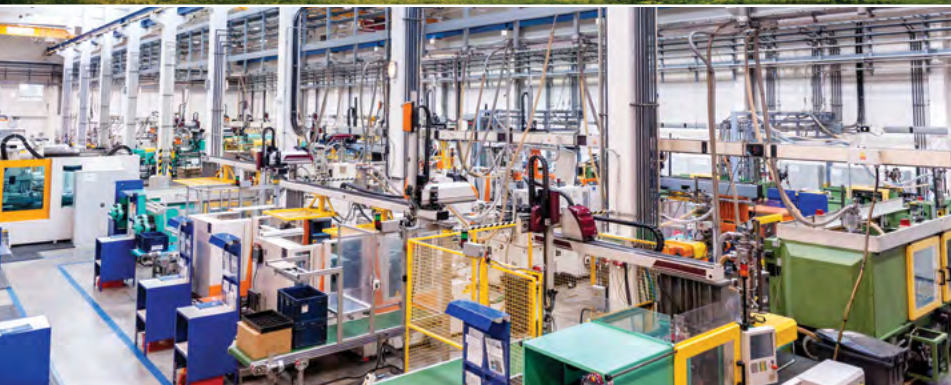




LS Cable & System U.S.A., Inc.



Our Ongoing Commitment To Help You **Enhance Your Business**

Today's growing Energy industries face critical challenges as network infrastructures transform. Networks now require better cable performance in new, harsher environments with minimum transmission losses, while meeting or exceeding industry standards.

LS Cable & System U.S.A., Inc., a global leader in the design, manufacture, and supply of power cable products, is dedicated to helping you achieve your objectives when competing in the ever-changing industry. With the Energy division as your strategic partner, you will deliver high-quality products on time, respond faster to your customers, reach new markets, and improve your inventory planning, all while receiving the best customer service experience. Translation: more captured business.





Helping you deliver high-quality products with our

- US-based manufacturing facilities, registered to ISO 9001:2008
- Products that meet or exceed US industry standards
- Sales teams and technical support that provide you direction and assistance

Boost your ability to capture more business by experiencing our

- Quick quotation turnaround with accurate product information
- Enhanced order processing to minimize order entry errors
- On-going product development, diversifying into new applications and markets
- Up-to-date, online catalog that is easy to navigate

Support your planning and inventory management goals by taking advantage of our

- Manufacturing flexibility, making critical inventory decisions easier
- WIP inventory allocation system to service your special quantities and non-standard cable configurations
- Multiple pricing options, minimizing your exposure to metal fluctuations

Our Energy Cable

The Energy division is committed to becoming your U.S. strategic partner for your Energy product needs. We continuously participate in the development of new products for Instrumentation, Control, and Power applications. Take advantage of our wide array of insulation, jacketing and shielding materials to provide your customers with an extensive line of Energy wire and cable products.

The Energy division services the U.S. Commercial, Industrial, and Utility markets with Low Voltage 300V and 600V instrumentation cables for control systems, audio, intercoms, energy management, and alarm controls; Low Voltage 600V control and power cables for industrial or utility power or station control circuits; and Medium Voltage 5kV through 35kV power cables for primary power and distribution circuits in industrial, commercial, and utility installations.



Table of Contents

Commercial & Industrial

GROUND WIRE

Bare Copper Series E6000	A-4
PVC/Nylon (THHN/THWN-2) 600V Series E5000	A-5
XLPE (XHHW-2) 600V Series E5000	A-6

LV INSTRUMENTATION

PVC/PVC, 300V Type PLTC/ITC-ER Series E1AC	A-8
Overall Shielded Series E1ACB	A-9
Individually and Overall Shielded Series E1ACD	A-9
PVC/Nylon/PVC, 600V Instrumentation, Type TC-ER Series E1BE ..	A-10
Overall Shielded Series E1BEB	A-11
Individually and Overall Shielded Series E1BED	A-11
XLPE/PVC, 600V Instrumentation, Type TC-ER Series E1BF	A-12
Overall Shielded Series E1BFB	A-13
Individually and Overall Shielded Series E1BFD	A-13

LV CONTROL

PVC/Nylon/PVC, 600V Control, Type TC-ER Series E2BE	A-14
Unshielded Series E2BEA	A-15
Overall Shielded Series E2BEB	A-16
XLPE/PVC, 600V Control, Type TC-ER Series E2BF	A-18
Unshielded Series E2BFA	A-19

LV POWER

PVC/Nylon/PVC, 600V Power, Type TC-ER Series E3BE	A-20
Unshielded Series E3BEA	A-21
XLPE/PVC, 600V Power, Type TC-ER Series E3BF	A-22
Unshielded Series E3BFA	A-23

MV-105 POWER

EPR/CTS/PVC Power, Type MV-105, 5kV-35kV	
Series E8 (Copper Conductors)	A-24
Copper Unfilled Cdr 5kV 100% I.L., 90-mils, Shielded	
Series E8ELE	A-25
Copper Unfilled Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded	
Series E8FLE	A-25
Copper Unfilled Cdr 15kV 100% I.L., 175-mils, Shielded	
Series E8HLE	A-25
Copper Unfilled Cdr 15kV 133% I.L., 220-mils, Shielded	
Series E8JLE	A-26
Copper Unfilled Cdr 25kV 100% I.L., 260-mils, Shielded	
Series E8KLE	A-26
Copper Unfilled Cdr 25kV 133% I.L., 320-mils, Shielded	
Series E8LLE	A-26
Copper Unfilled Cdr 35kV 100% I.L., 345-mils, Shielded	
Series E8MLE	A-27
Copper Unfilled Cdr 35kV 133% I.L., 420-mils, Shielded	
Series E8NLE	A-27

MV-105 POWER (CONTINUED)

EPR/CTS/TP-CPE Power, Type MV-105, 5kV-35kV	
Series E8 (Copper Conductors)	A-28
Copper Unfilled Cdr 5kV 100% I.L., 90-mils, Shielded	
Series E8EME	A-29
Copper Unfilled Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded	
Series E8FME	A-29
Copper Unfilled Cdr 15kV 100% I.L., 175-mils, Shielded	
Series E8HME	A-29
Copper Unfilled Cdr 15kV 133% I.L., 220-mils, Shielded	
Series E8JME	A-30
Copper Unfilled Cdr 25kV 100% I.L., 260-mils, Shielded	
Series E8KME	A-30
Copper Unfilled Cdr 25kV 133% I.L., 320-mils, Shielded	
Series E8LME	A-30
Copper Unfilled Cdr 35kV 100% I.L., 345-mils, Shielded	
Series E8MME	A-31
Copper Unfilled Cdr 35kV 133% I.L., 420-mils, Shielded	
Series E8NME	A-31
EPR/CTS/PVC Power, Type MV-105, 5kV-35kV	
Series E8 (Aluminum Conductors)	A-32
Aluminum Unfilled Cdr 5kV 100% I.L., 90-mils, Shielded	
Series E8ELE	A-33
Aluminum Unfilled Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded	
Series E8FLE	A-33
Aluminum Unfilled Cdr 15kV 100% I.L., 175-mils, Shielded	
Series E8HLE	A-33
Aluminum Unfilled Cdr 15kV 133% I.L., 220-mils, Shielded	
Series E8JLE	A-34
Aluminum Unfilled Cdr 25kV 100% I.L., 260-mils, Shielded	
Series E8KLE	A-34
Aluminum Unfilled Cdr 25kV 133% I.L., 320-mils, Shielded	
Series E8LLE	A-34
Aluminum Unfilled Cdr 35kV 100% I.L., 345-mils, Shielded	
Series E8MLE	A-35
Aluminum Unfilled Cdr 35kV 133% I.L., 420-mils, Shielded	
Series E8NLE	A-35

EPR/CTS/PVC Power, Type MV-105, 3 Conductor, 5kV-15kV	
Series E8 (Copper Conductors)	A-36
Copper Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded	
Series E8FLR	A-37
Copper Cdr 15kV 133% I.L., 220-mils, Shielded Series E8JLR	A-37
Copper Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded	
Series E8FMR	A-39
Copper Cdr 15kV 133% I.L., 220-mils, Shielded Series E8JMR	A-39

ALUMINUM INTERLOCK ARMORED

XLPE/AIA/PVC, 600V Control, Type MC Series E2BFP	A-40
XLPE/AIA/PVC, 600V Power, Type MC Series E3BFP	A-42
EPR/CTS/AIA/PVC Power, Type MV-105, 3 Conductor, 5/8kV Yellow	
Series E8	A-44
EPR/CTS/AIA/PVC Power, Type MV-105, 3 Conductor, 15kV Red	
Series E8	A-46

Utility & Renewables

RENEWABLES



Photovoltaic Wire XLPE, Type PV, 600V Series E5A.....	B-4
Photovoltaic Wire XLPE, Type PV, 2000V Series E5A.....	B-5

LV CONTROL



PE/PVC/PVC, 600V Control (20/10) Series E2BD.....	B-6
Unshielded Series E2BDA.....	B-7

LV SECONDARY UD



XLPE, Single 600V Power, UL Type USE-2, Secondary UD Series E9BBA.....	B-8
XLPE, Duplex 600V Power, UL Type USE-2, Secondary UD Series E9BBA.....	B-10
XLPE, Triplex 600V Power, UL Type USE-2, Secondary UD Series E9BBA.....	B-12
XLPE, Quadruplex 600V Power, UL Type USE-2, Secondary UD Series E9BBA.....	B-14
XLPE, Single 600V Power, UL Type USE-2, Secondary UD Series E9BBB with AA-8000 Series Aluminum (Compressed).....	B-16
XLPE, Duplex 600V Power, UL Type USE-2, Secondary UD Series E9BBB with AA-8000 Series Aluminum (Compressed).....	B-18
XLPE, Triplex 600V Power, UL Type USE-2, Secondary UD Series E9BBB with AA-8000 Series Aluminum (Compressed).....	B-20
XLPE, Quadruplex 600V Power, UL Type USE-2, Secondary UD Series E9BBB with AA-8000 Series Aluminum (Compressed).....	B-22



MV PRIMARY UD

TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV Series E9 (Aluminum Conductors).....	B-24
Aluminum Filled, 15kV 100% I.L., 175-mils Series E9HK.....	B-27
Aluminum Filled, 15kV 133% I.L., 220-mils Series E9JK.....	B-27
Aluminum Filled, 25kV 100% I.L., 260-mils Series E9KK.....	B-28
Aluminum Filled, 35kV 100% I.L., 345-mils Series E9MK.....	B-28
Aluminum Unfilled, 15kV 100% I.L., 175-mils Series E9HK.....	B-25
Aluminum Unfilled, 15kV 133% I.L., 220-mils Series E9JK.....	B-25
Aluminum Unfilled, 25kV 100% I.L., 260-mils Series E9KK.....	B-26
Aluminum Unfilled, 35kV 100% I.L., 345-mils Series E9MK.....	B-26
TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV Series E9 (Aluminum Solid Conductor).....	B-30
Aluminum Solid, 15kV 133% I.L., 220-mils Series E9JK.....	B-31
Aluminum Solid, 25kV 100% I.L., 260-mils Series E9KK.....	B-31
TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV Series E9 (Copper Conductors).....	B-32
Copper Unfilled, 15kV 100% I.L., 175-mils Series E9HK.....	B-33
Copper Unfilled, 15kV 133% I.L., 220-mils Series E9JK.....	B-33
Copper Unfilled, 25kV 100% I.L., 260-mils Series E9KK.....	B-34
Copper Unfilled, 35kV 100% I.L., 345-mils Series E9MK.....	B-34
EPR/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV Series E9 (Aluminum Conductors).....	B-38
Aluminum Unfilled, 15kV 133% I.L., 220-mils Series E9JP.....	B-39
Aluminum Unfilled, 25kV 100% I.L., 260-mils Series E9KP.....	B-39
Aluminum Unfilled, 35kV 100% I.L., 345-mils Series E9MP.....	B-40

MV PRIMARY UD (CONTINUED)



EPR/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV Series E9 (Aluminum Solid Conductor).....	B-42
Aluminum Solid, 15kV 133% I.L., 220-mils Series E9JPT.....	B-43
Aluminum Solid, 25kV 100% I.L., 260-mils Series E9KPT.....	B-43
EPR/CN/LLDPE Power, Type MV-90 Primary UD, 15kV-35kV Series E9 (Copper Conductors).....	B-44
Copper Unfilled, 15kV 100% I.L., 175-mils Series E9HP.....	B-45
Copper Unfilled, 15kV 133% I.L., 220-mils Series E9JP.....	B-45
Copper Unfilled, 25kV 100% I.L., 260-mils Series E9KP.....	B-46
Copper Unfilled, 35kV 100% I.L., 345-mils Series E9MP.....	B-46

Commercial



Industrial



Utility Power Distribution



Renewables Wind



Renewables Solar



Commercial



Industrial



GROUND WIRE

Bare Copper Series E6000	A-4
PVC/Nylon (THHN/THWN-2) 600V Series E5000	A-5
XLPE (XHHW-2) 600V Series E5000	A-6

LV INSTRUMENTATION

PVC/PVC, 300V Type PLTC/ITC-ER Series E1AC	A-8
Overall Shielded Series E1ACB	A-9
Individually and Overall Shielded Series E1ACD	A-9
PVC/Nylon/PVC, 600V Instrumentation, Type TC-ER Series E1BE ..	A-10
Overall Shielded Series E1BEB	A-11
Individually and Overall Shielded Series E1BED	A-11
XLPE/PVC, 600V Instrumentation, Type TC-ER Series E1BF	A-12
Overall Shielded Series E1BFB	A-13
Individually and Overall Shielded Series E1BFD	A-13

LV CONTROL

PVC/Nylon/PVC, 600V Control, Type TC-ER Series E2BE	A-14
Unshielded Series E2BEA	A-15
Overall Shielded Series E2BEB	A-16
XLPE/PVC, 600V Control, Type TC-ER Series E2BF	A-18
Unshielded Series E2BFA	A-19

LV POWER

PVC/Nylon/PVC, 600V Power, Type TC-ER Series E3BE	A-20
Unshielded Series E3BEA	A-21
XLPE/PVC, 600V Power, Type TC-ER Series E3BF	A-22
Unshielded Series E3BFA	A-23

MV-105 POWER

EPR/CTS/PVC Power, Type MV-105, 5kV-35kV	
Series E8 (Copper Conductors)	A-24
Copper Unfilled Cdr 5kV 100% I.L., 90-mils, Shielded	
Series E8ELE	A-25
Copper Unfilled Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded	
Series E8FLE	A-25
Copper Unfilled Cdr 15kV 100% I.L., 175-mils, Shielded	
Series E8HLE	A-25
Copper Unfilled Cdr 15kV 133% I.L., 220-mils, Shielded	
Series E8JLE	A-26
Copper Unfilled Cdr 25kV 100% I.L., 260-mils, Shielded	
Series E8KLE	A-26
Copper Unfilled Cdr 25kV 133% I.L., 320-mils, Shielded	
Series E8LLE	A-26
Copper Unfilled Cdr 35kV 100% I.L., 345-mils, Shielded	
Series E8MLE	A-27
Copper Unfilled Cdr 35kV 133% I.L., 420-mils, Shielded	
Series E8NLE	A-27

MV-105 POWER (CONTINUED)

EPR/CTS/TP-CPE Power, Type MV-105, 5kV-35kV	
Series E8 (Copper Conductors)	A-28
Copper Unfilled Cdr 5kV 100% I.L., 90-mils, Shielded	
Series E8EME	A-29
Copper Unfilled Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded	
Series E8FME	A-29
Copper Unfilled Cdr 15kV 100% I.L., 175-mils, Shielded	
Series E8HME	A-29
Copper Unfilled Cdr 15kV 133% I.L., 220-mils, Shielded	
Series E8JME	A-30
Copper Unfilled Cdr 25kV 100% I.L., 260-mils, Shielded	
Series E8KME	A-30
Copper Unfilled Cdr 25kV 133% I.L., 320-mils, Shielded	
Series E8LME	A-30
Copper Unfilled Cdr 35kV 100% I.L., 345-mils, Shielded	
Series E8MME	A-31
Copper Unfilled Cdr 35kV 133% I.L., 420-mils, Shielded	
Series E8NME	A-31

EPR/CTS/PVC Power, Type MV-105, 5kV-35kV	
Series E8 (Aluminum Conductors)	A-32
Aluminum Unfilled Cdr 5kV 100% I.L., 90-mils, Shielded	
Series E8ELE	A-33
Aluminum Unfilled Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded	
Series E8FLE	A-33
Aluminum Unfilled Cdr 15kV 100% I.L., 175-mils, Shielded	
Series E8HLE	A-33
Aluminum Unfilled Cdr 15kV 133% I.L., 220-mils, Shielded	
Series E8JLE	A-34
Aluminum Unfilled Cdr 25kV 100% I.L., 260-mils, Shielded	
Series E8KLE	A-34
Aluminum Unfilled Cdr 25kV 133% I.L., 320-mils, Shielded	
Series E8LLE	A-34
Aluminum Unfilled Cdr 35kV 100% I.L., 345-mils, Shielded	
Series E8MLE	A-35
Aluminum Unfilled Cdr 35kV 133% I.L., 420-mils, Shielded	
Series E8NLE	A-35

EPR/CTS/PVC Power, Type MV-105, 3 Conductor, 5kV-15kV	
Series E8 (Copper Conductors)	A-36
Copper Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded	
Series E8FLR	A-37
Copper Cdr 15kV 133% I.L., 220-mils, Shielded Series E8JLR	A-37
Copper Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded	
Series E8FMR	A-39
Copper Cdr 15kV 133% I.L., 220-mils, Shielded Series E8JMR	A-39

ALUMINUM INTERLOCK ARMORED

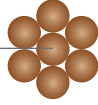
XLPE/AIA/PVC, 600V Control, Type MC Series E2BFP	A-40
XLPE/AIA/PVC, 600V Power, Type MC Series E3BFP	A-42
EPR/CTS/AIA/PVC Power, Type MV-105, 3 Conductor, 5/8kV Yellow	
Series E8	A-44
EPR/CTS/AIA/PVC Power, Type MV-105, 3 Conductor, 15kV Red	
Series E8	A-46

Bare Copper

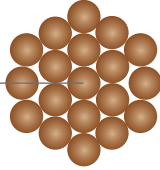
Series E6000



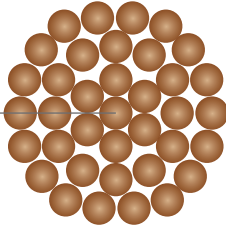
7-Wire Stranded Conductor



19-Wire Stranded Conductor



37-Wire Stranded Conductor



SPECIFICATIONS

Conductor Count	Single conductor
Conductor	Fully annealed bare copper
Gauge Sizes	Available 6 through 500 kcmil as Stranded
Performance Compliance	ASTM B3 ASTM B8

PRODUCT KEY

Conductor

Cu

Stranding

B

PRODUCT DESCRIPTION

Bare Copper Series E6000 is a single conductor, uninsulated, stranded bare copper, per ASTM B-8. The stranded configuration is constructed with a central wire surrounded by one or more layers of helically laid wires.

APPLICATIONS

- Stranded bare copper are suitable for distribution applications, uninsulated hookups, jumpers and grounds in electrical constructions

MARKETS



PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Stranding Wire x Size	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E6000-061B01C990	6	7 x 0.0612	0.184 (4.67)	81 (121)
E6000-041B01C990	4	7 x 0.0772	0.232 (5.89)	129 (193)
E6000-021B01C990	2	7 x 0.0974	0.292 (7.42)	205 (306)
E6000-011B01C990	1	19 x 0.0664	0.332 (8.43)	258 (385)
E6000-1A1B01C990	1/0	19 x 0.0745	0.373 (9.47)	326 (487)
E6000-2A1B01C990	2/0	19 x 0.0837	0.419 (10.64)	411 (613)
E6000-3A1B01C990	3/0	19 x 0.0940	0.470 (11.94)	518 (773)
E6000-4A1B01C990	4/0	19 x 0.1055	0.528 (13.41)	653 (975)
E6000-A11B01C990	250	37 x 0.0822	0.575 (14.61)	773 (1,151)
E6000-A31B01C990	350	37 x 0.0973	0.661 (16.79)	1,084 (1,613)
E6000-A61B01C990	500	37 x 0.1162	0.813 (20.66)	1,546 (2,300)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

PVC/Nylon (THHN/THWN-2) 600V

Series E5000

PRODUCT DESCRIPTION

Type THHN/THWN-2 are soft drawn bare copper conductors, insulated with an abrasion, moisture, heat and sunlight resistant, flame retardant polyvinyl chloride (PVC) and Nylon Jacket.

APPLICATIONS

- Primarily used in conduit, cable tray or other recognized raceways for service, feeders, and branch circuit wiring as specified in the NEC
- Conductors are sunlight resistant and may be used in wet or dry locations at temperatures not to exceed 90°C

FEATURES

- Rated at 90°C wet or dry
- Excellent sunlight resistance
- 4 AWG through 1 AWG (Green) are CT USE when marked as "EQUIPMENT GROUND"

MARKETS



PRODUCT KEY

Conductor	Stranding	Voltage	Insulation
Cu	B	600V	PVC Nylon



SPECIFICATIONS

Conductor Count	Single conductor
Conductor	Soft drawn bare copper, Class B stranding
AWG	Copper: Available in 8 AWG through 1000 kcmil
Insulation	Polyvinyl chloride (PVC) and Nylon Jacket All gauges are type THHN/THWN-2
Color Coding	Black, Red, Green (other colors available upon request)
Marking	Smaller than 1/0 AWG: SUPERIOR ESSEX XXAWG THHN OR THWN-2 600V 90C WET OR DRY (UL) VW-1 SUN RES MADE IN USA MMDDYYYY For 1/0 AWG and larger: SUPERIOR ESSEX XXAWG (or XXXKCMIL) THHN OR THWN-2 600V 90C WET OR DRY(UL) CT USE SUN RES MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	UL® 83 ASTM B8 UL 1685 UL CT Flame Exposure Test
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Stranding ³ (# of wires)	PVC Insulation Nominal Thickness ¹ in (mm)	Nylon Jacket Nominal Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity
E5139-1MAx009900	8 ²	19	0.030 (0.76)	0.005 (0.13)	0.210 (5.32)	64 (96)	55
E5140-1BAx009900	6	7	0.030 (0.76)	0.005 (0.13)	0.248 (6.28)	94 (140)	75
E5141-1BAx009900	4	7	0.040 (1.01)	0.006 (0.15)	0.317 (8.03)	153 (228)	95
E5142-1BAx009900	2	7	0.040 (1.01)	0.006 (0.15)	0.375 (9.50)	233 (348)	110
E5143-1BAx009900	1	19	0.050 (1.27)	0.007 (0.18)	0.435 (11.02)	298 (445)	150
E5144-1BAx009900	1/0	19	0.050 (1.27)	0.007 (0.18)	0.480 (12.16)	372 (556)	170
E5145-1BAx009900	2/0	19	0.050 (1.27)	0.007 (0.18)	0.518 (13.12)	462 (690)	195
E5146-1BAx009900	3/0	19	0.050 (1.27)	0.007 (0.18)	0.568 (14.39)	572 (854)	225
E5147-1BAx009900	4/0	19	0.050 (1.27)	0.007 (0.18)	0.630 (15.96)	711 (1,062)	260
E5148-1BAx009900	250	37	0.060 (1.52)	0.008 (0.20)	0.678 (17.17)	849 (1,268)	290
E5149-1BAx009900	350	37	0.060 (1.52)	0.008 (0.20)	0.777 (19.68)	1,170 (1,747)	350
E5150-1BAx009900	500	37	0.060 (1.52)	0.008 (0.20)	0.930 (23.56)	1,640 (2,449)	430
E5151-1BAx009900	750	61	0.060 (1.52)	0.009 (0.23)	1.156 (29.28)	2,466 (3,682)	535
E5152-1BAx009900	1000	61	0.060 (1.52)	0.009 (0.23)	1.275 (32.29)	3254 (4,859)	615

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

² 8AWG, Combination Unilay-Stranded, Per ASTM B787

³ 6AWG through 1000kcmil, Reverse Concentric Compressed Class B, ASTM B8

Ampacities are in accordance with NEC table 310.16, for 90°C.

UL is a registered trademark of UL LLC.

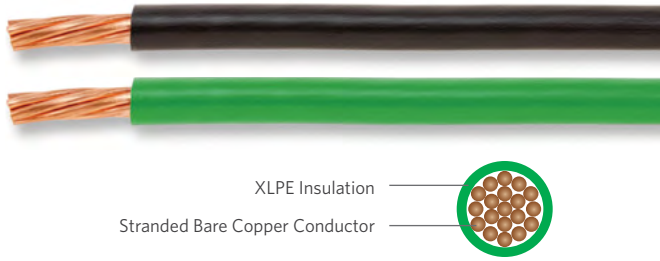
JACKET COLORS

"Replace "x" with: Black = 0 Brown = 1 Red = 2 Orange = 3 Yellow = 4 Green = 5 Blue = 6 Purple = 7 Gray = 8 White = 9

⁴"X" in the part number is to be substituted based on the color of the insulation (e.g., 0=Black, 1=Brown, 2=Red, 3=Orange, 4=Yellow, 5=Green, 6=Blue, 7=Purple, 8=Gray and 9 = White)

XLPE (XHHW-2) 600V

Series E5000



XLPE Insulation
Stranded Bare Copper Conductor

SPECIFICATIONS

Conductor Count	Single conductor
Conductor	Soft drawn bare copper, Class B stranding
AWG	Copper: Available in 14 AWG through 750 kcmil
Insulation	Cross-linked Polyethylene (XLPE) • All gauges are type XHHW-2
Color Coding	Black, Red, Green (other colors available upon request)
Marking	Smaller than 1/0 AWG: SUPERIOR ESSEX XXAWG XHHW-2 600V 90C WET OR DRY (UL) SR VW-1 PRI PRII GRI -40C MADE IN USA MMDDYYYY For 1/0 AWG and larger: SUPERIOR ESSEX XXAWG (or XXXKCMIL) XHHW-2 600V 90C WET OR DRY (UL) SSR VW-1 PRI PRII GRI CT USE -40C MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	UL® 44 Thermoset-Insulated Wires and Cables. ASTM B8 UL 1685 UL CT Flame Exposure Test ICEA S-95-658 (NEMA WC 70)
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

Type XHHW-2 are soft drawn bare copper conductors, insulated with an abrasion, moisture, heat and sunlight resistant, flame retardant cross-linked polyethylene.

APPLICATIONS

- Primarily used in conduit, cable tray or other recognized raceways for service, feeders, and branch circuit wiring as specified in the NEC
- Conductors are sunlight resistant and may be used in wet or dry locations at temperatures not to exceed 90°C

FEATURES

- Rated at 90°C wet or dry
- Excellent sunlight resistance
- 4 AWG through 1 AWG (Green) are CT USE when marked as "EQUIPMENT GROUND"

MARKETS



PRODUCT KEY

Conductor	Stranding	Voltage	Insulation
Cu	B	600V	XLPE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Stranding ³ (# of wires)	Nominal Insulation Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity
E5041-1BAx009900	14	7	0.030 (0.76)	0.130 (3.30)	18 (27)	15
E5042-1BAx009900	12	7	0.030 (0.76)	0.147 (3.73)	26 (39)	20
E5043-1BAx009900	10	7	0.030 (0.76)	0.171 (4.34)	40 (60)	30
E5045-1MAx009900	8 ²	19	0.045 (1.14)	0.240 (6.10)	67 (100)	55
E5046-1BAx009900	6	7	0.045 (1.14)	0.276 (7.01)	99 (148)	75
E5047-1BAx009900	4	7	0.045 (1.14)	0.323 (8.20)	150 (224)	95
E5048-1BAx009900	2	7	0.045 (1.14)	0.381 (9.68)	230 (343)	130
E5049-1BAx009900	1	19	0.055 (1.40)	0.469 (11.90)	333 (497)	150
E5050-1BAx009900	1/0	19	0.055 (1.40)	0.482 (12.24)	364 (544)	170
E5051-1BAx009900	2/0	19	0.055 (1.40)	0.525 (13.34)	452 (675)	195
E5052-1BAx009900	3/0	19	0.055 (1.40)	0.576 (14.63)	563 (841)	225
E5053-1BAx009900	4/0	19	0.055 (1.40)	0.632 (16.05)	701 (1,047)	260
E5054-1BAx009900	250	37	0.065 (1.65)	0.695 (17.66)	824 (1,230)	290
E5058-1BAx009900	350	37	0.065 (1.65)	0.807 (20.50)	1,155 (1,725)	350
E5063-1BAx009900	500	37	0.065 (1.65)	0.935 (23.75)	1,625 (2,426)	430
E5134-1BAx009900	750	61	0.080 (2.04)	1.148 (29.16)	2,439 (3,642)	535

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

² 8AWG, Combination Unilay-Stranded, Per ASTM B787

³ 14AWG through 750kcmil, Reverse Concentric Compressed Class B, ASTM B8

Ampacities are in accordance with NEC table 310.16, for 90°C.

UL is a registered trademark of UL LLC.

JACKET COLORS

*Replace "x" with: Black = 0 Brown = 1 Red = 2 Orange = 3 Yellow = 4 Green = 5 Blue = 6 Purple = 7 Gray = 8 White = 9

*"X" in the part number is to be substituted based on the color of the insulation (e.g., 0=Black, 1=Brown, 2=Red, 3=Orange, 4=Yellow, 5=Green, 6=Blue, 7=Purple, 8=Gray and 9 = White)

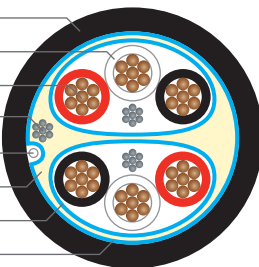
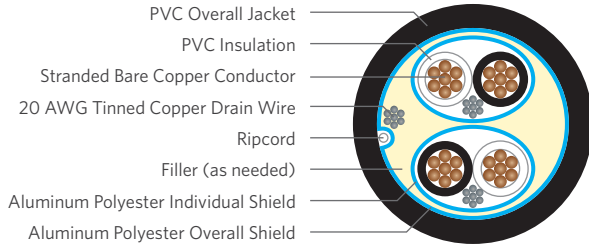


PVC/PVC, 300V Type PLTC/ITC-ER

Series E1AC



Series E1ACD - Pairs



Series E1ACD - Triads

PRODUCT DESCRIPTION

The PVC/PVC, 300V Type PLTC/ITC-ER Cables consist of fully annealed bare copper, Class B stranded conductors (in pairs or triads), covered with Polyvinyl Chloride (PVC) insulation, overall shielded or individually and overall shielded and black PVC jacket. These cables are used in control systems, audio, intercom, alarm circuits and energy management.

APPLICATIONS

- In free air, ducts, cable trays, conduit, raceways and direct burial
- Approved for Class I Div. 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) used in accordance with NEC

FEATURES

- Rated at 105°C
- Ripcord (for jackets with thicknesses of 60-mils or less)
- Excellent sunlight resistance
- Meets cold bend test at -25°C
- Pair/Triad ID marking system

MARKETS



SPECIFICATIONS

Conductor Count	Available in 1-pair through 36-pairs, and 1-triad through 24-triads
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 18 or 16 AWG
Insulation	Polyvinyl Chloride (PVC)
Color Coding	Per ICEA S-58-679 Method 9, Table E-1 (black-white-red), plus one conductor per pair/triad printed for identification; additional color coding options available
Shield Options	Overall (OS): Overall Aluminum polyester (mylar) foil shield in contact with 20 AWG stranded tinned copper drain wire Individual and Overall (IS/OS): Combination of both individual and overall with Aluminum polyester (mylar) foil shield in contact with 20 AWG stranded tinned copper drain wire
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG XX/PR (or TR) PVC/PVC OS (or IS or IS/OS) 105C TYPE ITC-ER OR PLTC-ER (UL) SUN RES DIR BUR FT4/IEEE1202 MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8 ASTM B33 UL® 13 UL 1685 (flame exposure test) UL 2250 CSA FT4/IEEE1202 (flame compliance) NEC Article 727 for ITC
Other Compliances	EPA 40 CFR, part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding Options	Jacket
Cu	B	300V	PVC	OS Alum Mylar or IS Alum Mylar OS	PVC

Overall Shielded Series E1ACB

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	Triad Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E1ACB-181B01PJ00	1	-	18	0.015 (0.38)	0.042 (1.07)	0.239 (6.07)	35 (52)
E1ACB-181B01TJ00	-	1	18	0.015 (0.38)	0.042 (1.07)	0.263 (6.68)	44 (66)
E1ACB-181B02PJ00	2	-	18	0.015 (0.38)	0.042 (1.07)	0.361 (9.17)	55 (82)
E1ACB-181B04PJ00	4	-	18	0.015 (0.38)	0.042 (1.07)	0.439 (11.15)	101 (151)
E1ACB-181B08PJ00	8	-	18	0.015 (0.38)	0.060 (1.52)	0.647 (16.43)	192 (285)
E1ACB-181B12PJ00	12	-	18	0.015 (0.38)	0.060 (1.52)	0.671 (17.04)	256 (382)
E1ACB-181B16PJ00	16	-	18	0.015 (0.38)	0.060 (1.52)	0.751 (19.08)	322 (481)
E1ACB-181B20PJ00	20	-	18	0.015 (0.38)	0.060 (1.52)	0.779 (19.79)	389 (581)
E1ACB-181B24PJ00	24	-	18	0.015 (0.38)	0.070 (1.78)	0.916 (23.27)	471 (703)
E1ACB-181B36PJ00	36	-	18	0.015 (0.38)	0.070 (1.78)	1.031 (26.19)	671 (1,001)
E1ACB-161B01PJ00	1	-	16	0.015 (0.38)	0.040 (1.02)	0.274 (6.96)	45 (67)
E1ACB-161B01TJ00	-	1	16	0.015 (0.38)	0.042 (1.07)	0.296 (7.52)	58 (86)
E1ACB-161B02PJ00	2	-	16	0.015 (0.38)	0.042 (1.07)	0.424 (10.77)	85 (127)
E1ACB-161B04PJ00	4	-	16	0.015 (0.38)	0.053 (1.35)	0.480 (12.19)	132 (197)
E1ACB-161B08PJ00	8	-	16	0.015 (0.38)	0.060 (1.52)	0.725 (18.42)	259 (385)
E1ACB-161B12PJ00	12	-	16	0.015 (0.38)	0.060 (1.52)	0.754 (19.15)	348 (519)
E1ACB-161B16PJ00	16	-	16	0.015 (0.38)	0.070 (1.78)	0.844 (21.44)	443 (661)
E1ACB-161B20PJ00	20	-	16	0.015 (0.38)	0.070 (1.78)	0.906 (23.01)	558 (833)
E1ACB-161B24PJ00	24	-	16	0.015 (0.38)	0.070 (1.78)	1.031 (26.19)	676 (1,009)
E1ACB-161B36PJ00	36	-	16	0.015 (0.38)	0.070 (1.78)	1.166 (29.62)	936 (1,397)

Individually and Overall Shielded Series E1ACD

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	Triad Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E1ACD-181B02PJ00	2	-	18	0.015 (0.38)	0.042 (1.07)	0.384 (9.75)	69 (103)
E1ACD-181B02TJ00	-	2	18	0.015 (0.38)	0.040 (1.02)	0.445 (11.30)	96 (143)
E1ACD-181B04PJ00	4	-	18	0.015 (0.38)	0.042 (1.07)	0.466 (11.84)	120 (179)
E1ACD-181B04TJ00	-	4	18	0.015 (0.38)	0.050 (1.27)	0.513 (13.03)	143 (213)
E1ACD-181B08PJ00	8	-	18	0.015 (0.38)	0.060 (1.52)	0.664 (16.87)	212 (316)
E1ACD-181B08TJ00	-	8	18	0.015 (0.38)	0.060 (1.52)	0.690 (17.53)	275 (409)
E1ACD-181B12PJ00	12	-	18	0.015 (0.38)	0.060 (1.52)	0.762 (19.35)	315 (469)
E1ACD-181B12TJ00	-	12	18	0.015 (0.38)	0.060 (1.52)	0.841 (21.36)	412 (613)
E1ACD-181B16PJ00	16	-	18	0.015 (0.38)	0.060 (1.52)	0.844 (21.44)	401 (597)
E1ACD-181B16TJ00	-	16	18	0.015 (0.38)	0.070 (1.78)	0.962 (24.43)	550 (819)
E1ACD-181B20PJ00	20	-	18	0.015 (0.38)	0.070 (1.78)	0.956 (24.28)	505 (752)
E1ACD-181B20TJ00	-	20	18	0.015 (0.38)	0.070 (1.78)	1.062 (26.97)	668 (994)
E1ACD-181B24PJ00	24	-	18	0.015 (0.38)	0.070 (1.78)	1.039 (26.39)	596 (887)
E1ACD-181B24TJ00	-	24	18	0.015 (0.38)	0.070 (1.78)	1.144 (29.06)	785 (1,168)
E1ACD-181B36PJ00	36	-	18	0.015 (0.38)	0.070 (1.78)	1.216 (30.89)	846 (1,259)
E1ACD-161B02PJ00	2	-	16	0.015 (0.38)	0.042 (1.07)	0.449 (11.40)	96 (143)
E1ACD-161B02TJ00	-	2	16	0.015 (0.38)	0.040 (1.02)	0.494 (12.55)	122 (182)
E1ACD-161B04PJ00	4	-	16	0.015 (0.38)	0.053 (1.35)	0.507 (12.88)	151 (225)
E1ACD-161B04TJ00	-	4	16	0.015 (0.38)	0.050 (1.27)	0.572 (14.53)	195 (290)
E1ACD-161B08PJ00	8	-	16	0.015 (0.38)	0.060 (1.52)	0.742 (18.85)	288 (429)
E1ACD-161B08TJ00	-	8	16	0.015 (0.38)	0.060 (1.52)	0.785 (19.94)	375 (558)
E1ACD-161B12PJ00	12	-	16	0.015 (0.38)	0.060 (1.52)	0.857 (21.77)	435 (647)
E1ACD-161B12TJ00	-	12	16	0.015 (0.38)	0.070 (1.78)	0.971 (24.66)	597 (888)
E1ACD-161B16PJ00	16	-	16	0.015 (0.38)	0.070 (1.78)	0.975 (24.79)	575 (856)
E1ACD-161B16TJ00	-	16	16	0.015 (0.38)	0.070 (1.78)	1.073 (27.25)	765 (1,138)
E1ACD-161B20PJ00	20	-	16	0.015 (0.38)	0.070 (1.78)	1.081 (27.46)	705 (1,049)
E1ACD-161B20TJ00	-	20	16	0.015 (0.38)	0.070 (1.78)	1.194 (30.33)	933 (1,388)
E1ACD-161B24PJ00	24	-	16	0.015 (0.38)	0.070 (1.78)	1.166 (29.62)	828 (1,232)
E1ACD-161B24TJ00	-	24	16	0.015 (0.38)	0.080 (2.03)	1.311 (33.30)	1,125 (1,674)
E1ACD-161B36PJ00	36	-	16	0.015 (0.38)	0.080 (2.03)	1.392 (35.36)	1,215 (1,808)

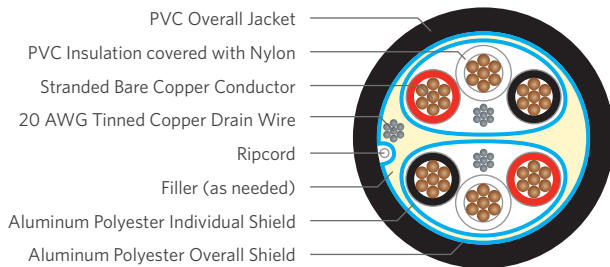
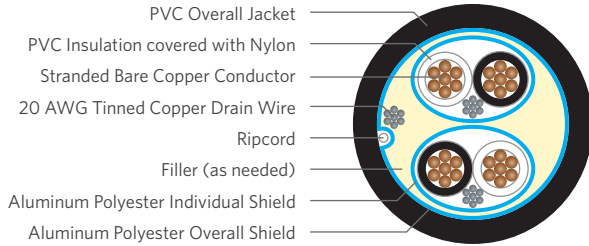
¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

PVC/Nylon/PVC, 600V Instrumentation, Type TC-ER

Series E1BE



Series E1BED - Pairs



Series E1BED - Triads

PRODUCT DESCRIPTION

The PVC/Nylon/PVC, 600V Instrumentation, Type TC-ER Cables consist of fully annealed bare copper Class B stranded conductors (in pairs or triads), covered with Polyvinyl Chloride (PVC) and clear Nylon insulation, overall shielded or individually and overall shielded and black PVC jacket. These cables are used in control systems, audio, intercom, alarm circuits and energy management.

