

INDUSTRIAL CABLE

Serving industrial, specialty and commercial applications



Industrial

Serving Industrial, Specialty and Commercial Applications

This catalog contains in-depth information on the most comprehensive line of instrumentation, power and control cable available today.

The product and technical sections have been developed with an easy-to-use “spec-on-a-page” format. They feature the latest information on industrial cable products, from applications to product construction to detailed technical and specification data. There is also a technical reference section featuring a glossary of technical terms and a Catalog Number to Product Specification Number Index.

For further information, contact General Cable's Customer Service staff or your local General Cable sales representative.



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 Prysmian 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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Demand Better... Expect More™

FROM QUALITY



Prysmian is committed to meeting customer requirements through continuous quality improvements. As a significant part of our commitment to quality, Prysmian's manufacturing facilities are certified to the ISO 9001:2015 quality standard. Our telecommunications cable manufacturing facility has received TL 9000 quality standards registration

as a supplement to the ISO program. This quality system is based on the ISO 9001 program with added telecommunications-specific performance metrics. We strive to provide value optimization through innovation and quality solutions.

- Our in-house testing capabilities are extensive, with strict adherence to our product specifications as well as industry standards.
- Cables are safety listed and verified.
- Third-party testing labs like ETL and UL are utilized to quantify and confirm our quality and provide final qualification data that sets the foundation for our extended product warranty.
- Prysmian products have stood the test of time with proven reliability and performance.

CUSTOMER SERVICE



Prysmian is dedicated to customer service and satisfaction. Call our team of professionally trained sales associates at

888-295-5896

with any questions to meet your application needs.

na.prysmian.com

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2000 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	Feb 2025
2100[†] FREP [®]	FR-EPR/CPE, Instrumentation, Shielded 600 V UL Type TC, Overall Shielded Pairs/Triads	Feb 2025
2150[†] FREP [®]	FR-EPR/CPE, Instrumentation, Shielded 600 V UL Type TC, Individual and Overall Shielded Pairs	Feb 2025
2200 FREP [®]	FR-EPR/CPE, Instrumentation, Shielded 600 V UL Type TC, Individual and Overall Shielded Triads	Feb 2025
2350 CVTC [®]	XLPE/PVC, Instrumentation, Shielded 600 V UL Type TC, Overall Shielded Pairs/Triads	Feb 2025
2400 CVTC [®]	XLPE/PVC, Instrumentation, Shielded 600 V UL Type TC, Individual and Overall Shielded Pairs	Feb 2025
2600 GenFree [®]	XLPE/LSZH, Instrumentation, Shielded 600 V UL Type TC-LS, Overall Shielded Pairs/Triads	Feb 2025
2625 GenFree [®]	XLPE/LSZH, Instrumentation, Shielded 600 V UL Type TC-LS, Individual and Overall Shielded Pairs	Feb 2025
2650 GenFree [®]	XLPE/LSZH, Instrumentation, Shielded 600 V UL Type TC-LS, Individual and Overall Shielded Triads	Feb 2025
4000 600 V Multi-Conductor Control and Power Cables		
SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
4050 CHTC [®]	XLPE/XL-CPE, Control, Unshielded 600 V or 1000 V ¹ UL Type TC—E-2 Color Code	Feb 2025
4075[†] CHTC [®]	XLPE/XL-CPE, Control, Unshielded 600 V or 1000 V UL Type TC—E-1 Color Code	Feb 2025
4100[†] CHTC [®]	XLPE/XL-CPE, Low-Voltage Power, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —Method 4 Color Code	Feb 2025
4300[†] FREP [®]	FR-EPR/CPE, Control, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —E-2 Color Code	Feb 2025
4310[†] FREP [®]	FR-EPR/CPE, Control, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —E-1 Color Code	Feb 2025
4325[†] FREP [®]	FR-EPR/CPE, Control, Shielded 600 V or 1000 V UL Type TC-ER ¹ , Overall Shielded—E-2 Color Code	Feb 2025
4350[†] FREP [®]	FR-EPR/CPE, Low-Voltage Power, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —Method 4 Color Code	Feb 2025
4500[†] CVTC [®]	XLPE/PVC, Control, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —E-2 Color Code	Feb 2025
4550[†] CVTC [®]	XLPE/PVC, Low-Voltage Power, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —Method 4 Color Code	Feb 2025
4560[†] CVTC [®] Flexible VFD	XLPE/PVC, Low-Voltage Power, Al/Polyester/Al + TC Braid Shielded, 1000 V UL Flexible Motor Supply and WTTC, 600 V or 1000 V UL Type TC-ER—Method 4 Color Code w/ Green/Yellow Ground	Feb 2025
4580[†] CVTC [®] VFD	XLPE/PVC, Low-Voltage Power, Copper Tape Shielded 2000 V UL Type TC-ER ¹ —Method 4 Color Code	Feb 2025
4585[†] CVTC [®] VFD	XLPE/PVC, Low-Voltage Power, Copper Tape Shielded 600 V or 1000 V UL Type TC-ER ¹ —Method 4 Color Code	Feb 2025

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4000 (cont'd) 600 V Multi-Conductor Control and Power Cables		
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4600[†] VNTC [®]	PVC/Nylon/PVC, Control, Unshielded 600 V or 1000 V UL Type TC-ER ¹ (18 AWG/16 AWG)—E-2 Color Code	Feb 2025
4650[†] VNTC [®]	PVC/Nylon/PVC, Control, Unshielded 600 V UL Type TC-ER ¹ (14 AWG—10 AWG)—E-2 Color Code	Feb 2025
4700[†] VNTC [®]	PVC/Nylon/PVC, Control, Shielded 600 V UL Type TC-ER ¹ , Overall Shielded—E-2 Color Code	Feb 2025
4750[†] VNTC [®]	PVC/Nylon/PVC, Low-Voltage Power, Unshielded 600 V UL Type TC-ER ¹ — Method 4 Color Code	Feb 2025
4900 GenFree [®]	XLPE/LSZH, Control 600 V UL Type TC-LS-ER ¹ —E-2 Color Code	Feb 2025
4925 GenFree [®]	XLPE/LSZH, Control, Shielded 600 V UL Type TC-LS-ER ¹ , Overall Shielded—E-2 Color Code	Feb 2025
4950 GenFree [®]	XLPE/LSZH, Low-Voltage Power, Unshielded 600 V UL Type TC-LS-ER—Method 4 Color Code	Feb 2025
5000 600 V – 2 kV Industrial Power Cables		
SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
5050[†] DuraSheath [®]	PVC/Nylon/PVC, Control, Unshielded 600 V or 1000 V UL Type TC-ER ¹ (18 AWG/16 AWG)—E-2 Color Code	Feb 2025
5310[†] Diesel Locomotive Cable (DLO)	PVC/Nylon/PVC, Control, Unshielded 600 V UL Type TC-ER ¹ (14 AWG—10 AWG)—E-2 Color Code	Feb 2025
6000 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	Feb 2025
6155[†] Uniblend [®] PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Feb 2025
6160 Aluminum Uniblend [®] PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Feb 2025
6161 Aluminum Uniblend [®] PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Feb 2025
6175[†] Uniblend [®] CPE	EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Feb 2025
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	Feb 2025
6255[†] Uniblend [®] PVC	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	Feb 2025
6275 Uniblend [®] CPE	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	Feb 2025
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	Feb 2025
6355[†] Uniblend [®] PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV UL Type MV-105, 133% Ins. Level, 220 Mils	Feb 2025

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6000 (cont'd) 2.4 kV — 35 kV Industrial Medium-Voltage Cables		
SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
6360 [†] Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV UL Type MV-105, 133% Ins. Level, 220 Mils	Feb 2025
6361 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV UL Type MV-105, 133% Ins. Levels, 220 Mils	Feb 2025
6375 [†] Uniblend® CPE	EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 15 kV UL Type MV-105, 133% Ins. Level, 220 Mils	Feb 2025
6380 GenFree® Uniblend®	EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded 15 kV UL Type MV-105/ST1, 133% Ins. Level, 220 Mils	Feb 2025
6455 [†] Uniblend® PVC	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	Feb 2025
6475 Uniblend® CPE	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	Feb 2025
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	Feb 2025
6555 [†] Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Feb 2025
6560 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils	Feb 2025
6561 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 25 kV and 35 kV UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Feb 2025
6562 Aluminum Uniblend® PVC	TRXLPE/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 25 kV and 35 kV UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Feb 2025
6575 [†] Uniblend® CPE	EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 25 kV and 35 kV UL Type MV-105, 133%/100% Ins. Levels, 345 Mils	Feb 2025
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	Feb 2025
6605 Uniblend® PVC	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	Feb 2025
6655 [†] Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV UL Type MV-105, 133% Ins. Levels, 420 Mils	Feb 2025
6660 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV UL Type MV-105, 133% Ins. Levels, 420 Mils	Feb 2025
6661 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV UL Type MV-105, 133% Ins. Levels, 420 Mils	Feb 2025
7000 600 V – 35 kV Industrial Armored Cables		
SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
7050 [†] Duralox®	XLPE/AIA/PVC, Control, Armored 600 V or 1000 V UL Type MC, Multi-Conductor	Feb 2025
7100 [†] Duralox®	XLPE, Low-Voltage Power 600 V or 1000 V UL Type XHHW-2, CT Rated, Single Conductor, Copper	Feb 2025
7150 [†] Duralox®	XLPE/AIA/PVC, Power, Armored 600 V or 1000 V UL Type MC, Three and Four Conductor (250 kcmil - 1000 kcmil)	Feb 2025
7160 [†] Duralox®	XLPE/AIA/PVC, Power, Armored, with Enhanced Ground Wires (50%) 600 V or 1000 V UL Type MC, Three Conductor (1/0 AWG - 1000 kcmil)	Feb 2025

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7000 (cont'd) 600 V – 35 kV Industrial Armored Cables		
SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
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	Feb 2025
7300[†] Duralox® Uniblend®	EPR/AIA/PVC, Power, Shielded, Armored 15 kV UL Type MV-105 or MC, 133% Ins. Level, 220 Mils, Three Conductor	Feb 2025
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	Feb 2025
7350[†] Duralox® Uniblend®	EPR/AIA/PVC, Power, Shielded, Armored 25 kV UL Type MV-105 or MC, 100% Ins. Level, 260 Mils, Three Conductor	Feb 2025
7400[†] Duralox® Uniblend®	EPR/AIA/PVC, Power, Shielded, Armored 35 kV UL Type MV-105 or MC, 100% Ins. Level, 345 Mils, Three Conductor	Feb 2025
8000 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	Feb 2025
8050[†] TECK90	XLPE/PVC/AIA/PVC, Control, Armored 600 V CSA TECK90, Multi-Conductor, 12 AWG	Feb 2025
8075[†] TECK90	XLPE/PVC/AIA/PVC, Control, Armored 600 V CSA TECK90, Multi-Conductor, 10 AWG	Feb 2025
8100 TECK90	XLPE/PVC/AIA/PVC, Power, Armored 1000 V CSA TECK90, Single Conductor	Feb 2025
8125 TECK90	XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V CSA TECK90, Two Conductor	Feb 2025
8150[†] TECK90	XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V CSA TECK90, Three Conductor	Feb 2025
8175[†] TECK90	XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V CSA TECK90, Four Conductor	Feb 2025
8200 TECK90	XLPE/PVC/AIA/PVC, Power/Control Composite 600 V CSA TECK90, Three Power and Three 14 AWG Control Conductors	Feb 2025
8250[†] TECK90	TRXLPE/PVC/AIA/PVC, Power, Unshielded, Armored 5 kV CSA TECK90, Three Conductor	Feb 2025
8275 HVTECK	TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV CSA HVTECK, 100% Ins. Level, 90 Mils, Single Conductor	Feb 2025
8300 HVTECK	TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV (133% Ins. Level)/8 kV (100% Ins. Level), 115 Mils CSA HVTECK Single Conductor	Feb 2025
8325 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV CSA HVTECK, 100% Ins. Level, 90 Mils, Three Conductor	Feb 2025
8350 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV (133% Ins. Level)/8 kV (100% Ins. Level), 115 Mils CSA HVTECK Three Conductor	Feb 2025
8375 HVTECK	TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 100% Ins. Level, 175 Mils, Single Conductor	Feb 2025
8400 HVTECK	TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 133% Ins. Level, 220 Mils, Single Conductor	Feb 2025
8425 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 100% Ins. Level, 175 Mils, Three Conductor	Feb 2025

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8000 (cont'd) 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	Feb 2025
8475 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 25 kV CSA HVTECK, 100% Ins. Level, 260 Mils, Three Conductor	Feb 2025
8500 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 25 kV CSA HVTECK, 133% Ins. Level, 320 Mils, Three Conductor	Feb 2025
8525 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 28 kV CSA HVTECK, 133% Ins. Level, 345 Mils, Three Conductor	Feb 2025
8540 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 35kV CSA HVTECK, 133% Ins. Level, 420 Mils, Three Conductor	Feb 2025
8550 VERTITECK [®] TECK90	XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored 1 kV CSA TECK90, Three Conductor	Feb 2025
8575 VERTITECK [®] TECK90	XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored 5 kV CSA TECK90, 90 Mils, Three Conductor	Feb 2025
8600 VERTITECK [®] HVTECK	TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 133% Ins. Level, 220 Mils, Three Conductor	Feb 2025
8625 VERTITECK [®] HVTECK	TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 100% Ins. Level, 175 Mils, Three Conductor	Feb 2025
9000 300 V – 35 kV CCW[®] Armored Cables for Hazardous Locations		
SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
9325 CCW [®] Armor	600 V Instrumentation, Pairs/Triads, Overall Shield (OS) UL Type MC-HL, PVC/Nylon, 90°C, ABS CWCMC	Feb 2025
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 2025
9500 CCW [®] Armor	600 V or 1000 V Control With Grounding Conductor UL Type MC-HL, CSA Type HL, XLPE, 90°C, ABS CWCMC	Feb 2025
9510 CCW [®] Armor	600 V or 1000 V Control With Bare Grounding Conductor UL Type MC-HL, CSA Type HL, XLPE, 90°C, ABS CWCMC	Feb 2025
9525 CCW [®] Armor	600 V or 1000 V Control Without Grounding Conductor UL Type MC, CSA Type HL, XLPE, 90°C, ABS CWCMC	Feb 2025
9600 CCW [®] Armor	600 V or 1000 V Power, 3/C VFD and 4/C UL Type MC-HL, CSA Type HL, XLPE, 90°C, ABS CWCMC	Feb 2025
9615 CCW [®] Armor	2000 V Power, 3/C VFD UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Feb 2025
9675 CCW [®] Armor	1000 V Power, 3/C VFD CSA Type RA90, HL, XLPE, 90°C	Feb 2025
9700 CCW [®] Armor	2.4 kV Power, Nonshielded, 3/C VFD UL Type MC-HL or MV-90, EPR, 105°C, ABS CWCMC	Feb 2025
9800 CCW [®] Armor	5 kV 133%/8 kV 100% Power, Shielded, 3/C VFD UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025
9815 CCW [®] Armor	8 kV 133% Power, Shielded, 3/C VFD UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025
9825 CCW [®] Armor	15 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025
9835 CCW [®] Armor	15 kV 133% Power, Shielded, 3/C UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025

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9000 (cont'd) 300 V – 35 kV CCW® Armored Cables for Hazardous Locations		
SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
9845 CCW® Armor	25 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025
9855 CCW® Armor	25 kV 133%/35 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025
9875 CCW® Armor	35 kV 133% Power, Shielded, 3/C UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025
10000 AIRGUARD®		
SPECIFICATION NO.	PRODUCT DESCRIPTION	REVISION DATE
10000 AIRGUARD®EX VFD (AGX)	XLPE/Polymeric Armor/PVC, Low-Voltage Power UL Type TC-ER-HL 600V or UL Type TC-ER 1000V	Feb 2025
10050 AIRGUARD®EX (AGX)	XLPE/Polymeric Armor/PVC, Control UL Type TC-ER-HL 600V or UL Type TC-ER 1000V	Feb 2025
10200 AIRGUARD®	PVC/Nylon/Polymeric Armor/PVC, Instrumentation UL Type TC-ER-HL 600V - Onshore Rated	Feb 2025
10250 AIRGUARD®	XLPE/Polymeric Armor/PVC, Instrumentation UL Type TC-ER-HL 600V - Marine Rated	Feb 2025
10300 AIRGUARD®	XLPE/Polymeric Armor/PVC, Control UL Type TC-ER-HL 600V or 1000V	Feb 2025
10350 AIRGUARD®	XLPE/Polymeric Armor/PVC, Low-Voltage Power UL Type TC-ER-HL 600V or 1000V	Feb 2025
10400 AIRGUARD®VFD	XLPE/Polymeric Armor/PVC, Low-Voltage Power UL Type TC-ER-HL 600V or 1000V	Feb 2025
10500 AIRGUARD®	EPR/Copper Tape Shield/Polymeric Armor/PVC, MV Power, Shielded UL Type MV-105, 5kV and 8kV, 133%/100% Ins. Level	Feb 2025
10550 AIRGUARD®	EPR/Copper Tape Shield/Polymeric Armor/PVC, MV Power, Shielded UL Type MV-105, 15kV, 133% Ins. Level	Feb 2025
10600 AIRGUARD®	EPR/Copper Tape Shield/Polymeric Armor/PVC, MV Power, Shielded UL Type MV-105, 25kV, 133% Ins. Level	Feb 2025
10650 AIRGUARD®	EPR/Copper Tape Shield/Polymeric Armor/PVC, MV Power, Shielded UL Type MV-105, 35kV, 133% Ins. Level	Feb 2025
LV AIRGUARD® Non-Potted Gland	TC Globally Approved, Hazardous (Classified) Location Cable Gland TC-ER-HL Cables, Class I Div 2	Feb 2025
LV AIRGUARD® Liquid Sealing Gland	PXSS2K-REX Globally Approved, Hazardous (Classified) Location Barrier Cable Gland TC-ER-HL Cables, Class I Div 1	Feb 2025
LV AIRGUARD® Putty Sealing Gland 424BT Series	TC-ER-HL Cables, Class I Div 1	Feb 2025

600 V Instrumentation Cables

SPECIFICATION NUMBER	PRODUCT DESCRIPTION	REVISION DATE	PAGE NUMBER
2050[†] CHTC [®]	XLPE/XL-CPE, Instrumentation, Shielded 600 V UL Type TC, Individual and Overall Shielded Pairs/Triads	Feb 2025	2
2100[†] FREP [®]	FR-EPR/CPE, Instrumentation, Shielded 600 V UL Type TC, Overall Shielded Pairs/Triads	Feb 2025	3
2150[†] FREP [®]	FR-EPR/CPE, Instrumentation, Shielded 600 V UL Type TC, Individual and Overall Shielded Pairs	Feb 2025	4
2200 FREP [®]	FR-EPR/CPE, Instrumentation, Shielded 600 V UL Type TC, Individual and Overall Shielded Triads	Feb 2025	5
2350 CVTC [®]	XLPE/PVC, Instrumentation, Shielded 600 V UL Type TC, Overall Shielded Pairs/Triads	Feb 2025	6
2400 CVTC [®]	XLPE/PVC, Instrumentation, Shielded 600 V UL Type TC, Individual and Overall Shielded Pairs	Feb 2025	7
2600 GenFree [®]	XLPE/LSZH, Instrumentation, Shielded 600 V UL Type TC-LS, Overall Shielded Pairs/Triads	Feb 2025	8
2625 GenFree [®]	XLPE/LSZH, Instrumentation, Shielded 600 V UL Type TC-LS, Individual and Overall Shielded Pairs	Feb 2025	9
2650 GenFree [®]	XLPE/LSZH, Instrumentation, Shielded 600 V UL Type TC-LS, Individual and Overall Shielded Triads	Feb 2025	10

[†]Indicates these products are stocked by Prysmian

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)

Applications:

- In free air, cable tray, 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 of 60 mils or less
- Meets cold bend test at -40°C
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides excellent oil and chemical resistance
- Excellent low temperature cold bend characteristics
- Oil Res I & II
- "Heavy Duty" rating per ICEA standards

Compliances:

Industry Compliances:

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

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 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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS 18 AWG CONDUCTORS

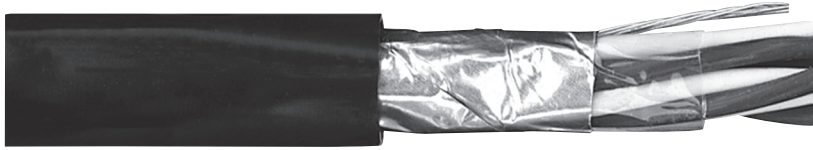
285150	1	18	7W	0.030	0.76	0.045	1.14	0.315	8.00	12	18.2	45	66
337620*	1 TRI	18	7W	0.030	0.76	0.045	1.14	0.330	8.38	17	25.9	55	82
337630*	2	18	7W	0.030	0.76	0.045	1.14	0.510	12.95	28	42	92	137
337640*	4	18	7W	0.030	0.76	0.060	1.52	0.630	16.00	53	79	167	249
337650*	8	18	7W	0.030	0.76	0.080	2.03	0.855	21.72	104	155	326	485
337660*	12	18	7W	0.030	0.76	0.080	2.03	1.030	26.16	155	231	441	656
337670*	16	18	7W	0.030	0.76	0.080	2.03	1.140	28.96	206	307	554	824
337680*	20	18	7W	0.030	0.76	0.080	2.03	1.265	32.13	256	381	676	1006
337690*	24	18	7W	0.030	0.76	0.080	2.03	1.450	36.83	308	459	795	1183
337700*	36	18	7W	0.030	0.76	0.110	2.79	1.650	41.91	461	687	1118	1664
337710*	50	18	7W	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	7W	0.030	0.76	0.045	1.14	0.340	8.64	18	27	55	82
241510	1 TRI	16	7W	0.030	0.76	0.045	1.14	0.360	9.10	28	42	85	127
241010	2	16	7W	0.030	0.76	0.060	1.52	0.580	14.73	39	59	139	206
232560	4	16	7W	0.030	0.76	0.060	1.52	0.675	17.15	77	114	198	294
241000*	8	16	7W	0.030	0.76	0.080	2.03	0.915	23.24	153	228	394	586
252370	12	16	7W	0.030	0.76	0.080	2.03	1.110	28.19	229	341	548	816
337720*	16	16	7W	0.030	0.76	0.080	2.03	1.350	34.29	304	453	713	1061
337730*	20	16	7W	0.030	0.76	0.080	2.03	1.365	34.67	380	566	850	1265
337740*	24	16	7W	0.030	0.76	0.080	2.03	1.570	39.88	455	677	1001	1490
337750*	36	16	7W	0.030	0.76	0.110	2.79	1.980	50.29	682	1014	1548	2304
337760*	50	16	7W	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

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	
				IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km

OVERALL SHIELDED PAIRS/TRIADS 18 AWG CONDUCTORS

287650*	1	18	7W	0.030	0.76	0.045	1.14	0.315	8.00	15	23	49	74
325250*	1 TRI	18	7W	0.030	0.76	0.045	1.14	0.340	8.64	18	26	58	87
337010*	2	18	7W	0.030	0.76	0.045	1.14	0.460	11.68	23	34	83	123
337020*	4	18	7W	0.030	0.76	0.045	1.14	0.570	14.48	44	65	129	192
337030*	8	18	7W	0.030	0.76	0.060	1.52	0.735	18.67	86	127	246	367
337040*	12	18	7W	0.030	0.76	0.060	1.52	0.900	22.86	127	189	336	499
294580*	16	18	7W	0.030	0.76	0.080	2.03	1.010	25.65	169	251	468	696
337050*	20	18	7W	0.030	0.76	0.080	2.03	1.120	28.45	210	313	561	835
337060*	24	18	7W	0.030	0.76	0.080	2.03	1.220	30.99	252	375	664	989
337070*	36	18	7W	0.030	0.76	0.080	2.03	1.490	37.85	377	561	952	1416
337080*	50	18	7W	0.030	0.76	0.080	2.03	1.780	45.21	523	778	1258	1872

OVERALL SHIELDED PAIRS/TRIADS 16 AWG CONDUCTORS

314960	1	16	7W	0.030	0.76	0.045	1.14	0.340	8.64	24	36	61	91
279690	1 TRI	16	7W	0.030	0.76	0.045	1.14	0.355	9.02	33	48	76	113
283170*	2	16	7W	0.030	0.76	0.045	1.14	0.495	12.57	41	61	118	176
283180*	4	16	7W	0.030	0.76	0.060	1.52	0.610	15.49	75	111	185	275
337090*	8	16	7W	0.030	0.76	0.060	1.52	0.800	20.32	135	201	323	481
283190*	12	16	7W	0.030	0.76	0.080	2.03	0.975	24.77	202	300	482	717
337100*	16	16	7W	0.030	0.76	0.080	2.03	1.100	27.94	268	398	628	934
337110*	20	16	7W	0.030	0.76	0.080	2.03	1.230	31.24	335	498	748	1113
337120*	24	16	7W	0.030	0.76	0.080	2.03	1.330	33.78	401	597	888	1321
337130*	36	16	7W	0.030	0.76	0.080	2.03	1.640	41.66	601	894	1276	1899
337140*	50	16	7W	0.030	0.76	0.080	2.03	2.320	58.93	834	1241	1872	2786

Dimensions and weights are nominal; subject to industry tolerances.

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

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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance—burns to ash when exposed to flame
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- Excellent low temperature cold bend characteristics

Compliances:**Industry Compliances:**

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

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 length and shipped on non-returnable wood reels

RoHS Compliant
Directive EU 2015 / 863

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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance—burns to ash when exposed to flame
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- Excellent low temperature cold bend characteristics

Compliances:

Industry Compliances:

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

Flame Test Compliances:

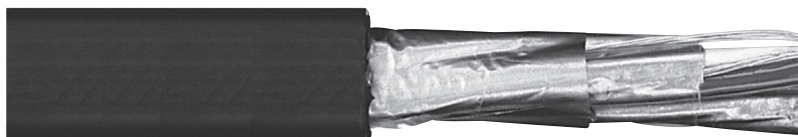
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

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

Packaging:

- Material cut to 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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

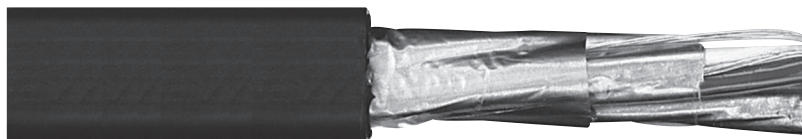
279700	2	18	7W	0.030	0.76	0.045	1.14	0.505	12.83	30	45	108	161
279710	4	18	7W	0.030	0.76	0.060	1.52	0.620	15.75	55	82	172	257
279720*	8	18	7W	0.030	0.76	0.060	1.52	0.810	20.57	103	153	285	424
279730*	12	18	7W	0.030	0.76	0.080	2.03	1.015	25.78	155	231	450	670
279740*	16	18	7W	0.030	0.76	0.080	2.03	1.135	28.82	206	307	552	822
319270*	20	18	7W	0.030	0.76	0.080	2.03	1.280	32.51	254	378	685	1020
279750*	24	18	7W	0.030	0.76	0.080	2.03	1.330	33.78	311	463	780	1160
337240*	36	18	7W	0.030	0.76	0.080	2.03	1.600	40.64	461	687	1109	1650
337250*	50	18	7W	0.030	0.76	0.110	2.79	1.930	49.02	640	952	1599	2380

INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG CONDUCTORS

280500	2	16	7W	0.030	0.76	0.060	1.52	0.580	14.73	45	68	148	220
280520	4	16	7W	0.030	0.76	0.060	1.52	0.675	17.15	83	123	208	309
280530	6	16	7W	0.030	0.76	0.060	1.52	0.805	20.45	120	179	297	442
280540	8	16	7W	0.030	0.76	0.080	2.03	0.920	23.37	157	234	411	611
279760	12	16	7W	0.030	0.76	0.080	2.03	1.065	27.05	232	345	553	822
280990*	16	16	7W	0.030	0.76	0.080	2.03	1.270	32.25	305	453	707	1052
337260*	20	16	7W	0.030	0.76	0.080	2.03	1.415	35.94	380	566	855	1272
279770*	24	16	7W	0.030	0.76	0.080	2.03	1.600	40.64	455	677	1025	1525
288260*	36	16	7W	0.030	0.76	0.110	2.79	1.890	48.01	683	1016	1551	2308
288250*	50	16	7W	0.030	0.76	0.110	2.79	2.190	55.63	946	1408	2071	3082

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

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	
				IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km
INDIVIDUAL AND OVERALL SHIELDED TRIADS 18 AWG CONDUCTORS													
337150*	2 TRI	18	7W	0.030	0.76	0.060	1.52	0.600	15.24	38	57	140	208
319250*	4 TRI	18	7W	0.030	0.76	0.060	1.52	0.690	17.53	73	109	221	329
319260*	8 TRI	18	7W	0.030	0.76	0.080	2.03	0.895	22.73	144	214	377	561
337160*	12 TRI	18	7W	0.030	0.76	0.080	2.03	1.150	29.20	218	324	581	864
294540*	16 TRI	18	7W	0.030	0.76	0.080	2.03	1.280	32.51	290	431	743	1105
337170*	20 TRI	18	7W	0.030	0.76	0.080	2.03	1.420	36.07	361	538	908	1350
337180*	24 TRI	18	7W	0.030	0.76	0.080	2.03	1.625	41.28	433	645	1069	1591
337190*	36 TRI	18	7W	0.030	0.76	0.110	2.79	1.885	47.88	649	965	1617	2406

INDIVIDUAL AND OVERALL SHIELDED TRIADS 16 AWG CONDUCTORS													
280950*	2 TRI	16	7W	0.030	0.76	0.060	1.52	0.660	16.76	57	84	175	260
280960*	4 TRI	16	7W	0.030	0.76	0.060	1.52	0.745	18.92	116	173	274	408
280970*	8 TRI	16	7W	0.030	0.76	0.080	2.03	1.015	25.78	224	333	540	804
287410*	12 TRI	16	7W	0.030	0.76	0.080	2.03	1.245	31.62	328	487	751	1118
337200*	16 TRI	16	7W	0.030	0.76	0.080	2.03	1.390	35.31	436	649	967	1439
337210*	20 TRI	16	7W	0.030	0.76	0.080	2.03	1.490	37.85	545	811	1164	1732
337220*	24 TRI	16	7W	0.030	0.76	0.110	2.79	1.740	44.20	653	972	1393	2072
337230*	36 TRI	16	7W	0.030	0.76	0.110	2.79	2.065	52.45	979	1457	2110	3139

Dimensions and weights are nominal; subject to industry tolerances.

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

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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance—burns to ash when exposed to flame
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- Excellent low temperature cold bend characteristics

Compliances:**Industry Compliances:**

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

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 length and shipped on non-returnable wood reels

RoHS Compliant
Directive EU 2015 / 863



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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance

Compliances:

Industry Compliances:

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

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 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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELDED PAIRS/TRIADS 18 AWG CONDUCTORS

366160*	1	18	7W	0.030	0.76	0.045	1.14	0.315	8.00	12	18	46	68
337270*	1 TRI	18	7W	0.030	0.76	0.045	1.14	0.340	8.64	18	26	58	86
337360*	2	18	7W	0.030	0.76	0.045	1.14	0.450	11.43	23	34	88	131
337280*	4	18	7W	0.030	0.76	0.045	1.14	0.560	14.22	44	65	144	214
337290*	8	18	7W	0.030	0.76	0.060	1.52	0.750	19.05	94	140	263	391
337300*	12	18	7W	0.030	0.76	0.080	2.03	0.850	21.59	141	210	358	533
337310*	16	18	7W	0.030	0.76	0.080	2.03	1.010	25.65	187	278	461	686
337320*	20	18	7W	0.030	0.76	0.080	2.03	1.085	27.56	233	347	600	893
337330*	24	18	7W	0.030	0.76	0.080	2.03	1.210	30.73	279	415	701	1043
337340*	36	18	7W	0.030	0.76	0.080	2.03	1.500	38.10	418	622	1005	1496
337350*	50	18	7W	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	7W	0.030	0.76	0.045	1.14	0.345	8.76	19	28	32	48
319870*	1 TRI	16	7W	0.030	0.76	0.045	1.14	0.360	9.14	27	40	72	107
337370*	2	16	7W	0.030	0.76	0.045	1.14	0.560	14.22	36	53	121	180
382260*	4	16	7W	0.030	0.76	0.060	1.52	0.650	16.51	69	102	186	277
337390*	8	16	7W	0.030	0.76	0.060	1.52	0.810	20.57	135	201	324	482
337400*	12	16	7W	0.030	0.76	0.080	2.03	1.000	25.40	202	300	486	723
337410*	16	16	7W	0.030	0.76	0.080	2.03	1.120	28.45	268	399	616	917
337420*	20	16	7W	0.030	0.76	0.080	2.03	1.170	29.72	335	498	734	1092
337430*	24	16	7W	0.030	0.76	0.080	2.03	1.440	36.58	401	597	894	1330
337440*	36	16	7W	0.030	0.76	0.080	2.03	1.650	41.91	601	894	1254	1866
337450*	50	16	7W	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.



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



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	
				IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

319820*	2	18	7W	0.030	0.76	0.045	1.14	0.515	13.08	28	41	95	141
319840*	4	18	7W	0.030	0.76	0.060	1.52	0.625	15.88	53	53	170	253
319850*	8	18	7W	0.030	0.76	0.060	1.52	0.805	20.45	104	155	292	435
337460*	12	18	7W	0.030	0.76	0.080	2.03	1.020	25.91	155	231	442	658
337470*	16	18	7W	0.030	0.76	0.080	2.03	1.130	28.70	206	307	554	824
337480*	20	18	7W	0.030	0.76	0.080	2.03	1.235	31.37	254	378	666	991
337490*	24	18	7W	0.030	0.76	0.080	2.03	1.465	37.21	308	459	802	1194
337500*	36	18	7W	0.030	0.76	0.080	2.03	1.630	41.40	461	687	1116	1661
337510*	50	18	7W	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	7W	0.030	0.76	0.045	1.14	0.595	15.11	40	60	135	201
337530*	4	16	7W	0.030	0.76	0.060	1.52	0.695	17.65	78.0	116	214	318
337540*	8	16	7W	0.030	0.76	0.060	1.52	0.900	22.86	153	228	399	594
337550*	12	16	7W	0.030	0.76	0.080	2.03	1.110	28.19	229	341	584	869
337560*	16	16	7W	0.030	0.76	0.080	2.03	1.260	32.00	304	453	712	1060
337570*	20	16	7W	0.030	0.76	0.080	2.03	1.315	33.40	380	566	845	1258
337580*	24	16	7W	0.030	0.76	0.080	2.03	1.510	38.35	455	677	1009	1502
337590*	36	16	7W	0.030	0.76	0.110	2.79	1.820	46.23	682	1014	1259	1874
337600*	50	16	7W	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.

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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance

Compliances:

Industry Compliances:

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

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 length and shipped on non-returnable wood reels



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)

Applications:

- In free air, cable tray, 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 the NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -30°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Good physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- 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
- Low-Smoke, Zero-Halogen jacket is environmentally safe

Compliances:

Industry Compliances:

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

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 1202

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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELDED PAIRS/TRIADS 18 AWG CONDUCTORS

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

OVERALL SHIELDED PAIRS/TRIADS 16 AWG CONDUCTORS

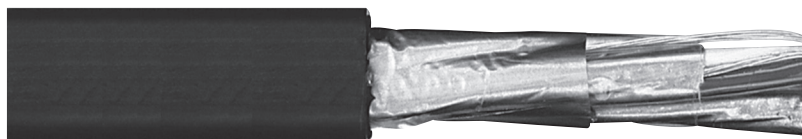
393820	1	16	7W	0.030	0.76	0.045	1.14	0.340	8.64	18	27	57	84
393830	1 TRI	16	7W	0.030	0.76	0.045	1.14	0.360	9.14	26	39	72	107
393840*	2	16	7W	0.030	0.76	0.045	1.14	0.560	14.22	36	54	121	180
393850*	4	16	7W	0.030	0.76	0.060	1.52	0.650	16.51	69	103	186	277
393860*	8	16	7W	0.030	0.76	0.060	1.52	0.810	20.57	135	201	324	482
393870*	12	16	7W	0.030	0.76	0.080	2.03	1.000	25.40	202	300	486	723
393880*	16	16	7W	0.030	0.76	0.080	2.03	1.120	28.45	268	399	616	917
393890*	20	16	7W	0.030	0.76	0.080	2.03	1.170	29.72	335	498	734	1092
393900*	24	16	7W	0.030	0.76	0.080	2.03	1.440	36.58	401	597	894	1330
393910*	36	16	7W	0.030	0.76	0.080	2.03	1.650	41.91	601	894	1254	1866
393920*	50	16	7W	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.

GenFree®

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



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	
				IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

393930*	2	18	7W	0.030	0.76	0.045	1.14	0.510	12.95	27	41	92	137
393940*	4	18	7W	0.030	0.76	0.060	1.52	0.630	16.00	53	78	167	249
393950*	8	18	7W	0.030	0.76	0.080	2.03	0.855	21.72	103	153	326	485
393960*	12	18	7W	0.030	0.76	0.080	2.03	1.030	26.16	153	228	441	656
393970*	16	18	7W	0.030	0.76	0.080	2.03	1.140	28.96	206	307	554	824
393980*	20	18	7W	0.030	0.76	0.080	2.03	1.265	32.13	254	378	676	1006
393990*	24	18	7W	0.030	0.76	0.080	2.03	1.450	36.83	311	463	795	1183
394000*	36	18	7W	0.030	0.76	0.110	2.79	1.650	41.91	461	687	1118	1664
394010*	50	18	7W	0.030	0.76	0.110	2.79	2.085	52.96	640	952	1616	2405

INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG CONDUCTORS

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

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)

Applications:

- In free air, cable tray, 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 the NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -30°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Good physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- 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
- Low-Smoke, Zero-Halogen jacket is environmentally safe

Compliances:**Industry Compliances:**

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

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 1202

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



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)

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 of 60 mils or less
- Meets cold bend test at -30°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Good physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- 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
- Low-Smoke, Zero-Halogen jacket is environmentally safe

Compliances:

Industry Compliances:

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

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 1202

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 TRIADS	COND. SIZE (AWG)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

INDIVIDUAL AND OVERALL SHIELDED TRIADS 18 AWG CONDUCTORS

394120*	2 TRI	18	7W	0.030	0.76	0.060	1.52	0.595	15.11	38	57	150	223
394130*	4 TRI	18	7W	0.030	0.76	0.060	1.52	0.690	17.53	74	110	231	344
394140*	8 TRI	18	7W	0.030	0.76	0.080	2.03	0.940	23.88	145	216	435	647
394150*	12 TRI	18	7W	0.030	0.76	0.080	2.03	1.135	28.83	217	323	612	911
394160*	16 TRI	18	7W	0.030	0.76	0.080	2.03	1.265	32.13	289	430	773	1150
394170*	20 TRI	18	7W	0.030	0.76	0.080	2.03	1.405	35.69	361	537	935	1391
394180*	24 TRI	18	7W	0.030	0.76	0.080	2.03	1.565	39.75	432	643	1097	1633
394190*	36 TRI	18	7W	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	7W	0.030	0.76	0.060	1.52	0.640	16.26	57	84	183	272
394210*	4 TRI	16	7W	0.030	0.76	0.060	1.52	0.745	18.92	111	165	494	735
394220*	8 TRI	16	7W	0.030	0.76	0.080	2.03	1.015	25.78	219	326	549	817
394230*	12 TRI	16	7W	0.030	0.76	0.080	2.03	1.230	31.24	328	487	777	1156
394240*	16 TRI	16	7W	0.030	0.76	0.080	2.03	1.370	34.80	437	650	988	1470
394250*	20 TRI	16	7W	0.030	0.76	0.080	2.03	1.525	38.74	545	811	1120	1667
394260*	24 TRI	16	7W	0.030	0.76	0.110	2.79	1.760	44.70	654	973	1530	2277
394270*	36 TRI	16	7W	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 Multi-Conductor Control and Power Cables

SPECIFICATION NUMBER	PRODUCT DESCRIPTION	REVISION DATE	PAGE NUMBER
4050 CHTC®	XLPE/XL-CPE, Control, Unshielded 600 V or 1000 V ¹ UL Type TC—E-2 Color Code	Feb 2025	12
4075† CHTC®	XLPE/XL-CPE, Control, Unshielded 600 V or 1000 V UL Type TC—E-1 Color Code	Feb 2025	13
4100† CHTC®	XLPE/XL-CPE, Low-Voltage Power, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —Method 4 Color Code	Feb 2025	14
4300† FREP®	FR-EPR/CPE, Control, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —E-2 Color Code	Feb 2025	15
4310† FREP®	FR-EPR/CPE, Control, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —E-1 Color Code	Feb 2025	16
4325† FREP®	FR-EPR/CPE, Control, Shielded 600 V or 1000 V UL Type TC-ER ¹ , Overall Shielded—E-2 Color Code	Feb 2025	17
4350† FREP®	FR-EPR/CPE, Low-Voltage Power, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —Method 4 Color Code	Feb 2025	18
4500† CVTC®	XLPE/PVC, Control, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —E-2 Color Code	Feb 2025	19
4550† CVTC®	XLPE/PVC, Low-Voltage Power, Unshielded 600 V or 1000 V UL Type TC-ER ¹ —Method 4 Color Code	Feb 2025	20
4560† CVTC® Flexible VFD	XLPE/PVC, Low-Voltage Power, Al/Polyester/Al + TC Braid Shielded, 1000 V UL Flexible Motor Supply and WTTC, 600 V or 1000 V UL Type TC-ER—Method 4 Color Code w/ Green/Yellow Ground	Feb 2025	21
4580† CVTC® VFD	XLPE/PVC, Low-Voltage Power, Copper Tape Shielded 2000 V UL Type TC-ER ¹ —Method 4 Color Code	Feb 2025	22
4585† CVTC® VFD	XLPE/PVC, Low-Voltage Power, Copper Tape Shielded 600 V or 1000 V UL Type TC-ER ¹ —Method 4 Color Code	Feb 2025	23
4600† VNTC®	PVC/Nylon/PVC, Control, Unshielded 600 V or 1000 V UL Type TC-ER ¹ (18 AWG/16 AWG)—E-2 Color Code	Feb 2025	24
4650† VNTC®	PVC/Nylon/PVC, Control, Unshielded 600 V UL Type TC-ER ¹ (14 AWG—10 AWG)—E-2 Color Code	Feb 2025	25
4700† VNTC®	PVC/Nylon/PVC, Control, Shielded 600 V UL Type TC-ER ¹ , Overall Shielded—E-2 Color Code	Feb 2025	26
4750† VNTC®	PVC/Nylon/PVC, Low-Voltage Power, Unshielded 600 V UL Type TC-ER ¹ — Method 4 Color Code	Feb 2025	27
4900 GenFree®	XLPE/LSZH, Control 600 V UL Type TC-LS-ER ¹ —E-2 Color Code	Feb 2025	28
4925 GenFree®	XLPE/LSZH, Control, Shielded 600 V UL Type TC-LS-ER ¹ , Overall Shielded—E-2 Color Code	Feb 2025	29
4950 GenFree®	XLPE/LSZH, Low-Voltage Power, Unshielded 600 V UL Type TC-LS-ER—Method 4 Color Code	Feb 2025	30

CHTC®XLPE/XL-CPE, Control, Unshielded 600 V or 1000 V¹
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)

Applications:

- In free air, cable tray, 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 of 60 mils or less
- Meets cold bend test at -40°C
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides excellent oil and chemical resistance
- Excellent low temperature cold bend characteristics
- Oil Res I & II
- "Heavy Duty" rating per ICEA standards

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:

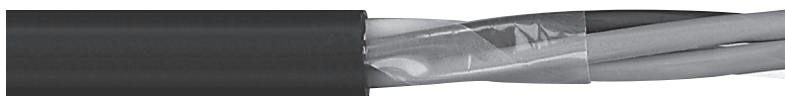
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

16 AWG CONDUCTORS

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

14 AWG CONDUCTORS

223650*	2 Flat	14	7W	0.030	0.76	0.045	1.14	.230 x .365	5.84 x 9.27	25	38	67	100
272270*	2	14	7W	0.030	0.76	0.045	1.14	0.370	9.40	26	39	75	112
223790*	3	14	7W	0.030	0.76	0.045	1.14	0.390	9.91	39	59	95	141
223780*	4	14	7W	0.030	0.76	0.045	1.14	0.425	10.80	53	78	118	176
223770*	5	14	7W	0.030	0.76	0.045	1.14	0.465	11.81	66	98	143	213
223750*	7	14	7W	0.030	0.76	0.045	1.14	0.505	12.83	92	137	179	266
223760*	9	14	7W	0.030	0.76	0.060	1.52	0.620	15.75	118	176	249	371
223640*	12	14	7W	0.030	0.76	0.060	1.52	0.700	17.78	158	235	317	472
223670*	19	14	7W	0.030	0.76	0.060	1.52	0.815	20.70	250	372	467	695
232850*	37	14	7W	0.030	0.76	0.080	2.03	1.130	28.70	490	730	899	1338

12 AWG CONDUCTORS

260730*	2 Flat	12	7W	0.030	0.76	0.045	1.14	.250 x .400	6.35 x 10.16	50	74	85	126
272260*	2	12	7W	0.030	0.76	0.045	1.14	0.410	10.41	51	76	98	146
223910*	3	12	7W	0.030	0.76	0.045	1.14	0.435	11.05	64	95	127	189
223930*	4	12	7W	0.030	0.76	0.045	1.14	0.475	12.07	85	126	160	238
223920*	5	12	7W	0.030	0.76	0.045	1.14	0.520	13.21	106	158	194	289
224080*	7	12	7W	0.030	0.76	0.060	1.52	0.595	15.11	168	251	264	393
224070*	9	12	7W	0.030	0.76	0.060	1.52	0.695	17.65	191	285	345	513
224090*	12	12	7W	0.030	0.76	0.060	1.52	0.760	19.30	247	367	401	597
265940*	19	12	7W	0.030	0.76	0.080	2.03	0.955	24.26	403	600	690	1027
347050*	37	12	7W	0.030	0.76	0.080	2.03	1.265	32.13	741	1103	1393	2073

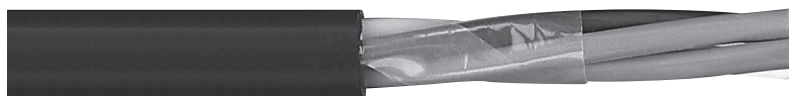
10 AWG CONDUCTORS

361350*	2 Flat	10	7W	0.030	0.76	0.045	1.14	.270 x .445	6.86 x 11.30	66	98	117	174
355210*	2	10	7W	0.030	0.76	0.045	1.14	0.450	11.43	65	97	121	180
224100*	3	10	7W	0.030	0.76	0.045	1.14	0.485	12.32	100	150	176	262
224110*	4	10	7W	0.030	0.76	0.060	1.52	0.555	14.10	131	195	215	319
224120*	5	10	7W	0.030	0.76	0.060	1.52	0.615	15.62	167	249	291	433
224130*	7	10	7W	0.030	0.76	0.060	1.52	0.670	17.02	229	341	362	539
347060*	9	10	7W	0.030	0.76	0.060	1.52	0.765	19.43	302	449	456	679
347070*	12	10	7W	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.

