors at a 40°C ambient temperature.

² Direct burial ampacities are per NEC Table 310.60(C)(83) for three insulated copper conductors cabled within an overall covering, directly buried in earth with 105°C rated conductors at 20°C ambient earth temperature.



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CCW® Armored Power, 25 kV 100%, Shielded, 3/C

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Compact stranding per ASTM B496

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conductor stress control layer over the conductor per ICEA S-93-639 and UL 1072

Insulation:

- 260 mils Ethylene Propylene Rubber (EPR) insulation per ICEA S-93-639 and UL 1072

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer, free stripping from the insulation per ICEA S-93-639 and UL 1072

Shield:

- 5 mil annealed bare copper tape with 25% overlap

Phase Identification:

- Color-coded polymeric identification tape laid under the shield - black, red and blue

Grounding Conductor:

- Class B stranded bare annealed copper grounding conductor
- Sized in accordance with UL 1072 and NEC Article 250

Cable Assembly:

- Insulated and grounding conductors are cabled together with non-hygroscopic fillers when required
- Binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1072 and UL 1569
- CCW armor conductivity meets the grounding requirements of the NEC

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL 1072, orange
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Medium-Voltage power cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use on feeders and branch circuits in industrial power distribution systems per NEC Articles 328 and 330
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed on metal racks, troughs, in raceways, in cable trays or secured to supports spaced not more than six feet apart
- Installed in both exposed and concealed work, wet or dry locations, directly buried or embedded in concrete
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids and meets the grounding requirements of UL 1072 and the NEC
- Triple Extrusion: The strand shield, EPR insulation and insulation shield are all extruded in one operation

Features: (cont'd)

- General Cable's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Cable meets cold impact at -40°C
- 105°C continuous operating temperature, wet or dry
- 140°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-93-639/WC-74, 5-46 kV Shielded Power Cable
- AEIC CS8 Specification for Shielded Power Cable, 5-46 kV
- UL 1072 Medium-Voltage Power Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1072
- IEC 60332-3 Category A

Compliances:

- UL Type MV-105, UL File # E90501
- UL Type MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Power, 25 kV 100%, Shielded, 3/C

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC

CATALOG NUMBER	COND. SIZE	NO. OF COND.	INSULATION THICKNESS		NOMINAL O.D. OVER INSULATION		BARE GROUND	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		AMPACITY	
	AWG (kcmil)		mils	mm	INCHES	mm	AWG	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT	kg/1000 m	IN AIR ¹	DIRECT BURIAL ²

3/C WITH GROUND MC-HL OR MV-105, 260 MILS EPR, 25 kV 100% INSULATION LEVEL

9845.00103104	1 (19/W) (42.4 mm ²)	3	260	6.6	0.87	22.1	4	2.07	52.6	2.45	62.2	75	1.91	2.61	66.3	3,189	4,746	210	225
9845.11003104	1/0 (19/W) (53.5 mm ²)	3	260	6.6	0.90	22.9	4	2.15	54.6	2.53	64.3	75	1.91	2.69	68.3	3,536	5,262	240	255
9845.21003104	2/0 (19/W) (67.4 mm ²)	3	260	6.6	0.94	23.9	4	2.24	56.9	2.62	66.5	75	1.91	2.79	70.9	3,939	5,862	275	290
9845.41003103	4/0 (19/W) (107 mm ²)	3	260	6.6	1.04	26.4	3	2.51	63.8	2.93	74.4	75	1.91	3.10	78.7	5,122	7,622	360	345
9845.25003102	250 (37/W) (127 mm ²)	3	260	6.6	1.10	27.9	2	2.61	66.3	3.07	78.0	85	2.16	3.25	82.6	5,819	8,660	400	410
9845.35003102	350 (37/W) (177 mm ²)	3	260	6.6	1.19	30.2	2	2.82	71.6	3.32	84.3	85	2.16	3.50	88.9	7,115	10,588	490	495
9845.50003101	500 (37/W) (253 mm ²)	3	260	6.6	1.31	33.3	1	3.08	78.2	3.62	91.9	85	2.16	3.81	96.8	9,125	13,579	600	590

Dimensions and weights are nominal; subject to industry tolerances.

¹ In-air ampacities are per NEC Table 310.60(C)(71) for three insulated copper conductors rated 105°C, cabled with an overall covering and isolated in air at 40°C ambient temperature.

² Direct burial ampacities are per NEC Table 310.60(C)(83) for three insulated copper conductors rated 105°C, cabled within an overall covering and directly buried in earth at 20°C ambient earth temperature.



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CCW[®] Armored Power, 25 kV 133%/35 kV 100%, Shielded, 3/C

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC



GENERAL CABLE CCW[®]

Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Compact stranding per ASTM B496

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conductor stress control layer over the conductor per ICEA S-93-639 and UL 1072

Insulation:

- 345 mils Ethylene Propylene Rubber (EPR) insulation per ICEA S-93-639 and UL 1072

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer, free stripping from the insulation per ICEA S-93-639 and UL 1072

Shield:

- 5 mil annealed bare copper tape with 25% overlap

Phase Identification:

- Color-coded polymeric identification tape laid under the shield - black, red and blue

Grounding Conductor:

- Class B stranded bare annealed copper grounding conductor
- Sized in accordance with UL 1072 and NEC Article 250

Cable Assembly:

- Insulated and grounding conductors are cabled together with non-hygroscopic fillers when required
- Binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1072 and UL 1569
- CCW armor conductivity meets the grounding requirements of the NEC

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL 1072, orange
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Medium-Voltage power cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use on feeders and branch circuits in industrial power distribution systems per NEC Articles 328 and 330
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed on metal racks, troughs, in raceways, in cable trays or secured to supports spaced not more than six feet apart
- Installed in both exposed and concealed work, wet or dry locations, directly buried or embedded in concrete
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids and meets the grounding requirements of UL 1072 and the NEC
- Triple Extrusion: The strand shield, EPR insulation and insulation shield are all extruded in one operation

Features: (cont'd)

- General Cable's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Cable meets cold impact at -40°C
- 105°C continuous operating temperature, wet or dry
- 140°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-93-639/WC74, 5-46 kV Shielded Power Cable
- AEIC CS8 Specification for Shielded Power Cable, 5-46 kV
- UL 1072 Medium-Voltage Power Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable

Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1072
- IEC 60332-3 Category A

Compliances:

- UL Type MV-105, UL File # E90501
- UL Type MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Power, 25 kV 133%/35 kV 100%, Shielded, 3/C
 UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
 Direct Burial, ABS CWCMC

CATALOG NUMBER	COND. SIZE	NO. OF COND.	INSULATION THICKNESS		NOMINAL O.D. OVER INSULATION		BARE GROUND	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		AMPACITY	
	AWG (kcmil)		mils	mm	INCHES	mm	AWG	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT	kg/1000 m	IN AIR ¹	DIRECT BURIAL ²
3/C WITH GROUND MC-HL OR MV-105, 345 MILS EPR, 25 kV 133% AND 35 kV 100% INSULATION LEVEL³																			
9855.00103104	1 (19/W) (42.4 mm ²)	3	345	8.8	1.04	26.4	4	2.48	63.0	2.89	73.4	75	1.91	3.05	77.5	4,100	6,101	210	225
9855.11003104	1/0 (19/W) (53.5 mm ²)	3	345	8.8	1.07	27.2	4	2.56	65.0	2.98	75.7	75	1.91	3.14	79.8	4,500	6,697	240	255
9855.21003104	2/0 (19/W) (67.4 mm ²)	3	345	8.8	1.11	28.2	4	2.65	67.3	3.11	79.0	85	2.16	3.30	83.8	4,950	7,366	275	290
9855.41003103	4/0 (19/W) (107 mm ²)	3	345	8.8	1.22	31.0	3	2.88	73.2	3.41	86.6	85	2.16	3.60	91.4	6,200	9,227	360	345
9855.25003103	250 (37/W) (127 mm ²)	3	345	8.8	1.27	32.3	3	2.97	75.4	3.63	92.2	85	2.16	3.81	96.8	6,800	10,119	400	410
9855.35003102	350 (37/W) (177 mm ²)	3	345	8.8	1.36	34.5	2	3.20	81.3	3.76	95.5	85	2.16	3.94	100.1	8,000	11,905	490	495
9855.50003101	500 (37/W) (253 mm ²)	3	345	8.8	1.48	37.6	1	3.45	87.6	4.10	104.1	85	2.16	4.23	107.4	10,150	15,105	600	590

Dimensions and weights are nominal; subject to industry tolerances.

¹ In-air ampacities are per NEC Table 310.60(C)(71) for three insulated copper conductors rated 105°C, cabled with an overall covering and isolated in air at 40°C ambient temperature.

² Direct burial ampacities are per NEC Table 310.60(C)(83) for three insulated copper conductors rated 105°C, cabled within an overall covering and directly buried in earth at 20°C ambient earth temperature.

³ Catalog number 9855.00103104, 1 AWG, 3 conductor is only listed 25 kV 133% insulation level in accordance with UL 1072.



CCW[®] Armored Power, 35 kV 133%, Shielded, 3/C

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC



Product Construction:

Conductor:

- Bare annealed copper per ASTM B3
- Compact stranding per ASTM B496

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conductor stress control layer over the conductor per ICEA S-93-639 and UL 1072

Insulation:

- 420 mils Ethylene Propylene Rubber (EPR) insulation per ICEA S-93-639 and UL 1072

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer, free stripping from the insulation per ICEA S-93-639 and UL 1072

Shield:

- 5 mil annealed bare copper tape with 25% overlap

Phase Identification:

- Color-coded polymeric identification tape laid under the shield - black, red and blue

Grounding Conductor:

- Class B stranded bare annealed copper grounding conductor
- Sized in accordance with UL 1072 and NEC Article 250

Cable Assembly:

- Insulated and grounding conductors are cabled together with non-hygroscopic fillers when required
- Binder tape is applied over the cabled core

CCW Armor:

- Impervious, continuously welded and corrugated aluminum alloy sheath per UL 1072 and UL 1569
- CCW armor conductivity meets the grounding requirements of the NEC

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL 1072, orange
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Medium-Voltage power cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use on feeders and branch circuits in industrial power distribution systems per NEC Articles 328 and 330
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- Installed on metal racks, troughs, in raceways, in cable trays or secured to supports spaced not more than six feet apart
- Installed in both exposed and concealed work, wet or dry locations, directly buried or embedded in concrete
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides an impervious barrier to moisture, gas and liquids and meets the grounding requirements of UL 1072 and the NEC
- Triple Extrusion: The strand shield, EPR insulation and insulation shield are all extruded in one operation

Features: (cont'd)

- General Cable's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Cable meets cold impact at -40°C
- 105°C continuous operating temperature, wet or dry
- 140°C emergency rating
- 250°C short circuit rating

Specifications:

Design Adherence:

- ICEA S-93-639/WC74, 5-46 kV Shielded Power Cable
- AEIC CS8 Specification for Shielded Power Cable, 5-46 kV
- UL 1072 Medium-Voltage Power Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable

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- ICEA T-29-520 (210,000 BTU/hr)
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Compliances:

- UL Type MV-105, UL File # E90501
- UL Type MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW[®] Armored Power, 35 kV 133%, Shielded, 3/C

UL Type MC-HL or MV-105, EPR, 105°C, Cable Tray Use, Sunlight-Resistant
Direct Burial, ABS CWCMC

CATALOG NUMBER	COND. SIZE	NO. OF COND.	INSULATION THICKNESS		NOMINAL O.D. OVER INSULATION		BARE GROUND	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		AMPACITY	
	AWG (kcmil)		mils	mm	INCHES	mm	AWG	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm	LBS/1000 FT	kg/1000 m	IN AIR ¹	DIRECT BURIAL ²

3/C WITH GROUND MC-HL OR MV-105, 420 MILS EPR, 35 kV 133% INSULATION LEVEL

9875.11003104	1/0 (19/W) (53.5 mm ²)	3	420	10.7	1.24	31.5	4	2.91	73.9	3.41	86.6	85	2.16	3.59	91.2	5,300	7,887	240	255
9875.21003104	2/0 (19/W) (67.4 mm ²)	3	420	10.7	1.27	32.3	4	3.02	76.7	3.63	92.2	85	2.16	3.81	96.8	6,000	8,929	275	290
9875.41003103	4/0 (19/W) (107 mm ²)	3	420	10.7	1.38	35.1	3	3.23	82.0	3.80	96.5	85	2.16	3.98	101.1	7,100	10,566	360	345
9875.25003103	250 (37/W) (127 mm ²)	3	420	10.7	1.43	36.3	3	3.40	86.4	3.98	101.1	85	2.16	4.16	105.7	8,100	12,054	400	410
9875.35003102	350 (37/W) (177 mm ²)	3	420	10.7	1.52	38.6	2	3.51	89.2	4.10	104.1	85	2.16	4.29	109.0	9,000	13,393	490	495
9875.50003101	500 (37/W) (253 mm ²)	3	420	10.7	1.64	41.7	1	3.81	96.8	4.45	113.0	85	2.16	4.63	117.6	11,100	16,519	600	590

Dimensions and weights are nominal; subject to industry tolerances.

¹ In-air ampacities are per NEC Table 310.60(C)(71) for three insulated copper conductors rated 105°C, cabled with an overall covering and isolated in air at 40°C ambient temperature.

² Direct burial ampacities are per NEC Table 310.60(C)(83) for three insulated copper conductors rated 105°C, cabled within an overall covering and directly buried in earth at 20°C ambient earth temperature.



Phone: 888-593-3355
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CCW® Armored Cable Tool Kit

For Removal of CCW Armor Sheath
Including Accessories



Tool Kit Contents:

- 1 ea. Kett-Tool Metal Clad Cable Saw
- 12 pcs. 2" / 44 teeth Cutting Blades
- Cable Saw Spindle and Allen Wrenches
- 1 ea. MC Cable Guide
- 1 ea. Tubing and Pipe Cutter
- 1 ea. 12" V-Jaw Channel-Lock Pliers
- 1 ea. 10" Hacksaw Frame
- 3 ea. 10" / 24 teeth/in. Hacksaw Blades
- 1 ea. 10 ft. Tape Measure
- 1 ea. Utility Knife with Blades
- 1 ea. 5/16" Screwdriver
- 1 ea. Tool Box

CATALOG NUMBER	QUANTITY	DESCRIPTION	APPROXIMATE WEIGHT
9900.KS226	1	CCW TOOL KIT WITH 120 V AC, 60Hz ELECTRIC CUTTING SAW	22.0 LBS
9900.PS526	1	CCW TOOL KIT WITH 90 PSI PNEUMATIC CUTTING SAW	20.0 LBS
9900.15744	1	2", 44T REPLACEMENT CUTTING BLADES (12 BLADES PER PACK)	1.0 LBS
9900.27901	1	MC CABLE GUIDE	0.5 LBS

Technical Information

Section A General Technical Information

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
A005	Glossary	Jan. 2010
A025	Reference Standards	Jan. 2010
A050	Checklist for Specifications	Jan. 2010
A075	NEC and CSA Designations	Jan. 2010
A100	Common Color Sequence	Apr. 2011
A150	Metric Conversion Factors	Sept. 2010
A200	Reel Capacity Chart	Jan. 2012

Section B Conductor Data

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
B005	Conductor Reference	Jan. 2010
B025	Class B Conductors for General Wiring	Mar. 2012
B030	Class C Conductors for General Wiring	Feb. 2011
B035	Class H Conductors for General Wiring	Feb. 2011
B040	Class I Conductors for General Wiring	Mar. 2012
B045	Class K Conductors for General Wiring	Mar. 2012

Section C Material Properties

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
C005	Thermoplastic Jacket and Insulation Material Properties	Jan. 2010
C010	Thermoset Jacket and Insulation Material Properties	Jan. 2010

Section D Handling and Storage Recommendations

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
D005	Recommended Reel Handling Practices	Mar. 2012
D025	Recommended Cable Handling Practices	Oct. 2011
D050	Recommended Cable Storage Practices	Nov. 2011

Technical Information

Section E Cable Installation Guidelines

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
E005	Pre-Installation Instructions	Apr. 2010
E025	Installation — Overview and Checklist	Jan. 2011
E050	Installation — Feed-In Setups	Apr. 2010
E075	Installation — Conductor Maximum Pulling Tensions	Mar. 2012
E100	Installation — Training and Bending Limitations	Apr. 2010
E125	Installation — Maximum Sidewall Pressure	Jan. 2011

Section F Cable Testing

SPECIFICATION NO.	DESCRIPTION	REVISION DATE
F005	DC “HI-POT” Pre-Test Guidelines for MV Cables	Apr. 2010
F025	DC “HI-POT” Testing Guidelines for MV Cables	Apr. 2010
F075	Field Electrical “HI-POT” Testing Guidelines	Apr. 2010
F100	Emergency Overload Current Guidelines	Jan. 2010
F125	Short Circuit Current Calculation Overview	Jan. 2010
F150	Short Circuit Current for Copper Shields	Jan. 2010

Glossary

Abrasion Resistance: Ability of a wire, cable or material to resist surface wear.

Accelerated Aging: A test in which voltage, temperature, etc. are increased above normal operating values to obtain observable deterioration in a relatively short period of time. The plotted results give expected service life under normal conditions.

ACM: Aluminum conductor material.

Accelerator: A chemical additive that hastens a chemical reaction under specific conditions.

Admittance: The measure of the ease with which an alternating current flows in a circuit. The reciprocal of impedance.

AEIC: Association of Edison Illuminating Companies

Aerial Cable: A cable suspended in the air on poles or another overhead structure.

Aging: The change in properties of a material with time under specific conditions.

AIA: Aluminum Interlocked Armor.

Alloy: A metal formed by combining two or more different metals to obtain desirable properties.

Alternating Current: Electric current that continually reverses its direction. It is expressed in cycles per second (hertz or Hz).

Ambient Temperature: The temperature of the medium surrounding an object. Generally a lower temperature than the temperature at which the cable is operating.

American Wire Gauge (AWG): A standard North American system for designating wire diameter.

Ampacity: See Current Carrying Capacity.

Ampere: The unit of current. One ampere is the current flowing through one ohm of resistance at one volt potential.

Analog: A data format using continuous physical variables such as voltage amplitude or frequency variations.

Anneal (Soften): Relief of mechanical stress through heat and gradual cooling. Annealing copper renders it less brittle.

Armor: A protective metal covering commonly in the form of flexible interlocking aluminum or steel tape, steel wires or aluminum sheath.

ASTM: American Society for Testing and Materials.

Attenuation: The general term used to denote the decrease of power from one point to another. In fiber optics, the optical power loss per unit length is expressed logarithmically in decibels per kilometer (dB/km) at a specific wavelength.

Audio Frequency: The range of frequencies audible to the human ear. Usually 20-20,000 Hz.

AWM: Designation for appliance wiring material.

Balanced Circuit: One utilizing cables having two or more identical conductors with the same electromagnetic characteristics in relation to each other and to ground.

Band Marking: A continuous circumferential band applied to a conductor at regular intervals for identification.

Bandwidth: (1) The difference between the upper and lower limits of a given band of frequencies. Expressed in Hertz. (2) A measure of the maximum frequency range over which light intensity exiting a waveguide one kilometer in length can be varied before the attenuation varies 3 dB from the mean. The greater the bandwidth, the greater the information-carrying capacity. Bandwidth is expressed in Megahertz (MHz)–Kilometer (km).

Bending Radius: Radius of curvature that a cable can be safely bent without any adverse effects.

Binder: A spirally served tape used for holding assembled cable components in place awaiting subsequent manufacturing operations.

Bonding Conductor: An insulated or uninsulated conductor forming part of the cable assembly which is used for the purpose of connecting non-current carrying parts of electrical equipment to a system grounding conductor.

Braid: A fibrous or metallic group of filaments interwoven in cylindrical shape to form a covering over one or more wires.

Braid Angle: The smaller of the two angles formed by the shielding strand and the axis of the cable being shielded.

Braid Carrier: A spool or bobbin on a braider that holds one group of strands or filaments consisting of a specific number of ends. The carrier revolves during braiding operations.

Braid Ends: The number of strands used to make up one carrier. The strands are wound side-by-side on the carrier bobbin and lie parallel in the finished braid.

Breakdown Voltage: The voltage at which the insulation between two conductors breaks down.

B & S Gauge: The same as American Wire Gauge (AWG).

Buffer: A protective coating over an optical fiber.

Building Wire: A general term used for light and power wiring products, 1000 volts or less.

Bunch Stranding: A group of wires of the same diameter twisted together without a predetermined pattern. Used in flexible cords and cables.

Buried Cable: A cable installed directly in the earth without use of underground conduit. Also called "direct burial cable."

Butyl Rubber: A synthetic rubber with good insulating properties (i.e. low voltage cords).

Glossary

- Cable:** An insulated conductor, or group of individually insulated conductors in one assembly.
- Cabling:** The twisting together of two or more insulated conductors to form a cable.
- Capacitance:** The ratio of the electrostatic charge on a conductor to the potential difference between the conductors required to maintain that charge. Units expressed in Farads.
- Capacitive Coupling:** Electrical interaction between two conductors caused by the capacitance between them.
- Capacitive Reactance (Xc):** The opposition to alternating current due to the capacitance of the cable or circuit. Measured in ohms.
- CE Code, CEC:** Canadian Electrical Code
- Certified Test Report (CTR):** A report providing actual test data on a cable. Tests are normally conducted by the Quality Control Department to confirm that the product being shipped conforms to specifications.
- Characteristic Impedance:** The impedance that, when connected to the output terminals of a transmission line of any length, makes the line appear infinitely long. The ratio of voltage to current at every point along a transmission line on which there are no standing waves.
- Circular Mil (cmil):** The area of a circle one mil (.001") in diameter (7.854 x 10⁻⁷ sq in). Used in expressing wire cross-sectional area.
- Circuit Sizes:** A popular term for building wire sizes 14 through 10 AWG.
- Cladding:** (1) A method of applying a layer of metal over another metal whereby the junction of the two metals is continuously welded. (2) A low refractive index material that surrounds the core of an optical fiber causing the transmitted light to travel down the core and protects against surface contaminant scattering.
- Coaxial Cable:** A cable consisting of two cylindrical conductors with a common axis, separated by a dielectric.
- Cold Flow:** Permanent deformation of the insulation or jacket due to mechanical force or pressure (not due to heat softening).
- Color Code:** A system for circuit identification through use of solid colors and contrasting tracers.
- Composite Cable:** One containing more than one type or gauge size of conductors (e.g. power and control conductors in one assembly).
- Compound:** An insulating or jacketing material made by mixing two or more polymeric ingredients.
- Concentric Stranded Conductors:** Manufactured to ASTM, ICEA and CSA standards. The most common fixed installation type conductors are: 1) Round—no diameter reduction; 2) Compressed—approximately 3% diameter reduction; 3) Compact—approximately 10% diameter reduction.
- Concentric Stranding:** A central wire surrounded by one or more layers of helically wound strands in a fixed round geometric arrangement.
- Concentricity:** The measurement of the location of the center of the conductor with respect to the geometric center of the surrounding insulation.
- Conductivity:** The capacity of a material to carry electrical current—usually expressed as a percentage of copper conductivity (copper being 100%).
- Conductor:** An uninsulated wire suitable for carrying electrical current.
- Conductor Shield:** An extrusion of black semi-conducting thermoses material over the conductor to provide a smooth interface with the insulation for even distribution of electrical stress.
- Conduit (Electrical Raceway):** A tube or pipe in which insulated wires and cables are run.
- Connector:** A device used to physically and electrically connect two or more conductors. Also used to physically connect cable to equipment.
- Continuity Check:** A test to determine whether electrical current flows continuously throughout the length of a single wire or individual wires in a cable.
- Continuous Vulcanization:** Simultaneous extrusion and vulcanization of rubber-like (thermoset) coating materials. Often referred to as CV.
- Control Cable:** A multi-conductor cable made for operation in control of signal circuits.
- Copolymer:** A compound resulting from the polymerization of two different monomers.
- Copperweld®:** The trade name of Flexo Wire Division (Copperweld Steel Corp.) for its copper-clad steel conductors.
- Cord:** A small, flexible, insulated wire or cable.
- Core:** In cables, a component or assembly of components over which additional components (shield, sheath, etc.) are applied.
- Corona:** A discharge due to ionization of air around a conductor due to a potential gradient exceeding a certain critical value.
- Coverage:** The percent of completeness with which a metal serving covers the underlying surface.
- CPE:** Chlorinated polyethylene can be used as either a thermoplastic or thermoset. It is a tough chemical- and oil-resistant material and makes an excellent jacket for industrial control cable. As a thermoset, it can be used as an oil-resistant cord jacket. Typical temperature ratings range from -35°C to 90°C. Other outstanding properties include low water absorption and super crush resistance, which are important attributes in industrial control applications.
- Creep:** The dimensional change with time of a material under a mechanical load.

Glossary

- Cross-linked:** Inter-molecular bonds between long-chain thermoplastic polymers by chemical or electron bombardment means. The properties of the resulting thermosetting material are usually improved (e.g. XLPE).
- Crosstalk:** Signal interference between nearby conductors caused by pickup of stray energy.
- CSA:** Canadian Standards Association
- Current Carrying Capacity (Ampacity):** The maximum current an insulated conductor can safely carry without exceeding its insulation and jacket temperature limitations.
- Cut-Through Resistance:** The ability of a material to withstand cutting from a sharp edge or small radius under pressure.
- Decibel (dB):** A unit to express differences of power level. Used to express power gain in amplifiers or power loss in passive circuits or cables. The units in which the ratio of two power levels, P_1 and P_2 , are expressed. The ratio in dB is given as $-10 \log_{10} (P_1/P_2)$.
 $P_2 \rightarrow \square \rightarrow P_1$
- Delay Line:** A cable made to provide very low velocity of propagation with long electrical delay for transmitted signals.
- Derating Factor:** A factor used to reduce the current carrying capacity of a wire when used in environments other than that for which the value was established.
- Dielectric:** Any insulating material between two conductors that permits electrostatic attraction and repulsion to take place across it.
- Dielectric Constant (K):** The ratio of the capacitance of a condenser with dielectric between the electrodes to the capacitance when air is between the electrodes. Also called Permittivity and Specific Inductive Capacity (SIC).
- Dielectric Strength:** The voltage which an insulation can withstand before breakdown occurs. Usually expressed as a voltage gradient (such as volts per mil).
- Dielectric Test:** A test in which a voltage higher than the rated voltage is applied for a specified time to determine the adequacy of the insulation under normal conditions. Sometimes called a "Hi-Pot" test (high potential).
- Digital:** A data format that uses discrete or separate physical levels to contain information.
- Direct Burial Cable:** A cable installed directly in the earth.
- Direct Current:** An electric current that flows in only one direction.
- Direction of Lay:** The lateral direction in which the strands of a conductor run over the top of the cable conductor as they recede from an observer looking along the axis of the conductor or cable. Also applies to twisted cable.
- Dissipation Factor:** The tangent of the loss angle of the insulating material. (Also referred to as loss tangent, $\tan \delta$ and approximate power factor.)
- Drain Wire:** The uninsulated wire in contact with an electrostatic shield throughout its length, in an instrumentation or control cable, used to discharge unwanted signals. Also provides a means of terminating laminated shields. Sometimes used to describe the metallic shielding wires of a power cable insulation shield.
- Drawing:** In wire manufacturing, pulling the metal through a die or series of dies to reduce diameter to a specified size.
- Earth:** British terminology for zero-reference "ground."
- Eccentricity:** Like concentricity, a measure of the center of a conductor's location with respect to the circular cross section of the insulation. Expressed as a percentage of displacement of one circle within the other.
- EEMAC:** Electrical and Electronic Manufacturers Association of Canada (U.S. counterpart is NEMA).
- Elastomer:** A rubber-like substance. Any material that will return to its original dimensions after being stretched or distorted.
- Electrostatic Shield:** A copper or laminated aluminum/Mylar[®] tape wrap around a signal or instrumentation circuit (pair, triad, etc.) to protect from the electric field radiated by a voltage source. The grounded shield intercepts static interference and carries it off to ground.
- Elongation:** The fractional increase in length of material stressed in tension.
- EMI:** Abbreviation for electromagnetic interference.
- EMRC:** Energy Mines and Resources Canada
- EPDM:** Ethylene-propylene-diene monomer rubber. A material with good electrical insulating properties.
- EPR:** Ethylene-propylene copolymer rubber. A material with good electrical insulating properties.
- Equal Load Sharing:** An even distribution of current between the parallel cables in a power circuit.
- Equilay:** See Unilay: More than one layer of helically laid wires with the length of the lay the same for each layer.
- Farad:** A unit of electrical capacity.
- Fatigue Resistance:** Resistance to metal crystallization which leads to conductors or wires breaking from flexing.
- Ferrous:** Composed of and/or containing iron. A ferrous metal exhibits magnetic characteristics (e.g. steel armor).
- FEP:** Fluorinated ethylene propylene insulated wire (see Teflon[®]).
- Fiber:** A single, separate optical transmission element characterized by core and cladding.
- Fiber Optics:** Light transmission through optical fibers for communication and signaling.

Glossary

Filled Cable: Cable construction in which the cable core is filled with a material that will prevent moisture or gasses from entering or passing through the cable.

Filler: 1) A material used in multi-conductor cables to occupy large interstices formed by the assembled conductors; 2) An inert substance added to a compound to improve properties.

Flat Cable: A cable with two essentially flat surfaces (e.g., NMD90).

Flat Conductor: A wire having a rectangular cross section as opposed to round or square conductors.