APPLICATIONS

- In free air, ducts, cable trays, conduit, raceways and direct burial
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Used as a non-power-limited fire alarm circuit cable (NPLF) per NEC Article 760
- Permitted for Exposed Run (ER) used in accordance with NEC for 3 or more conductors; two conductors without a ground wire are Type TC only

FEATURES

- Rated at 90°C wet or dry
- Ripcord (for jackets with thicknesses of 60-mils or less)
- Excellent sunlight resistance
- Meets cold bend test at -25°C

MARKETS



SPECIFICATIONS

Conductor Count	Available in 1-pair through 36-pairs, and 1-triad through 24-triads
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 18 or 16 AWG
Insulation	Polyvinyl Chloride (PVC) covered with Nylon
Color Coding	Per ICEA S-58-679 Method 9, Table E-1 (black-white-red), plus one conductor per pair/triad printed for identification; additional color coding options available
Shield Options	Overall (OS): Overall Aluminum polyester (mylar) foil shield in contact with 20 AWG stranded tinned copper drain wire Individual and Overall (IS/OS): Combination of both individual and overall with Aluminum polyester (mylar) foil shield in contact with 20 AWG stranded tinned copper drain wire
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG XX/PR (or TR) PVC/NYLON/PVC OS (or IS or IS/OS) 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BUR FT4/IEEE1202 MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance	ASTM B8, ASTM B33
Compliances	UL® 66, UL 83, UL 1277 UL 1685 (flame exposure test) ICEA S-73-532/NEMA WC57 CSA FT4/IEEE1202 (flame compliance) NEC
Other	EPA 40 CFR, Part 261
Compliances	OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding Options	Jacket
Cu	B	600V	PVC Nylon	OS Alum Mylar or IS Alum Mylar OS	PVC

Overall Shielded Series E1BEB

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	Triad Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E1BEB-181B01PJ00	1	-	18	0.020 (0.51)	0.045 (1.14)	0.281 (7.14)	41 (61)
E1BEB-181B01TJ00	-	1	18	0.020 (0.51)	0.045 (1.14)	0.302 (7.67)	49 (73)
E1BEB-181B02PJ00	2	-	18	0.020 (0.51)	0.045 (1.14)	0.439 (11.15)	72 (107)
E1BEB-181B03PJ00	3	-	18	0.020 (0.51)	0.045 (1.14)	0.464 (11.79)	90 (134)
E1BEB-181B04PJ00	4	-	18	0.020 (0.51)	0.045 (1.14)	0.506 (12.85)	110 (134)
E1BEB-181B05PJ00	5	-	18	0.020 (0.51)	0.060 (1.52)	0.571 (14.50)	124 (185)
E1BEB-181B07PJ00	7	-	18	0.020 (0.51)	0.060 (1.52)	0.586 (14.88)	177 (263)
E1BEB-181B12PJ00	12	-	18	0.020 (0.51)	0.060 (1.52)	0.769 (19.53)	277 (412)
E1BEB-181B16PJ00	16	-	18	0.020 (0.51)	0.080 (2.03)	0.826 (20.98)	355 (528)
E1BEB-181B20PJ00	20	-	18	0.020 (0.51)	0.080 (2.03)	0.991 (25.17)	455 (677)
E1BEB-181B24PJ00	24	-	18	0.020 (0.51)	0.080 (2.03)	1.021 (25.93)	544 (810)
E1BEB-181B36PJ00	36	-	18	0.020 (0.51)	0.080 (2.03)	1.152 (29.26)	763 (1,135)
E1BEB-161B01PJ00	1	-	16	0.020 (0.51)	0.045 (1.14)	0.301 (7.65)	52 (77)
E1BEB-161B01TJ00	-	1	16	0.020 (0.51)	0.045 (1.14)	0.316 (8.03)	61 (91)
E1BEB-161B02PJ00	2	-	16	0.020 (0.51)	0.045 (1.14)	0.469 (11.91)	93 (138)
E1BEB-161B03PJ00	3	-	16	0.020 (0.51)	0.045 (1.14)	0.506 (12.85)	117 (174)
E1BEB-161B04PJ00	4	-	16	0.020 (0.51)	0.060 (1.52)	0.574 (14.58)	140 (209)
E1BEB-161B05PJ00	5	-	16	0.020 (0.51)	0.060 (1.52)	0.609 (15.47)	190 (283)
E1BEB-161B07PJ00	7	-	16	0.020 (0.51)	0.060 (1.52)	0.631 (16.03)	239 (356)
E1BEB-161B12PJ00	12	-	16	0.020 (0.51)	0.060 (1.52)	0.826 (20.98)	419 (625)
E1BEB-161B16PJ00	16	-	16	0.020 (0.51)	0.080 (2.03)	0.972 (24.69)	513 (763)
E1BEB-161B20PJ00	20	-	16	0.020 (0.51)	0.080 (2.03)	1.011 (25.68)	628 (935)
E1BEB-161B24PJ00	24	-	16	0.020 (0.51)	0.080 (2.03)	1.136 (28.85)	740 (1,101)
E1BEB-161B36PJ00	36	-	16	0.020 (0.51)	0.080 (2.03)	1.374 (34.90)	1,063 (1,582)

Individually and Overall Shielded Series E1BED

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E1BED-181B02PJ00	2	18	0.020 (0.51)	0.045 (1.14)	0.446 (11.33)	84 (125)
E1BED-181B03PJ00	3	18	0.020 (0.51)	0.045 (1.14)	0.479 (12.17)	106 (158)
E1BED-181B04PJ00	4	18	0.020 (0.51)	0.045 (1.14)	0.556 (14.12)	145 (216)
E1BED-181B05PJ00	5	18	0.020 (0.51)	0.060 (1.52)	0.581 (14.76)	169 (252)
E1BED-181B07PJ00	7	18	0.020 (0.51)	0.060 (1.52)	0.652 (16.56)	219 (326)
E1BED-181B12PJ00	12	18	0.020 (0.51)	0.060 (1.52)	0.846 (21.49)	390 (506)
E1BED-181B16PJ00	16	18	0.020 (0.51)	0.080 (2.03)	0.961 (24.41)	473 (704)
E1BED-181B20PJ00	20	18	0.020 (0.51)	0.080 (2.03)	1.052 (26.72)	594 (884)
E1BED-181B24PJ00	24	18	0.020 (0.51)	0.080 (2.03)	1.174 (29.82)	689 (1,025)
E1BED-181B36PJ00	36	18	0.020 (0.51)	0.080 (2.03)	1.381 (35.08)	979 (1,457)
E1BED-161B02PJ00	2	16	0.020 (0.51)	0.045 (1.14)	0.496 (12.60)	105 (156)
E1BED-161B03PJ00	3	16	0.020 (0.51)	0.045 (1.14)	0.521 (13.23)	137 (204)
E1BED-161B04PJ00	4	16	0.020 (0.51)	0.045 (1.14)	0.601 (15.27)	188 (280)
E1BED-161B05PJ00	5	16	0.020 (0.51)	0.060 (1.52)	0.654 (16.61)	212 (316)
E1BED-161B07PJ00	7	16	0.020 (0.51)	0.060 (1.52)	0.712 (18.08)	290 (432)
E1BED-161B12PJ00	12	16	0.020 (0.51)	0.060 (1.52)	0.939 (23.85)	498 (741)
E1BED-161B16PJ00	16	16	0.020 (0.51)	0.080 (2.03)	1.054 (26.77)	635 (945)
E1BED-161B20PJ00	20	16	0.020 (0.51)	0.080 (2.03)	1.176 (29.87)	768 (1,143)
E1BED-161B24PJ00	24	16	0.020 (0.51)	0.080 (2.03)	1.351 (34.32)	903 (1,344)
E1BED-161B36PJ00	36	16	0.020 (0.51)	0.080 (2.03)	1.482 (37.64)	1,290 (1,920)

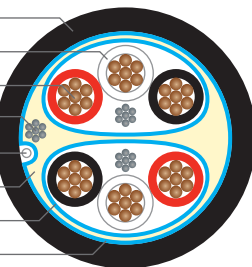
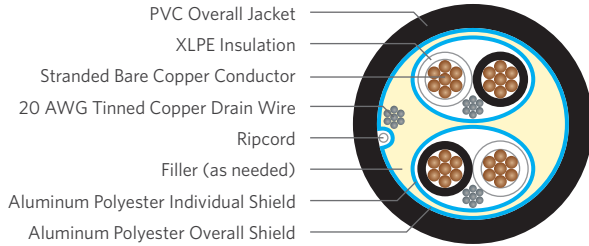
¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

XLPE/PVC, 600V Instrumentation, Type TC-ER

Series E1BF



Series E1BFD - Pairs



Series E1BFD - Triads

PRODUCT DESCRIPTION

The XLPE/PVC, 600V Instrumentation, Type TC-ER Cables consist of fully annealed bare copper Class B stranded conductors (in pairs or triads), covered with Cross-linked Polyethylene (XLPE) insulation, overall shielded or individually and overall shielded and black PVC jacket. These cables are used in control systems, audio, intercom, alarm circuits and energy management.

APPLICATIONS

- In free air, ducts, cable trays, conduit, raceways and direct burial
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) used in accordance with NEC for 3 or more conductors; two conductors without a ground wire are Type TC only

FEATURES

- Rated at 90°C wet or dry
- Ripcord (for jackets with thicknesses of 60-mils or less)
- Excellent sunlight resistance
- Meets cold bend test at -25°C

MARKETS



SPECIFICATIONS

Conductor Count	Available in 1-pair through 36-pairs, and 1-triad through 24-triads
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 18 or 16 AWG
Insulation	Cross-linked Polyethylene (XLPE) • 18 through 16 AWG are type RFH-2 • 14 AWG and larger are type XHHW-2
Color Coding	Per ICEA S-58-679 Method 9, Table E-1 (black-white-red), plus one conductor per pair/triad printed for identification; additional color coding options available
Shield Options	Overall (OS): Overall Aluminum polyester foil shield in contact with 20 AWG stranded tinned copper drain wire Individual and Overall (IS/OS): Combination of both individual and overall with Aluminum polyester foil shield in contact with 20 AWG stranded tinned copper drain wire
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG XX/PR (or TR) XLPE/PVC OS (or IS or IS/OS) 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BUR MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8, ASTM B33 UL® 44, UL 66, UL 1277, UL 1685 (flame exposure test) ICEA S-73-532 / NEMA WC57
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding Options	Jacket
Cu	B	600V	XLPE	OS Alum Mylar or IS Alum Mylar OS	PVC

Overall Shielded Series E1BFB

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	Triad Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E1BFB-181B01PJ00	1	-	18	0.030 (0.76)	0.045 (1.14)	0.316 (8.03)	46 (68)
E1BFB-181B01TJ00	-	1	18	0.030 (0.76)	0.045 (1.14)	0.341 (8.66)	58 (86)
E1BFB-181B02PJ00	2	-	18	0.030 (0.76)	0.045 (1.14)	0.452 (11.48)	88 (131)
E1BFB-181B04PJ00	4	-	18	0.030 (0.76)	0.045 (1.14)	0.559 (14.20)	144 (214)
E1BFB-181B08PJ00	8	-	18	0.030 (0.76)	0.060 (1.52)	0.751 (19.08)	263 (391)
E1BFB-181B12PJ00	12	-	18	0.030 (0.76)	0.080 (2.03)	0.959 (24.36)	358 (533)
E1BFB-181B16PJ00	16	-	18	0.030 (0.76)	0.080 (2.03)	1.059 (26.90)	461 (686)
E1BFB-181B20PJ00	20	-	18	0.030 (0.76)	0.080 (2.03)	1.171 (29.74)	600 (893)
E1BFB-181B24PJ00	24	-	18	0.030 (0.76)	0.080 (2.03)	1.245 (31.62)	619 (624)
E1BFB-181B36PJ00	36	-	18	0.030 (0.76)	0.080 (2.03)	1.485 (37.72)	870 (1,299)
E1BFB-161B01PJ00	1	-	16	0.030 (0.76)	0.045 (1.14)	0.346 (8.79)	58 (87)
E1BFB-161B01TJ00	-	1	16	0.030 (0.76)	0.045 (1.14)	0.361 (9.17)	72 (107)
E1BFB-161B02PJ00	2	-	16	0.030 (0.76)	0.045 (1.14)	0.559 (14.20)	99 (148)
E1BFB-161B04PJ00	4	-	16	0.030 (0.76)	0.060 (1.52)	0.652 (16.56)	186 (277)
E1BFB-161B08PJ00	8	-	16	0.030 (0.76)	0.060 (1.52)	0.934 (23.72)	324 (482)
E1BFB-161B12PJ00	12	-	16	0.030 (0.76)	0.080 (2.03)	1.004 (25.50)	486 (723)
E1BFB-161B16PJ00	16	-	16	0.030 (0.76)	0.080 (2.03)	1.160 (29.46)	616 (917)
E1BFB-161B20PJ00	20	-	16	0.030 (0.76)	0.080 (2.03)	1.281 (32.54)	734 (1,092)
E1BFB-161B24PJ00	24	-	16	0.030 (0.76)	0.080 (2.03)	1.442 (36.63)	894 (1,330)
E1BFB-161B36PJ00	36	-	16	0.030 (0.76)	0.080 (2.03)	1.649 (41.88)	1,254 (1,866)

Individually and Overall Shielded Series E1BFD

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E1BFD-181B02PJ00	2	18	0.030 (0.76)	0.045 (1.14)	0.516 (13.11)	95 (141)
E1BFD-181B04PJ00	4	18	0.030 (0.76)	0.060 (1.52)	0.624 (15.85)	170 (253)
E1BFD-181B08PJ00	8	18	0.030 (0.76)	0.060 (1.52)	0.910 (23.11)	292 (435)
E1BFD-181B12PJ00	12	18	0.030 (0.76)	0.080 (2.03)	1.021 (25.93)	442 (658)
E1BFD-181B16PJ00	16	18	0.030 (0.76)	0.080 (2.03)	1.129 (28.68)	554 (824)
E1BFD-181B20PJ00	20	18	0.030 (0.76)	0.080 (2.03)	1.236 (31.39)	665 (991)
E1BFD-181B24PJ00	24	18	0.030 (0.76)	0.080 (2.03)	1.466 (37.24)	802 (1,194)
E1BFD-181B36PJ00	36	18	0.030 (0.76)	0.080 (2.03)	1.631 (41.43)	1,116 (1,661)
E1BFD-161B02PJ00	2	16	0.030 (0.76)	0.060 (1.52)	0.596 (15.14)	135 (201)
E1BFD-161B04PJ00	4	16	0.030 (0.76)	0.060 (1.52)	0.695 (17.65)	214 (318)
E1BFD-161B08PJ00	8	16	0.030 (0.76)	0.060 (1.52)	0.901 (22.89)	399 (594)
E1BFD-161B12PJ00	12	16	0.030 (0.76)	0.080 (2.03)	1.109 (28.17)	584 (869)
E1BFD-161B16PJ00	16	16	0.030 (0.76)	0.080 (2.03)	1.261 (32.03)	712 (1,060)
E1BFD-161B20PJ00	20	16	0.030 (0.76)	0.080 (2.03)	1.316 (33.43)	845 (1,258)
E1BFD-161B24PJ00	24	16	0.030 (0.76)	0.080 (2.03)	1.511 (38.38)	1,009 (1,502)
E1BFD-161B36PJ00	36	16	0.030 (0.76)	0.110 (2.79)	1.821 (46.25)	1,447 (2,160)

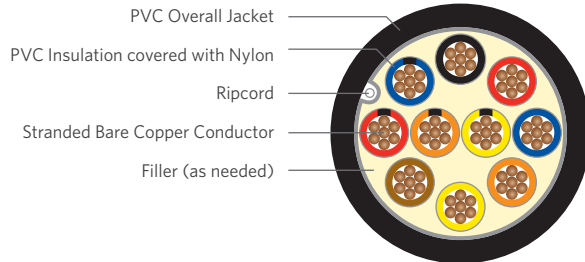
¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

PVC/Nylon/PVC, 600V Control, Type TC-ER

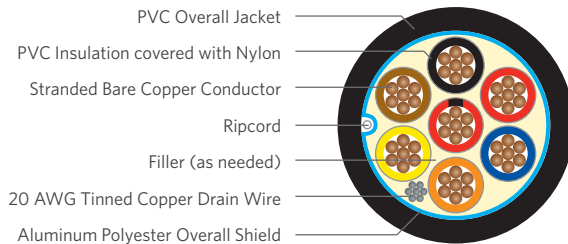
Series E2BE



Series E2BEA



Series E2BEB



PRODUCT DESCRIPTION

The PVC/Nylon/PVC (THHN/THWN-2), 600V Control, Type TC-ER Cables consist of fully annealed bare copper Class B stranded conductors, covered with Polyvinyl Chloride (PVC) and clear Nylon insulation, unshielded or shielded and black PVC jacket. These cables are used in industrial power or station control circuits.

APPLICATIONS

- In conduit, duct, free air, raceways and direct burial, primary installations include cable trays, and outdoor locations
- In wet or dry locations
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) used in accordance with NEC for 3 or more conductors; two conductors without a ground wire are Type TC only

FEATURES

- Rated at 90°C wet or dry
- Ripcord (for jackets with thicknesses of 60-mils or less)
- Excellent sunlight resistance
- Smallest OD available for suitable applications
- Meets cold bend test at -25°C

MARKETS



SPECIFICATIONS

Conductor Count	Available in 2 through 37 conductors
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 18 through 10 AWG
Insulation	Polyvinyl Chloride (PVC) covered with Nylon 14 AWG and larger are type THHN/THWN-2
Color Coding	Per ICEA S-58-679 Method 1, Table E-2; additional color coding options available
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Shield (optional)	Overall aluminum polyester (mylar) foil in contact with 20 AWG stranded tinned copper drain wire
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	Type TC-ER, conductor sizes 18 AWG - 16 AWG: 00000 FT SUPERIOR ESSEX XXAWG XX/C PVC/NYLON PVC JKT 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BUR FT4/IEEE1202 MADE IN USA MMDDYYYY Type TC-ER, conductor sizes 14 AWG - 10 AWG: 00000 FT SUPERIOR ESSEX XXAWG XX/C THHN/THWN-2 PVC JKT 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BUR FT4/IEEE1202 MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B8, ASTM B33 UL® 66, UL 83, UL 1277, UL 1685 (flame exposure test) ICEA S-95-658, ICEA S-73-532 CSA FT4/IEEE1202 (flame compliance) NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding Options	Jacket
Cu	B	600V	PVC Nylon	NONE or OS Alum Mylar	PVC

Unshielded Series E2BEA

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E2BEA-181B02CB00	2	18	0.020 (0.51)	0.045 (1.14)	0.284 (7.22)	38 (57)
E2BEA-181B03CB00	3	18	0.020 (0.51)	0.045 (1.14)	0.298 (7.57)	48 (71)
E2BEA-181B04CB00	4	18	0.020 (0.51)	0.045 (1.14)	0.321 (8.16)	57 (85)
E2BEA-181B05CB00	5	18	0.020 (0.51)	0.045 (1.14)	0.344 (8.73)	67 (100)
E2BEA-181B07CB00	7	18	0.020 (0.51)	0.045 (1.14)	0.374 (9.49)	87 (129)
E2BEA-181B09CB00	9	18	0.020 (0.51)	0.060 (1.52)	0.437 (11.09)	108 (161)
E2BEA-181B12CB00	12	18	0.020 (0.51)	0.060 (1.52)	0.477 (12.12)	135 (201)
E2BEA-181B19CB00	19	18	0.020 (0.51)	0.060 (1.52)	0.587 (14.91)	216 (321)
E2BEA-181B25CB00	25	18	0.020 (0.51)	0.060 (1.52)	0.691 (17.56)	274 (408)
E2BEA-181B37CB00	37	18	0.020 (0.51)	0.080 (2.03)	0.766 (19.46)	376 (559)
E2BEA-161B02CB00	2	16	0.020 (0.51)	0.045 (1.14)	0.308 (7.83)	48 (71)
E2BEA-161B03CB00	3	16	0.020 (0.51)	0.045 (1.14)	0.324 (8.23)	61 (90)
E2BEA-161B04CB00	4	16	0.020 (0.51)	0.045 (1.14)	0.350 (8.90)	74 (110)
E2BEA-161B05CB00	5	16	0.020 (0.51)	0.045 (1.14)	0.379 (9.63)	88 (131)
E2BEA-161B07CB00	7	16	0.020 (0.51)	0.045 (1.14)	0.41 (10.41)	114 (170)
E2BEA-161B09CB00	9	16	0.020 (0.51)	0.060 (1.52)	0.481 (12.21)	143 (214)
E2BEA-161B12CB00	12	16	0.020 (0.51)	0.060 (1.52)	0.527 (13.39)	182 (271)
E2BEA-161B16CB00	16	16	0.020 (0.51)	0.060 (1.52)	0.617 (15.24)	251 (374)
E2BEA-161B19CB00	19	16	0.020 (0.51)	0.060 (1.52)	0.647 (16.43)	290 (432)
E2BEA-161B25CB00	25	16	0.020 (0.51)	0.060 (1.52)	0.765 (19.44)	371 (551)
E2BEA-161B30CB00	30	16	0.020 (0.51)	0.080 (2.03)	0.792 (20.11)	430 (641)
E2BEA-161B37CB00	37	16	0.020 (0.51)	0.080 (2.03)	0.895 (22.74)	554 (824)
E2BEA-141B02CB00	2	14	0.020 (0.51)	0.045 (1.14)	0.320 (8.13)	64 (95)
E2BEA-141B03CB00	3	14	0.020 (0.51)	0.045 (1.14)	0.345 (8.76)	80 (119)
E2BEA-141B04CB00	4	14	0.020 (0.51)	0.045 (1.14)	0.365 (9.27)	100 (149)
E2BEA-141B05CB00	5	14	0.020 (0.51)	0.045 (1.14)	0.410 (10.41)	118 (176)
E2BEA-141B07CB00	7	14	0.020 (0.51)	0.045 (1.14)	0.445 (11.30)	153 (228)
E2BEA-141B09CB00	9	14	0.020 (0.51)	0.060 (1.52)	0.570 (14.48)	213 (317)
E2BEA-141B12CB00	12	14	0.020 (0.51)	0.060 (1.52)	0.595 (15.11)	267 (397)
E2BEA-141B19CB00	19	14	0.020 (0.51)	0.060 (1.52)	0.695 (17.65)	396 (589)
E2BEA-141B25CB00	25	14	0.020 (0.51)	0.080 (2.03)	0.902 (22.91)	507 (755)
E2BEA-141B30CB00	30	14	0.020 (0.51)	0.080 (2.03)	0.932 (23.67)	639 (954)
E2BEA-141B37CB00	37	14	0.020 (0.51)	0.080 (2.03)	0.970 (24.64)	766 (1,140)
E2BEA-121B02CB00	2	12	0.020 (0.51)	0.045 (1.14)	0.355 (9.02)	85 (127)
E2BEA-121B03CB00	3	12	0.020 (0.51)	0.045 (1.14)	0.385 (9.78)	131 (195)
E2BEA-121B04CB00	4	12	0.020 (0.51)	0.045 (1.14)	0.420 (10.67)	138 (205)
E2BEA-121B05CB00	5	12	0.020 (0.51)	0.045 (1.14)	0.445 (11.30)	165 (246)
E2BEA-121B07CB00	7	12	0.020 (0.51)	0.045 (1.14)	0.490 (12.45)	217 (323)
E2BEA-121B09CB00	9	12	0.020 (0.51)	0.060 (1.52)	0.605 (15.37)	297 (442)
E2BEA-121B12CB00	12	12	0.020 (0.51)	0.060 (1.52)	0.675 (17.15)	377 (561)
E2BEA-121B19CB00	19	12	0.020 (0.51)	0.060 (1.52)	0.785 (19.94)	568 (845)
E2BEA-121B25CB00	25	12	0.020 (0.51)	0.080 (2.03)	0.940 (23.88)	775 (1,153)
E2BEA-121B30CB00	30	12	0.020 (0.51)	0.080 (2.03)	1.030 (26.16)	919 (1,368)
E2BEA-121B37CB00	37	12	0.020 (0.51)	0.080 (2.03)	1.105 (28.07)	110 (1,637)
E2BEA-101B02CB00	2	10	0.020 (0.51)	0.045 (1.14)	0.420 (10.67)	115 (171)
E2BEA-101B03CB00	3	10	0.020 (0.51)	0.045 (1.14)	0.450 (11.43)	159 (237)
E2BEA-101B04CB00	4	10	0.020 (0.51)	0.045 (1.14)	0.505 (12.83)	209 (311)
E2BEA-101B05CB00	5	10	0.020 (0.51)	0.045 (1.14)	0.570 (14.48)	268 (399)
E2BEA-101B07CB00	7	10	0.020 (0.51)	0.045 (1.14)	0.620 (15.75)	350 (521)
E2BEA-101B09CB00	9	10	0.020 (0.51)	0.060 (1.52)	0.725 (18.42)	440 (655)
E2BEA-101B12CB00	12	10	0.020 (0.51)	0.060 (1.52)	0.815 (20.70)	584 (869)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

Overall Shielded Series E2BEB

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E2BEB-181B02CB00	2	18	0.020 (0.51)	0.045 (1.14)	0.285 (7.24)	42 (63)
E2BEB-181B03CB00	3	18	0.020 (0.51)	0.045 (1.14)	0.299 (7.60)	51 (76)
E2BEB-181B04CB00	4	18	0.020 (0.51)	0.045 (1.14)	0.322 (8.19)	58 (86)
E2BEB-181B12CB00	12	18	0.020 (0.51)	0.060 (1.52)	0.478 (12.15)	139 (207)
E2BEB-181B19CB00	19	18	0.020 (0.51)	0.060 (1.52)	0.588 (14.94)	220 (327)
E2BEB-161B02CB00	2	16	0.020 (0.51)	0.045 (1.14)	0.309 (7.85)	51 (77)
E2BEB-161B03CB00	3	16	0.020 (0.51)	0.045 (1.14)	0.325 (8.25)	64 (95)
E2BEB-161B04CB00	4	16	0.020 (0.51)	0.045 (1.14)	0.351 (8.92)	78 (116)
E2BEB-161B05CB00	5	16	0.020 (0.51)	0.045 (1.14)	0.380 (9.66)	92 (137)
E2BEB-161B25CB00	25	16	0.020 (0.51)	0.060 (1.52)	0.765 (19.43)	374 (556)
E2BEB-161B37CB00	37	16	0.020 (0.51)	0.080 (2.03)	0.895 (22.73)	557 (829)
E2BEB-141B02CB00	2	14	0.020 (0.51)	0.045 (1.14)	0.330 (8.38)	67 (100)
E2BEB-141B03CB00	3	14	0.020 (0.51)	0.045 (1.14)	0.350 (8.89)	84 (125)
E2BEB-141B04CB00	4	14	0.020 (0.51)	0.045 (1.14)	0.380 (9.65)	104 (155)
E2BEB-141B05CB00	5	14	0.020 (0.51)	0.045 (1.14)	0.400 (10.16)	123 (183)
E2BEB-141B07CB00	7	14	0.020 (0.51)	0.045 (1.14)	0.440 (11.18)	161 (240)
E2BEB-121B02CB00	2	12	0.020 (0.51)	0.045 (1.14)	0.370 (9.40)	83 (124)
E2BEB-121B03CB00	3	12	0.020 (0.51)	0.045 (1.14)	0.390 (9.91)	111 (165)
E2BEB-121B04CB00	4	12	0.020 (0.51)	0.045 (1.14)	0.420 (10.67)	139 (207)
E2BEB-101B02CB00	2	10	0.020 (0.51)	0.045 (1.14)	0.430 (10.92)	119 (177)
E2BEB-101B03CB00	3	10	0.020 (0.51)	0.045 (1.14)	0.460 (11.68)	162 (241)
E2BEB-101B04CB00	4	10	0.020 (0.51)	0.045 (1.14)	0.500 (12.70)	205 (305)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

Your Strategic Partner For Energy Product Needs



MARKETS

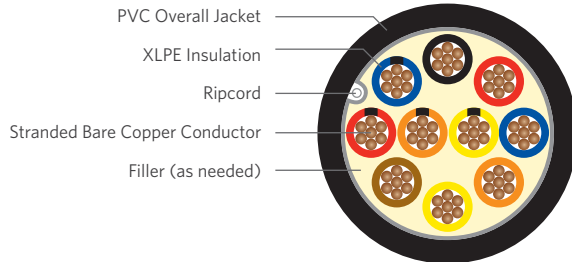
Commercial | Education | Government | Healthcare
Industrial/Manufacturing | Technology | Transportation | Utility

XLPE/PVC, 600V Control, Type TC-ER

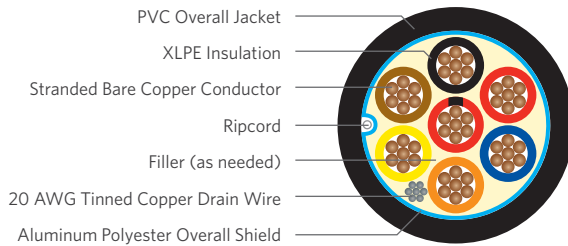
Series E2BF



Series E2BFA



Series E2BFB



PRODUCT DESCRIPTION

The XLPE/PVC, 600V Control, Type TC-ER Cables consist of fully annealed bare copper Class B stranded conductors, covered with Cross-linked Polyethylene (XLPE), unshielded or shielded and black PVC jacket. These cables are used in industrial power or station control circuits.