¹ 16 AWG conductors are only rated 600V; 10/12/14 AWG are rated 600V or 1000V

CHTC®XLPE/XL-CPE, Control, Unshielded 600 V or 1000 V
UL Type TC—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	
				IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km

14 AWG CONDUCTORS

256260*	2 Flat	14	7W	0.030	0.76	0.045	1.14	.230 x .365	5.84 x 9.27	25	38	61	91
330580	2	14	7W	0.030	0.76	0.045	1.14	0.370	9.40	26	39	75	112
244160	3	14	7W	0.030	0.76	0.045	1.14	0.390	9.91	39	59	95	141
239640	4	14	7W	0.030	0.76	0.045	1.14	0.425	10.80	53	78	118	176
239700	5	14	7W	0.030	0.76	0.045	1.14	0.465	11.81	66	98	143	213
237500	7	14	7W	0.030	0.76	0.045	1.14	0.505	12.83	92	137	179	266
239660	9	14	7W	0.030	0.76	0.060	1.52	0.620	15.75	118	176	249	371
252400	12	14	7W	0.030	0.76	0.060	1.52	0.700	17.78	158	235	317	472
252410*	19	14	7W	0.030	0.76	0.060	1.52	0.815	20.70	250	372	467	695
383980*	25	14	7W	0.030	0.76	0.080	2.03	1.000	25.40	330	491	632	941
383990*	30	14	7W	0.030	0.76	0.080	2.03	1.050	26.67	398	592	731	1088
384000*	37	14	7W	0.030	0.76	0.080	2.03	1.130	28.70	490	730	899	1338

12 AWG CONDUCTORS

233320*	2 Flat	12	7W	0.030	0.76	0.045	1.14	.250 x .400	6.35 x 10.16	40	60	81	120
239670	2	12	7W	0.030	0.76	0.045	1.14	0.400	10.16	41	61	91	135
233330	3	12	7W	0.030	0.76	0.045	1.14	0.435	11.05	64	95	127	189
239680	4	12	7W	0.030	0.76	0.045	1.14	0.475	12.07	85	126	160	238
239650	5	12	7W	0.030	0.76	0.045	1.14	0.520	13.21	106	158	194	289
243530	7	12	7W	0.030	0.76	0.060	1.52	0.595	15.11	168	251	264	393
239620	9	12	7W	0.030	0.76	0.060	1.52	0.695	17.65	191	285	345	513
252360	12	12	7W	0.030	0.76	0.060	1.52	0.780	19.81	255	380	435	647
252230	19	12	7W	0.030	0.76	0.080	2.03	0.955	24.26	403	600	690	1027
384010*	25	12	7W	0.030	0.76	0.080	2.03	1.095	27.81	515	767	858	1277
384020*	30	12	7W	0.030	0.76	0.080	2.03	1.175	29.85	618	920	997	1484
384030*	37	12	7W	0.030	0.76	0.080	2.03	1.265	32.13	741	1103	1393	2073

10 AWG CONDUCTORS

384040*	2 Flat	10	7W	0.030	0.76	0.045	1.14	.270 x .445	6.86 x 11.30	66	98	117	174
243540	2	10	7W	0.030	0.76	0.045	1.14	0.455	5.26	67	100	126	188
239630	3	10	7W	0.030	0.76	0.045	1.14	0.485	12.32	100	150	176	262
233310	4	10	7W	0.030	0.76	0.060	1.52	0.560	14.22	134	199	240	357
262680	5	10	7W	0.030	0.76	0.060	1.52	0.605	15.37	164	243	262	390
375010	7	10	7W	0.030	0.76	0.060	1.52	0.670	17.02	234	349	376	560
235680	9	10	7W	0.030	0.76	0.060	1.52	0.765	19.43	302	449	456	679
375470	12	10	7W	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.

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)

Applications:

- In free air, cable tray, 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 of 60 mils or less
- Meets cold bend test at -40°C
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides excellent oil and chemical resistance
- Excellent low temperature cold bend characteristics
- Oil Res I & II
- "Heavy Duty" rating per ICEA standards

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

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



CHTC®

XLPE/XL-CPE, Low-Voltage Power, Unshielded 600 V or 1000 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)

Applications:

- In free air, cable tray, 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 for 2 AWG and larger



Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides excellent oil and chemical resistance
- Excellent low temperature cold bend characteristics
- Oil Res I & II
- "Heavy Duty" rating per ICEA standards

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

Other Compliances:

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

Packaging:

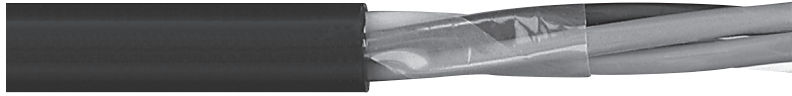
- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ 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 CONDUCTORS														
383790*	3	14	7W	14	0.030	0.76	0.045	1.14	0.425	10.80	53	78	118	176
309340*	3	12	7W	12	0.030	0.76	0.045	1.14	0.475	12.07	85	126	160	238
282570*	3	10	7W	10	0.030	0.76	0.060	1.52	0.526	14.22	134	199	240	357
282580	3	8	7W	10	0.045	1.14	0.060	1.52	0.635	16.13	190	283	325	483
282590*	4	8	7W	10	0.045	1.14	0.060	1.52	0.705	17.91	242	360	405	603
282600	3	6	7W	8	0.045	1.14	0.060	1.52	0.720	18.29	301	448	481	716
282610*	4	6	7W	8	0.045	1.14	0.060	1.52	0.820	20.83	384	571	600	893
282620	3	4	7W	8	0.045	1.14	0.060	1.52	0.825	20.96	448	667	667	992
282630*	4	4	7W	8	0.045	1.14	0.060	1.52	0.950	24.13	578	861	905	1347
282640	3	2	7W	6	0.045	1.14	0.080	2.03	1.000	25.40	716	1066	1024	1524
282650*	4	2	7W	6	0.045	1.14	0.080	2.03	1.120	28.45	919	1368	1295	1927
366070*	3	1	19W	6	0.055	1.4	0.080	2.03	1.120	28.45	872	1298	1199	1784
366080*	4	1	19W	6	0.055	1.4	0.080	2.03	1.235	31.37	1136	1691	1704	2536
282660*	3	1/0	19W	6	0.055	1.4	0.080	2.03	1.215	30.86	1081	1609	1463	2177
338860*	4	1/0	19W	6	0.055	1.4	0.080	2.03	1.330	33.78	1413	2103	1830	2723
282670*	3	2/0	19W	6	0.055	1.4	0.080	2.03	1.310	33.27	1341	1996	1810	2694
292410*	4	2/0	19W	6	0.055	1.4	0.080	2.03	1.480	37.59	1760	2619	2326	3462
366090*	3	3/0	19W	4	0.055	1.4	0.080	2.03	1.420	36.07	1717	2555	2437	3627
366100*	4	3/0	19W	4	0.055	1.4	0.080	2.03	1.570	39.88	2245	3341	3123	4648
282680*	3	4/0	19W	4	0.055	1.4	0.080	2.03	1.540	39.12	2132	3173	2659	3957
338880*	4	4/0	19W	4	0.055	1.4	0.110	2.79	1.765	44.83	2796	4161	3909	5817
338890*	3	250	37W	4	0.065	1.65	0.110	2.79	1.740	44.20	2494	3712	3196	4756
338900*	4	250	37W	4	0.065	1.65	0.110	2.79	1.935	49.15	3282	4884	4571	6803
282690*	3	350	37W	3	0.065	1.65	0.110	2.79	2.010	51.05	3477	5174	4423	6582
338910*	4	350	37W	3	0.065	1.65	0.110	2.79	2.180	55.37	4577	6811	6068	9030
282710*	3	500	37W	2	0.065	1.65	0.110	2.79	2.305	58.55	4938	7349	6097	9074
331150*	4	500	37W	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.

FREP®FR-EPR/CPE, Control, Unshielded 600 V or 1000 V
UL Type TC-ER¹—E-2 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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG CONDUCTORS

279560	2 Flat	14	7W	0.030	0.76	0.045	1.14	.360 x .225	9.17 x 5.72	25	38	58	86
305320*	2	14	7W	0.030	0.76	0.045	1.14	0.370	9.40	26	39	71	106
280180	3	14	7W	0.030	0.76	0.045	1.14	0.380	9.65	39	58	84	125
280190	4	14	7W	0.030	0.76	0.045	1.14	0.415	10.54	52	77	106	157
279870	5	14	7W	0.030	0.76	0.045	1.14	0.455	11.56	65	96	129	192
280200	7	14	7W	0.030	0.76	0.045	1.14	0.500	12.70	91	135	170	253
280210	9	14	7W	0.030	0.76	0.060	1.52	0.610	15.49	116	173	238	354
279880	12	14	7W	0.030	0.76	0.060	1.52	0.685	17.40	155	231	295	439
279580	19	14	7W	0.030	0.76	0.060	1.52	0.795	20.19	246	366	437	650
279590	25	14	7W	0.030	0.76	0.080	2.03	0.975	24.77	323	481	606	901
347080*	30	14	7W	0.030	0.76	0.080	2.03	1.030	26.16	387	576	747	1112
279600	37	14	7W	0.030	0.76	0.080	2.03	1.105	28.07	479	712	843	1254

12 AWG CONDUCTORS

279840	2 Flat	12	7W	0.030	0.76	0.045	1.14	.395 x .245	10.03 x 6.22	40	60	77	114
307690*	2	12	7W	0.030	0.76	0.045	1.14	0.410	10.41	41	61	94	140
280170	3+ Grnd ²	12	7W	0.030	0.76	0.045	1.14	0.430	10.92	82	122	133	198
280300	3	12	7W	0.030	0.76	0.045	1.14	0.420	10.67	62	92	113	168
280310	4	12	7W	0.030	0.76	0.045	1.14	0.460	11.68	82	122	143	212
280320	5	12	7W	0.030	0.76	0.045	1.14	0.500	12.70	103	153	175	260
279890	7	12	7W	0.030	0.76	0.060	1.52	0.580	14.73	144	214	247	367
280330	9	12	7W	0.030	0.76	0.060	1.52	0.680	17.27	185	275	323	480
280340	12	12	7W	0.030	0.76	0.060	1.52	0.760	19.30	247	367	405	602
279610	19	12	7W	0.030	0.76	0.080	2.03	0.930	23.62	391	581	643	957
295400*	25	12	7W	0.030	0.76	0.080	2.03	1.095	27.81	514	765	838	1247
347100*	30	12	7W	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1002	1491
301870	37	12	7W	0.030	0.76	0.080	2.03	1.240	31.50	762	1134	1240	1845

10 AWG CONDUCTORS

279570	2 Flat	10	7W	0.030	0.76	0.045	1.14	.445 x .270	11.30 x 6.86	64	95	106	158
305340*	2	10	7W	0.030	0.76	0.045	1.14	0.455	11.56	65	97	128	190
279680	3+ Grnd ²	10	7W	0.030	0.76	0.045	1.14	0.490	12.45	131	195	193	287
280410	3	10	7W	0.030	0.76	0.045	1.14	0.470	11.94	98	146	157	234
279900	4	10	7W	0.030	0.76	0.045	1.14	0.515	13.08	131	195	201	299
279620	5	10	7W	0.030	0.76	0.060	1.52	0.605	15.37	164	243	268	399
279630	7	10	7W	0.030	0.76	0.060	1.52	0.655	16.64	229	341	352	524
279640	9	10	7W	0.030	0.76	0.060	1.52	0.760	19.30	295	439	464	690
279650	12	10	7W	0.030	0.76	0.080	2.03	0.895	22.73	392	584	607	903

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 Uninsulated tinned copper ground supplied where noted.**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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance—burns to ash when exposed to flame
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- Excellent low temperature cold bend characteristics

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

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



FREP®

FR-EPR/CPE, Control, Unshielded 600 V or 1000 V
UL Type TC-ER¹—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 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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance—burns to ash when exposed to flame
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- Excellent low temperature cold bend characteristics

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:

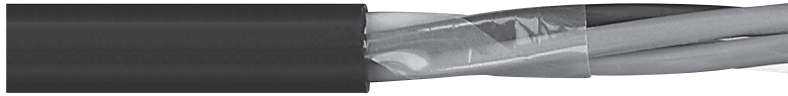
- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG CONDUCTORS

280590	2 Flat	14	7W	0.030	0.76	0.045	1.14	.360 x .225	9.14 x 5.72	25	38	58	86
280230	3	14	7W	0.030	0.76	0.045	1.14	0.380	9.65	39	58	84	125
280240	4	14	7W	0.030	0.76	0.045	1.14	0.415	10.54	52	77	106	157
280250	5	14	7W	0.030	0.76	0.045	1.14	0.460	11.68	65	96	131	195
280260	7	14	7W	0.030	0.76	0.045	1.14	0.500	12.70	91	135	170	253
280270	9	14	7W	0.030	0.76	0.060	1.52	0.610	15.49	116	173	238	354
280280	12	14	7W	0.030	0.76	0.060	1.52	0.685	17.40	155	231	295	439
280290*	19	14	7W	0.030	0.76	0.060	1.52	0.815	20.70	246	366	442	657
385350*	25	14	7W	0.030	0.76	0.080	2.03	0.935	23.75	323	481	614	913
385360*	30	14	7W	0.030	0.76	0.080	2.03	1.030	26.16	387	576	747	1112
385370*	37	14	7W	0.030	0.76	0.080	2.03	1.110	28.19	466	694	875	1302

12 AWG CONDUCTORS

279850	2 Flat	12	7W	0.030	0.76	0.045	1.14	.395 x .245	10.03 x 6.22	40	60	77	114
280350*	2	12	7W	0.030	0.76	0.045	1.14	0.410	10.41	42	62	94	140
280360	3	12	7W	0.030	0.76	0.045	1.14	0.420	10.67	62	92	113	168
279910	4	12	7W	0.030	0.76	0.045	1.14	0.460	11.68	82	122	143	212
280370	5	12	7W	0.030	0.76	0.045	1.14	0.505	12.83	103	153	177	264
280380	7	12	7W	0.030	0.76	0.060	1.52	0.580	14.73	144	214	247	367
280390*	9	12	7W	0.030	0.76	0.060	1.52	0.680	17.27	185	275	333	495
280400	12	12	7W	0.030	0.76	0.060	1.52	0.755	19.18	247	367	400	596
383930*	19	12	7W	0.030	0.76	0.080	2.03	0.940	23.88	391	582	688	1024
383940*	25	12	7W	0.030	0.76	0.080	2.03	1.095	27.81	515	767	854	1271
383950*	30	12	7W	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1002	1491
330800*	37	12	7W	0.030	0.76	0.080	2.03	1.240	31.50	762	1134	1240	1845

10 AWG CONDUCTORS

280600*	2 Flat	10	7W	0.030	0.76	0.045	1.14	.445 x .270	11.30 x 6.86	64	95	106	158
280420*	2	10	7W	0.030	0.76	0.045	1.14	0.450	11.43	65	97	124	184
279920	3	10	7W	0.030	0.76	0.045	1.14	0.475	12.07	98	146	160	238
279930	4	10	7W	0.030	0.76	0.060	1.52	0.515	13.08	131	195	201	299
330990*	5	10	7W	0.030	0.76	0.060	1.52	0.605	15.37	164	243	267	398
280430*	7	10	7W	0.030	0.76	0.060	1.52	0.670	17.02	229	341	349	520
382880*	9	10	7W	0.030	0.76	0.060	1.52	0.765	19.43	294	438	453	674
383970*	12	10	7W	0.030	0.76	0.080	2.03	0.895	22.73	392	584	607	903

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, Shielded 600 V¹ or 1000 V
UL Type TC-ER², Overall Shielded—E-2 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	
				IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km

OVERALL SHIELD 16 AWG CONDUCTORS

280470	2	16	7W	0.030	0.76	0.045	1.14	0.340	8.64	24	36	61	91
280490	3	16	7W	0.030	0.76	0.045	1.14	0.355	9.02	33	48	76	113

OVERALL SHIELD 14 AWG CONDUCTORS

280980*	2	14	7W	0.030	0.76	0.045	1.14	0.375	9.53	29	43	74	110
354800*	3	14	7W	0.030	0.76	0.045	1.14	0.395	10.03	42	63	95	141
305330*	4	14	7W	0.030	0.76	0.045	1.14	0.430	10.92	55	82	118	176
354810*	5	14	7W	0.030	0.76	0.045	1.14	0.470	11.94	68	101	142	211
354820*	7	14	7W	0.030	0.76	0.045	1.14	0.510	12.95	94	140	176	262
367120*	9	14	7W	0.030	0.76	0.060	1.52	0.625	15.88	121	180	243	362
354830*	12	14	7W	0.030	0.76	0.060	1.52	0.705	17.91	160	238	304	452
305360*	19	14	7W	0.030	0.76	0.060	1.52	0.820	20.83	248	369	486	723
367130*	25	14	7W	0.030	0.76	0.080	2.03	0.940	25.53	325	484	627	933
367140*	30	14	7W	0.030	0.76	0.080	2.03	1.035	26.29	389	579	750	1116
367150*	37	14	7W	0.030	0.76	0.080	2.03	1.115	28.32	468	696	878	1307

OVERALL SHIELD 12 AWG CONDUCTORS

367160*	2	12	7W	0.030	0.76	0.045	1.14	0.415	10.45	43	64	97	144
367170*	3	12	7W	0.030	0.76	0.045	1.14	0.440	11.18	66	98	127	189
326650*	4	12	7W	0.030	0.76	0.045	1.14	0.480	12.19	87	129	160	238
367180*	5	12	7W	0.030	0.76	0.045	1.14	0.525	13.34	108	162	194	289
326660*	7	12	7W	0.030	0.76	0.060	1.52	0.590	14.99	146	217	255	380
367190*	9	12	7W	0.030	0.76	0.060	1.52	0.700	17.78	193	287	340	506
326640*	12	12	7W	0.030	0.76	0.060	1.52	0.770	19.56	249	370	412	613
326670*	19	12	7W	0.030	0.76	0.080	2.03	0.945	24.00	393	584	655	974
367200*	25	12	7W	0.030	0.76	0.080	2.03	1.100	27.94	517	769	857	1275
367210*	30	12	7W	0.030	0.76	0.080	2.03	1.155	29.80	620	923	1005	1496
367220*	37	12	7W	0.030	0.76	0.080	2.03	1.245	31.62	764	1137	1243	1850

OVERALL SHIELD 10 AWG CONDUCTORS

311900*	2	10	7W	0.030	0.76	0.045	1.14	0.460	11.68	68	101	131	195
367230*	3	10	7W	0.030	0.76	0.045	1.14	0.490	12.45	103	155	175	260
311910*	4	10	7W	0.030	0.76	0.060	1.52	0.565	14.35	136	202	237	353
367240*	5	10	7W	0.030	0.76	0.060	1.52	0.620	15.75	170	253	287	427
367250*	7	10	7W	0.030	0.76	0.060	1.52	0.675	17.15	237	353	384	571
367260*	9	10	7W	0.030	0.76	0.060	1.52	0.765	19.43	298	443	467	695
367270*	12	10	7W	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 16 AWG conductors are only rated 600V; 10/12/14 AWG are rated 600V or 1000V

² Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance—burns to ash when exposed to flame
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- Excellent low temperature cold bend characteristics

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

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



FREP®

FR-EPR/CPE, Low-Voltage Power, Unshielded 600 V or 1000 V UL Type TC-ER¹—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:

- 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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors



Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance—burns to ash when exposed to flame
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- Excellent low temperature cold bend characteristics

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2

Industry Compliances (cont'd):

- 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

Other Compliances:

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

Packaging:

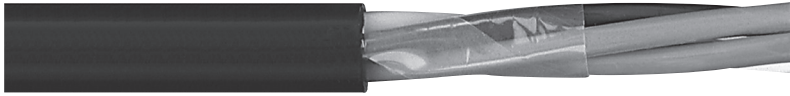
- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ 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 CONDUCTORS														
383830*	3	14	7W	14	0.030	0.76	0.045	1.14	0.390	9.91	55	82	118	176
296450*	3	12	7W	12	0.030	0.76	0.045	1.14	0.430	10.92	82	122	133	197
296440*	3	10	7W	10	0.030	0.76	0.045	1.14	0.495	12.57	131	195	195	291
279660	3	8	7W	10	0.045	1.14	0.060	1.52	0.635	16.13	189	281	296	440
279670	4	8	7W	10	0.045	1.14	0.060	1.52	0.710	18.03	241	358	374	556
283210	3	6	7W	8	0.045	1.14	0.060	1.52	0.720	18.29	300	446	425	633
300380	4	6	7W	8	0.045	1.14	0.060	1.52	0.820	20.83	382	569	545	811
283200	3	4	7W	8	0.045	1.14	0.080	2.03	0.875	22.23	447	665	658	979
295390	4	4	7W	8	0.045	1.14	0.080	2.03	0.960	24.38	578	861	825	1227
293600	3	2	7W	6	0.045	1.14	0.080	2.03	1.000	25.40	710	1056	962	1432
295890	4	2	7W	6	0.045	1.14	0.080	2.03	1.095	27.81	919	1367	1216	1810
297730*	3	1	19W	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1021	1519
356740*	4	1	19W	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1521	2263
283220	3	1/0	19W	6	0.055	1.40	0.080	2.03	1.215	30.86	1080	1607	1407	2093
294530*	4	1/0	19W	6	0.055	1.40	0.080	2.03	1.340	34.04	1413	2102	1795	2671
284560	3	2/0	19W	6	0.055	1.40	0.080	2.03	1.310	33.27	1340	1994	1656	2465
295360*	4	2/0	19W	6	0.055	1.40	0.080	2.03	1.440	36.58	1759	2619	2208	3286
325700*	3	3/0	19W	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2176	3238
365750*	4	3/0	19W	4	0.055	1.40	0.080	2.03	1.565	39.75	2245	3341	2725	4054
325110	3	4/0	19W	4	0.055	1.40	0.080	2.03	1.525	38.74	2130	3169	2517	3746
346980*	4	4/0	19W	4	0.055	1.40	0.110	2.79	1.750	44.45	2796	4160	3356	4993
300780	3	250	37W	4	0.065	1.65	0.110	2.79	1.725	43.82	2494	3711	2952	4392
346990*	4	250	37W	4	0.065	1.65	0.110	2.79	1.915	48.64	3282	4884	4019	5980
325120	3	350	37W	3	0.065	1.65	0.110	2.79	1.950	49.53	3471	5164	3962	5895
347000*	4	350	37W	3	0.065	1.65	0.110	2.79	2.180	55.37	4572	6803	5317	7912
298020	3	500	37W	2	0.065	1.65	0.110	2.79	2.210	56.13	4928	7332	5474	8145
14407.546500*	4	500	37W	2	0.065	1.65	0.110	2.79	2.475	62.87	6509	9687	7607	11319
14407.247000*	3	750	61W	1	0.080	2.03	0.110	2.79	2.650	67.31	7351	10938	8000	11904
14407.547000*	4	750	61W	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.

CVTC®XLPE/PVC, Control, Unshielded 600 V or 1000 V
UL Type TC-ER¹—E-2 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	
				IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km

14 AWG CONDUCTORS

770460	2 Flat	14	7W	0.030	0.76	0.045	1.14	.225 x .360	5.72 x 9.14	25	38	60	89
771080*	2	14	7W	0.030	0.76	0.045	1.14	0.365	9.27	25	37	73	109
770530	3	14	7W	0.030	0.76	0.045	1.14	0.380	9.65	39	58	87	129
770610	4	14	7W	0.030	0.76	0.045	1.14	0.415	10.54	52	77	109	162
770420	5	14	7W	0.030	0.76	0.045	1.14	0.455	11.56	65	96	131	195
770560	7	14	7W	0.030	0.76	0.045	1.14	0.495	12.57	91	135	172	255
770540	9	14	7W	0.030	0.76	0.060	1.52	0.605	15.37	116	173	241	358
770470	12	14	7W	0.030	0.76	0.060	1.52	0.685	17.40	155	231	303	451
770550	19	14	7W	0.030	0.76	0.060	1.52	0.795	20.19	246	366	449	668
770450*	25	14	7W	0.030	0.76	0.080	2.03	0.985	25.02	323	481	641	954
295320*	30	14	7W	0.030	0.76	0.080	2.03	1.050	26.67	387	571	740	1101
770430*	37	14	7W	0.030	0.76	0.080	2.03	1.130	28.70	490	729	888	1322

12 AWG CONDUCTORS

770480	2 Flat	12	7W	0.030	0.76	0.045	1.14	.245 x .395	6.22 x 10.03	40	60	79	118
346920*	2	12	7W	0.030	0.76	0.045	1.14	0.410	10.41	41	61	96	143
365720	3+ Grnd ²	12	7W	0.030	0.76	0.045	1.14	0.430	10.92	82	122	137	204
770570	3	12	7W	0.030	0.76	0.045	1.14	0.420	10.67	62	92	116	173
770490	4	12	7W	0.030	0.76	0.045	1.14	0.460	11.68	82	122	147	219
770410	5	12	7W	0.030	0.76	0.045	1.14	0.500	12.70	103	153	180	268
770950	7	12	7W	0.030	0.76	0.060	1.52	0.585	14.86	144	214	258	384
770580	9	12	7W	0.030	0.76	0.060	1.52	0.680	17.27	185	275	327	487
770520	12	12	7W	0.030	0.76	0.060	1.52	0.755	19.18	247	367	413	614
770700*	19	12	7W	0.030	0.76	0.080	2.03	0.930	23.62	391	581	662	986
347110*	25	12	7W	0.030	0.76	0.080	2.03	1.095	27.81	515	767	885	1317
347120*	30	12	7W	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1005	1496
347130*	37	12	7W	0.030	0.76	0.080	2.03	1.240	31.50	741	1103	1185	1764

10 AWG CONDUCTORS

770590	2 Flat	10	7W	0.030	0.76	0.045	1.14	.270 x .445	6.86 x 11.30	64	95	108	160
346930*	2	10	7W	0.030	0.76	0.045	1.14	0.455	11.56	67	100	130	193
770670	3+ Grnd ²	10	7W	0.030	0.76	0.045	1.14	0.490	12.45	131	195	193	287
770600	3	10	7W	0.030	0.76	0.045	1.14	0.470	11.94	98	146	159	237
770370	4	10	7W	0.030	0.76	0.060	1.52	0.550	13.97	131	195	220	327
770380	5	10	7W	0.030	0.76	0.060	1.52	0.605	15.37	164	243	272	404
770900	7	10	7W	0.030	0.76	0.060	1.52	0.650	16.51	229	341	353	525
770390*	9	10	7W	0.030	0.76	0.060	1.52	0.765	19.43	294	438	460	685
770400	12	10	7W	0.030	0.76	0.080	2.03	0.895	22.73	392	584	615	914

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 Uninsulated tinned copper ground supplied where noted.**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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance

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

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



CVTC®

XLPE/PVC, Low-Voltage Power, Unshielded 600 V or 1000 V

UL Type TC-ER¹—Method 4 Color Code

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

- Applications:**
- In free air, cable tray, 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 for 3 or more conductors



- Features:**
- Rated at 90°C wet or dry
 - Ripcord applied to all cables with jacket of 60 mils or less
 - Meets cold bend test at -25°C
 - Type ER versions meets crush and impact requirements of Type MC cables.
 - Sunlight- and weather-resistant
 - Excellent flame resistance
 - Excellent physical, thermal and electrical properties
 - Excellent moisture resistance
 - Good resistance to abrasion and heat deformation
 - Provides good oil and chemical resistance

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

- Compliances (cont'd.):**
- 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
 - RoHS Compliant
- 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 CONDUCTORS														
383860*	3	14	7W	14	0.030	0.76	0.045	1.14	0.390	9.91	53	79	116	173
383870*	3	12	7W	12	0.030	0.76	0.045	1.14	0.430	10.92	82	122	137	204
383880*	3	10	7W	10	0.030	0.76	0.060	1.52	0.485	12.32	135	201	236	351
783160	3	8	7W	10	0.045	1.14	0.060	1.52	0.640	16.26	189	281	308	458
783190	4	8	7W	10	0.045	1.14	0.060	1.52	0.710	18.03	241	358	384	572
339470	3	6	7W	8	0.045	1.14	0.060	1.52	0.720	18.29	300	446	431	642
339480	4	6	7W	8	0.045	1.14	0.060	1.52	0.820	20.83	382	569	552	822
783330	3	4	7W	8	0.045	1.14	0.080	2.03	0.870	22.10	447	665	643	956
339500*	4	4	7W	8	0.045	1.14	0.060	1.52	0.950	24.13	578	860	820	1220
325610	3	2	7W	6	0.045	1.14	0.080	2.03	1.000	25.40	710	1056	937	1394
339520*	4	2	7W	6	0.045	1.14	0.080	2.03	1.095	27.81	919	1367	1214	1806
352150*	3	1	19W	6	0.055	1.40	0.080	2.03	1.100	27.94	875	1302	1140	1697
371250*	4	1	19W	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1690	1704	2536
339530	3	1/0	19W	6	0.055	1.40	0.080	2.03	1.185	30.10	1080	1607	1362	2027
339540*	4	1/0	19W	6	0.055	1.40	0.080	2.03	1.340	34.04	1413	2103	1825	2716
339550	3	2/0	19W	6	0.055	1.40	0.080	2.03	1.290	32.77	1340	1994	1666	2480
339560*	4	2/0	19W	6	0.055	1.40	0.080	2.03	1.425	36.20	1759	2618	2180	3244
371260*	3	3/0	19W	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2437	3626
371270*	4	3/0	19W	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	3123	4647
783230	3	4/0	19W	4	0.055	1.40	0.080	2.03	1.500	38.10	2130	3169	2501	3721
339570*	4	4/0	19W	4	0.055	1.40	0.110	2.79	1.720	43.69	2796	4160	3318	4937
328540*	3	250	37W	4	0.065	1.65	0.110	2.79	1.725	43.82	2494	3711	3029	4507
339590*	4	250	37W	4	0.065	1.65	0.110	2.79	1.930	49.02	3282	4884	4048	6023
222570	3	350	37W	3	0.065	1.65	0.110	2.79	1.940	49.28	3471	5164	4082	6074
339600*	4	350	37W	3	0.065	1.65	0.110	2.79	2.145	54.48	4572	6803	5276	7850
222710	3	500	37W	2	0.065	1.65	0.110	2.79	2.210	56.13	4928	7332	5572	8291
06790.086500*	4	500	37W	2	0.065	1.65	0.110	2.79	2.445	62.10	6500	9673	7184	10690
06790.077000*	3	750	61W	1	0.080	2.03	0.140	3.56	2.810	71.37	7278	10831	9101	13544
06790.047000*	4	750	61W	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.
¹Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.



CVTC® VFD - Flexible Motor Supply Cable

XLPE/PVC, Low-Voltage Power, Al/Polyester/Al + TC Braid Shielded,
1000 V UL Flexible Motor Supply and WTTC, 600 V or 1000 V
UL Type TC-ER—Method 4 Color Code w/Green/Yellow Ground



Product Construction:

Conductor:

- 16 AWG thru 10 AWG tinned copper per ASTM B33, Class K stranding per ASTM B172
- 8 AWG thru 2 AWG tinned copper per ASTM B33, Class H stranding per ASTM B173

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:

- One full-sized green/yellow insulated ground, same AWG size as circuit conductors

Metallic Shield:

- Overall aluminum/polyester/aluminum shield with 25% minimum overlap in conjunction with overall tinned copper braid with 85% coverage and full-sized tinned copper drain wire(s)

Jacket:

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

Options:

- Colored jackets available upon request
- 2000 V rated designs

Applications:

- For use with AC motors controlled by pulse-width modulated inverter in VFD applications rated up to 1000 V
- In free air, raceways or direct burial
- For use in aerial, conduit, open tray and underground duct/installations
- Permitted for use in Class I, Div. 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC

Features:

- Rated at 90°C wet or dry
- Combination foil/braid shield provides maximum shield coverage required for Variable Frequency Drive (VFD) applications
- Meets cold bend test at -25°C
- TC-ER listing meets crush and impact requirements for Type MC cables
- Abrasion- and chemical-resistant
- Stable electrical properties over a broad temperature range

Features (cont'd):

- UV/sunlight-resistant
- Flexible strand conductors for all sizes to allow for ease of installation and long-term performance in light duty flexing applications

Compliances:

Industry Compliances:

- UL 2277 1000 V Flexible Motor Supply Cable and 1000 V Wind Turbine Tray Cable
- UL 1277 600 V Type TC-ER UL File # E57179
- UL 44 Type RHH or RHW-2 conductors
- ICEA S-95-658/NEMA WC70
- CSA C22.2 No. 210 1000 V AWM I/II A/B FT4 SR

Flame Test Compliances:

- UL 1581 VW-1
- IEEE 1202/CSA FT4
- UL 1685

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/kcmil)	COND. STRAND	INSULATED GROUND WIRE SIZE (AWG)	DRAIN WIRE NUMBER X SIZE (AWG)	NOMINAL CONDUCTOR DIAMETER		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		NET WEIGHT	
						IN	mm	IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km

16 AWG - 2 AWG CONDUCTORS

438070	3	16	26W	16	1 x 16	0.055	1.40	0.045	1.14	0.045	1.14	0.485	12.32	153	227
438080	3	14	41W	14	1 x 14	0.070	1.78	0.045	1.14	0.060	1.52	0.550	13.97	205	305
438090	3	12	65W	12	1 x 12	0.093	2.36	0.045	1.14	0.060	1.52	0.610	15.49	263	392
438100	3	10	105W	10	1 x 10	0.112	2.84	0.045	1.14	0.060	1.52	0.655	16.64	343	510
438110	3	8	133W	8	4 x 14	0.154	3.91	0.060	1.52	0.080	2.03	0.875	22.23	546	813
438120	3	6	133W	6	4 x 12	0.210	5.33	0.060	1.52	0.080	2.03	1.025	26.04	832	1238
438130	3	4	133W	4	4 x 10	0.260	6.60	0.060	1.52	0.080	2.03	1.150	29.21	1178	1752
438140	3	2	133W	2	4 x 8	0.327	8.31	0.060	1.52	0.080	2.03	1.314	33.38	1665	2478

Dimensions and weights are nominal, subject to industry tolerances.

† 16 AWG conductors are not listed as RHH or RHW-2.



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)

- 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



- Applications (cont'd):
- 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
- 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/ 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 CONDUCTORS														
395070V	3	14	7W	3 x 18	0.060	1.52	0.060	1.52	0.580	14.73	91	135	212	315
395080V	3	12	7W	3 x 16	0.060	1.52	0.060	1.52	0.605	15.37	127	189	267	397
395090V	3	10	7W	3 x 14	0.060	1.52	0.060	1.52	0.655	16.64	183	272	333	495
395100V	3	8	7W	3 x 14	0.070	1.78	0.060	1.52	0.760	19.30	246	366	465	691
395110V	3	6	7W	3 x 12	0.070	1.78	0.080	2.03	0.880	22.35	368	548	650	967
395120V	3	4	7W	3 x 12	0.070	1.78	0.080	2.03	0.985	25.02	522	777	830	1236
395130V	3	2	7W	3 x 10	0.070	1.78	0.080	2.03	1.120	28.45	801	1192	1173	1746
395140V	3	1/0	19W	3 x 6	0.090	2.29	0.080	2.03	1.350	34.29	1348	2006	1818	2704
395150V	3	2/0	19W	3 x 6	0.090	2.29	0.080	2.03	1.455	36.96	1616	2405	2148	3196
395160V*	3	3/0	19W	3 x 5	0.090	2.29	0.080	2.03	1.530	38.86	2010	2991	2562	3812
395170V	3	4/0	19W	3 x 4	0.090	2.29	0.110	2.79	1.725	43.82	2517	3745	3219	4789
395180V*	3	250	37W	3 x 4	0.105	2.67	0.110	2.79	1.915	48.64	2895	4308	3672	5463
395190V	3	350	37W	3 x 2	0.105	2.67	0.110	2.79	2.130	54.10	4089	6084	5003	7445
395200V	3	500	37W	3 x 1	0.105	2.67	0.110	2.79	2.400	60.96	5693	8471	6691	9956

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 600 V or 1000 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)

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

Features (cont'd):

- 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, 1000 V, UL File # E57179
- UL Type XHHW-2 conductors per UL 44

Flame Test Compliances:

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

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/ 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 CONDUCTORS														
395073V*	3	14	7W	3 x 18	0.030	0.76	0.045	1.14	0.400	14.73	88	131	180	315
395083V*	3	12	7W	3 x 16	0.030	0.76	0.045	1.14	0.440	11.18	123	183	227	337
395093V*	3	10	7W	3 x 14	0.030	0.76	0.045	1.14	0.490	12.45	178	264	283	421
395103V*	3	8	7W	3 x 14	0.045	1.14	0.060	1.52	0.650	16.51	239	355	395	587
395113V*	3	6	7W	3 x 12	0.045	1.14	0.060	1.52	0.730	18.54	357	531	553	822
395123V*	3	4	7W	3 x 12	0.045	1.14	0.080	2.03	0.865	21.97	506	753	706	1050
395133V*	3	2	7W	3 x 10	0.045	1.14	0.080	2.03	0.995	25.27	777	1156	997	1484
395143V*	3	1/0	19W	3 x 6	0.055	1.40	0.080	2.03	1.185	30.10	1308	1946	1545	2299
395153V*	3	2/0	19W	3 x 6	0.055	1.40	0.080	2.03	1.290	32.77	1568	2332	1826	2717
395163V*	3	3/0	19W	3 x 5	0.055	1.40	0.080	2.03	1.370	34.80	1950	2901	2178	3240
395173V*	3	4/0	19W	3 x 4	0.055	1.40	0.080	2.03	1.500	38.10	2441	3633	2736	4071
395183V*	3	250	37W	3 x 4	0.065	1.65	0.110	2.79	1.725	43.82	2808	4179	3121	4644
395193V*	3	350	37W	3 x 2	0.065	1.65	0.110	2.79	1.940	49.28	3966	5902	4253	6328
395203V*	3	500	37W	3 x 1	0.065	1.65	0.110	2.79	2.210	56.13	5522	8217	5687	8462

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 or 1000 V
UL Type TC-ER¹ (18 AWG/16 AWG)—E-2 Color Code

Product Construction:

Conductor:

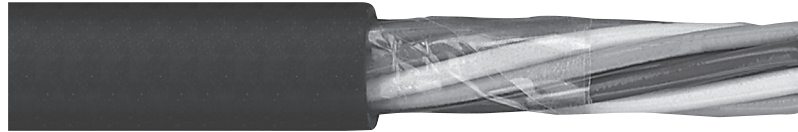
- 18 AWG and 16 AWG fully annealed stranded bare copper to ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with 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)



Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance

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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

18 AWG CONDUCTORS

236090	2 Flat	18	7W	0.019	0.48	0.045	1.14	.180 x .270	4.57 x 6.86	10	15	31	47
318050*	2	18	7W	0.019	0.48	0.045	1.14	0.270	6.86	11	16	38	57
245920	3	18	7W	0.019	0.48	0.045	1.14	0.285	7.24	15	23	46	68
236100	4	18	7W	0.019	0.48	0.045	1.14	0.305	7.75	20	30	54	80
244680	5	18	7W	0.019	0.48	0.045	1.14	0.330	8.38	26	38	64	94
244660	7	18	7W	0.019	0.48	0.045	1.14	0.355	9.02	36	53	81	121
264570*	9	18	7W	0.019	0.48	0.045	1.14	0.415	10.54	46	69	107	158
233270*	10	18	7W	0.019	0.48	0.045	1.14	0.425	10.80	51	76	114	170
236120	12	18	7W	0.019	0.48	0.045	1.14	0.460	11.68	61	91	131	195
244720*	15	18	7W	0.019	0.48	0.045	1.14	0.510	12.95	77	114	158	235
236130	19	18	7W	0.019	0.48	0.060	1.52	0.565	14.35	97	145	208	309
236140*	25	18	7W	0.019	0.48	0.060	1.52	0.655	16.64	128	190	266	395
347140*	30	18	7W	0.019	0.48	0.060	1.52	0.695	17.65	154	229	310	461
236150	37	18	7W	0.019	0.48	0.060	1.52	0.735	18.67	189	282	362	539

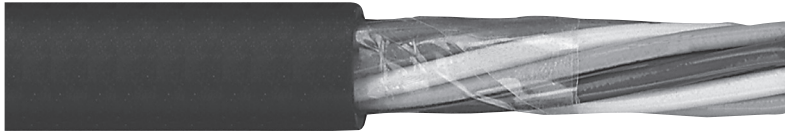
16 AWG CONDUCTORS

236160	2 Flat	16	7W	0.019	0.48	0.045	1.14	.195 x .290	4.95 x 7.37	16	24	40	59
245580	2	16	7W	0.019	0.48	0.045	1.14	0.290	7.37	16	24	47	69
236170	3	16	7W	0.019	0.48	0.045	1.14	0.305	7.75	24	36	57	85
236180	4	16	7W	0.019	0.48	0.045	1.14	0.335	8.51	33	48	71	105
236190	5	16	7W	0.019	0.48	0.045	1.14	0.360	9.14	41	61	84	125
236210	7	16	7W	0.019	0.48	0.045	1.14	0.395	10.03	57	85	111	165
243640	9	16	7W	0.019	0.48	0.045	1.14	0.455	11.56	73	109	143	213
236230*	10	16	7W	0.019	0.48	0.045	1.14	0.495	12.57	81	121	154	229
236240	12	16	7W	0.019	0.48	0.045	1.14	0.505	12.83	98	145	174	259
244650*	15	16	7W	0.019	0.48	0.060	1.52	0.605	15.37	122	182	229	340
236260	19	16	7W	0.019	0.48	0.060	1.52	0.635	16.13	153	228	284	423
236280	25	16	7W	0.019	0.48	0.060	1.52	0.725	18.42	203	303	362	538
244670*	30	16	7W	0.019	0.48	0.060	1.52	0.760	19.30	242	360	426	634
236290*	37	16	7W	0.019	0.48	0.060	1.52	0.825	20.96	301	448	505	751

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

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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG CONDUCTORS

235040	2 Flat	14	7W	0.019	0.48	0.045	1.14	.205 x .320	5.21 x 8.13	25	38	52	77
245590*	2	14	7W	0.019	0.48	0.045	1.14	0.320	8.13	26	38	59	88
235050	3	14	7W	0.019	0.48	0.045	1.14	0.335	8.51	39	58	75	112
235060	4	14	7W	0.019	0.48	0.045	1.14	0.365	9.27	52	77	94	140
235070	5	14	7W	0.019	0.48	0.045	1.14	0.395	10.03	65	96	114	169
235080	7	14	7W	0.019	0.48	0.045	1.14	0.435	11.05	91	135	151	225
235090	9	14	7W	0.019	0.48	0.045	1.14	0.505	12.83	116	173	195	291
235110	12	14	7W	0.015	0.38	0.060	1.52	0.595	15.11	155	231	263	391
235130	19	14	7W	0.015	0.38	0.060	1.52	0.690	17.53	246	366	388	577
235150	25	14	7W	0.015	0.38	0.060	1.52	0.805	20.45	323	481	503	748
235160*	30	14	7W	0.015	0.38	0.080	2.03	0.895	22.73	387	576	637	948
235170	37	14	7W	0.015	0.38	0.080	2.03	0.960	24.38	479	712	749	1114

12 AWG CONDUCTORS

234580	2 Flat	12	7W	0.019	0.48	0.045	1.14	.225 x .355	5.72 x 9.02	40	60	71	105
260150*	2	12	7W	0.019	0.48	0.045	1.14	0.355	9.02	41	61	80	120
234590	3	12	7W	0.019	0.48	0.045	1.14	0.375	9.53	62	92	104	154
255090	3+Grnd	12	7W	0.019	0.48	0.045	1.14	0.375	9.53	82	122	124	184
277460 ²	3	12	7W	0.019	0.48	0.045	1.14	0.375	9.53	62	92	104	154
234600	4	12	7W	0.019	0.48	0.045	1.14	0.390	9.91	82	122	131	195
226420	5	12	7W	0.019	0.48	0.045	1.14	0.450	11.43	103	153	163	242
234620	7	12	7W	0.019	0.48	0.045	1.14	0.490	12.45	144	214	215	319
226500	9	12	7W	0.019	0.48	0.060	1.52	0.600	15.24	185	275	296	440
234640	12	12	7W	0.019	0.48	0.060	1.52	0.670	17.02	247	367	372	553
243600	19	12	7W	0.019	0.48	0.060	1.52	0.785	19.94	391	581	583	868
243610*	25	12	7W	0.019	0.48	0.080	2.03	0.940	23.88	514	765	766	1140
321720*	30	12	7W	0.019	0.48	0.080	2.03	1.030	26.16	618	920	919	1368
234680*	37	12	7W	0.019	0.48	0.080	2.03	1.105	28.07	762	1134	1100	1637