Flame Resistance: The ability of a material not to propagate flame once the heat source is removed (see FT1).

Flammability: The measure of the material's ability to support combustion.

Flex Life: The measurement of the ability of a conductor or cable to withstand repeated bending before breaking.

Flexibility: The ease with which a cable may be bent without sustaining damage.

FT1: One of several CSA flame test designations for wires and cables which pass the C22.2 No. 0.3 test requirements. (Other designations include FT2, FT4, etc.).

Fusion Splice: A splice accomplished by the application of localized heat sufficient to fuse or melt the ends of two lengths of optical fiber, forming a continuous single fiber.

Gauge: A term used to denote the physical size of a wire.

GND: Abbreviation for ground.

Graded-Index: A type of optical fiber in which the refractive index of the core is in the form of a parabolic curve, decreasing toward the cladding. This type of fiber provides high bandwidth capabilities.

Ground (GND): 1) A conducting connection between an electrical circuit and the earth, or other large conducting body, to serve as an earth thus making a complete electrical circuit; 2) Term used for non-current carrying conductor in a cable (see Bonding Conductor).

Halogen: A term used to identify any of the four elements chlorine, fluorine, bromine and iodine, grouped together because their chemical properties are similar.

Hard Drawn Copper Wire: Copper wire that has not been annealed after drawing.

Heat Shock: A test to determine stability of a material by sudden exposure to a high temperature for a short period of time.

Henry: The unit of inductance.

Hertz (Hz): A term replacing cycles-per-second as an indication of frequency.

Hi-Pot (High Potential): A test designated to determine the highest voltage that can be applied to a conductor without breaking down the insulation (see Dielectric Test).

High Voltage (HV): Generally, a wire or cable with an operating voltage of over 600 volts.

Hook-Up Wire: A wire used for low current, low voltage (under 1000 volts) applications within enclosed electronic equipment.

Hygroscopic: A material capable of absorbing moisture from the air.

Hypalon®: DuPont's trade name for their chlorosulfonated polyethylene, an ozone-resistant synthetic rubber.

ICEA (formerly IPCEA): Insulated Cable Engineers Association.

IEEE: Institute of Electrical and Electronics Engineers.

Impact Strength: A test for determining the mechanical punishment a cable can withstand without physical or electrical breakdown by impacting with a given weight, dropped a given distance, in a controlled environment.

Impedance: The total opposition that a circuit offers to the flow of alternating current or any other varying current at a particular frequency. It is a combination of resistance R and reactance X, measured in ohms.

Inductance: The property of a circuit or circuit element that opposes a change in current flow, thus causing current changes to lag behind voltage changes. It is measured in henrys.

Insulation: A material having good dielectric properties permitting close assembly of conductors in cable and equipment.

Insulation Level: A designation used to identify the insulation thickness required to protect a high voltage cable under ground fault conditions. Expressed as a percentage (e.g. 100% level, 133% level).

Insulation Shield (HV Cable): A two-part shield consisting of a non-metallic component and a metallic component. The first component is an extrusion of black semi-conducting thermoset material over the insulation, which provides uniform radial stress distribution across the insulation. The second component is a metallic shield which is typically copper tape or wire that functions as a bonding (grounding) conductor and/or a neutral conductor. The metallic shield also serves to conduct ground fault current in the event of insulation failure. See also Drain Wire.

Insulation Stress: High voltage stress which causes molecular separation in the insulation at sharp projections in the conductor. Controlled by conductor and insulation shielding, called a stress relief shield. Measured in volts per mil.

Interaxial Spacing: Center-to-center conductor spacing.

Interstices: Voids or valleys between individual strands in a conductor or between insulated conductors in a multi-conductor cable (interstitial spaces).

Glossary

- Irradiation:** In insulations, the exposure of the material to high energy emissions for the purpose of favorably altering the molecular structure by crosslinking.
- Jacket:** An outer covering, usually non-metallic, mainly used for protection against the environment.
- kcmil:** One thousand circular mils (MCM).
- kilo:** A prefix denoting 1000 (10^3).
- kV:** Kilovolt (1000 volts).
- Laminated Tape:** A tape consisting of two or more layers of different materials bonded together (e.g. aluminum/Mylar®).
- Lay:** The length measured along the axis of a wire or cable required for a single strand (in stranded wire) or conductor (in cable) to make one complete turn about the axis of the conductor or cable.
- Lay Direction:** The twist in the cable as indicated by the top strands while looking along the axis of the cable away from the observer. Described as "right hand" or "left hand."
- Leakage Current:** The undesirable flow of current through or over the surface of an insulation.
- Line Drop (Voltage Drop):** A voltage loss occurring between any two points in a power circuit. Such loss, or drop, is due to the resistance, reactance or leakage of the circuit, type of cable and configuration.
- Line Voltage:** The value of the potential existing on a supply or power line. Rated voltage of cables.
- LOCA:** Abbreviation for loss of coolant accident, a system malfunction associated with nuclear generating stations.
- Longitudinal Shield:** A tape shield, flat or corrugated, applied longitudinally with the axis of the core being shielded.
- Loss Factor:** The product of the dissipation and dielectric constant of an insulating material.
- µA. Microampere:** One-millionth of an ampere (10^{-6}).
- mA. Milliampere:** One-thousandth of an ampere (10^{-3}).
- Magnetic Noise:** Caused by current frequency. An AC powerline creates a magnetic field around that cable, this magnetic field causes the magnetic noise in neighboring control or instrumentation circuits.
- MCM:** One thousand circular mils (kcmil).
- meg or mega:** A prefix denoting 1,000,000 (10^6).
- Megarad:** A unit for measuring radiation dosage.
- Messenger:** The linear supporting member, usually a high-strength steel wire, used as the supporting element of a suspended aerial cable. The messenger may be an integral part of the cable, or exterior to it.
- Mho:** The unit of conductivity. The reciprocal of an ohm.
- micro:** A prefix denoting one-millionth (10^{-6}).
- micron:** (m) Millionth of a meter = 10^{-6} meter.
- Mil:** A unit of length equal to one-thousandth of an inch (.001"). Common unit for insulation thickness.
- Milli:** A prefix denoting one-thousandth (10^{-6}).
- Modulus of Elasticity:** The ratio of stress to strain in an elastic material.
- Moisture Absorption:** The amount of moisture, in percentage, that a material will absorb under specified conditions.
- Moisture Resistance:** The ability of a material to resist absorbing moisture from the air or when immersed in water.
- Multi-Conductor Cable:** A cable consisting of two or more conductors, either cabled or laid in a flat parallel construction, with or without a common overall covering.
- Multi-Plexed Conductors:** Three or more completed cables together without fillers or common overall jacket. (Triplexed, 3-1[C]; Quadruplet, 4-1[C])
- Mutual Capacitance:** Capacitance between two conductors when all other conductors, including ground, are connected together.
- Mylar:** DuPont trade name for a polyester material.
- Nano:** A numerical prefix denoting one-billionth (10^{-9}).
- National Electrical Code (NEC):** A U.S. consensus standard published by the National Fire Protection Association (NFPA) and incorporated in OSHA regulations. (Canadian Counterpart is the CE Code).
- NEMA:** National Electrical Manufacturers Association. (Canadian counterpart is EEMAC).
- Neoprene:** A synthetic rubber with good resistance to oil, chemicals and flame. Also called polychloroprene.
- Nomex®:** DuPont trademark for a temperature-resistant, flame-retardant nylon.
- Non Hygroscopic:** A material incapable of taking up or absorbing moisture from the air.
- Nylon®:** An abrasion-resistant thermoplastic with good chemical resistance. A DuPont registered trademark.
- OHM:** The electrical unit of resistance.
- OSHA:** Abbreviation for the U.S. Occupational Safety and Health Act.
- Overlap:** The amount the trailing edge laps over the leading edge of a spiral tape wrap.
- Oxygen Index:** Percentage of oxygen necessary to support combustion in a gas mixture. Flame-retardant materials have a higher oxygen index.
- Pair:** Two insulated wires of a single circuit twisted together or laid parallel.
- Parallel Cable:** Two or more cables used to share the current in heavily loaded power circuits which permits the use of smaller conductors.

Glossary

- Percentage Conductivity:** Conductivity of a material expressed as a percentage of that of copper. Also used to indicate ratio of conductance between the phase conductor and the neutral in power cables.
- Pick:** Distance between two adjacent crossover points of braid filaments. The measurement in picks per inch indicates the degree of coverage.
- pico:** A prefix denoting one-millionth of one-millionth (10^{-12}).
- Pitch:** In flat cable, the nominal distance between the index edges of two adjacent conductors.
- Pitch Diameter:** Diameter of a circle passing through the center of the conductors in any layer of a multi-conductor cable.
- Plastic Deformation:** Change in dimensions under load that is not recovered when the load is removed.
- Plasticizer:** A chemical agent added to plastics to make them softer and more pliable.
- Plenum Cable:** Cable approved for installation in plenums (e.g., suspended ceiling) without the need for conduit.
- Polyester:** Polyethylene terephthalate which is used extensively in the production of a high-strength, moisture-resistant film used as a cable core wrap (see Mylar®).
- Polyethylene (PE):** A thermoplastic material having excellent electrical and physical properties.
- Polymer:** A material of high molecular weight formed by the chemical union of monomers.
- Polyolefin:** A family of thermoplastics based upon the unsaturated hydrocarbons known as olefins. When combined with butylene or styrene polymers, they form compounds such as polyethylene and polypropylene.
- Polypropylene (PPE):** A thermoplastic similar to polyethylene but stiffer and having a higher softening point (temperature).
- Polyurethane/PUR:** This thermoplastic material is used primarily as a cable jacket material. It has excellent oxidation, oil and ozone resistance. Some formulations also have good flame resistance. It is a hard material with excellent abrasion resistance. It has outstanding "memory" properties, making it an ideal jacket material for retractile cords.
- Polyvinyl Chloride (PVC):** A general-purpose thermoplastic used for low voltage wire and cable insulation, and for jackets.
- Power Factor:** The ratio of resistance to impedance. The ratio of the actual power of an alternating current to apparent power. Mathematically, the cosine of the angle between the voltage applied and the current resulting.
- Primary Insulation:** The first layer of non-conductive material applied over a conductor, whose prime function is to act as electrical insulation.
- Pulling Eye:** A device fastened to a cable to which a hook may be attached in order to pull the cable.
- Quad:** Four insulated wires of a single circuit.
- REA:** Rural Electrification Administration. A branch of the U.S. Department of Agriculture.
- Reactance:** The opposition offered to the flow of alternating current by inductance or capacitance of a component or circuit.
- Reel Drum Diameter:** Diameter of the drum (or hub) of the reel.
- Reel Flange Diameter (Reel Height):** Diameter of the reel flanges.
- Reel Traverse:** Width of space between reel flanges.
- Reel Width:** Overall width of reel.
- Ridge Marker:** One or more ridges running laterally along the outer surface of an insulated wire or cable for purposes of identification.
- Root Mean Square (RMS):** The effective value of an alternating current or voltage.
- Rope Lay Conductor:** A conductor composed of a central core surrounded by one or more layers of helically laid groups of wires used in portable cables.
- Rubber:** A general term used to describe wire insulation and jackets made of thermosetting elastomers, such as natural or synthetic rubbers, EPR, neoprene, Hypalon, butyl rubber and others.
- SBR:** A copolymer of styrene and butadiene. Also GR-S or Buna-S. Most commonly used type of synthetic rubber.
- Self-Extinguishing:** The characteristic of a material whose flame is extinguished after the igniting flame is removed.
- Semi-Conductor:** In wire industry terminology, a material possessing electrical conductivity that falls somewhere between that of conductors and insulators. Usually made by adding carbon particles to an insulator (e.g. conductor shield and insulation shield). Not the same as semi-conductor materials such as silicon, germanium, etc. used for making transistors and diodes.
- Separator:** Pertaining to wire and cable, a layer of insulating material such as textile paper, Mylar®, etc. which is placed between a conductor and its dielectric, between a cable jacket and the components it covers or between various components of a multi-conductor cable. It can be utilized to improve stripping qualities, flexibility or can offer additional mechanical or electrical protection to the components it separates.
- Served Wire Armor (SWA):** Spiral wrap of galvanized steel wires applied around a cable to afford mechanical protection and increase the cable pulling tension characteristics (mineshaft, submarine cable, etc.). Also used to denote steel wire armor.
- Sheath:** The outer covering or jacket of a multi-conductor cable. Usually non-metallic.

Glossary

- Shield (Electrostatic):** In cables, a metallic layer placed around a conductor or group of conductors to prevent electrostatic interference between the enclosed wires and external fields. Also see Insulation Shield.
- Shrink Tubing:** Tubing which has been extruded, crosslinked and mechanically expanded which, when reheated, will return to its original diameter.
- SIA:** Steel Interlocked Armor.
- Side Wall Bearing Pressure (SWBP):** A term used in reference to the pressure on a cable which is being pulled around a curved surface under tension. If excessive, SWBP can damage cable components and reduce the life of the cable.
- Signal Cable:** A cable designed to carry current of usually less than one ampere per conductor to operate signal circuit devices.
- Silicone:** A material made from silicone and oxygen. Can be in thermosetting elastomer or liquid form. The thermosetting elastomer form is noted for high heat resistance.
- Skin Effect:** The tendency of alternating current to concentrate and to travel only on the surface of a conductor. Tendency increases with increase in frequency.
- Sleeving:** An extruded tube.
- Spark Test:** A test designed to locate imperfections (usually pin-holes) in the insulation of a wire or cable by application of voltage for a very short period of time while the wire is being drawn through the electrode field.
- Specific Gravity:** The ratio of the density (mass per unit volume) of a material to that of water.
- Specific Inductive Capacity (SIC):** Same as dielectric constant. See Dielectric Constant.
- Tank Test:** A voltage insulation test in which the insulated wire or cable is submerged in water and voltage is applied between the conductor and water serving as ground. Shielded cables are generally not tank tested due to the possibility of introducing contaminants on the outer surface of the insulation.
- Teflon®:** DuPont Company trademark for fluorocarbon resins. See FEP and TFE.
- Temperature Rating:** The maximum temperature at which an insulating material may be used in continuous operation without loss of its basic properties (i.e. operating, overload, short circuit). The minimum temperature for safe handling.
- Tensile Strength:** The pull stress required to break a given specimen. Measured in pounds per square inch. Also referred to as Ultimate Tensile Strength.
- TFE:** Tetrafluoroethylene. A thermoplastic material with good electrical insulating properties and chemical and heat resistance.
- Thermoplastic:** A material that can be softened repeatedly by heating and hardened by cooling through a temperature range characteristic of the plastic, and that in the softened state can be shaped by molding or extrusion.
- Thermoset:** A material that has been vulcanized by heat or other means and is substantially infusible and insoluble.
- Three-Conductor Cable:** Three insulated conductors assembled with other necessary cable components (shield, filler, etc.) to form a core, protected by an overall jacket.
- Tinned Copper:** Tin coating added to copper to aid in soldering and inhibit corrosion.
- Tray:** A cable tray system is a unit or assembly of units or sections, and associated fittings, made of non-combustible materials forming a rigid structural system used to support cables. Cable tray systems (previously termed Continuous Rigid Cable Supports) include ladders, troughs, channels, solid bottom trays and similar structures.
- Tray Cable:** A factory-assembled multi-conductor or multi-pair control, signal or power cable specifically approved under the Canadian Electrical Code for installation in trays.
- Triad:** Three insulated wires of a single circuit forming a unit. (Two or more units are cabled to form a multi-triad cable.)
- Triplexed Cable:** Three individual cables twisted together without fillers or a common overall jacket.
- UL:** Underwriters Laboratories. A non-profit independent organization, which operates a listing service for electrical and electronic materials and equipment. (Canadian counterpart is CSA).
- UHF:** Abbreviation for ultra high frequency, 300 to 3,000 MHz.
- Unilay:** A conductor with more than one layer of helically laid wires with the direction of lay and length of lay the same for all layers.
- Velocity of Propagation:** The speed of an electrical signal down a length of cable compared to speed in free space expressed as a percent. It is the reciprocal of the square root of the dielectric constant of the cable insulation.
- VHF:** Abbreviation for very high frequency, 30 to 300 MHz.
- Voltage:** The term most often used in place of electromotive force, potential, potential difference or voltage drop to designate the electric pressure that exists between two points and is capable of producing a current when a closed circuit is connected between two points.

Glossary

Voltage Rating: 1) The highest voltage that can be continuously applied to a wire in conformance with the standard or specification; 2) The “system” voltage printed on the wire or cable.

Volume Resistivity: The electrical resistance between opposite faces of a one cm. cube of insulating material, commonly expressed in ohms-meter.

Vulcanization: An irreversible process during which a compound, through a change in its chemical structure (e.g. cross-linking), becomes less plastic and more resistant to swelling by organic liquids and elastic properties are conferred, improved or extended over a greater range of temperatures.

VW-1: A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test, formerly designated FR-1. Similar to CSA designation FT1.

Watt: A unit of electric power.

Wicking: The longitudinal flow of a liquid in a wire or cable due to capillary action.

Wire: A conductor; bare or insulated.

Yield Strength: The minimum stress at which a material will start to physically deform without further increase in load.

Reference Standards

AAR S-501: Specification for Wire and Cables

AAR 581.3: Specification for Single Conductor, Clean Stripping Rubber Insulated, 0–600 Volts, Neoprene Jacketed Cable for Locomotive and Car Equipment

AAR 589: Specification for Single Conductor Chlorosulfonated Polyethylene Integral Insulated-Jacketed, 0-300 V, 0-600 V Cable for Locomotive and Car Equipment

AEIC CS 1: Specifications for Solid-Type Impregnated-Paper-Insulated Metallic Sheathed Cable

AEIC CS2: Specifications for Impregnated-Paper and Laminated Paper-Polypropylene Insulated Cable, High-Pressure Pipe-Type

AEIC CS3: Specifications for Impregnated-Paper-Insulated, Metallic Sheathed Cable, Low Pressure Gas-Filled Type

AEIC CS4: Specifications for Impregnated-Paper-Insulated Low and Medium Pressure Self Contained Liquid Filled Cable

***AEIC CS5:** Specifications for Thermoplastic and Crosslinked Polyethylene Insulated Shielded Power Cables Rated 5 Through 69 kV

***AEIC CS6:** Specifications for Ethylene Propylene Rubber Insulated Shielded Power Cables Rated 5 Through 69 kV

AEIC CS7: Specifications for Crosslinked Polyethylene Insulated Shielded Power Cables Rated 46 Through 138 kV

AEIC CS8: Specification for Extended Dielectric, Shielded Power Cables Rated 5 through 46 kV

ANSI C2: National Electrical Safety Code

ANSI MC96.1: Thermocouple Extension Wire Calibration

ANSI N45.2: Packaging, Shipping, Receiving, Storage and Handling of Items for Nuclear Power Plants

ASTM B 1: Standard Specification for Hard-Drawn Copper Wire

ASTM B 2: Standard Specification for Medium-Hard-Drawn Copper Wire

ASTM B 3: Standard Specification for Soft or Annealed Copper Wire

ASTM B 8: Standard Specification for Concentric-Lay Stranded Copper Conductors, Hard, Medium-Hard or Soft

ASTM B 33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes

ASTM B 105: Standard Specification for Hard-Drawn Copper Alloy Wires for Electrical Conductors

ASTM B 170: Standard Specification for Oxygen-Free Electrolytic Copper

ASTM B 172: Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members, for Electrical Conductors

ASTM B 173: Standard Specification for Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members, for Electrical Conductors

ASTM B 174: Standard Specification for Bunch-Stranded Copper Conductors for Electrical Conductors

ASTM B 189: Standard Specification for Lead-Coated and Lead-Alloy-Coated Soft Copper Wire for Electrical Purposes

ASTM B 193: Standard Test Method for Resistivity of Electrical Conductor Materials

ASTM B 226: Standard Specification for Cored, Annular, Concentric-Lay-Stranded Copper Conductors

ASTM B 227: Standard Specification for Hard-Drawn Copper-Clad Steel Wire

ASTM B 228: Standard Specification for Concentric-Lay-Stranded Copper-Clad Steel Conductors

ASTM B 229: Standard Specification for Concentric-Lay-Stranded Copper and Copper-Clad Steel Composite Conductors

ASTM B 230: Standard Specification for Aluminum 1350-H19 Wire for Electrical Purposes

ASTM B 230M: Standard Specification for Aluminum 1350-H19 Wire for Electrical Purposes [Metric]

ASTM B 231: Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors

ASTM B 231 M: Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors [Metric]

ASTM B 232: Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated Steel-Reinforced (ACACARSR)

ASTM B 232M: Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated Steel-Reinforced (ACSR) [Metric]

ASTM B 233: Standard Specification for Aluminum 1350 Drawing Stock for Electrical Purposes

ASTM B 246: Standard Specification for Tinned Hard-Drawn and Medium-Hard-Drawn Copper Wire for Electrical Purposes

ASTM B 258: Standard Specification for Standard Nominal Diameters and Cross-Sectional Areas of AWG Sizes of Solid Round Wires Used as Electrical Conductors

ASTM B 263: Standard Test Method for Determination of Cross-Sectional Area of Stranded Conductors

ASTM B 286: Standard Specification for Copper Conductors for Use in Hookup Wire for Electronic Equipment

ASTM B 298: Standard Specification for Silver-Coated Soft or Annealed Copper Wire

ASTM B 324: Standard Specification for Nickel-Coated Soft or Annealed Copper Wire

ASTM B 341: Standard Specification for Aluminum-Coated (Aluminized) Steel Core Wire for Aluminum Conductors, Steel-Reinforced (ACSR/AZ)

ASTM B 341M: Standard Specification for Aluminum-Coated (Aluminized) Steel Core Wire for Aluminum Conductors, Steel-Reinforced (ACSR/AZ) [Metric]

ASTM B 355: Standard Specification for Nickel-Coated Soft or Annealed Copper Wire

ASTM B 397: Standard Specification for Concentric-Lay-Stranded Aluminum-Alloy 5005-H19 Conductors

* These standards or specifications have been rescinded by their organizations.

Reference Standards

ASTM B 398: Standard Specification for Aluminum-Alloy 6201-T81 Wire for Electrical Purposes

ASTM B 398M: Standard Specification for Aluminum-Alloy 6201-T81 Wire for Electrical Purposes [Metric]

ASTM B 399: Standard Specification for Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors

ASTM B 399M: Standard Specification for Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors [Metric]

ASTM B 400: Standard Specification for Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors

ASTM B 401: Standard Specification for Compact Round Concentric-Lay-Stranded Aluminum Conductors, Steel-Reinforced (ACSR/COMP)

ASTM B 416: Standard Specification for Concentric-Lay-Stranded Aluminum-Clad Steel Conductors

ASTM B 452: Standard Specification for Copper-Clad Steel Wire for Electronic Application

ASTM B 470: Standard Specification for Bonded Copper Conductors for Use in Hookup Wires for Electronic Equipment

ASTM B 496: Standard Specification for Compact Round Concentric-Lay-Stranded Copper Conductors

ASTM B 498: Standard Specification for Zinc-Coated (Galvanized) Steel Core Wire for Aluminum Conductors, Steel-Reinforced (ACSR)

ASTM B 498M: Standard Specification for Zinc-Coated (Galvanized) Steel Core Wire for Aluminum Conductors, Steel-Reinforced (ACSR) [Metric]

ASTM B 500: Standard Specification for Zinc-Coated (Galvanized), Zinc-5% Aluminum Mischmetal Alloy-Coated, and Aluminum-Coated (Aluminized) Stranded Steel Core for Aluminum Conductors, Steel-Reinforced (ACSR)

ASTM B 501: Standard Specification for Silver-Coated, Copper-Clad Steel Wire for Electronic Application

ASTM B 502: Standard Specification for Aluminum-Clad Steel Core Wire for Aluminum Conductors, Aluminum-Clad Steel Reinforced

ASTM B 520: Standard Specification for Tin-Coated, Copper-Clad Steel Wire for Electronic Application

ASTM B 524: Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Aluminum-Alloy Reinforced (ACAR, 1350/6201)

ASTM B 524M: Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Aluminum-Alloy Reinforced (ACAR, 1350/6201) [Metric]

ASTM B 549: Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Aluminum-Clad Steel Reinforced (ACSR/AW)

ASTM B 559: Standard Specification for Nickel-Coated, Copper-Clad Steel Wire for Electronic Application

ASTM B 606: Standard Specification for High-Strength Zinc-Coated (Galvanized) Steel Core Wire for Aluminum and Aluminum Alloy Conductors, Steel Reinforced

ASTM B 609: Standard Specification for Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes

ASTM B 609M: Standard Specification for Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes [Metric]

ASTM B 624: Standard Specification for High-Strength, High-Conductivity Copper-Alloy Wire for Electronic Application

ASTM B 682: Standard Specification for Standard Metric Sizes of Electrical Conductors

ASTM B 701: Standard Specification for Concentric-Lay-Stranded Self-Damping Aluminum Conductors, Steel-Reinforced (ACSR/SD)

ASTM B 711: Standard Specification for Concentric-Lay-Stranded Aluminum-Alloy Conductors, Steel Reinforced (AACSR) (6201)

ASTM B 738: Standard Specification for Fine-Wire Bunch-Stranded and Rope-Lay Bunch Stranded Copper Conductors for Use as Electrical Conductors

ASTM B 778: Standard Specification for Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors (AAC/TW)

ASTM B 779: Standard Specification for Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors, Steel Reinforced (ACSR/TW)

ASTM B 784: Standard Specification for Modified Concentric-Lay-Stranded Copper Conductors for Use in Insulated Electrical Cables

ASTM B 785: Standard Specification for Compact Round Modified Concentric-Lay-Stranded Copper Conductors for Use in Insulated Electrical Cables

ASTM B 786: Standard Specification for 19 Wire Combination Unilay-Stranded Aluminum 1350 Conductors for Subsequent Insulation

ASTM B 787: Standard Specification for 19 Wire Combination Unilay-Stranded Copper Conductors for Subsequent Insulation

ASTM B 801: Standard Specification for Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy for Subsequent Covering or Insulation

ASTM B 802: Standard Specification for Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR)

ASTM B 803: Standard Specification for High-Strength Zinc-5 % Aluminum-Mischmetal Alloy Coated Steel Core Wire for Aluminum and Aluminum-Alloy Conductors, Steel Reinforced

ASTM D 149: Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies

ASTM D 470: Method of Testing Crosslinked Insulations and Jackets for Wire and Cable

ASTM D 866: Specification for Styrene-Butadiene (SBR) Synthetic Rubber Jacket for Wire and Cable

Reference Standards

ASTM D 1047: Specification for Polyvinyl Chloride (PVC) Jacket for Wire and Cable

ASTM D 1351: Specification for Polyethylene Insulation for Wire and Cable

ASTM D 1352: Specification for Ozone-Resisting Butyl Rubber Insulation for Wire and Cable

ASTM D 1523: Method for Synthetic Rubber Insulation for Wire and Cable, 90° Operation

ASTM D 1679: Specification for Synthetic Rubber Heat and Moisture-Resisting Insulation for Wire and Cable, 75°C Operation

ASTM D 2219: Specification for Polyvinyl Chloride (PVC) Insulation for Wire and Cable, 60° Operation

ASTM D 2220: Specification for Polyvinyl Chloride (PVC) Insulation for Wire and Cable, 75° Operation

ASTM D 2308: Specification for Polyethylene Jacket for Electrical Insulated Wire and Cable

ASTM D 2526: Specification for Ozone-Resisting Silicone Rubber Insulation for Wire and Cable

ASTM D 2655: Specification for Crosslinked Polyethylene Insulation for Wire and Cable Rated 0 to 2000 V

ASTM D 2656: Specification for Crosslinked Polyethylene Insulation for Wire and Cable Rated 2001 to 35000 V

ASTM D 2768: Specification for General-Purpose Ethylene-Propylene Rubber Jacket for Wire and Cable

ASTM D 2770: Specification for Ozone-Resisting Ethylene-Propylene Rubber Integral Insulation and Jacket for Wire and Cable

ASTM D 2802: Specification for Ozone-Resistant Ethylene-Propylene Rubber Insulation for Wire and Cable

ASTM D 3004: Specification for Extruded Thermosetting and Thermoplastic Semi-Conducting Conductor and Insulation Shields

ASTM D 3485: Specification for Smooth-Wall Coilable Polyethylene (PE) Conduit (Duct) for Preassembled Wire and Cable

ASTM D 3554: Specification for Track-Resistant Black Thermoplastic High Density Polyethylene Insulation for Wire and Cable

ASTM D 3555: Specification for Track-Resistant Black Crosslinked Thermosetting Polyethylene Insulation for Wire and Cable

ASTM D 4244: Specification for General-Purpose, Heavy-Duty and Extra-Heavy Duty Acrylonitrile-Butadiene/ Polyvinyl Chloride (NBR/PVC) Jackets for Wire and Cable

ASTM D 4245: Specification for Ozone-Resistant Thermoplastic Elastomer Insulation for Wire and Cable, 90°C Dry - 75°C Wet Operation

ASTM D 4246: Specification for Ozone-Resistant Thermoplastic Elastomer Insulation for Wire and Cable, 90°C Operation

ASTM D 4247: Specification for General-Purpose Black Heavy-Duty and Black Extra-Heavy Duty Polychloroprene Jackets for Wire and Cable

ASTM D 4313: Specification for General Purpose Heavy-Duty and Extra-Heavy-Duty Crosslinked Chlorinated Polyethylene Jackets for Wire and Cable