APPLICATIONS

- In conduit, duct, free air, raceways and direct burial, primary installations include cable trays, and outdoor locations.
- In wet or dry locations
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) used in accordance with NEC for 3 or more conductors; two conductors without a ground wire are Type TC only

FEATURES

- Rated at 90°C wet or dry
- Ripcord (for jackets with thicknesses of 60-mils or less)
- Excellent sunlight resistance
- Smallest OD available for suitable applications
- Meets cold bend test at -25°C

MARKETS



SPECIFICATIONS

Conductor Count	Available in 2 through 37 conductors
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 18 through 10 AWG
Insulation	Cross-linked Polyethylene (XLPE) 18 through 16 AWG are type RFH-2 14 AWG and larger are type XHHW-2
Color Coding	Per ICEA S-58-679 Method 1, Table E-2; additional color coding options available
Fillers	Non-hygroscopic fillers, as necessary to obtain a round finish conductor
Shield (optional)	Overall aluminum polyester foil in contact with 20 AWG stranded tinned copper drain wire
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	Type TC-ER, conductor sizes 18 AWG - 16 AWG: 00000 FT SUPERIOR ESSEX XXAWG XX/C XLPE PVC JKT 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BUR MADE IN USA MMDDYYYY Type TC-ER, conductor sizes 14 AWG - 10 AWG: 00000 FT SUPERIOR ESSEX XXAWG XX/C XHHW-2 PVC JKT 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BUR MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B8, ASTM B33 UL® 44, UL 1277, UL 1685 (flame exposure test) ICEA S-73-532/NEMA WC57, ICEA S-95-658/NEMA WC70 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding Options	Jacket
Cu	B	600V	XLPE	NONE or OS Alum Mylar	PVC

Unshielded Series E2BFA**PART NUMBERS AND PHYSICAL CHARACTERISTICS**

Part Number	Conductor Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E2BFA-141B02CB00	2	14	0.030 (0.76)	0.045 (1.14)	0.365 (9.27)	67 (100)
E2BFA-141B03CB00	3	14	0.030 (0.76)	0.045 (1.14)	0.390 (9.91)	87 (130)
E2BFA-141B04CB00	4	14	0.030 (0.76)	0.045 (1.14)	0.425 (10.80)	107 (160)
E2BFA-141B05CB00	5	14	0.030 (0.76)	0.045 (1.14)	0.465 (11.81)	129 (193)
E2BFA-141B07CB00	7	14	0.030 (0.76)	0.045 (1.14)	0.590 (14.99)	168 (251)
E2BFA-141B09CB00	9	14	0.030 (0.76)	0.060 (1.52)	0.620 (15.75)	230 (343)
E2BFA-141B12CB00	12	14	0.030 (0.76)	0.060 (1.52)	0.680 (17.27)	287 (428)
E2BFA-141B19CB00	19	14	0.030 (0.76)	0.060 (1.52)	0.800 (20.32)	416 (621)
E2BFA-141B25CB00	25	14	0.030 (0.76)	0.060 (1.52)	0.985 (25.02)	575 (858)
E2BFA-141B30CB00	30	14	0.030 (0.76)	0.080 (2.03)	1.050 (26.67)	663 (990)
E2BFA-141B37CB00	37	14	0.030 (0.76)	0.080 (2.03)	1.130 (28.70)	791 (1,181)
E2BFA-121B02CB00	2	12	0.030 (0.76)	0.045 (1.14)	0.410 (10.14)	96 (143)
E2BFA-121B03CB00	3	12	0.030 (0.76)	0.045 (1.14)	0.435 (11.05)	125 (186)
E2BFA-121B04CB00	4	12	0.030 (0.76)	0.045 (1.14)	0.475 (12.07)	157 (234)
E2BFA-121B05CB00	5	12	0.030 (0.76)	0.045 (1.14)	0.515 (13.08)	191 (284)
E2BFA-121B07CB00	7	12	0.030 (0.76)	0.060 (1.52)	0.595 (15.11)	260 (387)
E2BFA-121B09CB00	9	12	0.030 (0.76)	0.060 (1.52)	0.695 (17.65)	340 (506)
E2BFA-121B12CB00	12	12	0.030 (0.76)	0.060 (1.52)	0.780 (19.81)	429 (638)
E2BFA-121B19CB00	19	12	0.030 (0.76)	0.080 (2.03)	0.930 (23.62)	681 (1,013)
E2BFA-121B25CB00	25	12	0.030 (0.76)	0.080 (2.03)	1.095 (27.81)	885 (1,317)
E2BFA-121B30CB00	30	12	0.030 (0.76)	0.080 (2.03)	1.150 (29.21)	1,005 (1,496)
E2BFA-121B37CB00	37	12	0.030 (0.76)	0.080 (2.03)	1.240 (31.50)	1,185 (1,764)
E2BFA-101B02CB00	2	10	0.030 (0.76)	0.045 (1.14)	0.455 (11.56)	130 (193)
E2BFA-101B03CB00	3	10	0.030 (0.76)	0.045 (1.14)	0.485 (12.32)	173 (257)
E2BFA-101B04CB00	4	10	0.030 (0.76)	0.060 (1.52)	0.571 (14.50)	236 (351)
E2BFA-101B05CB00	5	10	0.030 (0.76)	0.060 (1.52)	0.615 (15.62)	287 (427)
E2BFA-101B07CB00	7	10	0.030 (0.76)	0.060 (1.52)	0.670 (17.02)	371 (552)
E2BFA-101B09CB00	9	10	0.030 (0.76)	0.060 (1.52)	0.785 (19.94)	479 (713)
E2BFA-101B12CB00	12	10	0.030 (0.76)	0.080 (2.03)	0.895 (22.73)	644 (958)

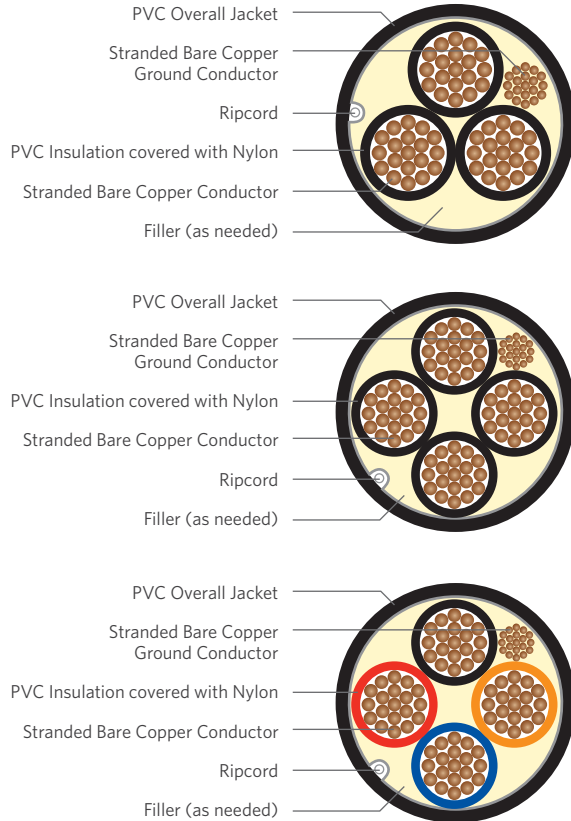
¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

PVC/Nylon/PVC, 600V Power, Type TC-ER

Series E3BE



Series E3BEA



PRODUCT DESCRIPTION

The PVC/Nylon/PVC (THHN/THWN-2), 600V Power, Type TC-ER Cable consist of fully annealed bare copper Class B stranded conductors, covered with Polyvinyl Chloride (PVC) and Nylon insulation, unshielded and black PVC jacket. These cables are used in industrial power.

APPLICATIONS

- In conduit, duct, free air, raceways and direct burial, primary installations include cable trays, and outdoor locations
- In wet or dry locations
- Approved for Class I, Div. 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 (for jackets with thicknesses of 60-mils or less)
- Excellent sunlight resistance
- Smallest O.D. available for suitable applications
- Meets cold bend test at -25°C

MARKETS



SPECIFICATIONS

Conductor Count	Available in 3 or 4 conductors
Conductor	Fully annealed bare copper Class B compressed strand per ASTM B8
Gauge Sizes	Available in 12 AWG through 750 kcmil
Insulation	Polyvinyl Chloride (PVC) covered with Nylon • All gauges are type THHN/THWN-2
Color Coding	Per ICEA S-58-679 Method 4 or Method 1, Table E-1 (K-1) or E-2 (K-2); additional color coding options available
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated bare copper ground
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG XX/C THHN/THWN-2 PVC JKT 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BURIAL FT4/IEEE1202 MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B8 ASTM B33 UL® 83 UL 1277 UL 1685 (flame exposure test) ICEA S-95-658 CSA FT4/IEEE1202(flame compliance) NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding	Jacket
Cu	B	600V	PVC Nylon	NONE	PVC

Unshielded Series E3BEA

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Count	Conductor Size AWG/kcmil	Ground Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E3BEA-121B03CE00	3	12	12	0.020 (0.51)	0.045 (1.14)	0.40 (10.10)	131 (195)
E3BEA-121B04CE00	4	12	12	0.020 (0.51)	0.045 (1.14)	0.44 (11.00)	159 (237)
E3BEA-101B03CE00	3	10	10	0.020 (0.51)	0.045 (1.14)	0.48 (12.10)	195 (290)
E3BEA-101B04CE00	4	10	10	0.020 (0.51)	0.045 (1.14)	0.52 (13.20)	238 (354)
E3BEA-081M03CE00	3	8	10	0.036 (0.91)	0.060 (1.52)	0.62 (15.83)	305 (454)
E3BEA-081M04CE00	4	8	10	0.036 (0.91)	0.060 (1.52)	0.69 (17.42)	381 (567)
E3BEA-061B03CE00	3	6	8	0.036 (0.91)	0.060 (1.52)	0.71 (17.87)	436 (649)
E3BEA-061B04CE00	4	6	8	0.036 (0.91)	0.060 (1.52)	0.77 (19.63)	550 (818)
E3BEA-041B03CE00	3	4	8	0.048 (1.22)	0.080 (2.03)	0.90 (22.86)	678 (1,009)
E3BEA-041B04CE00	4	4	8	0.048 (1.22)	0.080 (2.03)	0.99 (25.08)	853 (1,269)
E3BEA-021B03CE00	3	2	6	0.048 (1.22)	0.080 (2.03)	1.03 (26.02)	987 (1,469)
E3BEA-021B04CE00	4	2	6	0.048 (1.22)	0.080 (2.03)	1.13 (28.63)	1,248 (1,857)
E3BEA-011B03CE00	3	1	6	0.048 (1.22)	0.080 (2.03)	1.16 (29.45)	1,229 (1,829)
E3BEA-011B04CE00	4	1	6	0.048 (1.22)	0.080 (2.03)	1.28 (32.49)	1,561 (2,323)
E3BEA-1A1B03CE00	3	1/0	6	0.059 (1.50)	0.080 (2.03)	1.25 (31.63)	1,507 (2,243)
E3BEA-1A1B04CE00	4	1/0	6	0.059 (1.50)	0.080 (2.03)	1.38 (34.93)	1,871 (2,784)
E3BEA-2A1B03CE00	3	2/0	6	0.059 (1.50)	0.080 (2.03)	1.34 (33.97)	1,796 (2,673)
E3BEA-2A1B04CE00	4	2/0	6	0.059 (1.50)	0.080 (2.03)	1.48 (37.56)	2,256 (3,357)
E3BEA-3A1B03CE00	3	3/0	4	0.059 (1.50)	0.080 (2.03)	1.45 (36.75)	2,200 (3,274)
E3BEA-3A1B04CE00	4	3/0	4	0.059 (1.50)	0.080 (2.03)	1.61 (40.68)	2,786 (4,146)
E3BEA-4A1B03CE00	3	4/0	4	0.059 (1.50)	0.080 (2.03)	1.57 (39.80)	2,649 (3,942)
E3BEA-4A1B04CE00	4	4/0	4	0.059 (1.50)	0.110 (2.79)	1.81 (45.88)	3,521 (5,240)
E3BEA-A11B03CE00	3	250	4	0.070 (1.78)	0.110 (2.79)	1.79 (45.47)	3,196 (4,762)
E3BEA-A11B04CE00	4	250	4	0.070 (1.78)	0.110 (2.79)	1.98 (50.27)	4,122 (6,142)
E3BEA-A31B03CE00	3	350	3	0.070 (1.78)	0.110 (2.79)	2.01 (51.10)	4,289 (6,391)
E3BEA-A31B04CE00	4	350	3	0.070 (1.78)	0.110 (2.79)	2.23 (56.59)	5,591 (8,331)
E3BEA-A61B03CE00	3	500	2	0.070 (1.78)	0.110 (2.79)	2.29 (58.09)	5,848 (8,714)
E3BEA-A61B04CE00	4	500	2	0.070 (1.78)	0.110 (2.79)	2.54 (64.44)	7,628 (11,366)
E3BEA-B21B03CE00	3	750	1	0.070 (1.78)	0.110 (2.79)	2.72 (69.19)	8,587 (12,795)
E3BEA-B21B04CE00	4	750	1	0.070 (1.78)	0.110 (2.79)	3.09 (78.56)	11,349 (16,910)

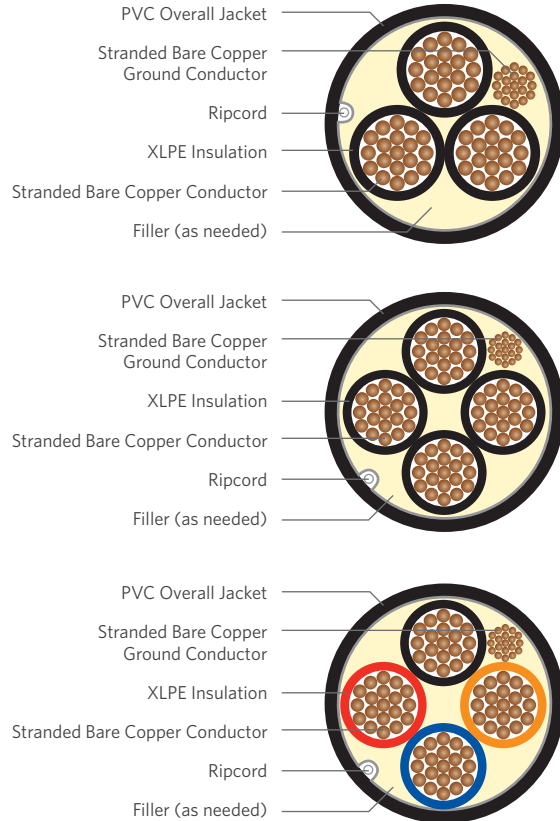
¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

XLPE/PVC, 600V Power, Type TC-ER

Series E3BF



Series E3BFA



PRODUCT DESCRIPTION

The XLPE/PVC, 600V Power, Type TC-ER Cable consist of fully annealed bare copper Class B stranded conductors, covered with Cross-linked Polyethylene (XLPE) insulation, unshielded and black PVC jacket. These cables are used in industrial power.

APPLICATIONS

- In conduit, duct, free air, raceways and direct burial, primary installations include cable trays, and outdoor locations
- In wet or dry locations
- Approved for Class I, Div. 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 (for jackets with thicknesses of 60-mils or less)
- Excellent sunlight resistance
- Smallest O.D. available for suitable applications
- Meets cold bend test at -25°C

MARKETS



SPECIFICATIONS

Conductor Count	Available in 3 or 4 conductors
Conductor	Fully annealed bare copper Class B compressed strand per ASTM B8
Gauge Sizes	Available in 12 AWG through 750 kcmil
Insulation	Cross-linked Polyethylene (XLPE) • All gauges are type XHHW-2
Color Coding	Per ICEA S-58-679 Method 4 or Method 1, Table E-1 (K-1) or E-2 (K-2); additional color coding options available
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated bare copper ground
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG XX/C XHHW-2 PVC JKT 600V 90C WET OR DRY TYPE TC-ER (UL) SUN RES DIR BURIAL MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B8 ASTM B33 UL® 44 UL 1277 UL 1685 (flame compliance) ICEA S-95-658/NEMA WC70 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding	Jacket
Cu	B	600V	XLPE	NONE	PVC

Unshielded Series E3BFA

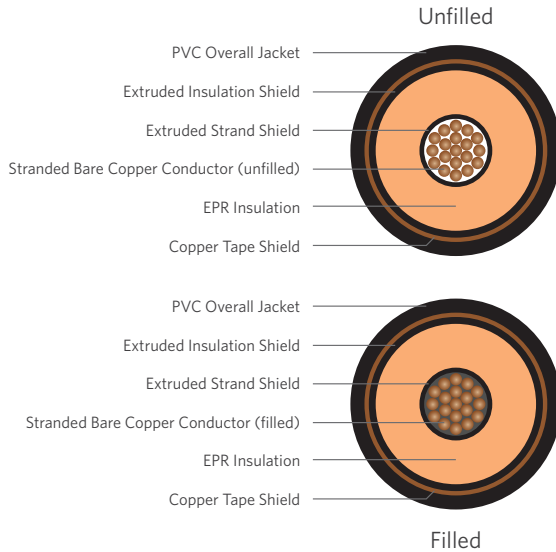
PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Count	Conductor Size AWG/kcmil	Ground Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E3BFA-121B03CE00	3	12	12	0.030 (0.76)	0.045 (1.14)	0.44 (11.1)	143 (213)
E3BFA-121B04CE00	4	12	12	0.030 (0.76)	0.045 (1.14)	0.52 (13.1)	191 (284)
E3BFA-101B03CE00	3	10	10	0.030 (0.76)	0.060 (1.52)	0.49 (12.3)	201 (299)
E3BFA-101B04CE00	4	10	10	0.030 (0.76)	0.060 (1.52)	0.62 (15.6)	287 (427)
E3BFA-081M03CE00	3	8	10	0.045 (1.14)	0.060 (1.52)	0.66 (16.8)	301 (448)
E3BFA-081M04CE00	4	8	10	0.045 (1.14)	0.060 (1.52)	0.72 (18.3)	383 (571)
E3BFA-061B03CE00	3	6	8	0.045 (1.14)	0.060 (1.52)	0.74 (18.8)	409 (609)
E3BFA-061B04CE00	4	6	8	0.045 (1.14)	0.060 (1.52)	0.81 (20.6)	546 (814)
E3BFA-041B03CE00	3	4	8	0.045 (1.14)	0.080 (2.03)	0.88 (22.4)	641 (955)
E3BFA-041B04CE00	4	4	8	0.045 (1.14)	0.080 (2.03)	0.97 (24.6)	807 (1,202)
E3BFA-021B03CE00	3	2	6	0.045 (1.14)	0.080 (2.03)	1.01 (25.7)	964 (1,436)
E3BFA-021B04CE00	4	2	6	0.045 (1.14)	0.080 (2.03)	1.11 (28.2)	1,205 (1,795)
E3BFA-011B03CE00	3	1	6	0.055 (1.40)	0.080 (2.03)	1.14 (29.0)	1,172 (1,746)
E3BFA-011B04CE00	4	1	6	0.055 (1.40)	0.080 (2.03)	1.25 (31.8)	1,502 (2,238)
E3BFA-1A1B03CE00	3	1/0	6	0.055 (1.40)	0.080 (2.03)	1.22 (31.0)	1,401 (2,087)
E3BFA-1A1B04CE00	4	1/0	6	0.055 (1.40)	0.080 (2.03)	1.35 (34.3)	1,813 (2,701)
E3BFA-2A1B03CE00	3	2/0	6	0.055 (1.40)	0.080 (2.03)	1.32 (33.5)	1,656 (2,467)
E3BFA-2A1B04CE00	4	2/0	6	0.055 (1.40)	0.080 (2.03)	1.45 (36.8)	2,174 (3,239)
E3BFA-3A1B03CE00	3	3/0	4	0.055 (1.40)	0.080 (2.03)	1.42 (36.1)	2,139 (3,187)
E3BFA-3A1B04CE00	4	3/0	4	0.055 (1.40)	0.080 (2.03)	1.58 (40.1)	2,734 (4,074)
E3BFA-4A1B03CE00	3	4/0	4	0.055 (1.40)	0.080 (2.03)	1.54 (39.1)	2,529 (3,768)
E3BFA-4A1B04CE00	4	4/0	4	0.055 (1.40)	0.110 (2.79)	1.78 (45.2)	3,360 (5,006)
E3BFA-A11B03CE00	3	250	4	0.065 (1.65)	0.110 (2.79)	1.77 (44.9)	3,113 (4,638)
E3BFA-A11B04CE00	4	250	4	0.065 (1.65)	0.110 (2.79)	1.96 (49.7)	4,013 (5,979)
E3BFA-A31B03CE00	3	350	3	0.065 (1.65)	0.110 (2.79)	1.99 (50.5)	4,194 (6,249)
E3BFA-A31B04CE00	4	350	3	0.065 (1.65)	0.110 (2.79)	2.20 (56.0)	5,413 (8,065)
E3BFA-A61B03CE00	3	500	2	0.065 (1.65)	0.110 (2.79)	2.27 (57.6)	5,737 (8,548)
E3BFA-A61B04CE00	4	500	2	0.065 (1.65)	0.110 (2.79)	2.51 (63.8)	7,482 (11,148)
E3BFA-B21B03CE00	3	750	1	0.080 (2.03)	0.140 (3.56)	2.72 (69.2)	8,465 (12,613)
E3BFA-B21B04CE00	4	750	1	0.080 (2.03)	0.140 (3.56)	3.09 (78.6)	11,187 (16,668)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

EPR/CTS/PVC Power, Type MV-105, 5kV-35kV

Series E8 (Copper Conductors)



MARKETS



PRODUCT DESCRIPTION

The Medium Voltage, EPR/Cu Tape Shield/PVC, Type MV-105 Cable consist of fully annealed bare copper Class B stranded conductors, covered with ethylene propylene rubber (EPR), copper tape shield, and black PVC jacket. These cables are used in industrial power circuits.

APPLICATIONS

- In conduit, duct, free air, and raceways, primary installations include cable trays, and outdoor locations
- 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)
- In wet or dry locations
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Designed to operate continuously at a conductor temperature not exceeding
 - » 105°C for normal operations
 - » 140°C for emergency overload
 - » 250°C for short circuit

FEATURES

- Rated at 105°C wet or dry
- Excellent corona resistance
- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent sunlight resistance
- For CT USE for 1/0 AWG and larger, per UL® 1072
- Meets cold bend test at -35°C

SPECIFICATIONS

Conductor Count	1 conductor
Conductor	Full annealed bare copper Class B compressed strand (filled or unfilled) Also available with copper Class B compact strand
Gauge Sizes	Filled: Available in 2 AWG through 500 kcmil Unfilled: Available in 2 AWG through 1000 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Shield	5 mil annealed copper tape helically applied with a 25% overlap
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	2 AWG - 1 AWG: 00000 FT SUPERIOR ESSEX XXAWG 1/C XXXKV XXX% INSUL LEVEL XXXMILS EPR/PVC JKT TYPE MV-105 SUN RES (UL) MADE IN USA MMDDYYYY (LIGHTNING BOLT) 1/0 AWG - 1000 kcmil: 00000 FT SUPERIOR ESSEX XXAWG (or XXXKCMIL) 1/C XXXKV XXX% INSUL LEVEL XXXMILS EPR/PVC JKT TYPE MV-105 FOR CT USE (UL) SUN RES MADE IN USA MMDDYYYY (LIGHTNING BOLT)
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8 UL 1072, UL 1685 (flame exposure test) ICEA S-93-639/NEMA WC74, ICEA S-97-682 AEC CS8 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation (CCV)	Shield	Jacket
Cu	Filled B or B	MV	EPR	Copper Tape	PVC

Copper Unfilled Cdr 5kV 100% I.L., 90-mils, Shielded Series E8ELE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8ELE-021B01CA00	2	0.280 (7.1)	0.513 (13.03)	0.060 (1.52)	0.756 (19.2)	461 (686)	145	155
E8ELE-011B01CA00	1	0.319 (8.1)	0.552 (14.02)	0.060 (1.52)	0.795 (20.3)	534 (795)	175	180
E8ELE-1A1B01CA00	1/0	0.358 (9.1)	0.592 (15.04)	0.060 (1.52)	0.835 (21.1)	621 (924)	200	210
E8ELE-2A1B01CA00	2/0	0.401 (10.2)	0.635 (16.13)	0.060 (1.52)	0.914 (23.2)	758 (1,128)	225	235
E8ELE-3A1B01CA00	3/0	0.451 (11.5)	0.686 (17.42)	0.060 (1.52)	0.965 (24.5)	891 (1,326)	270	270
E8ELE-4A1B01CA00	4/0	0.507 (12.9)	0.742 (18.85)	0.080 (2.03)	1.021 (26.0)	1,055 (1,570)	305	310
E8ELE-A11B01CA00	250	0.552 (14.0)	0.788 (20.02)	0.080 (2.03)	1.067 (27.1)	1,199 (1,784)	355	345
E8ELE-A31B01CA00	350	0.654 (16.6)	0.891 (22.63)	0.080 (2.03)	1.170 (29.7)	1,562 (2,324)	430	415
E8ELE-A61B01CA00	500	0.781 (19.8)	1.019 (25.88)	0.080 (2.03)	1.298 (32.9)	2,089 (3,108)	530	505
E8ELE-B21B01CA00	750	0.958 (24.3)	1.198 (30.40)	0.080 (2.03)	1.477 (37.5)	2,927 (4,356)	665	630
E8ELE-B51B01CA00	1000	1.106 (28.1)	1.347 (34.20)	0.110 (2.79)	1.626 (41.3)	3,768 (5,607)	755	690

Copper Unfilled Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded Series E8FLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ⁴	Underground Duct ⁵
E8FLE-021B01CA00	2	0.280 (7.1)	0.563 (14.31)	0.060 (1.52)	0.806 (20.5)	498 (741)	165	165
E8FLE-011B01CA00	1	0.319 (8.1)	0.602 (15.29)	0.080 (2.03)	0.881 (22.4)	603 (898)	190	185
E8FLE-1A1B01CA00	1/0	0.358 (9.1)	0.642 (16.31)	0.080 (2.03)	0.921 (23.4)	692 (1,032)	215	215
E8FLE-2A1B01CA00	2/0	0.401 (10.2)	0.685 (17.41)	0.080 (2.03)	0.964 (24.5)	801 (1,194)	255	245
E8FLE-3A1B01CA00	3/0	0.451 (11.5)	0.736 (18.69)	0.080 (2.03)	1.015 (25.8)	937 (1,395)	290	275
E8FLE-4A1B01CA00	4/0	0.507 (12.9)	0.792 (20.12)	0.080 (2.03)	1.071 (27.2)	1,102 (1,643)	330	315
E8FLE-A11B01CA00	250	0.552 (14.0)	0.838 (21.29)	0.080 (2.03)	1.117 (28.4)	1,248 (1,860)	365	345
E8FLE-A31B01CA00	350	0.654 (16.6)	0.941 (23.91)	0.080 (2.03)	1.220 (31.0)	1,615 (2,407)	440	415
E8FLE-A61B01CA00	500	0.781 (19.8)	1.069 (27.15)	0.080 (2.03)	1.348 (34.2)	2,148 (3,200)	535	500
E8FLE-B21B01CA00	750	0.958 (24.3)	1.248 (31.70)	0.080 (2.03)	1.527 (38.8)	2,994 (4,456)	655	610
E8FLE-B51B01CA00	1000	1.106 (28.1)	1.427 (36.20)	0.110 (2.79)	1.770 (45.0)	3,994 (5,943)	755	690

Copper Unfilled Cdr 15kV 100% I.L., 175-mils, Shielded Series E8HLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ⁴	Underground Duct ⁵
E8HLE-021B01CA00	2	0.280 (7.1)	0.693 (17.61)	0.060 (1.52)	0.972 (24.7)	636 (946)	165	165
E8HLE-011B01CA00	1	0.319 (8.1)	0.732 (18.59)	0.080 (2.03)	1.011 (25.6)	716 (1,066)	190	185
E8HLE-1A1B01CA00	1/0	0.358 (9.1)	0.772 (19.61)	0.080 (2.03)	1.051 (26.7)	810 (1,205)	215	215
E8HLE-2A1B01CA00	2/0	0.401 (10.2)	0.815 (20.71)	0.080 (2.03)	1.094 (27.8)	923 (1,374)	255	245
E8HLE-3A1B01CA00	3/0	0.451 (11.5)	0.866 (22.01)	0.080 (2.03)	1.145 (29.1)	1,064 (1,583)	290	275
E8HLE-4A1B01CA00	4/0	0.507 (12.9)	0.922 (23.42)	0.080 (2.03)	1.201 (30.5)	1,236 (1,839)	330	315
E8HLE-A11B01CA00	250	0.552 (14.0)	0.968 (24.59)	0.080 (2.03)	1.247 (31.7)	1,386 (2,063)	365	345
E8HLE-A31B01CA00	350	0.654 (16.6)	1.071 (27.21)	0.080 (2.03)	1.350 (34.3)	1,764 (2,625)	440	415
E8HLE-A61B01CA00	500	0.781 (19.8)	1.199 (30.45)	0.080 (2.03)	1.518 (38.6)	2,362 (3,514)	535	500
E8HLE-B21B01CA00	750	0.958 (24.3)	1.378 (35.00)	0.080 (2.03)	1.657 (42.1)	3,175 (4,726)	655	610
E8HLE-B51B01CA00	1000	1.106 (28.1)	1.527 (38.80)	0.110 (2.79)	1.870 (47.5)	4,153 (6,181)	755	690

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

²Ampacities are in accordance with NEC table 310.60(C)(73), Type MV-105, 2001-5000 Volts, for conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(77), Type MV-105, 2001-5000 Volts, for underground electrical duct, one circuit.

⁴Ampacities are in accordance with NEC table 310.60(C)(73), for MV-105, 5001-35,000 Volts, for conduit in air.

⁵Ampacities are in accordance with NEC table 310.60(C)(77), for MV-105, 5001-35,000 Volts, for underground electrical duct, one circuit.

Copper Unfilled Cdr 15kV 133% I.L., 220-mils, Shielded Series E8JLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8JLE-021B01CA00	2	0.280 (7.1)	0.793 (20.14)	0.080 (2.03)	1.072 (27.2)	729 (1,086)	165	165
E8JLE-011B01CA00	1	0.319 (8.1)	0.832 (21.13)	0.080 (2.03)	1.111 (28.2)	812 (1,211)	190	185
E8JLE-1A1B01CA00	1/0	0.358 (9.1)	0.872 (22.15)	0.080 (2.03)	1.151 (29.2)	909 (1,355)	215	215
E8JLE-2A1B01CA00	2/0	0.401 (10.2)	0.915 (23.24)	0.080 (2.03)	1.194 (30.3)	1,026 (1,529)	255	245
E8JLE-3A1B01CA00	3/0	0.451 (11.5)	0.966 (24.54)	0.080 (2.03)	1.245 (31.6)	1,171 (1,745)	290	275
E8JLE-4A1B01CA00	4/0	0.507 (12.9)	1.022 (25.96)	0.080 (2.03)	1.301 (33.0)	1,348 (2,011)	330	315
E8JLE-A11B01CA00	250	0.552 (14.0)	1.068 (27.13)	0.080 (2.03)	1.347 (34.2)	1,502 (2,238)	365	345
E8JLE-A31B01CA00	350	0.654 (16.6)	1.171 (29.74)	0.080 (2.03)	1.450 (36.8)	1,888 (2,814)	440	415
E8JLE-A61B01CA00	500	0.781 (19.8)	1.299 (32.99)	0.080 (2.03)	1.578 (40.1)	2,497 (3,721)	535	500
E8JLE-B21B01CA00	750	0.958 (24.3)	1.478 (37.50)	0.080 (2.03)	1.821 (46.3)	3,437 (5,115)	655	610
E8JLE-B51B01CA00	1000	1.106 (28.1)	1.627 (41.30)	0.110 (2.79)	1.970 (50.0)	4,321 (6,430)	755	690

Copper Unfilled Cdr 25kV 100% I.L., 260-mils, Shielded Series E8KLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8KLE-1A1B01CA00	1/0	0.358 (9.1)	0.952 (24.18)	0.080 (2.03)	1.231 (31.3)	995 (1,481)	215	215
E8KLE-2A1B01CA00	2/0	0.401 (10.2)	0.995 (25.27)	0.080 (2.03)	1.274 (32.4)	1,115 (1,659)	255	245
E8KLE-3A1B01CA00	3/0	0.451 (11.5)	1.046 (26.57)	0.080 (2.03)	1.325 (33.7)	1,263 (1,879)	290	275
E8KLE-4A1B01CA00	4/0	0.507 (12.9)	1.102 (27.99)	0.080 (2.03)	1.381 (35.1)	1,443 (2,147)	330	315
E8KLE-A11B01CA00	250	0.552 (14.0)	1.148 (29.16)	0.080 (2.03)	1.427 (36.2)	1,600 (2,381)	365	345
E8KLE-A31B01CA00	350	0.654 (16.6)	1.251 (31.78)	0.080 (2.03)	1.531 (38.9)	1,994 (2,966)	440	415
E8KLE-A61B01CA00	500	0.781 (19.8)	1.379 (35.03)	0.080 (2.03)	1.658 (42.1)	2,558 (3,807)	535	500
E8KLE-B21B01CA00	750	0.958 (24.3)	1.558 (39.60)	0.110 (2.79)	1.901 (48.3)	3,567 (5,308)	655	610
E8KLE-B51B01CA00	1000	1.106 (28.1)	1.707 (43.40)	0.110 (2.79)	2.050 (52.1)	4,461 (6,638)	755	690

Copper Unfilled Cdr 25kV 133% I.L., 320-mils, Shielded Series E8LLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8LLE-1A1B01CA00	1/0	0.358 (9.1)	1.072 (27.23)	0.080 (2.03)	1.351 (34.3)	1,133 (1,686)	215	215
E8LLE-2A1B01CA00	2/0	0.401 (10.2)	1.115 (28.32)	0.080 (2.03)	1.394 (35.4)	1,257 (1,871)	255	245
E8LLE-3A1B01CA00	3/0	0.451 (11.5)	1.166 (29.62)	0.080 (2.03)	1.445 (36.7)	1,410 (2,099)	290	275
E8LLE-4A1B01CA00	4/0	0.507 (12.9)	1.222 (31.04)	0.080 (2.03)	1.501 (38.1)	1,596 (2,375)	330	315
E8LLE-A11B01CA00	250	0.552 (14.0)	1.268 (32.21)	0.080 (2.03)	1.547 (39.3)	1,758 (2,616)	365	345
E8LLE-A31B01CA00	350	0.654 (16.6)	1.371 (34.82)	0.080 (2.03)	1.651 (41.9)	2,161 (3,216)	440	415
E8LLE-A61B01CA00	500	0.781 (19.8)	1.499 (38.07)	0.080 (2.03)	1.842 (46.8)	2,852 (4,244)	535	500
E8LLE-B21B01CA00	750	0.958 (24.3)	1.678 (42.60)	0.110 (2.79)	2.021 (51.3)	3,772 (5,614)	655	610
E8LLE-B51B01CA00	1000	1.106 (28.1)	1.827 (46.40)	0.110 (2.79)	2.170 (55.1)	4,681 (6,965)	755	690

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

²Ampacities are in accordance with NEC table 310.60(C)(73), for MV-105, 5001-35,000 Volts, for conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(77), for MV-105, 5001-35,000 Volts, for underground electrical duct, one circuit.

Copper Unfilled Cdr 35kV 100% I.L., 345-mils, Shielded Series E8MLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8MLE-1A1B01CA00	1/0	0.358 (9.1)	1.112 (28.24)	0.080 (2.03)	1.381 (35.1)	1,170 (1,740)	215	215
E8MLE-2A1B01CA00	2/0	0.401 (10.2)	1.155 (29.34)	0.080 (2.03)	1.434 (36.4)	1,307 (1,945)	255	245
E8MLE-3A1B01CA00	3/0	0.451 (11.5)	1.206 (30.63)	0.080 (2.03)	1.485 (37.7)	1,462 (2,176)	290	275
E8MLE-4A1B01CA00	4/0	0.507 (12.9)	1.262 (32.05)	0.080 (2.03)	1.531 (38.9)	1,636 (2,434)	330	315
E8MLE-A11B01CA00	250	0.552 (14.0)	1.308 (33.22)	0.080 (2.03)	1.587 (40.3)	1,813 (2,698)	365	345
E8MLE-A31B01CA00	350	0.654 (16.6)	1.411 (35.84)	0.080 (2.03)	1.754 (44.5)	2,327 (3,463)	440	415
E8MLE-A61B01CA00	500	0.781 (19.8)	1.539 (39.09)	0.110 (2.79)	1.872 (47.5)	2,901 (4,316)	535	500
E8MLE-B21B01CA00	750	0.958 (24.3)	1.718 (43.60)	0.110 (2.79)	2.061 (52.3)	3,843 (5,719)	655	610
E8MLE-B51B01CA00	1000	1.106 (28.1)	1.867 (47.40)	0.110 (2.79)	2.210 (56.1)	4,756 (7,078)	755	690

Copper Unfilled Cdr 35kV 133% I.L., 420-mils, Shielded Series E8NLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8NLE-1A1B01CA00	1/0	0.358 (9.1)	1.262 (32.05)	0.080 (2.03)	1.541 (39.1)	1,376 (2,048)	215	215
E8NLE-2A1B01CA00	2/0	0.401 (10.2)	1.305 (33.15)	0.080 (2.03)	1.584 (40.2)	1,507 (2,242)	255	245
E8NLE-3A1B01CA00	3/0	0.451 (11.5)	1.356 (34.44)	0.080 (2.03)	1.635 (41.5)	1,668 (2,482)	290	275
E8NLE-4A1B01CA00	4/0	0.507 (12.9)	1.412 (35.86)	0.080 (2.03)	1.755 (44.6)	1,970 (2,932)	330	315
E8NLE-A11B01CA00	250	0.552 (14.0)	1.458 (37.03)	0.080 (2.03)	1.801 (45.7)	2,142 (3,187)	365	345
E8NLE-A31B01CA00	350	0.654 (16.6)	1.561 (39.65)	0.110 (2.79)	1.904 (48.4)	2,568 (3,821)	440	415
E8NLE-A61B01CA00	500	0.781 (19.8)	1.689 (42.91)	0.110 (2.79)	2.032 (51.6)	3,173 (4,722)	535	500
E8NLE-B21B01CA00	750	0.958 (24.3)	1.868 (47.50)	0.110 (2.79)	2.211 (56.2)	4,121 (6,133)	655	610
E8NLE-B51B01CA00	1000	1.106 (28.1)	2.017 (51.20)	0.110 (2.79)	2.370 (60.2)	5,073 (7,549)	755	690

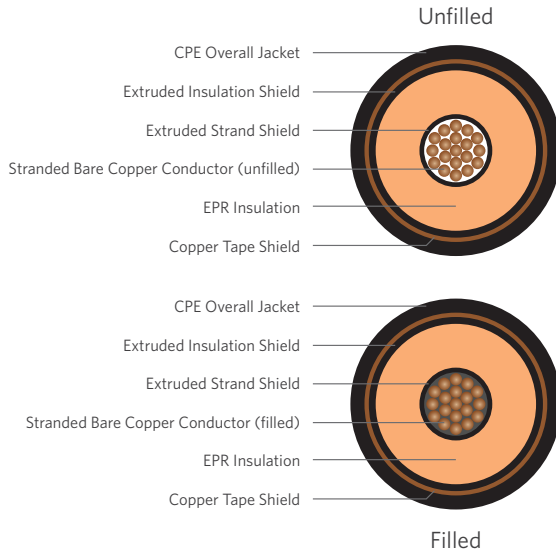
¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

²Ampacities are in accordance with NEC table 310.60(C)(73), for MV-105, 5001-35,000 Volts, for conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(77), for MV-105, 5001-35,000 Volts, for underground electrical duct, one circuit.