10 AWG CONDUCTORS

236300	2 Flat	10	7W	0.024	0.61	0.045	1.14	.260 x .420	6.60 x 10.67	64	95	104	154
243630*	2	10	7W	0.024	0.61	0.045	1.14	0.420	10.67	65	97	115	171
236310	3	10	7W	0.024	0.61	0.045	1.14	0.445	11.30	98	146	154	228
255080	3+Grnd	10	7W	0.024	0.61	0.045	1.14	0.445	11.30	131	195	185	276
236320	4	10	7W	0.024	0.61	0.045	1.14	0.490	12.45	131	195	196	292
236330	5	10	7W	0.024	0.61	0.060	1.52	0.575	14.61	164	243	261	389
236340	7	10	7W	0.024	0.61	0.060	1.52	0.625	15.88	229	341	344	511
243620*	9	10	7W	0.024	0.61	0.060	1.52	0.725	18.42	295	439	440	655
236350	12	10	7W	0.024	0.61	0.060	1.52	0.805	20.45	392	584	558	830

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.**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 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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance

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





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 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)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance

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:

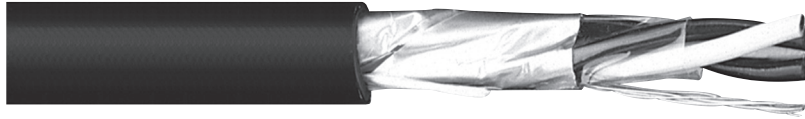
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

OVERALL SHIELD - 18 AWG CONDUCTORS

261130	2	18	7W	0.019	0.48	0.045	1.14	0.270	6.86	12	18	39	58
261140	3	18	7W	0.019	0.48	0.045	1.14	0.285	7.24	17	26	48	71
261150	4	18	7W	0.019	0.48	0.045	1.14	0.315	8.00	22	33	59	88
260000*	5	18	7W	0.019	0.48	0.045	1.14	0.340	8.64	28	41	70	104
259980*	7	18	7W	0.019	0.48	0.045	1.14	0.365	9.27	38	56	87	130

OVERALL SHIELD - 16 AWG CONDUCTORS

247620	2	16	7W	0.019	0.48	0.045	1.14	0.295	7.49	18	27	48	71
261160	3	16	7W	0.019	0.48	0.045	1.14	0.310	7.87	26	39	60	90
243710	4	16	7W	0.019	0.48	0.045	1.14	0.340	8.64	35	51	76	113
266580*	5	16	7W	0.019	0.48	0.045	1.14	0.370	9.40	43	64	90	134
243740*	7	16	7W	0.019	0.48	0.045	1.14	0.400	10.16	59	88	115	171
243560*	9	16	7W	0.019	0.48	0.045	1.14	0.460	11.68	75	112	143	213
229600*	12	16	7W	0.019	0.48	0.045	1.14	0.515	13.08	100	148	181	270

OVERALL SHIELD - 14 AWG CONDUCTORS

243660	2	14	7W	0.019	0.48	0.045	1.14	0.325	8.26	28	42	63	93
243720	3	14	7W	0.019	0.48	0.045	1.14	0.345	8.76	41	61	81	121
243650	4	14	7W	0.019	0.48	0.045	1.14	0.375	9.53	54	80	100	149
243570*	5	14	7W	0.019	0.48	0.045	1.14	0.400	10.16	67	104	123	183
243580	7	14	7W	0.019	0.48	0.045	1.14	0.440	11.18	93	142	161	240

OVERALL SHIELD - 12 AWG CONDUCTORS

243670	2	12	7W	0.019	0.48	0.045	1.14	0.360	9.14	43	64	84	125
243810*	3	12	7W	0.019	0.48	0.045	1.14	0.375	9.53	64	95	107	159
243840	4	12	7W	0.019	0.48	0.045	1.14	0.415	10.54	84	125	137	204

OVERALL SHIELD - 10 AWG CONDUCTORS

243770*	2	10	7W	0.024	0.61	0.045	1.14	0.425	10.80	67	100	116	172
243820*	3	10	7W	0.024	0.61	0.045	1.14	0.460	11.68	100	149.00	162	241.06
243690*	4	10	7W	0.024	0.61	0.045	1.14	0.500	12.70	133	198	203	302

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**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 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

Jacket:

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

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties

Features (cont'd):

- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance

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

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	
					IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km
14 AWG - 500 kcmil CONDUCTORS														
383890*	3	14	7W	14	0.019	0.48	0.045	1.14	0.335	8.51	52	77	88	130
234250	3	12	7W	12	0.019	0.48	0.045	1.14	0.375	9.53	82	122	124	184
234260	3	10	7W	10	0.024	0.61	0.045	1.14	0.445	11.30	131	195	185	276
386700**	3	10	7W	10	0.024	0.61	0.045	1.14	0.445	11.30	135	201	209	311
236370	3	8	7W	10	0.035	0.89	0.060	1.52	0.590	14.99	189	281	288	429
236380	4	8	7W	10	0.035	0.89	0.060	1.52	0.645	16.38	241	358	359	534
226410	3	6	7W	8	0.035	0.89	0.060	1.52	0.665	16.89	300	446	410	610
231980	4	6	7W	8	0.035	0.89	0.060	1.52	0.730	18.54	382	569	513	763
236400	3	4	7W	8	0.046	1.17	0.060	1.52	0.825	20.96	447	665	617	918
236410*	4	4	7W	8	0.046	1.17	0.080	2.03	0.955	24.26	578	861	822	1223
236420	3	2	7W	6	0.046	1.17	0.080	2.03	1.000	25.40	710	1056	950	1414
236430*	4	2	7W	6	0.046	1.17	0.080	2.03	1.100	27.94	919	1367	1206	1795
236440	3	1/0	19W	6	0.057	1.45	0.080	2.03	1.190	30.23	1080	1607	1386	2062
219580*	4	1/0	19W	6	0.057	1.45	0.080	2.03	1.315	33.40	1413	2102	1781	2651
243760	3	2/0	19W	6	0.057	1.45	0.080	2.03	1.295	32.89	1340	1994	1690	2514
219610*	4	2/0	19W	6	0.057	1.45	0.080	2.03	1.430	36.32	1759	2618	2179	3242
221560	3	4/0	19W	4	0.057	1.45	0.080	2.03	1.505	38.23	2130	3169	2534	3770
329240*	4	4/0	19W	4	0.057	1.45	0.110	2.79	1.730	43.94	2796	4160	3390	5044
222490	3	250	37W	4	0.068	1.73	0.110	2.79	1.730	43.94	2494	3711	3062	4556
297050*	4	250	37W	4	0.068	1.73	0.110	2.79	1.910	48.51	3281	4883	3973	5912
226430	3	350	37W	3	0.068	1.73	0.110	2.79	1.945	49.40	3471	5164	4125	6139
297060*	4	350	37W	3	0.068	1.73	0.110	2.79	2.155	54.74	4572	6803	5387	8015
219630	3	500	37W	2	0.068	1.73	0.110	2.79	2.215	56.26	4928	7332	5621	8363
222510*	4	500	37W	2	0.068	1.73	0.110	2.79	2.455	62.36	6500	9673	7311	10879

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.



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)

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 of 60 mils or less
- Meets cold bend test at -30°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Good physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- 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
- Low-Smoke, Zero-Halogen jacket is environmentally safe

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-LS-ER, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WCS7
- ICEA T-33-655

Flame Test Compliances:

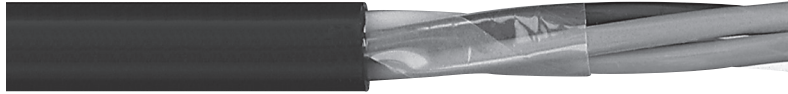
- UL 1581/UL 2556
- UL 1685 Vertical Flame Test
- IEEE 1202

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- 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	
				IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

14 AWG CONDUCTORS

394280	2 Flat	14	7W	0.030	0.76	0.045	1.14	.365 x .230	9.30 x 5.80	26	38	61	91
394290*	2	14	7W	0.030	0.76	0.045	1.14	0.370	9.40	26	39	71	106
394300	3	14	7W	0.030	0.76	0.045	1.14	0.385	9.78	39	58	87	129
394310*	4	14	7W	0.030	0.76	0.045	1.14	0.420	10.67	52	77	107	159
394320	5	14	7W	0.030	0.76	0.045	1.14	0.460	11.68	65	96	130	194
394330	7	14	7W	0.030	0.76	0.045	1.14	0.500	12.70	91	135	167	248
394340*	9	14	7W	0.030	0.76	0.060	1.52	0.610	15.49	116	173	236	351
394350*	12	14	7W	0.030	0.76	0.060	1.52	0.685	17.40	155	231	290	432
394360*	19	14	7W	0.030	0.76	0.060	1.52	0.795	20.19	246	366	425	632
394370*	25	14	7W	0.030	0.76	0.080	2.03	0.935	23.75	323	481	624	929
394380*	30	14	7W	0.030	0.76	0.080	2.03	1.030	26.16	388	577	747	1112
394390*	37	14	7W	0.030	0.76	0.080	2.03	1.105	28.07	479	712	818	1216

12 AWG CONDUCTORS

394400*	2 Flat	12	7W	0.030	0.76	0.045	1.14	.400 x .245	10.20 x 6.20	40	60	82	122
394410*	2	12	7W	0.030	0.76	0.045	1.14	0.410	10.41	41	61	94	140
394420 ²	3+ Grnd	12	7W	0.030	0.76	0.045	1.14	0.435	11.05	85	127	148	220
394430	3	12	7W	0.030	0.76	0.045	1.14	0.425	10.80	62	92	115	171
394440*	4	12	7W	0.030	0.76	0.045	1.14	0.475	12.07	85	127	157	234
394450*	5	12	7W	0.030	0.76	0.045	1.14	0.520	13.21	106	158	191	284
394460*	7	12	7W	0.030	0.76	0.060	1.52	0.595	15.11	149	221	268	399
394470*	9	12	7W	0.030	0.76	0.060	1.52	0.695	17.65	191	285	337	502
394480*	12	12	7W	0.030	0.76	0.060	1.52	0.760	19.30	247	367	398	591
394490*	19	12	7W	0.030	0.76	0.080	2.03	0.940	23.88	391	582	688	1024
394500*	25	12	7W	0.030	0.76	0.080	2.03	1.095	27.81	515	767	854	1271
394510*	30	12	7W	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1002	1491
394520*	37	12	7W	0.030	0.76	0.080	2.03	1.240	31.50	762	1134	1240	1845

10 AWG CONDUCTORS

394530*	2 Flat	10	7W	0.030	0.76	0.045	1.14	.445 x .270	11.30 x 6.90	64	95	113	168
394540*	2	10	7W	0.030	0.76	0.045	1.14	0.455	11.56	65	97	128	190
394550 ²	3+ Grnd	10	7W	0.030	0.76	0.045	1.14	0.495	12.57	131	195	195	291
394560	3	10	7W	0.030	0.76	0.045	1.14	0.475	12.07	98	146	164	244
394570	4	10	7W	0.030	0.76	0.060	1.52	0.560	14.22	134	199	234	348
394580*	5	10	7W	0.030	0.76	0.060	1.52	0.605	15.37	164	243	268	398
394590*	7	10	7W	0.030	0.76	0.060	1.52	0.655	16.64	229	341	349	519
394600*	9	10	7W	0.030	0.76	0.060	1.52	0.760	19.30	294	440	464	691
394610*	12	10	7W	0.030	0.76	0.080	2.03	0.905	22.99	392	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

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	
				IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km

OVERALL SHIELD - 16 AWG CONDUCTORS

394960*	2	16	7W	0.025	0.64	0.045	1.14	0.320	8.13	19	28	52	77
394630*	3	16	7W	0.025	0.64	0.045	1.14	0.335	8.51	27	40	66	98

OVERALL SHIELD - 14 AWG CONDUCTORS

394640*	2	14	7W	0.030	0.76	0.045	1.14	0.375	9.53	29	43	74	110
394650*	3	14	7W	0.030	0.76	0.045	1.14	0.395	10.03	42	63	95	141
394660*	4	14	7W	0.030	0.76	0.045	1.14	0.430	10.92	55	82	118	176
394670*	5	14	7W	0.030	0.76	0.045	1.14	0.470	11.94	68	101	142	211
394680*	7	14	7W	0.030	0.76	0.045	1.14	0.510	12.95	94	140	176	262
394690*	9	14	7W	0.030	0.76	0.060	1.52	0.625	15.88	121	180	243	362
394700*	12	14	7W	0.030	0.76	0.060	1.52	0.705	17.91	160	238	304	452
394710*	19	14	7W	0.030	0.76	0.060	1.52	0.820	20.83	252	375	471	701
394720*	25	14	7W	0.030	0.76	0.080	2.03	0.940	25.53	325	484	627	933
394730*	30	14	7W	0.030	0.76	0.080	2.03	1.035	26.29	389	579	750	1116
394740*	37	14	7W	0.030	0.76	0.080	2.03	1.115	28.32	468	696	878	1307

OVERALL SHIELD - 12 AWG CONDUCTORS

394750*	2	12	7W	0.030	0.76	0.045	1.14	0.415	10.45	43	64	97	144
394760*	3	12	7W	0.030	0.76	0.045	1.14	0.440	11.18	66	98	127	189
394770*	4	12	7W	0.030	0.76	0.045	1.14	0.480	12.19	87	129	160	238
394780*	5	12	7W	0.030	0.76	0.045	1.14	0.525	13.34	108	162	194	289
394790*	7	12	7W	0.030	0.76	0.060	1.52	0.600	15.24	151	225	271	403
394800*	9	12	7W	0.030	0.76	0.060	1.52	0.700	17.78	193	287	340	506
394810*	12	12	7W	0.030	0.76	0.060	1.52	0.770	19.56	249	371	431	641
394820*	19	12	7W	0.030	0.76	0.080	2.03	0.945	24.00	393	585	691	1028
394830*	25	12	7W	0.030	0.76	0.080	2.03	1.100	27.94	517	769	857	1275
394840*	30	12	7W	0.030	0.76	0.080	2.03	1.155	29.80	620	923	1005	1496
394850*	37	12	7W	0.030	0.76	0.080	2.03	1.245	31.62	764	1137	1243	1850

OVERALL SHIELD - 10 AWG CONDUCTORS

394860*	2	10	7W	0.030	0.76	0.045	1.14	0.460	11.68	68	101	131	195
394870*	3	10	7W	0.030	0.76	0.045	1.14	0.490	12.45	103	155	175	260
394880*	4	10	7W	0.030	0.76	0.060	1.52	0.565	14.35	136	202	237	353
394890*	5	10	7W	0.030	0.76	0.060	1.52	0.620	15.75	170	253	287	427
394900*	7	10	7W	0.030	0.76	0.060	1.52	0.675	17.15	237	353	384	571
394910*	9	10	7W	0.030	0.76	0.060	1.52	0.765	19.43	298	443	467	695
394920*	12	10	7W	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.**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)

Applications:

- In free air, cable tray, 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 the NEC

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -30°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Good physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- 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
- Low-Smoke, Zero-Halogen jacket is environmentally safe

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

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
- RoHS Compliant

Packaging:

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



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 tinned annealed copper per ASTM B33
- Class B stranding per ASTM B8

Jacket:

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

Applications:

- In free air, cable tray, 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 the NEC



Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -30°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Good physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance
- 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
- Low-Smoke, Zero-Halogen jacket is environmentally safe

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

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
- RoHS Compliant

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 CONDUCTORS														
394930*	3	14	7W	14	0.030	0.76	0.045	1.14	0.390	9.91	55	82	118	176
394940*	3	12	7W	12	0.030	0.76	0.045	1.14	0.435	11.05	82	122	136	202
394950*	3	10	7W	10	0.030	0.76	0.045	1.14	0.485	12.32	124	184	194	289
14428.030800	3	8	7W	10	0.045	1.14	0.060	1.52	0.640	16.26	189	281	305	454
14428.040800*	4	8	7W	10	0.045	1.14	0.060	1.52	0.720	18.29	242	360	393	585
14428.030600	3	6	7W	8	0.045	1.14	0.060	1.52	0.740	18.80	297	442	456	679
14428.040600*	4	6	7W	8	0.045	1.14	0.060	1.52	0.790	20.07	384	571	561	835
14428.030400	3	4	7W	8	0.045	1.14	0.080	2.03	0.880	22.35	442	658	642	955
14428.040400*	4	4	7W	8	0.045	1.14	0.080	2.03	0.950	24.13	578	861	822	1223
14428.030200	3	2	7W	6	0.045	1.14	0.080	2.03	1.010	25.65	703	1046	979	1457
14428.040200*	4	2	7W	6	0.045	1.14	0.080	2.03	1.090	27.69	919	1368	1235	1838
14428.030100*	3	1	19W	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1021	1594
14428.040100*	4	1	19W	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1521	2264
14428.035100	3	1/0	19W	6	0.055	1.40	0.080	2.03	1.215	30.86	1080	1607	1450	2158
14428.045100*	4	1/0	19W	6	0.055	1.40	0.080	2.03	1.330	33.78	1413	2103	1820	2709
14428.035200	3	2/0	19W	6	0.055	1.40	0.080	2.03	1.300	33.02	1340	1994	1720	2560
14428.045200*	4	2/0	19W	6	0.055	1.40	0.080	2.03	1.440	36.58	1760	2619	2208	3286
14428.035300*	3	3/0	19W	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2176	3238
14428.045300*	4	3/0	19W	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	2788	3405
14428.035400	3	4/0	19W	4	0.055	1.40	0.080	2.03	1.540	39.12	2130	3170	2614	3890
14428.045400*	4	4/0	19W	4	0.055	1.40	0.110	2.79	1.790	45.47	2796	4161	3495	5201
14428.036000*	3	250	37W	4	0.065	1.65	0.110	2.79	1.760	44.70	2494	3712	3184	4738
14428.046000*	4	250	37W	4	0.065	1.65	0.110	2.79	1.915	48.64	3282	4884	4019	5981
14428.036200	3	350	37W	3	0.065	1.65	0.110	2.79	1.950	49.53	3471	5164	4054	6032
14428.046200*	4	350	37W	3	0.065	1.65	0.110	2.79	2.165	54.99	4577	6811	5436	8090
14428.036500	3	500	37W	2	0.065	1.65	0.110	2.79	2.245	57.02	4934	7343	5847	8702
14428.046500*	4	500	37W	2	0.065	1.65	0.110	2.79	2.475	62.87	6509	9687	7607	11321
14428.037000*	3	750	61W	1	0.080	2.03	0.140	3.56	2.810	71.37	7278	10831	9145	13610
14428.047000*	4	750	61W	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.

Notes

600 V – 2 kV Industrial Power Cables

SPECIFICATION NUMBER	PRODUCT DESCRIPTION	REVISION DATE	PAGE NUMBER
5050 [†] DuraSheath®	EPR/XL-CPE, Low-Voltage Power, Unshielded 600 V or 1000 V, UL Type RHH/RHW-2 or 600 V Type USE-2	Feb 2025	33
5310 [†] Diesel Locomotive Cable (DLO)	2000 Volts (EPR/XL-CPE), UL RHH/RHW-2 2000 V and CSA RW90 2000V, Flexible, Oil-, Sunlight- and Ozone-Resistant, Flame-Retardant -40°C to 90°C	Feb 2025	34

DuraSheath®

EPR/XL-CPE, Low-Voltage Power, Unshielded

600 V or 1000 V, UL Type RHH/RHW-2 or 600 V UL Type 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
- Colors available upon request

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
- Easy Glider® low friction technology for easy cable pulling
- 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

Industry Compliances (cont'd.):

- UL 44 Type RHH/RHW-2, UL File # E523838
- UL 854 Type USE-2, UL File # E514203

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. STRAND	COND. SIZE (AWG/ kcmil)	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						
14 AWG - 1000 kcmil CONDUCTORS																
14511.411405*	7W	14	0.07	1.80	0.030	0.76	0.14	3.56	0.015	0.38	0.17	4.32	13	19	24	36
14511.411205*	7W	12	0.09	2.26	0.030	0.76	0.16	4.06	0.015	0.38	0.19	4.83	20	30	33	49
14511.411005*	7W	10	0.11	2.87	0.030	0.76	0.18	4.57	0.015	0.38	0.22	5.59	32	48	47	70
14511.410805	7W	8	0.14	3.61	0.045	1.14	0.24	6.10	0.015	0.38	0.28	7.11	51	76	78	116
14511.410605	7W	6	0.18	4.52	0.045	1.14	0.28	7.11	0.030	0.76	0.34	8.64	81	121	124	184
14511.410405	7W	4	0.23	5.72	0.045	1.14	0.32	8.13	0.030	0.76	0.39	9.91	129	192	180	268
14511.710205	7W	2	0.28	7.19	0.045	1.14	0.38	9.65	0.030	0.76	0.45	11.43	205	305	266	395
14511.715105	19W	1/0	0.35	8.94	0.055	1.40	0.48	12.19	0.045	1.14	0.58	14.73	326	485	424	630
14511.715205	19W	2/0	0.40	10.03	0.055	1.40	0.53	13.46	0.045	1.14	0.62	15.75	411	612	502	747
14511.715405	19W	4/0	0.50	12.65	0.055	1.40	0.63	16.00	0.045	1.14	0.72	18.29	653	972	767	1141
14511.716005	37W	250	0.56	14.17	0.065	1.65	0.69	17.55	0.065	1.65	0.83	21.08	772	1149	939	1397
14511.716205	37W	350	0.66	16.79	0.065	1.65	0.80	20.32	0.065	1.65	0.93	23.62	1081	1609	1234	1837
14511.716505	37W	500	0.79	20.04	0.065	1.65	0.92	23.37	0.065	1.65	1.05	26.67	1544	2298	1718	2556
14511.717005	61W	750	0.97	24.59	0.080	2.03	1.12	28.45	0.065	1.65	1.26	32.00	2316	3447	2592	3857
14511.717505	61W	1000	1.12	28.37	0.080	2.03	1.27	32.26	0.065	1.65	1.41	35.81	3088	4595	3298	4907

Dimensions and weights are nominal; subject to industry tolerances.

* Sizes 14-10 AWG are UL listed to 600 V only.



Diesel Locomotive Cable 2000 Volts (EPR/XL-CPE)

UL RHH/RHW-2 2000 V and CSA RW90 2000V

Flexible, Oil-, Sunlight- and Ozone-Resistant, Flame-Retardant, -40°C to 90°C

Product Construction:

Conductor:

- 14 AWG (2.08 mm) thru 777.7 kcmil (394 mm²)
- 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)
- 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



Applications (cont'd):

- 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

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 # E523838
- CSA Type RW90 per CSA C.22.2-38
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- "For CT Use" on 1/0 AWG and larger in accordance with NEC®
- TC-ER" 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

CATALOG NUMBER	COND. SIZE		COND. STRAND	NOMINAL COND. O.D.		NOM. INS. THICKNESS		JACKET THICKNESS		NOMINAL O.D.		APPROX. NET WEIGHT	
	AWG/ kcmil	mm²		INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km
14 AWG - 777.7 kcmil CONDUCTORS													
5310.01014	14	2.08	19W	0.070	1.8	0.045	1.1	0.015	0.4	0.20	5.1	30	45
5310.01012	12	3.31	19W	0.088	2.2	0.045	1.1	0.015	0.4	0.22	5.6	39	58
5310.01010	10	5.26	27W	0.117	3.0	0.045	1.1	0.015	0.4	0.25	6.4	56	83
5310.01008	8	8.36	37W	0.144	3.7	0.055	1.4	0.030	0.8	0.33	8.4	87	129
5310.01006	6	13.3	61W	0.175	4.4	0.055	1.4	0.030	0.8	0.37	9.4	131	195
5310.01004	4	21.1	105W	0.255	6.5	0.055	1.4	0.030	0.8	0.44	11.2	194	289
5310.01002	2	33.6	158W	0.313	8.0	0.055	1.4	0.030	0.8	0.50	12.7	281	418
5310.01001	1	42.4	224W	0.375	9.5	0.065	1.7	0.045	1.1	0.61	15.5	410	610
5310.01110	1/0	53.5	280W	0.435	11.0	0.065	1.7	0.045	1.1	0.67	17.0	486	723
5310.01210	2/0	67.4	329W	0.440	11.2	0.065	1.7	0.045	1.1	0.70	17.8	530	789
5310.01310	3/0	85	456W	0.535	13.6	0.065	1.7	0.045	1.1	0.77	19.6	708	1054
5310.01410	4/0	107	551W	0.559	14.2	0.065	1.7	0.045	1.1	0.80	20.3	828	1232
5310.01262	262.6	133	650W	0.623	15.8	0.075	1.9	0.065	1.7	0.92	23.4	1004	1494
5310.01313	313.1	158	777W	0.671	17.0	0.075	1.9	0.065	1.7	0.97	24.6	1179	1755
5310.01373	373.7	189	925W	0.735	18.7	0.075	1.9	0.065	1.7	1.04	26.4	1368	2036
5310.01444	444.4	225	1110W	0.786	20.0	0.075	1.9	0.065	1.7	1.09	27.7	1591	2368
5310.01535	535.3	271	1332W	0.871	22.1	0.090	2.3	0.065	1.7	1.20	30.5	1925	2865
5310.01646	646.4	327	1609W	0.965	24.5	0.090	2.3	0.065	1.7	1.29	32.8	2307	3433
5310.01777	777.7	394	1924W	1.050	26.7	0.090	2.3	0.065	1.7	1.38	35.1	2728	4060

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



Looking for 600V Single Conductor Building Wire?



Learn more about these and aluminum copper building wire solutions from Encore Wire:



600V THHN / MTW / THWN-2 / T-90

Copper or Aluminum wire with SuperSlick Elite® nylon outer jacket for easy pulling, available in copper 14 AWG through 1000 kcmil and aluminum 8 AWG through 1000 kcmil



600V/1000V XHHW-2 / RW90

Copper or Aluminum wire with SuperSlick Elite® for easy pulling, available in copper 14 AWG through 1000 kcmil and aluminum 8 AWG through 1000 kcmil



600V USE-2 / RHH / RHW-2

Suitable for wet, damp, and dry locations; permitted for direct burial. Available in copper 12 AWG through 1000 kcmil and aluminum 8 AWG through 1000 kcmil



2.4 kV — 35 kV Industrial Medium-Voltage Cables

SPECIFICATION NUMBER	PRODUCT DESCRIPTION		REVISION DATE	PAGE NUMBER
6050† DuraSheath®	EPR/XL-CPE, Medium-Voltage Power, Nonshielded 2400 V UL Type MV-90		Feb 2025	38
6155† Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils		Feb 2025	39
6160 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils		Feb 2025	40
6161 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils		Feb 2025	41
6175† Uniblend® CPE	EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils		Feb 2025	42
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	 	Feb 2025	43
6255† Uniblend® PVC	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		Feb 2025	44
6275 Uniblend® CPE	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		Feb 2025	45
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	 	Feb 2025	46
6355† Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV UL Type MV-105, 133% Ins. Level, 220 Mils		Feb 2025	47
6360† Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV UL Type MV-105, 133% Ins. Level, 220 Mils		Feb 2025	48
6361 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 15 kV UL Type MV-105, 133% Ins. Levels, 220 Mils		Feb 2025	49
6375† Uniblend® CPE	EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 15 kV UL Type MV-105, 133% Ins. Level, 220 Mils		Feb 2025	50
6380 GenFree® Uniblend®	EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded 15 kV UL Type MV-105/ST1, 133% Ins. Level, 220 Mils	 	Feb 2025	51
6455† Uniblend® PVC	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		Feb 2025	52
6475 Uniblend® CPE	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		Feb 2025	53

2.4 kV — 35 kV Industrial Medium-Voltage Cables

SPECIFICATION NUMBER	PRODUCT DESCRIPTION		REVISION DATE	PAGE NUMBER
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	 	Feb 2025	54
6555† Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils		Feb 2025	55
6560 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 5 kV and 8 kV UL Type MV-105, 133%/100% Ins. Levels, 115 Mils		Feb 2025	56
6561 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 25 kV and 35 kV UL Type MV-105, 133%/100% Ins. Levels, 345 Mils		Feb 2025	57
6562 Aluminum Uniblend® PVC	TRXLPE/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 25 kV and 35 kV UL Type MV-105, 133%/100% Ins. Levels, 345 Mils		Feb 2025	58
6575† Uniblend® CPE	EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded 25 kV and 35 kV UL Type MV-105, 133%/100% Ins. Levels, 345 Mils		Feb 2025	59
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	 	Feb 2025	60
6605 Uniblend® PVC	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		Feb 2025	61
6655† Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV UL Type MV-105, 133% Ins. Levels, 420 Mils		Feb 2025	62
6660 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV UL Type MV-105, 133% Ins. Levels, 420 Mils		Feb 2025	63
6661 Aluminum Uniblend® PVC	EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded 35 kV UL Type MV-105, 133% Ins. Levels, 420 Mils		Feb 2025	64

†Indicates these products are stocked by Prysmian Group

DuraSheath®

EPR/XL-CPE, Medium-Voltage Power, Nonshielded 2400 V
UL Type MV-902400 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:

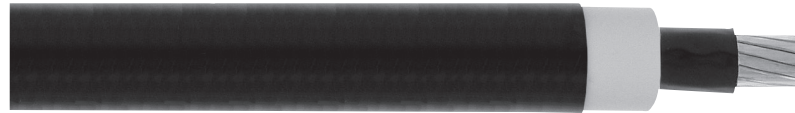
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black jacket material

Jacket:

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

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



Applications (cont'd):

- 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, moisture and sunlight 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
- Easy Glider® low friction technology for easy cable pulling
- Meets cold bend test at -35°C

Features (cont'd):

- 90°C rating for continuous operation
- 130°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

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 # E518856
- 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		AMPACITY		
												LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)
		IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN
2400 V, UL TYPE MV-90																		
14901.410805*	8	0.13	3.30	0.16	4.06	0.125	3.18	0.42	10.67	0.59	14.99	51	76	199	296	55	64	–
14901.410605	6	0.17	4.32	0.19	4.83	0.125	3.18	0.45	11.43	0.62	15.75	81	121	243	362	75	85	–
14901.410405	4	0.21	5.33	0.24	6.10	0.125	3.18	0.50	12.70	0.67	17.02	129	192	303	451	97	110	–
14901.410205	2	0.27	6.86	0.29	7.37	0.125	3.18	0.55	13.97	0.72	18.29	205	305	400	595	130	145	–
14901.410105*	1	0.30	7.62	0.32	8.13	0.125	3.18	0.59	14.99	0.76	19.30	259	385	471	701	155	170	–
14901.415105	1/0	0.34	8.64	0.36	9.14	0.125	3.18	0.62	15.75	0.79	20.07	326	485	543	808	180	195	195
14901.415205	2/0	0.38	9.65	0.40	10.16	0.125	3.18	0.66	16.76	0.83	21.08	411	612	645	960	205	220	225
14901.415305*	3/0	0.42	10.67	0.45	11.43	0.125	3.18	0.71	18.03	0.92	23.37	518	771	802	1194	240	250	259
14901.415405	4/0	0.48	12.19	0.50	12.70	0.125	3.18	0.76	19.30	0.96	24.38	653	972	948	1411	280	290	300
14901.416005	250	0.52	13.21	0.54	13.72	0.14	3.56	0.83	21.08	1.07	27.18	772	1149	1153	1716	315	320	334
14901.416205	350	0.62	15.75	0.63	16.00	0.14	3.56	0.93	23.62	1.16	29.46	1080	1607	1485	2210	385	385	413
14901.416505	500	0.74	18.80	0.76	19.30	0.14	3.56	1.05	26.67	1.28	32.51	1544	2298	2000	2976	475	470	521
14901.417005	750	0.91	23.11	0.93	23.62	0.155	3.94	1.25	31.75	1.52	38.61	2316	3447	2920	4345	600	585	675
14901.417505*	1000	1.06	26.92	1.07	27.18	0.155	3.94	1.40	35.56	1.66	42.16	3086	4593	3815	5677	690	670	806

Dimensions and weights are nominal; subject to industry tolerances.

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

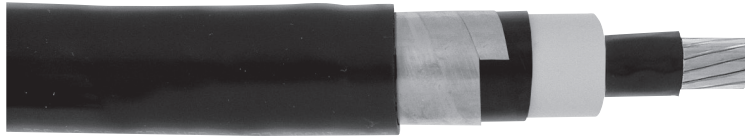
(1) Ampacities are in accordance with Table 315.60(C)(7) of the 2023 NEC for triplexed or three single conductor copper cables in isolated conduit in air based on a conductor temperature of 90°C (194°F), and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 315.60(C)(11) of the 2023 NEC for triplexed or three single conductor copper cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F), and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 315.60(D)(3) 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 installed with no spacing between cables in an uncovered tray in accordance with Section 392.80(B)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 315.60(C)(3), operating temperature of 90°C (194°F).

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.

Uniblend® PVCEPR/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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight 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

Features (cont'd):

- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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
- RoHS Compliant

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)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
							INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km	90°C	

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	0.66	16.76	301	447	124	185	83	93	90	97	-	-	2
17001.120405	4	0.21	0.455	0.535	0.060	1.52	0.71	18.03	372	553	176	262	110	120	115	125	-	-	2
17001.120205	2	0.27	0.510	0.590	0.060	1.52	0.76	19.30	475	706	257	382	150	165	155	165	-	-	2.5
17001.120105	1	0.30	0.545	0.620	0.060	1.52	0.79	20.07	540	804	313	465	170	190	175	185	-	-	2.5
17001.125105	1/0	0.34	0.580	0.655	0.060	1.52	0.83	21.08	626	932	383	570	195	215	200	215	195	220	2.5
17001.125205	2/0	0.38	0.620	0.695	0.060	1.52	0.87	22.10	726	1081	472	702	225	255	230	245	225	250	2.5
17001.125305	3/0	0.42	0.665	0.745	0.080	2.03	0.95	24.13	883	1315	583	868	260	290	260	275	260	290	3
17001.135405	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.40	1051	1563	723	1075	295	330	295	315	300	335	3
17001.136005	250	0.52	0.770	0.850	0.080	2.03	1.06	26.92	1188	1769	846	1259	330	365	325	345	335	370	3
17001.136205	350	0.62	0.870	0.945	0.080	2.03	1.15	29.21	1528	2273	1163	1731	395	440	390	415	415	460	3.5
17001.136505	500	0.74	0.990	1.065	0.080	2.03	1.26	32.00	2029	3020	1635	2433	480	535	465	500	515	575	3.5
17001.137005	750	0.91	1.170	1.250	0.080	2.03	1.43	36.32	2860	4256	2424	3607	585	655	565	610	665	745	4
17001.637505	1000	1.06	1.320	1.400	0.080	2.03	1.61	40.89	3778	5622	3209	4776	675	755	640	690	795	890	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 cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(69).

(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 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.



Aluminum Uniblend® PVC

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 1350 aluminum compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

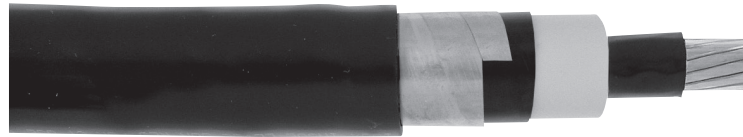
- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

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



Applications (cont'd):

- 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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight 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
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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
- RoHS Compliant

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				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY						CONDUIT SIZING (4) (INCHES)
							DIAMETER		WEIGHT						CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/km	90°C	105°C	90°C	105°C	90°C	105°C	
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	0.67	17.02	248	369	25	37	43	64	65	72	70	75	-	-	2
17001.120408	4	0.21	0.455	0.535	0.060	1.52	0.72	18.29	286	425	39	58	47	70	84	94	91	98	-	-	2
17001.120208	2	0.27	0.510	0.590	0.060	1.52	0.76	19.30	332	493	62	93	52	77	115	130	120	130	-	-	2.5
17001.120108	1	0.30	0.545	0.620	0.060	1.52	0.80	20.32	369	549	78	117	54	81	130	150	135	145	-	-	2.5
17001.125108	1/0	0.34	0.580	0.655	0.060	1.52	0.83	21.08	396	590	99	147	58	86	150	170	155	165	150	170	2.5
17001.125208	2/0	0.38	0.620	0.695	0.060	1.52	0.87	22.10	444	660	125	186	61	91	175	200	175	190	176	195	2.5
17001.125308	3/0	0.42	0.665	0.745	0.080	2.03	0.93	23.62	419	623	158	235	65	97	200	225	200	215	203	225	3
17001.135408	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.40	602	896	199	296	69	103	230	260	230	245	233	263	3
17001.136008	250	0.52	0.770	0.850	0.080	2.03	1.06	26.92	666	991	234	349	74	110	255	290	250	270	259	289	3
17001.136208	350	0.62	0.870	0.945	0.080	2.03	1.15	29.21	812	1209	329	490	82	122	310	350	305	330	323	360	3.5
17001.136508	500	0.74	0.990	1.065	0.080	2.03	1.27	32.26	1018	1515	468	697	93	138	385	430	370	400	401	450	3.5
17001.137008	750	0.91	1.170	1.250	0.080	2.03	1.45	36.83	1355	2016	703	1046	108	161	485	540	455	490	525	585	4
17001.137508	1000	1.06	1.320	1.400	0.080	2.03	1.61	40.89	1674	2491	937	1394	121	180	565	640	525	565	630	705	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(70).

(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 should be checked for individual installations.

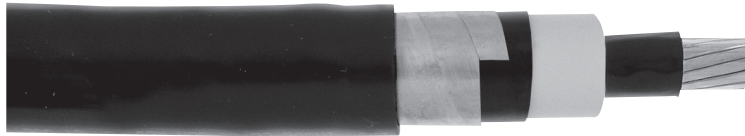
Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Aluminum Uniblend® PVC

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 1350 aluminum compressed Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture and sunlight-resistant Polyvinyl Chloride (PVC)

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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress

Features (cont'd):

- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- 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
- RoHS Compliant

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				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY						CONDUIT SIZING (4) (INCHES)
								DIAMETER		WEIGHT						CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90 °C	105 °C	90 °C	105 °C	90 °C	105 °C		
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS																						
17001.120609	6	0.18	0.415	0.490	0.060	1.52	0.67	17.04	256	380	25	37	44	66	65	72	70	75	-	-	2	
17001.120409	4	0.23	0.455	0.535	0.060	1.52	0.72	18.24	294	438	40	59	48	72	84	94	91	98	-	-	2	
17001.120209	2	0.28	0.510	0.590	0.060	1.52	0.78	19.71	341	508	63	94	53	79	115	130	120	130	-	-	2.5	
17001.120109	1	0.32	0.545	0.620	0.060	1.52	0.82	20.70	380	565	80	119	56	83	130	150	135	145	-	-	2.5	
17001.125109	1/0	0.36	0.580	0.655	0.060	1.52	0.86	21.72	408	607	101	150	59	88	150	170	155	165	150	170	2.5	
17001.125209	2/0	0.41	0.620	0.695	0.060	1.52	0.90	22.81	457	680	128	190	63	93	175	200	175	190	176	195	2.5	
17001.125309	3/0	0.46	0.665	0.745	0.080	2.03	0.99	25.12	431	642	161	240	67	100	200	225	200	215	203	225	3	
17001.135409	4/0	0.51	0.720	0.795	0.080	2.03	1.05	26.54	620	923	203	302	72	106	230	260	230	245	233	263	3	
17001.136009	250	0.56	0.770	0.850	0.080	2.03	1.10	27.97	686	1021	239	356	76	113	255	290	250	270	259	289	3.5	
17001.136209	350	0.66	0.870	0.945	0.080	2.03	1.20	30.58	836	1245	336	499	85	126	310	350	305	330	323	360	3.5	
17001.136509	500	0.79	0.990	1.065	0.080	2.03	1.34	34.04	1049	1560	478	711	95	142	385	430	370	400	401	450	4	
17001.137009	750	0.97	1.170	1.250	0.080	2.03	1.52	38.58	1396	2077	717	1067	111	166	485	540	455	490	525	585	5	
17001.137509	1000	1.12	1.320	1.400	0.080	2.03	1.67	42.37	1724	2566	956	1422	125	186	565	640	525	565	630	705	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(70).

(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 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.



Uniblend® CPE

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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

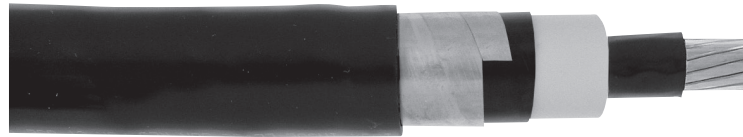
- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

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



Applications (cont'd):

- 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, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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
- RoHS Compliant

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)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
											IN	mm							
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS																			
17101.120605	6	0.17	0.415	0.490	0.060	1.52	0.66	16.76	297	442	124	185	83	93	90	97	-	-	2
17101.120405	4	0.21	0.455	0.535	0.060	1.52	0.71	18.03	368	547	176	262	110	120	115	125	-	-	2
17101.120205	2	0.27	0.510	0.590	0.060	1.52	0.76	19.30	471	700	257	382	150	165	155	165	-	-	2.5
17101.120105	1	0.30	0.545	0.620	0.060	1.52	0.79	20.07	539	802	313	465	170	190	175	185	-	-	2.5
17101.125105	1/0	0.34	0.580	0.655	0.060	1.52	0.83	21.08	622	925	383	570	195	215	200	215	195	220	2.5
17101.125205	2/0	0.38	0.620	0.695	0.060	1.52	0.87	22.10	722	1074	472	702	225	255	230	245	225	250	2.5
17101.125305	3/0	0.42	0.665	0.745	0.080	2.03	0.95	24.13	877	1306	583	868	260	290	260	275	260	290	3
17101.135405	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.40	1044	1554	723	1075	295	330	295	315	300	335	3
17101.136005	250	0.52	0.770	0.850	0.080	2.03	1.06	26.92	1182	1759	846	1259	330	365	325	345	335	370	3
17101.136205	350	0.62	0.870	0.945	0.080	2.03	1.15	29.21	1513	2251	1163	1731	395	440	390	415	415	460	3.5
17101.136505	500	0.74	0.990	1.065	0.080	2.03	1.26	32.00	2026	3016	1635	2433	480	535	465	500	515	575	3.5
17101.137005	750	0.91	1.170	1.250	0.080	2.03	1.43	36.32	2851	4243	2424	3607	585	655	565	610	665	745	4
17101.137505	1000	1.06	1.320	1.400	0.080	2.03	1.61	40.89	3764	5601	3209	4776	675	755	640	690	795	890	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 cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(69).

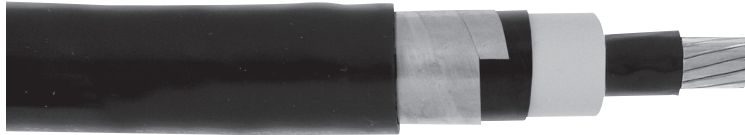
(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered but should be checked for individual installations.

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.

GenFree® Uniblend®EPR/Copper Tape Shield/LSZH, Medium-Voltage Power,
Shielded 5 kV and 8 kV

UL Type MV-105/STI, 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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Overall Jacket:

- Lead-free, moisture- and sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

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, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Easy Glider® low friction technology for easy cable pulling
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss

**Features (cont'd):**

- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8-13 (AEIC CS8-20, Optional)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- UL 1685 Vertical Flame and STI 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
- RoHS Compliant

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)
							DIAMETER		WEIGHT			CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90 °C	105 °C	90 °C	105 °C	90 °C	

5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS

17201.120605	6	0.17	0.415	0.490	0.060	1.52	0.66	16.76	306	455	124	185	83	93	90	97	-	-	2
17201.120405	4	0.21	0.455	0.535	0.060	1.52	0.71	18.03	377	561	176	262	110	120	115	125	-	-	2
17201.120205	2	0.27	0.510	0.590	0.060	1.52	0.76	19.30	483	718	257	382	150	165	155	165	-	-	2.5
17201.120105	1	0.30	0.545	0.620	0.060	1.52	0.79	20.07	539	802	313	465	170	190	175	185	-	-	2.5
17201.125105	1/0	0.34	0.580	0.655	0.060	1.52	0.83	21.08	633	941	383	570	195	215	200	215	195	220	2.5
17201.125205	2/0	0.38	0.620	0.695	0.060	1.52	0.87	22.10	733	1091	472	702	225	255	230	245	225	250	2.5
17201.125305	3/0	0.42	0.665	0.745	0.080	2.03	0.94	23.88	886	1319	583	868	260	290	260	275	260	290	3
17201.135405	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.40	1060	1577	723	1075	295	330	295	315	300	335	3
17201.136005	250	0.52	0.770	0.850	0.080	2.03	1.06	26.92	1199	1784	846	1259	330	365	325	345	335	370	3
17201.136205	350	0.62	0.870	0.945	0.080	2.03	1.15	29.21	1531	2279	1163	1731	395	440	390	415	415	460	3.5
17201.136505	500	0.74	0.990	1.065	0.080	2.03	1.26	32.00	2047	3046	1635	2433	480	535	465	500	515	575	3.5
17201.137005	750	0.91	1.170	1.250	0.080	2.03	1.43	36.32	2874	4277	2424	3607	585	655	565	610	665	745	4
17201.637505	1000	1.06	1.320	1.400	0.080	2.03	1.61	40.89	3790	5640	3209	4776	675	755	640	690	795	890	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 315.60(C)(7) of the 2023 NEC for triplexed or three single conductor copper cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 315.60(C)(11) of the 2023 NEC for triplexed or three single conductor copper cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 315.60(D)(3) 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 installed with no spacing between cables in an uncovered tray in accordance with Section 392.80(B)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 315.60(C)(3), operating temperature denoted in column header.

(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 not been considered but 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.