ASTM D 4314: Specification for General Purpose Heavy-Duty and Extra-Heavy-Duty Crosslinked Chlorosulfonated Polyethylene Jackets for Wire and Cable

ASTM D 4363: Specification for Thermoplastic Chlorinated Polyethylene Jacket for Wire and Cable

ASTM D 4496: Test Method of DC Resistance or Conductance of Moderately Conductive Materials

ASTM D 4568: Test Methods for Evaluating Compatibility Between Cable Filling and Flooding Compounds and Polyolefin Cable Materials

ASTM D 4967: Guide for Selecting Materials to Be Used for Insulation, Jacketing, and Strength Components in Fiber Optic Cables

CAN3-Z299.0: Guide for Selecting and Implementing the CAN3-Z299 Quality Assurance Program Standards

CAN3-Z299.1: Standard for Quality Assurance Program - Category 1

CAN3-Z299.2: Standard for Quality Assurance Program - Category 2

CAN3-Z299.3: Standard for Quality Assurance Program - Category 3

CAN3-Z299.4: Standard for Quality Assurance Program - Category 4

CAN/CSA C22.2 No. 211: Standard for Cord Sets and Power-Supply Cords

CAN/CSA C22.2 No. 48: Standard for Nonmetallic Sheathed Cable

CAN/CSA C22.2 No. 49: Standard for Flexible Cords and Cables

CAN/CSA C22.2 No. 51: Standard for Armored Cable

CAN/CSA C22.2 No. 96: Standard for Portable Power Cables

CAN/CSA C22.2 No. 130.1: Standard for Heat-Tracing Cable Systems for Use in Industrial Locations

CAN/CSA C22.2 No. 131: Standard for Type TECK 90 Cable

CAN/CSA C22.2 No. 203: Standard for Modular Wiring Systems for Office Furniture

CAN/CSA C22.2 No. 210.2: Standard for Appliance Wiring Material Products

CAN/CSA C22.2 No. 214: Standard for Communications Cables

CAN/CSA C22.2 No. 233: Standard for Cords and Cord Sets for Communication Systems

CAN/CSA C22.2 No. 239: Standard for Control and Instrumentation Cables

CAN/CSA C22.2 No. 241: IEEE Standard for Cable Joints for Use with Extruded Dielectric Cable Rated 5,000V Through 46,000V, and Cable Joints for Use with Laminated Dielectric Cable Rated 2,500 V Through 500,000 V (Adopted IEEE 404-1986)

CAN/CSA C22.3 No. 1: Standard for Overhead Systems

CAN/CSA C22.3 No. 8: Standard for Railway Electrification Guidelines

CAN/CSA C49.1: Standard for Round Wire, Concentric Lay, Overhead Electrical Conductors

Reference Standards

CAN/CSA C68.3: Standard for Shielded and Concentric Neutral Power Cables Rated 5-46 kV

CAN/CSA T529: Standard Design Guide for Telecommunications Wiring Systems in Commercial Buildings

CSA C22.1: Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations

CSA C22.2 No. 0.3: Standard for Test Methods for Electrical Wires and Cables

CSA C22.2 No. 16: Standard for Insulated Conductors for Power-Operated Electronic Devices

CSA C22.2 No. 35: Standard for Extra-Low-Voltage Control Circuit Cables, Low-Energy Control Cable, and Extra-Low-Voltage Control Cable

CSA C22.2 No. 38: Standard for Thermoset Insulated Wires and Cables

CSA C22.2 No. 52: Standard for Service-Entrance Cables

CSA C22.2 No. 75: Standard for Thermoplastic-Insulated Wires and Cables

CSA C22.2 No. 116: Standard for Coil-Lead Wires

CSA C22.2 No. 123: Standard for Aluminum Sheathed Cables

CSA C22.2 No. 124: Standard for Mineral-Insulated Cable

CSA C22.2 No. 127: Standard for Equipment Wires

CSA C22.2 No. 129: Standard for Neutral Supported Cable

CSA C22.2 No. 130: Standard for Heating Cables and Heating Cable Sets

CSA C22.2 No. 138: Standard for Heat Tracing Cable and Cable Sets for Use in Hazardous Locations

CSA C22.2 No. 174: Standard for Cables and Cable Glands for Use in Hazardous Locations

CSA C22.2 No. 179: Standard for Airport Series Lighting Cables

CSA C22.2 No. 188: Standard for Splicing Wire and Cable Connectors

CSA C22.2 No. 198.2: Standard for Underground Cable Splicing Kits

CSA C22.2 No. 208: Standard for Fire Alarm and Signal Cable

CSA C22.2 No. 222: Standard for Type FCC Under-Carpet Wiring System

CSA C22.2 No. 230: Standard for Tray Cable

CSA C22.2 No. 232: Standard for Optical Fiber Cables

CSA/CAN3 C22.3 No. 7: Standard for Underground Systems

CSA C49.2: Standard for Compact Aluminum Conductors Steel Reinforced (ACSR)

CSA C49.3: Standard for Aluminum Alloy 1350 Round Wire, All Tempers, for Electrical Purposes

CSA C49.4: Standard for Concentric-Lay Aluminum Stranded Conductors (ASC)

CSA C49.5: Standard for Compact Round Concentric-Lay Aluminum Stranded Conductors (Compact ASC)

CSA CAN3-C49.6: Standard for Zinc-Coated Steel Wires for Use in Overhead Electrical Conductors

CSA CAN3-C49.7: Standard for Aluminum Round Wires for Use in Overhead Electrical Conductors

CSA C68.1: Standard Specifications for Impregnated Paper-Insulated, Metallic-Sheathed Cable, Solid-Type

CSA C170.2: Standard for Polyethylene Protective Covering on Paper-Insulated Metallic Sheathed Power Cable

CSA C170.3: Standard for Polyvinyl-Chloride (PVC) Protective Covering on Paper-Insulated Metallic-Sheathed Power Cable

CSA M421: Standard for Use of Electricity in Mines

EIA/TIA-568: Commercial Building Telecommunications Wiring Standard

EIA/TIA-569: Commercial Building Standard for Telecommunications Pathways and Spaces

EIA/TIA-606: Administration Standard for the Telecommunications Infrastructure of Commercial Buildings

EIA/TIA TSB-36: Additional Cable Specifications for Unshielded Twisted Pair Cables (Technical Systems Bulletin 36)

EIA/TIA TSB-40: Additional Transmission Specifications for Unshielded Twisted Pair Connecting Hardware (Technical Systems Bulletin 40)

FP-4: TM-4 CSA CBC and UL CMR (Riser) Cable

FP-16: TD-16 Plastic Insulated, Two Parallel Conductor, Telephone Drop Wire

FP-28: Air Core, Solid PIC, ALPETH-DCAS Cable and PAP-DCAS Cable

FP-67: PHD Plastic Insulated and Jacketed, Four Conductor, Telephone Drop Wire

FP-68: TM-68 CSA PCC FT4, Shielded Inside Wiring Cable

FP-71: TM-28 CSA PCC FT4, Inside Wiring Cable

FP-75: PHILPLAST CSA PCC FT4, PVC Insulated and Jacketed, Switchboard Cable

FP-81: TM-81 CSA ZSW FT1, Telephone Station Wire

FP-90: CONCEL Cellular Polyethylene Insulated, Air Core, ALPETH-DCAS Sheathed, Telephone Cable

FP-93: TM-91, TM-92, TM-93 and TM-97, Filled, Buried Wire

FP-95: Quasi-Solid Polyethylene Insulated, Filled, Regular and Twin Core, ALPETH-DCAS Sheathed Cable

FP-98: CELSEAL Cellular Polyethylene Insulated, Filled, ALPETH-DCAS Sheathed Cable

FP-99: DUCTCEL Cellular Polyethylene Insulated, Air Core, ALPETH-DCAS Sheathed Telephone Cable

FP-8859: PHILSYM UL 444 CMR and CSA PCC FT4 Switchboard Cable

HP: See NEMA listing

ICEA P-32-382: ICEA Standards Publication for Short Circuit Characteristics of Insulated Cable



Reference Standards

ICEA P-45-482: ICEA Standards Publication for Short-Circuit Performance of Metallic Shields and Sheaths of Insulated Cable

ICEA P-53-426: ICEA/NEMA Standards Publication for Ampacities, Including Effect of Shield Losses for Single-Conductor Solid-Dielectric Power Cable 15 kV through 69 kV (NEMA WC50)

ICEA P-54-440: ICEA/NEMA Standards Publication for Ampacities of Cables in Open-Top Cable Trays (NEMA WC51)

ICEA P-79-561: ICEA Guide for Selecting Aerial Cable Messengers and Lashing Wires

ICEA S-56-434: ICEA/ANSI Standards Publication for Polyolefin Insulated Communications Cables for Outdoor Use

ICEA S-67-401: ICEA/NEMA Standards Publication for Steel Armor and Associated Coverings for Impregnated-Paper-Insulated Cables (NEMA WC2)

ANSI/ICEA S-70-547: ICEA/ANSI Standards Publication for Weather-Resistant Polyolefin-Covered Wire and Cable

ICEA S-73-532: ICEA/NEMA/ANSI Standards Publication for Control Cables (NEMA WC57)

ICEA S-75-381: ICEA/NEMA/ANSI Standards Publication for Portable and Power Feeder Cables for Use in Mines and Similar Applications (NEMA WC58)

ANSI/ICEA S-76-474: ICEA/ANSI Standards Publication for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation, 600 Volts

ICEA S-77-528: ICEA/ANSI Standards Publication for Outside Plant Communications Cables, Specifying Metric Wire Sizes

ICEA S-80-576: ICEA/ANSI Standards Publication for Communications Wire and Cable for Wiring of Premises

ANSI/ICEA S-81-570: Standard for 600 volt rated cables of Ruggedized Design For Direct Burial installations of single conductors or assemblies of single conductors.

ICEA S-82-552: ICEA/NEMA Standards Publication for Instrumentation Cables and Thermocouple Wire (NEMA WC55)

ICEA S-83-596: ICEA/ANSI Standards Publication for Fiber Optic Premises Distribution Cable

ICEA S-84-608: ICEA/ANSI Standards Publication for Telecommunications Cable, Filled Polyolefin Insulated, Copper Conductor

ICEA S-85-625: ICEA/ANSI Standards Publication for Aircore, Polyolefin Insulated, Copper Conductor Telecommunications Cable

ICEA S-86-634: ICEA/ANSI Standards Publication for Buried Distribution and Service Wire, Filled Polyolefin Insulated, Copper Conductor

ICEA S-87-640: ICEA/ANSI Standards Publication for Fiber Optic Outside Plant Communication Cable

ICEA-S-93-639: ICEA/NEMA Standard for Shielded Power Cables Rated 5-46 kV for the Distribution of Electrical Energy (NEMA WC74)

ANSI/ICEA-S-94-649: Standard for Concentric Neutral Cables Rated 5-46 kV

ICEA S-95-658: ICEA/NEMA Standard for Non-shielded Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy (NEMA WC70)

ICEA S-96-659: ICEA/NEMA Standard for Non-shielded Cables Rated 2001-5000 Volts for use in the Distribution of Electrical Energy (NEMA WC71)

ANSI/ICEA S-97-682: Standard for Utility Shielded Power Cable Rated 5-46 kV

ANSI/ICEA S-105-692: Standard for 600 Volt Single Layer Thermoset Insulated Utility Underground Distribution Cable

ICEA T-22-294: ICEA Standard Test Procedures for Extended Time-Testing of Wire and Cable Insulations for Service in Wet Locations

ICEA T-25-425: ICEA Guide for Establishing Stability of Volume Resistivity for Conducting Polymeric Components of Power Cables

ICEA T-26-465: ICEA/NEMA Guide for Frequency of Sampling Extruded Dielectric Power, Control, Instrumentation and Portable Cables for Test (NEMA WC54)

ICEA T-27-581: ICEA/NEMA Standard Test Methods for Extruded Dielectric Power, Control, Instrumentation and Portable Cables (NEMA WC53)

ANSI/ICEA T-28-562: ICEA Standard Test Method for Measurement of Hot Creep of Polymeric Insulations

ICEA T-29-520: ICEA Standard for Vertical Tray Flame Tests at 210,000 Btu

ICEA T-30-520: ICEA Standard for Vertical Tray Flame Tests at 70,000 Btu

ICEA T-31-610: ICEA Standard for Water Penetration Resistance Test, Sealed Conductor

ICEA T-32-645: ICEA Standards Publication for Compatibility of Sealed Conductor Filer Compounds

IEC 92-3: International Electrotechnical Commission Electrical Installation in Ships - Part 3 Cables (Constructions, Testing and Installations)

IEEE 45: IEEE Recommended Practice for Electric Installations on Shipboard

IEEE 48: IEEE Standard Test Procedures and Requirements for High-Voltage Alternating Current Cable Terminations

IEEE 100: IEEE Standard Dictionary of Electrical and Electronics Terms

IEEE 141: IEEE Recommended Practice for Electric Power Distribution for Industrial Plants ("IEEE Red Book")

IEEE 142: IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems ("IEEE Green Book")

IEEE 241: IEEE Recommended Practice for Electric Power Systems in Commercial Buildings ("IEEE Gray Book")

IEEE 242: IEEE Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems ("IEEE Buff Book")

IEEE 323: IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations

IEEE 383: IEEE Standard for Type Test of Class 1E Electric Cables, Field Splices and Connections for Nuclear Power Generating Stations

Reference Standards

IEEE 400: IEEE Guide for Making High-Direct-Voltage Tests on Power Cable Systems in the Field

IEEE 404: IEEE Standard for Cable Joints for Use with Extruded Dielectric Cable Rated 5,000 V Through 46,000 V, and Cable Joints for Use with Laminated Dielectric Cable Rated 2,500 V Through 500,000 V (Adopted as a National Standard of Canada, CAN/CSA-C22.2 No. 241)

IEEE 446: IEEE Recommended Practice for Emergency and Standby Power Systems for Industrial and Commercial Applications (“IEEE Orange Book”)

IEEE 493: IEEE Recommended Practice for the Design of Reliable Industrial and Commercial Power Systems (“IEEE Gold Book”)

IEEE 515: IEEE Recommended Practice for the Testing, Design, Installation, and Maintenance of Electrical Resistance Heat Tracing for Industrial Applications

IEEE 524: IEEE Guide to the Installation of Overhead Transmission Line Conductors

IEEE 525: IEEE Guide for the Design and Installation of Cable Systems in Substations

IEEE 575: IEEE Guide for the Application of Sheath-Bonding Methods for Single-Conductor Cables and the Calculation of Induced Voltages and Currents in Cable Sheaths

IEEE 576: IEEE Recommended Practice for Installation, Termination, and Testing of Insulated Power Cable as Used in the Petroleum and Chemical Industry

IEEE 590: IEEE Cable Plowing Guide

IEEE 602: IEEE Recommended Practice for Electric Systems in Health Care Facilities (“IEEE White Book”)

IEEE 635: IEEE Guide for Selection and Design of Aluminum Sheaths for Power Cables

IEEE 644: IEEE Standard Procedures for Measurement of Power Frequency Electric and Magnetic Fields from AC Power Lines

IEEE 738: IEEE Standard for Calculation of Bare Overhead Conductor Temperature and Ampacity Under Steady-State Conditions

IEEE 789: IEEE Standard Performance Requirements for Communications and Control Cables for Application in High Voltage Environments

IEEE 802.3: IEEE Standard for Information Processing Systems - Local and Metropolitan Area Networks - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications (ISO/IEC) (ANSI/IEEE Std 802.3)

IEEE 802.5: IEEE Standard for Information Technology - Local and Metropolitan Area Networks - Part 5: Token Ring Access Method and Physical Layer Specifications (ISO/IEC) (ANSI/IEEE Std 802.5)

IEEE 816: IEEE Guide for Determining the Smoke Generation of Solid Materials Used for Insulations and Coverings of Electric Wire and Cable

IEEE 844: IEEE Recommended Practice for Electrical Impedance, Induction, and Skin Effect Heating of Pipelines and Vessels

IEEE 1017: IEEE Recommended Practice for Field Testing Electric Submersible Pump Cable

IEEE 1018: IEEE Recommended Practice for Specifying Electric Submersible Pump Cable – Ethylene-Propylene Rubber Insulation

IEEE 1019: IEEE Recommended Practice for Specifying Electric Submersible Pump Cable – Polypropylene Insulation

IEEE 1120: IEEE Guide to the Factors to Be Considered in the Planning, Design, and Installation of Submarine Power and Communications Cables

IEEE 1202: IEEE Standard for Flame Testing of Cables for Use in Cable Tray in Industrial and Commercial Occupancies

IEEE/ICEA S-135: Power Cable Ampacities

Mil-C-17: General Specifications for Flexible and Semirigid Radio Frequency Cables

Mil-C-915F: General Specification for Electrical Cable and Conductors for Shipboard Use

Mil-C-13777: General Specification for Special Purpose Electrical Cable

Mil-C-24640: General Specification for Lightweight Electrical Cable for Shipboard Use

Mil-C-24643: General Specification for Low Smoke Electrical Cable and Conductors for Shipboard Use

Mil-C-27500: General Specification for Shielded and Unshielded Electrical Power Cable and Special Purpose Cable

Mil-C-85045: General Specification for Fiber Optic Cables [Metric]

Mil-W-16878: General Specification for Insulated Electrical Wire

Mil-W-22759: General Specification for Copper or Copper Alloy Fluoropolymer-Insulated Electrical Wire

Mil-W-81044: General Specification for Copper or Copper Alloy, Crosslinked Polyalkene, Crosslinked Alkane-Imide Polymer or Polyalkene Insulated Electrical Wire

Mil-W-81381: General Specification for Replacement Wire

Mil-W-85485: General Specification for Radio Frequency Absorptive Filter Line Electrical Cable

NAVSEA 6710782: Fiber Optic and Multimode Cable

NEMA HP 3: Electrical and Electronic PTFE (Polytetrafluoro-ethylene) Insulated High Temperature Hook-Up Wire; Types (600 Volt), EE (1000 Volt), and ET (250 Volt)

NEMA HP 4: Electrical and Electronic FEP Insulated High Temperature Hook-Up Wire; Types K, KK, and KT

NEMA HP 100: High Temperature Instrumentation and Control Cables

NEMA HP 100.1: High Temperature Instrumentation and Control Cables Insulated and Jacketed with FEP Fluorocarbons

NEMA HP 100.2: High Temperature Instrumentation and Control Cables Insulated and Jacketed with ETFE Fluoropolymers

NEMA HP 100.3: High Temperature Instrumentation and Control Cables Insulated and Jacketed with Cross-Linked (Thermoset) Polyolefin (XLPO)

Reference Standards

NEMA HP 100.4: High Temperature Instrumentation and Control Cables Insulated and Jacketed with ECTFE Fluoropolymers

NEMA WC2: Steel Armor and Associated Coverings for Impregnated-Paper-Insulated Cables (ICEA S-67-401)

NEMA WC3: Rubber-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy (ICEA S-19-81)

NEMA WC5: Thermoplastic-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy (ICEA S-61-402)

NEMA WC7: Cross-Linked-Thermosetting-Polyethylene-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy (ICEA S-66-524)

NEMA WC8: Ethylene-Propylene-Rubber-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy (ICEA S-68-516)

NEMA WC26: Wire and Cable Packaging

NEMA WC50: Ampacities, Including Effect of Shield Losses for Single-Conductor Solid Dielectric Power Cable 15 kV through 69 kV (ICEA P-53-426)

NEMA WC51: Ampacities of Cables in Open-Top Cable Trays (ICEA P-54-440)

NEMA WC52: High Temperature and Electronic Insulated Wire-Impulse Dielectric Testing

NEMA WC53: Standard Test Methods for Extruded Dielectric Power, Control, Instrumentation, and Portable Cables (ICEA T-27-581)

NEMA WC54: Guide for Frequency of Sampling Extruded Dielectric Power, Control, Instrumentation, and Portable Cables for Test (ICEA T26-465)

NEMA WC55: Instrumentation Cables and Thermocouple Wire (ICEA S-82-552)

NEMA WC56: 3.0 kHz Insulation Continuity Proof Testing of Hook-Up Wire

NEMA WC57: Standard for Control Cables (ICEA S-73-532)

NEMA WC58: Standard for Portable and Power Feeder Cables for Use in Mines and Similar Applications (ICEA-S-75-381)

NEMA WC61: Transfer Impedance Testing

NEMA WC62: Repeated Spark/Impulse Dielectric Testing

NEMA WC70: Standard for Non-shielded Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy (ICEA S-95-658)

NEMA WC71: Standard for Non-shielded Cables Rated 2001-5000 Volts for Use in the Distribution of Electrical Energy (ICEA S-96-659)

NEMA WC74: Standard for Shielded Power Cables Rated 5-46 kV for the Distribution of Electrical Energy (ICEA S-93-639)

NFPA 70: National Electrical Code

NFPA 70HB: National Electrical Code Handbook

NFPA 262: Test for Fire and Smoke Characteristics of Wires and Cables

ONT M-302-84: Cable, Secondary, for Direct Burial

ONT M-355-82: Cable, Primary Submarine

ONT M-538-84: Cable, For Use in Generating Stations (5 kV and Above)

ONT M-570-84: Cable, For Use in Generating Stations (600 V)

ONT M-695-88: Cable, Primary and Subtransmission Submarine, Concentric Neutral

SAE 1560: Low Tension, Thin Wall Primary Cable

SAE J1127: Battery Cable

SAE J1128: Low Tension Primary Cable

TIA: See EIA/TIA

UL 4: Standard for Armored Cable

UL 13: Standard for Power-Limited Circuit Cables

UL 44: Standard for Rubber-Insulated Wires and Cables

UL 62: Standard for Flexible Cord and Fixture Wire

UL 83: Standard for Thermoplastic-Insulated Wires and Cables

UL 183: Standard for Manufactured Wiring Systems

UL 444: Standard for Communications Cables

UL 486A: Standard for Wire Connectors and Soldering Lugs for Use With Copper Conductors

UL 486B: Standard for Wire Connectors and Soldering Lugs for Use With Aluminum Conductors

UL 486C: Standard for Splicing Wire Connectors

UL 486D: Standard for Insulated Wire Connectors for Use With Underground Conductors

UL 486E: Standard for Equipment Wiring Terminals for Use With Aluminum and/or Copper Conductors

UL 493: Standard for Thermoplastic-Insulated Underground Feeder and Branch-Circuit Cables

UL 498: Standard for Attachment Plugs and Receptacles

UL 514B: Standard for Fittings for Conduit and Outlet Boxes

UL 719: Standard for Nonmetallic-Sheathed Cables

UL 758: Standard for Appliance Wiring Material - Component

UL 814: Standard for Gas-Tube-Sign and Ignition Cable

UL 817: Standard for Cord Sets and Power-Supply Cords

UL 854: Standard for Service-Entrance Cables

UL 910: Standard for Test for Flame-Propagation and Smoke-Density Values for Electrical and Optical-Fiber Cables Used in Spaces Transporting Environmental Air

UL 1023: Standard for Household Burglar-Alarm System Units

UL 1063: Standard for Machine-Tool Wires and Cables

UL 1072: Standard for Medium-Voltage Power Cables

UL 1084: Standard for Hoistway Cables

UL 1263: Standard for Irrigation Cables

Reference Standards

UL 1277: Standard for Electrical Power and Control Tray Cables With Optional Optical Fiber Members

UL 1309: Standard for Marine Shipboard Cable

UL 1424: Standard for Cables for Power-Limited Fire-Protective-Signaling Circuits

UL 1426: Standard for Cables for Boats

UL 1446: Standard for Systems of Insulating Materials—General

UL 1462: Standard for Mobile Home Pipe Heating Cable

UL 1569: Standard for Metal-Clad Cables

UL 1581: Reference Standard for Electrical Wires, Cables and Flexible Cords

UL 1588: Standard for Roof and Gutter De-Icing Cable Units

UL 1666: Standard Test for Flame Propagation Height of Electrical and Optical-Fiber Cables Installed Vertically in Shafts

UL 1673: Standard for Electric Space Heating Cables

UL 1685: Standard for Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables

UL 1690: Standard for Data Processing (DP) Cables

UL 1712: Standard Tests for Ampacity of Insulated Electrical Conductors Installed in the Fire Protective System

UL 1807: Standard for Fire Resistant Cable Coating Materials

UL 2023: Standard Test Method for Flame and Smoke Characteristics of Nonmetallic Wiring Systems (Raceway and Conductors) for Environmental Air-Handling Spaces

UL 2029: Standard for Gas/Vapor-Blocked Cable Classified for Use in Class 1 Hazardous (Classified) Locations

UL 2049: Standard for Residential Pipe Heating Cable

UL 2556: Wire and Cable Test Methods

WC: See NEMA listing

Checklist for Specifications

Control Cable

- Conductor Tape
- AWG
- Solid
 - ___ Class B, concentric
 - ___ Flexible
- Bare/Coated
- Insulation
- Jacket
- Temperature rating
- Voltage rating
- Individual Conductor Listings
- Number of Conductors
- Identification Method
 - ___ Color code
 - ___ Numbering
 - ___ Tags
- Grounding
 - ___ Bare/Coated
 - ___ Size
 - ___ Insulated

Power Cable

- Size, AWG or kcmil
- Conductor Type (metal)
- Stranding
 - ___ Class B, compact
 - ___ Class B, concentric
 - ___ Class C
 - ___ Other
- Bare/Coated
- Conductor Shielding
 - ___ Extruded
 - ___ Tape
- Insulation
 - ___ EPR
 - ___ EVA
 - ___ FEP
 - ___ FR-EP
 - ___ LSZH
 - ___ Polyethylene/PVC
 - ___ PVC/Nylon
 - ___ Silicone
 - ___ XLPE
 - ___ Other
- Insulation Level
 - ___ 100%
 - ___ 133%

- Insulation Shielding
 - ___ Extruded
 - ___ Tape
- Metallic Shielding
 - ___ Bare/Coated
 - ___ Helical copper tapes
 - ___ Helical wires
 - ___ Longitudinal drain wires
 - ___ Other
- Jacket
 - ___ CPE
 - ___ CSPE
 - ___ LSZH/XLPO
 - ___ Neoprene
 - ___ Polyurethane
 - ___ PVC
 - ___ XLPE
 - ___ XL-CPE
 - ___ XL-LSZH
 - ___ Other
- Cable Assembly
 - ___ Cabled
 - ___ Multiconductor
 - ___ Other
- Grounding Conductors
 - ___ Bare/Coated
 - ___ Insulated/Uninsulated
 - ___ Quantity
 - ___ Size
- Neutral Conductors
 - ___ Bare/Coated
 - ___ Fillers
 - ___ Flame-retardant
 - ___ Fiber
 - ___ Quantity
 - ___ Insulated
 - ___ Paper
 - ___ Other
 - ___ Size
- Covering
 - ___ Corrugated continuous welded armor
 - ___ Interlocked armor
 - ___ Lead
 - ___ Nonmetallic
 - ___ Other
- Color
- Voltage rating
- Temperature rating
- Approvals

General Checklist

- Standards
 - ___ AEIC
 - ___ CANENA
 - ___ CSA
 - ___ ICEA
 - ___ IEC
 - ___ IEEE
 - ___ UL
 - ___ Other
- Testing Procedures
 - ___ AEIC
 - ___ CAN ENA
 - ___ CSA
 - ___ ICEA
 - ___ IEC
 - ___ IEEE
 - ___ UL
 - ___ Other
- Special Requirements
 - ___ Cold bend
 - ___ Direct burial
 - ___ Flame-retardant
 - ___ Oil-resistant
 - ___ Sunlight-resistant
 - ___ Other
- Documentation
 - ___ Certificates of Compliance
 - ___ Certified Test Reports
 - ___ Drawings
 - ___ Warranties
 - ___ Other
- System Characteristics
- Shipping Details
 - ___ Cut lengths
 - ___ Installation recommendation
 - ___ Lagging
 - ___ Returnable reels
 - ___ Other
- Identification
 - ___ Cable
 - ___ Circuit
 - ___ Reel

Note: This checklist must be accompanied by exact system details about the environment and electrical characteristics.