EPR/CTS/TP-CPE Power, Type MV-105, 5kV-35kV

Series E8 (Copper Conductors)



MARKETS



PRODUCT DESCRIPTION

The Medium Voltage, EPR/Cu Tape Shield/CPE, Type MV-105 Cable consist of fully annealed bare copper Class B stranded conductors, covered with ethylene propylene rubber (EPR), copper tape shield, and black CPE jacket. These cables are used in industrial power circuits.

APPLICATIONS

- In conduit, duct, free air, and raceways, primary installations include cable trays, and outdoor locations
- 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)
- In wet or dry locations
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Designed to operate continuously at a conductor temperature not exceeding
 - 105°C for normal operations
 - 140°C for emergency overload
 - 250°C for short circuit

FEATURES

- Rated at 105°C wet or dry
- Excellent corona resistance
- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent sunlight resistance
- For CT USE for 1/0 AWG and larger, per UL® 1072
- Meets cold bend test at -35°C

SPECIFICATIONS

Conductor Count	1 conductor
Conductor	Full annealed bare copper Class B compressed strand (filled or unfilled) Also available with copper Class B compact strand
Gauge Sizes	Filled: Available in 2 AWG through 1000 kcmil Unfilled: Available in 2 AWG through 1000 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Shield	5 mil annealed copper tape helically applied with a 25% overlap
Jacket	Thermoplastic Chlorinated Polyethylene (TP-CPE)
Jacket Marking	2 AWG - 1 AWG: 00000 FT SUPERIOR ESSEX XXAWG 1/C XXXKV XXX% INSUL LEVEL XXXMILS EPR/CPE JKT TYPE MV-105 SUN RES (UL) MADE IN USA MMDDYYYY (LIGHTNING BOLT) 1/0 AWG - 1000 kcmil: 00000 FT SUPERIOR ESSEX XXAWG (or XXXKCMIL) 1/C XXXKV XXX% INSUL LEVEL XXXMILS EPR/CPE JKT TYPE MV-105 FOR CT USE (UL) SUN RES MADE IN USA MMDDYYYY (LIGHTNING BOLT)
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8 UL 1072, UL 1685 (flame exposure test) ICEA S-93-639/NEMA WC74, ICEA S-97-682 AIEC CS8 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation (CCV)	Shield	Jacket
Cu	Filled B or B	MV	EPR	Copper Tape	TP CPE

Copper Unfilled Cdr 5kV 100% I.L., 90-mils, Shielded Series E8EME

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8EME-021B01CA00	2	0.280 (7.1)	0.513 (13.03)	0.060 (1.52)	0.756 (19.2)	461 (686)	145	155
E8EME-011B01CA00	1	0.319 (8.1)	0.552 (14.02)	0.060 (1.52)	0.795 (20.3)	534 (795)	175	180
E8EME-1A1B01CA00	1/0	0.358 (9.1)	0.592 (15.04)	0.060 (1.52)	0.835 (21.1)	621 (924)	200	210
E8EME-2A1B01CA00	2/0	0.401 (10.2)	0.635 (16.13)	0.060 (1.52)	0.914 (23.2)	758 (1,128)	225	235
E8EME-3A1B01CA00	3/0	0.451 (11.5)	0.686 (17.42)	0.060 (1.52)	0.965 (24.5)	891 (1,326)	270	270
E8EME-4A1B01CA00	4/0	0.507 (12.9)	0.742 (18.85)	0.080 (2.03)	1.021 (26.0)	1,055 (1,570)	305	310
E8EME-A11B01CA00	250	0.552 (14.0)	0.788 (20.02)	0.080 (2.03)	1.067 (27.1)	1,199 (1,784)	355	345
E8EME-A31B01CA00	350	0.654 (16.6)	0.891 (22.63)	0.080 (2.03)	1.170 (29.7)	1,562 (2,324)	430	415
E8EME-A61B01CA00	500	0.781 (19.8)	1.019 (25.88)	0.080 (2.03)	1.298 (32.9)	2,089 (3,108)	530	505
E8EME-B21B01CA00	750	0.958 (24.3)	1.198 (30.40)	0.080 (2.03)	1.477 (37.5)	2,927 (4,356)	665	630
E8EME-B51B01CA00	1000	1.106 (28.1)	1.347 (34.20)	0.080 (2.03)	1.626 (41.3)	3,768 (5,607)	755	690

Copper Unfilled Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded Series E8FME

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ⁴	Underground Duct ⁵
E8FME-021B01CA00	2	0.280 (7.1)	0.563 (14.31)	0.060 (1.52)	0.806 (20.5)	498 (741)	165	165
E8FME-011B01CA00	1	0.319 (8.1)	0.602 (15.29)	0.080 (2.03)	0.881 (22.4)	603 (898)	190	185
E8FME-1A1B01CA00	1/0	0.358 (9.1)	0.642 (16.31)	0.080 (2.03)	0.921 (23.4)	692 (1,032)	215	215
E8FME-2A1B01CA00	2/0	0.401 (10.2)	0.685 (17.41)	0.080 (2.03)	0.964 (24.5)	801 (1,194)	255	245
E8FME-3A1B01CA00	3/0	0.451 (11.5)	0.736 (18.69)	0.080 (2.03)	1.015 (25.8)	937 (1,395)	290	275
E8FME-4A1B01CA00	4/0	0.507 (12.9)	0.792 (20.12)	0.080 (2.03)	1.071 (27.2)	1,102 (1,643)	330	315
E8FME-A11B01CA00	250	0.552 (14.0)	0.838 (21.29)	0.080 (2.03)	1.117 (28.4)	1,248 (1,860)	365	345
E8FME-A31B01CA00	350	0.654 (16.6)	0.941 (23.91)	0.080 (2.03)	1.220 (31.0)	1,615 (2,407)	440	415
E8FME-A61B01CA00	500	0.781 (19.8)	1.069 (27.15)	0.080 (2.03)	1.348 (34.2)	2,148 (3,200)	535	500
E8FME-B21B01CA00	750	0.958 (24.3)	1.248 (31.70)	0.080 (2.03)	1.527 (38.8)	2,994 (4,456)	655	610
E8FME-B51B01CA00	1000	1.106 (28.1)	1.427 (36.20)	0.080 (2.03)	1.770 (45.0)	3,994 (5,943)	755	690

Copper Unfilled Cdr 15kV 100% I.L., 175-mils, Shielded Series E8HME

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ⁴	Underground Duct ⁵
E8HME-021B01CA00	2	0.280 (7.1)	0.693 (17.61)	0.060 (1.52)	0.972 (24.7)	636 (946)	165	165
E8HME-011B01CA00	1	0.319 (8.1)	0.732 (18.59)	0.080 (2.03)	1.011 (25.6)	716 (1,066)	190	185
E8HME-1A1B01CA00	1/0	0.358 (9.1)	0.772 (19.61)	0.080 (2.03)	1.051 (26.7)	810 (1,205)	215	215
E8HME-2A1B01CA00	2/0	0.401 (10.2)	0.815 (20.71)	0.080 (2.03)	1.094 (27.8)	923 (1,374)	255	245
E8HME-3A1B01CA00	3/0	0.451 (11.5)	0.866 (22.01)	0.080 (2.03)	1.145 (29.1)	1,064 (1,583)	290	275
E8HME-4A1B01CA00	4/0	0.507 (12.9)	0.922 (23.42)	0.080 (2.03)	1.201 (30.5)	1,236 (1,839)	330	315
E8HME-A11B01CA00	250	0.552 (14.0)	0.968 (24.59)	0.080 (2.03)	1.247 (31.7)	1,386 (2,063)	365	345
E8HME-A31B01CA00	350	0.654 (16.6)	1.071 (27.21)	0.080 (2.03)	1.350 (34.3)	1,764 (2,625)	440	415
E8HME-A61B01CA00	500	0.781 (19.8)	1.199 (30.45)	0.080 (2.03)	1.518 (38.6)	2,362 (3,514)	535	500
E8HME-B21B01CA00	750	0.958 (24.3)	1.378 (35.00)	0.080 (2.03)	1.657 (42.1)	3,175 (4,726)	655	610
E8HME-B51B01CA00	1000	1.106 (28.1)	1.527 (38.80)	0.110 (2.79)	1.870 (47.5)	4,153 (6,181)	755	690

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

²Ampacities are in accordance with NEC table 310.60(C)(73), Type MV-105, 2001-5000 Volts, for conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(77), Type MV-105, 2001-5000 Volts, for underground electrical duct, one circuit.

⁴Ampacities are in accordance with NEC table 310.60(C)(73), for MV-105, 5001-35,000 Volts, for conduit in air.

⁵Ampacities are in accordance with NEC table 310.60(C)(77), for MV-105, 5001-35,000 Volts, for underground electrical duct, one circuit.

Copper Unfilled Cdr 15kV 133% I.L., 220-mils, Shielded Series E8JME

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8JME-021B01CA00	2	0.280 (7.1)	0.793 (20.14)	0.080 (2.03)	1.072 (27.2)	729 (1,086)	165	165
E8JME-011B01CA00	1	0.319 (8.1)	0.832 (21.13)	0.080 (2.03)	1.111 (28.2)	812 (1,211)	190	185
E8JME-1A1B01CA00	1/0	0.358 (9.1)	0.872 (22.15)	0.080 (2.03)	1.151 (29.2)	909 (1,355)	215	215
E8JME-2A1B01CA00	2/0	0.401 (10.2)	0.915 (23.24)	0.080 (2.03)	1.194 (30.3)	1,026 (1,529)	255	245
E8JME-3A1B01CA00	3/0	0.451 (11.5)	0.966 (24.54)	0.080 (2.03)	1.245 (31.6)	1,171 (1,745)	290	275
E8JME-4A1B01CA00	4/0	0.507 (12.9)	1.022 (25.96)	0.080 (2.03)	1.301 (33.0)	1,348 (2,011)	330	315
E8JME-A11B01CA00	250	0.552 (14.0)	1.068 (27.13)	0.080 (2.03)	1.347 (34.2)	1,502 (2,238)	365	345
E8JME-A31B01CA00	350	0.654 (16.6)	1.171 (29.74)	0.080 (2.03)	1.450 (36.8)	1,888 (2,814)	440	415
E8JME-A61B01CA00	500	0.781 (19.8)	1.299 (32.99)	0.080 (2.03)	1.578 (40.1)	2,497 (3,721)	535	500
E8JME-B21B01CA00	750	0.958 (24.3)	1.478 (37.50)	0.080 (2.03)	1.821 (46.3)	3,437 (5,115)	655	610
E8JME-B51B01CA00	1000	1.106 (28.1)	1.627 (41.30)	0.110 (2.79)	1.970 (50.0)	4,321 (6,430)	755	690

Copper Unfilled Cdr 25kV 100% I.L., 260-mils, Shielded Series E8KME

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8KME-1A1B01CA00	1/0	0.358 (9.1)	0.952 (24.18)	0.080 (2.03)	1.231 (31.3)	995 (1,481)	215	215
E8KME-2A1B01CA00	2/0	0.401 (10.2)	0.995 (25.27)	0.080 (2.03)	1.274 (32.4)	1,115 (1,659)	255	245
E8KME-3A1B01CA00	3/0	0.451 (11.5)	1.046 (26.57)	0.080 (2.03)	1.325 (33.7)	1,263 (1,879)	290	275
E8KME-4A1B01CA00	4/0	0.507 (12.9)	1.102 (27.99)	0.080 (2.03)	1.381 (35.1)	1,443 (2,147)	330	315
E8KME-A11B01CA00	250	0.552 (14.0)	1.148 (29.16)	0.080 (2.03)	1.427 (36.2)	1,600 (2,381)	365	345
E8KME-A31B01CA00	350	0.654 (16.6)	1.251 (31.78)	0.080 (2.03)	1.531 (38.9)	1,994 (2,966)	440	415
E8KME-A61B01CA00	500	0.781 (19.8)	1.379 (35.03)	0.080 (2.03)	1.658 (42.1)	2,558 (3,807)	535	500
E8KME-B21B01CA00	750	0.958 (24.3)	1.558 (39.60)	0.110 (2.79)	1.901 (48.3)	3,567 (5,308)	655	610
E8KME-B51B01CA00	1000	1.106 (28.1)	1.707 (43.40)	0.110 (2.79)	2.050 (52.1)	4,461 (6,638)	755	690

Copper Unfilled Cdr 25kV 133% I.L., 320-mils, Shielded Series E8LME

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8LME-1A1B01CA00	1/0	0.358 (9.1)	1.072 (27.23)	0.080 (2.03)	1.351 (34.3)	1,133 (1,686)	215	215
E8LME-2A1B01CA00	2/0	0.401 (10.2)	1.115 (28.32)	0.080 (2.03)	1.394 (35.4)	1,257 (1,871)	255	245
E8LME-3A1B01CA00	3/0	0.451 (11.5)	1.166 (29.62)	0.080 (2.03)	1.445 (36.7)	1,410 (2,099)	290	275
E8LME-4A1B01CA00	4/0	0.507 (12.9)	1.222 (31.04)	0.080 (2.03)	1.501 (38.1)	1,596 (2,375)	330	315
E8LME-A11B01CA00	250	0.552 (14.0)	1.268 (32.21)	0.080 (2.03)	1.547 (39.3)	1,758 (2,616)	365	345
E8LME-A31B01CA00	350	0.654 (16.6)	1.371 (34.82)	0.080 (2.03)	1.651 (41.9)	2,161 (3,216)	440	415
E8LME-A61B01CA00	500	0.781 (19.8)	1.499 (38.07)	0.080 (2.03)	1.842 (46.8)	2,852 (4,244)	535	500
E8LME-B21B01CA00	750	0.958 (24.3)	1.678 (42.60)	0.110 (2.79)	2.021 (51.3)	3,772 (5,614)	655	610
E8LME-B51B01CA00	1000	1.106 (28.1)	1.827 (46.40)	0.110 (2.79)	2.170 (55.1)	4,681 (6,965)	755	690

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

²Ampacities are in accordance with NEC table 310.60(C)(73), for MV-105, 5001-35,000 Volts, for conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(77), for MV-105, 5001-35,000 Volts, for underground electrical duct, one circuit.

Copper Unfilled Cdr 35kV 100% I.L., 345-mils, Shielded Series E8MME

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8MME-1A1B01CA00	1/0	0.358 (9.1)	1.112 (28.24)	0.080 (2.03)	1.381 (35.1)	1,170 (1,740)	215	215
E8MME-2A1B01CA00	2/0	0.401 (10.2)	1.155 (29.34)	0.080 (2.03)	1.434 (36.4)	1,307 (1,945)	255	245
E8MME-3A1B01CA00	3/0	0.451 (11.5)	1.206 (30.63)	0.080 (2.03)	1.485 (37.7)	1,462 (2,176)	290	275
E8MME-4A1B01CA00	4/0	0.507 (12.9)	1.262 (32.05)	0.080 (2.03)	1.531 (38.9)	1,636 (2,434)	330	315
E8MME-A11B01CA00	250	0.552 (14.0)	1.308 (33.22)	0.080 (2.03)	1.587 (40.3)	1,813 (2,698)	365	345
E8MME-A31B01CA00	350	0.654 (16.6)	1.411 (35.84)	0.080 (2.03)	1.754 (44.5)	2,327 (3,463)	440	415
E8MME-A61B01CA00	500	0.781 (19.8)	1.539 (39.09)	0.110 (2.79)	1.872 (47.5)	2,901 (4,316)	535	500
E8MME-B21B01CA00	750	0.958 (24.3)	1.718 (43.60)	0.110 (2.79)	2.061 (52.3)	3,843 (5,719)	655	610
E8MME-B51B01CA00	1000	1.106 (28.1)	1.867 (47.40)	0.110 (2.79)	2.210 (56.1)	4,756 (7,078)	755	690

Copper Unfilled Cdr 35kV 133% I.L., 420-mils, Shielded Series E8NME

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8NME-1A1B01CA00	1/0	0.358 (9.1)	1.262 (32.05)	0.080 (2.03)	1.541 (39.1)	1,376 (2,048)	215	215
E8NME-2A1B01CA00	2/0	0.401 (10.2)	1.305 (33.15)	0.080 (2.03)	1.584 (40.2)	1,507 (2,242)	255	245
E8NME-3A1B01CA00	3/0	0.451 (11.5)	1.356 (34.44)	0.080 (2.03)	1.635 (41.5)	1,668 (2,482)	290	275
E8NME-4A1B01CA00	4/0	0.507 (12.9)	1.412 (35.86)	0.080 (2.03)	1.755 (44.6)	1,970 (2,932)	330	315
E8NME-A11B01CA00	250	0.552 (14.0)	1.458 (37.03)	0.080 (2.03)	1.801 (45.7)	2,142 (3,187)	365	345
E8NME-A31B01CA00	350	0.654 (16.6)	1.561 (39.65)	0.110 (2.79)	1.904 (48.4)	2,568 (3,821)	440	415
E8NME-A61B01CA00	500	0.781 (19.8)	1.689 (42.91)	0.110 (2.79)	2.032 (51.6)	3,173 (4,722)	535	500
E8NME-B21B01CA00	750	0.958 (24.3)	1.868 (47.50)	0.110 (2.79)	2.211 (56.2)	4,121 (6,133)	655	610
E8NME-B51B01CA00	1000	1.106 (28.1)	2.017 (51.20)	0.110 (2.79)	2.370 (60.2)	5,073 (7,549)	755	690

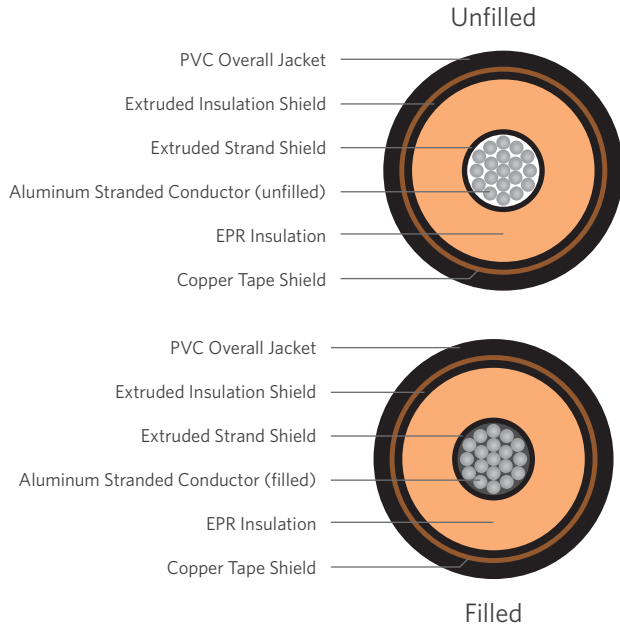
¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

²Ampacities are in accordance with NEC table 310.60(C)(73), for MV-105, 5001-35,000 Volts, for conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(77), for MV-105, 5001-35,000 Volts, for underground electrical duct, one circuit.

EPR/CTS/PVC Power, Type MV-105, 5kV-35kV

Series E8 (Aluminum Conductors)



MARKETS



PRODUCT DESCRIPTION

The Medium Voltage, EPR/Cu Tape Shield/PVC, Type MV-105 Cable consist of Aluminum Class B stranded conductors, covered with ethylene propylene rubber (EPR), copper tape shield, and black PVC jacket. These cables are used in industrial power circuits.

APPLICATIONS

- In conduit, duct, free air, and raceways, primary installations include cable trays, and outdoor locations
- 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)
- In wet or dry locations
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Designed to operate continuously at a conductor temperature not exceeding
 - 105°C for normal operations
 - 140°C for emergency overload
 - 250°C for short circuit

FEATURES

- Rated at 105°C wet or dry
- Excellent corona resistance
- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent sunlight resistance
- For CT USE for 1/0 AWG and larger, per UL® 1072
- Meets cold bend test at -35°C

SPECIFICATIONS

Conductor Count	1 conductor
Conductor	Aluminum 1350 compressed lay stranded Class B (filled or unfilled) Also available with AL-8000 Series compressed strand
Gauge Sizes	Filled: Available in 2 AWG through 500 kcmil Unfilled: Available in 2 AWG through 1250 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Shield	5 mil annealed copper tape helically applied with a 25% overlap
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	2 AWG - 1 AWG: 00000 FT SUPERIOR ESSEX XXAWG AL 1/C XXXKV XXX% INSUL LEVEL XXXMILS EPR/PVC JKT TYPE MV-105 SUN RES (UL) MADE IN USA MMDDYYYY (LIGHTNING BOLT) 1/0 AWG - 1000 kcmil: 00000 FT SUPERIOR ESSEX XXAWG AL (or XXXXKCMIL) 1/C XXXKV XXX% INSUL LEVEL XXXMILS EPR/PVC JKT TYPE MV-105 FOR CT USE (UL) SUN RES MADE IN USA MMDDYYYY (LIGHTNING BOLT)
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B-230, ASTM B-231 UL 1072, UL 1685 (flame exposure test) ICEA S-93-639/NEMA WC74, ICEA S-97-682 AIEC CS8 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation (CCV)	Shield	Jacket
Al	Filled B or B	MV	EPR	Copper Tape	PVC

Aluminum Unfilled Cdr 5kV 100% I.L., 90-mils, Shielded Series E8ELE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number ⁶	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8ELE-023F01CA00	2	0.280 (7.1)	0.513 (13.03)	0.060 (1.52)	0.756 (19.2)	319 (462)	125	115
E8ELE-013F01CA00	1	0.319 (8.1)	0.552 (14.02)	0.060 (1.52)	0.795 (20.3)	354 (513)	140	135
E8ELE-1A3F01CA00	1/0	0.358 (9.1)	0.592 (15.04)	0.060 (1.52)	0.835 (21.1)	393 (569)	160	155
E8ELE-2A3F01CA00	2/0	0.401 (10.2)	0.635 (16.13)	0.060 (1.52)	0.914 (23.2)	471 (682)	185	175
E8ELE-3A3F01CA00	3/0	0.451 (11.5)	0.686 (17.42)	0.060 (1.52)	0.965 (24.5)	529 (766)	210	210
E8ELE-4A3F01CA00	4/0	0.507 (12.9)	0.742 (18.85)	0.080 (2.03)	1.021 (26.0)	598 (866)	245	240
E8ELE-A13F01CA00	250	0.552 (14.0)	0.788 (20.02)	0.080 (2.03)	1.067 (27.1)	657 (951)	270	280
E8ELE-A33F01CA00	350	0.654 (16.6)	0.891 (22.63)	0.080 (2.03)	1.170 (29.7)	802 (1,161)	325	340
E8ELE-A63F01CA00	500	0.781 (19.8)	1.019 (25.88)	0.080 (2.03)	1.298 (32.9)	1,007 (1,458)	400	425

Aluminum Unfilled Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded Series E8FLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number ⁶	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ⁴	Underground Duct ⁵
E8FLE-023F01CA00	2	0.280 (7.1)	0.563 (14.31)	0.060 (1.52)	0.806 (20.5)	356 (516)	130	130
E8FLE-013F01CA00	1	0.319 (8.1)	0.602 (15.29)	0.060 (1.52)	0.881 (22.4)	422 (611)	145	150
E8FLE-1A3F01CA00	1/0	0.358 (9.1)	0.642 (16.31)	0.060 (1.52)	0.921 (23.4)	362 (524)	165	170
E8FLE-2A3F01CA00	2/0	0.401 (10.2)	0.685 (17.41)	0.060 (1.52)	0.964 (24.5)	432 (626)	190	200
E8FLE-3A3F01CA00	3/0	0.451 (11.5)	0.736 (18.69)	0.080 (2.03)	1.015 (25.8)	487 (705)	215	225
E8FLE-4A3F01CA00	4/0	0.507 (12.9)	0.792 (20.12)	0.080 (2.03)	1.071 (27.2)	554 (802)	245	260
E8FLE-A13F01CA00	250	0.552 (14.0)	0.838 (21.29)	0.080 (2.03)	1.117 (28.4)	707 (1,024)	270	290
E8FLE-A33F01CA00	350	0.654 (16.6)	0.941 (23.91)	0.080 (2.03)	1.220 (31.0)	755 (1,093)	330	350
E8FLE-A63F01CA00	500	0.781 (19.8)	1.069 (27.15)	0.080 (2.03)	1.348 (34.2)	1,066 (1,544)	400	430
E8FLE-B23F01CA00	750	0.958 (24.3)	1.248 (31.70)	0.080 (2.03)	1.527 (38.8)	1,277 (1,849)	490	540

Aluminum Unfilled Cdr 15kV 100% I.L., 175-mils, Shielded Series E8HLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number ⁶	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ⁴	Underground Duct ⁵
E8HLE-023F01CA00	2	0.280 (7.1)	0.693 (17.61)	0.060 (1.52)	0.972 (24.7)	494 (715)	130	130
E8HLE-013F01CA00	1	0.319 (8.1)	0.732 (18.59)	0.080 (2.03)	1.011 (25.6)	535 (775)	145	150
E8HLE-1A3F01CA00	1/0	0.358 (9.1)	0.772 (19.61)	0.080 (2.03)	1.051 (26.7)	582 (843)	165	170
E8HLE-2A3F01CA00	2/0	0.401 (10.2)	0.815 (20.71)	0.080 (2.03)	1.094 (27.8)	636 (921)	190	200
E8HLE-3A3F01CA00	3/0	0.451 (11.5)	0.866 (22.01)	0.080 (2.03)	1.145 (29.1)	701 (1,015)	215	225
E8HLE-4A3F01CA00	4/0	0.507 (12.9)	0.922 (23.42)	0.080 (2.03)	1.201 (30.5)	779 (1,128)	245	260
E8HLE-A13F01CA00	250	0.552 (14.0)	0.968 (24.59)	0.080 (2.03)	1.247 (31.7)	845 (1,224)	270	290
E8HLE-A33F01CA00	350	0.654 (16.6)	1.071 (27.21)	0.080 (2.03)	1.350 (34.3)	1,005 (1,455)	330	350
E8HLE-A63F01CA00	500	0.781 (19.8)	1.199 (30.45)	0.080 (2.03)	1.518 (38.6)	1,228 (1,778)	400	430

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

²Ampacities are in accordance with NEC table 310.60(C)(78), Type MV-105, 2001-5000 Volts, for conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(74), Type MV-105, 2001-5000 Volts, for underground electrical duct, one circuit.

⁴Ampacities are in accordance with NEC table 310.60(C)(78), for MV-105, 5001-35,000 Volts, for conduit in air.

⁵Ampacities are in accordance with NEC table 310.60(C)(74), for MV-105, 5001-35,000 Volts, for underground electrical duct, one circuit.

⁶For AL-8000 series aluminum alloy compressed conductor, substitute in the Part Number the "3F" with "4G".

Aluminum Unfilled Cdr 15kV 133% I.L., 220-mils, Shielded Series E8JLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number ⁴	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8JLE-023F01CA00	2	0.280 (7.1)	0.793 (20.14)	0.080 (2.03)	1.072 (27.2)	587 (850)	130	130
E8JLE-013F01CA00	1	0.319 (8.1)	0.832 (21.13)	0.080 (2.03)	1.111 (28.2)	632 (915)	145	150
E8JLE-1A3F01CA00	1/0	0.358 (9.1)	0.872 (22.15)	0.080 (2.03)	1.151 (29.2)	682 (988)	165	170
E8JLE-2A3F01CA00	2/0	0.401 (10.2)	0.915 (23.24)	0.080 (2.03)	1.194 (30.3)	739 (1,070)	190	200
E8JLE-3A3F01CA00	3/0	0.451 (11.5)	0.966 (24.54)	0.080 (2.03)	1.245 (31.6)	809 (1,172)	215	225
E8JLE-4A3F01CA00	4/0	0.507 (12.9)	1.022 (25.96)	0.080 (2.03)	1.301 (33.0)	891 (1,290)	245	260
E8JLE-A13F01CA00	250	0.552 (14.0)	1.068 (27.13)	0.080 (2.03)	1.347 (34.2)	960 (1,390)	270	290
E8JLE-A33F01CA00	350	0.654 (16.6)	1.171 (29.74)	0.080 (2.03)	1.450 (36.8)	1,129 (1,635)	330	350
E8JLE-A63F01CA00	500	0.781 (19.8)	1.299 (32.99)	0.080 (2.03)	1.578 (40.1)	1,363 (1,974)	400	430
E8JLE-B23F01CA00	750	0.958 (24.3)	1.478 (37.50)	0.080 (2.03)	1.821 (46.3)	1,840 (2,665)	490	540

Aluminum Unfilled Cdr 25kV 100% I.L., 260-mils, Shielded Series E8KLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number ⁴	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8KLE-1A3F01CA00	1/0	0.358 (9.1)	0.952 (24.18)	0.080 (2.03)	1.231 (31.3)	767 (1,111)	165	170
E8KLE-2A3F01CA00	2/0	0.401 (10.2)	0.995 (25.27)	0.080 (2.03)	1.274 (32.4)	827 (1,198)	190	200
E8KLE-3A3F01CA00	3/0	0.451 (11.5)	1.046 (26.57)	0.080 (2.03)	1.325 (33.7)	900 (1,303)	215	225
E8KLE-4A3F01CA00	4/0	0.507 (12.9)	1.102 (27.99)	0.080 (2.03)	1.381 (35.1)	986 (1,428)	245	260
E8KLE-A13F01CA00	250	0.552 (14.0)	1.148 (29.16)	0.080 (2.03)	1.427 (36.2)	1,059 (1,534)	270	290
E8KLE-A33F01CA00	350	0.654 (16.6)	1.251 (31.78)	0.080 (2.03)	1.531 (38.9)	1,234 (1,787)	330	350
E8KLE-A63F01CA00	500	0.781 (19.8)	1.379 (35.03)	0.080 (2.03)	1.658 (42.1)	1,476 (2,137)	400	430
E8KLE-B23F01CA00	750	0.958 (24.3)	1.558 (39.60)	0.110 (2.79)	1.901 (48.3)	1,970 (2,853)	490	540

Aluminum Unfilled Cdr 25kV 133% I.L., 320-mils, Shielded Series E8LLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number ⁴	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8LLE-1A3F01CA00	1/0	0.358 (9.1)	1.072 (27.23)	0.080 (2.03)	1.351 (34.3)	766 (1,109)	165	170
E8LLE-2A3F01CA00	2/0	0.401 (10.2)	1.115 (28.32)	0.080 (2.03)	1.394 (35.4)	970 (1,405)	190	200
E8LLE-3A3F01CA00	3/0	0.451 (11.5)	1.166 (29.62)	0.080 (2.03)	1.445 (36.7)	1,048 (1,518)	215	225
E8LLE-4A3F01CA00	4/0	0.507 (12.9)	1.222 (31.04)	0.080 (2.03)	1.501 (38.1)	1,139 (1,649)	245	260
E8LLE-A13F01CA00	250	0.552 (14.0)	1.268 (32.21)	0.080 (2.03)	1.547 (39.3)	1,216 (1,761)	270	290
E8LLE-A33F01CA00	350	0.654 (16.6)	1.371 (34.82)	0.080 (2.03)	1.651 (41.9)	1,402 (2,030)	330	350
E8LLE-A63F01CA00	500	0.781 (19.8)	1.499 (38.07)	0.080 (2.03)	1.842 (46.8)	1,770 (2,563)	400	430
E8LLE-B23F01CA00	750	0.958 (24.3)	1.678 (42.60)	0.110 (2.79)	2.021 (51.3)	2,175 (3,150)	490	540

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

²Ampacities are in accordance with NEC table 310.60(C)(78), for MV-105, 5001-35,000 Volts, for conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(74), for MV-105, 5001-35,000 Volts, for underground electrical duct, one circuit.

⁴For AL-8000 series aluminum alloy compressed conductor, substitute in the Part Number the "3F" with "4G".

Aluminum Unfilled Cdr 35kV 100% I.L., 345-mils, Shielded Series E8MLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number ⁴	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8MLE-1A3F01CA00	1/0	0.358 (9.1)	1.112 (28.24)	0.080 (2.03)	1.381 (35.1)	954 (1,381)	165	170
E8MLE-2A3F01CA00	2/0	0.401 (10.2)	1.155 (29.34)	0.080 (2.03)	1.434 (36.4)	1,020 (1,477)	190	200
E8MLE-3A3F01CA00	3/0	0.451 (11.5)	1.206 (30.63)	0.080 (2.03)	1.485 (37.7)	1,100 (1,593)	215	225
E8MLE-4A3F01CA00	4/0	0.507 (12.9)	1.262 (32.05)	0.080 (2.03)	1.531 (38.9)	1,193 (1,728)	245	260
E8MLE-A13F01CA00	250	0.552 (14.0)	1.308 (33.22)	0.080 (2.03)	1.587 (40.3)	1,271 (1,841)	270	290
E8MLE-A33F01CA00	350	0.654 (16.6)	1.411 (35.84)	0.080 (2.03)	1.754 (44.5)	1,568 (2,271)	330	350
E8MLE-A63F01CA00	500	0.781 (19.8)	1.539 (39.09)	0.110 (2.79)	1.872 (47.5)	1,835 (2,657)	400	430

Aluminum Unfilled Cdr 35kV 133% I.L., 420-mils, Shielded Series E8NLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number ⁴	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
							Conduit in Air ²	Underground Duct ³
E8NLE-1A3F01CA00	1/0	0.358 (9.1)	1.262 (32.05)	0.080 (2.03)	1.541 (39.1)	1,148 (1,662)	165	170
E8NLE-2A3F01CA00	2/0	0.401 (10.2)	1.305 (33.15)	0.080 (2.03)	1.584 (40.2)	1,219 (1,765)	190	200
E8NLE-3A3F01CA00	3/0	0.451 (11.5)	1.356 (34.44)	0.080 (2.03)	1.635 (41.5)	1,305 (1,890)	215	225
E8NLE-4A3F01CA00	4/0	0.507 (12.9)	1.412 (35.86)	0.080 (2.03)	1.755 (44.6)	1,513 (2,191)	245	260
E8NLE-A13F01CA00	250	0.552 (14.0)	1.458 (37.03)	0.080 (2.03)	1.801 (45.7)	1,601 (2,318)	270	290
E8NLE-A33F01CA00	350	0.654 (16.6)	1.561 (39.65)	0.110 (2.79)	1.904 (48.4)	1,809 (2,620)	330	350
E8NLE-A63F01CA00	500	0.781 (19.8)	1.689 (42.91)	0.110 (2.79)	2.032 (51.6)	2,091 (3,028)	400	430
E8NLE-B23F01CA00	750	0.958 (24.3)	1.868 (47.50)	0.110 (2.79)	2.211 (56.2)	2,684 (3,887)	490	540

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

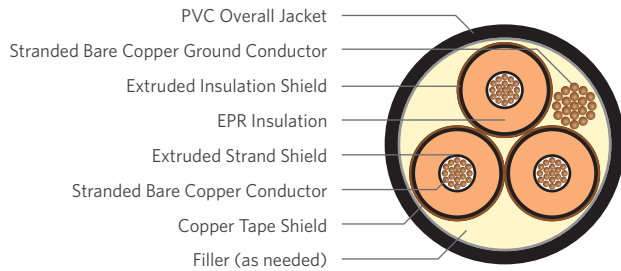
²Ampacities are in accordance with NEC table 310.60(C)(78), for MV-105, 5001-35,000 Volts, for conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(74), for MV-105, 5001-35,000 Volts, for underground electrical duct, one circuit.