Uniblend® PVC

EPR/Copper Tape Shield with Overall PVC Jacket, Medium-Voltage Power, Shielded, 5 kV and 8 kV



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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 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)

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



Applications (cont'd):

- 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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight 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
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AIEC CS8
- CSA C68.10

Compliances (cont'd):

- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- UL 1685 Vertical Flame and ST1 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
- RoHS Compliant

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		GROUND WIRE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY					
									DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)	
		INCHES	MIN.	MAX.	IN		mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C	

5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS

15493.400605	6	0.17	0.415	0.490	6	0.080	2.03	1.32	33.53	1009	1502	454	676	83	92	88	95	93	105
15493.400405	4	0.21	0.455	0.535	6	0.080	2.03	1.41	35.81	1245	1852	611	909	105	120	115	125	120	135
15493.400205	2	0.27	0.510	0.590	6	0.080	2.03	1.53	38.86	1565	2330	853	1270	145	165	150	160	165	185
15493.405105	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2091	3112	1283	1909	195	215	195	210	215	240
15493.405205	2/0	0.38	0.620	0.695	4	0.080	2.03	1.76	44.70	2392	3559	1549	2305	220	245	220	235	245	275
15493.405405	4/0	0.48	0.720	0.795	3	0.110	2.79	2.06	52.32	3517	5233	2338	3479	290	320	285	305	325	360
15493.406005	250	0.52	0.770	0.850	2	0.110	2.79	2.18	55.37	3990	5938	2751	4094	315	350	310	335	360	400
15493.406205	350	0.62	0.870	0.945	2	0.110	2.79	2.38	60.45	5052	7519	3706	5515	385	430	375	400	435	490
15493.406505	500	0.74	0.990	1.065	1	0.110	2.79	2.63	66.80	6684	9947	5178	7705	470	525	450	485	535	600
15493.407005	750	0.91	1.170	1.250	1/0	0.140	3.56	3.05	77.47	9499	14136	7621	11341	570	635	545	585	670	745
15493.407505	1000	1.06	1.320	1.400	2/0	0.140	3.56	3.48	88.39	12601	18752	10070	14986	650	725	615	660	770	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Uniblend® CPEEPR/Copper Tape Shield with Overall CPE Jacket, Medium-Voltage Power, Shielded
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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 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)

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

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, moisture and sunlight resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Features (cont'd.):

- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable
- RoHS Compliant

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4

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 and plexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY					
									DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)	
		INCHES	MIN.	MAX.	IN		mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90 °C	105 °C	90 °C	105 °C	90 °C	105 °C	
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS																				
15593.400605	6	0.17	0.415	0.490	6	0.080	2.03	1.32	33.53	1001	1489	454	676	83	92	88	95	93	105	
15593.400405	4	0.21	0.455	0.535	6	0.080	2.03	1.41	35.81	1236	1839	611	909	105	120	115	125	120	135	
15593.400205	2	0.27	0.510	0.590	6	0.080	2.03	1.53	38.86	1555	2315	853	1270	145	165	150	160	165	185	
15593.405105	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2080	3096	1283	1909	195	215	195	210	215	240	
15593.405205	2/0	0.38	0.620	0.695	4	0.080	2.03	1.76	44.70	2380	3542	1549	2305	220	245	220	235	245	275	
15593.405405	4/0	0.48	0.720	0.795	3	0.110	2.79	2.06	52.32	3497	5204	2338	3479	290	320	285	305	325	360	
15593.406005	250	0.52	0.770	0.850	2	0.110	2.79	2.18	55.37	3968	5905	2751	4094	315	350	310	335	360	400	
15593.406205	350	0.62	0.870	0.945	2	0.110	2.79	2.38	60.45	5007	7451	3706	5515	385	430	375	400	435	490	
15593.406505	500	0.74	0.990	1.065	1	0.110	2.79	2.63	66.80	6675	9933	5178	7705	470	525	450	485	535	600	
15593.407005	750	0.91	1.170	1.250	1/0	0.140	3.56	3.05	77.47	9448	14060	7621	11341	570	635	545	585	670	745	
15593.407505	1000	1.06	1.320	1.400	2/0	0.140	3.56	3.48	88.39	12601	18752	10070	14986	650	725	615	660	770	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

Note: a) All sizes are "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 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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 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)

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610



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, moisture and sunlight resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8-13 (AEIC CS8-20, Optional)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable
- RoHS Compliant

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4

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 JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY					
									DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)	
		INCHES	MIN.	MAX.	INCHES		mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C	
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS																				
15693.400605	6	0.17	0.415	0.490	6	0.080	2.03	1.32	33.53	939	1397	454	676	83	92	88	95	93	105	
15693.400405	4	0.21	0.455	0.535	6	0.080	2.03	1.41	35.81	1158	1723	611	909	105	120	115	125	120	135	
15693.400205	2	0.27	0.510	0.590	6	0.080	2.03	1.53	38.86	1511	2249	853	1270	145	165	150	160	165	185	
15693.405105	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2108	3137	1283	1909	195	215	195	210	215	240	
15693.405205	2/0	0.38	0.620	0.695	4	0.080	2.03	1.76	44.70	2449	3645	1549	2305	220	245	220	235	245	275	
15693.405405	4/0	0.48	0.720	0.795	3	0.110	2.79	2.06	52.32	3438	5116	2338	3479	290	320	285	305	325	360	
15693.406005	250	0.52	0.770	0.850	2	0.110	2.79	2.18	55.37	3968	5905	2751	4094	315	350	310	335	360	400	
15693.406205	350	0.62	0.870	0.945	2	0.110	2.79	2.38	60.45	5009	7454	3706	5515	385	430	375	400	435	490	
15693.406505	500	0.74	0.990	1.065	1	0.110	2.79	2.63	66.80	6719	9999	5178	7705	470	525	450	485	535	600	
15693.407005	750	0.91	1.170	1.250	1/0	0.140	3.56	3.05	77.47	9833	14633	7621	11341	570	635	545	585	670	745	
15693.407505	1000	1.06	1.320	1.400	2/0	0.140	3.56	3.48	88.39	12601	18752	10070	14986	650	725	615	660	770	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient air temperature of 40°C (104°F).

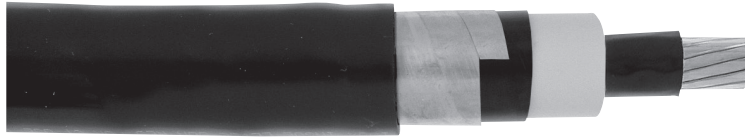
(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Uniblend® PVCEPR/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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress

Features (cont'd):

- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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
- RoHS Compliant

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)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C	
15 kV, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																			
17031.130205	2	0.27	0.710	0.800	0.080	2.03	1.00	25.40	663	986	275	409	150	165	155	165	-	-	3
17031.130105	1	0.30	0.745	0.830	0.080	2.03	1.03	26.16	736	1096	331	492	170	190	175	185	-	-	3
17031.135105	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	826	1230	401	597	195	215	200	215	195	220	3
17031.135205	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	934	1390	490	729	225	255	230	245	225	250	3.5
17031.135305	3/0	0.42	0.865	0.955	0.080	2.03	1.15	29.21	1072	1595	601	895	260	290	260	275	260	290	3.5
17031.135405	4/0	0.48	0.920	1.005	0.080	2.03	1.20	30.48	1247	1855	741	1102	295	330	295	315	300	335	3.5
17031.136005	250	0.52	0.970	1.060	0.080	2.03	1.26	32.00	1394	2075	864	1286	330	365	325	345	335	370	3.5
17031.136205	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1748	2601	1181	1758	395	440	390	415	415	460	4
17031.136505	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2267	3374	1653	2459	480	535	465	500	515	575	5
17031.137005	750	0.91	1.370	1.460	0.080	2.03	1.64	41.66	3125	4650	2442	3634	585	655	565	610	665	745	5
17031.137505	1000	1.06	1.520	1.610	0.110	2.79	1.90	48.26	4231	6296	3227	4803	675	755	640	690	795	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 cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(69).

(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 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®

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 strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

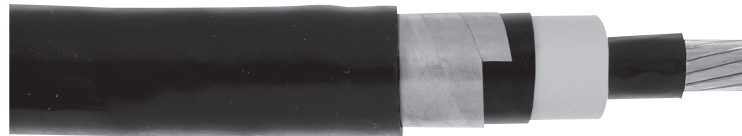
- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

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



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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight 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
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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
- RoHS Compliant

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				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY								CONDUIT SIZING (4) (INCHES)
								DIAMETER		WEIGHT						CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)				
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C				
15 kV ⁴ , UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																								
17031.130208	2	0.27	0.710	0.800	0.080	2.03	1.00	25.40	518	771	62	92	71	106	115	130	120	130	135	145	-	-	3	
17031.130108	1	0.30	0.745	0.830	0.080	2.03	1.01	25.65	488	725	78	116	74	110	130	150	135	145	-	-	-	-	3	
17031.135108	1/0	0.34	0.780	0.865	0.080	2.03	1.07	27.18	600	893	99	147	77	115	150	170	155	165	150	170	195	170	3	
17031.135208	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	649	966	125	186	81	121	175	200	175	190	175	195	225	200	3.5	
17031.135308	3/0	0.42	0.865	0.955	0.080	2.03	1.13	28.70	600	892	158	235	85	126	200	225	200	215	205	225	265	235	3.5	
17031.135408	4/0	0.48	0.920	1.005	0.080	2.03	1.20	30.48	797	1187	199	296	90	134	230	260	230	245	235	265	305	275	3.5	
17031.136008	250	0.52	0.970	1.060	0.080	2.03	1.26	32.00	1181	1758	234	348	94	140	255	290	250	270	260	290	330	300	3.5	
17031.136208	350	0.62	1.070	1.155	0.080	2.03	1.36	34.54	1032	1536	329	490	103	153	310	350	305	330	325	360	400	370	4	
17031.136508	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	1355	2016	468	696	113	168	385	430	370	400	400	450	500	450	5	
17031.137008	750	0.91	1.370	1.460	0.080	2.03	1.66	42.16	1620	2410	703	1046	129	192	485	540	455	490	515	585	660	585	5	
17031.137508	1000	1.06	1.520	1.610	0.110	2.79	1.90	48.26	2121	3157	937	1394	140	208	565	640	525	565	620	705	795	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 315.60(C)(8) of the 2023 NEC for triplexed or three single conductor copper cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 315.60(C)(12) of the 2023 NEC for triplexed or three single conductor copper cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 315.60(D)(3) 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 installed with no spacing between cables in an uncovered tray in accordance with Section 392.80(B)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 315.60(C)(4), operating temperature denoted in column header.

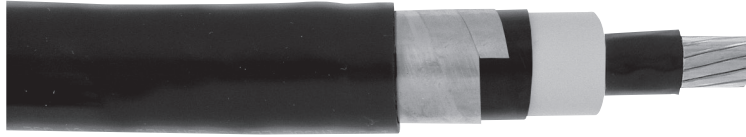
(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has not been considered but should be checked for individual installations. 100% insulation level is available upon request.

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® PVC

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded
15 kV, UL Type MV-105, 133% Ins. Levels, 220 Mils



Product Construction:

Conductor:

- 2 AWG thru 1000 kcmil 1350 aluminum compressed Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

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
- High Speed low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight 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

Features (cont'd):

- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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
- RoHS Compliant

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				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY				CONDUIT SIZING (4) (INCHES)		
							DIAMETER		WEIGHT						CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)			TRAY (3)	
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/km	90°C	105°C	90°C	105°C		90°C	105°C
15 kV¥, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																					
17031.130209	2	0.28	0.710	0.800	0.080	2.03	1.02	25.91	534	794	63	94	73	109	115	130	120	130	-	-	3
17031.130109	1	0.32	0.745	0.830	0.080	2.03	1.06	26.90	502	747	80	118	76	113	130	150	135	145	-	-	3
17031.135109	1/0	0.36	0.780	0.865	0.080	2.03	1.10	27.91	618	919	101	150	79	118	150	170	155	165	150	170	3.5
17031.135209	2/0	0.41	0.820	0.905	0.080	2.03	1.14	29.01	669	995	128	190	83	124	175	200	175	190	175	195	3.5
17031.135309	3/0	0.46	0.865	0.955	0.080	2.03	1.19	30.30	617	919	161	240	88	130	200	225	200	215	205	225	3.5
17031.135409	4/0	0.51	0.920	1.005	0.080	2.03	1.25	31.72	821	1222	203	302	93	138	230	260	230	245	235	265	3.5
17031.136009	250	0.56	0.970	1.060	0.080	2.03	1.31	33.15	1217	1811	239	355	97	144	255	290	250	270	260	290	4
17031.136209	350	0.66	1.070	1.155	0.080	2.03	1.41	35.76	1063	1582	336	499	106	158	310	350	305	330	325	360	4
17031.136509	500	0.79	1.190	1.275	0.080	2.03	1.54	39.22	1395	2076	477	710	116	173	385	430	370	400	400	450	5
17031.137009	750	0.97	1.370	1.460	0.080	2.03	1.72	43.76	1668	2483	717	1067	133	198	485	540	455	490	515	585	5
17031.137509	1000	1.12	1.520	1.610	0.110	2.79	1.93	49.07	2185	3252	956	1422	144	215	565	640	525	565	620	705	6
17001.137008	750	0.91	1.170	1.250	0.080	2.03	1.45	36.83	1355	2016	703	1046	108	161	485	540	455	490	525	585	4
17001.137508	1000	1.06	1.320	1.400	0.080	2.03	1.61	40.89	1674	2491	937	1394	121	180	565	640	525	565	630	705	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 315.60(C)(8) of the 2023 NEC for triplexed or three single conductor copper cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 315.60(C)(12) of the 2023 NEC for triplexed or three single conductor copper cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 315.60(D)(3) 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 installed with no spacing between cables in an uncovered tray in accordance with Section 392.80(B)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 315.60(C)(4), operating temperature denoted in column header.

(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 not been considered but 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.



Uniblend® CPE

EPR/Copper Tape Shield/CPE, 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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

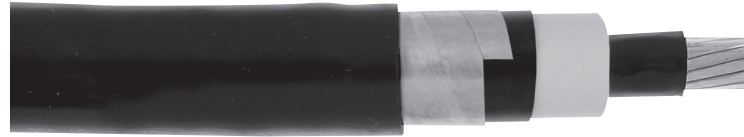
- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

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



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
- Excellent heat, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Meets cold bend test at -35°C
- Chemical-resistant
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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
- RoHS Compliant

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)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C	
15 kV [¥] , UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																			
17131.130205	2	0.27	0.710	0.800	0.080	2.03	1.00	25.40	656	977	275	409	150	165	155	165	-	-	3
17131.130105	1	0.30	0.745	0.830	0.080	2.03	1.03	26.16	730	1086	331	492	170	190	175	185	-	-	3
17131.135105	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	819	1219	401	597	195	215	200	215	195	220	3
17131.135205	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	927	1379	490	729	225	255	230	245	225	250	3.5
17131.135305	3/0	0.42	0.865	0.955	0.080	2.03	1.15	29.21	1064	1584	601	895	260	290	260	275	260	290	3.5
17131.135405	4/0	0.48	0.920	1.005	0.080	2.03	1.20	30.48	1239	1844	741	1102	295	330	295	315	300	335	3.5
17131.136005	250	0.52	0.970	1.060	0.080	2.03	1.26	32.00	1386	2062	864	1286	330	365	325	345	335	370	3.5
17131.136205	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1731	2576	1181	1758	395	440	390	415	415	460	4
17131.136505	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2263	3368	1653	2459	480	535	465	500	515	575	5
17131.137005	750	0.91	1.370	1.460	0.080	2.03	1.64	41.66	3114	4634	2442	3634	585	655	565	610	665	745	5
17131.637505	1000	1.06	1.520	1.610	0.110	2.79	1.90	48.26	4208	6263	3227	4803	675	755	640	690	795	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 315.60(C)(7) of the 2023 NEC for triplexed or three single conductor copper cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 315.60(C)(1) of the 2023 NEC for triplexed or three single conductor copper cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 315.60(D)(3) 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 installed with no spacing between cables in an uncovered tray in accordance with Section 392.80(B)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 315.60(C)(3), operating temperature denoted in column header.

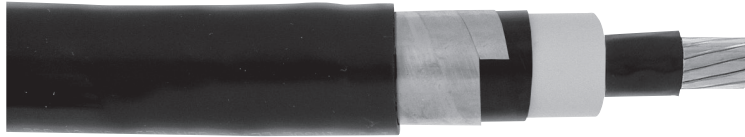
(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has not been considered but should be checked for individual installations.

¥ 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/STI, 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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Overall Jacket:

- Lead-free, moisture- and sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

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, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress

Features (cont'd):

- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AIEC CS8-13 (AIEC CS8-20, Optional)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- UL 1685 Vertical Flame and STI 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
- RoHS Compliant

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)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C	
15 kV¥, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																			
17231.130205	2	0.27	0.710	0.800	0.080	2.03	1.00	25.40	672	1000	275	409	150	165	155	165	-	-	3
17231.130105	1	0.30	0.745	0.830	0.080	2.03	1.03	26.16	733	1091	331	492	170	190	175	185	-	-	3
17231.135105	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	836	1245	401	597	195	215	200	215	195	220	3
17231.135205	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	944	1405	490	729	225	255	230	245	225	250	3.5
17231.135305	3/0	0.42	0.865	0.955	0.080	2.03	1.15	29.21	1078	1604	601	895	260	290	260	275	260	290	3.5
17231.135405	4/0	0.48	0.920	1.005	0.080	2.03	1.20	30.48	1259	1873	741	1102	295	330	295	315	300	335	3.5
17231.136005	250	0.52	0.970	1.060	0.080	2.03	1.26	32.00	1407	2094	864	1286	330	365	325	345	335	370	3.5
17231.136205	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1753	2609	1181	1758	395	440	390	415	415	460	4
17231.136505	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2287	3404	1653	2459	480	535	465	500	515	575	5
17231.137005	750	0.91	1.370	1.460	0.080	2.03	1.64	41.66	3141	4674	2442	3634	585	655	565	610	665	745	5
17231.137505	1000	1.06	1.520	1.610	0.110	2.79	1.90	48.26	4255	6331	3227	4803	675	755	640	690	795	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 cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(69).

(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 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.



Uniblend® PVC

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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 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)

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610



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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight 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
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4

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 JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY					
		INCHES	MIN.	MAX.		IN	mm	DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)	
								IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C
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	2.06	52.32	2269	3377	907	1350	145	165	150	160	165	185
15493.445105	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2827	4206	1337	1990	195	215	195	210	215	240
15493.445205	2/0	0.38	0.820	0.905	4	0.110	2.79	2.29	58.17	3177	4727	1604	2386	220	245	220	235	245	275
15493.445405	4/0	0.48	0.920	1.005	3	0.110	2.79	2.50	63.50	4194	6242	2392	3560	290	320	285	305	325	360
15493.446005	250	0.52	0.970	1.060	2	0.110	2.79	2.62	66.55	4716	7018	2805	4175	315	350	310	335	360	400
15493.446205	350	0.62	1.070	1.155	2	0.110	2.79	2.82	71.63	5821	8663	3760	5596	385	430	375	400	435	490
15493.446505	500	0.74	1.190	1.275	1	0.140	3.56	3.12	79.25	7640	11370	5232	7786	470	525	450	485	535	600
15493.447005	750	0.91	1.370	1.460	1/0	0.140	3.56	3.49	88.65	10421	15508	7675	11422	570	635	545	585	670	745
15493.447505	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.86	98.04	13481	20062	10123	15064	650	725	615	660	770	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 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), operating temperature denoted in column header. For cable trays 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® CPE

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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 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)

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

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, moisture and sunlight resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling

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
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable
- RoHS Compliant

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4

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 JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY					
		INCHES	MIN.	MAX.	IN		mm	DIAMETER		WEIGHT		CONDUIT IN AIR (1)			UNDERGROUND DUCT (2)		TRAY (3)			
								IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C	
15 kV¥, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR																				
15593.440205	2	0.27	0.710	0.800	6	0.110	2.79	2.06	52.32	2249	3347	907	1350	145	165	150	160	165	185	
15593.445105	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2811	4183	1337	1990	195	215	195	210	215	240	
15593.445205	2/0	0.38	0.820	0.905	4	0.110	2.79	2.29	58.17	3154	4694	1604	2386	220	245	220	235	245	275	
15593.445405	4/0	0.48	0.920	1.005	3	0.110	2.79	2.50	63.50	4167	6201	2392	3560	290	320	285	305	325	360	
15593.446005	250	0.52	0.970	1.060	2	0.110	2.79	2.62	66.55	4775	7106	2805	4175	315	350	310	335	360	400	
15593.446205	350	0.62	1.070	1.155	2	0.110	2.79	2.82	71.63	6182	9200	3760	5596	385	430	375	400	435	490	
15593.446505	500	0.74	1.190	1.275	1	0.140	3.56	3.12	79.25	7686	11438	5232	7786	470	525	450	485	535	600	
15593.447005	750	0.91	1.370	1.460	1/0	0.140	3.56	3.49	88.65	10978	16337	7675	11422	570	635	545	585	670	745	
15593.447505	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.86	98.04	13983	20809	10123	15064	650	725	615	660	770	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(71).

¥ 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.



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



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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 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)

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

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, moisture and sunlight resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable
- RoHS Compliant

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4

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 JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY					
		DIAMETER		WEIGHT		CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)											
												INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR																					
15793.440205	2	0.27	0.710	0.800	6	0.110	2.79	2.06	52.32	2226	3313	907	1350	145	165	150	160	165	185		
15793.445105	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2811	4183	1337	1990	195	215	195	210	215	240		
15793.445205	2/0	0.38	0.820	0.905	4	0.110	2.79	2.29	58.17	3163	4707	1604	2386	220	245	220	235	245	275		
15793.445405	4/0	0.48	0.920	1.005	3	0.110	2.79	2.50	63.50	4203	6255	2392	3560	290	320	285	305	325	360		
15793.446005	250	0.52	0.970	1.060	2	0.110	2.79	2.62	66.55	4775	7106	2805	4175	315	350	310	335	360	400		
15793.446205	350	0.62	1.070	1.155	2	0.110	2.79	2.82	71.63	6182	9200	3760	5596	385	430	375	400	435	490		
15793.446505	500	0.74	1.190	1.275	1	0.140	3.56	3.12	79.25	7686	11438	5232	7786	470	525	450	485	535	600		
15793.447005	750	0.91	1.370	1.460	1/0	0.140	3.56	3.49	88.65	10978	16337	7675	11422	570	635	545	585	670	745		
15793.447505	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.86	98.04	13983	20809	10123	15064	650	725	615	660	770	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

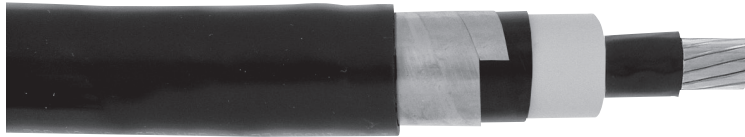
¥100% insulation level is available upon request.

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

Uniblend® PVC

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:**

- 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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- 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)

Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

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, moisture and sunlight resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption

Features (cont'd):

- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AIEC CS8 -13 (AIEC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable
- RoHS Compliant

Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4

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 (4) (INCHES)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
							INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	
25 kV¥ & 35 kV¥¥, UL TYPE MV-105, 133%/100% INS. LEVEL, 345 MILS																			
17061.135105	1/0	0.34	1.020	1.120	0.080	2.03	1.32	33.53	1089	1620	423	629	195	215	200	215	195	220	4
17061.135205	2/0	0.38	1.060	1.160	0.080	2.03	1.36	34.54	1198	1783	511	761	225	255	230	245	225	250	4
17061.135305	3/0	0.42	1.105	1.205	0.080	2.03	1.40	35.56	1351	2011	623	927	260	290	260	275	260	290	4
17061.135405	4/0	0.48	1.160	1.260	0.080	2.03	1.46	37.08	1536	2286	762	1134	295	330	295	315	300	335	4
17061.136005	250	0.52	1.210	1.315	0.080	2.03	1.51	38.35	1695	2522	885	1318	330	365	325	345	335	370	5
17061.136205	350	0.62	1.310	1.410	0.080	2.03	1.61	40.89	2066	3075	1203	1790	395	440	390	415	415	460	5
17061.136505	500	0.74	1.430	1.530	0.080	2.03	1.26	32.00	2608	3882	1674	2491	480	535	465	500	515	575	3.5
17061.137005	750	0.91	1.610	1.710	0.110	2.79	1.98	50.29	3667	5457	2464	3666	585	655	565	610	665	745	6
17061.137505	1000	1.06	1.760	1.865	0.110	2.79	2.15	54.61	4661	6936	3249	4835	675	755	640	690	795	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 cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(69).

(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 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.



Aluminum Uniblend® PVC

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 1350 aluminum compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

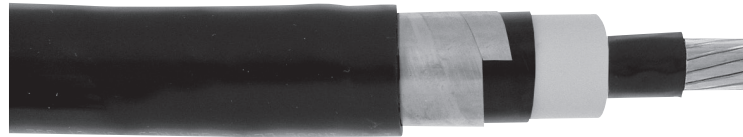
- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

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



Applications (cont'd):

- 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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight 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
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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
- RoHS Compliant

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				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY				CONDUIT SIZING (4) (INCHES)	
								DIAMETER		WEIGHT						CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)			TRAY (3)
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	LBS/1 000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C		105°C
25 kV¥ & 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	1.32	33.53	857	1275	99	147	97	144	150	170	155	165	150	170	4
17061.135208	2/0	0.38	1.060	1.160	0.080	2.03	1.36	34.54	919	1367	125	186	101	150	175	200	175	190	175	195	4
17061.135308	3/0	0.42	1.105	1.205	0.080	2.03	1.37	34.80	857	1275	158	235	105	156	200	225	200	215	205	225	4
17061.135408	4/0	0.48	1.160	1.260	0.080	2.03	1.46	37.08	1088	1619	199	296	109	162	230	260	230	245	235	265	4
17061.136008	250	0.52	1.210	1.315	0.080	2.03	1.51	38.35	1170	1742	234	349	114	169	255	290	250	270	260	290	5
17061.136208	350	0.62	1.310	1.410	0.080	2.03	1.61	40.89	1350	2009	329	490	122	181	310	350	305	330	325	360	5
17061.136508	500	0.74	1.430	1.530	0.080	2.03	1.73	43.94	1599	2379	468	697	132	197	385	430	370	400	400	450	5
17061.137008	750	0.91	1.610	1.710	0.110	2.79	2.00	50.80	2168	3226	703	1046	148	220	485	540	455	490	515	585	6
17061.137508	1000	1.06	1.760	1.865	0.110	2.79	2.15	54.61	2550	3795	937	1394	161	239	565	640	525	565	620	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(70).

(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 should be checked for individual installations.

¥ 100% insulation level is available upon request.

¥¥ 133% insulation level is available upon request.

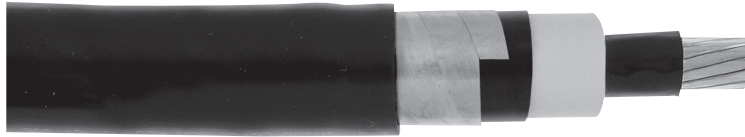
Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Aluminum Uniblend® PVC

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 1350 aluminum compressed Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-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)

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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight 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

Features (cont'd):

- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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
- RoHS Compliant

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				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY						CONDUIT SIZING (4) INCHES
								DIAMETER		WEIGHT						CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/ km	90 °C	105 °C	90 °C	105 °C	90 °C	105 °C		

25 kV¥ & 35 kV¥¥, UL TYPE MV-105, 133%/100% INS. LEVEL, 345 MILS

17061.135109	1/0	0.36	1.020	1.120	0.080	2.03	1.35	34.37	883	1313	101	150	100	149	150	170	155	165	150	170	4
17061.135209	2/0	0.41	1.060	1.160	0.080	2.03	1.40	35.46	946	1408	128	190	104	154	175	200	175	190	175	195	4
17061.135309	3/0	0.46	1.105	1.205	0.080	2.03	1.45	36.75	882	1313	161	240	108	160	200	225	200	215	205	225	4
17061.135409	4/0	0.51	1.160	1.260	0.080	2.03	1.50	38.18	1120	1667	203	302	112	167	230	260	230	245	235	265	5
17061.136009	250	0.56	1.210	1.315	0.080	2.03	1.56	39.60	1206	1794	239	356	117	174	255	290	250	270	260	290	5
17061.136209	350	0.66	1.310	1.410	0.080	2.03	1.66	42.21	1391	2069	336	499	125	187	310	350	305	330	325	360	5
17061.136509	500	0.79	1.430	1.530	0.080	2.03	1.80	45.67	1647	2450	478	711	136	203	385	430	370	400	400	450	5
17061.137009	750	0.97	1.610	1.710	0.110	2.79	2.04	51.74	2233	3323	717	1067	152	226	485	540	455	490	515	585	6
17061.137509	1000	1.12	1.760	1.865	0.110	2.79	2.19	55.52	2627	3909	956	1422	165	246	565	640	525	565	620	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(70).

(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 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.



Aluminum Uniblend® PVC

TRXLPE/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 1350 aluminum compressed Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- High dielectric strength Tree Retardant Crosslinked Polyethylene (TRXLPE) insulation, exhibiting an optimum balance of mechanical and electrical properties, insuring resistance to treeing

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

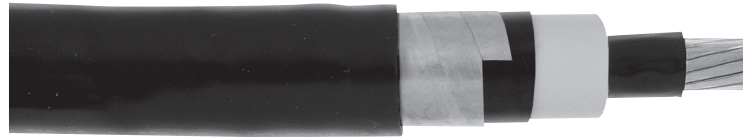
- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

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



Applications (cont'd):

- 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, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- CSA C68.10
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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. 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				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY						CONDUIT SIZING (4) (INCHES)
							DIAMETER		WEIGHT						CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C	
25 kV¥ & 35 kV¥¥, UL TYPE MV-105, 133%/100% INS. LEVEL, 345 MILS																					
17061.135107	1/0	0.36	1.020	1.120	0.080	2.03	1.35	34.37	813	1210	101	150	100	149	150	170	155	165	150	170	4
17061.135207	2/0	0.41	1.060	1.160	0.080	2.03	1.40	35.46	874	1300	128	190	104	154	175	200	175	190	175	195	4
17061.135307	3/0	0.46	1.105	1.205	0.080	2.03	1.45	36.75	820	1220	161	240	108	160	200	225	200	215	205	225	4
17061.135407	4/0	0.51	1.160	1.260	0.080	2.03	1.50	38.18	1038	1545	203	302	112	167	230	260	230	245	235	265	5
17061.136007	250	0.56	1.210	1.315	0.080	2.03	1.56	39.60	1119	1666	239	356	117	174	255	290	250	270	260	290	5
17061.136207	350	0.66	1.310	1.410	0.080	2.03	1.66	42.21	1296	1929	336	499	125	187	310	350	305	330	325	360	5
17061.136507	500	0.79	1.430	1.530	0.080	2.03	1.80	45.67	1542	2295	478	711	136	203	385	430	370	400	400	450	5
17061.137007	750	0.97	1.610	1.710	0.110	2.79	2.04	51.74	2094	3117	717	1067	152	226	485	540	455	490	515	585	6
17061.137507	1000	1.12	1.760	1.865	0.110	2.79	2.19	55.52	2474	3682	956	1422	165	246	565	640	525	565	620	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(70).

(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 should be checked for individual installations.

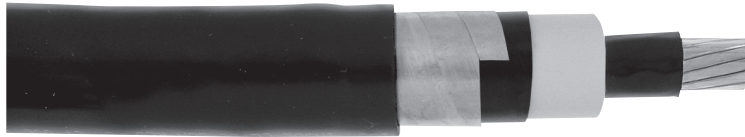
¥ 100% insulation level is available upon request.

¥¥ 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.



Uniblend® CPEEPR/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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

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, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss

Features (cont'd):

- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8-13 (AIEC CS8-20, Optional)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- 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
- RoHS Compliant

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)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
INCHES	MIN.	MAX.	IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90 °C	105 °C	90 °C	105 °C	90 °C	105 °C	
25 kV¥ & 35 kV¥¥, UL TYPE MV-105, 133%/100% INS. LEVEL, 345 MILS																			
17161.135105	1/0	0.34	1.020	1.120	0.080	2.03	1.32	33.53	1080	1607	423	629	195	215	200	215	195	220	4
17161.135205	2/0	0.38	1.060	1.160	0.080	2.03	1.36	34.54	1187	1766	511	761	225	255	230	245	225	250	4
17161.135305	3/0	0.42	1.105	1.205	0.080	2.03	1.40	35.56	1335	1987	623	927	260	290	260	275	260	290	4
17161.135405	4/0	0.48	1.160	1.260	0.080	2.03	1.46	37.08	1527	2272	762	1134	295	330	295	315	300	335	4
17161.136005	250	0.52	1.210	1.315	0.080	2.03	1.51	38.35	1685	2507	885	1318	330	365	325	345	335	370	5
17161.136205	350	0.62	1.310	1.410	0.080	2.03	1.61	40.89	2048	3048	1203	1790	395	440	390	415	415	460	5
17161.136505	500	0.74	1.430	1.530	0.080	2.03	1.26	32.00	2603	3873	1674	2491	480	535	465	500	515	575	3.5
17161.137005	750	0.91	1.610	1.710	0.110	2.79	1.98	50.29	3648	5428	2464	3666	585	655	565	610	665	745	6
17161.137505	1000	1.06	1.760	1.865	0.110	2.79	2.15	54.61	4636	6899	3249	4835	675	755	640	690	795	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 cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(69).

(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 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



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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Overall Jacket:

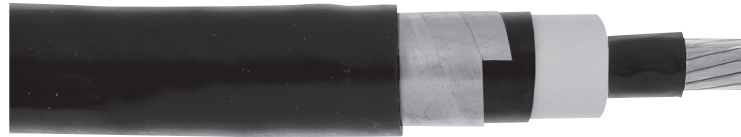
- Lead-free, moisture- and sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

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



Applications (cont'd):

- 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, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- UL 1685 Vertical Flame and ST1 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
- RoHS Compliant

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)
								DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C		
25 kV¥ & 35 kV¥¥, UL TYPE MV-105, 133%/100% INS. LEVEL, 345 MILS																				
17261.135105	1/0	0.34	1.020	1.120	0.080	2.03	1.32	33.53	1090	1622	423	629	195	215	200	215	195	220	4	
17261.135205	2/0	0.38	1.060	1.160	0.080	2.03	1.36	34.54	1211	1802	511	761	225	255	230	245	225	250	4	
17261.135305	3/0	0.42	1.105	1.205	0.080	2.03	1.40	35.56	1360	2024	623	927	260	290	260	275	260	290	4	
17261.135405	4/0	0.48	1.160	1.260	0.080	2.03	1.46	37.08	1547	2302	762	1134	295	330	295	315	300	335	4	
17261.136005	250	0.52	1.210	1.315	0.080	2.03	1.51	38.35	1712	2548	885	1318	330	365	325	345	335	370	5	
17261.136205	350	0.62	1.310	1.410	0.080	2.03	1.61	40.89	2108	3137	1203	1790	395	440	390	415	415	460	5	
17261.136505	500	0.74	1.430	1.530	0.080	2.03	1.72	43.69	2666	3968	1674	2491	480	535	465	500	515	575	5	
17261.137005	750	0.91	1.610	1.710	0.110	2.79	1.98	50.29	3733	5555	2464	3666	585	655	565	610	665	745	6	
17261.137505	1000	1.06	1.760	1.865	0.110	2.79	2.15	54.61	4651	6921	3249	4835	675	755	640	690	795	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 cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(69).

(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 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/STI, 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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Overall Jacket:

- Lead-free, moisture- and sunlight-resistant Low-Smoke, Zero-Halogen Polyolefin (LSZH)

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, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- Easy Glider® low friction technology for easy cable pulling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

Features (cont'd):

- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E518856
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- UL 1685 Vertical Flame and STI 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
- RoHS Compliant

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		GROUND WIRE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY					
								DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)	
		INCHES	MIN.	MAX.		IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C
25 kV¥ & 35 kV¥¥, UL TYPE MV-105, 133%/100% INS. LEVEL, 345 MILS, THREE CONDUCTOR																			
15493.485105	1/0	0.34	1.020	1.120	4	0.110	2.79	2.75	69.85	3738	5563	1402	2086	195	215	195	210	215	240
15493.485205	2/0	0.38	1.060	1.160	4	0.110	2.79	2.81	71.37	4061	6043	1675	2493	220	245	220	235	245	275
15493.485405	4/0	0.48	1.160	1.260	3	0.140	3.56	3.09	78.49	5269	7842	2457	3656	290	320	285	305	325	360
15493.486005	250	0.52	1.210	1.315	2	0.140	3.56	3.22	81.79	5938	8837	2870	4271	315	350	310	335	360	400
15493.486205	350	0.62	1.310	1.410	2	0.140	3.56	3.42	86.87	7084	10542	3825	5692	385	430	375	400	435	490
15493.486505	500	0.74	1.430	1.530	1	0.140	3.56	3.67	93.22	8829	13138	5297	7882	470	525	450	485	535	600
15493.487005	750	0.91	1.610	1.710	1/0	0.140	3.56	4.10	104.14	12030	17903	7750	11533	570	635	545	585	670	745

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 cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(69).

¥ 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.



Uniblend® PVC

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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

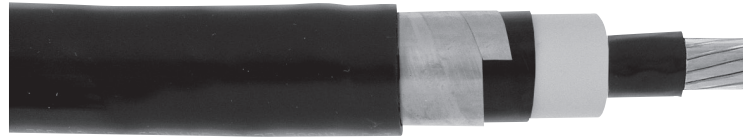
- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

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



Applications (cont'd):

- 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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight 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
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- 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
- RoHS Compliant

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)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C	
35 kV, UL TYPE MV-105, 133% INS. LEVEL, 420 MILS																			
17071.135105	1/0	0.34	1.060	1.265	0.080	2.03	1.49	37.77	1292	1922	436	648	195	215	200	215	195	220	5
17071.135205	2/0	0.38	1.200	1.305	0.080	2.03	1.53	38.79	1412	2102	524	780	225	255	230	245	225	250	5
17071.135305	3/0	0.42	1.245	1.355	0.080	2.03	1.57	39.98	1566	2330	636	946	260	290	260	275	260	290	5
17071.135405	4/0	0.48	1.300	1.405	0.080	2.03	1.63	41.28	1757	2615	775	1153	295	330	295	315	300	335	5
17071.136005	250	0.52	1.350	1.460	0.080	2.03	1.68	42.77	1924	2863	898	1337	330	365	325	345	335	370	5
17071.136205	350	0.62	1.450	1.555	0.110	2.79	1.86	47.27	2465	3668	1216	1809	395	440	390	415	415	460	6
17071.136505	500	0.74	1.570	1.675	0.110	2.79	1.98	50.22	3032	4512	1687	2511	480	535	465	500	515	575	6
17071.137005	750	0.91	1.750	1.860	0.110	2.79	2.15	54.53	3960	5893	2477	3685	585	655	565	610	665	745	6
17071.137505	1000	1.06	1.900	2.010	0.110	2.79	2.32	58.93	4976	7406	3262	4854	675	755	640	690	795	890	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 cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(69).

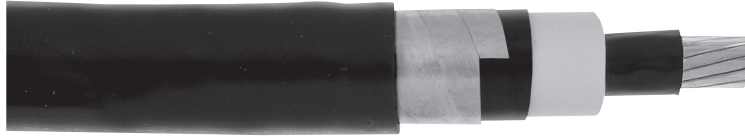
(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered but should be checked for individual installations.

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

Aluminum Uniblend® PVC

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 strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss

Features (cont'd):

- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- 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
- RoHS Compliant

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				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY						CONDUIT SIZING (4) (INCHES)
							DIAMETER		WEIGHT						CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C	
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	150	170	155	165	150	170	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	175	200	175	190	175	195	5
17071.135308	3/0	0.42	1.245	1.355	0.080	2.03	1.53	38.86	1172	1744	158	235	118	176	200	225	200	215	205	225	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	230	260	230	245	235	265	5
17071.136008	250	0.52	1.350	1.460	0.080	2.03	1.64	41.66	1350	2009	234	349	127	189	255	290	250	270	260	290	5
17071.136208	350	0.62	1.450	1.555	0.110	2.79	1.79	45.47	1644	2447	329	490	136	202	310	350	305	330	325	360	5
17071.136508	500	0.74	1.570	1.675	0.110	2.79	1.91	48.51	1910	2842	468	697	146	217	385	430	370	400	400	450	6
17071.137008	750	0.91	1.750	1.860	0.110	2.79	2.09	53.09	2341	3484	703	1046	161	240	485	540	455	490	515	585	6
17071.137508	1000	1.06	1.900	2.010	0.110	2.79	2.25	57.15	2734	4069	937	1394	175	260	565	640	525	565	620	705	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(70).

(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 should be checked for individual installations.

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Aluminum Uniblend® PVC

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 compressed Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Jacket:

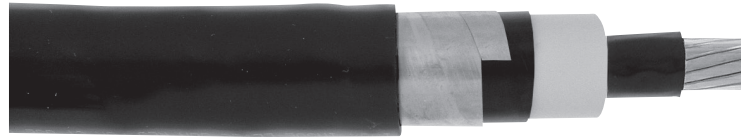
- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

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



Applications (cont'd):

- 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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling

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
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8 -13 (AEIC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- 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
- RoHS Compliant

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				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY						CONDUIT SIZING (4) (INCHES)
								DIAMETER		WEIGHT						CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		TRAY (3)		
			INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	105°C	
35 kV, UL TYPE MV-105, 133% INS. LEVEL, 420 MILS																						
17071.135109	1/0	0.36	1.060	1.265	0.080	2.03	1.51	38.28	1057	1573	101	150	114	170	150	170	155	165	150	170	5	
17071.135209	2/0	0.41	1.200	1.305	0.080	2.03	1.55	39.37	1125	1674	128	190	117	175	175	200	175	190	175	195	5	
17071.135309	3/0	0.46	1.245	1.355	0.080	2.03	1.60	40.67	1207	1796	161	240	122	181	200	225	200	215	205	225	5	
17071.135409	4/0	0.51	1.300	1.405	0.080	2.03	1.66	42.09	1300	1934	203	302	127	189	230	260	230	245	235	265	5	
17071.136009	250	0.56	1.350	1.460	0.080	2.03	1.71	43.51	1391	2069	239	356	131	195	255	290	250	270	260	290	5	
17071.136209	350	0.66	1.450	1.555	0.110	2.79	1.88	47.65	1693	2520	336	499	140	208	310	350	305	330	325	360	6	
17071.136509	500	0.79	1.570	1.675	0.110	2.79	2.01	51.10	1967	2928	478	711	150	224	385	430	370	400	400	450	6	
17071.137009	750	0.97	1.750	1.860	0.110	2.79	2.19	55.65	2411	3588	717	1067	166	247	485	540	455	490	515	585	8	
17071.137509	1000	1.12	1.900	2.010	0.110	2.79	2.34	59.44	2816	4191	956	1422	180	268	565	640	525	565	620	705	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(70).

(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 should be checked for individual installations.