NEC and CSA Designations

NEC WIRE TYPE	DESCRIPTION
AWM	Appliance Wiring Material, Thermoplastic Insulation (PVC), With or Without Nylon, 105°C, Dry Locations
MC-HL	Suffix "-HL" Indicates Acceptable for Hazardous Locations
ITC	Instrumentation Tray Cable, Several Combinations for Insulations and Jacket Compounds, CCW
MV-LS	Suffix "-LS" Indicates Acceptable for Limited Smoke Applications
MC	Metal-Clad Cable, THHN or XHHW Individual Conductors, Aluminum or Steel Interlocked Armor, CCW
MTW	Machine Tool Wire, Thermoplastic Insulation (PVC), With or Without Nylon, 90°C, Dry Locations
MV-90	Medium-Voltage Cable Rated at 90°C
MV-105	Medium-Voltage Cable Rated at 105°C
PLTC	Power-Limited Tray Cable, Several Combinations of Insulations and Jacket Compounds, CCW
RHH	Rubber Equivalent Insulation (XLPE), High Heat-Resistant, 90°C Rating, Dry or Damp Locations
RHW-2	Rubber Equivalent Insulation (XLPE), Heat-Resistant, 90°C Rating, Wet Locations
SF-2	Silicone Insulated Fixture Wire, Solid or 2-Strand
SFF-2	Silicone Insulated Fixture Wire, Flexible Strand
SIS	Flame-Retardant Thermoset Switchboard Wire
TC - ER	Tray Cable, Several Combinations of Insulation and Jacket Compounds, Cable Tray Use, Exposed Run
TFFN	Thermoplastic Insulation (PVC), Flexible Fixture Wire, 90°C Rating, Dry Locations, Nylon Jacket
TFN	Thermoplastic Insulation (PVC), Fixture Wire, 90°C Rating, Dry Locations, Nylon Jacket
THHN	Thermoplastic Insulation (PVC), High Heat-Resistant, 90°C Rating, Dry or Damp Locations, Nylon Jacket
THWN	Thermoplastic Insulation (PVC), Heat-Resistant, 75°C Rating, Wet Locations, Nylon Jacket
USE-2	Underground Service Entrance, Cross-Linked Polyethylene Insulation (XLPE), Direct Burial, 90°C Rating
XHHW-2	Cross-Linked Polyethylene Insulation (XLPE), High Heat-Resistant, 90°C Rating, Wet and Dry Locations

CSA WIRE TYPE	DESCRIPTION
AC-90	600 Volt XLPE Insulation, Aluminum or Steel Interlocked Armored Cable
ACIC	300 or 600 Volt Armored Instrument and Control Cable. A CSA-type designation used to describe Armored Instrumentation and Control Cable. Available in either 300 Volt or 600 Volt with thermoset or thermoplastic insulation, this cable can be supplied with an overall shield, shielded pairs, shielded triads or unshielded in multi-conductor constructions from 2 to 72 conductors. The overall interlocked armor and PVC jacket provide a (-40°C), HL, FT4 product (CSA Standard C22.2 No. 239).
ACWU90 (-40°C)	600 Volt XLPE Insulation, Aluminum or Steel Interlocked Armored Cable with PVC Jacket
HL (Hazardous Locations)	Designation for Hazardous Locations (CSA Standard C22.2 No. 174)
NMD90	300 Volt Non-Metallic Sheath Cable with XLPE or PVC/Nylon Insulation
NMWU	300 Volt Non-Metallic Sheath Cable with PVC Insulation
RA90 (-40°C)	600 and 5000 Volt Single and Multiple Conductor with Seamless Corrugated Aluminum Armor. A CSA-type designation for single-conductor or multi-conductor constructions similar to AC90 and ACWU90, except no bonding (grounding) conductor is required in the cable assembly. Also, the armor is a corrugated aluminum sheath, which serves as a bonding (grounding) conductor. The overall PVC covering on RA90 is required for wet or direct burial applications (CSA Standard C22.2 No. 123).
RW90 XLPE (-40°C)	600 and 5000 Volt Thermoset Insulation, 90°C Rating, Wet or Dry Locations
RWU90 XLPE (-40°C)	600 and 1000 Volt Thermoset Insulation, 90°C Rating, Direct Burial
SEW-2	600 Volt Silicone Rubber Insulated Equipment Wire, Solid or 7-Strand
SEWF-2	600 Volt Silicone Rubber Insulated Equipment Wire with Flexible Strand
TECK90 (-40°C)	600 and 5000 Volt Single and Multiple Conductor Cable with Inner Jacket, Aluminum or Steel Interlocked Armor with PVC Jacket
TC	Tray Cable Certified for Use in Class 1, Division 2 Areas
TW75	600 Volt Thermoplastic (PVC) Insulated Cable Suitable for Wet Locations
TWU (-40°C)	600 Volt Thermoplastic (PVC) Insulated Cable Suitable for Direct Burial



Common Color Sequence

Table E1 Color Sequence

COND. NO.	BACKGROUND OR BASE COLOR	FIRST TRACER COLOR	SECOND TRACER COLOR	COND. NO.	BACKGROUND OR BASE COLOR	FIRST TRACER COLOR	SECOND TRACER COLOR
1	Black	-	-	20	Red	Green	-
2	White	-	-	21	Orange	Green	-
3	Red	-	-	22	Black	White	Red
4	Green	-	-	23	White	Black	Red
5	Orange	-	-	24	Red	Black	White
6	Blue	-	-	25	Green	Black	White
7	White	Black	-	26	Orange	Black	White
8	Red	Black	-	27	Blue	Black	White
9	Green	Black	-	28	Black	Red	Green
10	Orange	Black	-	29	White	Red	Green
11	Blue	Black	-	30	Red	Black	Green
12	Black	White	-	31	Green	Black	Orange
13	Red	White	-	32	Orange	Black	Green
14	Green	White	-	33	Blue	White	Orange
15	Blue	White	-	34	Black	White	Orange
16	Black	Red	-	35	White	Red	Orange
17	White	Red	-	36	Orange	White	Blue
18	Orange	Red	-	37	White	Red	Blue
19	Blue	Red	-				

Pair cables are Black, White and numbered. Triad cables are Black, White, Red and numbered.

**Method 4 -
All Conductors Black**

COND.	CONDUCTOR PRINTING
1st	"1-One"
2nd	"2-Two"
3rd	"3-Three"
4th	"4-Four"
5th	"5-Five"

Table E2 Color Sequence

COND. NO.	BACKGROUND OR BASE COLOR	TRACER COLOR	COND. NO.	BACKGROUND OR BASE COLOR	TRACER COLOR
1	Black	-	19	Orange	Blue
2	Red	-	20	Yellow	Blue
3	Blue	-	21	Brown	Blue
4	Orange	-	22	Black	Orange
5	Yellow	-	23	Red	Orange
6	Brown	-	24	Blue	Orange
7	Red	Black	25	Yellow	Orange
8	Blue	Black	26	Brown	Orange
9	Orange	Black	27	Black	Yellow
10	Yellow	Black	28	Red	Yellow
11	Brown	Black	29	Blue	Yellow
12	Black	Red	30	Orange	Yellow
13	Blue	Red	31	Brown	Yellow
14	Orange	Red	32	Black	Brown
15	Yellow	Red	33	Red	Brown
16	Brown	Red	34	Blue	Brown
17	Black	Blue	35	Orange	Brown
18	Red	Blue	36	Yellow	Brown

Pair cables are Black, Red and numbered. Triad cables are Black, Red, Blue and numbered. Colors repeat after 36 conductors. There are no Green or White conductors or stripes.

ANSI MC 96.1 Conductor Alloy and Color Code

COND. TYPE	POSITIVE WIRE		NEGATIVE WIRE		OUTER JACKET
	ALLOY	COLOR	ALLOY	COLOR	
EX	Chromel	Purple	Constantan	Red	Purple
JX	Iron	White	Constantan	Red	Black
KX	Chromel	Yellow	Alumel	Red	Yellow
TX	Copper	Blue	Constantan	Red	Blue

Metric Conversion Factors

	To Convert From	To	Multiply By
Length	Inches	Millimeters	25.4
	Millimeters	Inches	0.03937
	Inches	Centimeters	2.54
	Centimeters	Inches	0.3937
	Feet	Meters	0.3048
	Meters	Feet	3.2808
Area	Kilofeet (1000 feet)	Kilometers	0.3048
	Kilometers	Kilofeet (1000 feet)	3.2808
	Square Inches	Square Millimeters	645.16
	Square Millimeters	Square Inches	0.00155
	Square Inches	Square Centimeters	6.4516
	Square Centimeters	Square Inches	0.155
Weight	Square Inches	Circular Mils	1,273,240
	Circular Mils	Square Inches	7.854×10^{-7}
	Circular Mils	Square Millimeters	5.066×10^4
	Square Millimeters	Circular Mils	1973.51
	Square Feet	Square Meters	0.0929
	Square Meters	Square Feet	10.764
Electrical	Pounds	Kilograms	0.4536
	Kilograms	Pounds	2.2046
	Pound/Kilofeet	Kilograms/Kilometer	1.4882
	Kilograms/Kilometer	Pounds/Kilofeet	0.6720
	Ohms/Kilofeet	Ohms/Kilometer	3.2808
	Ohms/Kilometer	Ohms/Kilofeet	0.3048
Mechanical	Microfarads/Kilofeet	Microfarads/Kilometer	3.2808
	Microfarads/Kilometer	Microfarads/Kilofeet	0.3048
	Insulation Resistance: Megohms—Kilofeet	Megohms—Kilometer	0.3048
	Megohms—Kilometer	Megohms—Kilofeet	3.2808
Mechanical	Pounds/Square Inch	Kilo Pascal*	6.895
	Kilo Pascal*	Pounds/Square Inch	0.1432
	Pounds (force)	Newtons	4.448

* 1 Pascal = 1 Newton/square meters

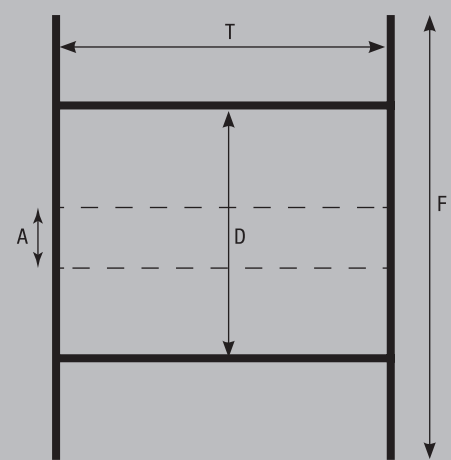
Reel Capacity Chart



Phone: 888-593-3355
www.generalcable.com

WOOD REELS

Reel (FxD)	30x18x12	36x24x17	40x24x17	45x28x21	50x32x24	58x32x28	72x36x36	84x36x48	90x36x48
RM Code	61-1215	61-1659	61-1808	61-2056	61-2253	61-2764	61-3655	61-4265	61-4366
Arbor Hole	2.75	3.06	3.06	3.06	3.06	3.06	3.06	3.5	3.5
Drive Hole	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5
Drive Hole Radius	4.5	6	6	8.5	10	10	10	10	10
Clearance	1.5	2	2	2	2	2	2	2	3
Factor	509.3	1155.4	1582.8	2274.2	3227.7	4468.6	7847.4	9658.4	11205.2
Max Weight	750	1500	2000	3000	4800	6500	8000	9000	10,000
Net Weight	47	91	110	142	208	271	513	744	821
Cable OD									
.241 - .250	11040								
.251 - .260	10200								
.261 - .270	9460								
.271 - .280	8800								
.281 - .290	8200								
.291 - .300	7660								
.301 - .310	7180								
.311 - .320	6740	10790							
.321 - .330	6330	10110							
.331 - .340	5970	9610							
.341 - .350	5630	9030							
.351 - .360	6320	8490							
.361 - .370	5040	8100							
.371 - .380	4780	7620	10520						
.381 - .390	4530	7300	9940						
.391 - .400	4310	6880	9540						
.401 - .410	4100	6600	9030						
.411 - .420	3910	6230	8550	12580					
.421 - .430	3730	6000	8220	11940					
.431 - .440	3560	5660	7790	11330					
.441 - .450	3410	5450	7510	10910					
.451 - .460	3260	5250	7120	10370	15010				
.461 - .470	3120	4970	6880	10000	14290				
.471 - .480	2990	4700	6530	9510	13790				
.481 - .490	2870	4630	6310	9180	13150				
.491 - .500	2760	4390	6110	8880	12700				
.501 - .525	2500	4040	5530	8050	11540				
.526 - .550	2280	3650	5030	7330	10510				
.551 - .575	2090	3310	4580	6680	9610				
.576 - .600	1920	3080	4180	6110	8800				
.601 - .625	1770	2810	3910	5590	8050				
.626 - .650	1630	2630	3580	5240	7430	10420			
.651 - .675	1510	2400	3280	4820	6970	9630			
.676 - .700	1410	2260	3090	4530	6430	8900			
.701 - .725	1310	2070	2840	4180	5940	8260			
.726 - .750	1230	1950	2690	3950	5610	7800			
.751 - .775	1150	1840	2480	3650	5190	7250			
.776 - .800	1080	1690	2350	3460	4920	6870			
.801 - .825	1010	1610	2230	3200	4670	6400	11530		
.826 - .850	950	1530	2060	3040	4340	6090	10860		
.851 - .875	900	1450	1970	2900	4130	5680	10250		
.876 - .900	850	1340	1880	2690	3850	5420	9690		
.901 - .925	810	1280	1735	2570	3670	5060	9170	11290	
.926 - .950	760	1220	1660	2460	3510	4840	8700	10700	
.951 - .975	730	1170	1590	2280	3270	4630	8250	10160	
.976 - 1.000	690	1075	1525	2190	3130	4340	7850	9660	11210
1.001 - 1.050	630	990	1360	2010	2880	3990	7120	8760	10160
1.051 - 1.100	570	910	1260	1800	2590	3600	6490	7980	9260
1.101 - 1.150	520	810	1120	1670	2400	3250	5930	7300	8470
1.151 - 1.200	480	750	1040	1500	2160	3030	5450	6710	7780
1.201 - 1.250	440	700	980	1400	2020	2740	5020	6180	7170
1.251 - 1.300	410	650	870	1310	1820	2570	4640	5720	6630
1.301 - 1.350	380	580	820	1180	1710	2410	4320	5300	6150
1.351 - 1.400	350	550	770	1110	1610	2190	4000	4930	5720
1.401 - 1.450	330	520	690	1040	1460	2070	3730	4590	5330
1.451 - 1.500	310	490	650	990	1370	1950	3490	4290	4980
1.501 - 1.600	270	410	590	840	1230	1690	3070	3770	4380
1.601 - 1.700	240	370	500	760	1060	1520	2720	3340	3880
1.701 - 1.800		330	450	650	960	1325	2420	2980	3460
1.801 - 1.900			420	600	880	1210	2170	2680	3100
1.091 - 2.000				540	760	1060	1960	2410	2800
2.001 - 2.100				500	700	970	1740	2190	2540
2.101 - 2.200					650	900	1620	2000	2320
2.201 - 2.300					600	790	1480	1830	2120
2.301 - 2.400					520	740	1360	1680	1950
2.401 - 2.500					490	690	1260	1550	1790
2.501 - 2.600					460	640	1160	1430	1660
2.601 - 2.700					430	600	1080	1320	1540
2.701 - 2.800						530	1000	1230	1430
2.801 - 2.900						500	930	1150	1330
2.901 - 3.000						470	870	1070	1250
3.001 - 3.100						440	820	1010	1170
3.101 - 3.200						420	770	940	1090
3.201 - 3.300						400	720	890	1030
3.301 - 3.400						380	680	840	970
3.401 - 3.500							640	790	910



F = Flange Diameter
T = Traverse Width
D = Drum Diameter
A = Arbor Hole

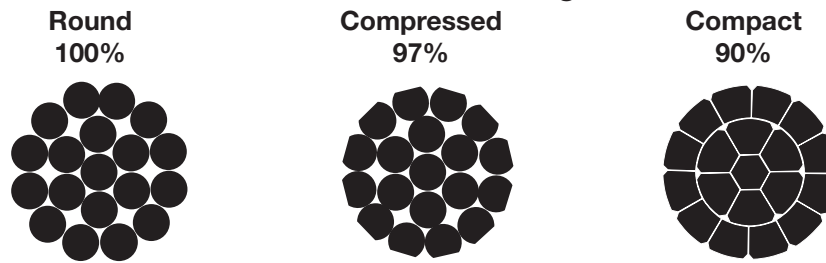
Conductor Reference

TABLE 1 – Conductor Reference Table – Stranded Bare Copper Conductor and Aluminum (ACM) Conductor

Stranded Bare Copper Conductor Standards

Conforms to:	ASTM B3	Soft or annealed copper wire
	ASTM B8	Concentric lay stranded copper conductors Class B, C and D
	ASTM B33	Tinned soft or annealed copper wire
	ASTM B172	Rope lay stranded copper conductors having bunch stranded members Classes I, K and M
	ASTM B173	Rope lay stranded copper conductors having concentric stranded members Classes G and H
	ASTM B174	Bunch stranded copper conductors
	ASTM B496	Compact round concentric lay stranded copper conductors

Concentric Stranding



Class B Conductors for General Wiring

Copper Conductor

ASTM CLASS B

COND. SIZE	STRANDING	NOMINAL AREA		NOMINAL WEIGHT		CONCENTRIC		COMPRESSED		COMPACT	
						NOMINAL O.D.		NOMINAL O.D.		NOMINAL O.D.	
AWG/kcmil	INCHES	CIRCULAR MILS	mm ²	LBS/1000 FT ¹	kg/km	INCHES	mm	INCHES	mm	INCHES	mm
22	7/.0096	640	0.32	1.99	2.96	0.029	0.74	—	—	—	—
20	7/.0121	1,020	0.52	3.15	4.69	0.036	0.91	—	—	—	—
18	7/.0152	1,620	0.82	5.10	7.59	0.046	1.17	—	—	—	—
16	7/.0192	2,580	1.31	7.74	11.52	0.058	1.47	—	—	—	—
14	7/.0242	4,110	2.08	12.70	18.90	0.073	1.84	0.071	1.80	—	—
12	7/.0305	6,530	3.31	20.20	30.10	0.092	2.32	0.089	2.26	—	—
10	7/.0385	10,380	5.26	32.10	47.80	0.116	2.95	0.113	2.87	—	—
8	7/.0486	16,510	8.36	51	75.90	0.146	3.71	0.142	3.60	0.134	3.40
6	7/.0612	26,240	13.30	81.10	120.70	0.184	4.67	0.178	4.53	0.169	4.29
4	7/.0772	41,740	21.20	129	192	0.232	5.89	0.225	5.72	0.213	5.41
2	7/.0974	66,360	33.60	205	305.10	0.292	7.42	0.283	7.19	0.268	6.81
1	19/.0664	83,690	42.40	258	383.90	0.332	8.43	0.322	8.18	0.299	7.59
1/0	19/.0745	105,600	53.50	326	485.10	0.373	9.47	0.362	9.19	0.336	8.53
2/0	19/.0837	133,100	67.40	411	611.60	0.419	10.64	0.406	10.32	0.376	9.55
3/0	19/.0940	167,800	85	518	770.90	0.470	11.94	0.456	11.58	0.423	10.74
4/0	19/.1055	211,600	107	653	971.80	0.528	13.41	0.512	13.01	0.475	12.07
250	37/.0822	250,000	127	772	1148.90	0.575	14.61	0.558	14.17	0.520	13.21
300	37/.0900	300,000	152	926	1378	0.630	16.00	0.611	15.52	0.570	14.48
350	37/.0973	350,000	177	1,081	1609	0.681	17.30	0.661	16.78	0.616	15.65
400	37/.1040	400,000	203	1,235	1838	0.728	18.49	0.706	17.94	0.659	16.74
500	37/.1162	500,000	253	1,544	2298	0.813	20.65	0.789	20.03	0.736	18.69
600	61/.0992	600,000	304	1,883	2802	0.893	22.68	0.866	22.00	0.813	20.65
750	61/.1109	750,000	380	2,316	3447	0.998	25.35	0.968	24.59	0.908	23.06
1000	61/.1280	1,000,000	507	3,088	4595	1.152	29.26	1.117	28.38	1.060	26.92

Dimensions and weights are nominal; subject to industry tolerances.

¹ Nominal conductor weights are applicable for Concentric Class B and Compressed Stranding per ASTM B8.

Class C Conductors for General Wiring

Copper Conductor

ASTM CLASS C

SIZE	STRANDING	NOMINAL AREA		NOMINAL DIAMETER		NOMINAL WEIGHT	
		AWG/kcmil	INCHES	CIRCULAR MILS	mm ²	INCHES	mm
22	19/.0063	640	0.32	0.031	0.79	2.34	3.48
20	19/.0080	1,020	0.52	0.038	0.97	3.71	5.52
18	19/.0092	1,620	0.82	0.044	1.12	5.00	7.40
16	19/.0117	2,580	1.31	0.056	1.42	7.97	11.86
14	19/.0147	4,110	2.08	0.070	1.80	12.70	18.90
12	19/.0185	6,530	3.31	0.089	2.24	20.20	30.10
10	19/.0234	10,380	5.26	0.112	2.85	32.05	47.80
9	19/.0262	13,090	6.63	0.126	3.20	40.40	60.10
8	19/.0295	16,510	8.37	0.143	3.63	51.00	74.40
7	19/.0331	20,820	10.50	0.162	4.11	64.30	95.70
6	19/.0372	26,240	13.30	0.184	4.67	81.00	121
5	19/.0417	33,090	16.80	0.203	5.16	102	152
4	19/.0469	41,740	21.20	0.235	5.97	129	192
3	19/.0526	52,620	26.70	0.263	6.68	163	243
2	19/.0591	66,360	33.60	0.296	7.52	205	305
1	37/.0476	83,690	42.40	0.323	8.20	258	384
1/0	37/.0534	105,600	53.50	0.362	9.20	326	485
2/0	37/.0600	133,100	67.40	0.407	10.33	411	612
3/0	37/.0673	167,800	85	0.457	11.60	518	771
4/0	37/.0756	211,600	107	0.513	13.03	653	972
250	31/.0640	250,000	127	0.558	14.17	774	1150
262.6	—	—	—	—	—	—	—
300	61/.0701	300,000	152	0.612	15.54	927	1380
313.1	—	—	—	—	—	—	—
350	61/.0757	350,000	177	0.661	16.79	1082	1610
373.7	—	—	—	—	—	—	—
400	61/.0810	400,000	203	0.711	18.10	1235	1838
444.4	—	—	—	—	—	—	—
500	61/.0905	500,000	253	0.791	20.10	1545	2299
535.3	—	—	—	—	—	—	—
592	—	—	—	—	—	—	—
600	91/.0812	600,000	304	0.893	22.70	1853	2757
646.4	—	—	—	—	—	—	—
750	91/.0908	750,000	380	0.999	25.40	2316	3446
777.7	—	—	—	—	—	—	—
1000	91/.1048	1,000,000	507	1.153	29.30	3088	4595
1111	—	—	—	—	—	—	—

Dimensions and weights are nominal; subject to industry tolerances.



Class H Conductors for General Wiring

Copper Conductor

ASTM CLASS H

SIZE	STRANDING	NOMINAL AREA		NOMINAL DIAMETER		NOMINAL WEIGHT	
		AWG/kcmil	INCHES	CIRCULAR MILS	mm ²	INCHES	mm
9	—	—	—	—	—	—	—
8	133/.0111	16,510	8.37	0.164	4.17	52	77
7	133/.0126	20,820	10.50	0.190	4.83	67	100
6	133/.0140	26,240	13.30	0.204	5.18	82	122
5	133/.0158	33,090	16.80	0.231	5.87	105	156
4	133/.0177	41,740	21.20	0.260	6.60	132	196
3	133/.0199	52,620	26.70	0.292	7.42	167	248
2	133/.0223	66,360	33.60	0.327	8.31	208	310
1	259/.0180	83,690	42.40	0.363	9.22	266	396
1/0	259/.0202	105,600	53.50	0.407	10.30	334	497
2/0	259/.0227	133,100	67.40	0.458	11.60	422	628
3/0	259/.0255	167,800	85	0.515	13.10	533	793
4/0	259/.0286	211,600	107	0.579	14.70	670	997
250	427/.0242	250,000	127	0.627	15.90	795	1183
262.6	—	—	—	—	—	—	—
300	427/.0265	300,000	152	0.702	17.80	953	1418
313.1	—	—	—	—	—	—	—
350	427/.0286	350,000	177	0.740	18.80	1110	1652
373.7	—	—	—	—	—	—	—
400	427/.0306	400,000	203	0.809	20.50	1270	1890
444.4	—	—	—	—	—	—	—
500	427/.0342	500,000	253	0.900	22.90	1590	2366
535.3	—	—	—	—	—	—	—
592	—	—	—	—	—	—	—
600	703/.0292	600,000	304	1.022	26.00	1920	2857
646.4	—	—	—	—	—	—	—
750	703/.0327	750,000	380	1.122	28.50	2410	3586
777.7	—	—	—	—	—	—	—
1000	703/.0377	1,000,000	507	1.294	32.90	3205	4769
1111	—	—	—	—	—	—	—

Dimensions and weights are nominal; subject to industry tolerances.

Class I Conductors for General Wiring

Copper Conductor

ASTM CLASS I

SIZE	STRANDING	NOMINAL AREA		NOMINAL DIAMETER		NOMINAL WEIGHT	
		AWG/kcmil	INCHES	CIRCULAR MILS	mm ²	INCHES	mm
10	27/.0201	10,910	5.53	0.117	2.97	33.70	50
9	—	—	—	—	—	—	—
8	37/.0201	14,950	7.57	0.135	3.43	46	68
7	—	—	—	—	—	—	—
6	61/.0201	24,640	12.50	0.174	4.42	77	114
5	91/.0201	36,760	19	0.242	6.15	116	173
4	105/.0201	42,420	21	0.262	6.60	137	204
3	126/.0201	50,500	25	0.285	7.24	167	249
2	147/.0201	60,600	31	0.307	7.80	190	283
1	224/.0201	90,900	46	0.380	9.65	287	427
1/0	273/.0201	111,100	56	0.410	10.41	351	522
2/0	323/.0201	131,300	66	0.470	11.90	407	606
3/0	456/.0201	184,200	92	0.549	13.94	594	884
4/0	551/.0201	222,600	112	0.593	14.70	696	1035
250	—	—	—	—	—	—	—
262.6	646/.0201	261,000	133	0.630	16	820	1220
300	—	—	—	—	—	—	—
313.1	777/.0201	313,900	159	0.685	17.40	987	1469
350	—	—	—	—	—	—	—
373.7	925/.0201	373,700	189	0.750	19	1176	1750
400	—	—	—	—	—	—	—
444.4	1110/.0201	448,400	225	0.820	20.80	1413	2103
500	—	—	—	—	—	—	—
535.3	1332/.0201	538,100	271	0.895	22.70	1697	2525
592	1480/.0201	597,900	303	0.972	24.70	1858	2765
600	—	—	—	—	—	—	—
646.4	1591/.0201	642,800	327	0.980	24.90	2020	3006
750	—	—	—	—	—	—	—
777.7	1924/.0201	777,700	394	1.075	27.30	2435	3624
1000	—	—	—	—	—	—	—
1111	2745/.0201	1,111,000	563	1.328	33.70	3400	5059

Dimensions and weights are nominal; subject to industry tolerances.

Class K Conductors for General Wiring

Copper Conductor

ASTM CLASS K

SIZE	STRANDING	NOMINAL AREA		NOMINAL DIAMETER		NOMINAL WEIGHT	
		AWG/kcmil	INCHES	CIRCULAR MILS	mm ²	INCHES	mm
22	—	—	—	—	—	—	—
20	10/.010	1,020	0.52	0.036	0.91	3.2	4.8
18	16/.010	1,620	0.82	0.046	1.20	5	7.4
16	26/.010	2,580	1.31	0.057	1.40	7.97	12
14	41/.010	4,110	2.08	0.071	1.80	12.8	19
12	65/.010	6,530	3.31	0.088	2.20	20.3	30.2
10	105/.010	10,380	5.26	0.112	2.80	33.3	49.6
9	133/.010	13,090	6.63	0.150	3.80	42.4	63.1
8	168/.010	16,510	8.37	0.164	4	53.2	80.8
7	210/.010	20,820	10.50	0.175	4.40	66.8	99.4
6	266/.010	26,240	13.30	0.198	5.00	84.2	125
5	336/.010	33,090	16.80	0.261	6.60	106	158
4	420/.010	41,740	21.20	0.249	6.30	132	196
3	532/.010	52,620	26.70	0.298	7.60	169	251
2	665/.010	66,360	33.60	0.317	8.10	211	314
1	836/.010	83,690	42.40	0.356	9	266	396
1/0	1064/.010	105,600	53.50	0.401	10	338	503
2/0	1323/.010	133,100	67.40	0.501	13	425	632
3/0	1666/.010	167,800	85	0.562	14	535	796
4/0	2107/.010	211,600	107	0.627	15.93	676	1006
250	2499/.010	250,000	127	0.688	17	802	1193
262.6	2220/.010	222,000	112	0.680	17	824	1226
300	2989/.010	300,000	152	0.753	19	960	1428
313.1	3136/.010	313,600	159	0.750	19	969	1442
350	3458/.010	350,000	177	0.818	21	1120	1667
373.7	3737/.010	373,700	189	0.790	20	1210	1800
400	3990/.010	400,000	203	0.878	22	1290	1920
444.4	—	—	—	—	—	—	—
500	5054/.010	500,000	253	0.990	25	1635	2433
535.3	5320/.010	532,000	270	0.950	24	1641	2442
592	—	—	—	—	—	—	—
600	5985/.010	600,000	340	1.125	29	1950	2902
646.4	6466/.010	646,600	328	1.040	26	1987	2957
750	7448/.010	750,000	380	1.276	32	2427	3611
777.7	—	—	—	—	—	—	—
1000	9975/.010	1,000,000	507	1.498	38	3250	4769
1111	—	—	—	—	—	—	—

Dimensions and weights are nominal; subject to industry tolerances.