⁴For AL-8000 series aluminum alloy compressed conductor, substitute in the Part Number the "3F" with "4G".

EPR/CTS/PVC Power, Type MV-105, 3 Conductor, 5kV-15kV

Series E8 (Copper Conductors)



PRODUCT KEY

Conductor	Stranding	Voltage	Insulation (CCV)	Shield	Jacket
Cu	B	MV	EPR	Copper Tape	PVC

PRODUCT DESCRIPTION

The 3 Conductor MV-105 Power Cables consist of fully annealed bare copper Class B stranded conductors, covered with ethylene propylene rubber (EPR), copper tape shield, and black PVC jacket. These cables are used in industrial power circuits.

APPLICATIONS

- In conduit, duct, free air, direct burial and raceways, primary installations include cable trays, and outdoor locations
- In wet or dry locations
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Designed to operate continuously at a conductor temperature not exceeding
 - 105°C for normal operations
 - 140°C for emergency overload
 - 250°C for short circuit

FEATURES

- Rated at 105°C wet or dry
- Excellent corona resistance
- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent sunlight resistance
- For CT USE per UL® 1072
- Meets cold bend test at -35°C
- For direct burial applications

MARKETS



SPECIFICATIONS

Conductor Count	3 conductor
Conductor	Full annealed bare copper Class B compressed strand (filled or unfilled) Also available with copper Class B compact strand
Gauge Sizes	Available in 2 AWG through 750 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Phase Identification	Color ribbons in each phase (standard: black-red-blue)
Shield	5 mil annealed copper tape helically applied with a 25% overlap
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated bare copper ground
Overall Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (or XXXKCMIL) 3/C XXKV XXX% INSUL LEVEL XXXMILS EPR/PVC JKT TYPE MV-105 FOR CT USE (UL) SUN RES DIR BUR MADE IN USA MMDDYYYY (LIGHTNING BOLT)
Packaging	Non-returnable reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8 UL 1072 UL 1685 (flame exposure test) ICEA S-93-639/NEMA WC74 ICEA S-97-682 AIEC CS8 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA

UL is a registered trademark of UL LLC.

Copper Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded Series E8FLR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Ground Wire AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity		
								Conduit in Air ²	Underground Duct ³	Tray ⁴
E8FLR-021B03CB00	2	0.280 (7.1)	0.563 (14.31)	6	0.080 (2.03)	1.614 (41.0)	1644 (2446)	165	160	185
E8FLR-011B03CB00	1	0.319 (8.1)	0.602 (15.29)	4	0.080 (2.03)	1.762 (44.8)	1976 (2940)	185	185	210
E8FLR-1A1B03CB00	1/0	0.358 (9.1)	0.642 (16.31)	4	0.080 (2.03)	1.848 (46.9)	2268 (3375)	215	210	240
E8FLR-2A1B03CB00	2/0	0.401 (10.2)	0.685 (17.41)	4	0.080 (2.03)	1.940 (49.3)	2594 (3860)	245	235	275
E8FLR-3A1B03CB00	3/0	0.451 (11.5)	0.736 (18.69)	3	0.080 (2.03)	2.050 (52.1)	3033 (4513)	280	270	315
E8FLR-4A1B03CB00	4/0	0.507 (12.9)	0.792 (20.12)	3	0.110 (2.79)	2.170 (55.1)	3529 (5252)	320	305	360
E8FLR-A11B03CB00	250	0.552 (14.0)	0.838 (21.29)	2	0.110 (2.79)	2.269 (57.6)	4004 (5958)	350	335	400
E8FLR-A31B03CB00	350	0.654 (16.6)	0.941 (23.91)	2	0.110 (2.79)	2.491 (63.3)	5245 (7805)	430	400	490
E8FLR-A61B03CB00	500	0.781 (19.8)	1.069 (27.15)	1	0.140 (3.55)	2.825 (71.7)	7058 (11616)	525	485	600
E8FLR-B21B03CB00	750	0.958 (24.3)	1.248 (31.70)	1/0	0.140 (3.55)	3.140 (79.8)	9833 (14633)	635	585	745

Copper Cdr 15kV 133% I.L., 220-mils, Shielded Series E8JLR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Ground Wire AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity		
								Conduit in Air ²	Underground Duct ³	Tray ⁴
E8JLR-021B03CB00	2	0.280 (7.1)	0.793 (20.14)	6	0.110 (2.79)	2.172 (55.2)	2434 (3623)	165	160	185
E8JLR-011B03CB00	1	0.319 (8.1)	0.832 (21.13)	4	0.110 (2.79)	2.256 (57.3)	2749 (4091)	185	185	210
E8JLR-1A1B03CB00	1/0	0.358 (9.1)	0.872 (22.15)	4	0.110 (2.79)	2.342 (59.5)	3069 (4567)	215	210	240
E8JLR-2A1B03CB00	2/0	0.401 (10.2)	0.915 (23.24)	4	0.110 (2.79)	2.435 (61.8)	3429 (5103)	245	235	275
E8JLR-3A1B03CB00	3/0	0.451 (11.5)	0.966 (24.54)	3	0.110 (2.79)	2.544 (64.6)	3916 (5827)	280	270	315
E8JLR-4A1B03CB00	4/0	0.507 (12.9)	1.022 (25.96)	3	0.110 (2.79)	2.665 (67.7)	4475 (6659)	320	305	360
E8JLR-A11B03CB00	250	0.552 (14.0)	1.068 (27.13)	2	0.110 (2.79)	2.824 (71.7)	5168 (7690)	350	335	400
E8JLR-A31B03CB00	350	0.654 (16.6)	1.171 (29.74)	2	0.140 (3.55)	3.045 (77.3)	6289 (9359)	430	400	490
E8JLR-A61B03CB00	500	0.781 (19.8)	1.299 (32.99)	1	0.140 (3.55)	3.320 (84.3)	8102 (12057)	525	485	600
E8JLR-B21B03CB00	750	0.958 (24.3)	1.478 (37.50)	1/0	0.140 (3.55)	3.610 (91.7)	10978 (16337)	635	585	745

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

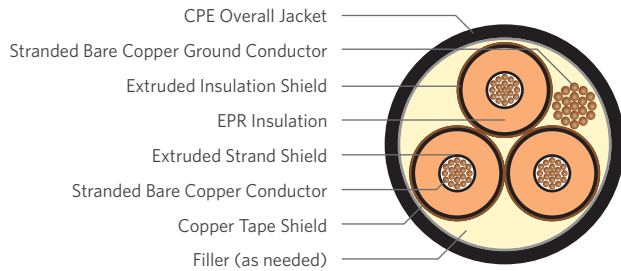
²Ampacities are in accordance with NEC table 310.60(C)(75), Type MV-10S, 5001-35000 Volts, for tray or conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(79), Type MV-10S, 5001-35000 Volts s, for underground duct, one circuit.

⁴Ampacities are in accordance with NEC table 310.60(C)(71), Type MV-10S, 5001-35000 Volts, for in air (tray).

EPR/CTS/TP-CPE Power, Type MV-105, 3 Conductor, 5kV-15kV

Series E8 (Copper Conductors)



PRODUCT KEY

Conductor	Stranding	Voltage	Insulation (CCV)	Shield	Jacket
Cu	B	MV	EPR	Copper Tape	TP CPE

PRODUCT DESCRIPTION

The 3 Conductor MV-105 Power Cables consist of fully annealed bare copper Class B stranded conductors, covered with ethylene propylene rubber (EPR), copper tape shield, and black CPE jacket. These cables are used in industrial power circuits.

APPLICATIONS

- In conduit, duct, free air, direct burial and raceways, primary installations include cable trays, and outdoor locations
- In wet or dry locations
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Designed to operate continuously at a conductor temperature not exceeding
 - 105°C for normal operations
 - 140°C for emergency overload
 - 250°C for short circuit

FEATURES

- Rated at 105°C wet or dry
- Excellent corona resistance
- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent sunlight resistance
- For CT USE per UL® 1072
- Meets cold bend test at -35°C
- For direct burial applications

MARKETS



SPECIFICATIONS

Conductor Count	3 conductor
Conductor	Full annealed bare copper Class B compressed strand (filled or unfilled) Also available with copper Class B compact strand
Gauge Sizes	Available in 2 AWG through 750 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Phase Identification	Color ribbons in each phase (standard: black-red-blue)
Shield	5mil annealed copper tape helically applied with a 25% overlap
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated bare copper ground
Overall Jacket	Thermoplastic Chlorinated Polyethylene (TP-CPE)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (or XXXKCMIL) 3/C XXKV XXX% INSUL LEVEL XXXMILS EPR/CPE JKT TYPE MV-105 FOR CT USE (UL) SUN RES DIR BUR MADE IN USA MMDDYYYY (LIGHTNING BOLT)
Packaging	Non-returnable reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8 UL 1072 UL 1685 (flame exposure test) ICEA S-93-639/NEMA WC74 ICEA S-97-682 AIEC CS8 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA

UL is a registered trademark of UL LLC.

Copper Cdr 5kV 133%/8kV 100% I.L., 115-mils, Shielded Series E8FMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Ground Wire AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity		
								Conduit in Air ²	Underground Duct ³	Tray ⁴
E8FMR-021B03CB00	2	0.280 (7.1)	0.563 (14.31)	6	0.080 (2.03)	1.614 (41.0)	1644 (2446)	165	160	185
E8FMR-011B03CB00	1	0.319 (8.1)	0.602 (15.29)	4	0.080 (2.03)	1.762 (44.8)	1976 (2940)	185	185	210
E8FMR-1A1B03CB00	1/0	0.358 (9.1)	0.642 (16.31)	4	0.080 (2.03)	1.848 (46.9)	2268 (3375)	215	210	240
E8FMR-2A1B03CB00	2/0	0.401 (10.2)	0.685 (17.41)	4	0.080 (2.03)	1.940 (49.3)	2594 (3860)	245	235	275
E8FMR-3A1B03CB00	3/0	0.451 (11.5)	0.736 (18.69)	3	0.080 (2.03)	2.050 (52.1)	3033 (4513)	280	270	315
E8FMR-4A1B03CB00	4/0	0.507 (12.9)	0.792 (20.12)	3	0.110 (2.79)	2.170 (55.1)	3529 (5252)	320	305	360
E8FMR-A11B03CB00	250	0.552 (14.0)	0.838 (21.29)	2	0.110 (2.79)	2.269 (57.6)	4004 (5958)	350	335	400
E8FMR-A31B03CB00	350	0.654 (16.6)	0.941 (23.91)	2	0.110 (2.79)	2.491 (63.3)	5245 (7805)	430	400	490
E8FMR-A61B03CB00	500	0.781 (19.8)	1.069 (27.15)	1	0.140 (3.55)	2.825 (71.7)	7058 (11616)	525	485	600
E8FMR-B21B03CB00	750	0.958 (24.3)	1.248 (31.70)	1/0	0.140 (3.55)	3.140 (79.8)	9833 (14633)	635	585	745

Copper Cdr 15kV 133% I.L., 220-mils, Shielded Series E8JMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Ground Wire AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity		
								Conduit in Air ²	Underground Duct ³	Tray ⁴
E8JMR-021B03CB00	2	0.280 (7.1)	0.793 (20.14)	6	0.110 (2.79)	2.172 (55.2)	2434 (3623)	165	160	185
E8JMR-011B03CB00	1	0.319 (8.1)	0.832 (21.13)	4	0.110 (2.79)	2.256 (57.3)	2749 (4091)	185	185	210
E8JMR-1A1B03CB00	1/0	0.358 (9.1)	0.872 (22.15)	4	0.110 (2.79)	2.342 (59.5)	3069 (4567)	215	210	240
E8JMR-2A1B03CB00	2/0	0.401 (10.2)	0.915 (23.24)	4	0.110 (2.79)	2.435 (61.8)	3429 (5103)	245	235	275
E8JMR-3A1B03CB00	3/0	0.451 (11.5)	0.966 (24.54)	3	0.110 (2.79)	2.544 (64.6)	3916 (5827)	280	270	315
E8JMR-4A1B03CB00	4/0	0.507 (12.9)	1.022 (25.96)	3	0.110 (2.79)	2.665 (67.7)	4475 (6659)	320	305	360
E8JMR-A11B03CB00	250	0.552 (14.0)	1.068 (27.13)	2	0.110 (2.79)	2.824 (71.7)	5168 (7690)	350	335	400
E8JMR-A31B03CB00	350	0.654 (16.6)	1.171 (29.74)	2	0.140 (3.55)	3.045 (77.3)	6289 (9359)	430	400	490
E8JMR-A61B03CB00	500	0.781 (19.8)	1.299 (32.99)	1	0.140 (3.55)	3.320 (84.3)	8102 (12057)	525	485	600
E8JMR-B21B03CB00	750	0.958 (24.3)	1.478 (37.50)	1/0	0.140 (3.55)	3.610 (91.7)	10978 (16337)	635	585	745

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs are available upon request.

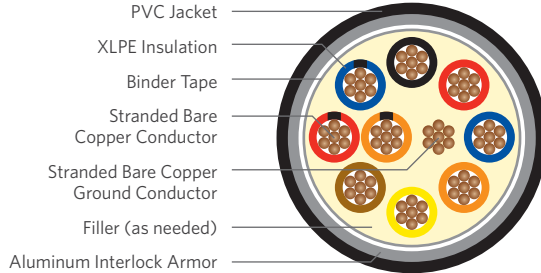
²Ampacities are in accordance with NEC table 310.60(C)(75), Type MV-10S, 5001-35000 Volts, for tray or conduit in air.

³Ampacities are in accordance with NEC table 310.60(C)(79), Type MV-10S, 5001-35000 Volts s, for underground duct, one circuit.

⁴Ampacities are in accordance with NEC table 310.60(C)(71), Type MV-10S, 5001-35000 Volts, for in air (tray).

XLPE/AIA/PVC, 600V Control, Type MC

Series E2BFP



PRODUCT DESCRIPTION

The XLPE/AIA/PVC, 600V Control Type MC Cables consist of copper conductors, insulated with cross-linked polyethylene (XLPE), a bare ground, covered with a binder tape, aluminum interlock armored (AIA) and a PVC jacket.

APPLICATIONS

- For commercial, industrial and utility applications
- For wet or dry locations
- In free air, raceways, and direct burial
- Approved for Class I, Div. 2, Class II Div. 2, and Class III Div. 1, industrial hazardous locations per NEC

FEATURES

- Rated at 90°C wet or dry locations
- Excellent sunlight resistance
- Meets cold bend test at -25°C
- Low dielectric loss
- Flame Compliances
 - UL® 1581
 - CSA FT4/IEEE 1202

MARKETS



SPECIFICATIONS

Conductor Count	Available in 2 through 37 conductors
Conductor	Fully annealed, bare copper Class B compressed strand
Gauge Sizes	Available in 14 AWG through 10 AWG
Insulation	Cross-linked Polyethylene (XLPE) All gauges are type XHHW-2
Color Coding	Per ICEA S-58-679 Method 1 (Table E-1 or E-2); additional color coding options available
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated, fully annealed, bare copper Class B compressed strand
Armor	Aluminum interlock armored (AIA)
Jacket	Polyvinyl chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG CU XX/C WITH GND XHHW-2 PVC JKT 600V 90C WET OR DRY AIA TYPE MC (UL) SUN RES FOR CT USE DIR BUR FT4/ IEEE 1202 MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B-8 UL 44, UL 1569, UL 1581, UL 1685 (flame exposure test) CSA FT4/IEEE 1202 (flame compliance) ICEA S-95-658 / WC 70
Other Compliances	RoHS-compliant/RoHS 2-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Armor	Jacket
Cu	B	600V	XLPE	AIA	PVC

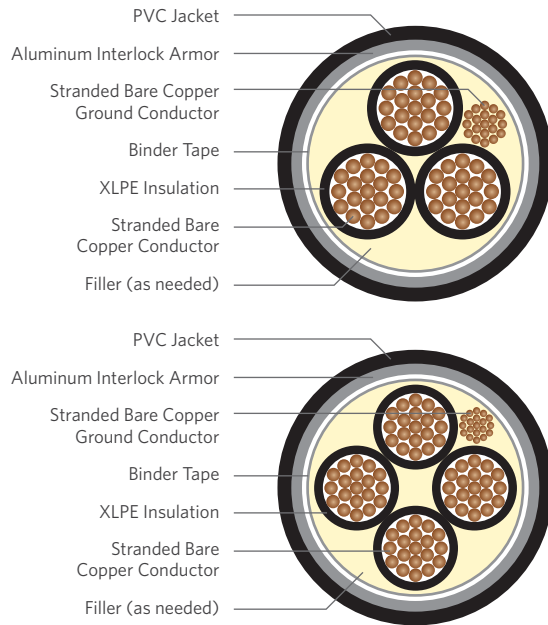
PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Count	Conductor Size AWG	Ground Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Diameter Under the Armor ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E2BFP-141B02CB00	2	14	14	0.030 (0.76)	0.288 (7.3)	0.060 (1.52)	0.581 (14.7)	160 (238)
E2BFP-141B03CB00	3	14	14	0.030 (0.76)	0.309 (7.9)	0.060 (1.52)	0.625 (15.9)	180 (268)
E2BFP-141B04CB00	4	14	14	0.030 (0.76)	0.345 (8.8)	0.060 (1.52)	0.665 (16.9)	210 (313)
E2BFP-141B05CB00	5	14	14	0.030 (0.76)	0.384 (9.7)	0.060 (1.52)	0.695 (17.7)	230 (342)
E2BFP-141B07CB00	7	14	14	0.030 (0.76)	0.425 (10.8)	0.060 (1.52)	0.751 (19.1)	275 (409)
E2BFP-141B09CB00	9	14	14	0.030 (0.76)	0.524 (13.3)	0.060 (1.52)	0.821 (20.8)	330 (491)
E2BFP-141B12CB00	12	14	14	0.030 (0.76)	0.587 (14.9)	0.060 (1.52)	0.895 (22.7)	400 (595)
E2BFP-141B19CB00	19	14	14	0.030 (0.76)	0.702 (17.8)	0.060 (1.52)	0.951 (24.1)	550 (819)
E2BFP-141B25CB00	25	14	14	0.030 (0.76)	0.905 (23.1)	0.060 (1.52)	1.155 (29.3)	730 (1086)
E2BFP-141B37CB00	37	14	14	0.030 (0.76)	0.651 (24.9)	0.060 (1.52)	1.301 (33.1)	980 (1458)
E2BFP-121B02CB00	2	12	12	0.030 (0.76)	0.326 (8.3)	0.060 (1.52)	0.602 (15.3)	196 (292)
E2BFP-121B03CB00	3	12	12	0.030 (0.76)	0.351 (8.9)	0.060 (1.52)	0.612 (15.5)	226 (336)
E2BFP-121B04CB00	4	12	12	0.030 (0.76)	0.391 (9.9)	0.060 (1.52)	0.654 (16.6)	246 (366)
E2BFP-121B05CB00	5	12	12	0.030 (0.76)	0.435 (11.1)	0.060 (1.52)	0.706 (17.9)	302 (449)
E2BFP-121B07CB00	7	12	12	0.030 (0.76)	0.486 (12.3)	0.060 (1.52)	0.743 (18.9)	362 (539)
E2BFP-121B09CB00	9	12	12	0.030 (0.76)	0.594 (15.1)	0.060 (1.52)	0.891 (22.6)	458 (682)
E2BFP-121B12CB00	12	12	12	0.030 (0.76)	0.665 (16.9)	0.060 (1.52)	0.935 (23.7)	545 (811)
E2BFP-121B19CB00	19	12	12	0.030 (0.76)	0.801 (20.3)	0.060 (1.52)	1.081 (27.4)	779 (1159)
E2BFP-121B25CB00	25	12	12	0.030 (0.76)	0.981 (24.9)	0.060 (1.52)	1.301 (33.1)	1040 (1548)
E2BFP-121B37CB00	37	12	12	0.030 (0.76)	1.111 (28.2)	0.060 (1.52)	1.498 (38.1)	1430 (2128)
E2BFP-101B02CB00	2	10	10	0.030 (0.76)	0.373 (9.5)	0.060 (1.52)	0.658 (16.7)	240 (357)
E2BFP-101B03CB00	3	10	10	0.030 (0.76)	0.401 (10.2)	0.060 (1.52)	0.721 (18.3)	312 (464)
E2BFP-101B04CB00	4	10	10	0.030 (0.76)	0.451 (11.5)	0.060 (1.52)	0.731 (18.5)	343 (510)
E2BFP-101B05CB00	5	10	10	0.030 (0.76)	0.563 (14.3)	0.060 (1.52)	0.855 (21.7)	423 (630)
E2BFP-101B07CB00	7	10	10	0.030 (0.76)	0.616 (15.6)	0.060 (1.52)	0.882 (22.4)	509 (757)
E2BFP-101B09CB00	9	10	10	0.030 (0.76)	0.741 (18.8)	0.060 (1.52)	1.021 (25.9)	630 (938)
E2BFP-101B12CB00	12	10	10	0.030 (0.76)	0.807 (20.5)	0.060 (1.52)	1.077 (27.4)	758 (1128)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

XLPE/AIA/PVC, 600V Power, Type MC

Series E3BFP



PRODUCT DESCRIPTION

The XLPE/AIA/PVC, 600V Power Type MC Cables consist of copper conductors, insulated with cross-linked polyethylene (XLPE), a bare ground, covered with a binder tape, aluminum interlock armored (AIA), and PVC jacket.

APPLICATIONS

- For commercial, industrial and utility applications
- For wet or dry locations
- In free air, raceways, and direct burial
- Approved for Class I, Div. 2, Class II Div. 2, and Class III Div. 1, industrial hazardous locations per NEC

FEATURES

- Rated at 90°C wet or dry locations
- Excellent sunlight resistance
- Meets cold bend test at -25°C
- Low dielectric loss
- Flame Compliances
 - UL® 1581
 - CSA FT4/IEEE 1202

MARKETS



SPECIFICATIONS

Conductor Count	Available in 3 or 4 conductors
Conductor	Fully annealed, bare copper Class B compressed strand
Gauge Sizes	Available in 8 AWG through 750 kcmil
Insulation	Cross-linked Polyethylene (XLPE) All gauges are type XHHW-2
Color Coding	Per ICEA S-58-679 Method 4; additional color coding options available
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated, fully annealed, bare copper Class B compressed strand
Aarmor	Aluminum interlock armored (AIA)
Jacket	Polyvinyl chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (KCMIL) CU X/C WITH GND XHHW-2 PVC JKT 600V 90C WET OR DRY AIA TYPE MC (UL) SUN RES FOR CT USE DIR BUR FT4/IEEE 1202 MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B-8, ASTM B-787 UL 44, UL 1569, UL 1581, UL 1685 (flame exposure test) CSA FT4/IEEE 1202 (flame compliance) ICEA S-95-658 / WC 70
Other Compliances	RoHS-compliant/RoHS 2-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Aarmor	Jacket
Cu	B	600V	XLPE	AIA	PVC

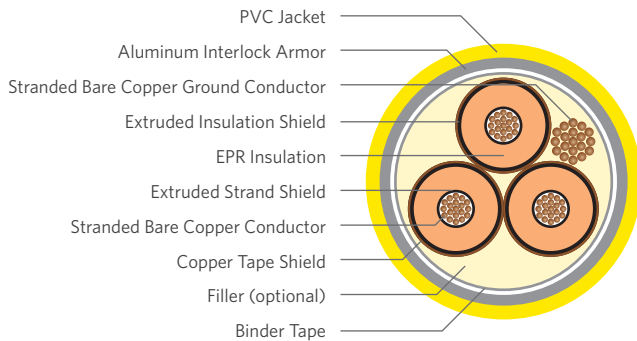
PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Count	Conductor Size AWG/kcmil	Ground Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Diameter Under the Armor ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E3BFP-081M03CE00	3	8	10	0.045 (1.14)	0.538 (13.7)	0.050 (1.27)	0.821 (20.9)	420 (625)
E3BFP-081M04CE00	4	8	10	0.045 (1.14)	0.601 (15.3)	0.050 (1.27)	0.871 (22.1)	507 (755)
E3BFP-061B03CE00	3	6	8	0.045 (1.14)	0.615 (15.6)	0.050 (1.27)	0.896 (22.8)	567 (844)
E3BFP-061B04CE00	4	6	8	0.045 (1.14)	0.688 (17.5)	0.050 (1.27)	0.956 (24.3)	670 (997)
E3BFP-041B03CE00	3	4	8	0.045 (1.14)	0.721 (18.3)	0.050 (1.27)	0.995 (25.27)	757 (1127)
E3BFP-041B04CE00	4	4	8	0.045 (1.14)	0.806 (20.5)	0.050 (1.27)	1.068 (27.13)	912 (1357)
E3BFP-021B03CE00	3	2	6	0.045 (1.14)	0.845 (21.5)	0.050 (1.27)	1.118 (28.4)	1075 (1600)
E3BFP-021B04CE00	4	2	6	0.045 (1.14)	0.946 (24.1)	0.050 (1.27)	1.212 (30.8)	1295 (1927)
E3BFP-011B03CE00	3	1	6	0.055 (1.40)	0.976 (24.8)	0.050 (1.27)	1.258 (32.1)	1269 (1889)
E3BFP-011B04CE00	4	1	6	0.055 (1.40)	1.093 (27.8)	0.050 (1.27)	1.368 (34.7)	1596 (2375)
E3BFP-1A1B03CE00	3	1/0	6	0.055 (1.40)	1.062 (27.1)	0.050 (1.27)	1.344 (34.1)	1528 (2274)
E3BFP-1A1B04CE00	4	1/0	6	0.055 (1.40)	1.191 (30.2)	0.050 (1.27)	1.465 (37.2)	1913 (2847)
E3BFP-2A1B03CE00	3	2/0	6	0.055 (1.40)	1.155 (29.3)	0.050 (1.27)	1.437 (36.5)	1860 (2768)
E3BFP-2A1B04CE00	4	2/0	6	0.055 (1.40)	1.294 (32.9)	0.050 (1.27)	1.688 (42.9)	2345 (3490)
E3BFP-3A1B03CE00	3	3/0	4	0.055 (1.40)	1.264 (32.1)	0.050 (1.27)	1.543 (39.2)	2259 (3362)
E3BFP-3A1B04CE00	4	3/0	4	0.055 (1.40)	1.417 (36.1)	0.060 (1.52)	1.807 (45.9)	2878 (4283)
E3BFP-4A1B03CE00	3	4/0	4	0.055 (1.40)	1.379 (35.1)	0.060 (1.52)	1.784 (45.3)	2840 (4226)
E3BFP-4A1B04CE00	4	4/0	4	0.055 (1.40)	1.512 (38.4)	0.060 (1.81)	1.900 (48.3)	3586 (5336)
E3BFP-A11B03CE00	3	250	4	0.065 (1.65)	1.501 (38.1)	0.060 (1.81)	1.931 (49.0)	3275 (4878)
E3BFP-A11B04CE00	4	250	4	0.065 (1.65)	1.676 (42.6)	0.060 (1.81)	2.106 (53.5)	4194 (6240)
E3BFP-A31B03CE00	3	350	3	0.065 (1.65)	1.723 (43.8)	0.060 (1.81)	2.153 (54.7)	4396 (6542)
E3BFP-A31B04CE00	4	350	3	0.065 (1.65)	1.925 (48.9)	0.060 (1.81)	2.355 (59.8)	5646 (8401)
E3BFP-A61B03CE00	3	500	2	0.065 (1.65)	2.002 (50.8)	0.060 (1.81)	2.462 (62.5)	6104 (9083)
E3BFP-A61B04CE00	4	500	2	0.065 (1.65)	2.240 (56.9)	0.075 (1.91)	2.700 (68.6)	7838 (11662)
E3BFP-B21B03CE00	3	750	1	0.065 (1.65)	2.455 (62.4)	0.075 (1.91)	2.915 (74.0)	8860 (13184)
E3BFP-B21B04CE00	4	750	1	0.065 (1.65)	2.795 (71.0)	0.075 (1.91)	3.240 (82.3)	11494 (17104)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

EPR/CTS/AIA/PVC Power, Type MV-105, 3 Conductor, 5/8kV Yellow

Series E8



PRODUCT DESCRIPTION

The 3 Conductor MV-105 Power Cables consist of fully annealed bare copper Class B stranded conductors, covered with ethylene propylene rubber (EPR), copper tape shield, a binder tape, aluminum interlock armored (AIA), and PVC jacket. These cables are used in industrial power circuits.

APPLICATIONS

- In conduit, duct, free air, direct burial and raceways, primary installations include cable trays, and outdoor locations
- Direct burial
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Designed to operate continuously at a conductor temperature not exceeding
 - » 105°C for normal operations
 - » 140°C for emergency overload
 - » 250°C for short circuit

FEATURES

- Rated at 105°C wet or dry
- Excellent corona resistance
- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- For CT USE per UL® 1072
- Meets cold bend test at -35°C

MARKETS



SPECIFICATIONS

Conductor Count	3 conductor
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 2 AWG through 500 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Phase Identification	Color ribbons in each phase (standard: black-red-blue)
Shield	5 mil annealed copper tape helically applied with a 25% overlap
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated bare copper ground
A armor	Aluminum interlock armored (AIA)
Jacket	Polyvinyl chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (or XXXKCMIL) 3/C XXKV XXX% INSUL LEVEL XXXMILS EPR/PVC JKT TYPE MV-105 FOR CT USE (UL) SUN RES DIR BUR MADE IN USA MMDDYYYY
Packaging	Non-returnable reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8 UL 1072 UL 1685 (flame exposure test) ICEA S-93-639/NEMA WC74 ICEA S-97-682 AIEC CS8 CSA FT4/IEEE 1202 (flame compliance) NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation (CCV)	Shield	A armor	Jacket
Cu	B	MV	EPR	Copper Tape	AIA	PVC

5kV 133%/8kV 100% I.L., 115-mils, Shielded, Type MC Series E8FLP

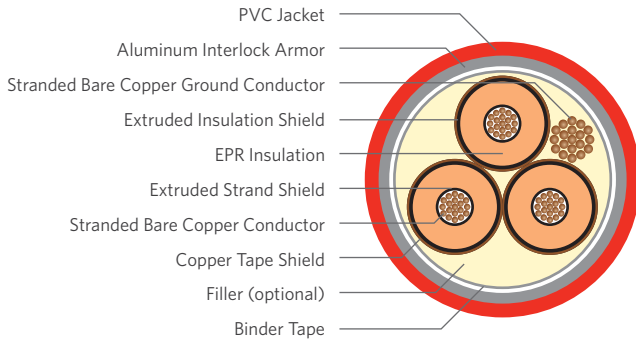
PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Ground Wire AWG	Nominal Overall Diameter Over the Armor ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E8FLP-021B03C8Y0	2	0.280 (7.1)	0.563 (14.31)	6	1.64 (41.6)	60 (1.52)	1.77 (44.9)	1,819 (2,708)
E8FLP-1A1B03C8Y0	1/0	0.358 (9.1)	0.642 (16.31)	4	1.79 (45.3)	60 (1.52)	1.92 (48.6)	2,364 (3,520)
E8FLP-2A1B03C8Y0	2/0	0.401 (10.2)	0.685 (17.41)	4	1.87 (47.5)	60 (1.52)	2.00 (48.6)	2,696 (4,014)
E8FLP-4A1B03C8Y0	4/0	0.507 (12.9)	0.792 (20.12)	3	2.09 (53.2)	60 (1.52)	2.22 (56.5)	3,687 (5,490)
E8FLP-A11B03C8Y0	250	0.552 (14.0)	0.838 (21.29)	2	2.21 (56.0)	60 (1.52)	2.34 (59.3)	4,165 (6,202)
E8FLP-A31B03C8Y0	350	0.654 (16.6)	0.941 (23.91)	2	2.41 (61.3)	80 (2.03)	2.57 (65.4)	5,436 (8,094)
E8FLP-A61B03C8Y0	500	0.781 (19.8)	1.069 (27.15)	1	2.64 (67.0)	80 (2.03)	2.84 (72.0)	7,170 (10,676)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

EPR/CTS/AIA/PVC Power, Type MV-105, 3 Conductor, 15kV Red

Series E8



PRODUCT DESCRIPTION

The 3 Conductor MV-105 Power Cables consist of fully annealed bare copper Class B stranded conductors, covered with ethylene propylene rubber (EPR), copper tape shield, a binder tape, aluminum interlock armored (AIA), and PVC jacket. These cables are used in industrial power circuits.