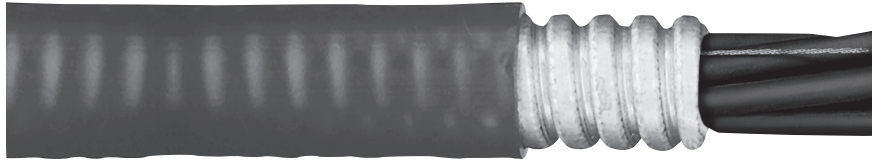
Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

Notes

600 V – 35 kV Industrial Armored Cables

SPECIFICATION NUMBER	PRODUCT DESCRIPTION	REVISION DATE	PAGE NUMBER
7050† Duralox®	XLPE/AIA/PVC, Control, Armored 600 V or 1000 V UL Type MC, Multi-Conductor	Feb 2025	67
7100† Duralox®	XLPE, Low-Voltage Power 600 V or 1000 V UL Type XHHW-2, CT Rated, Single Conductor, Copper	Feb 2025	68
7150† Duralox®	XLPE/AIA/PVC, Power, Armored 600 V or 1000 V UL Type MC, Three and Four Conductor (250 kcmil - 1000 kcmil)	Feb 2025	69
7160† Duralox®	XLPE/AIA/PVC, Power, Armored, with Enhanced Ground Wires (50%) 600 V or 1000 V UL Type MC, Three Conductor (1/0 AWG - 1000 kcmil)	Feb 2025	70
7200† Duralox®	EPR/AIA/PVC, Power, Nonshielded, Armored 2400 V UL Type MV-90 or MC, Three Conductor	Feb 2025	71
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	Feb 2025	72
7300† Duralox® Uniblend®	EPR/AIA/PVC, Power, Shielded, Armored 15 kV UL Type MV-105 or MC, 133% Ins. Level, 220 Mils, Three Conductor	Feb 2025	73
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	Feb 2025	74
7350† Duralox® Uniblend®	EPR/AIA/PVC, Power, Shielded, Armored 25 kV UL Type MV-105 or MC, 100% Ins. Level, 260 Mils, Three Conductor	Feb 2025	75
7400† Duralox® Uniblend®	EPR/AIA/PVC, Power, Shielded, Armored 35 kV UL Type MV-105 or MC, 100% Ins. Level, 345 Mils, Three Conductor	Feb 2025	76

Duralox®XLPE/AIA/PVC, Control, Armored 600 V or 1000 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

Options:

- Galvanized Steel Interlocked Armor (GSIA)

Applications:

- In all raceways or direct burial
- In wet or dry locations
- Permitted for use per NEC Article 330
 - Class I, Division 2
 - Class II, Division 2
 - Class III, Divisions 1 and 2

Features:

- Rated at 90°C wet or dry
- Sunlight-resistant for CT use
- 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 -40°C

Compliances:**Industry Compliances:**

- UL 1569
- UL 44
- ICEA S-95-658/NEMA WC70
- UL Type MC, 600 V or 1000 V, UL File # E90496
- NEC Type XHHW-2 conductors

Flame Test Compliances:

- UL 1685 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4

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, 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

14 AWG CONDUCTORS

346410*	2	14	14	0.030	0.76	0.52	13.1	0.050	1.27	0.62	15.7	39	58	159	236
346420	3	14	14	0.030	0.76	0.54	13.7	0.050	1.27	0.65	16.4	52	77	180	268
346430*	4	14	14	0.030	0.76	0.59	15.0	0.050	1.27	0.69	17.6	65	96	211	314
346440	5	14	14	0.030	0.76	0.61	15.6	0.050	1.27	0.72	18.2	78	115	233	346
346450	7	14	14	0.030	0.76	0.68	17.3	0.050	1.27	0.78	19.9	103	154	283	421
346460	9	14	14	0.030	0.76	0.74	18.7	0.050	1.27	0.84	21.3	129	192	334	497
346470	12	14	14	0.030	0.76	0.81	20.5	0.050	1.27	0.91	23.1	168	250	399	594
346480	19	14	14	0.030	0.76	0.92	23.4	0.050	1.27	1.02	26.0	259	385	549	816
346490*	25	14	14	0.030	0.76	1.05	26.7	0.050	1.27	1.16	29.4	336	500	685	1019
346500*	37	14	14	0.030	0.76	1.19	30.1	0.050	1.27	1.29	32.8	491	731	926	1377

12 AWG CONDUCTORS

346510*	2	12	12	0.030	0.76	0.55	14.0	0.050	1.27	0.66	16.7	62	92	191	284
346520	3	12	12	0.030	0.76	0.59	15.0	0.050	1.27	0.69	17.6	82	122	225	335
346530	4	12	12	0.030	0.76	0.64	16.1	0.050	1.27	0.74	18.8	103	153	263	391
346540	5	12	12	0.030	0.76	0.66	16.8	0.050	1.27	0.77	19.5	123	184	293	436
346550	7	12	12	0.030	0.76	0.74	18.8	0.050	1.27	0.84	21.4	165	245	364	542
346560*	9	12	12	0.030	0.76	0.80	20.4	0.050	1.27	0.91	23.0	206	306	437	650
346570	12	12	12	0.030	0.76	0.88	22.4	0.050	1.27	0.99	25.0	267	398	530	789
346580*	19	12	12	0.030	0.76	1.01	25.7	0.050	1.27	1.11	28.3	411	612	737	1097
346590*	25	12	12	0.030	0.76	1.18	30.0	0.050	1.27	1.28	32.5	535	829	1058	1575
346600*	37	12	12	0.030	0.76	1.31	33.3	0.050	1.27	1.41	35.8	781	1180	1403	2088

10 AWG CONDUCTORS

346610	3	10	10	0.030	0.76	0.65	16.5	0.050	1.27	0.75	19.2	131	195	292	435
346620	4	10	10	0.030	0.76	0.70	17.8	0.050	1.27	0.80	20.4	164	243	342	508

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 or 1000 V

UL Type MC, Three and Four Conductor (8 AWG—4/0 AWG)

Product Construction:

Conductors:

- 8 AWG bare compressed copper, Class B stranding per ASTM B8
- 6 AWG thru 4/0 AWG bare compact copper, Class B stranding per ASTM B496

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:

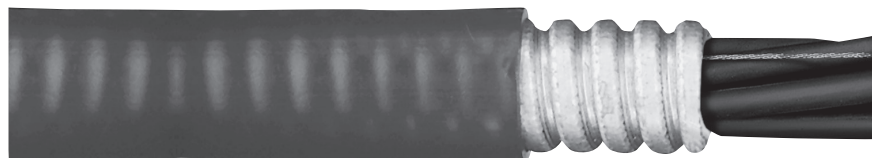
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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 per NEC Article 330
 - Class I, Division 2
 - Class II, Division 2
 - Class III, Divisions 1 and 2



Applications (cont'd.):

- Installed in both exposed or concealed work, wet or dry locations, indoors or outdoors, direct burial 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 -40°C
- Sunlight-resistant for CT use

Compliances:

Industry Compliances:

- UL 1569
- UL 44
- ICEA S-95-658/NEMA WC70
- UL Type MC-600 V or 1000 V, UL File # E90496
- NEC Type XHHW-2 conductors

Compliances (cont'd.):

Flame Test Compliances:

- UL 1685 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

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

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 CONDUCTORS															
346630	3	8	10	0.045	1.14	0.77	19.4	0.050	1.27	0.87	22.1	189	281	394	586
346640*	4	8	10	0.045	1.14	0.84	21.2	0.050	1.27	0.94	23.9	241	358	483	719
11298.030600	3	6	8	0.045	1.14	0.78	19.9	0.050	1.27	0.89	22.7	300	446	550	818
11298.040600*	4	6	8	0.045	1.14	0.85	21.6	0.050	1.27	0.96	24.4	382	569	677	1007
11298.030400	3	4	8	0.045	1.14	0.88	22.3	0.050	1.27	0.99	25.0	447	665	722	1075
11298.040400*	4	4	8	0.045	1.14	0.96	24.3	0.050	1.27	1.07	27.1	578	861	884	1315
11298.030200	3	2	6	0.045	1.14	1.00	25.3	0.050	1.27	1.11	28.1	710	1056	1016	1512
11298.040200*	4	2	6	0.045	1.14	1.09	27.7	0.050	1.27	1.20	30.5	919	1367	1249	1858
11298.030100*	3	1	6	0.055	1.40	1.11	28.2	0.050	1.27	1.22	31.0	875	1302	1245	1852
11298.040100*	4	1	6	0.055	1.40	1.22	30.9	0.050	1.27	1.33	33.7	1139	1695	1566	2331
11298.035100	3	1/0	6	0.055	1.40	1.19	30.1	0.050	1.27	1.30	32.9	1080	1607	1473	2192
11298.045100*	4	1/0	6	0.055	1.40	1.30	33.1	0.050	1.27	1.41	35.9	1413	2102	1855	2761
11298.035200	3	2/0	6	0.055	1.40	1.28	32.5	0.050	1.27	1.39	35.3	1340	1994	1765	2627
11298.045200*	4	2/0	6	0.055	1.40	1.41	35.7	0.050	1.27	1.52	38.5	1759	2618	2245	3341
11298.035300	3	3/0	4	0.055	1.40	1.38	35.0	0.050	1.27	1.49	37.8	1717	2554	2169	3227
11298.045300*	4	3/0	4	0.055	1.40	1.61	40.9	0.060	1.52	1.74	44.2	2245	3341	2825	4203
11298.035400	3	4/0	4	0.055	1.40	1.57	40.0	0.060	1.52	1.70	43.3	2130	3169	2714	4038
11298.045400*	4	4/0	4	0.055	1.40	1.73	43.8	0.060	1.52	1.86	47.1	2796	4160	3413	5079

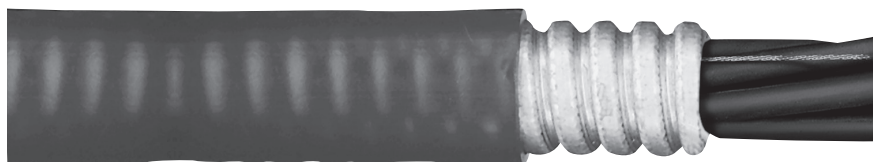
Dimensions and weights are nominal; subject to industry tolerances.

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

Duralox®

XLPE/AIA/PVC, Power, Armored 600 V or 1000 V

UL Type MC, Three and Four Conductor (250 kcmil—1000 kcmil)

**Product Construction:****Conductors:**

- 250 kcmil thru 1000 kcmil bare compact copper, Class B stranding per ASTM B496

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

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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 per NEC Article 330
 - Class I, Division 2
 - Class II, Division 2
 - Class III, Divisions 1 and 2
- Installed in both exposed or concealed work, wet or dry locations, indoors or outdoors, direct burial 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 -40°C
- Sunlight-resistant for CT use

Compliances:**Industry Compliances:**

- UL 1569
- UL 44
- ICEA S-95-658/NEMA WC70
- UL Type MC, 600 V or 1000 V, UL File # E90496
- NEC Type XHHW-2 conductors

Flame Test Compliances:

- UL 1685 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

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

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 CONDUCTORS															
11298.036000	3	250	4	0.065	1.65	1.71	43.5	0.060	1.52	1.84	46.8	2494	3711	3201	4762
11298.046000*	4	250	4	0.065	1.65	1.89	48.0	0.060	1.52	2.02	51.3	3281	4883	4128	6142
11298.036200	3	350	3	0.065	1.65	1.91	48.6	0.060	1.52	2.04	51.9	3471	5164	4222	6282
11298.046200	4	350	3	0.065	1.65	2.11	53.5	0.060	1.52	2.24	56.8	4572	6803	5345	7954
11298.036500	3	500	2	0.065	1.65	2.18	55.2	0.060	1.52	2.31	58.5	4928	7332	5815	8653
11298.046500	4	500	2	0.065	1.65	2.40	61.0	0.075	1.91	2.56	65.1	6500	9673	7574	11271
11298.037000*	3	750	1	0.080	2.03	2.62	66.5	0.075	1.91	2.78	70.6	7351	10938	8558	12734
11298.047000*	4	750	1	0.080	2.03	2.90	73.6	0.075	1.91	3.06	77.7	9713	14454	11112	16534
11298.037500*	3	1000	1/0	0.080	2.03	2.95	74.8	0.075	1.91	3.11	79.0	9776	14099	11233	16716
11298.047500*	4	1000	1/0	0.080	2.03	3.26	82.9	0.085	2.16	3.45	87.6	12923	18644	14713	21896

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 or 1000 V
UL Type MC, Three Conductor (1/0 AWG—1000 kcmil)

Product Construction:

Conductors:

- 1/0 AWG thru 1000 kcmil bare compact copper, Class B stranding per ASTM B496

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

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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 per NEC Article 330
 - Class I, Division 2
 - Class II, Division 2
 - Class III, Divisions 1 and 2
- Installed in both exposed or concealed work, wet or dry locations, indoors or outdoors, direct burial 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 -40°C
- Sunlight-resistant for CT use

Compliances:

Industry Compliances:

- UL 1569
- UL 44
- ICEA S-95-658/NEMA WC70
- UL Type MC-600 V or 1000 V, UL File # E90496
- NEC Type XHHW-2 conductors

Flame Test Compliances:

- UL 1685 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Compliances (cont'd.):

Other Compliances:

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

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 CONDUCTORS

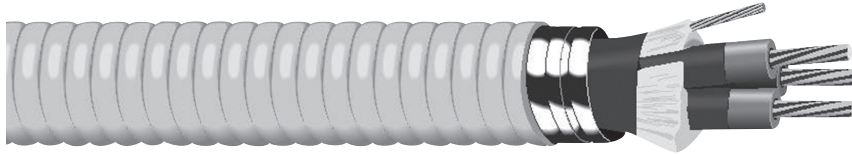
11298.515100*	3	1/0	3x6	0.055	1.40	1.20	30.5	0.050	1.27	1.31	33.3	1211	1802	1626	2420
11298.515200*	3	2/0	3x6	0.055	1.40	1.29	32.8	0.050	1.27	1.40	35.6	1445	2150	1945	2894
11298.515300*	3	3/0	3x5	0.055	1.40	1.39	35.4	0.050	1.27	1.50	38.2	1800	2679	2382	3544
11298.515400*	3	4/0	3x4	0.055	1.40	1.59	40.5	0.060	1.52	1.72	43.8	2283	3397	2981	4436
11298.516000*	3	250	3x4	0.065	1.65	1.72	43.6	0.060	1.52	1.85	46.9	2644	3935	3418	5086
11298.516200*	3	350	3x2	0.065	1.65	1.92	48.9	0.060	1.52	2.05	52.2	3761	5597	4675	6957
11298.516500	3	500	3x1	0.065	1.65	2.18	55.2	0.060	1.52	2.31	58.5	5511	8200	6357	9459
11298.517000*	3	750	3x2/0	0.080	2.03	2.62	66.5	0.075	1.91	2.78	70.6	7987	11886	9098	13539
11298.517500*	3	1000	3x3/0	0.080	2.03	2.95	74.8	0.075	1.91	3.11	79.0	10357	15412	11829	17604

Dimensions and weights are nominal; subject to industry tolerances.

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

Duralox®

EPR/AIA/PVC, Power, Nonshielded, Armoredm2400 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

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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, direct burial and in exposed or concealed work
- May be used in cable trays or on approved supports in protected areas
- Permitted for use per NEC Article 330
 - Class I, Division 2
 - Class II, Division 2
 - Class III, Divisions 1 and 2

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

Features (cont'd.):

- Chemical- and radiation-resistant
- Excellent crush resistance
- Flame or sunlight resistance
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -40°C
- 90°C rating for continuous operation
- 130°C rating for emergency overload conditions
- 250°C rating for short circuit conditions
- Sunlight-resistant for CT use

Compliances:**Industry Compliances:**

- UL 1569
- UL 1072
- ICEA S-96-659/NEMA WC71
- UL Type MV-90, UL File # E518856
- UL Type MC, UL File # E90496

Flame Test Compliances:

- UL 1685 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4

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 CONDUCTORS - 115 MILS INS.

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	710	1056	1325	1971
17471.585100*	3	1/0	0.34	4	0.115	2.92	1.62	41.0	0.060	1.52	1.75	44.3	1129	1680	1940	2886
17471.585200	3	2/0	0.38	4	0.115	2.92	1.70	43.1	0.060	1.52	1.83	46.4	1389	2067	2252	3351
17471.585400	3	4/0	0.48	3	0.115	2.92	1.78	45.3	0.060	1.52	1.91	48.6	2164	3220	2999	4463
17471.586000*	3	250	0.52	3	0.115	2.92	2.00	50.7	0.060	1.52	2.13	54.0	2528	3762	3605	5364
17471.586200	3	350	0.62	2	0.115	2.92	2.20	55.8	0.060	1.52	2.33	59.1	3514	5229	4680	6963
17471.586500	3	500	0.74	1	0.115	2.92	2.46	62.5	0.075	1.91	2.62	66.6	4983	7414	6411	9540
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	1.06	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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free tripping from insulation

Shield:

- Annealed copper tape with an overlap of 25%

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
- Options:
- Galvanized Steel Interlocked Armor (GSIA)

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



Applications (cont'd.):

- Installed in wet or dry locations, indoors or outdoors, direct burial and in exposed or concealed work
- May be used in cable trays or on approved support in protected areas
- Permitted for use per NEC Article 330
 - Class I, Division 2
 - Class II, Division 2
 - Class III, Divisions 1 and 2

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 -40°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions
- Sunlight-resistant for CT use

Compliances:

Industry Compliances:

- UL 1072
- ICEA S-93-639/NEMA WC74
- AEIC CS8-13 (AEIC CS8-20, Optional)
- UL Type MV-105, UL File # E518856
- UL Type MC, UL File # E90496

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- UL 1685 (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
- RoHS Compliant

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

6 AWG - 1000 kcmil CONDUCTORS

5 kV, 133% INS. LEVEL OR 8 kV, 100% INS. LEVEL, 115 MILS INS.

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	13.6	6	1.43	36.4	0.050	1.27	1.54	39.2	477	710	1347	2004
17473.530200	3	2	0.27	0.51	13.0	0.59	15.0	6	1.65	41.8	0.060	1.52	1.78	45.1	710	1056	1787	2659
17473.535100*	3	1/0	0.34	0.58	14.7	0.66	16.6	4	1.79	45.4	0.060	1.52	1.92	48.7	1129	1680	2316	3446
17473.535200	3	2/0	0.38	0.62	15.7	0.70	17.7	4	1.87	47.6	0.060	1.52	2.00	50.9	1389	2067	2646	3937
17473.535400	3	4/0	0.48	0.72	18.3	0.80	20.2	3	2.08	52.9	0.060	1.52	2.21	56.2	2164	3220	3569	5311
17473.536000*	3	250	0.52	0.77	19.6	0.85	21.6	3	2.21	56.1	0.060	1.52	2.34	59.4	2528	3762	4165	6198
17473.536200	3	350	0.62	0.87	22.1	0.95	24.0	2	2.41	61.1	0.075	1.91	2.57	65.3	3514	5229	5290	7871
17473.536500	3	500	0.74	0.99	25.1	1.07	27.1	1	2.66	67.5	0.075	1.91	2.82	71.6	4983	7414	6947	10338
17473.537000*	3	750	0.91	1.17	29.7	1.25	31.8	1/0	3.06	77.7	0.085	2.16	3.25	82.6	7684	11434	10084	15005
17473.537500*	3	1000	1.06	1.32	33.5	1.40	35.6	1/0	3.40	86.3	0.085	2.16	3.58	90.9	9776	14546	12744	18963

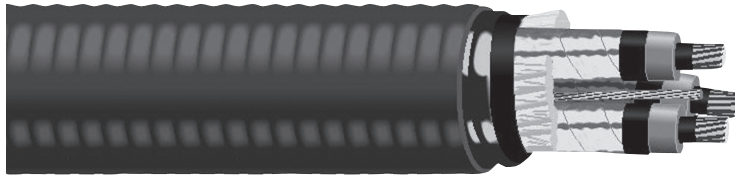
Dimensions and weights are nominal; subject to industry tolerances.

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

Duralox® Uniblend®

EPR/AIA/PVC, Power, Shielded, Armored 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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:

- Annealed copper tape with an overlap of 25%

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

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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, direct burial and in exposed or concealed work
- May be used in cable trays or on approved support in protected areas
- Permitted for use per NEC Article 330
 - Class I, Division 2
 - Class II, Division 2
 - Class III, Divisions 1 and 2

Features:

- Rated at 105°C wet or dry
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength

Features (cont'd.):

- 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 -40°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions
- Sunlight-resistant for CT use

Compliances:**Industry Compliances:**

- UL 1072
- ICEA S-93-639/NEMA WC74
- AEIC CS8-13 (AEIC CS8-20, Optional)
- UL Type MV-105, UL File # E518856
- UL Type MC, UL File # E90496

Flame Test Compliances:

- UL 1685 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4

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, 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.	MAX.	MIN.	MAX.		INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km

2 AWG - 1000 kcmil CONDUCTORS
15 kV, 133% INS. LEVEL, 220 MILS INS.

17476.530200	3	2	0.27	0.71	18.0	0.80	20.3	6	2.08	52.9	0.060	1.52	2.21	56.2	710	1056	2362	3515
17476.535100*	3	1/0	0.34	0.78	19.8	0.87	22.1	4	2.22	56.4	0.060	1.52	2.35	59.7	1129	1680	2997	4460
17476.535200	3	2/0	0.38	0.82	20.8	0.91	23.0	4	2.31	58.8	0.060	1.52	2.44	62.1	1389	2067	3283	4885
17476.535400	3	4/0	0.48	0.92	23.4	1.01	25.5	3	2.52	64.1	0.075	1.91	2.69	68.2	2164	3220	4360	6488
17476.536000*	3	250	0.52	0.97	24.6	1.06	26.9	3	2.65	67.3	0.075	1.91	2.81	71.4	2528	3762	5005	7447
17476.536200	3	350	0.62	1.07	27.2	1.16	29.3	2	2.85	72.3	0.075	1.91	3.01	76.4	3514	5229	6085	9054
17476.536500	3	500	0.74	1.19	30.2	1.28	32.4	1	3.10	78.7	0.085	2.16	3.28	83.3	4983	7414	7864	11701
17476.537000*	3	750	0.91	1.37	34.8	1.46	37.1	1/0	3.46	88.0	0.085	2.16	3.65	92.6	7419	11040	10690	15907
17476.537500*	3	1000	1.06	1.52	38.6	1.61	40.9	1/0	3.84	97.4	0.085	2.16	4.02	102.1	9776	14546	13797	20530

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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:

- Annealed copper tape with an overlap of 25%

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

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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



Applications (cont'd.):

- Installed in wet or dry locations, indoors or outdoors, direct burial and in exposed or concealed work
- May be used in cable trays or on approved support in protected areas
- Permitted for use per NEC Article 330
 - Class I, Division 2
 - Class II, Division 2
 - Class III, Divisions 1 and 2

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 -40°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions
- Sunlight-resistant for CT use

Compliances:

Industry Compliances:

- UL 1072
- ICEA S-93-639/NEMA WC74
- AEIC CS8-13 (AEIC CS8-20, Optional)
- UL Type MV-105, UL File # E518856
- UL Type MC, UL File # E90496

Flame Test Compliances:

- UL 1685 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4

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, 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.		MAX.			INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000FT	kg/ km	LBS/ 1000FT	kg/ km
				INCHES	mm	INCHES	mm											

1/0 AWG - 1000 kcmil CONDUCTORS 15 kV, 133% INS. LEVEL, 220 MILS INS.

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	0.52	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	3.10	78.7	0.075	1.91	3.26	82.8	5511	8200	8293	12340
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

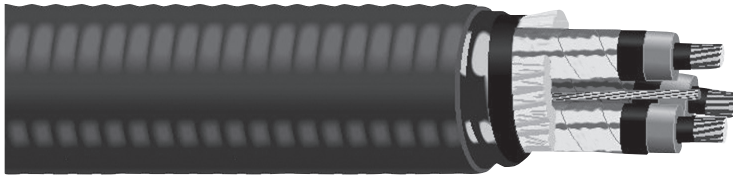
Dimensions and weights are nominal; subject to industry tolerances.

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

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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:

- Annealed copper tape with an overlap of 25%

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

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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, direct burial and in exposed or concealed work
- May be used in cable trays or on approved support in protected areas
- Permitted for use per NEC Article 330
 - Class I, Division 2
 - Class II, Division 2
 - Class III, Divisions 1 and 2

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

Features (cont'd.):

- Chemical- and radiation-resistant
- Excellent crush resistance
- Cost-effective alternative to installations in conduit
- Meets cold bend test at -40°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions
- Sunlight-resistant for CT use

Compliances:**Industry Compliances:**

- UL 1072
- ICEA S-93-639/NEMA WC74
- AEIC CS8-13 (AEIC CS8-20, Optional)
- UL Type MV-105, UL File # E518856
- UL Type MC, UL File # E90496

Flame Test Compliances:

- UL 1685 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4

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, 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 CONDUCTORS
25 kV, 100% INS. LEVEL, 260 MILS INS.

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	0.99	25.0	4	2.49	63.1	0.075	1.91	2.65	67.2	1389	2067	3469	5161
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	2164	3626	4807	7158
17477.536000*	3	250	0.52	1.04	26.4	1.14	28.8	3	2.81	71.5	0.075	1.91	2.98	75.6	2528	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	3514	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	4983	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:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Shield:

- Annealed copper tape with an overlap of 25%

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

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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



Applications (cont'd.):

- Installed in wet or dry locations, indoors or outdoors, direct burial and in exposed or concealed work
- May be used in cable trays or on approved support in protected areas
- Permitted for use per NEC Article 330
 - Class I, Division 2
 - Class II, Division 2
 - Class III, Divisions 1 and 2

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 -40°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions
- Sunlight-resistant for CT use

Compliances:

Industry Compliances:

- UL 1072
- ICEA S-93-639/NEMA WC74
- AEIC CS8-13 (AEIC CS8-20, Optional)
- UL Type MV-105, UL File # E518856
- UL Type MC, UL File # E90496

Flame Test Compliances:

- UL 1685 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4

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, 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	MAX. INCHES	mm		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

1/0 AWG - 750 kcmil CONDUCTORS 35 kV, 100% INS. LEVEL, 345 MILS INS.

17480.535100*	3	1/0	0.34	1.02	25.91	1.12	28.45	4	0.28	7.05	0.075	1.91	2.94	74.57	1129	1680.16	3725	5542.65
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	1389	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	2164	3696	5572	8297
17480.536000*	3	250	0.52	1.21	30.7	1.32	33.4	3	3.19	81.1	0.085	2.16	3.38	85.7	2528	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	3514	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	4983	7957	9400	13997
17480.537000*	3	750	0.91	1.61	40.9	1.71	43.4	1/0	4.01	101.9	0.085	2.16	4.19	106.5	7419	11040	12021	17887

Dimensions and weights are nominal; subject to industry tolerances.

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

Notes

600 V – 28 kV TECK90 Armored Control and Power Cables

SPECIFICATION NUMBER	PRODUCT DESCRIPTION	REVISION DATE	PAGE NUMBER
8025 TECK90	XLPE/PVC/AIA/PVC, Control, Armored 600 V CSA TECK90, Multi-Conductor, 14 AWG	Feb 2025	80
8050† TECK90	XLPE/PVC/AIA/PVC, Control, Armored 600 V CSA TECK90, Multi-Conductor, 12 AWG	Feb 2025	81
8075† TECK90	XLPE/PVC/AIA/PVC, Control, Armored 600 V CSA TECK90, Multi-Conductor, 10 AWG	Feb 2025	82
8100 TECK90	XLPE/PVC/AIA/PVC, Power, Armored 1000 V CSA TECK90, Single Conductor	Feb 2025	83
8125 TECK90	XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V CSA TECK90, Two Conductor	Feb 2025	84
8150† TECK90	XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V CSA TECK90, Three Conductor	Feb 2025	85
8175† TECK90	XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V CSA TECK90, Four Conductor	Feb 2025	86
8200 TECK90	XLPE/PVC/AIA/PVC, Power/Control Composite 600 V CSA TECK90, Three Power and Three 14 AWG Control Conductors	Feb 2025	87
8250† TECK90	TRXLPE/PVC/AIA/PVC, Power, Unshielded, Armored 5 kV CSA TECK90, Three Conductor	Feb 2025	88
8275 HVTECK	TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV CSA HVTECK, 100% Ins. Level, 90 Mils, Single Conductor	Feb 2025	89
8300 HVTECK	TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV (133% Ins. Level)/8 kV (100% Ins. Level), 115 Mils CSA HVTECK Single Conductor	Feb 2025	90
8325 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV CSA HVTECK, 100% Ins. Level, 90 Mils, Three Conductor	Feb 2025	91
8350 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV (133% Ins. Level)/8 kV (100% Ins. Level), 115 Mils CSA HVTECK Three Conductor	Feb 2025	92
8375 HVTECK	TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 100% Ins. Level, 175 Mils, Single Conductor	Feb 2025	93
8400 HVTECK	TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 133% Ins. Level, 220 Mils, Single Conductor	Feb 2025	94
8425 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 100% Ins. Level, 175 Mils, Three Conductor	Feb 2025	95
8450† HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 133% Ins. Level, 220 Mils, Three Conductor	Feb 2025	96
8475 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 25 kV CSA HVTECK, 100% Ins. Level, 260 Mils, Three Conductor	Feb 2025	97
8500 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 25 kV CSA HVTECK, 133% Ins. Level, 320 Mils, Three Conductor	Feb 2025	98
8525 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 28 kV CSA HVTECK, 133% Ins. Level, 345 Mils, Three Conductor	Feb 2025	99

†Indicates these products are stocked by Prysmian

600 V – 28 kV TECK90 Armored Control and Power Cables

SPECIFICATION NUMBER	PRODUCT DESCRIPTION	REVISION DATE	PAGE NUMBER
8540 HVTECK	TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 35kV CSA HVTECK, 133% Ins. Level, 420 Mils, Three Conductor	Feb 2025	100
8550 VERTITECK® TECK90	XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored 1 kV CSA TECK90, Three Conductor	Feb 2025	101
8575 VERTITECK® TECK90	XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored 5 kV CSA TECK90, 90 Mils, Three Conductor	Feb 2025	102
8600 VERTITECK® HVTECK	TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 133% Ins. Level, 220 Mils, Three Conductor	Feb 2025	103
8625 VERTITECK® HVTECK	TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored 15 kV CSA HVTECK, 100% Ins. Level, 175 Mils, Three Conductor	Feb 2025	104

†Indicates these products are stocked by Prysmian

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, white, red and blue; 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:

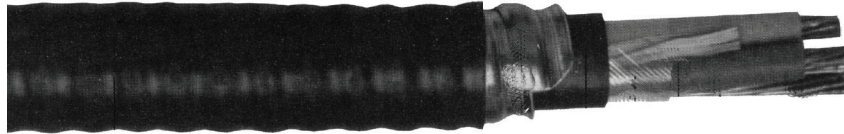
- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK $\sqrt{\sqrt{}}$ AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Options:

- Galvanized Steel Interlocked Armor (GSIA)



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 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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

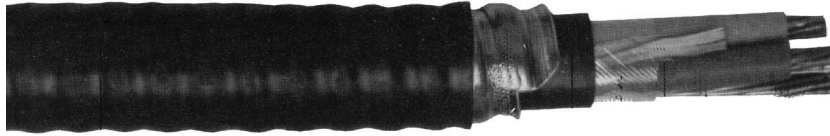
CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** (30° C AMBIENT)
				INSULATION		ARMOR		CABLE		LBS/ 1000 FT	kg/ km	LBS/1000 FT		kg/km		
				INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	
14 AWG—MULTI-CONDUCTOR—30 MILS INS. (.76 mm), 600 V																
780220	2	14	14	0.13	3.4	0.61	15.5	0.70	17.7	38	57	192	310	286	462	25
780250	3	14	14	0.13	3.4	0.64	16.2	0.73	18.5	51	75	218	346	324	515	25
780280	4	14	14	0.13	3.4	0.68	17.2	0.77	19.5	63	94	247	385	367	573	25
794540	5	14	14	0.13	3.4	0.70	17.9	0.79	20.1	76	113	270	430	402	640	20
792940	6	14	14	0.13	3.4	0.77	19.5	0.86	21.8	89	132	316	464	470	691	20
780310	7	14	14	0.13	3.4	0.81	20.5	0.89	22.7	101	151	351	490	522	729	17.5
330090	8	14	14	0.13	3.4	0.82	20.9	0.91	23.1	114	170	375	537	557	799	17.5
792960	10	14	14	0.13	3.4	0.91	23.2	1.00	25.4	139	208	443	637	660	948	17.5
792980	12	14	14	0.13	3.4	0.93	23.7	1.02	25.9	165	245	477	702	710	1045	17.5
793000	15	14	14	0.13	3.4	1.03	26.1	1.11	28.3	203	302	607	791	903	1177	17.5
780290	20	14	14	0.13	3.4	1.15	29.2	1.24	31.5	266	396	773	1117	1151	1662	17.5
308190*	25	14	14	0.13	3.4	1.24	31.6	1.33	33.8	330	491	904	1315	1345	1957	15
333750*	30	14	14	0.13	3.4	1.30	33.0	1.39	35.2	393	585	1003	1390	1493	2069	15
330280*	40	14	14	0.13	3.4	1.42	36.0	1.51	38.2	520	774	1225	1649	1822	2454	15
299980*	50	14	14	0.13	3.4	1.57	39.8	1.68	42.5	647	962	1486	1916	2211	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**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, white, red and blue; 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 $\sqrt{V}$ ® AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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	0.65	16.4	0.73	18.6	53	79	219	345	326	514	30
780240	3	12	14	0.15	3.9	0.67	17.1	0.76	19.4	73	109	252	385	375	573	30
780320	4	12	14	0.15	3.9	0.72	18.3	0.81	20.5	93	139	290	434	432	646	30
312910	5	12	14	0.15	3.9	0.75	19.1	0.84	21.3	113	169	326	477	485	710	24
331190*	6	12	14	0.15	3.9	0.83	21.2	0.92	23.4	134	199	395	565	587	840	24
315020*	7	12	14	0.15	3.9	0.86	21.9	0.95	24.1	154	229	422	599	628	891	21
311560*	8	12	14	0.15	3.9	0.88	22.4	0.97	24.6	174	259	458	639	681	951	21
304030*	10	12	14	0.15	3.9	0.98	24.9	1.07	27.1	214	319	549	753	816	1120	21
331130*	12	12	14	0.15	3.9	1.03	26.1	1.12	28.3	255	379	653	962	971	1431	21
312990*	15	12	14	0.15	3.9	1.16	29.3	1.24	31.6	315	469	808	1161	1203	1727	21
299950*	20	12	14	0.15	3.9	1.25	31.7	1.34	33.9	416	619	976	1360	1453	2024	21
307470*	25	12	14	0.15	3.9	1.35	34.2	1.43	36.4	517	769	1144	1562	1702	2324	18
318730*	30	12	14	0.15	3.9	1.42	35.9	1.51	38.2	617	919	1320	1735	1964	2582	18
346880*	40	12	14	0.15	3.9	1.54	39.1	1.64	41.7	819	1219	1725	2185	2567	3252	18
346890*	50	12	14	0.15	3.9	1.67	42.4	1.77	45.0	1021	1519	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, white, red and blue; 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:

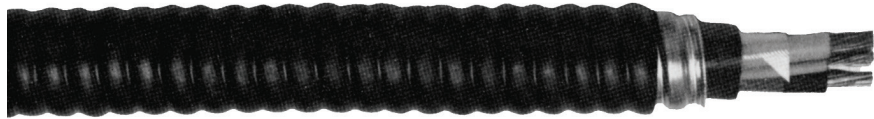
- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK $\sqrt{V}$ AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black



Options:

- Galvanized Steel Interlocked Armor (GSIA)

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 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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	0.90	22.9	0.99	25.1	217	323	497	683	740	1016	32
346870*	7	10	12	0.18	4.5	0.90	22.9	0.99	25.1	249	371	533	719	794	1070	28
318740*	8	10	12	0.18	4.5	0.96	24.4	1.05	26.6	282	420	596	795	886	1183	28
311570*	10	10	12	0.18	4.5	1.15	29.1	1.23	31.3	348	517	823	1172	1225	1744	28
317890*	12	10	12	0.18	4.5	1.15	29.2	1.23	31.2	413	615	916	1276	1363	1899	28
318750*	15	10	12	0.18	4.5	1.22	31.0	1.30	33.0	511	760	1084	1481	1613	2204	28
308180*	20	10	12	0.18	4.5	1.37	34.9	1.46	37.1	675	1004	1302	1730	1938	2574	28
307450*	25	10	12	0.18	4.5	1.47	37.3	1.55	39.4	838	1247	1612	2099	2399	3123	24
293570*	30	10	12	0.18	4.5	1.55	39.4	1.65	41.9	1002	1490	1814	2312	2700	3440	24
307460*	40	10	12	0.18	4.5	1.71	43.4	1.81	46.0	1329	1977	2278	2837	3390	4221	24
346900*	50	10	12	0.18	4.5	1.87	47.5	1.97	50.0	1656	2464	2820	3557	4196	5293	20

Dimensions and weights are nominal; subject to industry tolerances.

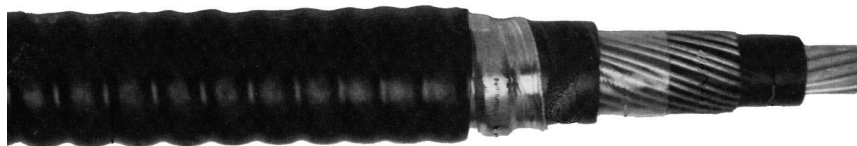
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

** 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 $\sqrt{\text{V}}$ ® AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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						
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/km	
6 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—1000 V																
11288.040600*	1	6	8	0.060	1.52	0.31	7.8	0.68	17.3	0.77	19.6	137	204	320	470	105
11288.050400*	1	4	6	0.060	1.52	0.35	8.8	0.73	18.6	0.81	20.6	211	314	410	610	140
11288.030300*	1	3	6	0.060	1.52	0.38	9.8	0.76	19.3	0.84	21.4	244	363	450	680	165
11288.050200*	1	2	6	0.060	1.52	0.42	10.5	0.78	19.8	0.87	22.1	286	426	510	760	190
11288.050100*	1	1	4	0.080	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	0.080	2.03	0.51	12.95	0.92	23.5	1.02	25.9	464	690	770	1145	260
11288.035200*	1	2/0	4	0.080	2.03	0.58	14.7	0.95	24.1	1.04	26.4	544	809	860	1280	300
11288.035300*	1	3/0	3	0.080	2.03	0.60	15.24	1.06	27.0	1.16	29.5	694	1033	1074	1598	350
11288.025400*	1	4/0	3	0.080	2.03	0.65	16.54	1.12	28.3	1.21	30.8	832	1238	1231	1831	405
11288.026000*	1	250	2	0.090	2.29	0.71	17.98	1.21	30.6	1.29	32.8	996	1483	1778	2646	455
11288.036200*	1	350	1	0.090	2.29	0.80	20.42	1.34	34.0	1.43	36.2	1366	2032	2182	3247	570
11288.026500*	1	500	1/0	0.090	2.29	0.92	23.47	1.46	37.0	1.54	39.2	1905	2835	2778	4134	700
11288.027000*	1	750	2/0	0.090	2.29	1.10	27.84	1.69	43.0	1.80	45.7	2782	4139	3907	5814	885
11288.027500*	1	1000	2/0	0.090	2.29	1.25	31.72	1.85	46.9	1.96	49.7	3567	5308	4404	6554	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 $\sqrt{V}^*$ AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Options:

- Galvanized Steel Interlocked Armor (GSIA)



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 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

Packaging:

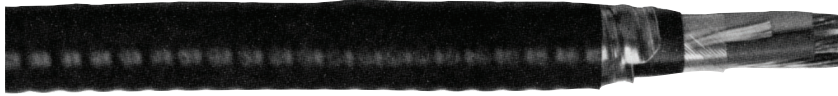
- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. 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								
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/1000 FT		kg/km		
														AL	STEEL	AL	STEEL	
14 AWG THRU 1000 kcmil—TWO CONDUCTOR—1000 V																		
794520*	2	14	14	0.045	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	0.045	1.14	0.18	4.6	0.71	18.0	0.80	20.3	54	80	245	386	364	574	30
793140*	2	10	12	0.045	1.14	0.21	5.3	0.76	19.3	0.85	21.5	86	128	293	446	436	663	40
331260*	2	8	10	0.045	1.14	0.24	6.0	0.85	21.5	0.94	23.8	137	203	390	564	581	839	55
11206.332083*	2	6	8	0.060	1.52	0.29	7.4	0.96	24.4	1.05	26.7	217	323	522	729	777	1085	75
11288.040400*	2	4	8	0.060	1.52	0.34	8.6	1.06	26.9	1.15	29.1	315	469	722	1019	1074	1516	95
11288.220300*	2	3	6	0.060	1.52	0.38	9.7	1.15	29.2	1.23	31.2	415	618	905	1239	1347	1844	115
11288.040200*	2	2	6	0.060	1.52	0.42	10.7	1.20	30.5	1.28	32.5	502	747	1030	1380	1533	2053	130
11288.020100*	2	1	6	0.080	2.03	0.47	11.9	1.36	34.5	1.45	36.8	611	909	1189	1582	1769	2353	145
11288.045100*	2	1/0	6	0.080	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	0.080	2.03	0.58	14.7	1.50	38.1	1.58	40.1	922	1372	1660	2107	2470	3135	195
11288.045300*	2	3/0	4	0.080	2.03	0.60	15.2	1.66	42.2	1.77	45.1	1188	1768	1924	2487	2862	3701	225
11288.145400*	2	4/0	4	0.080	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	0.090	2.29	0.75	19.1	1.84	46.7	1.93	49.0	1709	2543	2779	3332	4135	4958	290
11288.226200*	2	350	3	0.090	2.29	0.86	21.8	2.09	53.1	2.18	55.4	2373	3561	3650	4285	5431	6376	350
11288.226500*	2	500	3	0.090	2.29	0.99	25.1	2.33	59.2	2.45	62.2	3316	4935	4895	5607	7284	8343	430
11288.227000*	2	750	2	0.090	2.29	1.16	29.5	2.67	67.8	2.79	70.9	4941	7353	6872	7695	10226	11450	535
11288.227500*	2	1000	1	0.090	2.29	1.31	33.3	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.

TECK90XLPE/PVC/AIA/PVC, Control and Power, Armored 1000 V
CSA TECK90, Three 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 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 $\sqrt{V}^{\circ}$ AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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 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 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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								
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/1000 FT		kg/km		
														AL	STEEL	AL	STEEL	
14 AWG THRU 1000 kcmil—THREE CONDUCTOR—1000 V																		
330520*	3	14	14	0.045	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	0.045	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	0.045	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	0.045	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	0.060	1.52	0.30	7.5	1.01	25.8	1.10	28.0	300	446	872	1155	1297	1718	75
11288.010400	3	4	8	0.060	1.52	0.34	8.6	1.15	29.2	1.24	31.5	447	665	918	1244	1365	1851	95
11288.010300	3	3	6	0.060	1.52	0.37	9.3	1.21	30.7	1.31	33.1	580	863	1087	1432	1618	2131	115
11288.010200	3	2	6	0.060	1.52	0.40	10.0	1.27	32.3	1.36	34.5	710	1056	1239	1604	1844	2386	130
11288.010100	3	1	6	0.080	2.03	0.47	11.9	1.43	36.3	1.52	38.6	875	1302	1518	1933	2259	2877	145
11288.015100	3	1/0	6	0.080	2.03	0.51	12.8	1.55	39.3	1.65	42.0	1080	1607	1806	2281	2687	3394	170
11288.015200	3	2/0	6	0.080	2.03	0.55	13.9	1.64	41.7	1.75	44.3	1340	1994	2124	2631	3161	3915	195
11288.015300	3	3/0	4	0.080	2.03	0.60	15.1	1.74	44.2	1.85	46.9	1717	2554	2543	3085	3784	4590	225
11288.015400	3	4/0	4	0.080	2.03	0.64	16.3	1.84	46.8	1.95	49.5	2130	3169	3039	3679	4522	5474	260
11288.016000	3	250	4	0.090	2.29	0.71	17.9	2.04	51.9	2.15	54.6	2494	3711	3661	4377	5447	6512	290
11288.016200	3	350	3	0.090	2.29	0.80	20.3	2.24	57.0	2.38	60.3	3471	5164	4775	5566	7104	8283	350
11288.016500	3	500	3	0.090	2.29	0.92	23.4	2.51	63.6	2.64	67.0	4884	7268	6361	7253	9465	10792	430
11270.891327	3	750	2	0.090	2.29	1.10	27.8	2.88	73.2	3.01	76.5	7296	10857	8977	10012	13358	14898	535
11288.017500*	3	1000	1	0.090	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.



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:

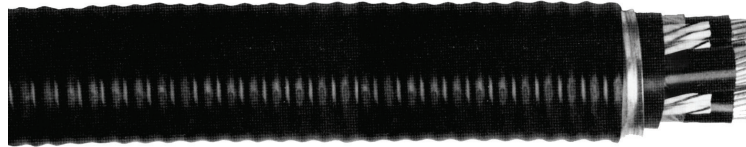
- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK $\sqrt{\sqrt{}}$ AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Options:

- Galvanized Steel Interlocked Armor (GSIA)



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 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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	AL	STEEL	
				14 AWG THRU 1000 kcmil—FOUR CONDUCTOR—1000 V														
321940*	4	14	14	0.045	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	0.045	1.14	0.18	4.6	0.82	20.8	0.91	23.0	95	142	347	513	517	764	30
793160*	4	10	12	0.045	1.14	0.21	5.3	0.88	22.2	0.96	24.5	151	225	427	606	635	902	40
331250	4	8	10	0.045	1.14	0.24	6.0	0.98	24.8	1.06	27.0	241	358	594	868	884	1291	55
11288.030600	4	6	8	0.060	1.52	0.29	7.4	1.16	29.4	1.25	31.7	382	569	898	1255	1337	1867	75
11288.020400	4	4	8	0.060	1.52	0.34	8.6	1.24	31.5	1.33	33.7	578	861	1106	1460	1646	2173	95
11288.020300	4	3	6	0.060	1.52	0.37	9.3	1.30	33.1	1.39	35.4	746	1109	1302	1677	1937	2495	115
11288.020200	4	2	6	0.060	1.52	0.40	10.0	1.37	34.9	1.46	37.1	919	1367	1514	1911	2253	2844	130
11288.040100	4	1	6	0.080	2.03	0.47	11.9	1.59	40.4	1.70	43.1	1139	1695	1930	2420	2871	3601	145
11288.025100	4	1/0	6	0.080	2.03	0.51	12.8	1.68	42.6	1.79	45.3	1413	2102	2239	2759	3331	4105	170
11288.025200	4	2/0	6	0.080	2.03	0.55	13.9	1.78	45.3	1.89	48.0	1759	2618	2658	3214	3955	4782	195
11288.025300	4	3/0	4	0.080	2.03	0.60	15.1	1.90	48.2	2.00	50.9	2245	3341	3225	3884	4799	5780	225
11288.045400	4	4/0	4	0.080	2.03	0.64	16.3	2.08	52.7	2.18	55.4	2796	4160	3960	4688	5892	6975	260
11288.046000	4	250	4	0.090	2.29	0.71	17.9	2.23	56.5	2.33	59.2	3281	4883	4625	5410	6881	8050	290
11288.026200	4	350	3	0.090	2.29	0.80	20.3	2.45	62.3	2.58	65.6	4572	6803	6056	6927	9011	10307	350
11288.036500*	4	500	3	0.090	2.29	0.92	23.4	2.75	69.7	2.88	73.1	6457	9608	8159	9142	12140	13603	430
11288.057000*	4	750	2	0.090	2.29	1.16	29.4	3.24	82.3	3.42	86.9	9658	14232	12411	13683	18468	20360	535
11288.037500*	4	1000	1	0.090	2.29	1.31	33.2	3.65	92.7	3.84	97.6	9612	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.