Jacket and Insulation Material Properties

Thermoplastic Properties

INSULATION OR JACKET MATERIAL	CHLORINATED POLYETHYLENE (CPE)	POLYVINYL CHLORIDE (PVC)	LOW-DENSITY POLYETHYLENE	CELLULAR POLYETHYLENE	HIGH-DENSITY POLYETHYLENE	POLY-URETHANE	POLY-PROPYLENE	NYLON	TEFLON®	TPE
Oxidation Resistance	E	E	E	E	E	E	E	E	O	E
Heat Resistance	G-E	G-E	G	G-E	E	E	G	E	O	G
Oil Resistance	E	E	G-E	G-E	G-E	E	E	E	O	P
Low Temp. Flexibility	G	P-G	G-E	E	E	E	G	G	O	E
Weather, Sun Resistance	E	G-E	E	E	E	E	F-G	E	O	-
Ozone Resistance	E	E	E	E	E	E	E	E	E	E
Abrasion Resistance	E	F-G	F-G	G	E	F-G	O	E	G-E	F
Electrical Properties	G	F-G	E	E	E	E	P-F	F	E	G
Flame Resistance	E	G	P	P	P	P	P	P	O	F
Nuclear Radiation Resistance	G-E	P-F	G	G	G	F	G	F-G	P-F	F
Water Resistance	E	G-E	E	E	E	E	P	P-F	E	E
Acid Resistance	G-E	G-E	G-E	G-E	G-E	E	F	P-F	E	G
Alkali Resistance	G-E	G-E	G-E	G-E	G-E	E	F	E	E	G
Gasoline, Kerosene, Etc. (Aliphatic Hydrocarbons) Resistance	G	G	P-F	P-F	P-F	P-F	F	G	E	P
Benzol, Toluol, Etc. (Aromatic Hydrocarbons) Resistance	G	P-F	P	P	P	P-F	P	G	E	P
Degreaser Solvents (Halogenated Hydrocarbons) Resistance	F	P-F	P	P	P	P	P	G	E	P
Alcohol Resistance	G	G-E	E	E	E	E	P	P	E	E

P = Poor
F = Fair
G = Good
E = Excellent
O = Outstanding

Any given property can usually be improved by the use of selective compounding. Dimensions and weights are nominal; subject to industry tolerance.



Jacket and Insulation Material Properties

Thermoset Properties

INSULATION OR JACKET MATERIAL	STYRENE BUTADIENE RUBBER (SBR)	NATURAL RUBBER	SYNTHETIC RUBBER	POLY-BUTADIENE	NEOPRENE	HYPALON®-CHLORO-SULFONATED POLYETHYLENE (CSPE)	NITRILE OR RUBBER BUTADINE NITRILE (NBR)	NITRILE/ POLY-CHLORIDE (NBR/PVC)	ETHYLENE PROPYLENE RUBBER (EPR)	CROSS-LINKED POLYETHYLENE (XLPE)	CHLORINATED POLYETHYLENE (CPE)	SILICONE RUBBER
Oxidation Resistance	F	F	G	G	G	E	F	E	G	E	E	E
Heat Resistance	F-G	F	F	F	G	E	G	G	E	G	E	G
Oil Resistance	P	P	P	P	G	G	G-E	G	F	G	G-E	F-G
Low Temp. Flexibility	F-G	G	E	E	F-G	F	F	F	G-E	O	F	O
Weather, Sun Resistance	F	F	F	F	G	E	F-G	G	E	G	E	O
Ozone Resistance	P	P	P	P	G	E	P	G	E	E	G-E	O
Abrasion Resistance	G-E	E	E	E	G-E	G	G-E	E	G	F-G	G-E	F
Electrical Properties	E	E	E	E	F	G	P	F	E	E	F-G	O
Flame Resistance	P	P	P	P	G	G	P	G	P	F-G	G	F-G
Nuclear Radiation Resistance	F-G	F-G	F-G	P	F-G	G	F-G	P	G	E	G	E
Water Resistance	G-E	G-E	E	E	G	G-E	G-E	E	G-E	G-E	G-E	G-E
Acid Resistance	F-G	F-G	F-G	F-G	G	E	G	G	G-E	G-E	E	F-G
Alkali Resistance	F-G	F-G	F-G	F-G	G	E	F-G	G	G-E	G-E	E	F-G
Gasoline, Kerosene, Etc. (Aliphatic Hydrocarbons) Resistance	P	P	P	P	G	F	E	G-E	P	F	F	P-F
Benzol, Toluol, Etc. (Aromatic Hydrocarbons) Resistance	P	P	P	P	P-F	F	G	G	F	F	F	P
Degreaser Solvents (Halogenated Hydrocarbons) Resistance	P	P	P	P	P	P-F	P	G	P	F	P	P-G
Alcohol Resistance	F	G	G	F-G	F	G	E	G	P	E	G-E	G

P = Poor
F = Fair
G = Good
E = Excellent
O = Outstanding

Any given property can usually be improved by the use of selective compounding.
Dimensions and weights are nominal; subject to industry tolerance.

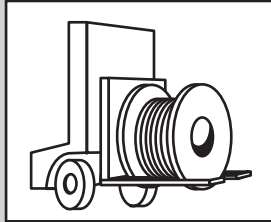


Phone: 888-593-3355
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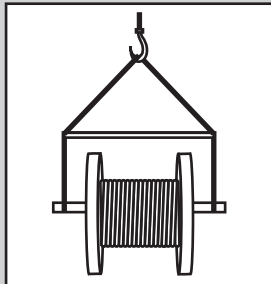
Recommended Reel Handling Practices

How to Handle Cable Reels

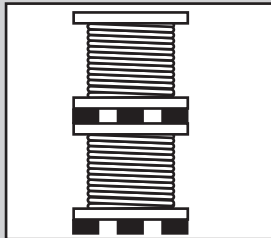
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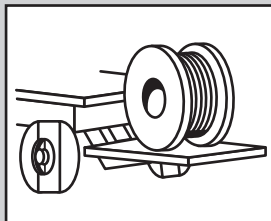
Cradle both reel flanges between forks.



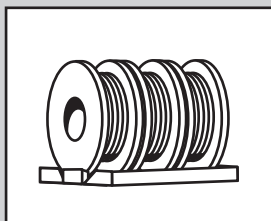
Reels can be hoisted with a shaft extended through both flanges.



Place spacers under the bottom flange and between reels to create a space to insert the forks. (36" reels max.)

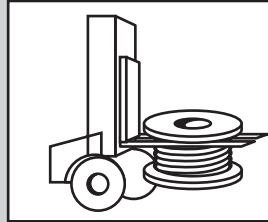


Lower reels from truck using hydraulic gate, hoist or fork lift. LOWER CAREFULLY.

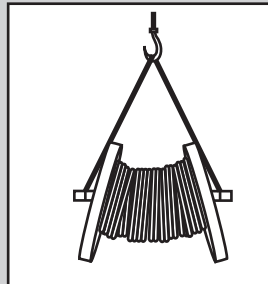


Always load with flanges on edge and chock and block securely.

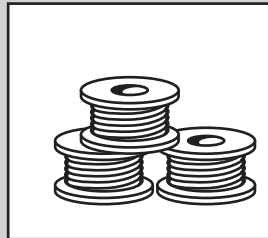
NO



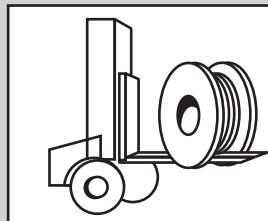
Do not lift by top flange. Cable or reel will be damaged.



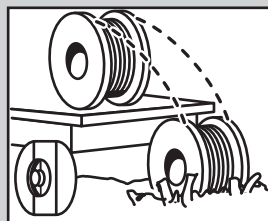
Use a spreader bar to prevent bending the reel flanges and mashing the cable.



Upended heavy reels will often arrive damaged. Refuse or receive subject to inspection for hidden damage.



Never allow forks to touch cable surface or reel wrap.



Never drop reels.

Recommended Cable Handling Practices

Unloading and Moving of Reels:

Cable reels are never shipped upended (flat side down). Cable reels that arrive in this manner should be rejected or received only after a thorough inspection for damage.

See “Recommended Reel Handling Practices” page.

Upon receipt, a cable’s protective covering and/or lagging should be inspected for evidence of damage during shipment. If evidence of damage is found, a report should immediately be made to the carrier.

Under no circumstances should reels be dropped from the delivering vehicle to the ground.

Unloading and reel handling should be accomplished so that the equipment used does not contact the cable surface, and in the case of protective wrap, that the equipment does not contact the protective wrap.

If unloading and reel handling is accomplished by crane, either a cradle supporting the reel flanges or a shaft through the arbor hole should be used. If a fork lift is utilized, the forks must lift the reel at 90° to the flanges and the forks must be long enough to make complete lifting contact with both flanges. Under no circumstances should the forks come into contact with the cable surface or the protective wraps.

When a reel of cable is rolled from one point to another, care must be taken to see that there are no objects on the surface area which could contact or damage the cable surface or protective wrap.

If an inclined ramp is used for unloading, the ramp must be wide enough to contact both flanges completely. The stopping of the reels at the bottom shall be accomplished by using the reel flanges and not the surface of the cable.

Minimum Drum Diameters for Packaging Cables	
Type of Cable	Minimum Drum Diameter as a Multiple of Outside Diameter of Cable
1. Single and multiple conductor cable - unshielded 0-2000 V	10
2. Single and multiple conductor cable - unshielded 2400 V	12
3. Single and multiple conductor cable - wire shield (UniShield®) 5-35 kV	12
4. Single and multiple conductor cable - helically applied tape shield (Uniblend®) 5-35 kV	14
5. Single and multiple conductor cable - longitudinally applied flat tape shield (Type TC)	20
6. Single and multiple conductor cable - Interlocked Armor (Duralox®) 600 V-35 kV	14
7. Triplexed single conductors cabled together. The circumscribing overall diameter* shall be multiplied by the factor in 1 - 6 and then by the reduction factor.	.75

*Single conductor times 2.155 times
NEMA WC26 EEMAC201-2007 Binational Wire and Cable Packaging Standard

Recommended Cable Storage Practices

Storage and Storage Maintenance:

Finished cables have no established shelf-life. Moisture and atmospheric conditions can cause exposed conductors to oxidize and discolor. Uncovered/unsheltered cable will degrade due to exposure to direct sunlight and/or the elements. If the cables are protected, there should be no degradation of the insulation.

In general, any cable for use indoors should be stored indoors. Any cable suitable for installation outdoors is suitable for storage outdoors. Cables stored outdoors should have the ends sealed to prevent moisture ingress into the cable.

Cables should be stored in a sheltered area.

Cables with a cold temperature marking, e.g. -10°C , -25°C , or -40°C , may be stored outdoors. Cables without a cold temperature marking must be stored indoors.

Cable reels must remain in the upright position. Cable reels must not be stored on their sides. Reels must not be stacked.

Cable reels should be stored with the protective covering or lagging in place. If a length of cable has been cut from the reel, the cable end should be immediately resealed to prevent the entrance of moisture. If a part length is returned to storage, the reel's protective covering should be restored.

Wooden reels should be stored off the ground to prevent rotting. Reels should be stored on a flat, hard surface so that flanges do not sink into the earth. The weight of the reel and cable must be carried at all times by the reel flanges.

Cable reels and lagging must not be stored for an extended time period sitting in direct contact with water or dampness. Timbers or metal supports must be placed under the reel flanges to provide elevated storage of the reels away from the direct contact with water or damp soil.

Reels should be stored in an area where construction equipment, falling or flying objects or other materials will not contact the cable.

Cable should be stored in an area where chemicals or petroleum products will not be spilled or sprayed on the cable.

Cable should be stored in an area away from open fires or sources of high heat.

If the reels are relocated, they should be handled as suggested in the "Recommended Reel Handling Practices" section, and inspection made on each reel during the relocation.

If the cables are stored in a secure area and not exposed to the effects of the weather, an annual inspection should be satisfactory.

Where the reels are exposed to the weather, a bimonthly inspection should be performed to observe any sign of deterioration.

If the reels are exposed in a non-secure area, policing of the area at frequent intervals may be required depending on circumstances.

Records of delivery date, manufacturer, installation date, any extenuating circumstances, along with all test reports, should be kept on file.

Pre-Installation Instructions

Pre-Installation

Overview

To ensure safety during cable installation and reliability once the cable is installed, you should confirm the following prior to installation:

- The cable selected is proper for your application
- The cable has not been damaged in transit or storage

Review all applicable state and national codes to verify that the cable chosen is appropriate for the job. Also, consult your local building authority.

Next, you must identify any existing cable damage and prevent any further damage from occurring. This is done through proper cable inspection, handling and storage.

Cable Inspection

Inspect every cable reel for damage before accepting the shipment. Be particularly alert for cable damage if:

- A reel is laying flat on its side
- Several reels are stacked
- Other freight is stacked on a reel
- Nails have been driven into reel flanges to secure shipping blocks
- A reel flange is damaged
- A cable covering is removed, stained or damaged
- A cable end seal is removed or damaged
- A reel has been dropped (hidden damage likely)

Cabling Handling

Remove all nails and staples from the reel flanges before moving a reel, and avoid all objects that could crush, gouge or impact the cable when moving. NEVER use the cable as a means to move a reel.

When unreeling, observe recommended bending radii, use swivels to prevent twisting and avoid overruns.

Installation – Overview and Checklist

Installation

Overview

Most cables are subjected to more mechanical stress during installation than they ever experience in actual operation. Needless to say, handling and pulling your cable according to manufacturer's recommendations is extremely important.

There are six main considerations in any cable installation:

- Ambient temperature
- Equipment
- Conduit fill
- Mechanical fit in raceway
- Physical limitations
- Knowledgeable installers

For more information, reference IEEE 1185 Recommended Practices for Cable Installations in Generating Stations and Industrial Facilities.

Installation Temperature

Low temperatures are a cause for concern when installing cable. Cable should not be installed when temperatures are less than the cold bend temperature rating of the cable product plus 15°C (i.e., minimum installation temperature = cold bend temperature rating + 15°C). The cold bend temperature rating is indicated on the catalog Spec sheet.

Prior to performing a low temperature (less than 10°F or -12°C) cable installation, cable should be stored for a minimum of 24 hours at a temperature of 55°F (13°C) or higher.

Cable should be pulled more slowly and trained in place the same day it is removed from storage. Do not impact, drop, kink or bend cable sharply in low temperatures.

Equipment

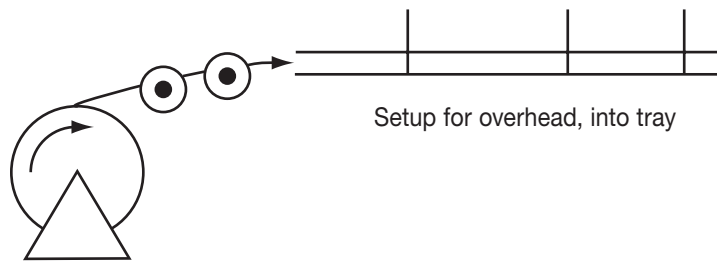
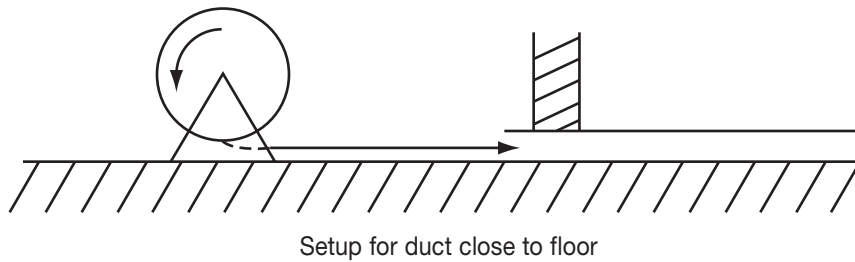
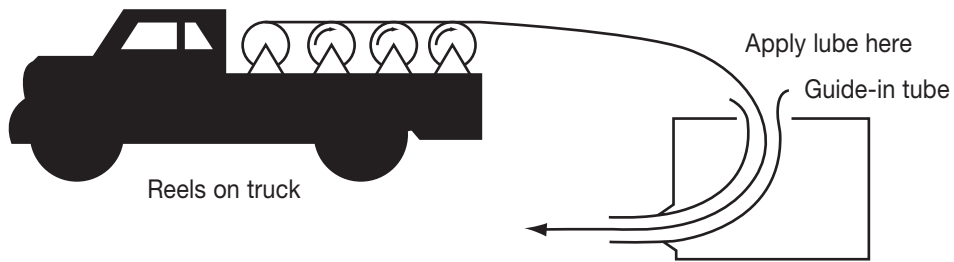
The proper use of appropriate equipment is crucial to a successful cable installation. The equipment needed for most installations is detailed in the following checklist:

- 0-1/5/10 kip dynamometer
- basket grip pullers
- cable cutter
- cable end seals
- cable pulling lubricant
- cable tray bend sheaves
- cable tray rollers
- capstan-type puller
- diameter tape
- duct cleaning mandrels
- electric safety blankets and clamps
- extension cords and GFCI protection
- fish tape or string blower/vacuum
- floodlights
- gang rollers: with at least 4 ft. effective radius
- gloves
- guide-in flexible tubing (elephant trunks)
- hand winches (come-a-long)
- HI-POT tester
- lint-free rags
- make-up air blower & hose
- manhole edge sheave
- measuring tape
- personal protection equipment (PPE)
- plywood sheets
- portable electric generator
- pre-lubing devices
- pulling rope
- pump, diaphragm
- radios or telephones
- reel arbor
- reel brakes
- reel jacks
- several wire rope slings of various lengths
- shackles/clevis
- short ropes for temp tie-offs
- swivels
- warning flags, signs

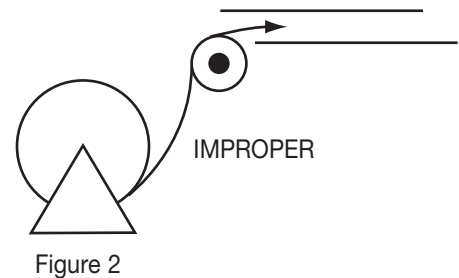
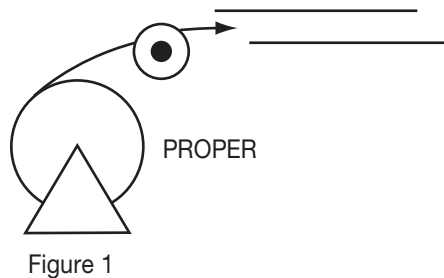
Installation – Feed-In Setups

Cable Feed-In Setups

The following diagrams illustrate various cable feed-in setups:



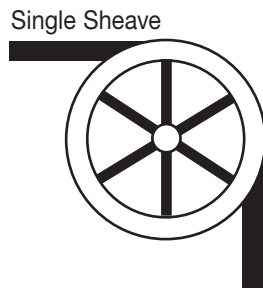
The feed-in setup should unreel the cable with a natural curvature (Figure 1) as opposed to a reverse "S" curvature (Figure 2).



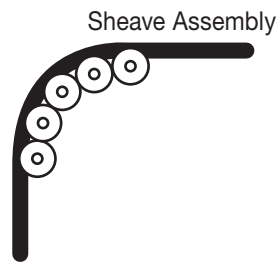
Installation – Feed-In Setups

Cable Feed-In Setups (continued)

Single sheaves should only be used for GUIDING cables. Arrange multiple blocks to maintain bending radii whenever cable changes direction or elevation.



For pulling around bends, use conveyor sheave assemblies of the appropriate radius series.



The pulleys must be positioned to ensure that the effective curvature is smooth and changes direction or elevation evenly at each pulley. Never allow a polygon curvature to occur (Figure 3).

The fit of a pulley around the cable is also important when pulling heavy weights (i.e. pulleys at the top of a vertical drop).

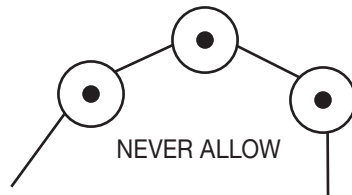
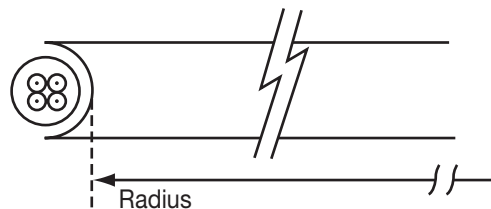


Figure 3

Remember to use the radius of the surface over which the cable is bent, not the outside flange diameter of the pulley. A "10 inch" cable sheave typically has a 10 inch outside flange diameter with a 6 inch inside diameter that provides an inside (bending) radius of 3 inches.



Installation – Conductor Maximum Pulling Tensions

Multi-Conductor Cables Having Equal-Sized Conductors;
In Parallel or as Multiplexed Assemblies

AWG/kcmil	MAXIMUM ALLOWABLE PULLING TENSION (LBS)					
	NUMBER OF CONDUCTORS					
	1	2	3	4	5	6
18	13	26	39	41	52	62
16	20	40	60	65	81	97
14	33	66	99	105	132	158
12	52	104	157	167	209	251
10	83	166	249	266	332	399
8	132	264	396	423	528	634
6	210	420	630	672	840	1008
4	334	668	1002	1069	1336	1603
2	531	1062	1593	1699	2124	2548
1	670	1339	2009	2142	2678	3214
1/0	845	1690	2534	2703	3379	4055
2/0	1065	2130	3194	3407	4259	5111
3/0	1342	2685	4027	4296	5370	6444
4/0	1693	3386	5078	5417	6771	8125
250	2000	4000	6000	6400	8000	9600
350	2800	5600	8400	8960	10000	10000
500	4000	8000	10000	10000	10000	10000
750	6000	10000	10000	10000	10000	10000
1000	8000	10000	10000	10000	10000	10000

The maximum allowable pulling tensions are for direct attachment to the conductor.

$$T = 0.008 \times \text{cmil} \times n, \text{ if } n \leq 3$$

$$T = 0.008 \times \text{cmil} \times n \times 0.8, \text{ if } n > 3$$

When more than two conductors are pulled in parallel in an installation containing bends, the maximum allowable pulling tension is limited to the two conductor column, regardless of the number of conductors that are being pulled.

Installation – Conductor Maximum Pulling Tensions

Multi-Conductor Cables Having Equal-Sized Conductors, without Subassemblies

NUMBER OF CONDUCTORS	MAXIMUM ALLOWABLE PULLING TENSION (LBS)				
	CONDUCTOR SIZE (AWG/kcmil)				
	18	16	14	12	10
2	26	40	66	104	166
3	39	60	99	157	249
4	41	65	105	167	266
5	52	81	132	209	332
6	62	97	158	251	399
7	73	113	184	293	465
8	83	129	210	334	531
9	93	145	237	376	598
10	104	161	263	418	664
12	124	194	316	502	797
14	145	226	368	585	930
15	156	242	395	627	996
16	166	258	421	669	1000
18	187	290	473	752	1000
19	197	306	500	794	1000
20	207	323	526	836	1000
22	228	355	549	919	1000
24	249	387	631	1000	1000
25	259	403	658	1000	1000
30	311	484	789	1000	1000
37	383	596	974	1000	1000

The maximum allowable pulling tensions are for multi-conductor cables pulled into a raceway or cable tray using a basket grip or similar device secured directly to the cable jacket. It is recommended that a combination of basket grips and pulling eyes be used whenever possible.

$$T = 0.008 \times \text{cmil} \times n, \text{ if } n \leq 3$$

$$T = 0.008 \times \text{cmil} \times n \times 0.8, \text{ if } n > 3$$

Installation – Training and Bending Limitations

Physical Limitations Training and Bending

Overview

Training is the positioning of cable when it is not under tension. Bending is the positioning of cable when it is under tension. When installing cable, the object is to limit the mechanical forces so that the cable's physical and electrical characteristics are maintained for the expected service life. Bends in conductors, multi-conductor cables or assemblies of conductors shall be made so that the cable will not be damaged.

A nonshielded cable can tolerate a sharper bend than a shielded cable. This is especially true for cables having helically applied metallic shielding tapes which, when bent too sharply, can separate or buckle and cut into the insulation. Remember that offsets are bends.

The problem is compounded by the fact that most tapes are under jackets that conceal such damage. The extruded polymers used for insulation shields have sufficient conductivity and coverage initially to pass acceptance testing, then fail prematurely due to corona at the shield/insulation interface.

Minimum Bending Radius in Accordance with National Electric Code

Voltage	Conductors	Shielding	Cable Types	Minimum Bending Radius as a Multiple of Conductor/Assembly Diameter			
600 V	Single	Nonshielded	All	5X			
601-2000 V			All	8X			
600 V or 2000 V	Multi-conductor or Multiplexed	Nonshielded	TC or TC-ER	1 in. (25 mm) or less	Over 1 in. to 2 in. (>25 mm to 50 mm)	Over 2 in. (>50 mm)	
				4X	5X	6X	
			MC ³	7X			
		Shielded	All	12X			
			TC or TC-ER	12X			
			MC	12X/7X ¹			
Over 2000 V	Single	Nonshielded	MV	8X			
			MC ³	7X			
	Multi-conductor or Multiplexed	Shielded	MC and MV	12X ²			
			Nonshielded	MC and MV	8X		
			Shielded	MC and MV	12X/7X ^{1,2}		

¹ 12 times the diameter of an individual shielded conductor or 7 times the overall cable diameter, whichever is greater.
² Since UniShield[®] is a unique construction, there are no applicable values for the bending radius in the NEC. However, General Cable recommends 8 times for single conductors, and for multiplexed or multi-conductor cables, it is 8 times the diameter of the individual conductors or 5 times the overall diameter, whichever is greater, in accordance with ANSI/ICEA S-93-639 5-46 kV *Shielded Power Cable for Use in the Transmission and Distribution of Electric Energy*.
³ Per 330.24B Interlocked-Type Armor or Continuously Corrugated Metallic Sheath.

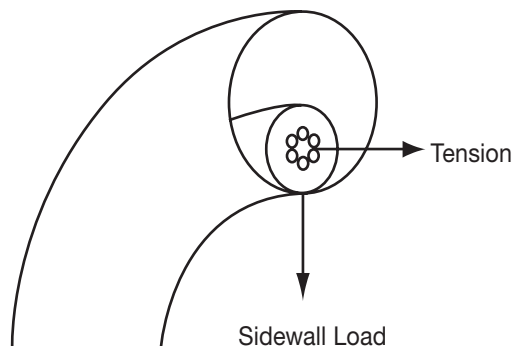
Installation – Maximum Sidewall Pressure

Overview

Sidewall bearing pressure (SWBP), or sidewall loading, is the radial force exerted on a cable being pulled around a conduit bend or sheave. Excessive SWBP can crush a cable and is, therefore, one of the most restrictive factors in installations having bends and requiring high pulling tensions. SWBP is reduced by increasing the radius of bends.

The maximum tension that can safely be applied to the cable during installation can be calculated using the maximum SWBP for the cable and the radius of the bend it is traversing.

For example, a cable having a maximum SWBP of 300 lb/ft that is being pulled around a bend having a radius of 2 feet should have no more than 300 lbs/ft x 2 ft or 600 lbs tension applied to it as the cable exits the bend.



CABLE TYPE	SWBP (LBS/FT)
300 V Nonshielded, 300 V and 600 V Shielded Control & Instrumentation	500
600 V Nonshielded Control & Instrumentation	500
600 V and 2400 V Nonshielded Power	1000
5 kV-35 kV Shielded Power	1000
Interlocked Armored Cable (all voltage)	300
CCW® MC-HL Armored Cable	500

General Cable’s Approval List of Cable Pulling Lubricants

The following manufacturers, who are listed in the 2006 UL Electrical Construction Equipment Directory, provide wire pulling compounds intended for use as lubricants in installing electrical conductors in raceways. These manufacturers have had some of their products evaluated by Underwriters Laboratories (UL) to determine their compatibility with conductor insulation and coverings.

Since it is not feasible to test every possible combination of cable material with every wire pulling compound, the installer should check with the pulling compound manufacturer or the cable manufacturer to determine compatibility between specific cable materials and the pulling compound.

The Listing Mark for these products includes the UL symbol, together with the word “LISTED,” a control number and the product name “Wire Pulling Compound.” Refer to the latest edition of the UL Electrical Construction Equipment Directory for the current listing of manufacturers of wire pulling compounds and their control numbers.

- | | |
|---------------------------------------|---|
| 3 M Company | J. C. Whitlam Mfg. Co. |
| American Bentonite International Inc. | Klein Tools Inc. |
| American Polywater Corp. | Madison Electric Products Inc. |
| Arnco Corp. | Rainbow Technology Corp. |
| Dura-Line Corp. | Rectorseal |
| Formulated Solutions LLC | Robinette Inc., DBA Electro Compounds Co. |
| Compound Co. | Thomas & Betts Corp. |
| Greenlee Textron | |
| Ideal Industries Inc.* | |

*Yellow 77 not recommended for use with UniShield® cables.

For LSZH jacketed cable, consult with pulling compound manufacturers.

Other wire pulling compounds may be suitable for use with General Cable constructions. Contact the wire pulling compound manufacturer regarding the suitability of their products with specific General Cable products.

DC “HI-POT” Pre-Test Guidelines for MV Cables

The test voltage should be increased in steps of 10 kV, or minimum of 5 steps. The duration at each step should be long enough for the current to reach a steady value (1 minute suggested). The test current will momentarily increase for each voltage increment due to charging of the capacitance and the dielectric absorption characteristics of the insulation. Stabilized current should be recorded at each step.

The maximum test voltage should be maintained for 15 minutes (new cable, shielded) / 5 minutes (nonshielded). Leakage current should be recorded each minute after the maximum test voltage has been reached.

Increase of leakage current at any step may be an indication of a cable insulation problem. Failure of the cable or cable accessories may result unless the voltage is rapidly reduced.

Otherwise, the leakage current should stabilize after about 5 minutes. Leakage current is essentially a function of the construction and length of cable, but it can be influenced by the test conditions (wind and humidity) as well as the test apparatus (leads).

Typical leakage currents in the order of 100 – 150 microamperes or higher are not unusual. A defective installation is identified by increasing leakage current with time, at a fixed DC voltage.