APPLICATIONS

- In conduit, duct, free air, direct burial and raceways, primary installations include cable trays, and outdoor locations
- Direct burial
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- Designed to operate continuously at a conductor temperature not exceeding
 - 105°C for normal operations
 - 140°C for emergency overload
 - 250°C for short circuit

FEATURES

- Rated at 105°C wet or dry
- Excellent corona resistance
- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- For CT USE per UL® 1072
- Meets cold bend test at -35°C

MARKETS



SPECIFICATIONS

Conductor Count	3 conductor
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 2 AWG through 500 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Phase Identification	Color ribbons in each phase (standard: black-red-blue)
Shield	5 mil annealed copper tape helically applied with a 25% overlap
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated bare copper ground
A armor	Aluminum interlock armored (AIA)
Jacket	Polyvinyl chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (or XXXKCMIL) 3/C XXKV XXX% INSUL LEVEL XXXMILS EPR/PVC JKT TYPE MV-105 FOR CT USE (UL) SUN RES DIR BUR MADE IN USA MMDDYYYY
Packaging	Non-returnable reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8 UL 1072 UL 1685 (flame exposure test) ICEA S-93-639/NEMA WC74 ICEA S-97-682 AIEC CS8 CSA FT4/IEEE 1202 (flame compliance) NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation (CCV)	Shield	A armor	Jacket
Cu	B	MV	EPR	Copper Tape	AIA	PVC

15kV 133% I.L., 220-mils, Shielded, Type MC Series E8JLP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Ground Wire AWG	Nominal Overall Diameter Over the Armor ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E8JLP-021B03CBRO	2	0.280 (7.1)	0.793 (20.14)	6	2.08 (52.8)	60 (1.52)	2.21 (56.1)	2,416 (3,597)
E8JLP-1A1B03CBRO	1/0	0.358 (9.1)	0.872 (22.15)	4	2.22 (56.5)	60 (1.52)	2.35 (59.8)	2,997 (4,463)
E8JLP-2A1B03CBRO	2/0	0.401 (10.2)	0.915 (23.24)	4	2.31 (58.7)	60 (1.52)	2.44 (62.0)	3,371 (5,019)
E8JLP-4A1B03CBRO	4/0	0.507 (12.9)	1.022 (25.96)	3	2.53 (64.3)	60 (1.52)	2.70 (68.5)	4,502 (6,703)
E8JLP-A11B03CBRO	250	0.552 (14.0)	1.068 (27.13)	2	2.65 (67.2)	60 (1.52)	2.81 (71.3)	5,005 (7,452)
E8JLP-A31B03CBRO	350	0.654 (16.6)	1.171 (29.74)	2	2.85 (72.4)	80 (2.03)	3.01 (76.6)	6,252 (9,309)
E8JLP-A61B03CBRO	500	0.781 (19.8)	1.299 (32.99)	1	3.11 (79.0)	80 (2.03)	3.30 (83.7)	8,094 (12,047)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

Utility
Power Distribution



Renewables
Wind



Renewables
Solar



RENEWABLES



Photovoltaic Wire XLPE, Type PV, 600V Series E5A.....	B-4
Photovoltaic Wire XLPE, Type PV, 2000V Series E5A.....	B-5

LV CONTROL



PE/PVC/PVC, 600V Control (20/10) Series E2BD	B-6
Unshielded Series E2BDA	B-7

LV SECONDARY UD



XLPE, Single 600V Power, UL Type USE-2, Secondary UD Series E9BBA	B-8
XLPE, Duplex 600V Power, UL Type USE-2, Secondary UD Series E9BBA	B-10
XLPE, Triplex 600V Power, UL Type USE-2, Secondary UD Series E9BBA	B-12
XLPE, Quadruplex 600V Power, UL Type USE-2, Secondary UD Series E9BBA	B-14
XLPE, Single 600V Power, UL Type USE-2, Secondary UD Series E9BBB with AA-8000 Series Aluminum (Compressed)	B-16
XLPE, Duplex 600V Power, UL Type USE-2, Secondary UD Series E9BBB with AA-8000 Series Aluminum (Compressed)	B-18
XLPE, Triplex 600V Power, UL Type USE-2, Secondary UD Series E9BBB with AA-8000 Series Aluminum (Compressed)	B-20
XLPE, Quadruplex 600V Power, UL Type USE-2, Secondary UD Series E9BBB with AA-8000 Series Aluminum (Compressed)	B-22

MV PRIMARY UD



TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV Series E9 (Aluminum Conductors)	B-24
Aluminum Filled, 15kV 100% I.L., 175-mils Series E9HK	B-27
Aluminum Filled, 15kV 133% I.L., 220-mils Series E9JK	B-27
Aluminum Filled, 25kV 100% I.L., 260-mils Series E9KK	B-28
Aluminum Filled, 35kV 100% I.L., 345-mils Series E9MK	B-28
Aluminum Unfilled, 15kV 100% I.L., 175-mils Series E9HK	B-25
Aluminum Unfilled, 15kV 133% I.L., 220-mils Series E9JK	B-25
Aluminum Unfilled, 25kV 100% I.L., 260-mils Series E9KK	B-26
Aluminum Unfilled, 35kV 100% I.L., 345-mils Series E9MK	B-26
TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV Series E9 (Aluminum Solid Conductor)	B-30
Aluminum Solid, 15kV 133% I.L., 220-mils Series E9JK	B-31
Aluminum Solid, 25kV 100% I.L., 260-mils Series E9KK	B-31
TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV Series E9 (Copper Conductors)	B-32
Copper Unfilled, 15kV 100% I.L., 175-mils Series E9HK	B-33
Copper Unfilled, 15kV 133% I.L., 220-mils Series E9JK	B-33
Copper Unfilled, 25kV 100% I.L., 260-mils Series E9KK	B-34
Copper Unfilled, 35kV 100% I.L., 345-mils Series E9MK	B-34
EPR/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV Series E9 (Aluminum Conductors)	B-38
Aluminum Unfilled, 15kV 133% I.L., 220-mils Series E9JP	B-39
Aluminum Unfilled, 25kV 100% I.L., 260-mils Series E9KP	B-39
Aluminum Unfilled, 35kV 100% I.L., 345-mils Series E9MP	B-40

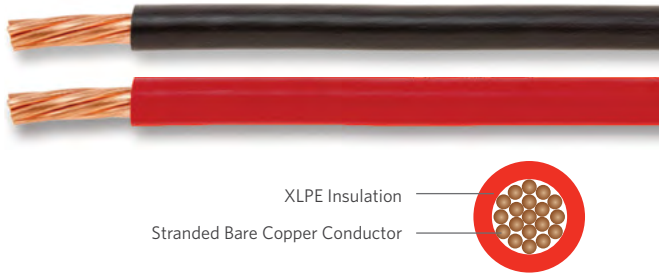
MV PRIMARY UD (CONTINUED)



EPR/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV Series E9 (Aluminum Solid Conductor)	B-42
Aluminum Solid, 15kV 133% I.L., 220-mils Series E9JPT	B-43
Aluminum Solid, 25kV 100% I.L., 260-mils Series E9KPT	B-43
EPR/CN/LLDPE Power, Type MV-90 Primary UD, 15kV-35kV Series E9 (Copper Conductors)	B-44
Copper Unfilled, 15kV 100% I.L., 175-mils Series E9HP	B-45
Copper Unfilled, 15kV 133% I.L., 220-mils Series E9JP	B-45
Copper Unfilled, 25kV 100% I.L., 260-mils Series E9KP	B-46
Copper Unfilled, 35kV 100% I.L., 345-mils Series E9MP	B-46

Photovoltaic Wire XLPE, Type PV, 600V

Series E5A



SPECIFICATIONS

Conductor Count	Single conductor
Conductor	Soft drawn bare copper, Class B stranding
AWG	Copper: Available in 14 AWG through 750 kcmil
Insulation	Cross-linked Polyethylene (XLPE) All gauges are type 600V PV/USE-2 or 1000V CSA RPVU90 or 2000V RHH/RHW-2
Color Coding	Black, Red, Green (other colors available upon request)
Marking	00000FT SUPERIOR ESSEX XXAWG (KCMIL) 600V PV WIRE OR 2000V RHH OR RHW-2 OR 600V USE-2 90C DRY AND WET DIR BUR SUN RES (UL) -40C VW-1 (CSA) RPVU90 1000V MADE IN USA YYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B8 UL® 44 UL 854 UL 4703 CSA C22.2 No. 271 ICEA S-95-658 / NEMA WC70 UL 1581 (flame compliance) CSA FT4/IEEE 1202 (flame compliance)
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

The XLPE, Photovoltaic Wire, 600V, consist of a fully annealed bare copper, Class B stranded conductor, covered with an abrasion, moisture, heat and sunlight resistant, flame retardant Cross-linked polyethylene.

APPLICATIONS

- Primarily used for interconnection wiring of grounded or ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

FEATURES

- Rated 90°C wet and dry
- Rated for direct burial
- Excellent moisture resistance
- Sunlight resistant

MARKETS



PRODUCT KEY

Conductor	Stranding	Voltage	Insulation
Cu	B	600V	XLPE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Stranding ³ (# of wires)	Nominal Insulation Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E5AAA-1BAx009900	14	7	0.060 (1.52)	0.194 (4.93)	27 (40)
E5AAB-1BAx009900	12	7	0.060 (1.52)	0.214 (5.43)	36 (54)
E5AAC-1BAx009900	10	7	0.060 (1.52)	0.238 (6.04)	51 (76)
E5AAD-1MAx009900	8 ²	19	0.080 (2.02)	0.313 (7.95)	88 (131)
E5AAE-1BAx009900	6	7	0.080 (2.02)	0.356 (9.04)	126 (186)
E5AAF-1BAx009900	4	7	0.080 (2.02)	0.405 (10.29)	183 (272)
E5AAG-1BAx009900	2	7	0.080 (2.02)	0.466 (11.84)	269 (401)
E5AAH-1BAx009900	1	19	0.095 (2.41)	0.515 (13.08)	333 (495)
E5AAJ-1BAx009900	1/0	19	0.095 (2.41)	0.563 (14.30)	410 (610)
E5AAK-1BAx009900	2/0	19	0.095 (2.41)	0.608 (15.44)	502 (747)
E5AAL-1BAx009900	3/0	19	0.095 (2.41)	0.658 (16.71)	620 (922)
E5AAM-1BAx009900	4/0	19	0.095 (2.41)	0.714 (18.13)	767 (1141)
E5AAN-1BAx009900	250	37	0.110 (2.79)	0.784 (19.91)	923 (1374)
E5AAQ-1BAx009900	350	37	0.110 (2.79)	0.887 (22.53)	1240 (1845)
E5AAS-1BAx009900	500	37	0.110 (2.79)	1.015 (25.78)	1718 (2557)
E5AAU-1BAx009900	750	37	0.125 (3.18)	1.224 (31.09)	2597 (3865)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

² 8AWG, Combination Unilay-Stranded, Per ASTM B787

³ 14AWG through 750kcmil, Reverse Concentric Compressed Class B, ASTM B8
UL is a registered trademark of UL LLC.

JACKET COLORS

“Replace “x” with: Black = 0 Brown = 1 Red = 2 Orange = 3 Yellow = 4 Green = 5 Blue = 6 Purple = 7 Gray = 8 White = 9

⁴“X” in the part number is to be substituted based on the color of the insulation (e.g., 0=Black, 1=Brown, 2=Red, 3=Orange, 4=Yellow, 5=Green, 6=Blue, 7=Purple, 8=Gray and 9 = White)

Photovoltaic Wire XLPE, Type PV, 2000V

Series E5A

PRODUCT DESCRIPTION

The XLPE, Photovoltaic Wire, 2000V, consist of a fully annealed bare copper, Class B stranded conductor, covered with an abrasion, moisture, heat and sunlight resistant, flame retardant Cross-linked polyethylene..

APPLICATIONS

- Primarily used for interconnection wiring of grounded or ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

FEATURES

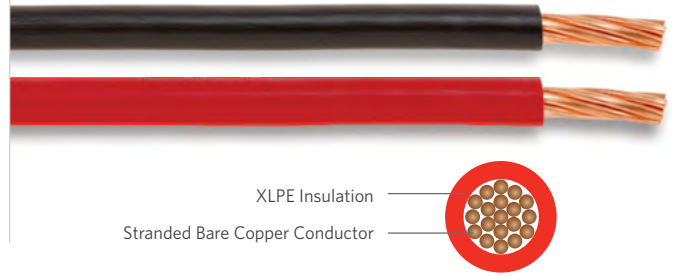
- Rated 90°C wet and dry
- Rated for direct burial
- Excellent moisture resistance
- Sunlight resistant

MARKETS



PRODUCT KEY

Conductor	Stranding	Voltage	Insulation
Cu	B	2000V	XLPE



SPECIFICATIONS

Conductor Count	Single conductor
Conductor	Soft drawn bare copper, Class B stranding
AWG	Copper: Available in 14 AWG through 750 kcmil
Insulation	Cross-linked Polyethylene (XLPE) All gauges are type 600V PV/USE-2 or 1000V CSA RPVU90 or 2000V RHH/RHW-2
Color Coding	Black, Red, Green (other colors available upon request)
Marking	0000FT SUPERIOR ESSEX XXAWG (KCMIL) 2000V PV WIRE RHH OR RHW-2 OR 600V USE-2 90C DRY AND WET DIR BUR SUN RES (UL) -40C VW-1 (CSA) RPVU90 1000V MADE IN USA YYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B8 UL® 44 UL 854 UL 4703 CSA C22.2 No. 271 ICEA S-95-658 / NEMA WC70 UL 1581 (flame compliance) CSA FT4/IEEE 1202 (flame compliance)
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS 2-compliant REACH-compliant

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Stranding ² (# of wires)	Nominal Insulation Thickness in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E5ABS-1BAx009900	14	7	0.075 (1.90)	0.224 (5.69)	32 (48)
E5ABT-1BAx009900	12	7	0.075 (1.90)	0.244 (6.20)	42 (62)
E5ABU-1BAx009900	10	7	0.075 (1.90)	0.268 (6.81)	57 (85)
E5ABV-1MAx009900	8 ²	19	0.085 (2.16)	0.326 (8.28)	87 (129)
E5ABW-1BAx009900	6	7	0.085 (2.16)	0.363 (9.22)	123 (183)
E5ABX-1BAx009900	4	7	0.085 (2.16)	0.406 (10.31)	181 (269)
E5ABY-1BAx009900	2	7	0.085 (2.16)	0.474 (12.04)	266 (396)
E5ABZ-1BAx009900	1	19	0.105 (2.67)	0.538 (13.66)	350 (521)
E5ACA-1BAx009900	1/0	19	0.105 (2.67)	0.586 (14.88)	429 (638)
E5ACB-1BAx009900	2/0	19	0.105 (2.67)	0.631 (16.03)	527 (784)
E5ACC-1BAx009900	3/0	19	0.105 (2.67)	0.674 (17.12)	647 (963)
E5ACD-1BAx009900	4/0	19	0.105 (2.67)	0.737 (18.72)	796 (1,184)
E5ACE-1BAx009900	250	37	0.120 (3.05)	0.804 (20.42)	938 (1,396)
E5ACG-1BAx009900	350	37	0.120 (3.05)	0.907 (23.04)	1,257 (1,870)
E5ACJ-1BAx009900	500	37	0.120 (3.05)	1.035 (26.29)	1737 (2,585)
E5ACL-1BAx009900	750	37	0.135 (3.43)	1.244 (31.60)	2620 (3,900)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

² 8AWG, Combination Unilay-Stranded, Per ASTM B787

³ 14AWG through 750kcmil, Reverse Concentric Compressed Class B, ASTM B8
UL is a registered trademark of UL LLC.

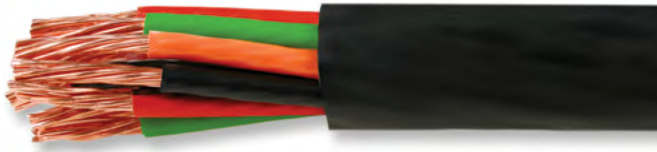
JACKET COLORS

"Replace "x" with:	Black = 0	Brown = 1	Red = 2	Orange = 3	Yellow = 4	Green = 5	Blue = 6	Purple = 7	Gray = 8	White = 9
--------------------	-----------	-----------	---------	------------	------------	-----------	----------	------------	----------	-----------

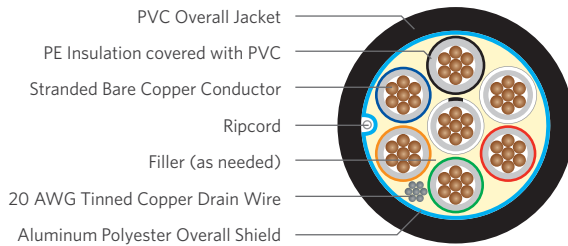
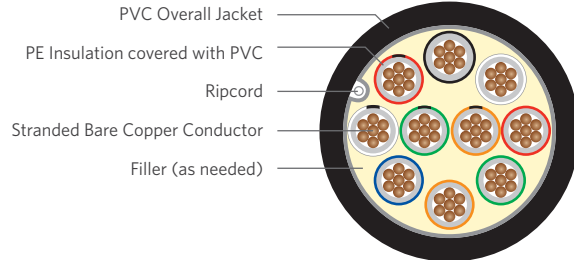
⁴ "X" in the part number is to be substituted based on the color of the insulation (e.g., 0=Black, 1=Brown, 2=Red, 3=Orange, 4=Yellow, 5=Green, 6=Blue, 7=Purple, 8=Gray and 9 = White)

PE/PVC/PVC, 600V Control (20/10)

Series E2BD



Series E2BDA



Series E2BDB

PRODUCT DESCRIPTION

The PE/PVC/PVC, 600V (20/10) Control Cables consist of fully annealed bare copper Class B stranded conductors, covered with natural colored Polyethylene (PE) and colored Polyvinyl Chloride (PVC) insulation and black PVC jacket. These cables are used in industrial power or station control circuits.

APPLICATIONS

- In conduit, duct, free air, raceways and direct burial, primary installations include cable trays, and outdoor locations
- In wet or dry locations
- Approved for Class I, Div. 2 industrial hazardous locations per NEC

FEATURES

- Rated at 75°C wet or dry
- Ripcord (for jackets with thicknesses of 60-mils or less)
- Excellent sunlight resistance
- Cold bend and cold impact resistant
- Smallest OD available for suitable applications

MARKETS



SPECIFICATIONS

Conductor Count	Available in 2 through 37 conductors
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 14 through 10 AWG
Insulation	Polyethylene (PE) with Polyvinyl Chloride (PVC)
Color Coding	Per ICEA S-58-679 Method 1, Table E-1; additional color coding options available
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor (optional)	Insulated or uninsulated ground copper conductor
Shield (optional)	Overall aluminum polyester foil in contact with 20 AWG stranded tinned copper drain wire
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG XX/C PE/PVC/ PVC 600V 75C WET OR DRY (20/10) MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B8 ASTM B33 ICEA S-73-532/NEMA WC 57
Other Compliances	EPA 40 CFR, Part 261 RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding Options	Jacket
Cu	B	600V	PE PVC	NONE or OS Alum Mylar	PVC

Unshielded Series E2BDA

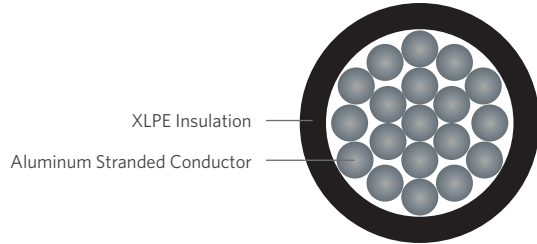
PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Count	Conductor Size AWG	Nominal Insulation Thickness ¹ in (mm)	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)
E2BDA-141B02CA00	2	14	0.030 (0.76)	0.045 (1.14)	0.37 (9.4)	66 (98)
E2BDA-141B03CA00	3	14	0.030 (0.76)	0.045 (1.14)	0.39 (9.9)	87 (130)
E2BDA-141B04CA00	4	14	0.030 (0.76)	0.045 (1.14)	0.42 (10.7)	108 (161)
E2BDA-141B05CA00	5	14	0.030 (0.76)	0.045 (1.14)	0.46 (11.7)	130 (194)
E2BDA-141B07CA00	7	14	0.030 (0.76)	0.045 (1.14)	0.50 (12.7)	173 (258)
E2BDA-141B09CA00	9	14	0.030 (0.76)	0.060 (1.52)	0.62 (15.8)	236 (351)
E2BDA-141B12CA00	12	14	0.030 (0.76)	0.060 (1.52)	0.69 (17.5)	300 (447)
E2BDA-141B19CA00	19	14	0.030 (0.76)	0.060 (1.52)	0.80 (20.3)	443 (659)
E2BDA-121B02CA00	2	12	0.030 (0.76)	0.045 (1.14)	0.40 (10.2)	87 (130)
E2BDA-121B03CA00	3	12	0.030 (0.76)	0.045 (1.14)	0.43 (10.9)	116 (173)
E2BDA-121B04CA00	4	12	0.030 (0.76)	0.045 (1.14)	0.47 (11.9)	147 (219)
E2BDA-121B05CA00	5	12	0.030 (0.76)	0.045 (1.14)	0.52 (13.2)	180 (268)
E2BDA-121B07CA00	7	12	0.030 (0.76)	0.060 (1.52)	0.59 (15.0)	255 (380)
E2BDA-121B09CA00	9	12	0.030 (0.76)	0.060 (1.52)	0.68 (17.3)	321 (478)
E2BDA-121B12CA00	12	12	0.030 (0.76)	0.060 (1.52)	0.77 (19.6)	412 (613)
E2BDA-121B19CA00	19	12	0.030 (0.76)	0.060 (1.52)	0.94 (23.9)	654 (973)
E2BDA-101B02CA00	2	10	0.030 (0.76)	0.045 (1.14)	0.45 (11.4)	130 (194)
E2BDA-101B03CA00	3	10	0.030 (0.76)	0.045 (1.14)	0.48 (12.2)	170 (253)
E2BDA-101B04CA00	4	10	0.030 (0.76)	0.060 (1.52)	0.52 (13.2)	235 (350)
E2BDA-101B05CA00	5	10	0.030 (0.76)	0.060 (1.52)	0.60 (15.2)	286 (426)
E2BDA-101B07CA00	7	10	0.030 (0.76)	0.060 (1.52)	0.66 (16.8)	365 (543)
E2BDA-101B09CA00	9	10	0.030 (0.76)	0.060 (1.52)	0.76 (19.3)	466 (694)
E2BDA-101B12CA00	12	10	0.030 (0.76)	0.060 (1.52)	0.90 (22.9)	626 (932)
E2BDA-101B19CA00	19	10	0.030 (0.76)	0.060 (1.52)	1.05 (26.7)	930 (1,384)

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

XLPE, Single 600V Power, UL Type USE-2, Secondary UD

Series E9BBA



PRODUCT DESCRIPTION

The XLPE, Single 600V Power, Type Secondary UD Cable consists of 1 conductor, Class B stranded aluminum conductors, covered with Cross-linked Polyethylene (XLPE) insulation. These cables are for underground power distribution operated at 600V or less.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strengths
- Low moisture absorption
- Low dielectric loss
- Designed to operate at 90°C in wet or dry locations
- Resistant to abrasion, impact and sunlight

MARKETS



SPECIFICATIONS

Conductor Count	Singles
Conductor	Aluminum 1350-H19 compressed lay stranded Class B
Gauge Sizes	Available in 6 AWG through 1000 kcmil
Insulation	Cross-linked Polyethylene (XLPE)
Phase Identification	Solid black conductor with print string
Phase Conductor Insulation Marking	00000 FT SUPERIOR ESSEX ## AWG (or KCMIL) AL ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B-230 ASTM B-231 UL® 854 ICEA S-105-692
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding
Al	B	600V	XLPE	NONE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

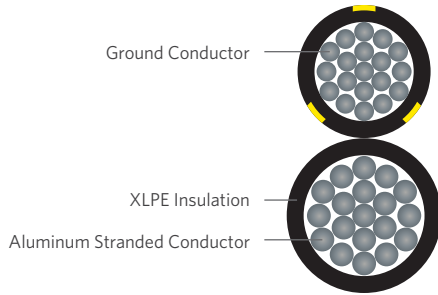
Part Number	Code Word	Conductor Size AWG/kcmil (Number of Wires)	Nominal Insulation Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacities	
						Underground Duct ²	Direct Buried ²
E9BBA-PRINCET00	Princeton	6 (7)	0.060 (1.52)	0.303 (7.7)	44 (64)	60	92
E9BBA-MERCER00	Mercer	4 (7)	0.060 (1.52)	0.348 (8.8)	63 (91)	80	122
E9BBA-CLEMSON00	Clemson	2 (7)	0.060 (1.52)	0.404 (10.3)	92 (133)	107	157
E9BBA-KENYON000	Kenyon	1 (19)	0.080 (2.03)	0.474 (12.0)	120 (174)	123	177
E9BBA-HARVARD00	Harvard	1/0 (19)	0.080 (2.03)	0.514 (13.1)	145 (210)	142	202
E9BBA-YALE00	Yale	2/0 (19)	0.080 (2.03)	0.558 (14.2)	176 (255)	165	227
E9BBA-TUFTS00	Tufts	3/0 (19)	0.080 (2.03)	0.604 (15.3)	214 (310)	190	258
E9BBA-BELOIT00	Beloit	4/0 (19)	0.080 (2.03)	0.663 (16.8)	262 (379)	218	295
E9BBA-HOFSTRA00	Hofstra	250 (37)	0.095 (2.41)	0.747 (19.0)	317 (459)	242	323
E9BBA-GONZAGA00	Gonzaga	300 (37)	0.095 (2.41)	0.782 (19.9)	369 (534)	278	358
E9BBA-RUTGERS00	Rutgers	350 (37)	0.095 (2.41)	0.850 (21.6)	426 (617)	297	388
E9BBA-DARTMOUT00	Dartmouth	400 (37)	0.095 (2.41)	0.900 (22.9)	479 (694)	325	420
E9BBA-EMORY00	Emory	500 (37)	0.095 (2.41)	0.987 (25.1)	584 (846)	365	468
E9BBA-DUKE00	Duke	600 (61)	0.110 (2.79)	1.088 (27.6)	707 (1,024)	415	518
E9BBA-FURMAN00	Furman	700 (61)	0.110 (2.79)	1.158 (29.4)	811 (1,175)	448	560
E9BBA-SEWANEE00	Sewanee	750 (61)	0.110 (2.79)	1.196 (30.4)	864 (1,251)	468	583
E9BBA-FORDHAM00	Fordham	1000 (61)	0.110 (2.79)	1.346 (34.2)	1,122 (1,625)	548	673

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities are based on 90°C Conductor temperature, 20°C ambient, RHO 90, 100% load factor for three conductor triplex with neutral carrying only unbalanced load.

XLPE, Duplex 600V Power, UL Type USE-2, Secondary UD

Series E9BBA



PRODUCT DESCRIPTION

The XLPE, Duplex 600V Power, Type Secondary UD Cable consists of 1 conductor plus 1 ground cabled together to form a Duplex assembly, Class B stranded aluminum conductors, covered with Cross-linked Polyethylene (XLPE) insulation. These cables are for underground power distribution operated at 600V or less.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strengths
- Low moisture absorption
- Low dielectric loss
- Designed to operate at 90°C in wet or dry locations
- Resistant to abrasion, impact and sunlight

MARKETS



SPECIFICATIONS

Conductor Count	Duplex
Conductor	Aluminum 1350 -HI9compressed lay stranded Class B
Gauge Sizes	Available in 6 AWG through 350 kcmil
Insulation	Cross-linked Polyethylene (XLPE)
Phase Identification	Phase conductor is solid black, identified in the print string (PHASE A), and the ground conductor with 3 yellow extruded stripes
Phase Conductor Insulation Marking	SUPERIOR ESSEX ## AWG (or KCMIL) AL ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) PHASE X
Ground Conductor Insulation Marking	00000 FT SUPERIOR ESSEX ## AWG (or KCMIL) AL ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B-230 ASTM B-231 UL® 854 ICEA S-105-692
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding
Al	B	600V	XLPE	NONE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

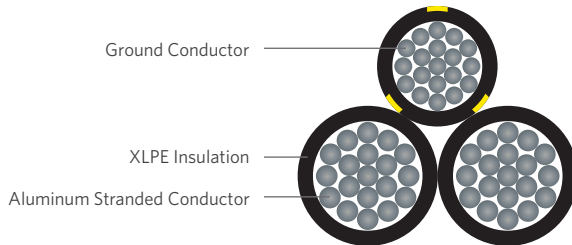
Part Number	Code Word	Conductor		Neutral		Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacities	
		Size AWG/kcmil (Number of Wires)	Nominal Insulation Thickness ¹ in (mm)	Size AWG/kcmil (Stranding)	Nominal Insulation Thickness ¹ in (mm)			Underground Duct ²	Direct Buried ²
E9BBA-CLAFLIN00	Claflin	6 (7)	0.060 (1.52)	6 (7)	0.060 (1.52)	0.605 (15.4)	89 (129)	68	105
E9BBA-DELGAD00	Delgado	4 (7)	0.060 (1.52)	4 (7)	0.060 (1.52)	0.697 (17.7)	127 (184)	88	137
E9BBA-EVERETT00	Everett	2 (7)	0.060 (1.52)	2 (7)	0.060 (1.52)	0.815 (20.7)	185 (268)	118	183
E9BBA-FINDLAY00	Findlay	2/0 (19)	0.080 (2.03)	2/0 (19)	0.080 (2.03)	1.120 (28.4)	353 (511)	180	268
E9BBA-HANOVER00	Hanover	4/0 (19)	0.080 (2.03)	4/0 (19)	0.080 (2.03)	1.325 (33.7)	526 (762)	293	436

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities are based on 90°C Conductor temperature, 20°C ambient, RHO 90, 100% load factor for three conductor triplex with neutral carrying only unbalanced load.

XLPE, Triplex 600V Power, UL Type USE-2, Secondary UD

Series E9BBA



PRODUCT DESCRIPTION

The XLPE, Triplex 600V Power, Type Secondary UD Cable consists of 2 conductors plus 1 ground cabled together to form a Triplex assembly, Class B stranded aluminum conductors, covered with Cross-linked Polyethylene (XLPE) insulation. These cables are for underground power distribution operated at 600V or less.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strengths
- Low moisture absorption
- Low dielectric loss
- Designed to operate at 90°C in wet or dry locations
- Resistant to abrasion, impact and sunlight

MARKETS



SPECIFICATIONS

Conductor Count	Triplex
Conductor	Aluminum 1350-H19 compressed lay stranded Class B
Gauge Sizes	Available in 6 AWG through 750 kcmil
Insulation	Cross-linked Polyethylene (XLPE)
Phase Identification	Phase conductors are solid black, identified in the print string (PHASE A, PHASE B), and the ground conductor with 3 yellow extruded stripes
Phase Conductor Insulation Marking	SUPERIOR ESSEX ## AWG (or KCMIL) AL ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) PHASE X
Ground Conductor Insulation Marking	00000 FT SUPERIOR ESSEX ## AWG (or KCMIL) AL ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B-230 ASTM B-231 UL® 854 ICEA S-105-692
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding
Al	B	600V	XLPE	NONE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

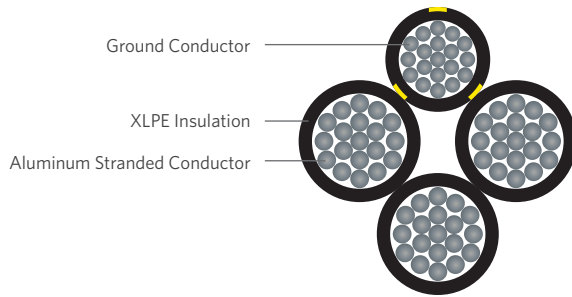
Part Number	Code Word	Conductor		Neutral		Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacities	
		Size AWG/kcmil (Number of Wires)	Nominal Insulation Thickness ¹ in (mm)	Size AWG/kcmil (Stranding)	Nominal Insulation Thickness ¹ in (mm)			Underground Duct ²	Direct Buried ²
E9BBA-ERSKINE00	Erskine	6 (7)	0.060 (1.52)	6 (7)	0.060 (1.52)	0.648 (16.5)	133 (193)	68	105
E9BBA-VASSAR00	Vassar	4 (7)	0.060 (1.52)	4 (7)	0.060 (1.52)	0.748 (19.0)	190 (275)	88	137
E9BBA-STEPHENS00	Stephens	2 (7)	0.060 (1.52)	4 (7)	0.060 (1.52)	0.857 (21.8)	248 (359)	118	177
E9BBA-RAMAP00	Ramapo	2 (7)	0.060 (1.52)	2 (7)	0.060 (1.52)	0.877 (22.3)	277 (401)	118	177
E9BBA-BRENAU00	Brenau	1/0 (19)	0.080 (2.03)	2 (7)	0.060 (2.03)	1.069 (27.1)	384 (556)	158	228
E9BBA-BERGEN00	Bergen	1/0 (19)	0.080 (2.03)	1/0 (19)	0.080 (2.03)	1.109 (28.2)	437 (633)	158	228
E9BBA-CONVERSE00	Converse	2/0 (19)	0.080 (2.03)	1 (19)	0.080 (2.03)	1.173 (29.8)	474 (686)	180	260
E9BBA-HUNTER00	Hunter	2/0 (19)	0.080 (2.03)	2/0 (19)	0.080 (2.03)	1.203 (30.6)	530 (768)	180	260
E9BBA-HOLLINS00	Hollins	3/0 (19)	0.080 (2.03)	1/0 (19)	0.080 (2.03)	1.274 (32.4)	576 (834)	207	297
E9BBA-ROCKLAND00	Rockland	3/0 (19)	0.080 (2.03)	3/0 (19)	0.080 (2.03)	1.304 (33.1)	645 (934)	207	297
E9BBA-SWEETBRIAR00	Sweetbriar	4/0 (19)	0.080 (2.03)	2/0 (19)	0.080 (2.03)	1.384 (35.1)	702 (1,017)	240	337
E9BBA-MONMOUTH00	Monmouth	4/0 (19)	0.080 (2.03)	4/0 (19)	0.080 (2.03)	1.424 (36.2)	789 (1,143)	240	337
E9BBA-PRATT00	Pratt	250 (37)	0.095 (2.41)	3/0 (19)	0.080 (2.03)	1.560 (39.6)	852 (1,234)	265	367
E9BBA-WESLEYAN00	Wesleyan	350 (19)	0.095 (2.41)	4/0 (37)	0.080 (2.03)	1.748 (44.4)	1,111 (1,609)	323	442
E9BBA-RIDER00	Rider	500 (37)	0.095 (2.41)	350 (37)	0.095 (2.41)	2.072 (52.6)	1,596 (2,311)	402	535

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities are based on 90°C Conductor temperature, 20°C ambient, RHO 90, 100% load factor for three conductor triplex with neutral carrying only unbalanced load.

XLPE, Quadruplex 600V Power, UL Type USE-2, Secondary UD

Series E9BBA



PRODUCT DESCRIPTION

The XLPE, Quadruplex 600V Power, Type Secondary UD Cable consists of 3 conductors plus 1 ground cabled together to form a Quadruplex assembly, Class B stranded aluminum conductors, covered with Cross-linked Polyethylene (XLPE) insulation. These cables are for underground power distribution operated at 600V or less.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strengths
- Low moisture absorption
- Low dielectric loss
- Designed to operate at 90°C in wet or dry locations
- Resistant to abrasion, impact and sunlight

MARKETS



SPECIFICATIONS

Conductor Count	Quadruplex
Conductor	Aluminum 1350-H19 compressed lay stranded Class B
Gauge Sizes	Available in 4 AWG through 750 kcmil
Insulation	Cross-linked Polyethylene (XLPE)
Phase Identification	Phase conductors are solid black, identified in the print string (PHASE A, PHASE B, PHASE C), and the ground conductor with 3 yellow extruded stripes
Phase Conductor Insulation Marking	SUPERIOR ESSEX ## AWG (or KCMIL) AL ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) PHASE X
Ground Conductor Insulation Marking	00000 FT SUPERIOR ESSEX ## AWG (or KCMIL) AL ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B-230 ASTM B-231 UL® 854 ICEA S-105-692
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding
Al	B	600V	XLPE	NONE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Code Word	Conductor		Neutral		Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacities	
		Size AWG/kcmil (Number of Wires)	Nominal Insulation Thickness ¹ in (mm)	Size AWG/kcmil (Stranding)	Nominal Insulation Thickness ¹ in (mm)			Underground Duct ²	Direct Buried ²
E9BBA-TULSA00	Tulsa	4 (7)	0.060 (1.52)	4 (7)	0.060 (1.52)	0.841 (21.4)	253 (366)	80	122
E9BBA-DYKE00	Dyke	2 (7)	0.060 (1.52)	4 (7)	0.060 (1.52)	0.961 (24.4)	340 (492)	107	157
E9BBA-WITTENBE00	Wittenberg	2 (7)	0.060 (1.52)	2 (7)	0.060 (1.52)	0.981 (24.9)	369 (534)	107	157
E9BBA-NOTREDAM00	Notre Dame	1/0 (19)	0.080 (2.03)	2 (7)	0.060 (1.52)	1.202 (30.5)	529 (766)	142	202
E9BBA-PURDUE00	Purdue	1/0 (19)	0.080 (2.03)	1/0 (19)	0.080 (2.03)	1.245 (31.6)	583 (844)	142	202
E9BBA-SYRACUSE00	Syracuse	2/0 (19)	0.080 (2.03)	1 (19)	0.080 (2.03)	1.320 (33.5)	651 (943)	165	227
E9BBA-LAFAYETT00	Lafayette	2/0 (19)	0.080 (2.03)	2/0 (19)	0.080 (2.03)	1.350 (34.3)	707 (1,024)	165	227
E9BBA-SWARTHMO0	Swarthmore	3/0 (19)	0.080 (2.03)	1/0 (19)	0.080 (2.03)	1.432 (36.4)	791 (1,146)	190	258
E9BBA-DAVIDSON00	Davidson	3/0 (19)	0.080 (2.03)	3/0 (19)	0.080 (2.03)	1.465 (37.2)	860 (1,246)	190	258
E9BBA-WAKEFORE00	Wake Forest	4/0 (19)	0.080 (2.03)	2/0 (19)	0.080 (2.03)	1.556 (39.5)	965 (1,398)	218	295
E9BBA-EARLHAM00	Earlham	4/0 (19)	0.080 (2.03)	4/0 (19)	0.080 (2.03)	1.599 (40.6)	1,052 (1,524)	218	295
E9BBA-RUST00	Rust	250 (37)	0.095 (2.41)	3/0 (19)	0.080 (2.03)	1.750 (44.5)	1,170 (1,695)	238	325
E9BBA-SLIPPERY00	Slippery Rock	350 (37)	0.095 (2.41)	4/0 (19)	0.080 (2.03)	1.972 (50.1)	1,535 (2,223)	297	388
E9BBA-WOFFORD00	Wofford	500 (37)	0.095 (2.41)	350 (37)	0.095 (2.41)	2.332 (59.2)	2,182 (3,160)	365	468

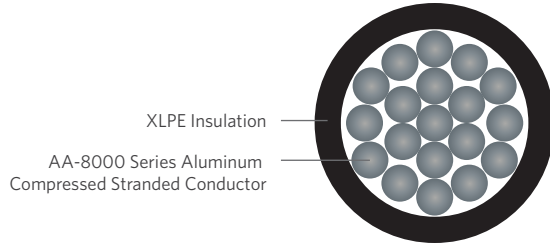
¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities are based on 90°C Conductor temperature, 20°C ambient, RHO 90, 100% load factor for three conductor triplex with neutral carrying only unbalanced load.