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 $\sqrt{V}^{\circ}$ AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Options:

- Galvanized Steel Interlocked Armor (GSIA)

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 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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	1000 FT	kg/ km	AL	STEEL	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	0.030	0.76	0.15	3.9	0.78	19.8	0.86	21.8	75	170	356	519	530	789	30
311320*†	3	10	12	0.030	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	0.045	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	0.045	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	0.045	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	0.045	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	0.055	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	0.055	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	0.055	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	0.055	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	0.055	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

TRXLPE/PVC/AIA/PVC, Power, Unshielded, Armored 5 kV
CSA TECK90, 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:**
- Tree-Retardant Cross-linked Polyethylene (TRXLPE), Type RW90
 - Color-coded: Black with printed numbers

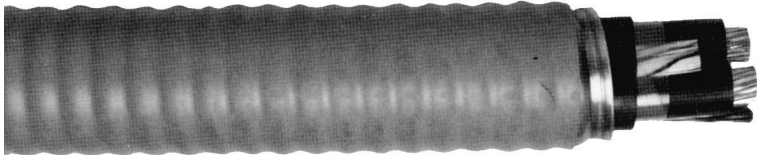
- Ground (Bonding) Conductor:**
- The conductor consists of one uninsulated stranded bare copper conductor

- 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 $\sqrt{v}$ ® AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

- Options:**
- Galvanized Steel Interlocked Armor (GSIA)



- 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 1202 (70,000 BTU/hr) CSA FT4

- Other Compliances:**
- Hazardous Location Rating: HL
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP method
 - OSHA Acceptable
 - RoHS Compliant

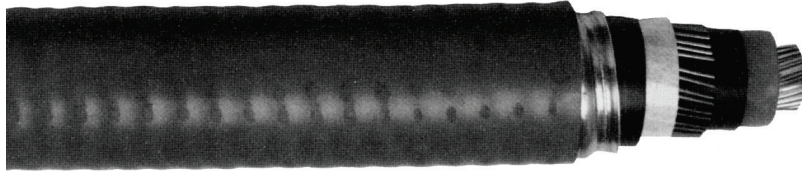
- Packaging:**
- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
 - For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess 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

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		
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	AL	STEEL	AL	STEEL	
6 AWG THRU 1000 kcmil—THREE CONDUCTOR—UNSHIELDED—90 MILS INS. (2.29 mm)—5 kV															
3	6	8	0.39	9.9	1.27	32.1	1.35	34.4	300	446	885	1248	1317	1857	75
3	4	8	0.44	11.0	1.36	34.5	1.45	36.8	447	665	1077	1469	1602	2186	95
3	3	6	0.46	11.7	1.42	36.1	1.52	38.6	583	868	1310	1780	1949	2649	115
3	2	6	0.49	12.5	1.48	37.6	1.57	39.8	710	1056	1409	1840	2097	2738	130
3	1	6	0.52	13.2	1.59	40.4	1.69	42.9	970	1443	1752	2230	2607	3318	145
3	1/0	6	0.56	14.2	1.67	42.3	1.77	45.0	875	1302	1914	2430	2847	3615	170
3	2/0	6	0.60	15.3	1.76	44.7	1.87	47.4	1340	1994	2237	2785	3329	4144	195
3	3/0	4	0.65	16.5	1.86	47.3	1.97	50.0	1717	2554	2695	3341	4010	4972	225
3	4/0	4	0.70	17.7	1.96	49.9	2.07	52.6	2130	3169	3165	3850	4709	5729	260
3	250	4	0.75	19.0	2.14	54.3	2.24	57.0	2494	3711	3771	4522	5611	6729	290
3	350	3	0.84	21.4	2.34	59.4	2.47	62.7	3471	5164	4891	5719	7278	8510	350
3	500	3	0.96	24.5	2.60	66.0	2.73	69.3	4884	7268	6489	7417	9656	11037	430
3	750	2	1.15	29.2	3.01	76.5	3.14	79.8	7224	10750	9469	11750	14090	17480	535
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% Ins. Level, 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 (TRXLPE)

Insulation Shield:

- Black 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 a grounding (bonding) conductor

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 γ/γ° flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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 C68.10 MV68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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

NO. OF COND.	COND. SIZE (AWG/ kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/AL ARMOR		OUTDOOR AMPACITY** (40 °C AMBIENT)
			INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE						
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	

**6 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—SHIELDED,
100% INS. LEVEL, 90 MILS INS. (2.29 mm)—5 kV**

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
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
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	198
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
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	255
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	291
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	327
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	373
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	417
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	491
1	500	1/0	0.97	24.7	1.03	26.2	1.33	33.9	1.62	41.2	1.74	44.3	1905	2835	2708	4030	562
1	750	2/0	1.15	29.2	1.21	30.7	1.54	39.1	1.83	46.6	1.95	49.6	2782	4139	3730	5550	642
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	740

Dimensions and weights are nominal; subject to industry tolerances.

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

**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).

Ampacity based on CE Code Table D17M and Rule 4-004.



HVTECK

TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored

5 kV (133% Ins. Level)/8 kV (100% Ins. Level)

115 Mils, CSA HVTECK, 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 (TRXLPE)

Insulation Shield:

- Black 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 a grounding (bonding) conductor

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 $\sqrt{v}$ ® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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
- 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 C68.10 MV68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

Packaging:

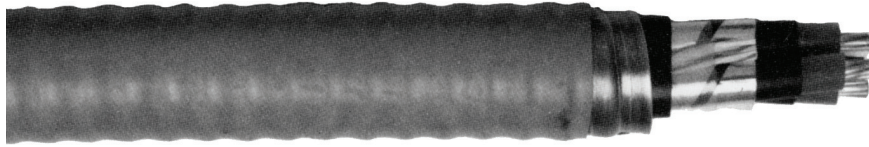
- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. 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

NO. OF COND	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/AL ARMOR		OUTDOOR AMPACITY** (40 °C AMBIENT)
			INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE						
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
6 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—SHIELDED, 133% INS. LEVEL, 115 MILS INS. (2.92 mm)—5 kV																	
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
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
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	198
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
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	255
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	291
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	327
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	373
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	417
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	491
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	562
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	642
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	740

Dimensions and weights are nominal; subject to industry tolerances.
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.
**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).
Ampacity based on CE Code Table D17M and Rule 4-004.

HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV
CSA HVTECK, 100% Ins. Level, 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 (TRXLPE)

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 γ/γ° flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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 C68.10 MV68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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

NO. OF COND.	COND. SIZE (AWG/ kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				OUTDOOR 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% INS. LEVEL, 90 MILS INS. (2.29 mm)—5 kV																			
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
3	4	8	0.45	11.3	0.51	12.8	1.28	32.6	1.53	38.9	1.65	42.0	447	665	1357	1804	2020	2684	122
3	2	6	0.50	12.8	0.56	14.3	1.41	35.8	1.70	43.1	1.82	46.2	710	1056	1737	2263	2585	3368	141
3	1	6	0.52	13.2	0.60	15.2	1.45	36.8	1.73	43.9	1.83	46.5	939	1397	1960	2486	2916	3699	161
3	1/0	6	0.57	14.4	0.63	16.0	1.55	39.4	1.84	46.7	1.96	49.8	875	1302	2248	2931	3344	4361	184
3	2/0	6	0.61	15.5	0.67	17.0	1.64	41.7	1.93	49.0	2.05	52.1	1340	1994	2563	3284	3814	4886	212
3	3/0	4	0.64	16.3	0.71	18.0	1.78	45.2	2.07	52.6	2.17	55.1	1798	2675	3210	3930	4776	5848	242
3	4/0	4	0.71	18.0	0.77	19.5	1.92	48.7	2.21	56.1	2.33	59.1	2130	3169	3626	4532	5395	6743	278
3	250	4	0.77	19.4	0.83	21.0	2.03	51.5	2.32	58.9	2.46	62.4	2494	3711	4155	5109	6182	7603	306
3	350	3	0.86	21.9	0.92	23.4	2.26	57.4	2.55	64.7	2.69	68.3	3471	5164	5276	6200	7850	9225	373
3	500	3	0.97	24.7	1.03	26.2	2.50	63.4	2.79	70.8	2.93	74.4	4884	7268	6825	7842	10156	11669	450
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	545
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	640

Dimensions and weights are nominal; subject to industry tolerances.

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

**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).

Ampacity based on CE Code Table D17N and Rule 4-004.

HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored
5 kV (133% Ins. Level)/8 kV (100% Ins. Level)
115 Mils, CSA HVTECK, 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 (TRXLPE)

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:

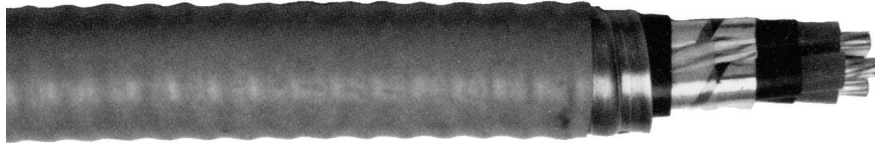
- The conductor consists of one uninsulated stranded bare copper conductor

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 $\sqrt{v}$ ® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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 C68.10 MV68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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

NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				OUTDOOR AMPACITY*** (40 °C AMBIENT)
			INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE				LBS/1000 FT		kg/km		
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	AL	STEEL	

**6 AWG THRU 1000 kcmil—THREE CONDUCTOR—SHIELDED, 133% INS. LEVEL,
115 MILS INS. (2.92 mm)—5 kV**

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
3	4	8	0.50	12.6	0.56	14.1	1.39	35.3	1.64	41.7	1.75	44.5	447	665	1508	2068	2244	3077	122
3	2	6	0.54	13.7	0.61	15.5	1.50	38.1	1.78	45.2	1.88	47.8	710	1056	1930	2489	2872	3704	141
3	1	6	0.57	14.5	0.64	16.3	1.57	39.9	1.86	47.2	1.96	49.8	939	1397	2150	2709	3199	4032	161
3	1/0	6	0.61	15.6	0.67	17.1	1.65	41.9	1.94	49.3	2.06	52.3	875	1302	2360	3047	3511	4534	184
3	2/0	6	0.65	16.5	0.72	18.3	1.80	45.7	2.09	53.1	2.19	55.6	1340	1994	2890	3578	4300	5324	212
3	3/0	4	0.70	17.8	0.76	19.3	1.90	48.3	2.19	55.6	2.29	58.2	1798	2675	3360	4048	5000	6023	242
3	4/0	4	0.76	19.2	0.82	20.7	1.99	50.5	2.28	57.9	2.39	60.7	2130	3169	3815	4620	5676	6875	278
3	250	4	0.81	20.6	0.87	22.1	2.15	54.6	2.44	62.0	2.58	65.6	2494	3711	4309	5237	6411	7793	306
3	350	3	0.90	22.9	0.96	24.4	2.31	58.7	2.60	66.1	2.73	69.4	3471	5164	5538	6466	8240	9622	373
3	500	3	1.02	25.9	1.08	27.4	2.60	66.0	2.89	73.4	3.03	76.9	4884	7268	6982	8038	10389	11960	450
3	750	2	1.19	30.2	1.25	31.7	2.98	75.7	3.27	83.1	3.42	86.9	7440	11071	10117.5	11301	15055	16815	545
3	1000	1	1.35	34.3	1.44	36.6	3.42	86.9	3.71	94.3	3.86	98.1	9860	14678	13300	14870	19790	22130	640

Dimensions and weights are nominal; subject to industry tolerances.

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

**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).

Ampacity based on CE Code Table D17N and 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 (TRXLPE)

Insulation Shield:

- Black 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 a grounding (bonding) conductor

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 γ/γ° flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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 C68.10 MV68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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

NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/AL ARMOR		OUTDOOR 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																	
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	198
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
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	255
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	291
1	3/0	3	0.81	20.7	0.87	22.2	1.18	30.0	1.43	36.4	1.53	38.8	694	1033	1441	2144	327
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	373
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	417
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	491
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	562
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	642
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	740

Dimensions and weights are nominal; subject to industry tolerances.

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

**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

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 (TRXLPE)

Insulation Shield:

- Black 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 a grounding (bonding) conductor

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 $\sqrt{\sqrt{}}$ flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red



Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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 C68.10 MV68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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

NO. OF COND.	COND. SIZE (AWG/ kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/AL ARMOR		OUTDOOR AMPACITY** (40° C AMBIENT)
			INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE						
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
2 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—133% INS. LEVELS, 220 MILS INS. (5.59 mm)—15 kV																	
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	198
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
1	1/0	4	0.82	20.8	0.88	22.3	1.18	30.0	1.43	36.3	1.53	38.8	464	691	1258	1872	255
1	2/0	4	0.86	21.8	0.92	23.3	1.22	30.9	1.47	37.3	1.56	39.5	551	820	1343	1999	291
1	3/0	3	0.91	23.0	0.97	24.5	1.27	32.2	1.52	38.5	1.61	41.0	694	1033	1525	2270	327
1	4/0	3	0.96	24.4	1.02	25.9	1.32	33.6	1.61	40.9	1.73	44.0	832	1238	1763	2623	373
1	250	2	1.02	25.9	1.08	27.4	1.38	35.1	1.66	42.2	1.76	44.7	989	1472	2010	2991	417
1	350	1	1.11	28.2	1.17	29.7	1.49	37.9	1.78	45.2	1.90	48.3	1366	2032	2444	3636	491
1	500	1/0	1.22	31.0	1.28	32.6	1.58	40.2	1.87	47.6	1.99	50.6	1905	2835	3052	4542	562
1	750	2/0	1.40	35.5	1.46	37.1	1.85	47.1	2.14	54.4	2.26	57.5	2782	4139	4191	6236	642
1	1000	2/0	1.57	39.8	1.63	41.3	2.07	52.6	2.36	60.0	2.50	63.6	3567	5308	5305	7894	740

Dimensions and weights are nominal; subject to industry tolerances.

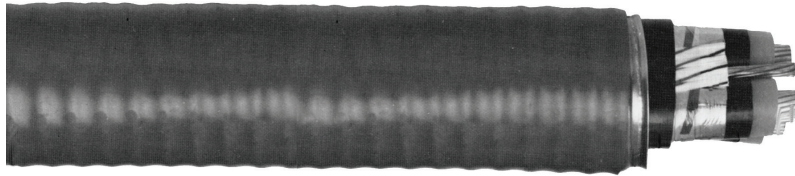
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**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/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 (TRXLPE)

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 $\sqrt{v}$ ® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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 C68.10 MV68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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

NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				OUTDOOR AMPACITY** (40° C AMBIENT)
			INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE								
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/ km	AL	STEEL	AL	STEEL	
2 AWG THRU 1000 kcmil—THREE CONDUCTOR—100% INS. LEVELS, 175 MILS INS. (4.45 mm)—15 kV																			
3	2	6	0.66	16.8	0.72	18.3	1.83	46.4	2.12	53.7	2.24	56.8	710	1056	2358	3113	3508	4633	141
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	3376	3899	5023	161
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	3656	4315	5440	184
3	2/0	6	0.77	19.5	0.828	21.3	2.06	52.3	2.35	59.5	2.49	62.5	1340	1994	3199	4089	4760	6085	212
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	242
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	278
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	306
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	373
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	450
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	545
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	640

Dimensions and weights are nominal; subject to industry tolerances.

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

**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

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 (TRXLPE)

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:

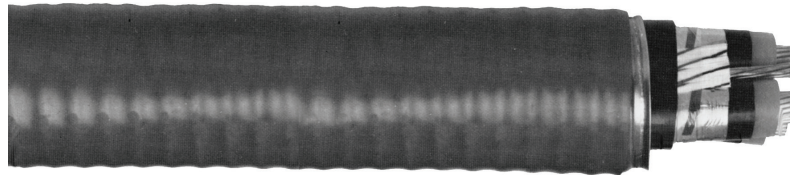
- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Armor:

- Aluminum Interlocked Armor (AIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK $\sqrt{v}$ ® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red



Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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 C68.10 MV68.10

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
- RoHS Compliant

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

NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				OUTDOOR AMPACITY** (40° C AMBIENT)
			INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE				LBS/1000 FT		kg/km		
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	AL	STEEL	AL	STEEL	
			2 AWG THRU 750 kcmil—THREE CONDUCTOR—133% INS. LEVEL, 220 MILS INS. (5.59 mm)—15 kV																
3	2	6	0.75	19.1	0.81	20.6	2.02	51.4	2.31	58.8	2.42	61.5	710	1056	2618	3451	3896	5136	141
3	1	6	0.78	19.9	0.84	21.4	2.06	52.2	2.35	59.6	2.46	62.4	875	1302	2702	3533	4021	5258	161
3	1/0	6	0.82	20.8	0.88	22.3	2.17	55.0	2.46	62.4	2.60	66.0	1080	1607	3228	4285	4803	6377	184
3	2/0	6	0.86	21.8	0.92	23.4	2.22	56.3	2.51	63.7	2.64	67.0	1340	1994	3555	4447	5289	6617	212
3	3/0	4	0.91	23.1	0.98	24.9	2.36	59.9	2.65	67.3	2.77	70.4	1717	2554	4140	5230	6160	7782	242
3	4/0	4	0.96	24.4	1.03	26.2	2.47	62.7	2.76	70.1	2.88	73.2	2130	3169	4680	5810	6964	8645	278
3	250	4	1.02	25.8	1.08	27.3	2.58	65.5	2.87	72.9	3.01	76.5	2494	3711	4960	6008	7380	8940	306
3	350	3	1.11	28.1	1.25	31.6	2.75	69.9	3.04	77.3	3.17	80.6	3471	5164	6296	7393	9369	11000	373
3	500	3	1.22	31.0	1.28	32.6	3.05	77.6	3.34	84.9	3.50	88.8	4884	7268	8213	9424	12221	14023	450
3	750	2	1.39	35.4	1.45	36.9	3.48	88.4	3.77	95.7	3.94	100.1	7296	10857	10763	11974	16015	17817	545

Dimensions and weights are nominal; subject to industry tolerances.

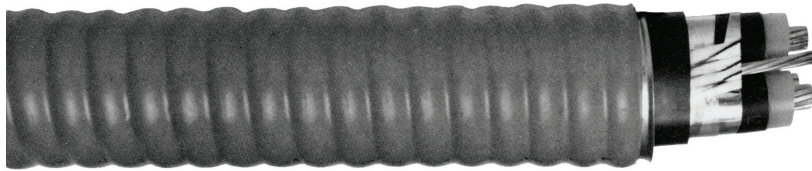
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**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 (TRXLPE)

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 $\sqrt{\sqrt{}}$ flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black or as requested

Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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 C68.10 MV68.10

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
- RoHS Compliant

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

NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				OUTDOOR AMPACITY** (40° C AMBIENT)
			INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE				LBS/1000 FT		kg/km		
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	1000 FT	kg/km	AL	STEEL	AL	STEEL	
1 AWG THRU 500 kcmil—THREE CONDUCTOR—100% INS. LEVEL, 260 MILS INS. (6.60 mm)—25 kV																			
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	164
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	187
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	215
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	245
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	281
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	310
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	377
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	454

Dimensions and weights are nominal; subject to industry tolerances.

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

**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

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 (TRXLPE)

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:

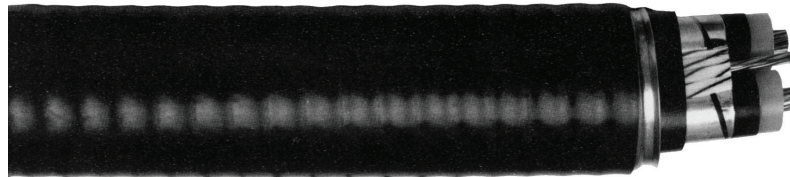
- The conductor consists of one uninsulated stranded bare copper conductor

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 $\sqrt{\sqrt{}}$ flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black or as requested

Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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 C68.10 MV68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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

NO. OF COND.	COND. SIZE (AWG/ kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				OUTDOOR AMPACITY** (40° C AMBIENT)
			INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE								
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/1000 FT	AL	STEEL	AL	
1 AWG THRU 350 kcmil—THREE CONDUCTOR—133% INS. LEVEL, 320 MILS INS. (8.13 mm)—25 kV																			
3	1	6	0.99	25.2	1.05	26.7	2.54	64.5	2.83	71.9	2.97	75.4	875	1302	3460	4492	5148	6684	164
3	1/0	6	1.03	26.1	1.09	27.6	2.62	66.4	2.91	73.8	3.05	77.4	1080	1607	3753	4815	5584	7165	187
3	2/0	6	1.07	27.2	1.16	29.5	2.74	69.6	3.03	77.0	3.15	80.0	1340	2173	4490	5740	6680	8540	215
3	3/0	4	1.12	28.5	1.21	30.8	2.91	73.9	3.19	81.1	3.33	84.6	1717	2741	5270	6600	7840	9820	245
3	4/0	4	1.17	29.8	1.26	32.0	3.02	76.7	3.31	84.1	3.44	87.4	2130	3365	5840	7220	8700	10740	281
3	250	4	1.22	30.9	1.31	33.2	3.15	80.0	3.43	87.1	3.58	90.9	2494	3912	6440	7880	9590	11720	310
3	350	3	1.37	34.8	1.45	36.9	3.44	87.4	3.73	94.8	3.88	98.6	3471	5380	7720	9250	11490	13770	377

Dimensions and weights are nominal; subject to industry tolerances.

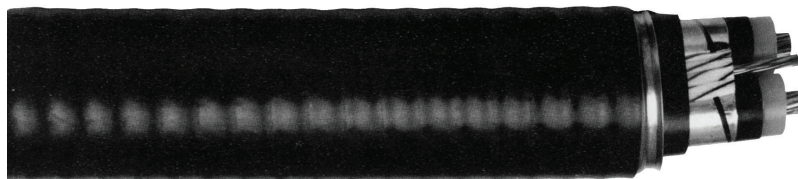
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**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 (133% Ins. Level) / 35 kV (100% Ins. Level)
345 Mils, CSA HVTECK, Three Conductor

**Product Construction:****Conductor:**

- 1/0 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 (TRXLPE)

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 $\sqrt{V}$ flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black or as requested

Options:

- 105°C TRXLPE Insulation
- Galvanized Steel Interlocked Armor (GSIA)

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 C68.10 MV68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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

NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				OUTDOOR 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	
1/0 AWG THRU 350 kcmil—THREE CONDUCTOR— 28 kV (133% INS. LEVEL) / 35 kV (100% INS. LEVEL), 345 MILS INS. (8.76 mm)																			
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	187
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	215
3	3/0	4	1.16	29.7	1.22	32.0	2.96	76.7	3.25	84.1	3.42	87.9	1717	2750	5047	6243	8160	10210	245
3	4/0	4	1.22	31.0	1.31	33.3	3.14	79.6	3.43	87.2	3.58	90.9	2130	3369	6090	7510	9060	11180	281
3	250	4	1.27	32.3	1.37	34.8	3.26	82.9	3.55	90.2	3.70	94.0	2494	3921	6660	8140	9910	12120	310
3	350	3	1.42	36.1	1.51	38.4	3.56	90.5	3.85	97.8	4.00	101.6	3471	5389	7960	9540	11840	14190	377

Dimensions and weights are nominal; subject to industry tolerances.

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

**Ampacities at other voltage levels do not vary significantly.

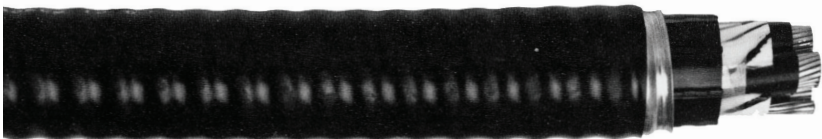
Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).

HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored 35kV
CSA HVTECK, 133% Ins. Level, 420 Mils, Three Conductor

Product Construction:

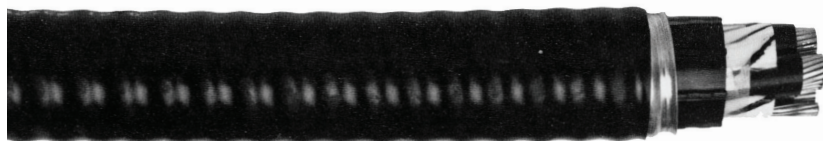
- Conductor:**
 - 1/0 AWG thru 350 kcmil bare copper compact Class B strand
- Strand Shield:**
 - A thermoset semi-conducting strand shield is extruded over the conductor
- Insulation:**
 - Tree-Retardant Cross-linked Polyethylene (TRXLPE)
- Insulation Shield:**
 - This consists of a semi-conducting 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 $\sqrt{V}$ ® flameretardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black or as requested



- Options:**
 - 105°C TRXLPE Insulation
 - Galvanized Steel Interlocked Armor (GSIA)
- 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 laddertype 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:**
 - CSA Standard C68.10 MV68.10
- Flame Test Compliances:**
 - CSA FT1 and FT4
 - IEEE 1202 (70,000 BTU/hr) CSA FT4
- Other Compliances:**
 - Hazardous Location Rating: HL
 - EPA 40 CFR, Part 261 for leachable lead content per TCLP method
 - OSHA Acceptable
 - RoHS Compliant
- 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

NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)										COPPER WEIGHT		NET WEIGHT W/ARMOR				OUTDOOR AMPACITY** (40° C AMBIENT)	
			INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE				LBS/1000 FT		kg/km			
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	AL	STEEL		AL
1/0 AWG THRU 350 kcmil—THREE CONDUCTOR— 28 kV (133% INS. LEVEL) / 35 kV (100% INS. LEVEL), 345 MILS INS. (8.76 mm)																				
3	1/0	6	1.24	31.5	1.30	33.0	3.09	78.4	3.38	85.7	3.53	89.6	1300	1935	4710	6070	7009	9033	187	
3	2/0	6	1.28	32.5	1.34	34.0	3.17	80.6	3.46	87.9	3.61	91.8	1580	2351	5350	6780	7962	10090	215	
3	3/0	4	1.33	33.8	1.39	35.3	3.28	83.3	3.57	90.7	3.72	94.5	1850	2753	5450	6740	8110	10030	245	
3	4/0	4	1.38	35.1	1.44	36.6	3.39	86.0	3.68	93.4	3.83	97.3	2300	3423	6580	8110	9792	12069	281	
3	250	4	1.44	36.6	1.50	38.1	3.52	89.3	3.81	96.7	3.96	100.5	2690	4003	7190	8790	10700	13081	310	
3	350	3	1.53	38.9	1.59	40.4	3.71	94.2	4.00	101.6	4.15	105.4	3750	5581	8600	10300	12798	15328	377	

Dimensions and weights are nominal; subject to industry tolerances.
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.
** 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® TECK90XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored 1 kV
CSA TECK90, Three Conductor**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 $\sqrt{V}^{\text{®}}$ AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

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

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

Compliances:**Industry Compliances:**

- CSA Standard C22.2 No. 131 and No. 174

Flame Test Compliances:

- CSA FT1 and FT4
- UL 1581 (70,000 BTU/hr)

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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							
				IN	mm	IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	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	170	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	195	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	225	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	260	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	290	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	350	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	430	***
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	535	***
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	615	***

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

TRXLPE/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:

- Tree-Retardant Cross-linked Polyethylene (TRXLPE), 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:

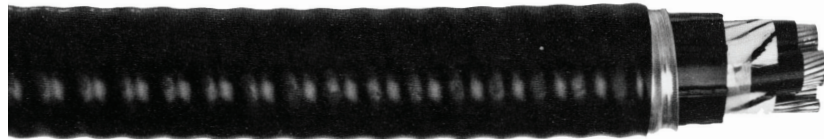
- Galvanized Steel Interlocked Armor (GSIA)

Jacket:

- Lead-free, ACID-FLAME-CHECK $\sqrt{v}$ ® AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

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)



Applications (cont'd):

- 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 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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							
				INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km		
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	170	200
17497.055200*	3	2/0	6	0.60	15.3	1.97	50.0	2.09	53.1	1340	1994	3270	4865	195	221
17497.055300*	3	3/0	4	0.65	16.4	1.97	50.0	2.07	52.6	1720	2560	3550	5280	225	240
17497.055400*	3	4/0	4	0.70	17.8	2.08	52.9	2.18	55.4	2315	3445	4290	6380	260	249
17497.056000*	3	250	4	0.75	19.1	2.25	57.2	2.35	59.7	2469	3674	4990	7430	290	251
17497.056200*	3	350	3	0.85	21.8	2.46	62.5	2.59	65.8	3476	5173	6340	9430	350	278
17497.056500*	3	500	2	0.98	24.9	2.72	69.1	2.85	72.4	4837	7198	8130	12100	430	230

Dimensions and weight are nominal; subject to industry tolerances.

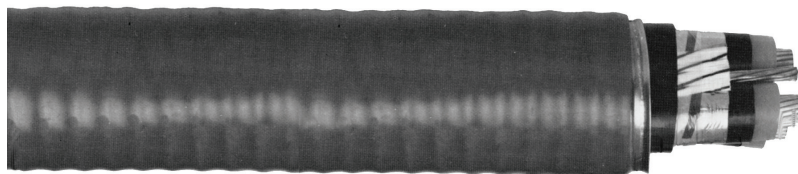
*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**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 (TRXLPE)

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 $\sqrt{V}$ ® AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Options:

- 105°C TRXLPE Insulation

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

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

Compliances:**Industry Compliances:**

- CSA Standard C68.10 MV68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 1202 (70,000 BTU/hr) CSA FT4

Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

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

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						
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km	

2 AWG THRU 750 kcmil—THREE CONDUCTOR—133% INS. LEVEL, 220 MILS INS. (5.59 mm)—15 kV

3	2	6	0.76	19.3	0.82	20.8	2.50	63.5	2.66	67.6	862	1283	4138	6157	85
3	1	6	0.79	20.1	0.85	21.6	2.57	65.3	2.73	69.3	1034	1539	4424	6583	100
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
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
3	3/0	4	0.91	23.0	0.97	24.5	2.81	71.3	2.94	74.7	1717	2554	4993	7430	155
3	4/0	4	0.96	24.3	1.02	25.8	2.92	74.1	3.05	77.5	2130	3169	5752	8558	176
3	250	4	1.02	25.8	1.08	27.3	3.05	77.4	3.20	81.2	2494	3711	6410	9538	188
3	350	3	1.12	28.4	1.18	30.0	3.36	85.3	3.54	89.9	3692	5494	8674	12907	215
3	500	3	1.23	31.2	1.30	33.0	3.62	91.9	3.80	96.5	5218	7764	10646	15841	250
3	750	2	1.42	36.0	1.49	37.9	3.89	98.8	4.05	102.9	7296	10857	13728	20427	277

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.



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 (TRXLPE)

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:

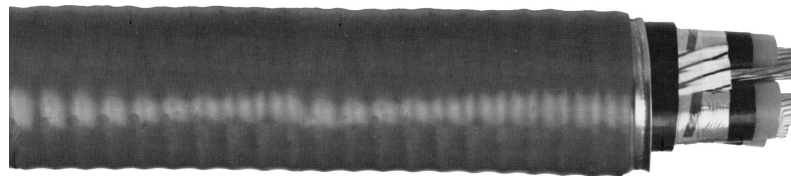
- Galvanized Steel Interlocked Armor (GSIA)

Overall Jacket:

- Lead-free, ACID-FLAME-CHECK $\sqrt{V}$ ® AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Options:

- 105°C TRXLPE Insulation



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 C68.10 MV68.10

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
- RoHS Compliant

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						
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km	
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.

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

SPECIFICATION NUMBER	PRODUCT DESCRIPTION	REVISION DATE	PAGE NUMBER
9325 CCW® Armor	600 V Instrumentation, Pairs/Triads, Overall Shield (OS) UL Type MC-HL, PVC/Nylon, 90°C, ABS CWCMC	Feb 2025	106-107
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 2025	108-109
9500 CCW® Armor	600 V or 1000 V Control With Grounding Conductor UL Type MC-HL, CSA Type HL, XLPE, 90°C, ABS CWCMC	Feb 2025	110-111
9510 CCW® Armor	600 V or 1000 V Control With Bare Grounding Conductor UL Type MC-HL, CSA Type HL, XLPE, 90°C, ABS CWCMC	Feb 2025	112-113
9525 CCW® Armor	600 V or 1000 V Control Without Grounding Conductor UL Type MC, CSA Type HL, XLPE, 90°C, ABS CWCMC	Feb 2025	114-115
9600 CCW® Armor	600 V or 1000 V Power, 3/C VFD and 4/C UL Type MC-HL, CSA Type HL, XLPE, 90°C, ABS CWCMC	Feb 2025	116-117
9615 CCW® Armor	2000 V Power, 3/C VFD UL Type MC-HL, XLPE, 90°C, ABS CWCMC	Feb 2025	118-119
9675 CCW® Armor	1000 V Power, 3/C VFD CSA Type RA90, HL, XLPE, 90°C	Feb 2025	120-121
9700 CCW® Armor	2.4 kV Power, Nonshielded, 3/C VFD UL Type MC-HL or MV-90, EPR, 105°C, ABS CWCMC	Feb 2025	122-123
9800 CCW® Armor	5 kV 133%/8 kV 100% Power, Shielded, 3/C VFD UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025	124-125
9815 CCW® Armor	8 kV 133% Power, Shielded, 3/C VFD UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025	126-127
9825 CCW® Armor	15 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025	128-129
9835 CCW® Armor	15 kV 133% Power, Shielded, 3/C UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025	130-131
9845 CCW® Armor	25 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025	132-133
9855 CCW® Armor	25 kV 133%/35 kV 100% Power, Shielded, 3/C UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025	134-135
9875 CCW® Armor	35 kV 133% Power, Shielded, 3/C UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, ABS CWCMC	Feb 2025	136-137

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 bend and cold impact at -40C

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/CSA C22.2 No. 245 Marine Shipboard Cable

Flame Tests:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MC-HL, CT USE, SUN RES, DIR BUR, -40°C, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- RoHS Compliant

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	IN	mm	IN	mm	mils	mm	IN	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	0.38	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	0.44	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	0.66	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	0.95	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	1.19	706	1051
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	1.74	969	1442

16 AWG 7W (1.31 mm²) OVERALL SHIELDED PAIRS

9325.16010001	16	1	19	0.48	40	1.02	0.29	7.3	0.45	11.5	50	1.27	0.56	14.2	0.24	169	251
9325.16020001	16	2	19	0.48	40	1.02	0.42	10.7	0.60	15.2	50	1.27	0.71	17.9	0.39	240	357
9325.16040001	16	4	19	0.48	40	1.02	0.49	12.4	0.70	17.9	50	1.27	0.81	20.5	0.51	318	473
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	0.65	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	0.79	466	693
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	1.00	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	1.08	604	899
9325.16160001	16	16	19	0.48	50	1.27	0.88	22.4	1.12	28.5	50	1.27	1.23	31.2	1.18	756	1125
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	1.54	929	1383
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	1.72	1040	1548
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	2.49	1445	2150
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	3.02	1897	2823

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	IN	mm	IN	mm	mils	mm	IN	mm		LBS/1000 FT	kg/1000 m

16 AWG 7W (1.31 mm²) OVERALL SHIELDED TRIADS

9325.16010002	16	1	19	0.48	40	1.02	0.33	8.4	0.51	13.0	50	1.27	0.61	15.6	0.30	203	301
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	0.53	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	0.85	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	1.17	897	1335
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	1.33	1161	1728
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	1.96	1581	2353
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	2.75	2142	3188

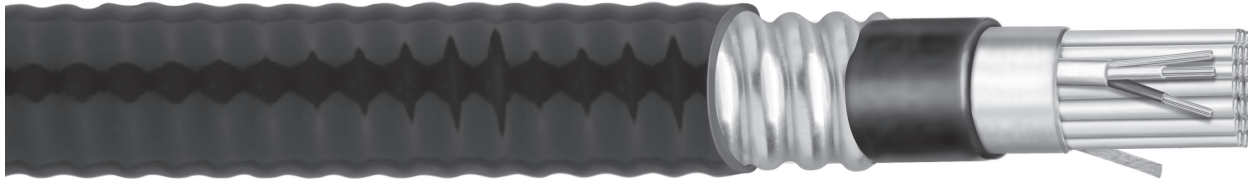
Dimensions and weights are nominal; subject to industry tolerances.

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 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 bend and cold impact at -40C

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/CSA C22.2 No. 245 Marine Shipboard Cable

Flame Tests:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MC-HL, CT USE, SUN RES, DIR BUR, -40°C, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- RoHS Compliant

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	IN	mm	IN	mm	mils	mm	IN	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	0.44	11.1	0.65	16.4	50	1.27	0.75	19.1	0.44	250	373
9350.18040001	18	4	19	0.48	40	1.02	0.51	12.8	0.73	18.4	50	1.27	0.83	21.1	0.54	314	467
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	0.66	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	0.95	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	1.19	760	1131
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	1.74	1050	1563

16 AWG 7W (1.31 mm²) INDIVIDUAL AND OVERALL SHIELDED PAIRS

9350.16020001	16	2	19	0.48	40	1.02	0.48	12.2	0.70	17.7	50	1.27	0.80	20.3	0.50	292	435
9350.16040001	16	4	19	0.48	50	1.27	0.58	14.6	0.81	20.7	50	1.27	0.92	23.3	0.66	390	581
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	0.79	429	638
9350.16080001	16	8	19	0.48	50	1.27	0.76	19.3	1.00	25.5	50	1.27	1.11	28.1	0.96	615	915
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	1.08	613	912
9350.16120001	16	12	19	0.48	50	1.27	0.92	23.2	1.16	29.4	50	1.27	1.26	32.1	1.25	787	1172
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	1.54	859	1278
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	1.65	997	1484
9350.16240001	16	24	19	0.48	50	1.27	1.25	31.8	1.55	39.4	60	1.52	1.68	42.6	2.21	1383	2058
9350.16360001	16	36	19	0.48	50	1.27	1.42	36.1	1.72	43.6	60	1.52	1.84	46.8	2.67	1815	2700
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	3.30	2166	3223

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	IN	mm	IN	mm	mils	mm	IN	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	0.63	15.9	0.87	22.0	50	1.27	0.97	24.6	0.74	440	654
9350.16080002	16	8	19	0.48	50	1.27	0.85	21.5	1.09	27.7	50	1.27	1.20	30.4	1.12	751	1118
9350.16120002	16	12	19	0.48	50	1.27	1.00	25.5	1.26	32.1	50	1.27	1.37	34.7	1.47	979	1457
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	1.72	1079	1606
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	2.49	1515	2255
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	3.43	2184	3250

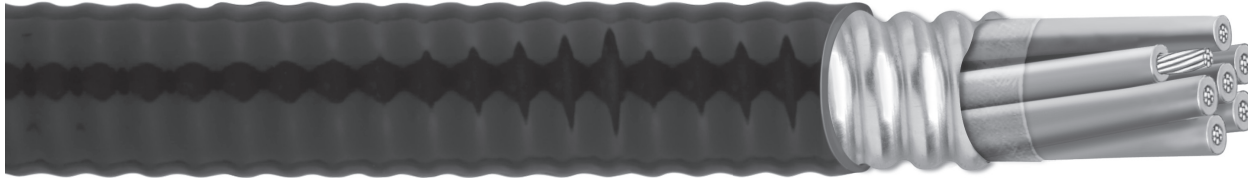
Dimensions and weights are nominal; subject to industry tolerances.

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, CSA Type HL, XLPE, 600 V or 1000 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 bend and 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:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MC-HL, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, 600V or 1000V, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- CSA certified^{1,2} 600V Type RA90, XLPE, HL, SR, FT4, and -40°C, CSA File # 7319
- RoHS Compliant

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.

² CSA Type RA90 listed at 600V only

CCW® Armored Control With Grounding Conductor

UL Type MC-HL, CSA Type HL, XLPE, 600 V or 1000 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	IN	mm	IN	mm	mils	mm	IN	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	0.29	7.3	0.45	11.5	50	1.27	0.56	14.1	0.24	173	257	15
9500.01403114	14	3	14	30	0.76	0.33	8.4	0.53	13.5	50	1.27	0.64	16.3	0.32	207	309	15
9500.01404114	14	4	14	30	0.76	0.35	8.9	0.56	14.1	50	1.27	0.66	16.7	0.34	226	337	15
9500.01405114	14	5	14	30	0.76	0.43	10.9	0.64	16.2	50	1.27	0.74	18.8	0.43	264	393	15
9500.01406114	14	6	14	30	0.76	0.43	10.9	0.64	16.2	50	1.27	0.74	18.8	0.43	280	416	15
9500.01408114	14	8	14	30	0.76	0.49	12.4	0.70	17.9	50	1.27	0.81	20.5	0.51	337	501	15
9500.01411114	14	11	14	30	0.76	0.57	14.6	0.81	20.6	50	1.27	0.92	23.3	0.66	410	611	12
9500.01418114	14	18	14	30	0.76	0.69	17.6	0.94	23.9	50	1.27	1.05	26.6	0.86	587	873	12
9500.01436114	14	36	14	30	0.76	0.94	23.9	1.18	30.0	50	1.27	1.29	32.7	1.30	948	1411	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	0.54	13.6	50	1.27	0.64	16.2	0.32	215	320	20
9500.01203112	12	3	12	30	0.76	0.38	9.6	0.60	15.1	50	1.27	0.70	17.8	0.38	255	380	20
9500.01204112	12	4	12	30	0.76	0.41	10.5	0.63	15.9	50	1.27	0.73	18.5	0.42	286	426	20
9500.01205112	12	5	12	30	0.76	0.45	11.4	0.66	16.6	50	1.27	0.76	19.3	0.45	316	471	20
9500.01206112	12	6	12	30	0.76	0.45	11.4	0.66	16.6	50	1.27	0.76	19.3	0.45	339	505	20
9500.01208112	12	8	12	30	0.76	0.56	14.2	0.80	20.2	50	1.27	0.90	22.9	0.64	437	650	20
9500.01211112	12	11	12	30	0.76	0.64	16.2	0.88	22.4	50	1.27	0.99	25.0	0.76	520	774	15
9500.01218112	12	18	12	30	0.76	0.76	19.2	1.00	25.4	50	1.27	1.11	28.1	0.96	753	1121	15
9500.01236112	12	36	12	30	0.76	1.10	27.9	1.37	34.8	50	1.27	1.48	37.6	1.72	1302	1938	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	10.0	0.61	15.4	50	1.27	0.71	18.1	0.40	275	409	30
9500.01003110	10	3	10	30	0.76	0.44	11.1	0.65	16.4	50	1.27	0.75	19.0	0.44	317	472	30
9500.01004110	10	4	10	30	0.76	0.49	12.4	0.70	17.9	50	1.27	0.81	20.5	0.51	371	552	30
9500.01006110	10	6	10	30	0.76	0.53	13.4	0.76	19.3	50	1.27	0.86	21.9	0.58	452	672	28
9500.01008110	10	8	10	30	0.76	0.64	16.2	0.88	22.4	50	1.27	0.99	25.0	0.76	565	841	28
9500.01011110	10	11	10	30	0.76	0.76	19.2	1.00	25.4	50	1.27	1.11	28.1	0.96	759	1129	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.

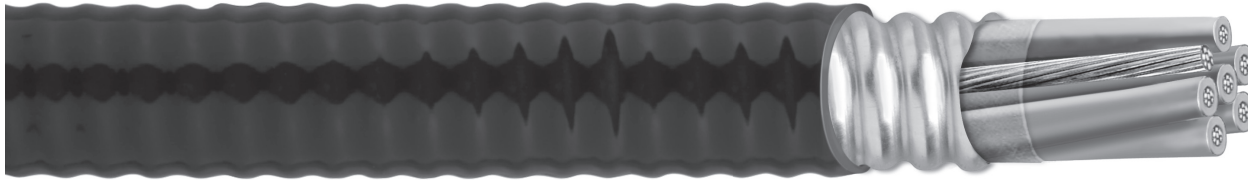
² Ampacities in accordance with NEC Article 310 and Table 310.15(B)(16).

Note: Standard cables with up to and including six (6) conductors are also marked CSA Type RA90. All others are special order.



CCW® Armored Control With Bare Grounding Conductor

UL Type MC-HL, CSA Type HL, XLPE, 600 V or 1000 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 bend and 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:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MC-HL, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, 600V or 1000V, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- CSA certified^{1,2} 600V Type RA90, XLPE, HL, SR, FT4, and -40°C, CSA File # 7319
- RoHS Compliant

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.

² CSA Type RA90 listed at 600V only

CCW® Armored Control With Bare Grounding Conductor

UL Type MC-HL, CSA Type HL, XLPE, 600 V or 1000 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 AREA¹	APPROXIMATE NET WEIGHT		90°C AMPACITY @ 30°C AMBIENT²
				mils	mm	IN	mm	IN	mm	mils	mm	IN	mm		LBS/ 1000 FT	kg/ 1000 m	
14 AWG 7W (2.08 mm²) MULTI-CONDUCTOR CONTROL CABLE WITH BARE GROUNDING CONDUCTOR																	
9510.01404114	14	4	14	30	0.76	0.34	8.6	0.53	13.3	50	1.27	0.63	16.0	0.31	218	324	20
9510.01405114	14	5	14	30	0.76	0.35	8.9	0.56	14.1	50	1.27	0.66	16.7	0.34	238	355	20
9510.01407114	14	7	14	30	0.76	0.43	10.9	0.60	15.2	50	1.27	0.71	18.0	0.40	287	427	17.5
9510.01409114	14	9	14	30	0.76	0.49	12.4	0.70	17.9	50	1.27	0.81	20.5	0.51	349	519	17.5
9510.01412114	14	12	14	30	0.76	0.57	14.5	0.81	20.6	50	1.27	0.92	23.3	0.66	420	624	12.5
9510.01419114	14	19	14	30	0.76	0.69	17.6	0.94	23.9	50	1.27	1.05	26.6	0.86	599	892	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	1.37	1030	1533	10
12 AWG 7W (3.31 mm²) MULTI-CONDUCTOR CONTROL CABLE WITH BARE GROUNDING CONDUCTOR																	
9510.01204112	12	4	12	30	0.76	0.39	10.0	0.61	15.4	50	1.27	0.71	18.1	0.40	279	415	24
9510.01205112	12	5	12	30	0.76	0.41	10.5	0.61	15.4	50	1.27	0.71	18.1	0.40	305	454	24
9510.01207112	12	7	12	30	0.76	0.48	12.2	0.70	17.9	50	1.27	0.81	20.5	0.51	375	558	21
9510.01209112	12	9	12	30	0.76	0.58	14.7	0.79	20.1	50	1.27	0.90	22.9	0.64	458	682	21
9510.01212111	12	12	12	30	0.76	0.64	16.2	0.88	22.4	50	1.27	0.99	25.0	0.76	535	796	15
10 AWG 7W (5.26 mm²) MULTI-CONDUCTOR CONTROL CABLE WITH BARE GROUNDING CONDUCTOR																	
9510.01004110	10	4	10	30	0.76	0.45	11.4	0.66	16.6	50	1.27	0.76	19.3	0.45	348	518	32

Dimensions and weights are nominal; subject to industry tolerances.