All testing should be performed by qualified personnel taking all appropriate safety precautions.

DC “HI-POT” Testing Guidelines for MV Cables

DC High Potential (HI-POT) Testing of Medium-Voltage Power Cable

Overview

This procedure is intended to provide general guidelines for high potential DC testing of power cables.

All tests made after cable installation and during the guarantee period shall be made in accordance with applicable specifications.

All safety precautions must be observed during testing at high voltage.

Read, understand and follow the Operator’s Manual for the particular test set being used!

Test Equipment

Direct current test equipment is available commercially with a wide range of voltages. Accessory equipment necessary to safely conduct high voltage tests—such as safety barriers, rubber gloves and nonconducting hard hats—must be used; consult appropriate safety officer.

Test Procedures

See IEEE Standard 400 Article 5 Direct Voltage Testing. Acceptable procedures, although varying slightly in technique, have more or less been standardized as either a “withstand test” or a “time-leaking current test.”

Before performing any DC overpotential tests:

- All equipment must be disconnected from the cable circuit, i.e., taps, motors, circuit breakers, surge arrestors, etc. This will preclude damage to such equipment and will prevent test interruptions due to flashovers and/or trip-outs resulting from excessive leakage current.
- Establish adequate clearance between the circuit test ends and any grounded object, and to other equipment not under test (about 2.5 feet).
- Ground all circuit conductors not under test with all cable shields including nearby equipment.
- Consult termination manufacturers for maximum test voltage recommendations and time limitations.

The direct current test voltage may be applied either continuously or in predetermined steps to the maximum value in accordance with applicable specifications.

- **Continuous Method** – Apply test voltage at an approximate rise rate of 1 kV per second or 75% of the rated current output of the equipment, whichever is less. Some equipment will take longer to reach the maximum test voltage because of the amount of charging current.
- **Step Method** – Apply test voltage slowly in 5 to 7 increments of equal value to the maximum specified. Allow sufficient time at each stop for the leakage current to stabilize.

HI-POT TESTING PROCEDURES

Normally this requires only a few seconds unless cable circuits of high capacitance are involved.

Record leakage current at each step.

Maintain the test voltage at the prescribed value for the time designated in applicable specifications. The following times are usually considered adequate. At the end of the test period, set the test set voltage control to zero, allow the residual voltage on the circuit to decay, then ground the conductor just tested.

CAUTION

It should be recognized that DC charges on cable can build up to potentially dangerous levels if grounds are removed too quickly. Maintain solid grounds after the test on the cable for at least 4 times the duration of the test. On exceptionally long cable lengths, it may be necessary to increase the grounding time. It is advantageous to maintain these grounds longer and while reconnecting circuit components.

- **Acceptance Testing** – After installation and before the cable is placed in regular service, the specified test voltage shall be applied for **15 consecutive minutes.**
- **Proof Testing** – At any time during the period of guarantee, the cable circuit may be removed from service and tested at a reduced voltage (normally 65 percent of the original acceptance value) for **5 consecutive minutes.**
- Record the leakage current at one minute intervals for the duration of the test time involved.

DC “HI-POT” Testing Guidelines for MV Cables

DC High Potential (HI-POT) Testing of Medium-Voltage Power Cable

Comments

The significance of conducting DC high-voltage tests on nonshielded, nonmetallic-sheathed cable is dependent upon the environment in which it is installed because the characteristics of the return circuits are unknown. The environment must be carefully considered, or test results may not be significant. In fact, these tests can result in damage to the cable insulation.

Humidity, condensation and actual precipitation on the surface of a cable termination can increase the leakage current by several orders of magnitude. Humidity also increases the corona current, which indication is included in the total leakage current. Wind prevents the accumulation of space charges at all bare energized terminals.

This results in an increase of corona. It is most desirable to reduce or eliminate corona current at the bare metal extremities of cable or terminations. This may be accomplished by covering these areas with plastic envelopes, plastic or glass containers, plastic wrap or suitable electrical putty.

Routine periodic DC maintenance testing of cable for the evaluation of the insulation strength is not a common practice. Some power cable users have adopted a program of testing circuits during planned outages, preferring possible breakdowns during testing rather than experiencing a service outage. It is nearly impossible to recommend test voltage values for those maintenance tests with the history of the cable circuit. An arbitrary test voltage level could break down a cable circuit that would otherwise render long trouble-free service at normal operating AC voltage.

The main usefulness of DC high-voltage testing is to detect conducting particles left on the creepage surface during splicing or termination.

Test equipment should be supplied from a stable, constant voltage source. Do not use the same source that is supplying arc welders or other equipment causing line voltage fluctuations. The output voltage of the test set must be filtered and regulated. Consider using a portable, motor-driven alternator to energize the test set.

The gradual decrease or non-increase of leakage current with respect to time at maximum test voltage is the acceptance criteria for DC HI-POT testing.

Testing Problems

Extra Leakage Current:

- Failure to guard against corona
- Failure to clean insulation surface
- Failure to keep cable ends dry
- Failure to provide adequate clearance to ground
- Improper shield termination

Erratic Readings:

- Fluctuating voltage to test set
- Improper test leads

Environmental Influences:

- High relative humidity
- Dampness, dew, fog
- Wind, snow

Results vs. Cable Life

To date there is no basis for correlation between DC test results and cable life expectancy.

Field Electrical “HI-POT” Testing Guidelines

Acceptance Testing

Acceptance testing is performed to detect any defects in cable insulation and terminations which may have resulted from poor workmanship or mechanical damage. This proof test confirms the integrity of the insulation and accessories before the cable is placed into service.

After installation and before the cable is placed in regular service, the test voltages specified in the ICEA S-97-682 Table should be applied for 15 consecutive minutes. Record the leakage current at one minute intervals for the duration of the test.

ICEA DC Field Test Voltages
ICEA S-97-682 Utility Shielded Power Cables Rated 5,000-46,000 Volts

Rated Voltage Phase-to-Phase (kV)	Conductor Size		Nominal Insulation Thickness (Insulation Level)				Maximum DC Field Test Voltages (kV)			
							During or After Installation		First 5 Years	
	AWG/kcmil	mm²	100%		133%		100%	133%	100%	133%
			mils	mm	mils	mm				
5	8 - 1000	8.4 - 507	90	2.29	115	2.92	28	36	9	11
	> 1000	> 507	140	3.56	140	3.56				
8	6 - 1000	13.3 - 507	115	2.92	140	3.56	36	44	11	14
	> 1000	> 507	175	4.45	175	4.45				
15	2 - 1000	33.6 - 507	175	4.45	220	5.59	56	64	18	20
	> 1000	> 507	220	5.59						
25	1 - 2000	42.4 - 1013	260	6.60	320	8.13	80	96	25	30
28	1 - 2000	42.4 - 1013	280	7.11	345	8.76	84	100	26	31
35	1/0 - 2000	53.5 - 1013	345	8.76	420	10.7	100	124	31	39
46	4/0 - 2000	107.2 - 1013	445	11.3	580	14.7	132	172	41	54

DC test voltages are applied to discover gross problems such as improperly installed accessories or mechanical damage. DC testing is not expected to reveal deterioration due to aging in service. There is some evidence that DC testing of aged cross-linked polyethylene cables can lead to early cable failures. Information on this subject is available in EPRI project report TR-101245, "Effect of DC Testing in Extruding Cross-Linked Polyethylene Insulated Cables."

Dimensions and weights are nominal; subject to industry tolerances.

Emergency Overload Current Guidelines

The increase or decrease of the load current is not associated with an instantaneous change of the cable temperature. Hence, during emergency conditions, the cable may be overloaded for short periods of time at the maximum overload temperature of 130°C/140°C for cable rated at 90°C/105°C continuous.

Operations at the emergency overload temperature shall not exceed 1500 cumulative hours during the lifetime of the cable. Lower temperature for emergency overload conditions may be required due to the type of material used in the cable splices and terminations or environmental conditions.

Short Circuit Current Calculation Overview

The maximum short circuit current which is permitted to flow in the insulated conductor, or the metallic shielding and bonding (grounding) components, is dependent on the duration of the short circuit and the material used in the cable.

Insulated Conductors Formula

The graphs on the following pages show the short circuit capability of 10 AWG to 1000 kcmil, copper and aluminum, XLPE and EPR insulated conductors for various periods of time. These graphs are in accordance with ICEA publication P-32-382. The equations are based on the assumption that the duration of the short circuit is so short that the heat generated is contained within the conductor, taking into consideration the temperature limit of the insulation.

The graphs are derived from the following formula:

$$\begin{aligned} \text{Copper Conductor } \left[\frac{I}{A} \right]^2 & t = 0.0297 \log_{10} \left[\frac{T_2 + 234}{T_1 + 234} \right] \\ \text{Aluminum Conductor } \left[\frac{I}{A} \right]^2 & t = 0.0125 \log_{10} \left[\frac{T_2 + 228}{T_1 + 228} \right] \end{aligned}$$

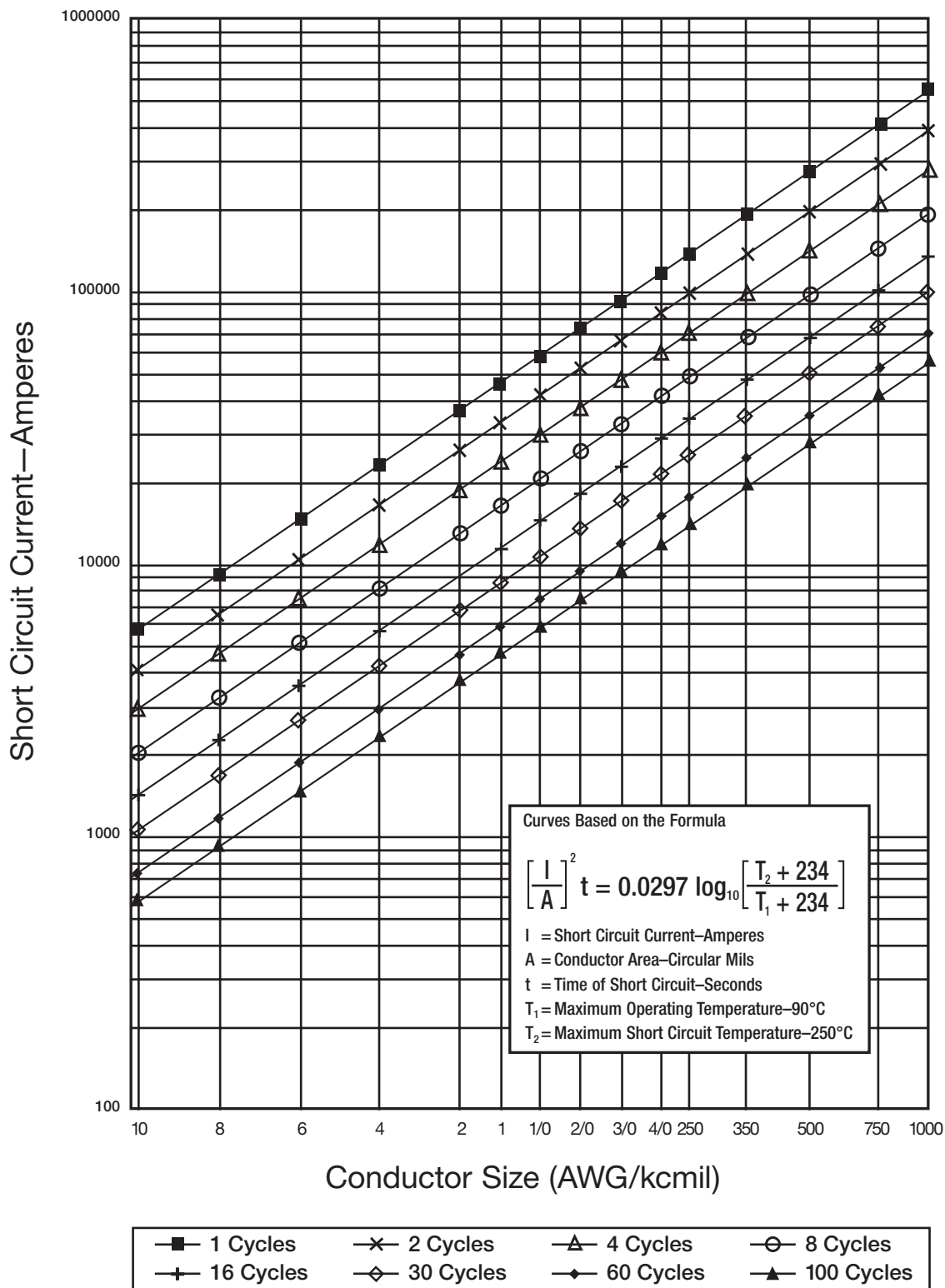
Which simplify to:

$$\begin{aligned} \text{Copper Conductor } I &= \frac{0.07195 A}{\sqrt{t}} && \text{amperes for MV-90} \\ \text{Copper Conductor } I &= \frac{0.06773 A}{\sqrt{t}} && \text{amperes for MV-105} \\ \text{Aluminum Conductor } I &= \frac{0.0470 A}{\sqrt{t}} && \text{amperes for MV-90} \\ \text{Aluminum Conductor } I &= \frac{0.044 A}{\sqrt{t}} && \text{amperes for MV-105} \end{aligned}$$

Where: I = Short circuit current (amperes)
A = Conductor cross-sectional area (circular mils)
t = Short circuit duration (seconds)
T₁ = Maximum normal operating temperature, 90°C for MV-90 or 105°C for MV-105
T₂ = Maximum short circuit temperature, 250°C

Short Circuit Currents

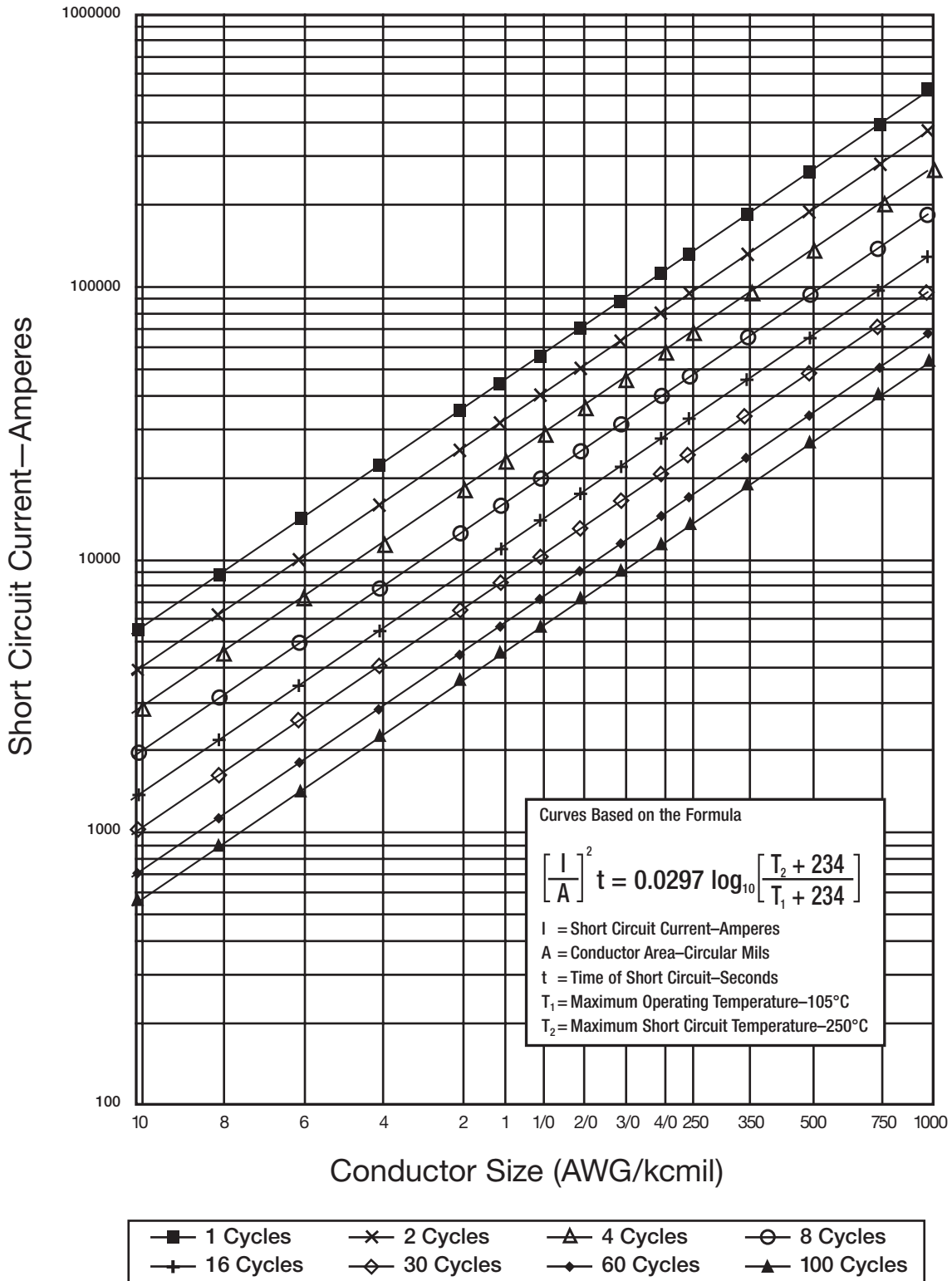
Allowable Short Circuit Currents For Thermoset Insulated Copper Conductors Rated For 90°C Maximum Continuous Operation



Reference P-32-382-2007, reprinted in part with permission of ICEA. This excerpt is not intended to replace the standard in its entirety. ICEA standards are subject to periodic review and revision. Complete texts of this and all ICEA standards are available at IHS.

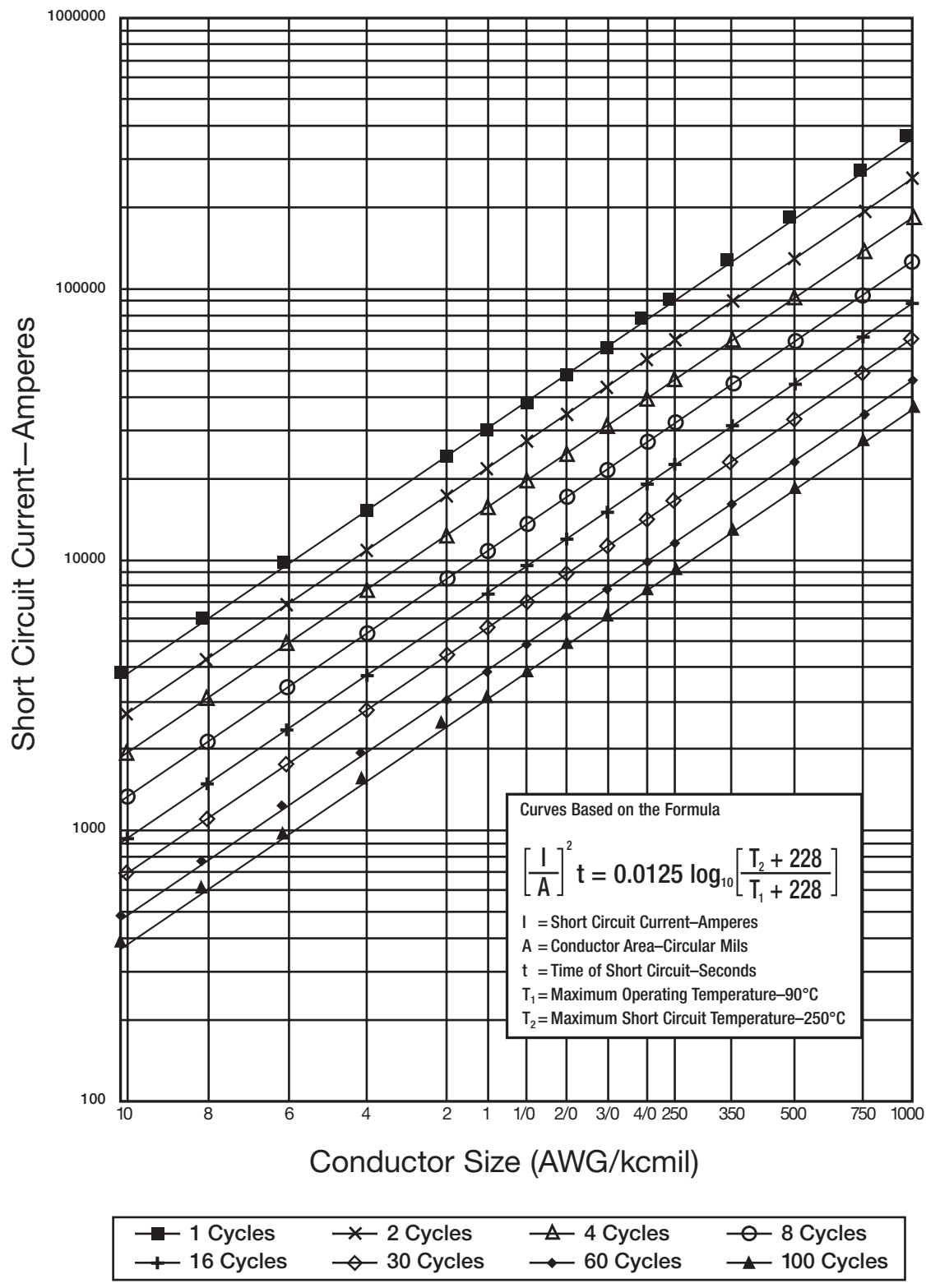
Short Circuit Currents

Allowable Short Circuit Currents For Thermoset Insulated Copper Conductors
Rated For 105°C Maximum Continuous Operation



Short Circuit Currents

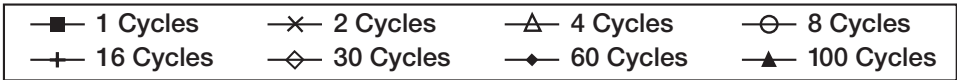
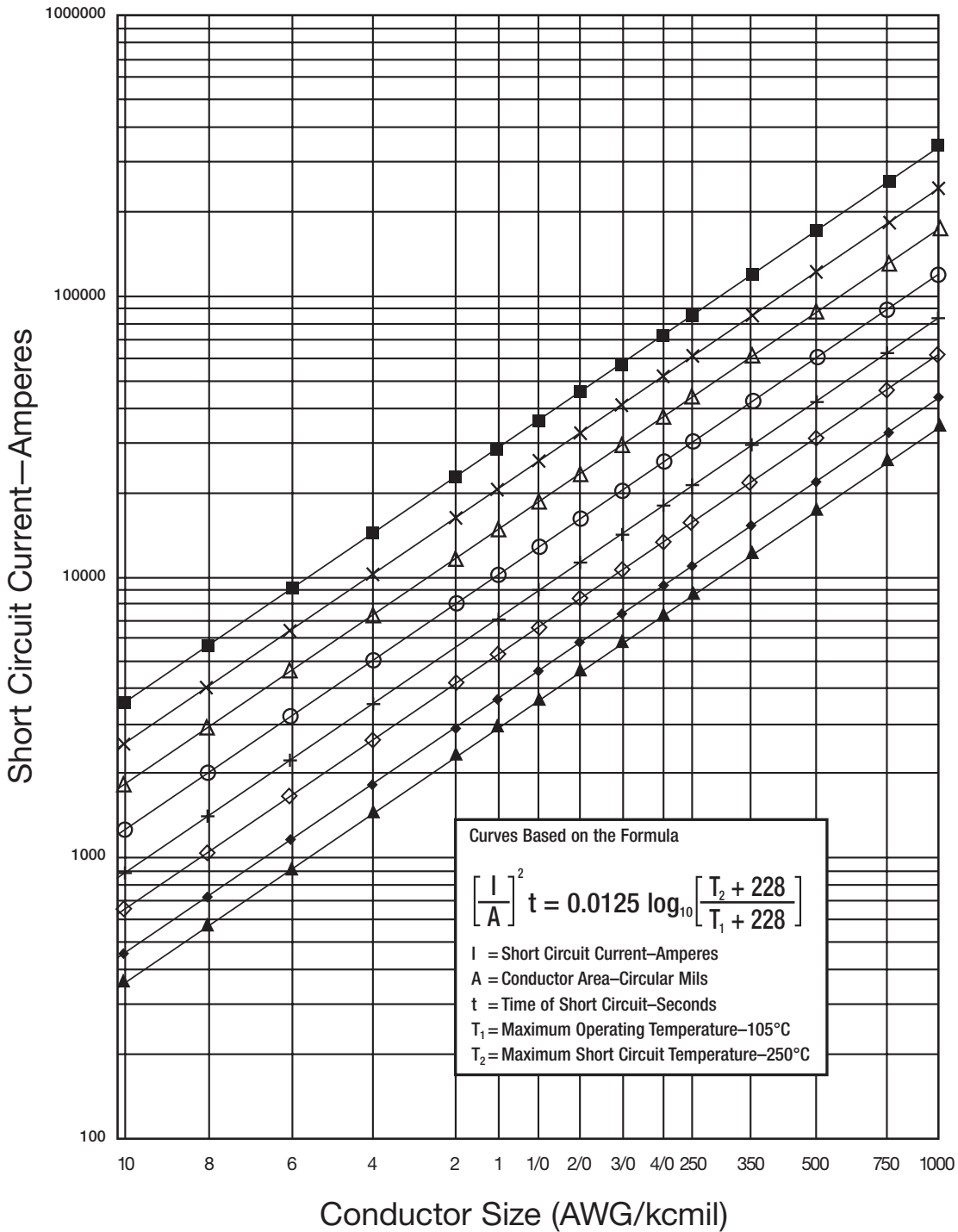
Allowable Short Circuit Currents For Thermoset Insulated Aluminum Conductors Rated For 90°C Maximum Continuous Operation



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Short Circuit Currents

Allowable Short Circuit Currents For Thermoset Insulated Aluminum Conductors
Rated For 105°C Maximum Continuous Operation



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Short Circuit Current for Copper Shields

Formula—Short Circuit Current for Copper Shields

In the *three conductor* cables, a copper tape is applied over each extruded semi-conducting insulation shield with a helical gap. Because the three copper tape shields are cabled in intimate contact with the bonding (grounding) conductor, their combined total cross-sectional areas may be considered an integral shielding system for the purpose of calculating short circuit capacity. It is not possible however, to determine the contact resistance between the components, due to possible oxides or film which may form on the components or movement of the cable core during handling. It may be advisable to consider the short circuit capacity of the individual shields independently. Because the insulation shields are in thermal contact with the inner PVC jacket, the maximum short circuit temperature T2 is 200°C. Refer to ICEA P-45-482, "Short Circuit Performance of Metallic Shields and Sheaths on Insulated Cable," for calculations involving cables that have other operating parameters.