³For AL-8000 series aluminum alloy compressed conductor, substitute in the Part Number the "3F" with "4G".

XLPE, Single 600V Power, UL Type USE-2, Secondary UD

Series E9BBB with AA-8000 Series Aluminum (Compressed)



PRODUCT DESCRIPTION

The XLPE, Single 600V Power, Type Secondary UD Cable consists of 1 conductor, Class B stranded AA-8000 Series aluminum conductors, covered with Cross-linked Polyethylene (XLPE) insulation. These cables are for underground power distribution operated at 600V or less.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strengths
- Low moisture absorption
- Low dielectric loss
- Designed to operate at 90°C in wet or dry locations
- Resistant to abrasion, impact and sunlight

MARKETS



SPECIFICATIONS

Conductor Count	Singles
Conductor	Aluminum AA-8000 compressed lay stranded Class B
Gauge Sizes	Available in 6 AWG through 1000 kcmil
Insulation	Cross-linked Polyethylene (XLPE)
Phase Identification	Solid black conductor with print string
Phase Conductor Insulation Marking	00000 FT SUPERIOR ESSEX ## AWG (or KCMIL) AL 8000 ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B-800 ASTM B-801 UL® 854 ICEA S-105-692
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding
Al	B	600V	XLPE	NONE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

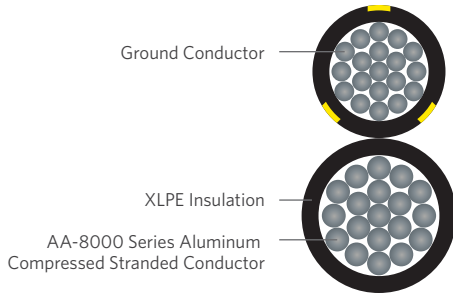
Part Number	Code Word	Conductor Size AWG/kcmil (Number of Wires)	Nominal Insulation Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacities Direct Burial ²	
						75°C	90°C
E9BBB-PRINCET00	Princeton	6 (7)	0.060 (1.52)	0.303 (7.7)	41 (59)	50	55
E9BBB-MERCER00	Mercer	4 (7)	0.060 (1.52)	0.348 (8.8)	61 (88)	65	75
E9BBB-CLEMSON00	Clemson	2 (7)	0.060 (1.52)	0.404 (10.3)	89 (129)	90	100
E9BBB-KENYON000	Kenyon	1 (19)	0.080 (2.03)	0.474 (12.0)	128 (185)	100	115
E9BBB-HARVARD00	Harvard	1/0 (19)	0.080 (2.03)	0.514 (13.1)	145 (210)	120	135
E9BBB-YALE00	Yale	2/0 (19)	0.080 (2.03)	0.558 (14.2)	192 (278)	135	150
E9BBB-TUFTS00	Tufts	3/0 (19)	0.080 (2.03)	0.604 (15.3)	233 (337)	155	175
E9BBB-BELOIT00	Beloit	4/0 (19)	0.080 (2.03)	0.663 (16.8)	258 (373)	180	205
E9BBB-HOFSTRA00	Hofstra	250 (37)	0.095 (2.41)	0.747 (19.0)	312 (451)	205	230
E9BBB-GONZAGA00	Gonzaga	300 (37)	0.095 (2.41)	0.782 (19.9)	362 (523)	230	260
E9BBB-RUTGERS00	Rutgers	350 (37)	0.095 (2.41)	0.850 (21.6)	418 (604)	250	280
E9BBB-DARTMOUT00	Dartmouth	400 (37)	0.095 (2.41)	0.900 (22.9)	470 (679)	270	305
E9BBB-EMORY00	Emory	500 (37)	0.095 (2.41)	0.987 (25.1)	660 (954)	310	350
E9BBB-DUKE00	Duke	600 (61)	0.110 (2.79)	1.088 (27.6)	799 (1155)	340	385
E9BBB-FURMAN00	Furman	700 (61)	0.110 (2.79)	1.158 (29.4)	932 (1347)	375	425
E9BBB-SEWANEE00	Sewanee	750 (61)	0.110 (2.79)	1.196 (30.4)	999 (1444)	385	435
E9BBB-FORDHAM00	Fordham	1000 (61)	0.110 (2.79)	1.346 (34.2)	1099 (1589)	445	500

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacity of conductors are based on the National Electrical Code (NFPA 70) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.

XLPE, Duplex 600V Power, UL Type USE-2, Secondary UD

Series E9BBB with AA-8000 Series Aluminum (Compressed)



PRODUCT DESCRIPTION

The XLPE, Duplex 600V Power, Type Secondary UD Cable consists of 1 conductor plus 1 ground cable together to form a Duplex assembly, Class B stranded aluminum AA-8000 Series conductors, covered with Cross-linked Polyethylene (XLPE) insulation. These cables are for underground power distribution operated at 600V or less.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strengths
- Low moisture absorption
- Low dielectric loss
- Designed to operate at 90°C in wet or dry locations
- Resistant to abrasion, impact and sunlight

MARKETS



SPECIFICATIONS

Conductor Count	Duplex
Conductor	Aluminum AA-8000 compressed lay stranded Class B
Gauge Sizes	Available in 6 AWG through 350 kcmil
Insulation	Cross-linked Polyethylene (XLPE)
Phase Identification	Phase conductor is solid black, identified in the print string (PHASE A), and the ground conductor with 3 yellow extruded stripes
Phase Conductor Insulation Marking	SUPERIOR ESSEX ## AWG (or KCMIL) AL 8000 ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) PHASE X
Ground Conductor Insulation Marking	00000 FT SUPERIOR ESSEX ## AWG (or KCMIL) AL 8000 ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B-800 ASTM B-801 UL® 854 ICEA S-105-692
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding
Al	B	600V	XLPE	NONE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

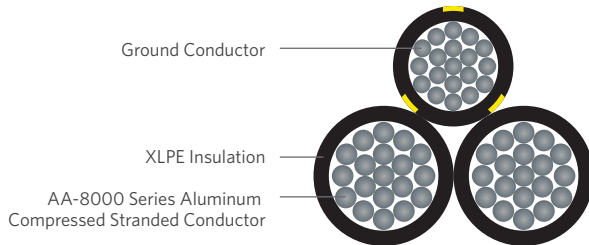
Part Number	Code Word	Conductor		Neutral		Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacities Direct Burial ²	
		Size AWG/kcmil (Number of Wires)	Nominal Insulation Thickness ¹ in (mm)	Size AWG/kcmil (Stranding)	Nominal Insulation Thickness ¹ in (mm)			75°C	90°C
E9BBB-CLAFLIN00	Claflin	6 (7)	0.060 (1.52)	6 (7)	0.060 (1.52)	0.605 (15.4)	87 (126)	50	55
E9BBB-DELGAD00	Delgado	4 (7)	0.060 (1.52)	4 (7)	0.060 (1.52)	0.697 (17.7)	124 (179)	65	75
E9BBB-EVERETT00	Everett	2 (7)	0.060 (1.52)	2 (7)	0.060 (1.52)	0.815 (20.7)	181 (262)	90	100
E9BBB-FINDLAY00	Findlay	2/0 (19)	0.080 (2.03)	2/0 (19)	0.080 (2.03)	1.120 (28.4)	345 (499)	135	150
E9BBB-HANOVER00	Hanover	4/0 (19)	0.080 (2.03)	4/0 (19)	0.080 (2.03)	1.325 (33.7)	514 (743)	180	205

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacity of conductors are based on the National Electrical Code (NFPA 70) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.

XLPE, Triplex 600V Power, UL Type USE-2, Secondary UD

Series E9BBB with AA-8000 Series Aluminum (Compressed)



PRODUCT DESCRIPTION

The XLPE, Triplex 600V Power, Type Secondary UD Cable consists of 2 conductors plus 1 ground cabled together to form a Triplex assembly, Class B stranded AA-8000 Series aluminum conductors, covered with Cross-linked Polyethylene (XLPE) insulation. These cables are for underground power distribution operated at 600V or less.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strengths
- Low moisture absorption
- Low dielectric loss
- Designed to operate at 90°C in wet or dry locations
- Resistant to abrasion, impact and sunlight

MARKETS



SPECIFICATIONS

Conductor Count	Triplex
Conductor	Aluminum AA-8000 compressed lay stranded Class B
Gauge Sizes	Available in 6 AWG through 750 kcmil
Insulation	Cross-linked Polyethylene (XLPE)
Phase Identification	Phase conductors are solid black, identified in the print string (PHASE A, PHASE B), and the ground conductor with 3 yellow extruded stripes
Phase Conductor Insulation Marking	SUPERIOR ESSEX ## AWG (or KCMIL) AL 8000 ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) PHASE X
Ground Conductor Insulation Marking	00000 FT SUPERIOR ESSEX ## AWG (or KCMIL) AL 8000 ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B-800 ASTM B-801 UL® 854 ICEA S-105-692
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding
Al	B	600V	XLPE	NONE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

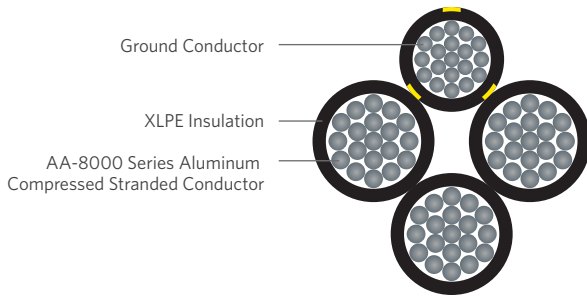
Part Number	Code Word	Conductor		Neutral		Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacities Direct Burial ²	
		Size AWG/kcmil (Number of Wires)	Nominal Insulation Thickness ¹ in (mm)	Size AWG/kcmil (Stranding)	Nominal Insulation Thickness ¹ in (mm)			75°C	90°C
E9BBB-ERSKINE00	Erskine	6 (7)	0.060 (1.52)	6 (7)	0.060 (1.52)	0.648 (16.5)	131 (189)	50	55
E9BBB-VASSAR00	Vassar	4 (7)	0.060 (1.52)	4 (7)	0.060 (1.52)	0.748 (19.0)	185 (267)	65	75
E9BBB-STEPHENS00	Stephens	2 (7)	0.060 (1.52)	4 (7)	0.060 (1.52)	0.857 (21.8)	240 (347)	90	100
E9BBB-RAMAP00	Ramapo	2 (7)	0.060 (1.52)	2 (7)	0.060 (1.52)	0.877 (22.3)	268 (387)	90	100
E9BBB-BRENAU00	Brenau	1/0 (19)	0.080 (2.03)	2 (7)	0.060 (2.03)	1.069 (27.1)	380 (550)	120	135
E9BBB-BERGEN00	Bergen	1/0 (19)	0.080 (2.03)	1/0 (19)	0.080 (2.03)	1.109 (28.2)	479 (693)	120	135
E9BBB-CONVERSE00	Converse	2/0 (19)	0.080 (2.03)	1 (19)	0.080 (2.03)	1.173 (29.8)	521 (754)	135	150
E9BBB-HUNTER00	Hunter	2/0 (19)	0.080 (2.03)	2/0 (19)	0.080 (2.03)	1.203 (30.6)	586 (847)	135	150
E9BBB-HOLLINS00	Hollins	3/0 (19)	0.080 (2.03)	1/0 (19)	0.080 (2.03)	1.274 (32.4)	636 (919)	155	175
E9BBB-ROCKLAND00	Rockland	3/0 (19)	0.080 (2.03)	3/0 (19)	0.080 (2.03)	1.304 (33.1)	714 (1033)	155	175
E9BBB-SWEETBRI00	Sweetbriar	4/0 (19)	0.080 (2.03)	2/0 (19)	0.080 (2.03)	1.384 (35.1)	695 (1005)	180	205
E9BBB-MONMOUTH00	Monmouth	4/0 (19)	0.080 (2.03)	4/0 (19)	0.080 (2.03)	1.424 (36.2)	780 (1127)	180	205
E9BBB-PRATT00	Pratt	250 (37)	0.095 (2.41)	3/0 (19)	0.080 (2.03)	1.560 (39.6)	839 (1212)	230	260
E9BBB-WESLEYAN00	Wesleyan	350 (19)	0.095 (2.41)	4/0 (37)	0.080 (2.03)	1.748 (44.4)	1102 (1593)	250	280
E9BBB-RIDER00	Rider	500 (37)	0.095 (2.41)	350 (37)	0.095 (2.41)	2.072 (52.6)	1573 (2274)	310	350

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacity of conductors are based on the National Electrical Code (NFPA 70) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.

XLPE, Quadruplex 600V Power, UL Type USE-2, Secondary UD

Series E9BBB with AA-8000 Series Aluminum (Compressed)



PRODUCT DESCRIPTION

The XLPE, Quadruplex 600V Power, Type Secondary UD Cable consists of 3 conductors plus 1 ground cabled together to form a Quadruplex assembly, Class B stranded AA-8000 Series aluminum conductors, covered with Cross-linked Polyethylene (XLPE) insulation. These cables are for underground power distribution operated at 600V or less.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strengths
- Low moisture absorption
- Low dielectric loss
- Designed to operate at 90°C in wet or dry locations
- Resistant to abrasion, impact and sunlight

MARKETS



SPECIFICATIONS

Conductor Count	Quadruplex
Conductor	Aluminum AA-8000 compressed lay stranded Class B
Gauge Sizes	Available in 4 AWG through 750 kcmil
Insulation	Cross-linked Polyethylene (XLPE)
Phase Identification	Phase conductors are solid black, identified in the print string (PHASE A, PHASE B, PHASE C), and the ground conductor with 3 yellow extruded stripes
Phase Conductor Insulation Marking	SUPERIOR ESSEX ## AWG (or KCMIL) AL 8000 ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) PHASE X
Ground Conductor Insulation Marking	00000 FT SUPERIOR ESSEX ## AWG (or KCMIL) AL 8000 ## MIL XLPE 600V 90C WET OR DRY TYPE USE-2 (UL) MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliance	ASTM B-800 ASTM B-801 UL® 854 ICEA S-105-692
Other Compliances	EPA 40 CFR, Part 261 OSHA RoHS-compliant/RoHS-compliant REACH-compliant

UL is a registered trademark of UL LLC.

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Shielding
Al	B	600V	XLPE	NONE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

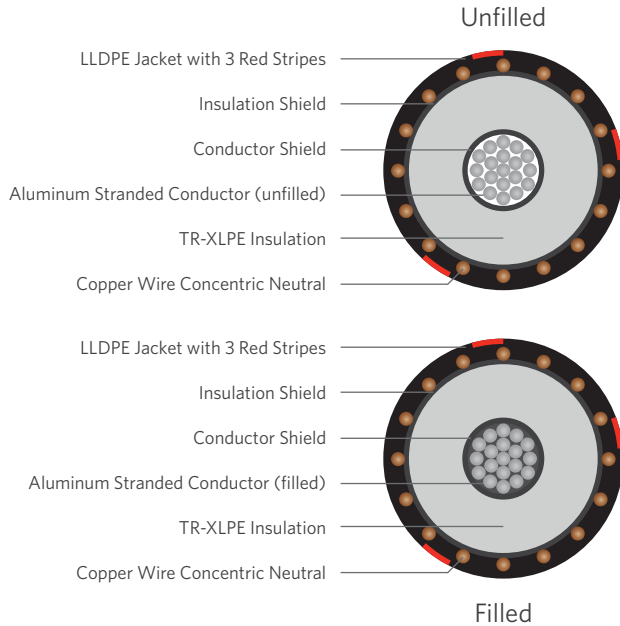
Part Number	Code Word	Conductor		Neutral		Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacities Direct Burial ²	
		Size AWG/kcmil (Number of Wires)	Nominal Insulation Thickness ¹ in (mm)	Size AWG/kcmil (Stranding)	Nominal Insulation Thickness ¹ in (mm)			75°C	90°C
E9BBB-TULSA00	Tulsa	4 (7)	0.060 (1.52)	4 (7)	0.060 (1.52)	0.841 (21.4)	248 (359)	65	75
E9BBB-DYKE00	Dyke	2 (7)	0.060 (1.52)	4 (7)	0.060 (1.52)	0.961 (24.4)	330 (477)	90	100
E9BBB-WITTENBE00	Wittenberg	2 (7)	0.060 (1.52)	2 (7)	0.060 (1.52)	0.981 (24.9)	360 (520)	90	100
E9BBB-NOTREDAM00	Notre Dame	1/0 (19)	0.080 (2.03)	2 (7)	0.060 (1.52)	1.202 (30.5)	527 (762)	120	135
E9BBB-PURDUE00	Purdue	1/0 (19)	0.080 (2.03)	1/0 (19)	0.080 (2.03)	1.245 (31.6)	639 (924)	120	135
E9BBB-SYRACUSE00	Syracuse	2/0 (19)	0.080 (2.03)	1 (19)	0.080 (2.03)	1.320 (33.5)	717 (1037)	135	150
E9BBB-LAFAYETT00	Lafayette	2/0 (19)	0.080 (2.03)	2/0 (19)	0.080 (2.03)	1.350 (34.3)	781 (1129)	135	150
E9BBB-SWARTHMO0	Swarthmore	3/0 (19)	0.080 (2.03)	1/0 (19)	0.080 (2.03)	1.432 (36.4)	874 (1264)	155	175
E9BBB-DAVIDSON00	Davidson	3/0 (19)	0.080 (2.03)	3/0 (19)	0.080 (2.03)	1.465 (37.2)	952 (1376)	155	175
E9BBB-WAKEFORE00	Wake Forest	4/0 (19)	0.080 (2.03)	2/0 (19)	0.080 (2.03)	1.556 (39.5)	957 (1384)	180	205
E9BBB-EARLHAM00	Earlham	4/0 (19)	0.080 (2.03)	4/0 (19)	0.080 (2.03)	1.599 (40.6)	1048 (1515)	180	205
E9BBB-RUST00	Rust	250 (37)	0.095 (2.41)	3/0 (19)	0.080 (2.03)	1.750 (44.5)	1281 (1852)	230	260
E9BBB-SLIPPERY00	Slippery Rock	350 (37)	0.095 (2.41)	4/0 (19)	0.080 (2.03)	1.972 (50.1)	1525 (2205)	250	280
E9BBB-WOFFORD00	Wofford	500 (37)	0.095 (2.41)	350 (37)	0.095 (2.41)	2.332 (59.2)	2461 (3558)	310	350

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacity of conductors are based on the National Electrical Code (NFPA 70) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.

TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV

Series E9 (Aluminum Conductors)



PRODUCT DESCRIPTION

The Medium Voltage Primary Underground Distribution (UD) cables consist of an Aluminum (filled or unfilled) conductor, covered with tree-retardant cross-linked polyethylene (TR-XLPE), a concentric neutral of helically applied copper wires, and a linear low-density polyethylene (LLDPE) jacket with 3 extruded red stripes.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent resistance to treeing
- Jacket is sunlight-resistant
- Designed to operate continuously at a conductor temperature not exceeding
 - » 90°C for normal operations
 - » 130°C for emergency overload
 - » 250°C for short circuit

MARKETS



SPECIFICATIONS

Conductor Count	1 conductor
Conductor	For both unfilled and filled: Available in 2 AWG through 1250 kcmil
Gauge Sizes	Filled: Available in 2 AWG through 1,250 kcmil Unfilled: Available in 2 AWG through 1,250 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor *Super-Smooth available upon request
Insulation	Tree-Retardant Cross-linked Polyethylene (TR-XLPE)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Neutral	Helically applied, annealed, solid bare copper wires
Jacket	Linear Low-Density Polyethylene (LLDPE)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (KCMIL) AL FS 1/C XXXV XXX% INSUL LEVEL XXXMILS TRXLP XXAWG X XX LLDPE JKT TYPE MV-90 (UL) MADE IN USA MMDDYYYY (LIGHTNING BOLT)
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B-3 ASTM B-230 ASTM B-231 ICEA S-94-649 ICEA T-31-610 (water block compliance) AIEC CS8 UL 1072 (MV-90) RUS U1

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Neutral Options	Jacket
Al	Filled B or B	MV	TR XLPE	RCN or FCN	LLDPE

Aluminum Unfilled, 15kV 100% I.L., 175-mils Series E9HK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9HKT-023F01CA00	2	0.280 (7.1)	0.68 (17.3)	6 x 14	0.055 (1.40)	0.98 (24.9)	406 (605)	126	175
E9HKT-013F01CA00	1	0.319 (8.1)	0.72 (18.3)	6 x 14	0.055 (1.40)	1.03 (26.2)	441 (657)	144	199
E9HKT-1A3F01CA00	1/0	0.358 (9.1)	0.76 (19.3)	6 x 14	0.055 (1.40)	1.06 (26.9)	492 (733)	163	225
E9HKT-2A3F01CA00	2/0	0.401 (10.2)	0.80 (20.4)	7 x 14	0.055 (1.40)	1.11 (28.2)	544 (811)	186	255
E9HKT-3A3F01CA00	3/0	0.451 (11.5)	0.85 (21.7)	9 x 14	0.055 (1.40)	1.16 (29.5)	627 (934)	212	286
E9HKT-4A3F01CA00	4/0	0.507 (12.9)	0.91 (23.1)	11 x 14	0.055 (1.40)	1.21 (30.7)	715 (1,065)	241	320
E9HKT-A13F01CA00	250	0.552 (14.0)	0.97 (24.5)	13 x 14	0.055 (1.40)	1.29 (32.8)	837 (1,247)	265	345
E9HKT-A33F01CA00	350	0.654 (16.6)	1.07 (27.1)	18 x 14	0.055 (1.40)	1.39 (35.4)	1,028 (1,532)	319	398
E9HKT-A63F01CA00	500	0.781 (19.8)	1.20 (30.4)	25 x 14	0.055 (1.40)	1.57 (39.9)	1,454 (2,166)	385	451
E9HKT-B23F01CA00	750	0.958 (24.3)	1.39 (35.2)	24 x 12	0.055 (1.40)	1.79 (45.5)	1,871 (2,787)	468	507
E9HKT-B53F01CA00	1000	1.106 (28.1)	1.53 (38.9)	31 x 12	0.080 (2.04)	1.93 (49.0)	2,546 (3,794)	529	549
Full Neutral									
E9HKM-023F01CA00	2	0.280 (7.1)	0.68 (17.3)	10 x 14	0.055 (1.40)	0.98 (24.9)	464 (691)	124	170
E9HKM-013F01CA00	1	0.319 (8.1)	0.72 (18.3)	13 x 14	0.055 (1.40)	1.03 (26.2)	535 (796)	143	194
E9HKM-1A3F01CA00	1/0	0.358 (9.1)	0.76 (19.3)	16 x 14	0.055 (1.40)	1.06 (26.9)	608 (906)	162	220
E9HKM-2A3F01CA00	2/0	0.401 (10.2)	0.80 (20.4)	20 x 14	0.055 (1.40)	1.11 (28.2)	722 (1,076)	186	251
E9HKM-3A3F01CA00	3/0	0.451 (11.5)	0.85 (21.7)	25 x 14	0.055 (1.40)	1.16 (29.5)	839 (1,249)	212	284
E9HKM-4A3F01CA00	4/0	0.507 (12.9)	0.91 (23.1)	32 x 14	0.055 (1.40)	1.21 (30.7)	959 (1,429)	243	323

Aluminum Unfilled, 15kV 133% I.L., 220-mils Series E9JK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9JKT-023F01CA00	2	0.280 (7.1)	0.77 (19.6)	6 x 14	0.055 (1.40)	1.08 (27.4)	486 (724)	126	175
E9JKT-013F01CA00	1	0.319 (8.1)	0.81 (20.6)	6 x 14	0.055 (1.40)	1.12 (28.4)	521 (776)	144	199
E9JKT-1A3F01CA00	1/0	0.358 (9.1)	0.85 (21.6)	6 x 14	0.055 (1.40)	1.15 (29.2)	563 (839)	163	225
E9JKT-2A3F01CA00	2/0	0.401 (10.2)	0.89 (22.7)	7 x 14	0.055 (1.40)	1.20 (30.5)	624 (930)	186	255
E9JKT-3A3F01CA00	3/0	0.451 (11.5)	0.94 (23.9)	9 x 14	0.055 (1.40)	1.25 (31.8)	707 (1,053)	212	286
E9JKT-4A3F01CA00	4/0	0.507 (12.9)	1.00 (25.4)	11 x 14	0.055 (1.40)	1.30 (33.0)	803 (1,196)	241	320
E9JKT-A13F01CA00	250	0.552 (14.0)	1.06 (26.8)	13 x 14	0.055 (1.40)	1.38 (35.1)	917 (1,366)	265	345
E9JKT-A33F01CA00	350	0.654 (16.6)	1.16 (29.4)	18 x 14	0.055 (1.40)	1.48 (37.7)	1,130 (1,684)	319	398
E9JKT-A63F01CA00	500	0.781 (19.8)	1.29 (32.6)	25 x 14	0.055 (1.40)	1.66 (42.2)	1,534 (2,286)	385	451
E9JKT-B23F01CA00	750	0.958 (24.3)	1.48 (37.5)	24 x 12	0.080 (2.04)	1.90 (48.3)	2,043 (3,044)	468	507
E9JKT-B53F01CA00	1000	1.106 (28.1)	1.62 (41.2)	31 x 12	0.080 (2.04)	2.02 (51.3)	2,626 (3,913)	529	549
Full Neutral									
E9JKM-023F01CA00	2	0.280 (7.1)	0.77 (19.6)	10 x 14	0.055 (1.40)	1.07 (27.2)	532 (792)	124	170
E9JKM-013F01CA00	1	0.319 (8.1)	0.81 (20.6)	13 x 14	0.055 (1.40)	1.12 (28.4)	603 (898)	143	194
E9JKM-1A3F01CA00	1/0	0.358 (9.1)	0.85 (21.6)	16 x 14	0.055 (1.40)	1.15 (29.2)	677 (1,008)	162	220
E9JKM-2A3F01CA00	2/0	0.401 (10.2)	0.89 (22.7)	20 x 14	0.055 (1.40)	1.19 (30.3)	790 (1,177)	186	251
E9JKM-3A3F01CA00	3/0	0.451 (11.5)	0.94 (23.9)	25 x 14	0.055 (1.40)	1.26 (32.0)	907 (1,351)	212	284
E9JKM-4A3F01CA00	4/0	0.507 (12.9)	1.00 (25.4)	32 x 14	0.055 (1.40)	1.30 (33.0)	1,095 (1,631)	243	323

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Aluminum Unfilled, 25kV 100% I.L., 260-mils Series E9KK

PART NUMBERS AND PHYSICAL CHARACTERISTICS									
Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9KKT-013F01CA00	1	0.319 (8.1)	0.89 (22.6)	6 x 14	0.055 (1.40)	1.20 (30.5)	580 (864)	146	196
E9KKT-1A3F01CA00	1/0	0.358 (9.1)	0.93 (23.6)	6 x 14	0.055 (1.40)	1.23 (31.2)	624 (930)	166	222
E9KKT-2A3F01CA00	2/0	0.401 (10.2)	0.97 (24.6)	7 x 14	0.055 (1.40)	1.28 (32.5)	687 (1,024)	189	251
E9KKT-3A3F01CA00	3/0	0.451 (11.5)	1.02 (25.9)	9 x 14	0.055 (1.40)	1.35 (34.3)	793 (1,182)	216	283
E9KKT-4A3F01CA00	4/0	0.507 (12.9)	1.08 (27.4)	11 x 14	0.055 (1.40)	1.41 (35.8)	892 (1,329)	245	317
E9KKT-A13F01CA00	250	0.552 (14.0)	1.14 (29.0)	13 x 14	0.055 (1.40)	1.46 (37.1)	990 (1,475)	269	343
E9KKT-A33F01CA00	350	0.654 (16.6)	1.24 (31.5)	18 x 14	0.055 (1.40)	1.56 (39.5)	1,208 (1,800)	322	397
E9KKT-A63F01CA00	500	0.781 (19.8)	1.37 (34.8)	25 x 14	0.055 (1.40)	1.79 (45.5)	1,623 (2,418)	389	451
E9KKT-B23F01CA00	750	0.958 (24.3)	1.56 (39.6)	24 x 12	0.080 (2.04)	2.01 (51.1)	2,187 (3,259)	473	513
E9KKT-B53F01CA00	1000	1.106 (28.1)	1.71 (43.4)	31 x 12	0.080 (2.04)	2.20 (55.9)	2,736 (4,077)	533	555
Full Neutral									
E9KKM-013F01CA00	1	0.319 (8.1)	0.89 (22.6)	13 x 14	0.055 (1.40)	1.19 (30.3)	658 (980)	146	194
E9KKM-1A3F01CA00	1/0	0.358 (9.1)	0.93 (23.6)	16 x 14	0.055 (1.40)	1.23 (31.2)	733 (1,092)	166	219
E9KKM-2A3F01CA00	2/0	0.401 (10.2)	0.97 (24.6)	20 x 14	0.055 (1.40)	1.27 (32.3)	850 (1,267)	190	250
E9KKM-3A3F01CA00	3/0	0.451 (11.5)	1.02 (25.9)	25 x 14	0.055 (1.40)	1.35 (34.2)	980 (1,459)	217	283
E9KKM-4A3F01CA00	4/0	0.507 (12.9)	1.08 (27.4)	32 x 14	0.055 (1.40)	1.41 (35.8)	1,184 (1,763)	248	322

Aluminum Unfilled, 35kV 100% I.L., 345-mils Series E9MK

PART NUMBERS AND PHYSICAL CHARACTERISTICS									
Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
1/2 Reduced Neutral									
E9MKJ-B23F01CA00	750	0.958 (24.3)	1.73 (43.9)	19x14	0.080 (2.04)	2.18 (55.4)	2,039 (3,038)	-	652 ³
E9MKJ-B53F01CA00	1000	1.106 (28.1)	1.88 (47.8)	25x14	0.080 (2.04)	2.37 (60.2)	2,436 (3,630)	-	750 ³
E9MKJ-B83F01CA00	1250	1.238 (31.4)	2.05 (52.0)	31x14	0.080 (2.04)	2.58 (65.5)	2,749 (4,096)	-	833 ³
1/2 Reduced Neutral									
E9MKT-1A3F01CA00	1/0	0.358 (9.1)	1.10 (27.9)	6 x 14	0.055 (1.40)	1.40 (35.6)	792 (1,180)	168	219
E9MKT-2A3F01CA00	2/0	0.401 (10.2)	1.15 (29.2)	7 x 14	0.055 (1.40)	1.47 (37.3)	861 (1,283)	191	248
E9MKT-3A3F01CA00	3/0	0.451 (11.5)	1.20 (30.5)	9 x 14	0.055 (1.40)	1.52 (38.6)	952 (1,418)	218	280
E9MKT-4A3F01CA00	4/0	0.507 (12.9)	1.26 (32.0)	11 x 14	0.055 (1.40)	1.58 (40.1)	1,058 (1,576)	247	314
E9MKT-A13F01CA00	250	0.552 (14.0)	1.31 (33.3)	13 x 14	0.055 (1.40)	1.70 (43.2)	1,224 (1,824)	271	339
E9MKT-A33F01CA00	350	0.654 (16.6)	1.41 (35.8)	18 x 14	0.055 (1.40)	1.78 (45.1)	1,457 (2,171)	325	394
E9MKT-A63F01CA00	500	0.781 (19.8)	1.54 (39.1)	25 x 14	0.080 (2.04)	1.94 (49.2)	1,875 (2,794)	392	452
E9MKT-B23F01CA00	750	0.958 (24.3)	1.73 (43.9)	24 x 12	0.080 (2.04)	2.18 (55.4)	2,419 (3,604)	476	517
E9MKT-B53F01CA00	1000	1.106 (28.1)	1.88 (47.8)	31 x 12	0.080 (2.04)	2.37 (60.2)	2,989 (4,454)	536	560
Full Neutral									
E9MKM-1A3F01CA00	1/0	0.358 (9.1)	1.10 (27.9)	16 x 14	0.055 (1.40)	1.40 (35.6)	899 (1,340)	169	218
E9MKM-2A3F01CA00	2/0	0.401 (10.2)	1.15 (29.2)	20 x 14	0.055 (1.40)	1.48 (37.7)	1,024 (1,526)	194	249
E9MKM-3A3F01CA00	3/0	0.451 (11.5)	1.20 (30.5)	25 x 14	0.055 (1.40)	1.53 (38.9)	1,148 (1,711)	220	283
E9MKM-4A3F01CA00	4/0	0.507 (12.9)	1.26 (32.0)	32 x 14	0.055 (1.40)	1.66 (42.1)	1,385 (2,063)	252	321

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.
²Ampacities: 1/2 Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C • conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.
³Ampacities: 1/2 Reduced Neutral, 3-phase installation with one cable per phase, in a trefoil configuration, earth rho of 90°C cm/W, earth ambient of 20°C, neutral wires grounded at both ends, conductor temperature 90°C, and 36" burial depth.