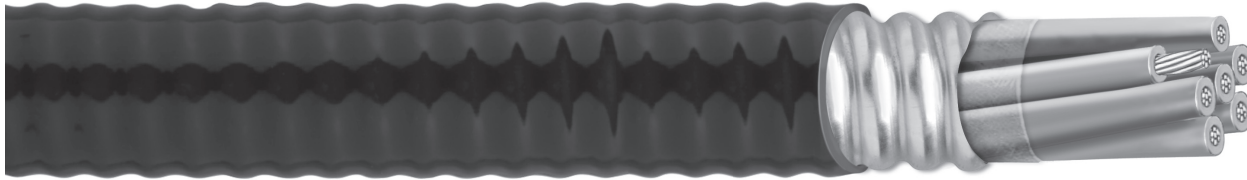
¹ Cross-sectional area for cable tray fill is in accordance with NEC Section 392.22.

² Ampacities in accordance with NEC Article 310 and Table 310.15(B)(16).



CCW® Armored Control Without Grounding Conductor

UL Type MC, CSA Type HL, XLPE, 600 V or 1000 V, 90°C, Cable Tray Use,
Sunlight-Resistant Direct Burial, UL Marine Shipboard Cable, ABS CWC MC



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 bend and cold impact at -40C

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/WC-57 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:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MC, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, 600V or 1000V, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWC MC
- CSA certified^{1,2} 600V Type RA90, XLPE, HL, SR, FT4, and -40°C, CSA File # 7319
- RoHS Compliant

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.

² CSA Type RA90 listed at 600V only

CCW® Armored Control Without Grounding Conductor

UL Type MC, CSA Type HL, XLPE, 600 V or 1000 V, 90°C, Cable Tray Use,
Sunlight-Resistant Direct Burial, UL Marine Shipboard Cable, ABS CWC MC

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 (SQ. IN.)	APPROXIMATE NET WEIGHT		90°C AMPACITY @ 30°C AMBIENT ²
			mils	mm	IN	mm	IN	mm	mils	mm	IN	mm		LBS/1000 FT	kg/1000 m	

14 AWG 7W (2.08 mm²) MULTI-CONDUCTOR CONTROL CABLE WITHOUT GROUNDING CONDUCTOR

9525.01402000	14	2	30	0.76	0.29	7.1	0.45	12.4	50	1.27	0.56	15.2	0.24	157	234	15
9525.01403000	14	3	30	0.76	0.29	7.3	0.45	11.5	50	1.27	0.56	14.1	0.24	172	256	15
9525.01404000	14	4	30	0.76	0.33	8.4	0.53	13.5	50	1.27	0.64	16.3	0.32	183	272	15
9525.01405000	14	5	30	0.76	0.39	10.0	0.61	15.4	50	1.27	0.71	18.1	0.40	241	358	15
9525.01407000	14	7	30	0.76	0.41	10.4	0.63	15.7	50	1.27	0.73	18.5	0.42	276	411	15
9525.01409000	14	9	30	0.76	0.49	12.4	0.70	17.9	50	1.27	0.81	20.5	0.51	336	500	15
9525.01412000	14	12	30	0.76	0.57	14.5	0.80	20.3	50	1.27	0.91	23.1	0.65	386	574	12
9525.01419000	14	19	30	0.76	0.69	17.5	0.93	23.6	50	1.27	1.04	26.4	0.85	544	809	12
9525.01437000	14	37	30	0.76	0.96	24.4	1.24	31.5	50	1.27	1.35	34.3	1.43	959	1427	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	0.32	166	247	20
9525.01203000	12	3	30	0.76	0.34	8.6	0.54	13.6	50	1.27	0.64	16.2	0.32	216	321	20
9525.01204000	12	4	30	0.76	0.38	9.6	0.60	15.1	50	1.27	0.70	17.8	0.38	259	385	20
9525.01205000	12	5	30	0.76	0.41	10.7	0.63	15.7	50	1.27	0.73	18.5	0.42	285	424	20
9525.01207000	12	7	30	0.76	0.45	11.4	0.66	16.6	50	1.27	0.76	19.3	0.45	339	504	20
9525.01209000	12	9	30	0.76	0.56	14.2	0.80	20.3	50	1.27	0.91	23.1	0.65	410	610	20
9525.01212000	12	12	30	0.76	0.64	16.5	0.88	22.6	50	1.27	0.99	25.1	0.76	515	766	15
9525.01219000	12	19	30	0.76	0.78	19.8	1.02	25.9	50	1.27	1.13	28.7	1.00	731	1088	15
9525.01237000	12	37	30	0.76	1.08	27.4	1.37	34.8	50	1.27	1.48	37.6	1.72	1318	1961	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	0.37	205	305	30
9525.01003000	10	3	30	0.76	0.39	10.0	0.61	15.4	50	1.27	0.71	18.1	0.40	274	408	30
9525.01004000	10	4	30	0.76	0.44	11.1	0.61	15.4	50	1.27	0.71	18.1	0.40	314	467	30
9525.01005000	10	5	30	0.76	0.49	12.4	0.70	17.9	50	1.27	0.81	20.5	0.51	370	551	30
9525.01007000	10	7	30	0.76	0.53	13.4	0.76	19.3	50	1.27	0.86	21.9	0.58	452	672	28
9525.01009000	10	9	30	0.76	0.65	16.5	0.89	22.6	50	1.27	1.00	25.4	0.79	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	0.92	693	1031	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.

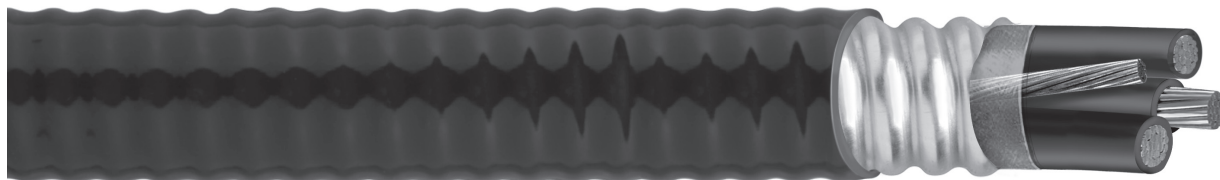
² Ampacities in accordance with NEC® Article 310 and Table 310.15(B)(16).

Note: Standard cables with up to and including six (6) conductors are also marked CSA Type RA90. All others are special order.



CCW® Armored Power, 3/C VFD and 4/C

UL Type MC-HL, CSA Type HL, XLPE, 600 V or 1000 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 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 bend and 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 Non-Shielded 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:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MC-HL, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, 600V or 1000V, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- CSA certified^{1,2} 600V Type RA90, XLPE, HL, SR, FT4, and -40°C, CSA File # 7319
- RoHS Compliant

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.

² CSA Type RA90 listed at 600V only

CCW® Armored Power, 3/C VFD and 4/C

UL Type MC-HL, CSA Type HL, XLPE, 600 V or 1000 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		IN	mm	IN	mm	mils	mm	IN	mm		LBS/ 1000 FT	kg/ 1000 m	
9600.01403318	"14 (7/W) (2.08 mm ²)"	3	30	0.76	3 x #18	0.29	7.3	0.45	11.5	50	1.27	0.56	14.1	0.24	189	282	15
9600.01404318	"12 (7/W) (3.31 mm ²)"	4	30	0.76	3 x #18	0.34	8.6	0.54	13.6	50	1.27	0.64	16.2	0.32	230	341	15
9600.01203316	"12 (7/W) (3.31 mm ²)"	3	30	0.76	3 x #16	0.34	8.6	0.54	13.6	50	1.27	0.64	16.2	0.32	246	366	20
9600.01204316	"12 (7/W) (3.31 mm ²)"	4	30	0.76	3 x #16	0.37	9.5	0.60	15.1	50	1.27	0.70	17.8	0.38	290	432	20
9600.01003314	"10 (7/W) (5.26 mm ²)"	3	30	0.76	3 x #14	0.43	10.9	0.65	16.5	50	1.27	0.75	19.2	0.45	320	476	30
9600.01004314	"10 (7/W) (5.26 mm ²)"	4	30	0.76	3 x #14	0.44	11.1	0.65	16.4	50	1.27	0.75	19.0	0.44	349	520	30
9600.00803314	"8 (7/W) (8.36 mm ²)"	3	45	1.14	3 x #14	0.50	12.8	0.72	18.4	50	1.27	0.83	21.0	0.54	413	615	55
9600.00804110	"8 (7/W) (8.36 mm ²)"	4	45	1.14	1 x #10	0.60	15.2	0.84	21.3	50	1.27	0.94	24.0	0.70	496	738	44
9600.00603312	"6 (7/W) (13.3 mm ²)"	3	45	1.14	3 x #12	0.57	14.5	0.82	20.9	50	1.27	0.93	23.5	0.67	565	840	75
9600.00604108	"6 (7/W) (13.3 mm ²)"	4	45	1.14	1 x #8	0.68	17.2	0.94	23.9	50	1.27	1.05	26.6	0.86	713	1062	60
9600.00403312	"4 (7/W) (21.2 mm ²)"	3	45	1.14	3 x #12	0.68	17.2	0.94	23.9	50	1.27	1.05	26.6	0.86	775	1153	95
9600.00404108	"4 (7/W) (21.2 mm ²)"	4	45	1.14	1 x #8	0.75	18.9	1.00	25.5	50	1.27	1.11	28.1	0.96	918	1366	76
9600.00203310	"2 (7/W) (33.6 mm ²)"	3	45	1.14	3 x #10	0.77	19.5	1.02	26.0	50	1.27	1.13	28.6	1.00	1057	1573	130
9600.00204106	"2 (7/W) (33.6 mm ²)"	4	45	1.14	1 x #6	0.87	22.0	1.12	28.5	50	1.27	1.23	31.2	1.18	1304	1940	104
9600.00103310	1 (19/W) (42.4 mm ²)	3	55	1.40	3 x #10	0.90	22.9	1.16	29.4	50	1.27	1.26	32.1	1.25	1295	1927	150
9600.00104106	1 (19/W) (42.4 mm ²)	4	55	1.40	1 x #6	0.99	25.1	1.26	32.1	50	1.27	1.37	34.7	1.47	1363	2028	120
9600.11003310	1/0 (19/W) (53.5 mm ²)	3	55	1.40	3 x #10	0.97	24.6	1.24	31.5	50	1.27	1.34	34.1	1.42	1558	2318	170
9600.11004106	1/0 (19/W) (53.5 mm ²)	4	55	1.40	1 x #6	1.12	28.4	1.37	34.8	50	1.27	1.48	37.6	1.72	1862	2771	136
9600.21003310	2/0 (19/W) (67.4 mm ²)	3	55	1.40	3 x #10	1.05	26.8	1.34	34.1	50	1.27	1.45	36.7	1.64	1838	2735	195
9600.21004106	2/0 (19/W) (67.4 mm ²)	4	55	1.40	1 x #6	1.22	30.9	1.51	38.2	60	1.52	1.63	41.4	2.09	2440	3631	156
9600.31003308	3/0 (19/W) (85.0 mm ²)	3	55	1.40	3 x #8	1.19	30.1	1.46	37.1	50	1.27	1.57	39.9	1.93	2421	3602	225
9600.31004104	3/0 (19/W) (85.0 mm ²)	4	55	1.40	1 x #4	1.36	34.5	1.65	41.9	60	1.52	1.78	45.2	2.49	2921	4346	180
9600.41003308	4/0 (19/W) (107 mm ²)	3	55	1.40	3 x #8	1.29	32.8	1.58	40.2	60	1.52	1.71	43.5	2.30	2899	4313	260
9600.41004104	4/0 (19/W) (107 mm ²)	4	55	1.40	1 x #4	1.44	36.7	1.78	45.2	60	1.52	1.91	48.5	2.86	3609	5370	208
9600.25003308	250 (37/W) (127 mm ²)	3	65	1.65	3 x #8	1.43	36.3	1.74	44.1	60	1.52	1.87	47.4	—	3352	4987	290
9600.25004104	250 (37/W) (127 mm ²)	4	65	1.65	1 x #4	1.60	40.7	1.96	49.8	60	1.52	2.09	53.1	—	4142	6163	232
9600.35003307	350 (37/W) (177 mm ²)	3	65	1.65	3 x #7	1.63	41.4	1.95	49.5	60	1.52	2.08	52.8	—	4501	6698	350
9600.35004103	350 (37/W) (177 mm ²)	4	65	1.65	1 x #3	1.81	46.0	2.15	54.7	75	1.91	2.28	58.0	—	5668	8434	280
9600.50003306	500 (37/W) (253 mm ²)	3	65	1.65	3 x #6	1.89	48.1	2.27	57.8	75	1.91	2.43	61.8	—	6225	9263	430
9600.50004102	500 (37/W) (253 mm ²)	4	65	1.65	1 x #2	2.12	53.8	2.48	63.1	75	1.91	2.65	67.2	—	8006	11912	344
9600.75003305	750 (61/W) (380 mm ²)	3	80	2.03	3 x #5	2.33	59.3	2.75	69.9	75	1.91	2.91	74.0	—	9086	13520	535
9600.75004101	750 (61/W) (380 mm ²)	4	80	2.03	1 x #1	2.61	66.3	3.03	77.0	85	2.16	3.21	81.5	—	11449	17037	428
9600.10003111	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	—	11611	17280	615
9600.10004111	1000 (61/W) (507 mm ²)	4	80	2.03	1 x #1/0	3.07	78.0	3.63	92.2	85	2.16	3.81	96.8	—	15377	22883	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.

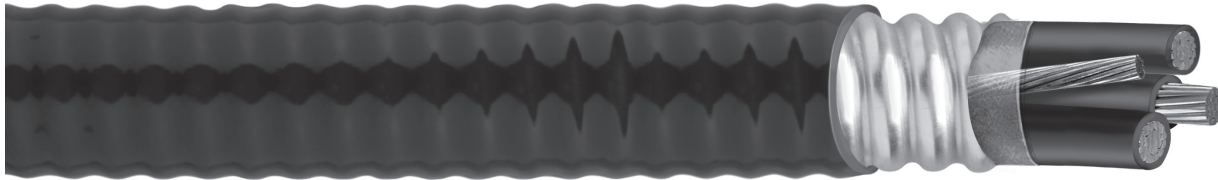
² Ampacities in accordance with NEC Article 310 and Table 310.15(B)(16).

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.



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 bend and 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 Non-Shielded 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:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MC-HL, SUN RES, CT USE, DIR BUR, -40°C, 2000V, UL File # E90496
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- RoHS Compliant

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		IN	mm	IN	mm	mils	mm	IN	mm	LBS/ 1000 FT	kg/ 1000 m	
9615.01403318	14 (7/W) (2.08 mm ²)	3	60	1.52	3 x #18	0.44	11.1	0.62	15.2	50	1.27	0.73	17.9	267	397	15
9615.01203316	12 (7/W) (3.31 mm ²)	3	60	1.52	3 x #16	0.47	11.9	0.66	16.2	50	1.27	0.77	18.9	324	482	20
9615.01003314	10 (7/W) (5.26 mm ²)	3	60	1.52	3 x #14	0.53	13.3	0.73	17.8	50	1.27	0.84	20.5	400	595	30
9615.00803314	8 (7/W) (8.36 mm ²)	3	70	1.78	3 x #14	0.65	16.5	0.86	21.1	50	1.27	0.97	23.8	524	780	55
9615.00603312	6 (7/W) (13.3 mm ²)	3	70	1.78	3 x #12	0.71	18.0	0.96	23.4	50	1.27	1.07	26.1	697	1037	75
9615.00403312	4 (7/W) (21.2 mm ²)	3	70	1.78	3 x #12	0.81	20.6	1.09	26.6	50	1.27	1.23	30.1	1000	1488	95
9615.00203310	2 (7/W) (33.6 mm ²)	3	70	1.78	3 x #10	0.94	23.9	1.25	30.6	50	1.27	1.36	33.3	1285	1912	130
9615.00103310	1 (19/W) (42.4 mm ²)	3	90	2.29	3 x #10	1.13	28.7	1.48	36.1	50	1.27	1.59	38.8	1595	2374	150
9615.11003310	1/0 (19/W) (53.5 mm ²)	3	90	2.29	3 x #10	1.21	30.6	1.55	38.0	60	1.52	1.68	41.2	1930	2872	170
9615.21003306	2/0 (19/W) (67.4 mm ²)	3	90	2.29	3 x #6	1.30	32.9	1.68	41.0	60	1.52	1.81	44.2	2507	3731	195
9615.41003304	4/0 (19/W) (107 mm ²)	3	90	2.29	3 x #4	1.53	38.7	1.91	46.7	60	1.52	2.04	49.9	3590	5342	260
9615.25003304	250 (37/W) (127 mm ²)	3	105	2.67	3 x #4	1.61	41.0	1.91	48.6	60	1.52	2.04	51.9	3878	5770	290
9615.35003302	350 (37/W) (177 mm ²)	3	105	2.67	3 x #2	1.93	48.9	2.41	58.9	75	1.91	2.57	62.8	5214	7759	350
9615.50003301	500 (37/W) (253 mm ²)	3	105	2.67	3 x #1	2.20	55.8	2.68	65.5	75	1.91	2.84	69.5	6977	10382	430

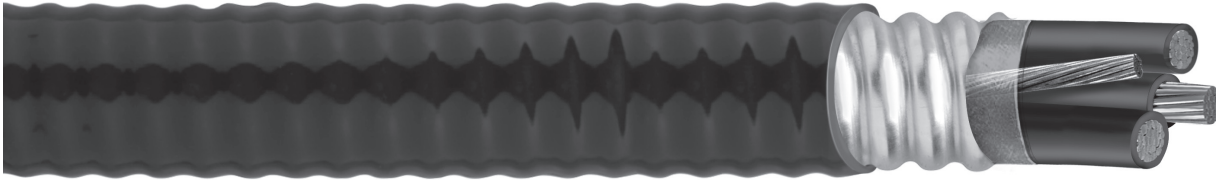
Dimensions and weights are nominal; subject to industry tolerances.

¹ 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 bend and cold impact at -40C
- 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
- 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
- RoHS Compliant

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		IN	mm	IN	mm	mils	mm	IN	mm	LBS/ 1000 FT	kg/ 1000 m	IN	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	1135	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	1122	1670	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	1404	2090	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	1623	2415	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	2043	3040	20.0	506	195
9675.41003308	4/0 (19/W) (107 mm ²)	3	80	2.03	3 x #8	1.42	36.0	1.75	44.5	50	1.27	1.86	47.2	3017	4490	22.2	564	260
9675.25003308	250 (37/W) (127 mm ²)	3	90	2.29	3 x #8	1.54	39.1	1.90	48.3	50	1.27	2.01	51.1	3482	5182	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	4465	6645	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	6152	9155	31.0	789	430

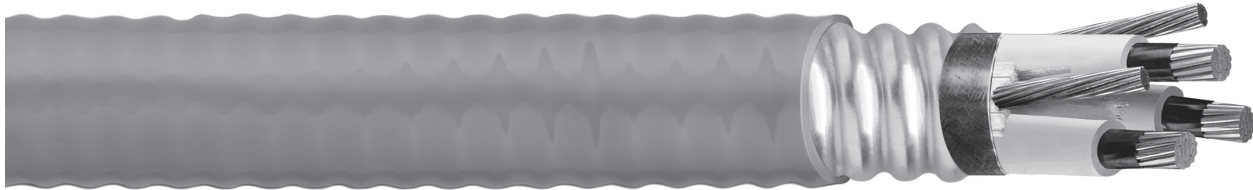
Dimensions and weights are nominal; subject to industry tolerances.

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, 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 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):

- Prysmian's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Meets cold bend and cold impact at -40C
- 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:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MV-90 or MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E518856
- 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, 105°C, Cable Tray Use, Sunlight-Resistant

Direct Burial, ABS CWCMC

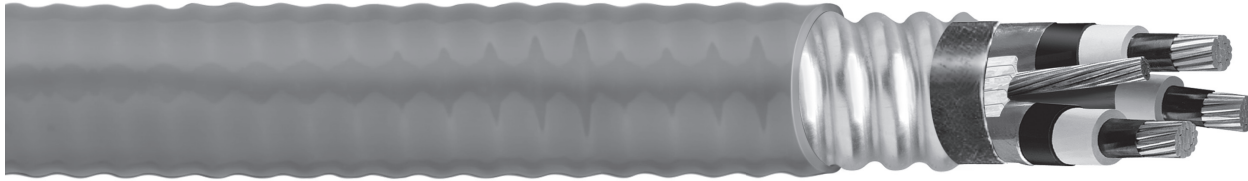
CATALOG NUMBER	COND. SIZE	NO. OF COND.	INSULATION THICKNESS		NOMINAL O.D. OVER INSULATION		BARE GROUND	NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		APPROXIMATE NET WEIGHT		AMPACITY	
	AWG (kcmil)		mils	mm	IN	mm	AWG	IN	mm	IN	mm	mils	mm	IN	mm	LBS/ 1000 FT	kg/ 1000 m	IN AIR¹	DIRECT BURIAL²
3/C WITH GROUND MC-HL OR MV-90, 90 MILS EPR, 2.4 kV, YELLOW JACKET																			
9700.00803312	"8 (7/W) (8.36 mm²)"	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 mm²)"	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 mm²)"	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	1436	105	135
9700.00203310	"2 (7/W) (33.6 mm²)"	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	1275	1897	140	180
9700.00103308	"1 (19/W) (42.4 mm²)"	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	1525	2269	160	200
9700.11003308	"1/0 (19/W) (53.5 mm²)"	3	90	2.3	0.549	13.94	3 x #8	1.25	31.8	1.51	38.4	60	1.52	1.64	41.7	1987	2956	185	230
9700.21003308	2/0 (19/W) (67.4 mm²)"	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	2165	3222	215	260
9700.41003307	"4/0 (19/W) (107 mm²)"	3	90	2.3	0.684	17.37	3 x #7	1.49	37.8	1.81	46.1	60	1.52	1.94	49.4	3290	4895	285	335
9700.25003307	"250 (37/W) (127 mm²)"	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	3475	5171	320	365
9700.35003306	"350 (37/W) (177 mm²)"	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	4710	7009	395	440
9700.50003305	"500 (37/W) (253 mm²)"	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	6410	9539	485	530
9700.75003304	"750 (61/W) (380 mm²)"	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	9225	13728	615	650
9700.10003304	"1000 (61/W) (507 mm²)"	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	12080	17977	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.

CCW® Armored Power, 5 kV 133%/8 kV 100%, Shielded, 3/C VFD

UL Type MC-HL or MV-105, CSA Type HL, 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
- Prysmian's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Meets cold bend and 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
- CSA C68.10

Flame Tests:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MV-105 or MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E518856
- UL Listed Marine Shipboard, UL File # E85994
- CSA Type HL, SR, FT4, -40°C, CSA File # 27161
- 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, CSA Type HL, 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 kV³ AMPACITY	
	AWG (kcmil)		mils	mm	IN	mm	AWG	IN	mm	IN	mm	mils	mm	IN	mm	LBS/ 1000 FT	kg/ 1000 m	IN AIR¹	DIRECT BURIAL²
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 mm²)"	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	1121	1668	88	115
9800.00403310	"4 (7/W) (21.2 mm²)"	3	115	2.9	0.491	12.47	3 x #10	1.24	31.5	1.51	38.4	60	1.52	1.64	41.7	1512	2250	115	150
9800.00203310	"2 (7/W) (33.6 mm²)"	3	115	2.9	0.548	13.92	3 x #10	1.36	34.5	1.64	41.7	60	1.52	1.77	45.0	1920	2857	154	190
9800.00103308	"1 (19/W) (42.4 mm²)"	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	1978	2944	180	215
9800.11003308	"1/0 (19/W) (53.5 mm²)"	3	115	2.9	0.61	15.60	3 x #8	1.50	38.1	1.78	45.2	60	1.52	1.91	48.5	2484	3696	205	245
9800.21003308	"2/0 (19/W) (67.4 mm²)"	3	115	2.9	0.654	16.61	3 x #8	1.59	40.3	1.92	48.8	60	1.52	2.05	52.1	2901	4316	240	280
9800.41003307	"4/0 (19/W) (107 mm²)"	3	115	2.9	0.752	19.10	3 x #7	1.80	45.6	2.15	54.6	60	1.52	2.28	57.9	3829	5697	320	360
9800.25003306	"250 (37/W) (127 mm²)"	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	4060	6042	355	395
9800.35003306	"350 (37/W) (177 mm²)"	3	115	2.9	0.902	22.91	3 x #6	2.12	53.8	2.45	62.2	75	1.91	2.61	66.3	5721	8512	440	475
9800.50003305	"500 (37/W) (253 mm²)"	3	115	2.9	1.018	25.86	3 x #5	2.37	60.2	2.75	69.9	75	1.91	2.91	74.0	7267	10813	545	570
9800.75003304	"750 (61/W) (380 mm²)"	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	10268	15280	685	700
9800.10003304	"1000 (61/W) (507 mm²)"	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	13051	19422	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.

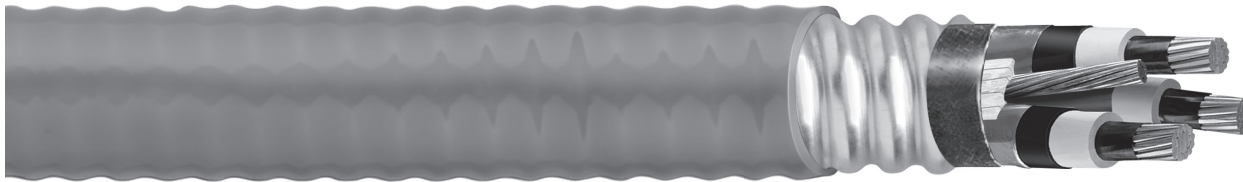
² Direct burial ampacities are per NEC Table 310.60(C)(83) for three insulated copper conductors rated 105°C, cabled within an overall covering and directly buried in earth at 20°C ambient earth temperature.

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.



CCW® Armored Power, 8 kV 133%, Shielded, 3/C VFD

UL Type MC-HL or MV-105, CSA Type HL, 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
- Prysmian's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Meets cold bend and 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
- AIEC 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 C68.10

Flame Tests:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MV-105 or MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E518856
- UL Listed Marine Shipboard, UL File # E85994
- CSA Type HL, SR, FT4, -40°C, CSA File # 27161
- 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, CSA Type HL, 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	IN	mm	AWG	IN	mm	IN	mm	mils	mm	IN	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 mm²)"	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	1350	2009	105	120
9815.00403310	"4 (7/W) (21.2 mm²)"	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	1600	2381	135	155
9815.00203310	"2 (7/W) (33.6 mm²)"	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	2000	2976	185	200
9815.00103308	"1 (19/W) (42.4 mm²)"	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	2275	3386	210	225
9815.11003308	"1/0 (19/W) (53.5 mm²)"	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	2600	3869	240	255
9815.21003308	"2/0 (19/W) (67.4 mm²)"	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	2950	4390	275	290
9815.41003307	"4/0 (19/W) (107 mm²)"	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	4025	5990	360	375
9815.25003306	"250 (37/W) (127 mm²)"	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	4600	6846	400	410
9815.35003306	"350 (37/W) (177 mm²)"	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	5800	8631	490	495
9815.50003305	"500 (37/W) (253 mm²)"	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	7800	11608	600	590
9815.75003304	"750 (61/W) (380 mm²)"	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	10750	15998	745	720
9815.10003304	"1000 (61/W) (507 mm²)"	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	13550	20165	860	810

Dimensions and weights are nominal; subject to industry tolerances.

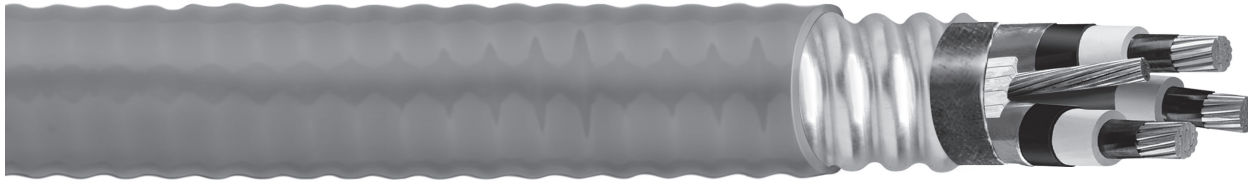
¹ In-air ampacities are per NEC Table 310.60(C)(71) for three insulated copper conductors rated 105°C, cabled with an overall covering and isolated in air at 40°C ambient temperature.

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.



CCW® Armored Power, 15 kV 100%, Shielded, 3/C

UL Type MC-HL or MV-105, CSA Type HL, 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):

- Prysmian's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Meets cold bend and 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
- AIEC 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 C68.10

Flame Tests:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MV-105 or MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E518856
- UL Listed Marine Shipboard, UL File # E85994
- CSA Type HL, SR, FT4, -40°C, CSA File # 27161
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW® Armored Power, 15 kV 100%, Shielded, 3/C

UL Type MC-HL or MV-105, CSA Type HL, 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	IN	mm	AWG	IN	mm	IN	mm	mils	mm	IN	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 mm²)"	3	175	4.4	0.65	16.5	6	1.61	40.9	1.96	49.8	60	1.52	2.05	52.1	2077	3091	185	200
9825.00103104	"1 (19/W) (42.4 mm²)"	3	175	4.4	0.69	17.5	4	1.68	42.7	2.01	51.1	60	1.52	2.15	54.6	2469	3674	210	225
9825.11003104	"1/0 (19/W) (53.5 mm²)"	3	175	4.4	0.79	19.96	4	1.74	44.1	2.15	54.6	60	1.52	2.28	57.9	2984	4440	240	255
9825.21003104	"2/0 (19/W) (67.4 mm²)"	3	175	4.4	0.76	19.3	4	1.88	47.8	2.19	55.6	60	1.52	2.36	59.9	3130	4658	275	290
9825.41003103	"4/0 (19/W) (107 mm²)"	3	175	4.4	0.86	21.8	3	2.09	53.1	2.45	62.2	75	1.91	2.61	66.3	4290	6384	360	375
9825.25003102	"250 (37/W) (127 mm²)"	3	175	4.4	0.92	23.4	2	2.19	55.6	2.58	65.5	75	1.91	2.74	69.6	4775	7106	400	410
9825.35003102	"350 (37/W) (177 mm²)"	3	175	4.4	1.01	25.7	2	2.45	62.2	2.85	72.4	75	1.91	3.01	76.5	6132	9125	490	495
9825.50003101	"500 (37/W) (253 mm²)"	3	175	4.4	1.13	28.7	1	2.71	68.8	3.16	80.3	85	2.16	3.34	84.8	8052	11983	600	590
9825.750031110	"750 (61/W) (380 mm²)"	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	11098	16516	745	720

Dimensions and weights are nominal; subject to industry tolerances.

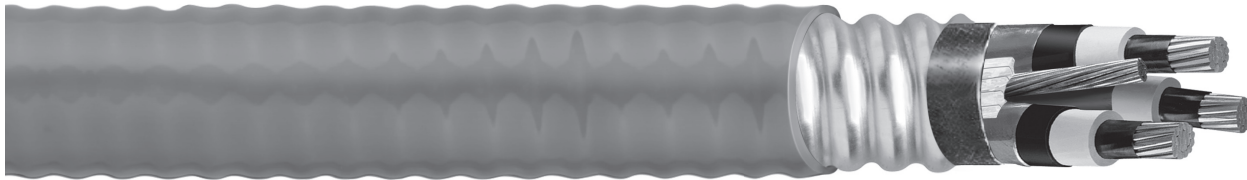
¹ Ampacities in air are per NEC Table 310.60(C)(71) for an insulated three-conductor copper cable isolated in air with 105°C rated conductors at a 40°C ambient temperature.

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.



CCW® Armored Power, 15 kV 133%, Shielded, 3/C

UL Type MC-HL or MV-105, CSA Type HL, 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):

- Prysmian's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Meets cold bend and 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
- CSA C68.10

Flame Tests:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MV-105 or MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E518856
- UL Listed Marine Shipboard, UL File # E85994
- CSA Type HL, SR, FT4, -40°C, CSA File # 27161
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW® Armored Power, 15 kV 133%, Shielded, 3/C

UL Type MC-HL or MV-105, CSA Type HL, 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	IN	mm	AWG	IN	mm	IN	mm	mils	mm	IN	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 mm²)"	3	220	5.6	0.75	19.1	6	1.80	45.6	2.15	54.6	60	1.52	2.28	57.9	2528	3762	185	200	
9835.00103104	"1 (19/W) (42.4 mm²)"	3	220	5.6	0.79	20.1	4	1.88	47.8	2.23	56.6	60	1.52	2.36	59.9	2811	4183	210	225	
9835.11003104	"1/0 (19/W) (53.5 mm²)"	3	220	5.6	0.82	20.8	4	1.94	49.2	2.32	58.9	75	1.91	2.48	63.0	3357	4994	240	255	
9835.21003104	"2/0 (19/W) (67.4 mm²)"	3	220	5.6	0.86	21.8	4	2.03	51.5	2.40	61.0	75	1.91	2.55	64.8	3792	5642	275	290	
9835.41003103	"4/0 (19/W) (107 mm²)"	3	220	5.6	0.96	24.3	3	2.24	56.8	2.62	66.5	75	1.91	2.78	70.7	4798	7139	360	345	
9835.25003102	"250 (37/W) (127 mm²)"	3	220	5.6	1.03	26.2	2	2.36	59.9	2.75	69.9	75	1.91	2.92	74.2	5086	7568	400	410	
9835.35003102	"350 (37/W) (177 mm²)"	3	220	5.6	1.11	28.1	2	2.56	65.0	3.03	77.0	85	2.16	3.21	81.6	6611	9837	490	495	
9835.50003101	"500 (37/W) (253 mm²)"	3	220	5.6	1.22	31.0	1	2.81	71.4	3.32	84.3	85	2.16	3.50	89.0	8325	12388	600	590	
9835.750031110	"750 (61/W) (380 mm²)"	3	220	5.6	1.39	35.4	1/0	3.18	80.7	3.80	96.5	85	2.16	3.98	101.2	11380	16933	745	720	

Dimensions and weights are nominal; subject to industry tolerances.

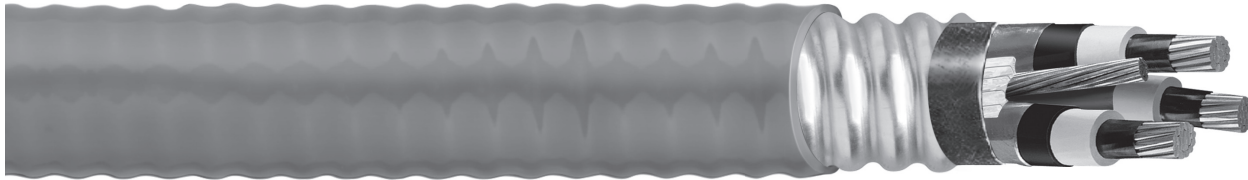
¹ Ampacities in air are per NEC Table 310.60(C)(71) for an insulated three-conductor copper cable isolated in air with 105°C rated conductors at a 40°C ambient temperature.

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.



CCW® Armored Power, 25 kV 100%, Shielded, 3/C

UL Type MC-HL or MV-105, CSA Type HL, EPR, 105°C, Cable Tray Use, Sunlight-Resistant Direct Burial, ABS CWC MC



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):

- Prysmian's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Meets cold bend and 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
- AIEC 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 C68.10

Flame Tests:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MV-105 or MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E518856
- UL Listed Marine Shipboard, UL File # E85994
- CSA Type HL, SR, FT4, -40°C, CSA File # 27161
- American Bureau of Shipping (ABS) Listed for CWC MC

CCW® Armored Power, 25 kV 100%, Shielded, 3/C

UL Type MC-HL or MV-105, CSA Type HL, 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	IN	mm	AWG	IN	mm	IN	mm	mils	mm	IN	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 mm²)	3	260	6.6	0.87	22.1	4	2.07	52.6	2.45	62.2	75	1.91	2.61	66.3	3189	4746	210	225
9845.11003104	1/0 (19/W) (53.5 mm²)	3	260	6.6	0.90	22.9	4	2.15	54.6	2.53	64.3	75	1.91	2.69	68.3	3536	5262	240	255
9845.21003104	2/0 (19/W) (67.4 mm²)	3	260	6.6	0.94	23.9	4	2.24	56.9	2.62	66.5	75	1.91	2.79	70.9	3939	5862	275	290
9845.41003103	4/0 (19/W) (107 mm²)	3	260	6.6	1.04	26.4	3	2.51	63.8	2.93	74.4	75	1.91	3.10	78.7	5122	7622	360	345
9845.25003102	250 (37/W) (127 mm²)	3	260	6.6	1.10	27.9	2	2.61	66.3	3.07	78.0	85	2.16	3.25	82.6	5819	8660	400	410
9845.35003102	350 (37/W) (177 mm²)	3	260	6.6	1.19	30.2	2	2.82	71.6	3.32	84.3	85	2.16	3.50	88.9	7115	10588	490	495
9845.50003101	500 (37/W) (253 mm²)	3	260	6.6	1.31	33.3	1	3.08	78.2	3.62	91.9	85	2.16	3.81	96.8	9125	13579	600	590

Dimensions and weights are nominal; subject to industry tolerances.

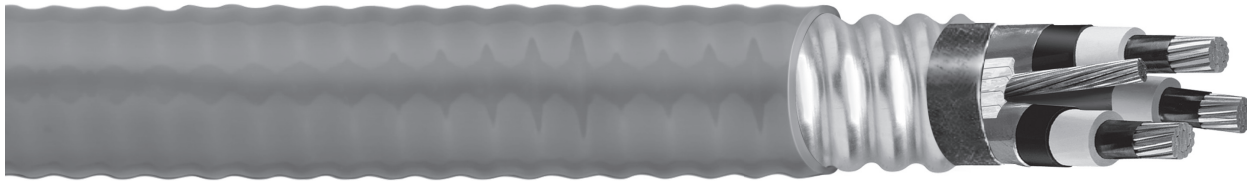
¹ In-air ampacities are per NEC Table 310.60(C)(71) for three insulated copper conductors rated 105°C, cabled with an overall covering and isolated in air at 40°C ambient temperature.

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.



CCW® Armored Power, 25 kV 133%/35 kV 100%, Shielded, 3/C

UL Type MC-HL or MV-105, CSA Type HL, 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:

- 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):

- Prysmian's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Meets cold bend and 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
- AIEC 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 C68.10

Flame Tests:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MV-105 or MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E518856
- UL Listed Marine Shipboard, UL File # E85994
- CSA Type HL, SR, FT4, -40°C, CSA File # 27161
- 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, CSA Type HL, 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	IN	mm	AWG	IN	mm	IN	mm	mils	mm	IN	mm	LBS/ 1000 FT	kg/ 1000 m	IN AIR¹	DIRECT BURIAL²
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 mm²)	3	345	8.8	1.04	26.4	4	2.48	63.0	2.89	73.4	75	1.91	3.05	77.5	4100	6101	210	225
9855.11003104	2/0 (19/W) (67.4 mm²)	3	345	8.8	1.07	27.2	4	2.56	65.0	2.98	75.7	75	1.91	3.14	79.8	4500	6697	240	255
9855.21003104	2/0 (19/W) (67.4 mm²)	3	345	8.8	1.11	28.2	4	2.57	65.4	3.11	79.0	75	1.91	3.27	83.1	4912	7308	275	290
9855.41003103	4/0 (19/W) (107 mm²)	3	345	8.8	1.22	31.0	3	2.88	73.2	3.41	86.6	85	2.16	3.60	91.4	6200	9227	360	345
9855.25003103	250 (37/W) (127 mm²)	3	345	8.8	1.27	32.3	3	2.97	75.4	3.63	92.2	85	2.16	3.81	96.8	6800	10119	400	410
9855.35003102	350 (37/W) (177 mm²)	3	345	8.8	1.36	34.5	2	3.20	81.3	3.76	95.5	85	2.16	3.94	100.1	8000	11905	490	495
9855.50003101	500 (37/W) (253 mm²)	3	345	8.8	1.48	37.6	1	3.45	87.6	4.10	104.1	85	2.16	4.23	107.4	10150	15105	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.

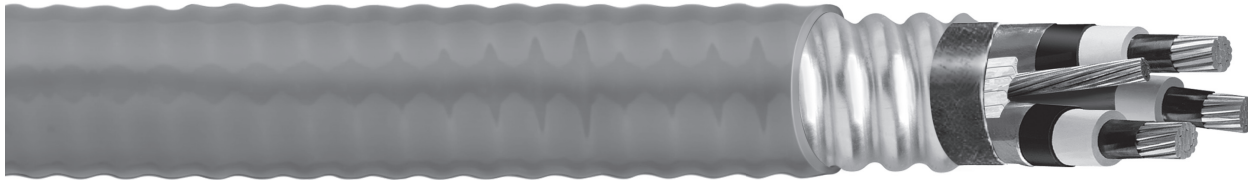
² Direct burial ampacities are per NEC Table 310.60(C)(83) for three insulated copper conductors rated 105°C, cabled within an overall covering and directly buried in earth at 20°C ambient earth temperature.

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, CSA Type HL, 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):

- Prysmian's EPR insulation system has outstanding corona resistance and high dielectric strength, and it provides electrical stability under stress
- Meets cold bend and cold impact at -40C
- 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
- AIEC 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 C68.10

Flame Tests:

- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)

Compliances:

- UL Type MV-105 or MC-HL, SUN RES, CT USE, DIR BUR, -40°C, FT4, UL File # E518856
- UL Listed Marine Shipboard, UL File # E85994
- CSA Type HL, SR, FT4, -40°C, CSA File # 27161
- American Bureau of Shipping (ABS) Listed for CWCMC

CCW® Armored Power, 35 kV 133%, Shielded, 3/C

UL Type MC-HL or MV-105, CSA Type HL, 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	IN	mm	AWG	IN	mm	IN	mm	mils	mm	IN	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 mm²)	3	420	10.7	1.24	31.5	4	2.85	72.5	3.41	86.6	85	2.16	3.59	91.3	5320	7916	240	255
9875.21003104	2/0 (19/W) (67.4 mm²)	3	420	10.7	1.28	32.3	4	2.94	74.7	3.63	92.2	85	2.16	3.81	96.9	5745	8549	275	290
9875.41003103	4/0 (19/W) (107 mm²)	3	420	10.7	1.38	35.1	3	3.15	80.0	3.80	96.5	85	2.16	3.98	101.2	6982	10389	360	345
9875.25003103	250 (37/W) (127 mm²)	3	420	10.7	1.43	36.3	3	3.40	86.4	3.98	101.1	85	2.16	4.16	105.7	8100	12054	400	410
9875.35003102	350 (37/W) (177 mm²)	3	420	10.7	1.53	38.6	2	3.47	88.2	4.10	104.1	85	2.16	4.28	108.8	8854	13175	490	495
9875.50003101	500 (37/W) (253 mm²)	3	420	10.7	1.64	41.7	1	3.81	96.8	4.45	113.0	85	2.16	4.63	117.6	11100	16519	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.



AIRGUARD®

INTRODUCTION

Today's customers are looking for solutions to the ever-growing demands before them including reduced construction and installation costs, and improved reliability and safety levels for man and machine. Prysmian's AIRGUARD® cable is making that happen today.

Yesterday's metallic armored cable technology is a hindrance to meeting the installation efficiencies and safety levels that customers require today. Medium Voltage AIRGUARD® eliminates or reduces splices, increasing reliability while reducing the total installation cost.

Low Voltage AIRGUARD® construction allows the cable to be stripped in minutes, is extremely flexible with a minimum bending radius, for non-shielded cables, of 4 times the OD and is stronger than MCHL cables. Low Voltage AIRGUARD® is rated TC-ER-HL suitable for Class I Division I location for the entire size range. All of this allows for AIRGUARD® connections to be performed in minutes, not hours. AIRGUARD's® polymeric armor makes the need for power tools and knives a thing of the past while insuring a faster, more reliable and safer cable installation.

The Prysmian AIRGUARD® polymeric armored cable solution completely eliminates the need for outdated interlocked and continuously corrugated and welded cables as it is now available in High Voltage, Medium Voltage, Low Voltage, Instrumentation and Fiber Optic cable constructions. The combination of AIRGUARD® cable and Prysmian's extensive offering of terminations, splices, cable glands and tools provides a turnkey system and makes Prysmian the right choice for the demands of today.