Under these temperature conditions the short circuit current formula is:
$$I = \frac{M \cdot A}{\sqrt{t}} \text{ amperes}$$

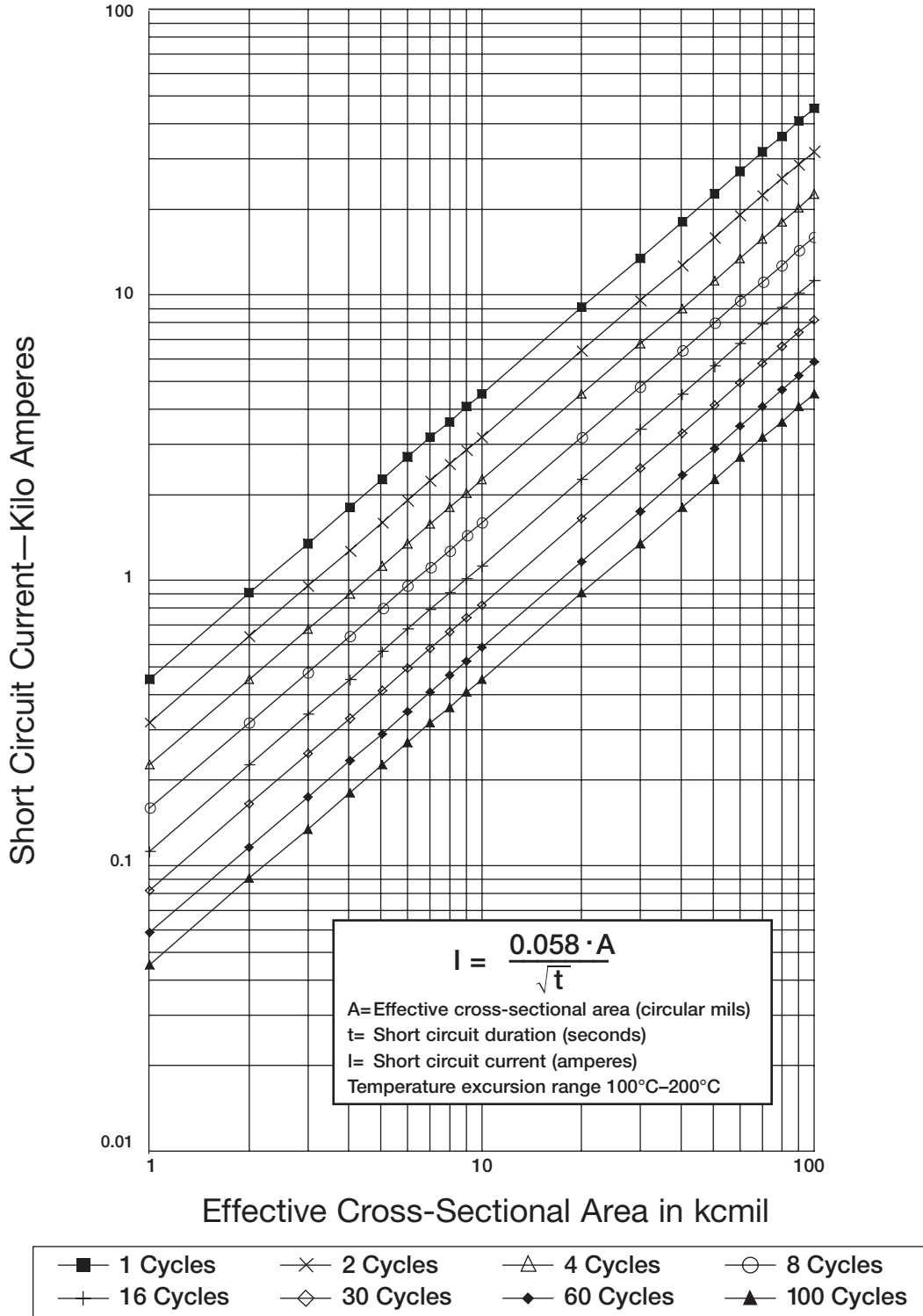
TYPE OF SHIELD OR SHEATH	FORMULA FOR CALCULATING A
1. Wires applied either helically, as a braid or serving; or longitudinally with corrugations	nd_s^2
2. Helically applied tape, not overlapped	$1.27 nwb$
3. Helically applied flat tape, overlapped	$4 bd_m \times \sqrt{\frac{100}{2(100-L)}}$
4. Corrugated tape, longitudinally applied	$1.27[\pi(d_{is}+50)+B]b$
5. Tubular sheath	$4 bd_m$

Meaning of Symbols:

- A = Effective cross-sectional area, shield or sheath
- B = Tape overlap (mils) (usually 375)
- b = Thickness of tape (mils)
- d_{is} = Diameter over semiconducting insulation shields (mils)
- d_m = Mean diameter of shield or sheath (mils)
- d_s = Diameter of wires (mils)
- I = Short circuit current (amperes)
- w = Width of tape (mils)
- n = Number of serving or braid wires or tapes
- L = Overlap of tape (percent)
- t = Short circuit duration (seconds)
- M = 0.058 for 5-15 kV cables
0.060 for 25-46 kV cables

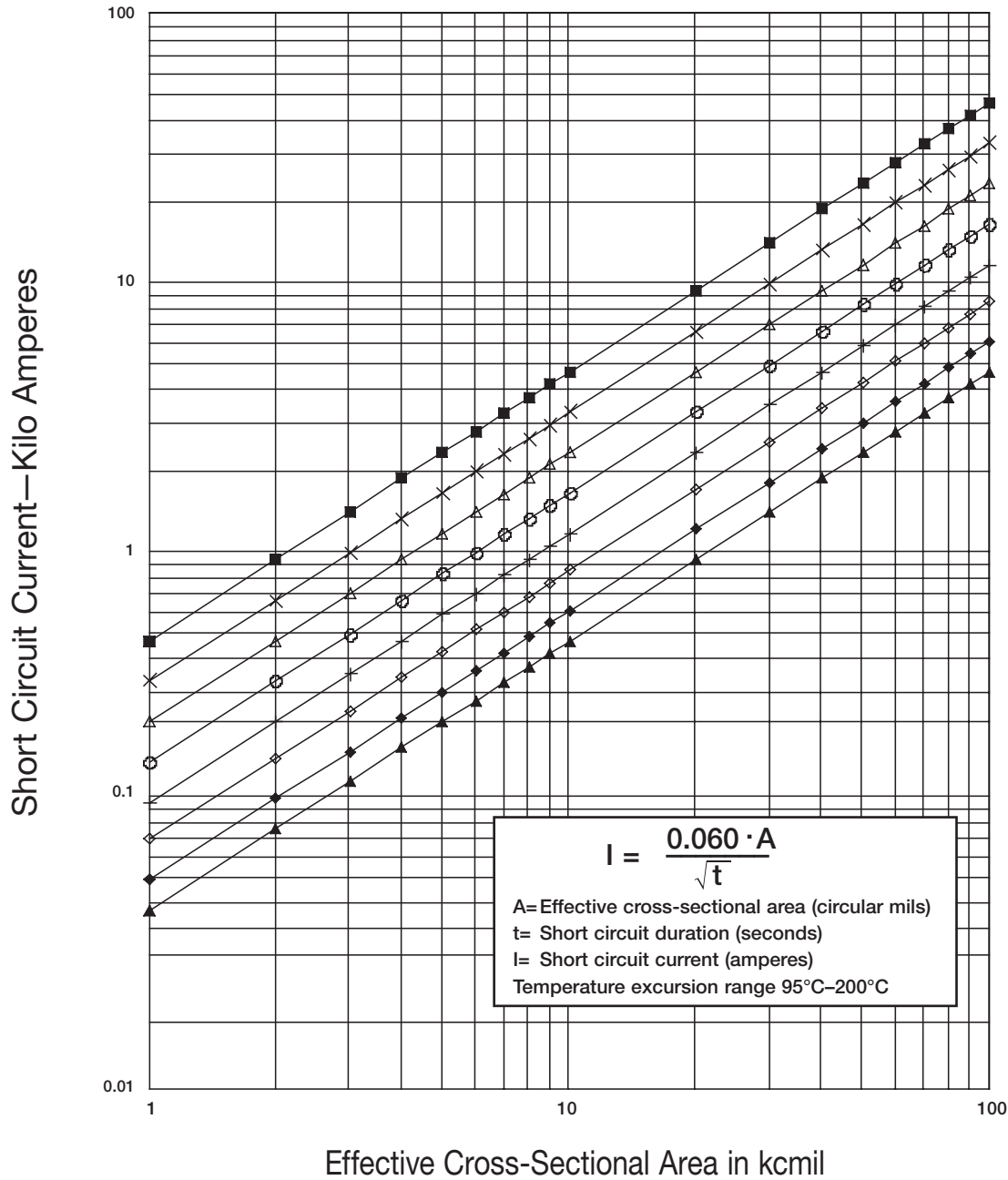
Formula – Short Circuit Currents for Copper Shields

Allowable Copper Shield Short Circuit Currents for 5–15 kV



Formula – Short Circuit Currents for Copper Shields

Allowable Copper Shield Short Circuit Currents for 25–46 kV



- | | | | |
|-------------|-------------|-------------|--------------|
| ■ 1 Cycles | × 2 Cycles | ▲ 4 Cycles | ○ 8 Cycles |
| + 16 Cycles | ◇ 30 Cycles | ◆ 60 Cycles | ▲ 100 Cycles |

Part Number Index

CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE
9500.01004110.....	SPEC 9500	9600.01404318.....	SPEC 9600	9650.104144000.....	SPEC 9650	9845.21003104.....	SPEC 9845
9500.01006110.....	SPEC 9500	9600.11003310.....	SPEC 9600	9650.123143000.....	SPEC 9650	9845.25003103.....	SPEC 9845
9500.01008110.....	SPEC 9500	9600.11004106.....	SPEC 9600	9650.123144000.....	SPEC 9650	9845.35003102.....	SPEC 9845
9500.01011110.....	SPEC 9500	9600.21003310.....	SPEC 9600	9650.124143000.....	SPEC 9650	9845.41003103.....	SPEC 9845
9500.01202112.....	SPEC 9500	9600.21004106.....	SPEC 9600	9650.124144000.....	SPEC 9650	9845.50003101.....	SPEC 9845
9500.01203112.....	SPEC 9500	9600.25003308.....	SPEC 9600	9675.00103310.....	SPEC 9675	9855.00103104.....	SPEC 9855
9500.01204112.....	SPEC 9500	9600.25004104.....	SPEC 9600	9675.00203310.....	SPEC 9675	9855.11003104.....	SPEC 9855
9500.01205112.....	SPEC 9500	9600.31003308.....	SPEC 9600	9675.00403312.....	SPEC 9675	9855.21003104.....	SPEC 9855
9500.01206112.....	SPEC 9500	9600.31004104.....	SPEC 9600	9675.00603312.....	SPEC 9675	9855.25003103.....	SPEC 9855
9500.01208112.....	SPEC 9500	9600.35003307.....	SPEC 9600	9675.00803314.....	SPEC 9675	9855.35003102.....	SPEC 9855
9500.01211112.....	SPEC 9500	9600.35004103.....	SPEC 9600	9675.01003316.....	SPEC 9675	9855.41003103.....	SPEC 9855
9500.01218112.....	SPEC 9500	9600.41003308.....	SPEC 9600	9675.01203318.....	SPEC 9675	9855.50003101.....	SPEC 9855
9500.01236112.....	SPEC 9500	9600.41004104.....	SPEC 9600	9675.11003310.....	SPEC 9675	9875.11003104.....	SPEC 9875
9500.01402114.....	SPEC 9500	9600.50003306.....	SPEC 9600	9675.21003310.....	SPEC 9675	9875.21003104.....	SPEC 9875
9500.01403114.....	SPEC 9500	9600.50004102.....	SPEC 9600	9675.25003308.....	SPEC 9675	9875.25003103.....	SPEC 9875
9500.01404114.....	SPEC 9500	9600.75003305.....	SPEC 9600	9675.35003308.....	SPEC 9675	9875.35003102.....	SPEC 9875
9500.01405114.....	SPEC 9500	9600.75004101.....	SPEC 9600	9675.41003308.....	SPEC 9675	9875.41003103.....	SPEC 9875
9500.01406114.....	SPEC 9500	9600.10003110.....	SPEC 9600	9675.50003306.....	SPEC 9675	9875.50003101.....	SPEC 9875
9500.01408114.....	SPEC 9500	9600.10004110.....	SPEC 9600	9700.00103308.....	SPEC 9700	9900.15744.....	SPEC 9900
9500.01411114.....	SPEC 9500	9615.00103310.....	SPEC 9615	9700.00203310.....	SPEC 9700	9900.27901.....	SPEC 9900
9500.01418114.....	SPEC 9500	9615.00203310.....	SPEC 9615	9700.00403310.....	SPEC 9700	9900.KS226.....	SPEC 9900
9500.01436114.....	SPEC 9500	9615.00403312.....	SPEC 9615	9700.00603310.....	SPEC 9700	9900.PS526.....	SPEC 9900
9510.01004110.....	SPEC 9510	9615.00603312.....	SPEC 9615	9700.00803312.....	SPEC 9700	11206.332083.....	SPEC 8125
9510.01204112.....	SPEC 9510	9615.00803314.....	SPEC 9615	9700.10003304.....	SPEC 9700	11281.015400.....	SPEC 8700
9510.01205112.....	SPEC 9510	9615.01003314.....	SPEC 9615	9700.11003308.....	SPEC 9700	11281.016000.....	SPEC 8700
9510.01207112.....	SPEC 9510	9615.01203316.....	SPEC 9615	9700.21003308.....	SPEC 9700	11281.016200.....	SPEC 8700
9510.01209112.....	SPEC 9510	9615.01403318.....	SPEC 9615	9700.25003307.....	SPEC 9700	11281.016500.....	SPEC 8700
9510.01404114.....	SPEC 9510	9615.11003310.....	SPEC 9615	9700.35003306.....	SPEC 9700	11281.016700.....	SPEC 8700
9510.01405114.....	SPEC 9510	9615.21003306.....	SPEC 9615	9700.41003307.....	SPEC 9700	11281.017000.....	SPEC 8700
9510.01407114.....	SPEC 9510	9615.25003304.....	SPEC 9615	9700.50003305.....	SPEC 9700	11281.017500.....	SPEC 8700
9510.01409114.....	SPEC 9510	9615.35003302.....	SPEC 9615	9700.75003304.....	SPEC 9700	11281.030100.....	SPEC 8750
9510.01412114.....	SPEC 9510	9615.41003304.....	SPEC 9615	9800.00103308.....	SPEC 9800	11281.030200.....	SPEC 8750
9510.01419114.....	SPEC 9510	9615.50003301.....	SPEC 9615	9800.00203310.....	SPEC 9800	11281.030400.....	SPEC 8750
9510.01437114.....	SPEC 9510	9625.043124108.....	SPEC 9625	9800.00403310.....	SPEC 9800	11281.030600.....	SPEC 8750
9510.012121112.....	SPEC 9510	9625.063124108.....	SPEC 9625	9800.00603310.....	SPEC 9800	11281.035100.....	SPEC 8750
9525.01002000.....	SPEC 9525	9625.083124110.....	SPEC 9625	9800.10003304.....	SPEC 9800	11281.035200.....	SPEC 8750
9525.01003000.....	SPEC 9525	9625.103124110.....	SPEC 9625	9800.11003308.....	SPEC 9800	11281.035300.....	SPEC 8750
9525.01004000.....	SPEC 9525	9650.023123000.....	SPEC 9650	9800.21003308.....	SPEC 9800	11281.035400.....	SPEC 8750
9525.01005000.....	SPEC 9525	9650.023124000.....	SPEC 9650	9800.25003307.....	SPEC 9800	11281.036000.....	SPEC 8750
9525.01007000.....	SPEC 9525	9650.023143000.....	SPEC 9650	9800.35003306.....	SPEC 9800	11281.036200.....	SPEC 8750
9525.01009000.....	SPEC 9525	9650.023144000.....	SPEC 9650	9800.41003307.....	SPEC 9800	11281.036500.....	SPEC 8750
9525.01012000.....	SPEC 9525	9650.024123000.....	SPEC 9650	9800.50003305.....	SPEC 9800	11281.036700.....	SPEC 8750
9525.01202000.....	SPEC 9525	9650.024124000.....	SPEC 9650	9800.75003304.....	SPEC 9800	11281.037000.....	SPEC 8750
9525.01203000.....	SPEC 9525	9650.024143000.....	SPEC 9650	9815.00103308.....	SPEC 9815	11281.040100.....	SPEC 8775
9525.01204000.....	SPEC 9525	9650.024144000.....	SPEC 9650	9815.00203310.....	SPEC 9815	11281.040200.....	SPEC 8775
9525.01205000.....	SPEC 9525	9650.043123000.....	SPEC 9650	9815.00403310.....	SPEC 9815	11281.045100.....	SPEC 8775
9525.01207000.....	SPEC 9525	9650.043124000.....	SPEC 9650	9815.00603310.....	SPEC 9815	11281.045200.....	SPEC 8775
9525.01209000.....	SPEC 9525	9650.043143000.....	SPEC 9650	9815.10003304.....	SPEC 9815	11281.045300.....	SPEC 8775
9525.01212000.....	SPEC 9525	9650.043144000.....	SPEC 9650	9815.11003308.....	SPEC 9815	11281.045400.....	SPEC 8775
9525.01219000.....	SPEC 9525	9650.044123000.....	SPEC 9650	9815.21003308.....	SPEC 9815	11281.046000.....	SPEC 8775
9525.01237000.....	SPEC 9525	9650.044124000.....	SPEC 9650	9815.25003307.....	SPEC 9815	11281.046200.....	SPEC 8775
9525.01402000.....	SPEC 9525	9650.044143000.....	SPEC 9650	9815.35003306.....	SPEC 9815	11281.046500.....	SPEC 8775
9525.01403000.....	SPEC 9525	9650.044144000.....	SPEC 9650	9815.41003307.....	SPEC 9815	11281.046700.....	SPEC 8775
9525.01404000.....	SPEC 9525	9650.063123000.....	SPEC 9650	9815.50003305.....	SPEC 9815	11281.047000.....	SPEC 8775
9525.01405000.....	SPEC 9525	9650.063124000.....	SPEC 9650	9815.75003304.....	SPEC 9815	11288.010100.....	SPEC 8150
9525.01407000.....	SPEC 9525	9650.063143000.....	SPEC 9650	9825.00103104.....	SPEC 9825	11288.010200.....	SPEC 8150
9525.01409000.....	SPEC 9525	9650.063144000.....	SPEC 9650	9825.00203106.....	SPEC 9825	11288.010300.....	SPEC 8150
9525.01412000.....	SPEC 9525	9650.064123000.....	SPEC 9650	9825.11003104.....	SPEC 9825	11288.010400.....	SPEC 8150
9525.01419000.....	SPEC 9525	9650.064124000.....	SPEC 9650	9825.21003104.....	SPEC 9825	11288.010600.....	SPEC 8150
9525.01437000.....	SPEC 9525	9650.064143000.....	SPEC 9650	9825.25003103.....	SPEC 9825	11288.015100.....	SPEC 8150
9600.00103310.....	SPEC 9600	9650.064144000.....	SPEC 9650	9825.35003102.....	SPEC 9825	11288.015200.....	SPEC 8150
9600.00104106.....	SPEC 9600	9650.083123000.....	SPEC 9650	9825.41003103.....	SPEC 9825	11288.015300.....	SPEC 8150
9600.00203310.....	SPEC 9600	9650.083124000.....	SPEC 9650	9825.50003101.....	SPEC 9825	11288.015400.....	SPEC 8150
9600.00204106.....	SPEC 9600	9650.083143000.....	SPEC 9650	9825.750031110.....	SPEC 9825	11288.016000.....	SPEC 8150
9600.00403312.....	SPEC 9600	9650.083144000.....	SPEC 9650	9835.00103104.....	SPEC 9835	11288.016200.....	SPEC 8150
9600.00404108.....	SPEC 9600	9650.084123000.....	SPEC 9650	9835.00203106.....	SPEC 9835	11288.016500.....	SPEC 8150
9600.00603312.....	SPEC 9600	9650.084124000.....	SPEC 9650	9835.11003104.....	SPEC 9835	11288.017000.....	SPEC 8150
9600.00604108.....	SPEC 9600	9650.084143000.....	SPEC 9650	9835.21003104.....	SPEC 9835	11288.017500.....	SPEC 8150
9600.00803314.....	SPEC 9600	9650.084144000.....	SPEC 9650	9835.25003103.....	SPEC 9835	11288.020100.....	SPEC 8125
9600.00804110.....	SPEC 9600	9650.103123000.....	SPEC 9650	9835.35003102.....	SPEC 9835	11288.020200.....	SPEC 8175
9600.01003314.....	SPEC 9600	9650.103143000.....	SPEC 9650	9835.41003103.....	SPEC 9835	11288.020300.....	SPEC 8175
9600.01004314.....	SPEC 9600	9650.103144000.....	SPEC 9650	9835.50003101.....	SPEC 9835	11288.020400.....	SPEC 8175
9600.01203316.....	SPEC 9600	9650.104123000.....	SPEC 9650	9835.750031110.....	SPEC 9835	11288.025100.....	SPEC 8175
9600.01204316.....	SPEC 9600	9650.104124000.....	SPEC 9650	9845.00103104.....	SPEC 9845	11288.025200.....	SPEC 8175
9600.01403318.....	SPEC 9600	9650.104143000.....	SPEC 9650	9845.11003104.....	SPEC 9845	11288.025300.....	SPEC 8175

Part Number Index

CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE
17496.895200.....	SPEC 8525	81930.....	SPEC 5300	235160.....	SPEC 4650	243640.....	SPEC 4600
17496.895300.....	SPEC 8525	81931.....	SPEC 5300	235170.....	SPEC 4650	243650.....	SPEC 4700
17496.895400.....	SPEC 8525	81937.....	SPEC 5300	235680.....	SPEC 4075	243660.....	SPEC 4700
17496.896000.....	SPEC 8525	81940.....	SPEC 5300	235750.....	SPEC 2500	243670.....	SPEC 4700
17496.896200.....	SPEC 8525	81944.....	SPEC 5300	235900.....	SPEC 2500	243690.....	SPEC 4700
17497.055100.....	SPEC 8575	81953.....	SPEC 5300	235910.....	SPEC 2450	243710.....	SPEC 4700
17497.055200.....	SPEC 8575	81964.....	SPEC 5300	235970.....	SPEC 2500	243720.....	SPEC 4700
17497.055300.....	SPEC 8575	81977.....	SPEC 5300	235980.....	SPEC 2450	243740.....	SPEC 4700
17497.055400.....	SPEC 8575	81999.....	SPEC 5300	235990.....	SPEC 2500	243760.....	SPEC 4750
17497.056000.....	SPEC 8575	149512M.....	SPEC 5700	236090.....	SPEC 4600	243770.....	SPEC 4700
17497.056200.....	SPEC 8575	219580.....	SPEC 4750	236100.....	SPEC 4600	243810.....	SPEC 4700
17497.056500.....	SPEC 8575	219610.....	SPEC 4750	236120.....	SPEC 4600	243820.....	SPEC 4700
17497.440100.....	SPEC 8625	219630.....	SPEC 4750	236130.....	SPEC 4600	243840.....	SPEC 4700
17497.440200.....	SPEC 8625	221560.....	SPEC 4750	236140.....	SPEC 4600	243880.....	SPEC 2500
17497.445100.....	SPEC 8625	222490.....	SPEC 4750	236150.....	SPEC 4600	243890.....	SPEC 2500
17497.445200.....	SPEC 8625	222510.....	SPEC 4750	236160.....	SPEC 4600	244160.....	SPEC 4075
17497.445300.....	SPEC 8625	222570.....	SPEC 4550	236170.....	SPEC 4600	244590.....	SPEC 2450
17497.445400.....	SPEC 8625	222710.....	SPEC 4550	236180.....	SPEC 4600	244600.....	SPEC 2500
17497.446000.....	SPEC 8625	223640.....	SPEC 4050	236190.....	SPEC 4600	244610.....	SPEC 2450
17497.446200.....	SPEC 8625	223650.....	SPEC 4050	236210.....	SPEC 4600	244650.....	SPEC 4600
17497.446500.....	SPEC 8625	223670.....	SPEC 4050	236220.....	SPEC 4600	244660.....	SPEC 4600
17497.447000.....	SPEC 8625	223750.....	SPEC 4050	236240.....	SPEC 4600	244670.....	SPEC 4600
17497.540100.....	SPEC 8600	223760.....	SPEC 4050	236260.....	SPEC 4600	244680.....	SPEC 4600
17497.540200.....	SPEC 8600	223770.....	SPEC 4050	236280.....	SPEC 4600	244720.....	SPEC 4600
17497.545100.....	SPEC 8600	223780.....	SPEC 4050	236290.....	SPEC 4600	245310.....	SPEC 3300
17497.545200.....	SPEC 8600	223790.....	SPEC 4050	236300.....	SPEC 4650	245320.....	SPEC 3300
17497.545300.....	SPEC 8600	223910.....	SPEC 4050	236310.....	SPEC 4650	245330.....	SPEC 3300
17497.545400.....	SPEC 8600	223920.....	SPEC 4050	236320.....	SPEC 4650	245340.....	SPEC 3300
17497.546000.....	SPEC 8600	223930.....	SPEC 4050	236330.....	SPEC 4650	245350.....	SPEC 3300
17497.546200.....	SPEC 8600	224070.....	SPEC 4050	236340.....	SPEC 4650	245360.....	SPEC 3300
17497.546500.....	SPEC 8600	224080.....	SPEC 4050	236350.....	SPEC 4650	245370.....	SPEC 3300
17497.547000.....	SPEC 8600	224090.....	SPEC 4050	236370.....	SPEC 4750	245380.....	SPEC 3300
17946.895100.....	SPEC 8525	224100.....	SPEC 4050	236380.....	SPEC 4750	245390.....	SPEC 3300
17946.895200.....	SPEC 8525	224110.....	SPEC 4050	236400.....	SPEC 4750	245400.....	SPEC 3300
19101.650200.....	SPEC 6100	224120.....	SPEC 4050	236410.....	SPEC 4750	245410.....	SPEC 3300
19101.655100.....	SPEC 6100	224130.....	SPEC 4050	236420.....	SPEC 4750	245420.....	SPEC 3300
19101.665200.....	SPEC 6100	226410.....	SPEC 4750	236430.....	SPEC 4750	245440.....	SPEC 3300
19101.665300.....	SPEC 6100	226420.....	SPEC 4650	236440.....	SPEC 4750	245450.....	SPEC 3300
19101.665400.....	SPEC 6100	226430.....	SPEC 4750	237130.....	SPEC 2500	245580.....	SPEC 4600
19101.667500.....	SPEC 6100	226500.....	SPEC 4650	237160.....	SPEC 2500	245590.....	SPEC 4650
19101.676000.....	SPEC 6100	229600.....	SPEC 4700	237180.....	SPEC 2500	245920.....	SPEC 4600
19101.676200.....	SPEC 6100	230750.....	SPEC 2450	237490.....	SPEC 2450	247620.....	SPEC 4700
19101.686500.....	SPEC 6100	230760.....	SPEC 2450	237500.....	SPEC 4075	248240.....	SPEC 4200
19101.687000.....	SPEC 6100	230780.....	SPEC 2450	238410.....	SPEC 2450	248290.....	SPEC 4200
19161.307500.....	SPEC 6300	230790.....	SPEC 2450	238800.....	SPEC 3300	252230.....	SPEC 4075
19161.660200.....	SPEC 6300	230800.....	SPEC 2450	239200.....	SPEC 2450	252360.....	SPEC 4075
19161.665300.....	SPEC 6300	230810.....	SPEC 2450	239210.....	SPEC 2450	252370.....	SPEC 2050
19161.675100.....	SPEC 6300	230820.....	SPEC 2450	239620.....	SPEC 4075	252400.....	SPEC 4075
19161.675200.....	SPEC 6300	230830.....	SPEC 2450	239630.....	SPEC 4075	252410.....	SPEC 4075
19161.675400.....	SPEC 6300	230840.....	SPEC 2450	239640.....	SPEC 4075	255080.....	SPEC 4650
19161.686000.....	SPEC 6300	231980.....	SPEC 4750	239650.....	SPEC 4075	255090.....	SPEC 4650
19161.686200.....	SPEC 6300	232560.....	SPEC 2050	239660.....	SPEC 4075	256260.....	SPEC 4075
19161.686500.....	SPEC 6300	232850.....	SPEC 4050	239670.....	SPEC 4075	256300.....	SPEC 2500
19161.697000.....	SPEC 6300	233270.....	SPEC 4600	239680.....	SPEC 4075	256750.....	SPEC 4850
19261.685100.....	SPEC 6500	233310.....	SPEC 4075	239700.....	SPEC 4075	257730.....	SPEC 4850
19261.685200.....	SPEC 6500	233320.....	SPEC 4075	240990.....	SPEC 2050	257740.....	SPEC 4850
19261.685300.....	SPEC 6500	233330.....	SPEC 4075	241000.....	SPEC 2050	257750.....	SPEC 4850
19261.685400.....	SPEC 6500	234250.....	SPEC 4750	241010.....	SPEC 2050	257760.....	SPEC 4850
19261.686000.....	SPEC 6500	234260.....	SPEC 4750	241020.....	SPEC 2500	257770.....	SPEC 4850
19261.686200.....	SPEC 6500	234580.....	SPEC 4650	241030.....	SPEC 2500	257780.....	SPEC 4850
19261.686500.....	SPEC 6500	234590.....	SPEC 4650	241420.....	SPEC 4050	257790.....	SPEC 4850
19261.687000.....	SPEC 6500	234600.....	SPEC 4650	241430.....	SPEC 4050	257800.....	SPEC 4850
19261.687500.....	SPEC 6500	234620.....	SPEC 4650	241440.....	SPEC 4050	257810.....	SPEC 4850
81901.....	SPEC 5300	234640.....	SPEC 4650	241510.....	SPEC 2050	259980.....	SPEC 4700
81902.....	SPEC 5300	234680.....	SPEC 4650	242860.....	SPEC 2500	260000.....	SPEC 4700
81904.....	SPEC 5300	235020.....	SPEC 2450	242870.....	SPEC 2500	260150.....	SPEC 4650
81906.....	SPEC 5300	235040.....	SPEC 4650	243530.....	SPEC 4075	260730.....	SPEC 4050
81908.....	SPEC 5300	235050.....	SPEC 4650	243540.....	SPEC 4075	261000.....	SPEC 4250
81910.....	SPEC 5300	235060.....	SPEC 4650	243560.....	SPEC 4700	261010.....	SPEC 4250
81911.....	SPEC 5300	235070.....	SPEC 4650	243570.....	SPEC 4700	261130.....	SPEC 4700
81912.....	SPEC 5300	235080.....	SPEC 4650	243580.....	SPEC 4700	261140.....	SPEC 4700
81914.....	SPEC 5300	235090.....	SPEC 4650	243600.....	SPEC 4650	261150.....	SPEC 4700
81920.....	SPEC 5300	235110.....	SPEC 4650	243610.....	SPEC 4650	261160.....	SPEC 4700
81926.....	SPEC 5300	235130.....	SPEC 4650	243620.....	SPEC 4650	261690.....	SPEC 4850
81929.....	SPEC 5300	235150.....	SPEC 4650	243630.....	SPEC 4650	262130.....	SPEC 4200