Applications

- ARTIFICIAL LIFT
- CHEMICALS
- CHEMICAL WASHDOWN
- DRILLING
- FOOD INDUSTRY
- FRACKING
- MINING
- OFFSHORE PRODUCTION
PLATFORM PETROCHEMICALS
- PIPELINE
- PULP & PAPER
- PUMPING STATION
- REFINING
- STEEL
- TANK BATTERY

AIRGUARD®

SPECIFICATION NUMBER	PRODUCT DESCRIPTION	REVISION DATE	PAGE NUMBER
10000 AIRGUARD®EX VFD (AGX)	XLPE/Polymeric Armor/PVC, Low-Voltage Power UL Type TC-ER-HL 600V or UL Type TC-ER 1000V	Feb 2025	140
10050 AIRGUARD®EX (AGX)	XLPE/Polymeric Armor/PVC, Control UL Type TC-ER-HL 600V or UL Type TC-ER 1000V	Feb 2025	141
10200 AIRGUARD®	PVC/Nylon/Polymeric Armor/PVC, Instrumentation UL Type TC-ER-HL 600V - Onshore Rated	Feb 2025	142
10250 AIRGUARD®	XLPE/Polymeric Armor/PVC, Instrumentation UL Type TC-ER-HL 600V - Marine Rated	Feb 2025	143
10300 AIRGUARD®	XLPE/Polymeric Armor/PVC, Control UL Type TC-ER-HL 600V or 1000V	Feb 2025	144
10350 AIRGUARD®	XLPE/Polymeric Armor/PVC, Low-Voltage Power UL Type TC-ER-HL 600V or 1000V	Feb 2025	145
10400 AIRGUARD®VFD	XLPE/Polymeric Armor/PVC, Low-Voltage Power UL Type TC-ER-HL 600V or 1000V	Feb 2025	146
10500 AIRGUARD®	EPR/Copper Tape Shield/Polymeric Armor/PVC, MV Power, Shielded UL Type MV-105, 5kV and 8kV, 133%/100% Ins. Level	Feb 2025	147
10550 AIRGUARD®	EPR/Copper Tape Shield/Polymeric Armor/PVC, MV Power, Shielded UL Type MV-105, 15kV, 133% Ins. Level	Feb 2025	148
10600 AIRGUARD®	EPR/Copper Tape Shield/Polymeric Armor/PVC, MV Power, Shielded UL Type MV-105, 25kV, 133% Ins. Level	Feb 2025	149
10650 AIRGUARD®	EPR/Copper Tape Shield/Polymeric Armor/PVC, MV Power, Shielded UL Type MV-105, 35kV, 133% Ins. Level	Feb 2025	150
LV AIRGUARD® Non-Potted Gland	TC Globally Approved, Hazardous (Classified) Location Cable Gland TC-ER-HL Cables, Class I Div 2	Feb 2025	151
LV AIRGUARD® Liquid Sealing Gland	PXSS2K-REX Globally Approved, Hazardous (Classified) Location Barrier Cable Gland TC-ER-HL Cables, Class I Div 1	Feb 2025	152
LV AIRGUARD® Putty Sealing Gland 424BT Series	TC-ER-HL Cables, Class I Div 1	Feb 2025	153

AIRGUARD®EX VFD

XLPE/Polymeric Armor/PVC, Low-Voltage Power
UL Type TC-ER-HL 600V or UL Type TC-ER 1000V

Product Construction:

Conductor:

- 4 AWG thru 750 kcmil annealed bare copper per ASTM B3, Class B stranding per ASTM B8
- 14 AWG thru 6 AWG annealed bare copper per ASTM B3, Class C stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 4

Ground Conductor(s):

- Annealed stranded tinned copper per ASTM B33
- Three split ground wires are sized in accordance with NEC Table 250.122

Shield:

- Overall shielded is Flexfoil® aluminum/polymer in contact with stranded tinned copper ground wire

Polymeric Armor:

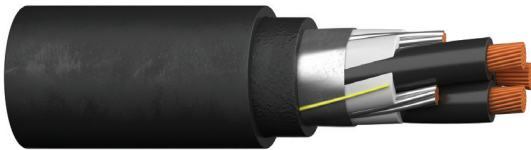
- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

Jacket:

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

Applications:

- Variable Frequency Drives: 3-conductor AIRGUARD®EX cables with three (3) symmetrical ground wires are the preferred wiring method for use with AC motors controlled by pulse-width modulated inverters in VFD applications



Applications (cont'd):

- 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

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C
- Type TC-ER-HL versions meets crush and impact requirements of Type MC-HL cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation

Compliances:

Industry Compliances:

- NEC Type XHHW-2 conductors
- UL 1277 Type TC-ER-HL, UL File # E57179
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 1202/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 NUMBER	NUMBER AND CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	NUMBER & GROUND CONDUCTOR SIZE (AWG)	JACKET THICKNESS (mils)	NOMINAL OVERALL CABLE O.D. (in)	NOMINAL CABLE WEIGHT (lbs/kft)	*AMPACITY (AMPS)
AIRGUARD®Ex Low-Voltage Power, 3/C VFD 600 Volt or 1000 Volt							
10000.01403318	3/C #14	30	3 - #18	60	0.54	167	25
10000.01203316	3/C #12	30	3 - #16	60	0.58	208	30
10000.01003314	3/C #10	30	3 - #14	60	0.63	269	40
10000.00803314	3/C #8	45	3 - #14	60	0.77	386	55
10000.00603312	3/C #6	45	3 - #12	80	0.89	560	75
10000.00403312	3/C #4	45	3 - #12	80	0.97	729	95
10000.00203310	3/C #2	45	3 - #10	80	1.10	1027	130
10000.00103310	3/C #1	55	3 - #10	80	1.21	1235	145
10000.11003310	3/C #1/0	55	3 - #10	80	1.29	1473	170
10000.21003310	3/C #2/0	55	3 - #10	80	1.40	1771	195
10000.31003308	3/C #3/0	55	3 - #8	80	1.48	2178	225
10000.41003308	3/C #4/0	55	3 - #8	80	1.61	2651	260
10000.25003308	3/C #250	65	3 - #8	110	1.83	3179	290
10000.35003306	3/C #350	65	3 - #6	110	2.05	4283	350
10000.50003306	3/C #500	65	3 - #6	110	2.32	5754	430
10000.75003304	3/C #750	80	3 - #4	140	2.82	8669	535

The above dimensions are approximate and subject to normal manufacturing tolerances.

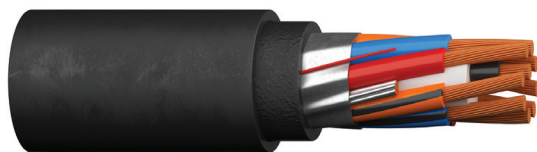
‡ Per 2023 NEC Table 310.16 *Allowable Ampacities of Insulated Conductors Rated up to and including 2000 Volts, 60°C through 90°C (140°F through 194°F), Not More Than Three Current-Carrying Conductors"



AIRGUARD®EX

XLPE/Polymeric Armor/PVC, Control

UL Type TC-ER-HL 600V or UL Type TC-ER 1000V

**Product Construction:****Conductor:**

- 14 AWG thru 10 AWG annealed bare copper per ASTM B3, Class C 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)

Ground Conductor(s):

- Annealed stranded tinned copper per ASTM B33
- Single ground wire is sized in accordance with NEC Table 250.122

Shield:

- Overall shielded is Flexfoil® aluminum/polymer in contact with stranded tinned copper ground wire

Polymeric Armor:

- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

Jacket:

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

Applications:

- 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

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C

Features (cont'd):

- Type TC-ER-HL versions meets crush and impact requirements of Type MC-HL cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation

Compliances:**Industry Compliances:**

- NEC Type XHHW-2 conductors
- UL 1277 Type TC-ER-HL, UL File # E57179
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 1202/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 NUMBER	NUMBER AND CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	GROUND CONDUCTOR SIZE (AWG)	JACKET THICKNESS (mils)	NOMINAL OVERALL CABLE O.D. (in)	NOMINAL CABLE WEIGHT (lbs/kft)
AIRGUARD®Ex Control with Ground Conductor 600 Volt or 1000 Volt						
10050.01404114	4/C #14	30	#14	60	0.57	201
10050.01405114	5/C #14	30	#14	60	0.61	230
10050.01407114	7/C #14	30	#14	60	0.65	277
10050.01409114	9/C #14	30	#14	60	0.73	335
10050.01412114	12/C #14	30	#14	60	0.80	408
10050.01419114	19/C #14	30	#14	80	0.81	474
10050.01437114	37/C #14	30	#14	80	0.96	734
10050.01204112	4/C #12	30	#12	60	0.62	256
10050.01205112	5/C #12	30	#12	60	0.66	295
10050.01207112	7/C #12	30	#12	60	0.71	361
10050.01209112	9/C #12	30	#12	60	0.80	440
10050.01212112	12/C #12	30	#12	80	0.80	479
10050.01004110	4/C #10	30	#10	60	0.67	335

The above dimensions are approximate and subject to normal manufacturing tolerances.

AIRGUARD®

PVC/Nylon/Polymeric Armor/PVC, Instrumentation
UL Type TC-ER-HL 600V - Onshore Rated

Product Construction:

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

- Insulation:
- Flame-retardant Polyvinyl Chloride (PVC) with 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 alphanumerically for easy identification

- Individual and Overall Shield:
- Individual pairs are 100% shielded with Flexfoil® aluminum/polyester in contact with 20 AWG stranded tinned copper drain wire
 - Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire as the same size of insulated conductor

- Polymeric Armor:
- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

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



- Applications:
- 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

- Features:
- Rated at 75°C wet or 90°C dry
 - Ripcord applied to all cables with jacket of 60 mils or less
 - Meets cold bend test at -40°C
 - Type TC-ER-HL versions meets crush and impact requirements of Type MC-HL cables.
 - Sunlight- and weather-resistant
 - Excellent flame resistance
 - Excellent physical, thermal and electrical properties
 - Excellent moisture resistance
 - Good resistance to abrasion and heat deformation
 - Provides excellent oil and chemical resistance

- Compliances:
- Industry Compliances:
- NEC Type TFN conductors
 - UL 1277 Type TC-ER-HL, UL File # E57179
 - ICEA S-73-532/NEMA WCS7
- Flame Test Compliances:
- UL 1685 Vertical Flame Test
 - 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 nonreturnable wood reels

PRODUCT NUMBER	NUMBER AND CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)		JACKET THICKNESS (mils)	NOMINAL OVERALL CABLE O.D. (in)	NOMINAL CABLE WEIGHT (lbs/kft)
		Avg PVC	Min Nylon			
Instrumentation – Low Voltage 600 V – IS/OS Cables – Onshore Rated						
10200.01801001	1/PR #18	15	4	45	0.51	132
10200.01801002	1/TR #18	15	4	45	0.52	147
10200.01802001	2/PR #18	15	4	60	0.66	229
10200.01804001	4/PR #18	15	4	60	0.73	294
10200.01808001	8/PR #18	15	4	80	0.91	468
10200.01601001	1/PR #16	15	4	45	0.53	144
10200.01601002	1/TR #16	15	4	60	0.57	178
10200.01602001	2/PR #16	15	4	60	0.72	270
10200.01604001	4/PR #16	15	4	60	0.79	343
10200.01604002	4/TR #16	15	4	80	0.93	456
10200.01608001	8/PR #16	15	4	80	0.99	557
10200.01612001	12/PR #16	15	4	80	1.15	725
10200.01612002	12/TR #16	15	4	80	1.27	907
10200.01624001	24/PR #16	15	4	80	1.45	1266
10200.01636001	36/PR #16	15	4	110	1.79	1670

The above dimensions are approximate and subject to normal manufacturing tolerances.

AIRGUARD®XLPE/Polymeric Armor/PVC, Instrumentation
UL Type TC-ER-HL 600V - Marine Rated**Product Construction:****Conductor:**

- 18 AWG and 16 AWG annealed bare 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

Individual and Overall Shielded Pairs:

- Individual pairs are 100% shielded with Flexfoil® aluminum/polyester in contact with 20 AWG stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire as the same size of insulated conductor

Polymeric Armor:

- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

Jacket:

- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

Applications:

- 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

Features:

- Rated at 75°C wet or 90°C dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type TC-ER-HL versions meets crush and impact requirements of Type MC-HL cables.
- Sunlight- and weather-resistant

Features (cont'd):

- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides excellent oil and chemical resistance

Compliances:**Industry Compliances:**

- NEC Type XHHW-2 conductors
- UL 1277 Type TC-ER-HL, UL File # E60544/E83287
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- 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 NUMBER	NUMBER AND CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	JACKET THICKNESS (mils)	NOMINAL OVERALL CABLE O.D. (in)	NOMINAL CABLE WEIGHT (lbs/kft)
Instrumentation – Low Voltage 600 V – IS/OS Cables – Marine Rated					
10250.01801001	1/PR #18	30	45	0.58	160
10250.01801002	1/TR #18	30	45	0.60	179
10250.01802001	2/PR #18	30	60	0.77	274
10250.01804001	4/PR #18	30	80	0.89	375
10250.01808001	8/PR #18	30	80	1.07	557
10250.01601001	1/PR #16	30	45	0.50	177
10250.01601002	1/TR #16	30	60	0.62	199
10250.01602001	2/PR #16	30	60	0.76	299
10250.01604001	4/PR #16	30	60	0.92	412
10250.01604002	4/TR #16	30	80	1.04	513
10250.01608001	8/PR #16	30	80	1.10	632
10250.01612001	12/PR #16	30	80	1.28	825
10250.01612002	12/TR #16	30	80	1.51	1097
10250.01624001	24/PR #16	30	80	1.68	1395

The above dimensions are approximate and subject to normal manufacturing tolerances.

AIRGUARD®

XLPE/Polymeric Armor/PVC, Control
UL Type TC-ER-HL 600V or 1000V

Product Construction:

Conductor:

- 14 AWG thru 10 AWG annealed 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)

Polymeric Armor:

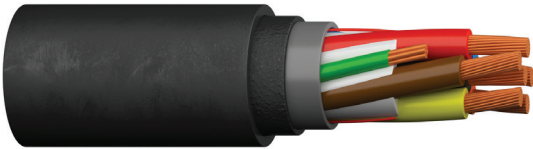
- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

Jacket:

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

Applications:

- 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



Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type TC-ER-HL versions meets crush and impact requirements of Type MC-HL cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides excellent oil and chemical resistance

Compliances:

Industry Compliances:

- NEC Type XHHW-2 conductors
- UL 1277 Type TC-ER-HL, UL File # E60544/E83287
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- 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 NUMBER	NUMBER AND CIRCUIT CONDUCTOR SIZE (AWG)	GREEN GROUND CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	JACKET THICKNESS (mils)	NOMINAL OVERALL CABLE O.D. (in)	NOMINAL CABLE WEIGHT O.D. (lbs/kft)
Control – Low Voltage 600 V/1000 V						
10300.01402114	2/C #14 + Grd	#14	30	60	0.63	213
10300.01404114	4/C #14 + Grd	#14	30	60	0.73	283
10300.01204112	4/C #12 + Grd	#12	30	60	0.77	344
10300.01004110	4/C #10 + Grd	#10	30	60	0.78	429
10300.01406114	6/C #14 + Grd	#14	30	60	0.77	331
10300.01206112	6/C #12 + Grd	#12	30	60	0.82	410
10300.01006110	6/C #10 + Grd	#10	30	80	0.93	559
10300.01407114	7/C #14 + Grd	#14	30	60	0.81	368
10300.01007110	7/C #10 + Grd	#10	30	80	0.99	627
10300.01408114	8/C #14 + Grd	#14	30	80	0.89	432
10300.01208112	8/C #12 + Grd	#12	30	80	0.96	536
10300.01009110*	9/C #10 + Grd	#10	30	80	1.05	753
10300.01411114	11/C #14 + Grd	#14	30	80	0.96	511
10300.01212112*	12/C #12 + Grd	#12	30	80	1.04	694
10300.01419114*	19/C #14 + Grd	#14	30	80	1.07	715
10300.01219112*	19/C #12 + Grd	#12	30	80	1.16	928

The above dimensions are approximate and subject to normal manufacturing tolerances.
* Materials have 1 bare equipment ground and an overall shield.

AIRGUARD®XLPE/Polymeric Armor/PVC, Low-Voltage Power
UL Type TC-ER-HL 600V or 1000V**Product Construction:****Conductor:**

- 14 AWG thru 1/0 AWG annealed 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)

Polymeric Armor:

- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

Jacket:

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

Applications:

- 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

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -40°C
- Type TC-ER-HL versions meets crush and impact requirements of Type MC-HL cables.
- Sunlight- and weather-resistant

Features (cont'd):

- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides excellent oil and chemical resistance

Compliances:**Industry Compliances:**

- NEC Type XHHW-2 conductors
- UL 1277 Type TC-ER-HL, UL File #E60544/E83287
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- 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 NUMBER	NUMBER AND CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	NUMBER & GROUND CONDUCTOR SIZE (AWG)	JACKET THICKNESS (mils)	NOMINAL OVERALL CABLE O.D. (in)	NOMINAL CABLE WEIGHT (lbs/kft)	*AMPACITY (AMPS)
Power – Low Voltage – 3/C & 4/C – 600 V/1000 V							
10350.01403318	3/C #14	30	3 - #18	60	0.63	230	25
10350.01404114	4/C #14	30	1 - #14	60	0.69	263	20
10350.01203316	3/C #12	30	3 - #16	60	0.67	281	30
10350.01204112	4/C #12	30	1 - #12	60	0.73	320	24
10350.01003314	3/C #10	30	3 - #14	60	0.72	355	40
10350.01004110	4/C #10	30	1 - #10	60	0.79	408	32
10350.00803314	3/C #8	45	3 - #14	80	0.89	521	55
10350.00804110	4/C #8	45	1 - #10	80	0.97	603	44
10350.00603312	3/C #6	45	3 - #12	80	0.96	675	75
10350.00604108*	4/C #6	45	1 - #8	80	1.06	782	60
10350.00403312*	3/C #4	45	3 - #12	80	1.09	923	95
10350.00203310*	3/C #2	45	3 - #10	80	1.22	1264	130
10350.00204106*	4/C #2	45	1 - #6	80	1.31	1442	104
10350.11003310*	3/C #1/0	55	3 - #10	80	1.42	1836	170

The above dimensions are approximate and subject to normal manufacturing tolerances.

For sizes above 1/0 AWG use VFD Power Cable

* Per 2023 NEC Table 310.16 "Allowable Ampacities of Insulated Conductors Rated up to and including 2000 Volts, 60°C through 90°C (140°F through 194°F), Not More Than Three Current-Carrying Conductors"

*Cables not marked "-HL" (per UL 2225, cables with an overall OD of 1 inch or greater need to be shielded to be marked "-HL")

AIRGUARD®VFD

XLPE/Polymeric Armor/PVC, Low-Voltage Power
UL Type TC-ER-HL 600V or 1000

Product Construction:

- Conductor:
- 14 AWG thru 500 AWG annealed 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)
- Polymeric Armor:
- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

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

- Applications:
- 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



- Features:
- Rated at 90°C wet or dry
 - Ripcord applied to all cables with jacket of 60 mils or less
 - Meets cold bend test at -40°C
 - Type TC-ER-HL versions meets crush and impact requirements of Type MC-HL cables.
 - Sunlight- and weather-resistant
 - Excellent flame resistance
 - Excellent physical, thermal and electrical properties
 - Excellent moisture resistance
 - Good resistance to abrasion and heat deformation
 - Provides excellent oil and chemical resistance

- Compliances:
- Industry Compliances:
- NEC Type XHHW-2 conductors
 - UL 1277 Type TC-ER-HL, UL File # E60544/E83287
 - ICEA S-95-658/NEMA WC70

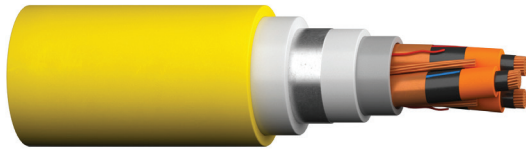
- Flame Test Compliances:
- UL 1685 Vertical Flame Test
 - IEEE 1202
 - CSA FT4
- Other Compliances:
- EPA 40 CFR, Part 261 for leachable lead content per TCLP
 - OSHA Acceptable
 - RoHS Compliant
- Packaging:
- Material cut to length and shipped on non-returnable wood reels

PRODUCT NUMBER	NUMBER AND CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	NUMBER & GROUND CONDUCTOR SIZE (AWG)	JACKET THICKNESS (mils)	NOMINAL OVERALL CABLE O.D. (in)	NOMINAL CABLE WEIGHT (lbs/kft)	*AMPACITY (AMPS)
VFD – Low Voltage – 3/C – 600 V/1000 V							
10400.01403318	3/C #14	30	3 - #18	60	0.63	247	25
10400.01203316	3/C #12	30	3 - #16	60	0.67	297	30
10400.01003314	3/C #10	30	3 - #14	60	0.73	374	40
10400.00803314	3/C #8	45	3 - #14	80	0.89	542	55
10400.00603312	3/C #6	45	3 - #12	80	0.97	701	75
10400.00403312	3/C #4	45	3 - #12	80	1.09	960	95
10400.00203310	3/C #2	45	3 - #10	80	1.23	1309	130
10400.11003310	3/C #1/0	55	3 - #10	80	1.41	1872	170
10400.21003310	3/C #2/0	55	3 - #10	80	1.51	2273	195
10400.31003308	3/C #3/0	55	3 - #8	80	1.62	2766	225
10400.41003308	3/C #4/0	55	3 - #8	80	1.80	3398	260
10400.25003308	3/C 250	65	3 - #8	110	2.02	3903	290
10400.35003307	3/C 350	65	3 - #7	110	2.24	5220	350
10400.50003306	3/C 500	65	3 - #6	110	2.51	6940	430

‡ Per 2023 NEC Table 310.16 "Allowable Ampacities of Insulated Conductors Rated up to and including 2000 Volts, 60°C through 90°C (140°F through 194°F), Not More Than Three Current-Carrying Conductors" The above dimensions are approximate and subject to normal manufacturing tolerances.

AIRGUARD®

EPR/Copper Tape Shield/Polymeric Armor/PVC Shielded
UL Type MV-105, 5kV and 8kV, 133%/100% Ins. Level

**Product Construction:****Conductor:**

- 2 AWG thru 750 kcmil annealed bare copper per ASTM B3
- Compact Class B stranding per ASTM B496

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Ground Conductor:

- 1 bare ground conductor may be in contact with metallic shielding tape

Polymeric Armor:

- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

Overall Jacket:

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

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, moisture and sunlight resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption

Features (cont'd):

- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend and cold impact test at -40°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:**Industry Compliances:**

- UL 1072 Type MV105, UL File # E518856
- ICEA S-93-639 / NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- 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

PRODUCT NUMBER	CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	GROUND WIRES		NOM. COND. O.D. (in)	NOM. INSULATION O.D. (in)	NOM. EIS O.D. (in)	NOM. OVERALL CABLE O.D. (in)	NOM. CABLE WEIGHT (lbs/kft)	†AMPACITY (AMPS)					
										CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		UNCOVERED TRAY (3)	
			#	Size						90°C	105°C	90°C	105°C	90°C	105°C

5kV 133%/8kV 100% Copper Three Conductor

10500.00203310	2 AWG CU	115	3	#10	0.27	0.56	0.6	1.85	2182	145	165	150	160	165	185
10500.11003308	1/0 AWG CU	115	3	#8	0.34	0.63	0.68	2.05	2914	195	215	195	210	215	240
10500.21003308	2/0 AWG CU	115	3	#8	0.38	0.67	0.71	2.13	3281	220	245	220	235	245	275
10500.41003307	4/0 AWG CU	115	3	#7	0.47	0.76	0.76	2.32	4344	290	320	285	305	325	360
10500.25003306	250 AWG CU	115	3	#6	0.53	0.82	0.86	2.46	4974	315	350	310	335	360	400
10500.35003306	350 AWG CU	115	3	#6	0.62	0.91	0.96	2.67	6247	385	430	375	400	435	490
10500.50003305	500 AWG CU	115	3	#5	0.74	1.03	1.08	3.00	8349	470	525	450	485	535	600
10500.75003304	750 AWG CU	115	3	#4	0.92	1.22	1.27	3.44	11635	570	635	545	585	670	745

The above dimensions are approximate and subject to normal manufacturing tolerances.

†Ampacities are based on the following:

1) Ampacities are in accordance with Table 315.60(C)(9) of the 2023 NEC for three conductor copper cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 315.60(C)(13) of the 2023 NEC for three conductor copper cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 315.60(D)(3) Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on three conductor cables installed with at least one OD between cables in an uncovered tray in accordance with Section 392.80(B)(1)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 100% of the values per Table 315.60(C)(5), operating temperature denoted in column header.

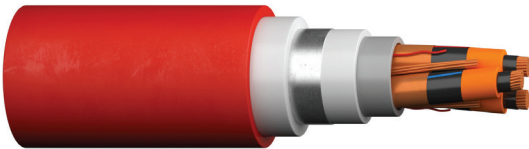
EPRONAX™ EPR-insulated cables are capable of operating at 105°C. However, the maximum operating temperature of the cable should be based on the maximum operating temperature of the cable accessories to be used.

AIRGUARD®

EPR/Copper Tape Shield/Polymeric Armor/PVC, Shielded
UL Type MV-105, 15kV, 133% Ins. Level

Product Construction:

- Conductor:**
 - 2 AWG thru 1000 kcmil annealed bare copper per ASTM B3
 - Compact Class B stranding per ASTM B496
- Extruded Strand Shield (ESS):**
 - Extruded thermoset semi-conducting stress-control layer over conductor
- Insulation:**
 - Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers
- Extruded Insulation Shield (EIS):**
 - Thermoset semi-conducting polymeric layer free stripping from insulation
- Metallic Shield:**
 - Annealed copper tape with an overlap of 25%
- Ground Conductor:**
 - 1 bare ground conductor may be in contact with metallic shielding tape
- Polymeric Armor:**
 - High strength and high crush resistant Air Bag™ layer extruded over the core assembly
- Overall Jacket:**
 - Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)



- 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, moisture and sunlight 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 and cold impact test at -40°C
 - 105°C rating for continuous operation
 - 140°C rating for emergency overload conditions
 - 250°C rating for short circuit conditions
- Compliances:**

Industry Compliances:
 - UL 1072 Type MV105, UL File # E518856
 - ICEA S-93-639 / NEMA WC74
 - ICEA S-97-682
 - AEIC CS8-13 (AEIC CS8-20, Optional)

Flame Test Compliances:
 - UL 1685 Vertical Flame Test
 - 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

PRODUCT NUMBER	CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	GROUND WIRES		NOM. COND. O.D. (in)	NOM. INSULATION O.D. (in)	NOM. EIS O.D. (in)	NOM. OVERALL CABLE O.D. (in)	NOM. CABLE WEIGHT (lbs/kft)	†AMPACITY (AMPS)					
										CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		UNCOVERED TRAY (3)	
			#	Size						90°C	105°C	90°C	105°C	90°C	105°C

15kV 133% Copper Three Conductor

10550.00203310	2 AWG CU	220	3	#10	0.27	0.76	0.8	2.34	3147	145	165	150	160	165	185
10550.11003308	1/0 AWG CU	220	3	#8	0.34	0.83	0.88	2.48	3830	195	215	195	210	215	240
10550.21003308	2/0 AWG CU	220	3	#8	0.38	0.86	0.91	2.56	4228	220	245	220	235	245	275
10550.41003307	4/0 AWG CU	220	3	#7	0.47	0.96	1.02	2.75	5370	290	320	285	305	325	360
10550.25003306	250 AWG CU	220	3	#6	0.53	1.01	1.06	2.89	6054	315	350	310	335	360	400
10550.35003306	350 AWG CU	220	3	#6	0.62	1.11	1.16	3.20	7652	385	430	375	400	435	490
10550.50003305	500 AWG CU	220	3	#5	0.74	1.23	1.28	3.48	9745	470	525	450	485	535	600
10550.75003304	750 AWG CU	220	3	#4	0.92	1.42	1.47	3.87	13102	570	635	545	585	670	745
10550.10003303	1000 MCM CU	220	3	#3	1.07	1.57	1.62	4.22	16432	650	725	615	660	770	860

The above dimensions are approximate and subject to normal manufacturing tolerances.

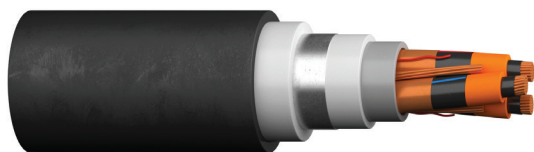
†Ampacities are based on the following:

(1) Ampacities are in accordance with Table 315.60(C)(9) of the 2023 NEC for three conductor copper cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 315.60(C)(13) of the 2023 NEC for three conductor copper cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 315.60(D)(3) Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on three conductor cables installed with at least one OD between cables in an uncovered tray in accordance with Section 392.80(B)(1)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 100% of the values per Table 315.60(C)(5), operating temperature denoted in column header.

EPROTENAX™ EPR-insulated cables are capable of operating at 105°C. However, the maximum operating temperature of the cable should be based on the maximum operating temperature of the cable accessories to be used.

AIRGUARD®EPR/Copper Tape Shield/Polymeric Armor/PVC, Shielded
UL Type MV-105, 25kV, 133% Ins. Level**Product Construction:****Conductor:**

- 1/0 AWG thru 1000 kcmil annealed bare copper per ASTM B3
- Compact Class B stranding per ASTM B496

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

- Annealed copper tape with an overlap of 25%

Ground Conductor:

- 1 bare ground conductor may be in contact with metallic shielding tape

Polymeric Armor:

- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

Overall Jacket:

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

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, moisture and sunlight resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption

Features (cont'd):

- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend and cold impact test at -40°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:**Industry Compliances:**

- UL 1072 Type MV105, UL File # E518856
- ICEA S-93-639 / NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- 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

PRODUCT NUMBER	CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	GROUND WIRES		NOM. COND. O.D. (in)	NOM. INSULATION O.D. (in)	NOM. EIS O.D. (in)	NOM. OVERALL CABLE O.D. (in)	NOM. CABLE WEIGHT (lbs/ft)	†AMPACITY (AMPS)					
										CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		UNCOVERED TRAY (3)	
			#	Size						90°C	105°C	90°C	105°C	90°C	105°C

25kV 133% Copper Three Conductor# Size

10600.11003308	1/0 AWG CU	320	3	#8	0.34	1.03	1.08	2.88	4855	195	215	195	210	215	240
10600.21003308	2/0 AWG CU	320	3	#8	0.38	1.06	1.12	3.01	5410	220	245	220	235	245	275
10600.41003307	4/0 AWG CU	320	3	#7	0.47	1.16	1.22	3.28	6811	290	320	285	305	325	360
10600.25003306	250 AWG CU	320	3	#6	0.53	1.24	1.30	3.45	7667	315	350	310	335	360	400
10600.35003306	350 MCM CU	320	3	#6	0.62	1.31	1.37	3.60	8962	385	430	375	400	435	490
10600.50003305	500 MCM CU	320	3	#5	0.74	1.43	1.49	3.86	11097	470	525	450	485	535	600
10600.75003304	750 MCM CU	320	3	#4	0.92	1.62	1.67	4.28	14730	570	635	545	585	670	745
10600.10003303	1000 MCM CU	320	3	#3	1.07	1.77	1.83	4.65	18141	650	725	615	660	770	860

The above dimensions are approximate and subject to normal manufacturing tolerances.

†Ampacities are based on the following:

(1) Ampacities are in accordance with Table 315.60(C)(9) of the 2023 NEC for three conductor copper cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 315.60(C)(13) of the 2023 NEC for three conductor copper cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 315.60(D)(3) Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on three conductor cables installed with at least one OD between cables in an uncovered tray in accordance with Section 392.80(B)(1)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 100% of the values per Table 315.60(C)(5), operating temperature denoted in column header.

EPRONAX™ EPR-insulated cables are capable of operating at 105°C. However, the maximum operating temperature of the cable should be based on the maximum operating temperature of the cable accessories to be used.

AIRGUARD®

EPR/Copper Tape Shield/Polymeric Armor/PVC, Shielded
UL Type MV-105, 35kV, 133% Ins. Level

Product Construction:

- Conductor:
- 1/0 AWG thru 1000 kcmil annealed bare copper per ASTM B3
 - Compact Class B stranding per ASTM B496

- Extruded Strand Shield (ESS):
- Extruded thermoset semi-conducting stress-control layer over conductor

- Insulation:
- Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

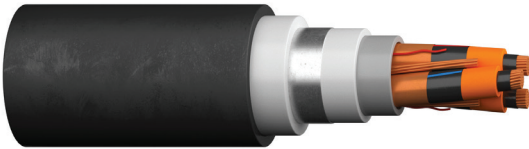
- Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation

- Metallic Shield:
- Annealed copper tape with an overlap of 25%

- Grounding Conductor:
- 1 bare grounding conductor may be in contact with metallic shielding tape

- Polymeric Armor:
- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

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



- 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, moisture and sunlight 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 and cold impact test at -40°C
 - 105°C rating for continuous operation
 - 140°C rating for emergency overload conditions
 - 250°C rating for short circuit conditions

- Compliances:
- Industry Compliances:
- UL 1072 Type MV105, UL File # E518856
 - ICEA S-93-639 / NEMA WC74
 - ICEA S-97-682
 - AEIC CS8-13 (AEIC CS8-20, Optional)

- Flame Test Compliances:
- UL 1685 Vertical Flame Test
 - 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

PRODUCT NUMBER	CIRCUIT CONDUCTOR SIZE (AWG)	INSULATION THICKNESS (mils)	GROUND WIRES		NOM. COND. O.D. (in)	NOM. INSULATION O.D. (in)	NOM. EIS O.D. (in)	NOM. OVERALL CABLE O.D. (IN)	CABLE WEIGHT (lbs/kft)	†AMPACITY (AMPS)					
										CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		UNCOVERED TRAY (3)	
			#	Size						90°C	105°C	90°C	105°C	90°C	105°C

35kV 133% Copper Three Conductor

10650.11003308	1/0 AWG CU	420	3	#8	0.34	1.22	1.27	3.39	6291	195	215	195	210	215	240
10650.21003308	2/0 AWG CU	420	3	#8	0.38	1.24	1.31	3.50	7326	220	245	220	235	245	275
10650.41003307	4/0 AWG CU	420	3	#7	0.47	1.35	1.41	3.69	8130	290	320	285	305	325	360
10650.25003306	250 AWG CU	420	3	#6	0.53	1.40	1.46	3.78	9472	315	350	310	335	360	400
10650.35003306	350 MCM CU	420	3	#6	0.62	1.5	1.56	4.02	11116	385	430	375	400	435	490
10650.50003305	500 MCM CU	420	3	#5	0.74	1.62	1.68	4.30	12697	470	525	450	485	535	600
10650.75003304	750 MCM CU	420	3	#4	0.92	1.81	1.86	4.73	16566	570	635	545	585	670	745
10650.10003303	1000 MCM CU	420	3	#3	1.07	1.96	2.05	5.00	20786	650	725	615	660	770	860

The above dimensions are approximate and subject to normal manufacturing tolerances.

†Ampacities are based on the following:

(1) Ampacities are in accordance with Table 315.60(C)(9) of the 2023 NEC for three conductor copper cables in isolated conduit in air based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 315.60(C)(13) of the 2023 NEC for three conductor copper cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F) or 105°C (221°F), temperature denoted in column header, and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 315.60(D)(3) Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

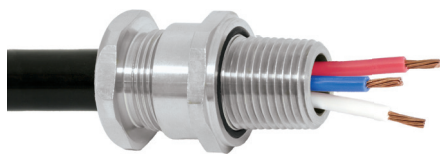
(3) Ampacities are based on three conductor cables installed with at least one OD between cables in an uncovered tray in accordance with Section 392.80(B)(1)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 100% of the values per Table 315.60(C)(5), operating temperature denoted in column header.

EPROTENAX™ EPR-insulated cables are capable of operating at 105°C. However, the maximum operating temperature of the cable should be based on the maximum operating temperature of the cable accessories to be used.

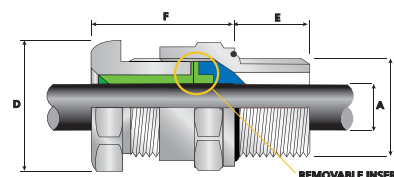
LV AIRGUARD® Non-Potted Gland

TC Globally Approved, Hazardous (Classified) Location Cable Gland

TC-ER-HL Cables, Class I Div 2



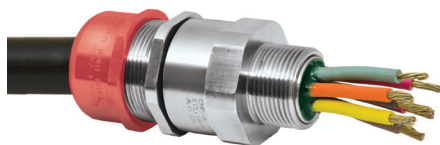
- Standard material is aluminum. Nickel-plated brass available as made-to-order.
- Increased cable range with removable insert
- Optional thread sizes
- Operating Temp: -76°F to 230°F
- Class I Division 2 ABCD
- Class I Zone 1 & 21 AExe
- Globally marked, cCSAus, IECEx & ATEX
- Heavy duty design



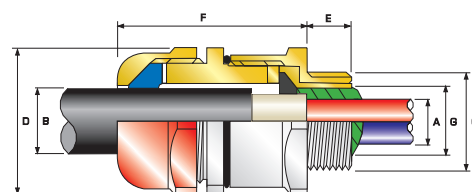
PRODUCT NUMBER	ENTRY THREAD "C"		MINIMUM THREAD LENGTH "E"	CABLE RANGE "A"		CABLE RANGE "A"		ACROSS FLATS "D"	ACROSS FLATS "D"	NOMINAL ASSEMBLY LENGTH "F"	APPROX WEIGHT ALUMINUM (OZs)
	NPT	NPT OPTION		INSERT		NO INSERT					
ALUMINUM				MIN	MAX	MIN	MAX	MAX	MAX		
TC-050A028	1/2"		0.78	0.126	0.276			1.201	1.321	1.200	1.94
TC-075A028		3/4"	0.80					1.476	1.594	1.240	1.69
TC-050A055	1/2"		0.78	0.256	0.406	0.406	0.551	1.201	1.323	1.200	1.94
TC-075A055		3/4"	0.80					1.476	1.626	1.240	1.69
TC-075A079	3/4"		0.80	0.437	0.610	0.610	0.787	1.476	1.626	1.240	1.69
TC-100A079		1"	0.98					1.811	1.957	1.650	3.17
TC-100A104	1"		0.98	0.669	0.854	0.854	1.035	1.811	1.992	1.650	3.88
TC-125A104		1 1/4"	1.01					2.047	2.213		
TC-125A127	1 1/4"		1.01	0.925	1.098	1.098	1.268	2.047	2.252	1.650	4.94
TC-150A127		1 1/2"	1.03					2.362	2.551		
TC-150A150	1 1/2"		1.03	1.220	1.366	1.366	1.504	2.362	2.598	1.650	6.00
TC-200A150		2"	1.06					2.953	3.189		
TC-200A174	2"		1.06			1.402	1.736	2.756	2.976	1.630	8.64
TC-250A174		2 1/2"	1.57					3.543	3.827		
TC-200A197	2"		1.06			1.634	1.972	2.756	2.031	1.740	8.29
TC-250A197		2 1/2"	1.57					3.543	3.827		
TC-250A220	2 1/2"		1.57			1.858	2.205	3.543	3.827	1.740	13.58
TC-300A220		3"	1.63					4.331	4.677		
TC-250A244	2 1/2"		1.57			2.126	2.441	3.543	3.898	1.790	13.58
TC-300A244		3"	1.63					4.331	4.677		
TC-300A268	3"		1.63			2.406	2.677	4.331	4.677	1.790	23.63
TC-350A268		3 1/2"	1.69					4.843	5.228		
TC-350A315	3 1/2"		1.69			2.622	3.150	4.843	5.228	2.500	34.22
TC-400A315		4"	1.73					5.252	5.669		
TC-400A354	4"		1.73			2.992	3.543	5.252	5.669	2.360	38.80

LV AIRGUARD® Liquid Sealing Gland

PXSS2K-REX Globally Approved, Hazardous (Classified) Location Barrier Cable Gland
TC-ER-HL Cables, Class I Div 1



- Liquid pour sealing system
- Reduces installation time and labor
- Reduces time to service.
- 35min cure time at 68F.
- Faster than putty filled.
- Standard material is nickel-plated brass.
- Superior levels of cable retention
- Displacement type environmental seal
- Designed to prevent cold flow
- Deluge protected
- Disconnectable, union feature design
- Operating Temp:-76°F to 185°F / -60°C to 85°C
- Class I Division 1 & 2 ABCD, Class I Zone 1, 21, 2 & 22
- Globally marked, cCSAus, IECEx & ATEX
- As standard in nickel plated brass with NPT thread form

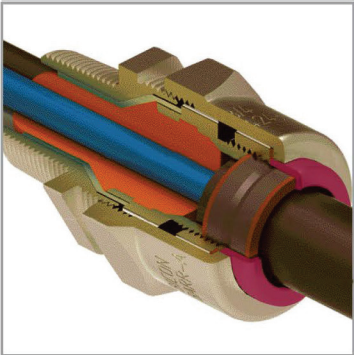


CABLE GLAND SIZE	AVAILABLE ENTRY THREADS "C" (ALTERNATE METRIC THREAD LENGTHS AVAILABLE)				NUMBER OF CORES	DIAMETER OVER CONDUCTORS "A"	CABLE BEDDING DIAMETER "C"	OVERALL CABLE DIAMETER "B"		ACROSS FLATS "D"	ACROSS CORNERS "D"	PROTRUSION LENGTH "F"	COMBINED ORDERING REFERENCE ("NICKEL PLATED BRASS NPT")			SHROUD	CABLE GLAND WEIGHT (OZS)
	NPT	NPT (OPTION)	METRIC (OPTION)	THREAD LENGTH (NPT) "E"				MIN	MAX				SIZE	TYPE	ORDERING SUFFIX		
20s16	1/2"	3/4"	M20	0.78	11	0.339	0.339	0.122	0.339	1.181	1.299	2.091	20S16	PXSS2KREX	1RA531	PVC06	7.055
20S	1/2"	3/4"	M20	0.78	11	0.461	0.461	0.240	0.461	1.181	1.299	2.091	20S	PXSS2KREX	1RA531	PVC06	7.055
20	1/2"	3/4"	M20	0.78	11	0.496	0.508	0.256	0.551	1.181	1.299	2.134	20	PXSS2KREX	1RA531	PVC06	7.055
25	3/4"	1"	M25	0.80	21	0.689	0.703	0.437	0.787	1.417	1.559	2.362	25	PXSS2KREX	1RA532	PVC09	11.640
32	1"	1 1/4"	M32	0.98	38	0.929	0.941	0.669	1.035	1.614	1.776	2.406	32	PXSS2KREX	1RA533	PVC10	13.757
40	1 1/4"	1 1/2"	M40	1.01	59	1.181	1.193	0.866	1.264	1.969	2.165	2.457	40	PXSS2KREX	1RA534	PVC13	19.753
50S	1 1/2"	2"	M50	1.03	89	1.441	1.453	1.161	1.504	2.165	2.382	2.567	50S	PXSS2KREX	1RA535	PVC15	23.281
50	2"	2 1/2"	M50	1.06	89	1.614	1.626	1.402	1.732	2.362	2.598	2.661	50	PXSS2KREX	1RA536	PVC18	25.750
63S	2"	2 1/2"	M63	1.06	115	1.886	1.906	1.579	1.965	2.756	3.031	2.799	63S	PXSS2KREX	1RA536	PVC21	37.743
63	2 1/2"	3"	M63	1.57	115	2.114	2.126	1.858	2.201	2.953	3.248	2.772	63	PXSS2KREX	1RA537	PVC23	37.390
75S	2 1/2"	3"	M75	1.57	140	2.358	2.370	2.079	2.437	3.150	3.465	2.965	75S	PXSS2KREX	1RA537	PVC25	45.856
75	3"	3 1/2"	M75	1.63	140	2.528	2.528	2.327	2.673	3.346	3.681	2.949	75	PXSS2KREX	1RA538	PVC27	45.856
90	3 1/2"	4"	M90	1.69	200	2.965	2.976	2.622	3.126	4.252	4.677	3.732	90	PXSS2KREX	1RA539	PVC31	106.527
100	3 1/2"	5"	M100	1.69	200	3.370	3.382	2.992	3.579	4.843	5.327	3.398	100	PXSS2KREX	1RA5310	LSF33	141.096

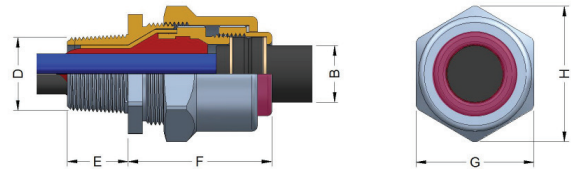
LV AIRGUARD® Putty Sealing Gland

424BT Series

TC-ER-HL Cables, Class I Div 1



- Features and Benefits:**
- Fast, easy installation
 - Large sealing range
 - Space and weight savings
 - Tested to UL and CSA standards
 - Suitable for unarmored tray cables - TC-ER-HL and TC-ER
 - 8hr cure time at 68oF



Technical Information:

- Suitable for unarmored tray cables-category TC-ER-HL
- All parts are brass. Threaded hub is nickel-plated brass.

Connector listed as follows:
1/2" to 3- 1/2" CSA Class I groups ABCD, Class II groups EFG, Class III
1/2" to 1- 1/2" UL Class I groups ABCD (Div 1) with TC-ER-HL cable (up to 1 inch); Class II groups FG (Div 2), Class III
1-1/4" to 3" W' UL Class I groups CD (Div 2); Class II groups FG (Div 2), Class III
For use in most climatic conditions, rated to IP66 for wet location.
For use with explosion proof equipment in Zone 1 and 2 hazardous areas and for Class I, Div 1 & 2 applications.
Full installation instructions supplied.

GLAND REFERENCE		CABLE DIMENSIONS OVERALL ø (B)			GLAND DIMENSIONS			WEIGHT
DESIGN REFERENCE (STANDARD)	HUB SIZE NPT (D)	MIN.	MAX.	HUB LENGTH (E)	PROTRUSION LENGTH (F)	HEXAGON		LBS
						A/F (G)	A/C (H)	
424BT-02	½"	0.35"	0.62"	0.85"	1.85"	1.42"	1.57"	0.66
424BT-03	¾"	0.51"	0.76"	0.86"	1.96"	1.67"	1.89"	0.88
424BT-04	1"	0.67"	1.06"	1.07"	2.08"	1.86"	2.11"	1.10
424BT-05	1 ¼"	0.95"	1.26"	1.10"	2.16"	2.22"	2.42"	1.76
424BT-15	1 ½"	0.95"	1.26"	1.11"	2.16"	2.22"	2.42"	2.09
424BT-06	2"	1.14"	1.65"	1.15"	2.32"	2.76"	3.04"	2.87
424BT-07	2 ½"	1.61"	2.08"	1.70"	2.24"	3.15"	3.44"	4.08
424BT-08	3"	1.96"	2.42"	1.76"	2.83"	3.89"	4.30"	6.64
424BT-09	3 ½"	2.15"	2.91"	1.81"	2.91"	4.18"	4.50"	8.36



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