Part Number Index

CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE
262140.....	SPEC 4200	280390.....	SPEC 4310	305300.....	SPEC 4325	325890.....	SPEC 1300
262150.....	SPEC 4200	280400.....	SPEC 4310	305320.....	SPEC 4300	325900.....	SPEC 1250
262160.....	SPEC 4200	280410.....	SPEC 4300	305340.....	SPEC 4300	325910.....	SPEC 1250
262190.....	SPEC 4200	280420.....	SPEC 4310	305360.....	SPEC 4325	325920.....	SPEC 1250
262200.....	SPEC 4200	280430.....	SPEC 4310	307450.....	SPEC 8075	325930.....	SPEC 1300
262680.....	SPEC 4075	280470.....	SPEC 4325	307460.....	SPEC 8075	325940.....	SPEC 1250
264570.....	SPEC 4600	280490.....	SPEC 4325	307470.....	SPEC 8050	325950.....	SPEC 1300
264990.....	SPEC 4200	280500.....	SPEC 2150	307690.....	SPEC 4300	326640.....	SPEC 4325
265940.....	SPEC 4050	280520.....	SPEC 2150	308180.....	SPEC 8075	326650.....	SPEC 4325
266580.....	SPEC 4700	280530.....	SPEC 2150	308190.....	SPEC 8025	326660.....	SPEC 4325
267830.....	SPEC 4850	280540.....	SPEC 2150	308550.....	SPEC 8125	326670.....	SPEC 4325
267840.....	SPEC 4850	280590.....	SPEC 4310	309340.....	SPEC 4100	328540.....	SPEC 4550
267860.....	SPEC 4850	280600.....	SPEC 4310	309520.....	SPEC 1050	329240.....	SPEC 4750
267950.....	SPEC 4850	280950.....	SPEC 2200	309540.....	SPEC 1100	330090.....	SPEC 8025
269080.....	SPEC 4850	280960.....	SPEC 2200	309550.....	SPEC 1100	330280.....	SPEC 8025
270720.....	SPEC 4850	280970.....	SPEC 2200	309560.....	SPEC 1100	330520.....	SPEC 8150
270730.....	SPEC 4850	280980.....	SPEC 4325	309570.....	SPEC 1100	330580.....	SPEC 4075
270970.....	SPEC 2450	280990.....	SPEC 2150	309580.....	SPEC 1100	330800.....	SPEC 4310
271740.....	SPEC 4850	282570.....	SPEC 4100	309660.....	SPEC 1050	330990.....	SPEC 4310
272260.....	SPEC 4050	282580.....	SPEC 4100	309670.....	SPEC 1050	331120.....	SPEC 8150
272270.....	SPEC 4050	282590.....	SPEC 4100	309680.....	SPEC 1050	331130.....	SPEC 8050
277460.....	SPEC 4650	282600.....	SPEC 4100	309690.....	SPEC 1050	331150.....	SPEC 4100
277820.....	SPEC 2500	282610.....	SPEC 4100	309700.....	SPEC 1050	331190.....	SPEC 8050
279560.....	SPEC 4300	282620.....	SPEC 4100	309824.....	SPEC 5200	331250.....	SPEC 8175
279570.....	SPEC 4300	282630.....	SPEC 4100	311320.....	SPEC 8200	331260.....	SPEC 8125
279580.....	SPEC 4300	282640.....	SPEC 4100	311330.....	SPEC 8200	332010.....	SPEC 3300
279590.....	SPEC 4300	282650.....	SPEC 4100	311560.....	SPEC 8050	333160.....	SPEC 8075
279600.....	SPEC 4300	282660.....	SPEC 4100	311570.....	SPEC 8075	333410.....	SPEC 8200
279610.....	SPEC 4300	282670.....	SPEC 4100	311640.....	SPEC 1050	333750.....	SPEC 8025
279620.....	SPEC 4300	282680.....	SPEC 4100	311900.....	SPEC 4325	334630.....	SPEC 1250
279630.....	SPEC 4300	282690.....	SPEC 4100	311910.....	SPEC 4325	336830.....	SPEC 2450
279640.....	SPEC 4300	282710.....	SPEC 4100	312500.....	SPEC 4050	336840.....	SPEC 2450
279650.....	SPEC 4300	283170.....	SPEC 2100	312510.....	SPEC 4050	336850.....	SPEC 2450
279660.....	SPEC 4350	283180.....	SPEC 2100	312520.....	SPEC 4050	336860.....	SPEC 2450
279670.....	SPEC 4350	283190.....	SPEC 2100	312910.....	SPEC 8050	336870.....	SPEC 2450
279680.....	SPEC 4300	283200.....	SPEC 4350	312990.....	SPEC 8050	336880.....	SPEC 2450
279690.....	SPEC 2100	283210.....	SPEC 4350	313406M.....	SPEC 5700	336890.....	SPEC 2450
279700.....	SPEC 2150	283220.....	SPEC 4350	314960.....	SPEC 2100	336900.....	SPEC 2500
279710.....	SPEC 2150	283530.....	SPEC 4800	315020.....	SPEC 8050	336910.....	SPEC 2500
279720.....	SPEC 2150	283540.....	SPEC 4800	317890.....	SPEC 8075	336920.....	SPEC 2500
279730.....	SPEC 2150	284560.....	SPEC 4350	318050.....	SPEC 4600	336930.....	SPEC 2500
279740.....	SPEC 2150	285150.....	SPEC 2050	318730.....	SPEC 8050	336940.....	SPEC 2500
279750.....	SPEC 2150	285890.....	SPEC 4350	318740.....	SPEC 8075	336950.....	SPEC 2500
279760.....	SPEC 2150	286130.....	SPEC 4850	318750.....	SPEC 8075	336960.....	SPEC 2500
279770.....	SPEC 2150	287410.....	SPEC 2200	319250.....	SPEC 2200	337010.....	SPEC 2100
279840.....	SPEC 4300	287650.....	SPEC 2100	319260.....	SPEC 2200	337020.....	SPEC 2100
279850.....	SPEC 4310	288250.....	SPEC 2150	319270.....	SPEC 2150	337030.....	SPEC 2100
279870.....	SPEC 4300	288260.....	SPEC 2150	319480.....	SPEC 8075	337040.....	SPEC 2100
279880.....	SPEC 4300	288411.....	SPEC 5200	319740.....	SPEC 2450	337050.....	SPEC 2100
279890.....	SPEC 4300	292410.....	SPEC 4100	319810.....	SPEC 2350	337060.....	SPEC 2100
279900.....	SPEC 4300	292686M.....	SPEC 5700	319820.....	SPEC 2400	337070.....	SPEC 2100
279910.....	SPEC 4310	293570.....	SPEC 8075	319840.....	SPEC 2400	337080.....	SPEC 2100
279920.....	SPEC 4310	293600.....	SPEC 4350	319850.....	SPEC 2400	337090.....	SPEC 2100
279930.....	SPEC 4310	294530.....	SPEC 4350	319870.....	SPEC 2350	337100.....	SPEC 2100
280170.....	SPEC 4300	294540.....	SPEC 2200	321720.....	SPEC 4650	337110.....	SPEC 2100
280180.....	SPEC 4300	294580.....	SPEC 2100	321736.....	SPEC 5200	337120.....	SPEC 2100
280190.....	SPEC 4300	295320.....	SPEC 4500	321940.....	SPEC 8175	337130.....	SPEC 2100
280200.....	SPEC 4300	295360.....	SPEC 4350	324820.....	SPEC 3150	337140.....	SPEC 2100
280210.....	SPEC 4300	295390.....	SPEC 4350	325110.....	SPEC 4350	337150.....	SPEC 2200
280230.....	SPEC 4310	295400.....	SPEC 4300	325120.....	SPEC 4350	337160.....	SPEC 2200
280240.....	SPEC 4310	295890.....	SPEC 4350	325250.....	SPEC 2100	337170.....	SPEC 2200
280250.....	SPEC 4310	296440.....	SPEC 4350	325610.....	SPEC 4550	337180.....	SPEC 2200
280260.....	SPEC 4310	297050.....	SPEC 4750	325700.....	SPEC 4350	337190.....	SPEC 2200
280270.....	SPEC 4310	297060.....	SPEC 4750	325770.....	SPEC 1250	337200.....	SPEC 2200
280280.....	SPEC 4310	297730.....	SPEC 4350	325780.....	SPEC 1250	337210.....	SPEC 2200
280290.....	SPEC 4310	298020.....	SPEC 4350	325790.....	SPEC 1250	337220.....	SPEC 2200
280300.....	SPEC 4300	298830.....	SPEC 1250	325800.....	SPEC 1300	337230.....	SPEC 2200
280310.....	SPEC 4300	298880.....	SPEC 1300	325810.....	SPEC 1250	337240.....	SPEC 2150
280320.....	SPEC 4300	298890.....	SPEC 1300	325820.....	SPEC 1300	337250.....	SPEC 2150
280330.....	SPEC 4300	299950.....	SPEC 8050	325830.....	SPEC 1250	337260.....	SPEC 2150
280340.....	SPEC 4300	299980.....	SPEC 8025	325840.....	SPEC 1250	337270.....	SPEC 2350
280350.....	SPEC 4310	300380.....	SPEC 4350	325850.....	SPEC 1250	337280.....	SPEC 2350
280360.....	SPEC 4310	300780.....	SPEC 4350	325860.....	SPEC 1300	337290.....	SPEC 2350
280370.....	SPEC 4310	301870.....	SPEC 4300	325870.....	SPEC 1350	337300.....	SPEC 2350
280380.....	SPEC 4310	304030.....	SPEC 8050	325880.....	SPEC 1250	337310.....	SPEC 2350



Part Number Index

CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE
346570.....	SPEC 7050	347640.....	SPEC 2250	365680.....	SPEC 3300	384030.....	SPEC 4075
346580.....	SPEC 7050	347650.....	SPEC 2250	365720.....	SPEC 4500	384040.....	SPEC 4075
346590.....	SPEC 7050	347660.....	SPEC 2250	365750.....	SPEC 4350	384730.....	SPEC 4575
346600.....	SPEC 7050	347670.....	SPEC 2250	366070.....	SPEC 4100	384740.....	SPEC 4575
346610.....	SPEC 7050	347680.....	SPEC 2250	366080.....	SPEC 4100	384750.....	SPEC 4575
346620.....	SPEC 7050	347690.....	SPEC 2250	366090.....	SPEC 4100	384760.....	SPEC 4575
346630.....	SPEC 7100	347700.....	SPEC 2250	366100.....	SPEC 4100	384770.....	SPEC 4575
346640.....	SPEC 7100	347710.....	SPEC 2250	366140.....	SPEC 1150	384780.....	SPEC 4575
346870.....	SPEC 8075	347720.....	SPEC 2250	366150.....	SPEC 1150	384790.....	SPEC 4575
346880.....	SPEC 8050	347730.....	SPEC 2250	366160.....	SPEC 2350	384800.....	SPEC 4575
346890.....	SPEC 8050	347740.....	SPEC 2250	366170.....	SPEC 2250	384810.....	SPEC 4575
346900.....	SPEC 8075	347750.....	SPEC 2250	366180.....	SPEC 2250	384820.....	SPEC 4575
346920.....	SPEC 4500	347760.....	SPEC 2250	366190.....	SPEC 4150	384830.....	SPEC 4575
346930.....	SPEC 4500	347770.....	SPEC 2250	366200.....	SPEC 4150	384840.....	SPEC 4575
346980.....	SPEC 4350	347780.....	SPEC 2250	366210.....	SPEC 4250	384850.....	SPEC 4575
346990.....	SPEC 4350	347790.....	SPEC 2250	366220.....	SPEC 4250	384860.....	SPEC 4575
347000.....	SPEC 4350	347800.....	SPEC 2250	366230.....	SPEC 4250	385350.....	SPEC 4310
347050.....	SPEC 4050	347810.....	SPEC 2250	366240.....	SPEC 4250	385360.....	SPEC 4310
347060.....	SPEC 4050	347820.....	SPEC 2250	366250.....	SPEC 4250	385370.....	SPEC 4310
347070.....	SPEC 4050	347830.....	SPEC 2300	367120.....	SPEC 4325	386700.....	SPEC 4750
347080.....	SPEC 4300	347840.....	SPEC 2300	367130.....	SPEC 4325	389710.....	SPEC 4800
347100.....	SPEC 4300	347850.....	SPEC 2300	367140.....	SPEC 4325	391070.....	SPEC 5200
347110.....	SPEC 4500	347860.....	SPEC 2300	367150.....	SPEC 4325	391080.....	SPEC 5200
347120.....	SPEC 4500	347870.....	SPEC 2300	367160.....	SPEC 4325	391090.....	SPEC 5200
347130.....	SPEC 4500	347880.....	SPEC 2300	367170.....	SPEC 4325	393710.....	SPEC 2600
347140.....	SPEC 4600	347890.....	SPEC 2300	367180.....	SPEC 4325	393720.....	SPEC 2600
347150.....	SPEC 4450	347900.....	SPEC 2300	367190.....	SPEC 4325	393730.....	SPEC 2600
347160.....	SPEC 4450	347910.....	SPEC 2300	367200.....	SPEC 4325	393740.....	SPEC 2600
347170.....	SPEC 4450	347920.....	SPEC 2300	367210.....	SPEC 4325	393750.....	SPEC 2600
347180.....	SPEC 4450	347930.....	SPEC 2300	367220.....	SPEC 4325	393760.....	SPEC 2600
347190.....	SPEC 4450	347940.....	SPEC 2300	367230.....	SPEC 4325	393770.....	SPEC 2600
347200.....	SPEC 4450	347950.....	SPEC 2300	367240.....	SPEC 4325	393780.....	SPEC 2600
347210.....	SPEC 4450	347960.....	SPEC 2300	367250.....	SPEC 4325	393790.....	SPEC 2600
347220.....	SPEC 4450	347970.....	SPEC 2300	367260.....	SPEC 4325	393800.....	SPEC 2600
347230.....	SPEC 4450	347980.....	SPEC 2300	367270.....	SPEC 4325	393810.....	SPEC 2600
347240.....	SPEC 4450	347990.....	SPEC 2300	369093.....	SPEC 5200	393820.....	SPEC 2600
347250.....	SPEC 4450	348000.....	SPEC 2300	371250.....	SPEC 4550	393830.....	SPEC 2600
347260.....	SPEC 4450	348010.....	SPEC 1350	371260.....	SPEC 4550	393840.....	SPEC 2600
347270.....	SPEC 4450	348020.....	SPEC 1250	371270.....	SPEC 4550	393850.....	SPEC 2600
347280.....	SPEC 4450	348030.....	SPEC 1250	371280.....	SPEC 4450	393860.....	SPEC 2600
347290.....	SPEC 4450	348040.....	SPEC 1250	371290.....	SPEC 4450	393870.....	SPEC 2600
347300.....	SPEC 4450	348060.....	SPEC 1300	371300.....	SPEC 4450	393880.....	SPEC 2600
347310.....	SPEC 4450	348070.....	SPEC 1300	371310.....	SPEC 4450	393890.....	SPEC 2600
347320.....	SPEC 4450	348090.....	SPEC 1250	375010.....	SPEC 4075	393900.....	SPEC 2600
347330.....	SPEC 4450	348100.....	SPEC 1250	375470.....	SPEC 4075	393910.....	SPEC 2600
347340.....	SPEC 4400	348110.....	SPEC 1300	381500.....	SPEC 5150	393920.....	SPEC 2600
347350.....	SPEC 4400	348120.....	SPEC 1300	381510.....	SPEC 5150	393930.....	SPEC 2625
347360.....	SPEC 4400	352150.....	SPEC 4550	381520.....	SPEC 5150	393940.....	SPEC 2625
347370.....	SPEC 4400	354800.....	SPEC 4325	381530.....	SPEC 5150	393950.....	SPEC 2625
347380.....	SPEC 4400	354810.....	SPEC 4325	381540.....	SPEC 5150	393960.....	SPEC 2625
347390.....	SPEC 4400	354820.....	SPEC 4325	381550.....	SPEC 5150	393970.....	SPEC 2625
347400.....	SPEC 4400	354830.....	SPEC 4325	381560.....	SPEC 5150	393980.....	SPEC 2625
347410.....	SPEC 4400	355210.....	SPEC 4050	381570.....	SPEC 5150	393990.....	SPEC 2625
347420.....	SPEC 4400	356740.....	SPEC 4350	382260.....	SPEC 2350	394000.....	SPEC 2625
347430.....	SPEC 4400	358172.....	SPEC 5200	382880.....	SPEC 4310	394010.....	SPEC 2625
347440.....	SPEC 4400	360990.....	SPEC 4250	383230.....	SPEC 4550	394020.....	SPEC 2625
347450.....	SPEC 4400	361350.....	SPEC 4050	383790.....	SPEC 4100	394030.....	SPEC 2625
347460.....	SPEC 4400	363310.....	SPEC 4800	383800.....	SPEC 4250	394040.....	SPEC 2625
347470.....	SPEC 4400	364830.....	SPEC 5250	383810.....	SPEC 4250	394050.....	SPEC 2625
347480.....	SPEC 4400	364840.....	SPEC 5250	383820.....	SPEC 4250	394060.....	SPEC 2625
347490.....	SPEC 4400	364850.....	SPEC 5250	383830.....	SPEC 4350	394070.....	SPEC 2625
347500.....	SPEC 4400	365240.....	SPEC 4850	383840.....	SPEC 4350	394080.....	SPEC 2625
347510.....	SPEC 4400	365290.....	SPEC 4800	383860.....	SPEC 4550	394090.....	SPEC 2625
347520.....	SPEC 4400	365300.....	SPEC 4800	383870.....	SPEC 4550	394100.....	SPEC 2625
347530.....	SPEC 4400	365320.....	SPEC 4800	383880.....	SPEC 4550	394110.....	SPEC 2625
347540.....	SPEC 4400	365330.....	SPEC 4800	383890.....	SPEC 4750	394120.....	SPEC 2650
347550.....	SPEC 4400	365340.....	SPEC 4800	383930.....	SPEC 4310	394130.....	SPEC 2650
347560.....	SPEC 4400	365350.....	SPEC 4800	383940.....	SPEC 4310	394140.....	SPEC 2650
347570.....	SPEC 4400	365360.....	SPEC 4800	383950.....	SPEC 4310	394150.....	SPEC 2650
347580.....	SPEC 4400	365370.....	SPEC 4800	383970.....	SPEC 4310	394160.....	SPEC 2650
347590.....	SPEC 4400	365380.....	SPEC 4800	383980.....	SPEC 4075	394170.....	SPEC 2650
347600.....	SPEC 4400	365390.....	SPEC 4800	383990.....	SPEC 4075	394180.....	SPEC 2650
347610.....	SPEC 4400	365400.....	SPEC 4800	384000.....	SPEC 4075	394190.....	SPEC 2650
347620.....	SPEC 4400	365410.....	SPEC 4850	384010.....	SPEC 4075	394200.....	SPEC 2650
347630.....	SPEC 2250	365430.....	SPEC 4850	384020.....	SPEC 4075	394210.....	SPEC 2650



Part Number Index

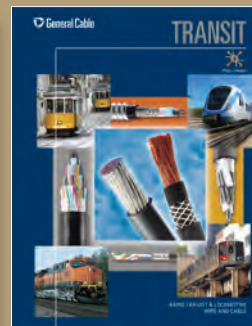
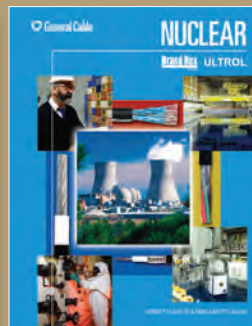
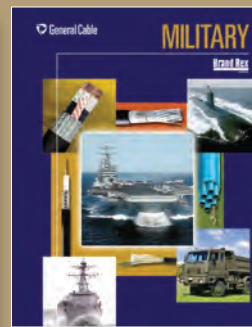
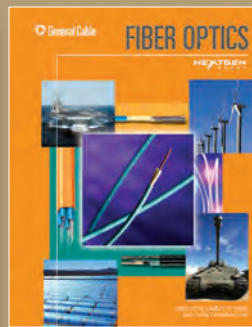
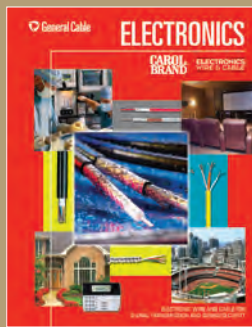
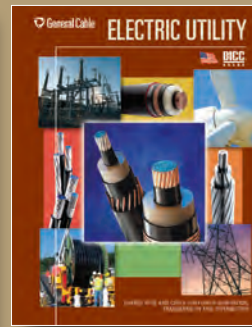
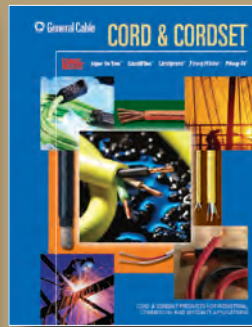
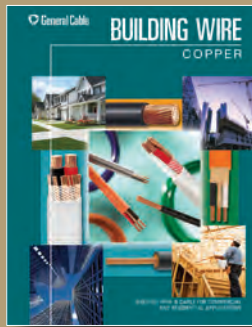
CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE	CATALOG NUMBER	PAGE
394220.....	SPEC 2650	394930.....	SPEC 4950	397580.....	SPEC 4480	760300.....	SPEC 1350
394230.....	SPEC 2650	394940.....	SPEC 4950	397590.....	SPEC 4480	760420.....	SPEC 1300
394240.....	SPEC 2650	394950.....	SPEC 4950	403990.....	SPEC 3300	760530.....	SPEC 1250
394250.....	SPEC 2650	394960.....	SPEC 4925	404000.....	SPEC 3300	760698.....	SPEC 5200
394260.....	SPEC 2650	395070V.....	SPEC 4580	404010.....	SPEC 3300	763699M.....	SPEC 5700
394270.....	SPEC 2650	395080V.....	SPEC 4580	404020.....	SPEC 3300	769641.....	SPEC 5200
394280.....	SPEC 4900	395090V.....	SPEC 4580	404030.....	SPEC 3300	770370.....	SPEC 4500
394290.....	SPEC 4900	395100V.....	SPEC 4580	404040.....	SPEC 3300	770380.....	SPEC 4500
394300.....	SPEC 4900	395110V.....	SPEC 4580	404050.....	SPEC 3300	770390.....	SPEC 4500
394310.....	SPEC 4900	395120V.....	SPEC 4580	404060.....	SPEC 3300	770400.....	SPEC 4500
394320.....	SPEC 4900	395130V.....	SPEC 4580	404070.....	SPEC 3300	770410.....	SPEC 4500
394330.....	SPEC 4900	395140V.....	SPEC 4580	404080.....	SPEC 3300	770420.....	SPEC 4500
394340.....	SPEC 4900	395150V.....	SPEC 4580	404090.....	SPEC 3300	770430.....	SPEC 4500
394350.....	SPEC 4900	395160V.....	SPEC 4580	404330.....	SPEC 3300	770450.....	SPEC 4500
394360.....	SPEC 4900	395170V.....	SPEC 4580	406320.....	SPEC 3300	770460.....	SPEC 4500
394370.....	SPEC 4900	395180V.....	SPEC 4580	419630.....	SPEC 3300	770470.....	SPEC 4500
394380.....	SPEC 4900	395190V.....	SPEC 4580	434680.....	SPEC 3300	770480.....	SPEC 4500
394390.....	SPEC 4900	395200V.....	SPEC 4580	496517.....	SPEC 5200	770490.....	SPEC 4500
394400.....	SPEC 4900	395410.....	SPEC 5880	506887M.....	SPEC 5700	770520.....	SPEC 4500
394410.....	SPEC 4900	395420.....	SPEC 5880	522582M.....	SPEC 5700	770530.....	SPEC 4500
394420.....	SPEC 4900	395430.....	SPEC 5880	526839M.....	SPEC 5700	770540.....	SPEC 4500
394430.....	SPEC 4900	395440.....	SPEC 5880	543640.....	SPEC 4800	770550.....	SPEC 4500
394440.....	SPEC 4900	395450.....	SPEC 5880	547230.....	SPEC 4800	770560.....	SPEC 4500
394450.....	SPEC 4900	395460.....	SPEC 5880	554420.....	SPEC 3150	770570.....	SPEC 4500
394460.....	SPEC 4900	395470.....	SPEC 5880	589692M.....	SPEC 5700	770580.....	SPEC 4500
394470.....	SPEC 4900	395480.....	SPEC 5880	592915.....	SPEC 5200	770590.....	SPEC 4500
394480.....	SPEC 4900	395490.....	SPEC 5880	607078M.....	SPEC 5700	770600.....	SPEC 4500
394490.....	SPEC 4900	395500.....	SPEC 5880	614607M.....	SPEC 5700	770610.....	SPEC 4500
394500.....	SPEC 4900	395510.....	SPEC 5880	624010.....	SPEC 3150	770670.....	SPEC 4500
394510.....	SPEC 4900	395520.....	SPEC 5880	624740.....	SPEC 3150	770700.....	SPEC 4500
394520.....	SPEC 4900	395530.....	SPEC 5890	624750.....	SPEC 3150	770900.....	SPEC 4500
394530.....	SPEC 4900	395540.....	SPEC 5890	624760.....	SPEC 3150	770950.....	SPEC 4500
394540.....	SPEC 4900	395550.....	SPEC 5890	624780.....	SPEC 3150	771080.....	SPEC 4500
394550.....	SPEC 4900	395560.....	SPEC 5890	624790.....	SPEC 3150	780200.....	SPEC 8075
394560.....	SPEC 4900	395570.....	SPEC 5890	624850.....	SPEC 3150	780210.....	SPEC 8050
394570.....	SPEC 4900	395580.....	SPEC 5890	624860.....	SPEC 3150	780220.....	SPEC 8025
394580.....	SPEC 4900	395590.....	SPEC 5890	624870.....	SPEC 3150	780230.....	SPEC 8075
394590.....	SPEC 4900	395600.....	SPEC 5890	624890.....	SPEC 3150	780240.....	SPEC 8050
394600.....	SPEC 4900	395610.....	SPEC 5890	624900.....	SPEC 3150	780250.....	SPEC 8025
394610.....	SPEC 4900	395620.....	SPEC 5890	624910.....	SPEC 3150	780260.....	SPEC 8150
394630.....	SPEC 4925	395630.....	SPEC 5890	624920.....	SPEC 3150	780270.....	SPEC 8075
394640.....	SPEC 4925	395640.....	SPEC 5890	624950.....	SPEC 3150	780280.....	SPEC 8025
394650.....	SPEC 4925	396093.....	SPEC 5200	624980.....	SPEC 3150	780290.....	SPEC 8025
394660.....	SPEC 4925	397310.....	SPEC 4460	624990.....	SPEC 3150	780310.....	SPEC 8025
394670.....	SPEC 4925	397320.....	SPEC 4460	625000.....	SPEC 3150	780320.....	SPEC 8050
394680.....	SPEC 4925	397330.....	SPEC 4460	625020.....	SPEC 3150	783160.....	SPEC 4550
394690.....	SPEC 4925	397340.....	SPEC 4460	625030.....	SPEC 3150	783190.....	SPEC 4550
394700.....	SPEC 4925	397350.....	SPEC 4460	625040.....	SPEC 3150	783230.....	SPEC 4550
394710.....	SPEC 4925	397360.....	SPEC 4460	625050.....	SPEC 3150	783330.....	SPEC 4550
394720.....	SPEC 4925	397370.....	SPEC 4460	625160.....	SPEC 3150	791720.....	SPEC 1250
394730.....	SPEC 4925	397380.....	SPEC 4460	625200.....	SPEC 3150	792940.....	SPEC 8025
394740.....	SPEC 4925	397390.....	SPEC 4460	625220.....	SPEC 3150	792960.....	SPEC 8025
394750.....	SPEC 4925	397400.....	SPEC 4460	625230.....	SPEC 3150	792980.....	SPEC 8025
394760.....	SPEC 4925	397410.....	SPEC 4460	625250.....	SPEC 3150	793000.....	SPEC 8025
394770.....	SPEC 4925	397420.....	SPEC 4460	625270.....	SPEC 3150	793140.....	SPEC 8125
394780.....	SPEC 4925	397430.....	SPEC 4460	625280.....	SPEC 3150	793160.....	SPEC 8175
394790.....	SPEC 4925	397440.....	SPEC 4460	625290.....	SPEC 3150	793180.....	SPEC 8175
394800.....	SPEC 4925	397450.....	SPEC 4460	629439.....	SPEC 5200	793200.....	SPEC 8150
394810.....	SPEC 4925	397460.....	SPEC 4460	647530.....	SPEC 4800	794520.....	SPEC 8125
394820.....	SPEC 4925	397470.....	SPEC 4460	647550.....	SPEC 4800	794540.....	SPEC 8025
394830.....	SPEC 4925	397480.....	SPEC 4460	647560.....	SPEC 4850	798751.....	SPEC 5200
394840.....	SPEC 4925	397490.....	SPEC 4460	647590.....	SPEC 4850	827197M.....	SPEC 5700
394850.....	SPEC 4925	397500.....	SPEC 4460	647600.....	SPEC 4850	840671.....	SPEC 5200
394860.....	SPEC 4925	397510.....	SPEC 4460	647650.....	SPEC 4850	861898M.....	SPEC 5700
394870.....	SPEC 4925	397520.....	SPEC 4480	650981M.....	SPEC 5700	878916.....	SPEC 5200
394880.....	SPEC 4925	397530.....	SPEC 4480	686890.....	SPEC 3150	883753M.....	SPEC 5700
394890.....	SPEC 4925	397540.....	SPEC 4480	687473.....	SPEC 5200	935802.....	SPEC 5200
394900.....	SPEC 4925	397550.....	SPEC 4480	759610.....	SPEC 1250	977766M.....	SPEC 5700
394910.....	SPEC 4925	397560.....	SPEC 4480	759770.....	SPEC 1300		
394920.....	SPEC 4925	397570.....	SPEC 4480	759780.....	SPEC 1300		

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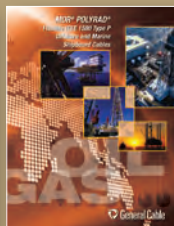




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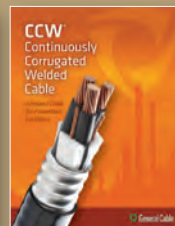
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