Aluminum Filled, 15kV 100% I.L., 175-mils Series E9HK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9HKT-026F01CA00	2	0.280 (7.1)	0.68 (17.3)	6 x 14	0.055 (1.40)	0.98 (24.9)	407 (606)	126	175
E9HKT-016F01CA00	1	0.319 (8.1)	0.72 (18.3)	6 x 14	0.055 (1.40)	1.03 (26.2)	442 (658)	144	199
E9HKT-1A6F01CA00	1/0	0.358 (9.1)	0.76 (19.3)	6 x 14	0.055 (1.40)	1.06 (26.9)	493 (735)	163	225
E9HKT-2A6F01CA00	2/0	0.401 (10.2)	0.80 (20.4)	7 x 14	0.055 (1.40)	1.11 (28.2)	545 (812)	186	255
E9HKT-3A6F01CA00	3/0	0.451 (11.5)	0.85 (21.7)	9 x 14	0.055 (1.40)	1.16 (29.5)	628 (936)	212	286
E9HKT-4A6F01CA00	4/0	0.507 (12.9)	0.91 (23.1)	11 x 14	0.055 (1.40)	1.21 (30.7)	716 (1,067)	241	320
E9HKT-A16F01CA00	250	0.552 (14.0)	0.97 (24.5)	13 x 14	0.055 (1.40)	1.29 (32.8)	839 (1,250)	265	345
E9HKT-A36F01CA00	350	0.654 (16.6)	1.07 (27.1)	18 x 14	0.055 (1.40)	1.39 (35.4)	1,030 (1,535)	319	398
E9HKT-A66F01CA00	500	0.781 (19.8)	1.20 (30.4)	25 x 14	0.055 (1.40)	1.57 (39.9)	1,457 (2,171)	385	451
E9HKT-B26F01CA00	750	0.958 (24.3)	1.39 (35.2)	24 x 12	0.055 (1.40)	1.79 (45.5)	1,871 (2,787)	468	507
E9HKT-B56F01CA00	1000	1.106 (28.1)	1.53 (38.9)	31 x 12	0.080 (2.04)	1.93 (49.0)	2,546 (3,794)	529	549
Full Neutral									
E9HKM-026F01CA00	2	0.280 (7.1)	0.68 (17.3)	10 x 14	0.055 (1.40)	0.98 (24.9)	465 (693)	124	170
E9HKM-016F01CA00	1	0.319 (8.1)	0.72 (18.3)	13 x 14	0.055 (1.40)	1.03 (26.2)	536 (799)	143	194
E9HKM-1A6F01CA00	1/0	0.358 (9.1)	0.76 (19.3)	16 x 14	0.055 (1.40)	1.06 (26.9)	609 (908)	162	220
E9HKM-2A6F01CA00	2/0	0.401 (10.2)	0.80 (20.4)	20 x 14	0.055 (1.40)	1.11 (28.2)	691 (1,029)	186	251
E9HKM-3A6F01CA00	3/0	0.451 (11.5)	0.85 (21.7)	25 x 14	0.055 (1.40)	1.16 (29.5)	841 (1,253)	212	284
E9HKM-4A6F01CA00	4/0	0.507 (12.9)	0.91 (23.1)	32 x 14	0.055 (1.40)	1.21 (30.7)	961 (1,432)	243	323

Aluminum Filled, 15kV 133% I.L., 220-mils Series E9JK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9JKT-026F01CA00	2	0.280 (7.1)	0.77 (19.6)	6 x 14	0.055 (1.40)	1.08 (27.4)	487 (726)	126	175
E9JKT-016F01CA00	1	0.319 (8.1)	0.81 (20.6)	6 x 14	0.055 (1.40)	1.12 (28.4)	522 (778)	144	199
E9JKT-1A6F01CA00	1/0	0.358 (9.1)	0.85 (21.6)	6 x 14	0.055 (1.40)	1.15 (29.2)	564 (841)	163	225
E9JKT-2A6F01CA00	2/0	0.401 (10.2)	0.89 (22.7)	7 x 14	0.055 (1.40)	1.20 (30.5)	625 (932)	186	255
E9JKT-3A6F01CA00	3/0	0.451 (11.5)	0.94 (23.9)	9 x 14	0.055 (1.40)	1.25 (31.8)	708 (1,056)	212	286
E9JKT-4A6F01CA00	4/0	0.507 (12.9)	1.00 (25.4)	11 x 14	0.055 (1.40)	1.30 (33.0)	805 (1,199)	241	320
E9JKT-A16F01CA00	250	0.552 (14.0)	1.06 (26.8)	13 x 14	0.055 (1.40)	1.38 (35.1)	919 (1,369)	265	345
E9JKT-A36F01CA00	350	0.654 (16.6)	1.16 (29.4)	18 x 14	0.055 (1.40)	1.48 (37.7)	1,132 (1,687)	319	398
E9JKT-A66F01CA00	500	0.781 (19.8)	1.29 (32.6)	25 x 14	0.055 (1.40)	1.66 (42.2)	1,537 (2,290)	385	451
E9JKT-B26F01CA00	750	0.958 (24.3)	1.48 (37.5)	24 x 12	0.080 (2.04)	1.90 (48.3)	2,043 (3,044)	468	507
E9JKT-B56F01CA00	1000	1.106 (28.1)	1.62 (41.2)	31 x 12	0.080 (2.04)	2.02 (51.3)	2,626 (3,913)	529	549
Full Neutral									
E9JKM-026F01CA00	2	0.280 (7.1)	0.77 (19.6)	10 x 14	0.055 (1.40)	1.07 (27.2)	533 (794)	124	170
E9JKM-016F01CA00	1	0.319 (8.1)	0.81 (20.6)	13 x 14	0.055 (1.40)	1.12 (28.4)	604 (900)	143	194
E9JKM-1A6F01CA00	1/0	0.358 (9.1)	0.85 (21.6)	16 x 14	0.055 (1.40)	1.15 (29.2)	678 (1,011)	162	220
E9JKM-2A6F01CA00	2/0	0.401 (10.2)	0.89 (22.7)	20 x 14	0.055 (1.40)	1.19 (30.3)	792 (1,179)	186	251
E9JKM-3A6F01CA00	3/0	0.451 (11.5)	0.94 (23.9)	25 x 14	0.055 (1.40)	1.26 (32.0)	909 (1,354)	212	284
E9JKM-4A6F01CA00	4/0	0.507 (12.9)	1.00 (25.4)	32 x 14	0.055 (1.40)	1.30 (33.0)	1,097 (1,635)	243	323

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Aluminum Filled, 25kV 100% I.L., 260-mils Series E9KK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9KKT-016F01CA00	1	0.319 (8.1)	0.89 (22.6)	6 x 14	0.055 (1.40)	1.20 (30.5)	581 (866)	146	196
E9KKT-1A6F01CA00	1/0	0.358 (9.1)	0.93 (23.6)	6 x 14	0.055 (1.40)	1.23 (31.2)	625 (932)	166	222
E9KKT-2A6F01CA00	2/0	0.401 (10.2)	0.97 (24.6)	7 x 14	0.055 (1.40)	1.28 (32.5)	688 (1,026)	189	251
E9KKT-3A6F01CA00	3/0	0.451 (11.5)	1.02 (25.9)	9 x 14	0.055 (1.40)	1.35 (34.3)	795 (1,184)	216	283
E9KKT-4A6F01CA00	4/0	0.507 (12.9)	1.08 (27.4)	11 x 14	0.055 (1.40)	1.41 (35.8)	910 (1,356)	245	317
E9KKT-A16F01CA00	250	0.552 (14.0)	1.14 (29.0)	13 x 14	0.055 (1.40)	1.46 (37.1)	992 (1,478)	269	343
E9KKT-A36F01CA00	350	0.654 (16.6)	1.24 (31.5)	18 x 14	0.055 (1.40)	1.56 (39.5)	1,210 (1,804)	322	397
E9KKT-A66F01CA00	500	0.781 (19.8)	1.37 (34.8)	25 x 14	0.055 (1.40)	1.79 (45.5)	1,626 (2,423)	389	451
E9KKT-B26F01CA00	750	0.958 (24.3)	1.56 (39.6)	24 x 12	0.080 (2.04)	2.01 (51.1)	2,187 (3,259)	473	513
E9KKT-B56F01CA00	1000	1.106 (28.1)	1.71 (43.4)	31 x 12	0.080 (2.04)	2.20 (55.9)	2,736 (4,077)	533	555
Full Neutral									
E9KKM-016F01CA00	1	0.319 (8.1)	0.89 (22.6)	13 x 14	0.055 (1.40)	1.19 (30.3)	659 (982)	146	194
E9KKM-1A6F01CA00	1/0	0.358 (9.1)	0.93 (23.6)	16 x 14	0.055 (1.40)	1.23 (31.2)	734 (1,094)	166	219
E9KKM-2A6F01CA00	2/0	0.401 (10.2)	0.97 (24.6)	20 x 14	0.055 (1.40)	1.27 (32.3)	852 (1,269)	190	250
E9KKM-3A6F01CA00	3/0	0.451 (11.5)	1.02 (25.9)	25 x 14	0.055 (1.40)	1.35 (34.2)	982 (1,463)	217	283
E9KKM-4A6F01CA00	4/0	0.507 (12.9)	1.08 (27.4)	32 x 14	0.055 (1.40)	1.41 (35.8)	1,186 (1,768)	248	322

Aluminum Filled, 35kV 100% I.L., 345-mils Series E9MK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9MKJ-B26F01CA00	750	0.958 (24.3)	1.73 (43.9)	19 x 14	0.080 (2.04)	2.18 (55.4)	2,043 (3,041)	-	652 ³
E9MKJ-B56F01CA00	1000	1.106 (28.1)	1.88 (47.8)	25 x 14	0.080 (2.04)	2.37 (60.2)	2,441 (3,634)	-	750 ³
E9MKJ-B86F01CA00	1250	1.238 (31.4)	2.05 (52.0)	31 x 14	0.080 (2.04)	2.58 (65.5)	2,755 (4,101)	-	833 ³
½ Reduced Neutral									
E9MKT-1A6F01CA00	1/0	0.358 (9.1)	1.10 (27.9)	6 x 14	0.055 (1.40)	1.40 (35.6)	794 (1,182)	168	219
E9MKT-2A6F01CA00	2/0	0.401 (10.2)	1.15 (29.2)	7 x 14	0.055 (1.40)	1.47 (37.3)	863 (1,285)	191	248
E9MKT-3A6F01CA00	3/0	0.451 (11.5)	1.20 (30.5)	9 x 14	0.055 (1.40)	1.52 (38.6)	954 (1,421)	218	280
E9MKT-4A6F01CA00	4/0	0.507 (12.9)	1.26 (32.0)	11 x 14	0.055 (1.40)	1.58 (40.1)	1,060 (1,580)	247	314
E9MKT-A16F01CA00	250	0.552 (14.0)	1.31 (33.3)	13 x 14	0.055 (1.40)	1.70 (43.2)	1,226 (1,827)	271	339
E9MKT-A36F01CA00	350	0.654 (16.6)	1.41 (35.8)	18 x 14	0.055 (1.40)	1.78 (45.1)	1,460 (2,175)	325	394
E9MKT-A66F01CA00	500	0.781 (19.8)	1.54 (39.1)	25 x 14	0.080 (2.04)	1.94 (49.2)	1,879 (2,799)	392	452
E9MKT-B26F01CA00	750	0.958 (24.3)	1.73 (43.9)	24 x 12	0.080 (2.04)	2.18 (55.4)	2,419 (3,604)	476	517
E9MKT-B56F01CA00	1000	1.106 (28.1)	1.88 (47.8)	31 x 12	0.080 (2.04)	2.37 (60.2)	2,989 (4,454)	536	560
Full Neutral									
E9MKM-1A6F01CA00	1/0	0.358 (9.1)	1.10 (27.9)	16 x 14	0.055 (1.40)	1.40 (35.6)	901 (1,342)	169	218
E9MKM-2A6F01CA00	2/0	0.401 (10.2)	1.15 (29.2)	20 x 14	0.055 (1.40)	1.48 (37.7)	1,026 (1,529)	194	249
E9MKM-3A6F01CA00	3/0	0.451 (11.5)	1.20 (30.5)	25 x 14	0.055 (1.40)	1.53 (38.9)	1,150 (1,714)	220	283
E9MKM-4A6F01CA00	4/0	0.507 (12.9)	1.26 (32.0)	32 x 14	0.055 (1.40)	1.66 (42.1)	1,388 (2,068)	252	321

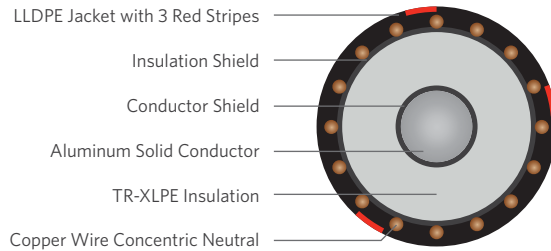
¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: 1/2 Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90

³Ampacities: 1/2 Reduced Neutral, 3-phase installation with one cable per phase, in a trefoil configuration, earth rho of 90°C cm/W, earth ambient of 20°C, neutral wires grounded at both ends, conductor temperature 90°C, and 36" burial depth..

TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV

Series E9 (Aluminum Solid Conductor)



LLDPE Jacket with 3 Red Stripes

Insulation Shield

Conductor Shield

Aluminum Solid Conductor

TR-XLPE Insulation

Copper Wire Concentric Neutral

PRODUCT DESCRIPTION

The Medium Voltage Primary Underground Distribution (UD) cables consist of an Aluminum Solid conductor, covered with tree-retardant cross-linked polyethylene (TR-XLPE), a concentric neutral of helically applied copper wires, and a linear low-density polyethylene (LLDPE) jacket with 3 extruded red stripes.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent resistance to treeing
- Jacket is sunlight-resistant
- Designed to operate continuously at a conductor temperature not exceeding
 - » 90°C for normal operations
 - » 130°C for emergency overload
 - » 250°C for short circuit

MARKETS



SPECIFICATIONS

Conductor Count	1 conductor
Conductor	Aluminum 1350 Solid
Gauge Sizes	Available in 2 AWG through 4/0AWG
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Tree-Retardant Cross-linked Polyethylene (TR-XLPE)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Neutral	Helically applied, annealed, solid bare copper wires
Jacket	Linear Low-Density Polyethylene (LLDPE)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (KCMIL) AL SOL 1/C XXXKV XXX% INSUL LEVEL XXXMILS TRXLP AA X #BB LLDPE JKT TYPE MV-90 (UL) MADE IN USA MMDDYYYY (LIGHTNING BOLT)
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B-3 ASTM B-230 ASTM B-609 ICEA S-94-649 AIEC CS8 UL 1072 (MV-90) RUS U1

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Neutral Options	Jacket
Al	Solid	MV	TR XLPE	RCN or FCN	LLDPE

Aluminum Solid, 15kV 133% I.L., 220-mils Series E9JK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9JKT-023S01CA00	2	0.258 (6.6)	0.745 (19.0)	6 x 14	0.055 (1.40)	1.055 (27.0)	485 (721)	126	175
E9JKT-013S01CA00	1	0.289 (7.4)	0.777 (19.9)	6 x 14	0.055 (1.40)	1.087 (27.8)	520 (773)	144	199
E9JKT-1A3S01CA00	1/0	0.325 (8.3)	0.813 (20.8)	6 x 14	0.055 (1.40)	1.123 (28.7)	561 (835)	163	225
E9JKT-2A3S01CA00	2/0	0.365 (9.3)	0.850 (21.7)	7 x 14	0.055 (1.40)	1.160 (29.7)	622 (925)	186	255
E9JKT-3A3S01CA00	3/0	0.410 (10.4)	0.894 (22.9)	9 x 14	0.055 (1.40)	1.204 (30.8)	704 (1047)	212	286
E9JKT-4A3S01CA00	4/0	0.460 (11.7)	0.948 (24.3)	11 x 14	0.055 (1.40)	1.258 (32.2)	799 (1189)	241	320
Full Neutral									
E9JKM-023S01CA00	2	0.258 (6.6)	0.745 (19.0)	9 x 14	0.055 (1.40)	1.055 (27.0)	531 (790)	124	170
E9JKM-013S01CA00	1	0.289 (7.4)	0.777 (19.9)	13 x 14	0.055 (1.40)	1.087 (27.8)	602 (895)	143	194
E9JKM-1A3S01CA00	1/0	0.325 (8.3)	0.813 (20.8)	16 x 14	0.055 (1.40)	1.123 (28.7)	675 (1004)	162	220
E9JKM-2A3S01CA00	2/0	0.365 (9.3)	0.850 (21.7)	20 x 14	0.055 (1.40)	1.160 (29.7)	788 (1172)	186	251
E9JKM-3A3S01CA00	3/0	0.410 (10.4)	0.894 (22.9)	25 x 14	0.055 (1.40)	1.204 (30.8)	904 (1345)	212	284
E9JKM-4A3S01CA00	4/0	0.460 (11.7)	0.948 (24.3)	32 x 14	0.055 (1.40)	1.258 (32.2)	1091 (1623)	243	323

Aluminum Solid, 25kV 100% I.L., 260-mils Series E9KK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

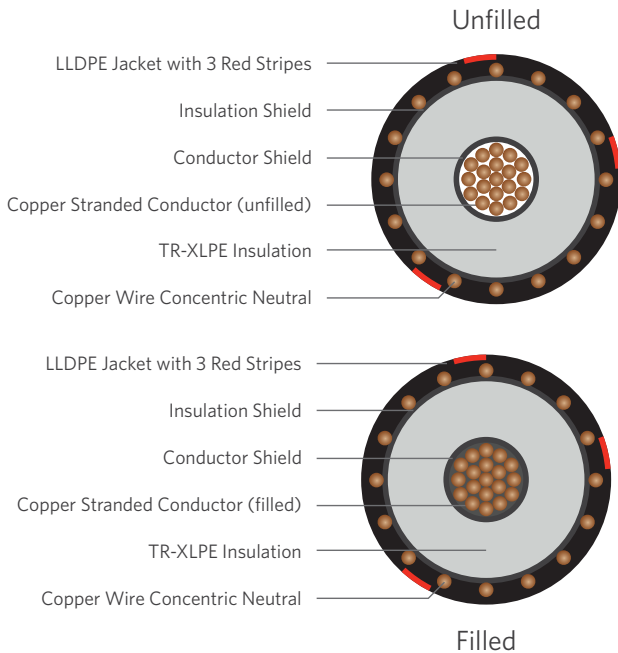
Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9KKT-013S01CA00	1	0.289 (7.4)	0.857 (21.9)	6 x 14	0.055 (1.40)	1.167 (29.9)	579 (861)	146	196
E9KKT-1A3S01CA00	1/0	0.325 (8.3)	0.893 (22.8)	6 x 14	0.055 (1.40)	1.203 (30.8)	622 (926)	166	222
E9KKT-2A3S01CA00	2/0	0.365 (9.3)	0.930 (23.8)	7 x 14	0.055 (1.40)	1.240 (31.7)	685 (1018)	189	283
E9KKT-3A3S01CA00	3/0	0.410 (10.4)	0.974 (24.9)	9 x 14	0.055 (1.40)	1.304 (33.3)	790 (1175)	216	317
E9KKT-4A3S01CA00	4/0	0.460 (11.7)	1.028 (26.3)	11 x 14	0.055 (1.40)	1.358 (34.7)	888 (1321)	245	343
Full Neutral									
E9KKM-013S01CA00	1	0.289 (7.4)	0.857 (21.9)	13 x 14	0.055 (1.40)	1.157 (29.6)	657 (977)	146	194
E9KKM-1A3S01CA00	1/0	0.325 (8.3)	0.893 (22.8)	16 x 14	0.055 (1.40)	1.193 (30.5)	731 (1088)	166	219
E9KKM-2A3S01CA00	2/0	0.365 (9.3)	0.930 (23.8)	20 x 14	0.055 (1.40)	1.250 (32.0)	848 (1261)	190	250
E9KKM-3A3S01CA00	3/0	0.410 (10.4)	0.974 (24.9)	25 x 14	0.055 (1.40)	1.304 (33.3)	977 (1454)	217	283
E9KKM-4A3S01CA00	4/0	0.460 (11.7)	1.028 (26.3)	32 x 14	0.055 (1.40)	1.398 (35.8)	1180 (1756)	248	322

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV

Series E9 (Copper Conductors)



PRODUCT DESCRIPTION

The Medium Voltage Primary Underground Distribution (UD) cables consist of an Copper (filled or unfilled) conductor, covered with tree-retardant cross-linked polyethylene (TR-XLPE), a concentric neutral of helically applied copper wires, and a linear low-density polyethylene (LLDPE) jacket with 3 extruded red stripes.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent resistance to treeing
- Jacket is sunlight-resistant
- Designed to operate continuously at a conductor temperature not exceeding
 - » 90°C for normal operations
 - » 130°C for emergency overload
 - » 250°C for short circuit

MARKETS



SPECIFICATIONS

Conductor Count	1 conductor
Conductor	Fully annealed bare copper Class B compressed strand (filled or unfilled)
Gauge Sizes	Filled: Available in 2 AWG through 1000 kcmil Unfilled: Available in 2 AWG through 1000 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor *Super-Smooth available upon request
Insulation	Tree-Retardant Cross-linked Polyethylene (TR-XLPE)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Neutral	Helically applied, annealed, solid bare copper wires
Jacket	Linear Low-Density Polyethylene (LLDPE)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (KCMIL) AL FS 1/C XXXV XXX% INSUL LEVEL XXXMILS TRXLP XXAWG X XX LLDPE JKT TYPE MV-90 (UL) MADE IN USA MMDDYYYY (LIGHTNING BOLT)
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B-3 ASTM B-8 ICEA S-94-649 ICEA T-31-610 (water block compliance) AIEC CS8 UL 1072 (MV-90) RUS U1

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Neutral Options	Jacket
Cu	Filled B or B	MV	TR XLPE	RCN or FCN	LLDPE

Copper Unfilled, 15kV 100% I.L., 175-mils Series E9HK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9HKT-021B01CA00	2	0.280 (7.1)	0.68 (17.3)	6 x 14	0.055 (1.40)	0.98 (24.9)	566 (843)	162	224
E9HKT-011B01CA00	1	0.319 (8.1)	0.72 (18.3)	7 x 14	0.055 (1.40)	1.03 (26.2)	647 (964)	184	252
E9HKT-1A1B01CA00	1/0	0.358 (9.1)	0.76 (19.3)	9 x 14	0.055 (1.40)	1.06 (26.9)	757 (1128)	210	284
E9HKT-2A1B01CA00	2/0	0.401 (10.2)	0.80 (20.4)	11 x 14	0.055 (1.40)	1.11 (28.2)	886 (1320)	238	317
E9HKT-3A1B01CA00	3/0	0.451 (11.5)	0.85 (21.7)	14 x 14	0.055 (1.40)	1.16 (29.5)	1051 (1566)	271	351
E9HKT-4A1B01CA00	4/0	0.507 (12.9)	0.91 (23.1)	18 x 14	0.055 (1.40)	1.21 (30.7)	1259 (1876)	307	385
E9HKT-A11B01CA00	250	0.552 (14.0)	0.97 (24.5)	21 x 14	0.055 (1.40)	1.29 (32.8)	1445 (2163)	336	410
E9HKT-A31B01CA00	350	0.654 (16.6)	1.07 (27.1)	29 x 14	0.055 (1.40)	1.39 (35.4)	1945 (2898)	400	457
E9HKT-A61B01CA00	500	0.781 (19.8)	1.20 (30.4)	26 x 12	0.055 (1.40)	1.57 (39.9)	2685 (4001)	471	501
E9HKT-B21B01CA00	750	0.958 (24.3)	1.39 (35.2)	25 x 10	0.055 (1.40)	1.79 (45.5)	3912 (5829)	548	559
E9HKT-B51B01CA00	1000	1.106 (28.1)	1.53 (38.9)	32 X 10	0.080 (2.04)	2.08 (52.9)	5,107 (7,610)	596	669
Full Neutral									
E9HKM-021B01CA00	2	0.280 (7.1)	0.68 (17.3)	16 x 14	0.055 (1.40)	0.98 (24.9)	682 (1016)	158	217
E9HKM-011B01CA00	1	0.319 (8.1)	0.72 (18.3)	20 x 14	0.055 (1.40)	1.03 (26.2)	830 (1237)	182	246
E9HKM-1A1B01CA00	1/0	0.358 (9.1)	0.76 (19.3)	25 x 14	0.055 (1.40)	1.06 (26.9)	973 (1450)	207	279
E9HKM-2A1B01CA00	2/0	0.401 (10.2)	0.80 (20.4)	32 x 14	0.055 (1.40)	1.11 (28.2)	1196 (1782)	237	317
E9HKM-3A1B01CA00	3/0	0.451 (11.5)	0.85 (21.7)	25 x 14	0.055 (1.40)	1.16 (29.5)	1417 (2111)	270	359
E9HKM-4A1B01CA00	4/0	0.507 (12.9)	0.91 (23.1)	32 x 12	0.055 (1.40)	1.21 (30.7)	1724 (2569)	307	407

Copper Unfilled, 15kV 133% I.L., 220-mils Series E9JK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9JKT-021B01CA00	2	0.280 (7.1)	0.77 (19.6)	6 x 14	0.055 (1.40)	1.08 (27.4)	625 (931)	162	224
E9JKT-011B01CA00	1	0.319 (8.1)	0.81 (20.6)	7 x 14	0.055 (1.40)	1.12 (28.4)	709 (1056)	184	252
E9JKT-1A1B01CA00	1/0	0.358 (9.1)	0.85 (21.6)	9 x 14	0.055 (1.40)	1.15 (29.2)	821 (1223)	210	284
E9JKT-2A1B01CA00	2/0	0.401 (10.2)	0.89 (22.7)	11 x 14	0.055 (1.40)	1.20 (30.5)	952 (1418)	238	317
E9JKT-3A1B01CA00	3/0	0.451 (11.5)	0.94 (23.9)	14 x 14	0.055 (1.40)	1.25 (31.8)	1120 (1669)	271	351
E9JKT-4A1B01CA00	4/0	0.507 (12.9)	1.00 (25.4)	18 x 14	0.055 (1.40)	1.30 (33.0)	1331 (1983)	307	385
E9JKT-A11B01CA00	250	0.552 (14.0)	1.06 (26.8)	21 x 14	0.055 (1.40)	1.38 (35.1)	1541 (2296)	336	410
E9JKT-A31B01CA00	350	0.654 (16.6)	1.16 (29.4)	29 x 14	0.055 (1.40)	1.48 (37.7)	2029 (3023)	400	457
E9JKT-A61B01CA00	500	0.781 (19.8)	1.29 (32.6)	26 x 12	0.055 (1.40)	1.66 (42.2)	2845 (4239)	471	5001
E9JKT-B21B01CA00	750	0.958 (24.3)	1.48 (37.5)	25 x 10	0.080 (2.04)	1.90 (48.3)	4022 (5993)	548	559
E9JKT-B51B01CA00	1000	1.106 (28.1)	1.62 (41.2)	32 X 10	0.080 (2.04)	2.02 (51.4)	5,229 (6,301)	596	669
Full Neutral									
E9JKM-021B01CA00	2	0.280 (7.1)	0.77 (19.6)	16 x 14	0.055 (1.40)	1.07 (27.2)	625 (931)	162	224
E9JKM-011B01CA00	1	0.319 (8.1)	0.81 (20.6)	20 x 14	0.055 (1.40)	1.12 (28.4)	709 (1056)	184	252
E9JKM-1A1B01CA00	1/0	0.358 (9.1)	0.85 (21.6)	25 x 14	0.055 (1.40)	1.15 (29.2)	821 (1223)	210	284
E9JKM-2A1B01CA00	2/0	0.401 (10.2)	0.89 (22.7)	32 x 14	0.055 (1.40)	1.19 (30.3)	952 (1418)	238	317
E9JKM-3A1B01CA00	3/0	0.451 (11.5)	0.94 (23.9)	25 x 14	0.055 (1.40)	1.26 (32.0)	1120 (1669)	271	351
E9JKM-4A1B01CA00	4/0	0.507 (12.9)	1.00 (25.4)	32 x 12	0.055 (1.40)	1.30 (33.0)	1331 (1983)	307	385

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Copper Unfilled, 25kV 100% I.L., 260-mils Series E9KK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9KKT-011B01CA00	1	0.319 (8.1)	0.89 (22.6)	7 x 14	0.055 (1.40)	1.20 (30.5)	768 (1144)	187	249
E9KKT-1A1B01CA00	1/0	0.358 (9.1)	0.93 (23.6)	9 x 14	0.055 (1.40)	1.23 (31.2)	882 (1314)	213	281
E9KKT-2A1B01CA00	2/0	0.401 (10.2)	0.97 (24.6)	11 x 14	0.055 (1.40)	1.28 (32.5)	1015 (1512)	242	314
E9KKT-3A1B01CA00	3/0	0.451 (11.5)	1.02 (25.9)	14 x 14	0.055 (1.40)	1.35 (34.3)	1206 (1797)	275	349
E9KKT-4A1B01CA00	4/0	0.507 (12.9)	1.08 (27.4)	18 x 14	0.055 (1.40)	1.41 (35.8)	1421 (2117)	311	384
E9KKT-A11B01CA00	250	0.552 (14.0)	1.14 (29.0)	21 x 14	0.055 (1.40)	1.46 (37.1)	1614 (2405)	341	410
E9KKT-A31B01CA00	350	0.654 (16.6)	1.24 (31.5)	29 x 14	0.055 (1.40)	1.56 (39.5)	2109 (3142)	405	460
E9KKT-A61B01CA00	500	0.781 (19.8)	1.37 (34.8)	26 x 12	0.055 (1.40)	1.79 (45.5)	2936 (4375)	475	504
E9KKT-B21B01CA00	750	0.958 (24.3)	1.56 (39.6)	25 x 10	0.080 (2.04)	2.01 (51.1)	4170 (6213)	556	567
E9KKT-B51B01CA00	1000	1.106 (28.1)	1.71 (43.4)	32 X 10	0.080 (2.04)	2.20 (55.9)	5,342 (7,959)	603	620
Full Neutral									
E9KKM-011B01CA00	1	0.319 (8.1)	0.89 (22.6)	20 x 14	0.055 (1.40)	1.19 (30.3)	954 (1421)	187	246
E9KKM-1A1B01CA00	1/0	0.358 (9.1)	0.93 (23.6)	25 x 14	0.055 (1.40)	1.23 (31.2)	1101 (1640)	212	279
E9KKM-2A1B01CA00	2/0	0.401 (10.2)	0.97 (24.6)	32 x 14	0.055 (1.40)	1.27 (32.3)	1333 (1986)	243	317
E9KKM-3A1B01CA00	3/0	0.451 (11.5)	1.02 (25.9)	25 x 14	0.055 (1.40)	1.35 (34.2)	1581 (2356)	276	359
E9KKM-4A1B01CA00	4/0	0.507 (12.9)	1.08 (27.4)	32 x 12	0.055 (1.40)	1.41 (35.8)	1899 (2830)	314	406

Copper Unfilled, 35kV 100% I.L., 345-mils Series E9MK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9MKT-1A1B01CA00	1/0	0.358 (9.1)	1.10 (27.9)	9 x 14	0.055 (1.40)	1.40 (35.6)	1050 (1565)	216	278
E9MKT-2A1B01CA00	2/0	0.401 (10.2)	1.15 (29.2)	11 x 14	0.055 (1.40)	1.47 (37.3)	1188 (1770)	245	311
E9MKT-3A1B01CA00	3/0	0.451 (11.5)	1.20 (30.5)	14 x 14	0.055 (1.40)	1.52 (38.6)	1365 (2034)	278	347
E9MKT-4A1B01CA00	4/0	0.507 (12.9)	1.26 (32.0)	18 x 14	0.055 (1.40)	1.58 (40.1)	1586 (2363)	314	383
E9MKT-A11B01CA00	250	0.552 (14.0)	1.31 (33.3)	21 x 14	0.055 (1.40)	1.70 (43.2)	1848 (2754)	344	409
E9MKT-A31B01CA00	350	0.654 (16.6)	1.41 (35.8)	29 x 14	0.055 (1.40)	1.78 (45.1)	2363 (3521)	408	461
E9MKT-A61B01CA00	500	0.781 (19.8)	1.54 (39.1)	26 x 12	0.080 (2.04)	1.94 (49.2)	3194 (4759)	480	510
E9MKT-B21B01CA00	750	0.958 (24.3)	1.73 (43.9)	25 x 10	0.080 (2.04)	2.18 (55.4)	4410 (6571)	561	573
E9MKT-B51B01CA00	1000	1.106 (28.1)	1.106 (28.1)	32 X 10	0.080 (2.04)	2.37 (60.2)	5,524 (8,231)	603	620
Full Neutral									
E9MKM-1A1B01CA00	1/0	0.358 (9.1)	1.10 (27.9)	25 x 14	0.055 (1.40)	1.40 (35.6)	1274 (1898)	217	278
E9MKM-2A1B01CA00	2/0	0.401 (10.2)	1.15 (29.2)	32 x 14	0.055 (1.40)	1.48 (37.7)	1516 (2259)	248	316
E9MKM-3A1B01CA00	3/0	0.451 (11.5)	1.20 (30.5)	25 x 14	0.055 (1.40)	1.53 (38.9)	1749 (2606)	281	358
E9MKM-4A1B01CA00	4/0	0.507 (12.9)	1.26 (32.0)	32 x 12	0.055 (1.40)	1.66 (42.1)	2141 (3190)	319	402

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Copper Filled, 15kV 100% I.L., 175-mils Series E9JK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9HKT-025B01CA00	2	0.280 (7.1)	0.68 (17.3)	6 x 14	0.055 (1.40)	0.98 (24.9)	577 (860)	162	224
E9HKT-015B01CA00	1	0.319 (8.1)	0.72 (18.3)	7 x 14	0.055 (1.40)	1.03 (26.2)	660 (983)	184	252
E9HKT-1A5B01CA00	1/0	0.358 (9.1)	0.76 (19.3)	9 x 14	0.055 (1.40)	1.06 (26.9)	772 (1151)	210	284
E9HKT-2A5B01CA00	2/0	0.401 (10.2)	0.80 (20.4)	11 x 14	0.055 (1.40)	1.11 (28.2)	904 (1346)	238	317
E9HKT-3A5B01CA00	3/0	0.451 (11.5)	0.85 (21.7)	14 x 14	0.055 (1.40)	1.16 (29.5)	1072 (1597)	271	351
E9HKT-4A5B01CA00	4/0	0.507 (12.9)	0.91 (23.1)	18 x 14	0.055 (1.40)	1.21 (30.7)	1284 (1914)	307	385
E9HKT-A15B01CA00	250	0.552 (14.0)	0.97 (24.5)	21 x 14	0.055 (1.40)	1.29 (32.8)	1474 (2206)	336	410
E9HKT-A35B01CA00	350	0.654 (16.6)	1.07 (27.1)	29 x 14	0.055 (1.40)	1.39 (35.4)	1984 (2956)	400	457
E9HKT-A65B01CA00	500	0.781 (19.8)	1.20 (30.4)	26 x 12	0.055 (1.40)	1.57 (39.9)	2739 (4081)	471	501
E9HKT-B25B01CA00	750	0.958 (24.3)	1.39 (35.2)	25 x 10	0.055 (1.40)	1.79 (45.5)	3990 (5946)	548	559
E9HKT-B55B01CA00	1000	1.106 (28.1)	1.53 (38.9)	32 X 10	0.080 (2.04)	2.08 (52.9)	5,158 (7,687)	596	669
Full Neutral									
E9HKM-025B01CA00	2	0.280 (7.1)	0.68 (17.3)	16 x 14	0.055 (1.40)	0.98 (24.9)	696 (1036)	158	217
E9HKM-015B01CA00	1	0.319 (8.1)	0.72 (18.3)	20 x 14	0.055 (1.40)	1.03 (26.2)	847 (1262)	182	246
E9HKM-1A5B01CA00	1/0	0.358 (9.1)	0.76 (19.3)	25 x 14	0.055 (1.40)	1.06 (26.9)	992 (1479)	207	279
E9HKM-2A5B01CA00	2/0	0.401 (10.2)	0.80 (20.4)	32 x 14	0.055 (1.40)	1.11 (28.2)	1220 (1818)	237	317
E9HKM-3A5B01CA00	3/0	0.451 (11.5)	0.85 (21.7)	25 x 14	0.055 (1.40)	1.16 (29.5)	1445 (2153)	270	359
E9HKM-4A5B01CA00	4/0	0.507 (12.9)	0.91 (23.1)	32 x 12	0.055 (1.40)	1.21 (30.7)	1758 (2620)	307	407

Copper Filled, 15kV 133% I.L., 220-mils Series E9JK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9JKT-025B01CA00	2	0.280 (7.1)	0.77 (19.6)	6 x 14	0.055 (1.40)	1.08 (27.4)	638 (950)	162	224
E9JKT-015B01CA00	1	0.319 (8.1)	0.81 (20.6)	7 x 14	0.055 (1.40)	1.12 (28.4)	723 (1077)	184	252
E9JKT-1A5B01CA00	1/0	0.358 (9.1)	0.85 (21.6)	9 x 14	0.055 (1.40)	1.15 (29.2)	837 (1247)	210	284
E9JKT-2A5B01CA00	2/0	0.401 (10.2)	0.89 (22.7)	11 x 14	0.055 (1.40)	1.20 (30.5)	971 (1446)	238	317
E9JKT-3A5B01CA00	3/0	0.451 (11.5)	0.94 (23.9)	14 x 14	0.055 (1.40)	1.25 (31.8)	1142 (1702)	271	351
E9JKT-4A5B01CA00	4/0	0.507 (12.9)	1.00 (25.4)	18 x 14	0.055 (1.40)	1.30 (33.0)	1358 (2023)	307	385
E9JKT-A15B01CA00	250	0.552 (14.0)	1.06 (26.8)	21 x 14	0.055 (1.40)	1.38 (35.1)	1572 (2342)	336	410
E9JKT-A35B01CA00	350	0.654 (16.6)	1.16 (29.4)	29 x 14	0.055 (1.40)	1.48 (37.7)	2070 (3083)	400	457
E9JKT-A65B01CA00	500	0.781 (19.8)	1.29 (32.6)	26 x 12	0.055 (1.40)	1.66 (42.2)	2902 (4324)	471	5001
E9JKT-B25B01CA00	750	0.958 (24.3)	1.48 (37.5)	25 x 10	0.080 (2.04)	1.90 (48.3)	4102 (6113)	548	559
E9JKT-B55B01CA00	1000	1.106 (28.1)	1.62 (41.2)	32 X 10	0.080 (2.04)	2.02 (51.4)	5,281 (6,364)	596	669
Full Neutral									
E9JKM-025B01CA00	2	0.280 (7.1)	0.77 (19.6)	16 x 14	0.055 (1.40)	1.07 (27.2)	638 (950)	162	224
E9JKM-015B01CA00	1	0.319 (8.1)	0.81 (20.6)	20 x 14	0.055 (1.40)	1.12 (28.4)	723 (1077)	184	252
E9JKM-1A5B01CA00	1/0	0.358 (9.1)	0.85 (21.6)	25 x 14	0.055 (1.40)	1.15 (29.2)	837 (1247)	210	284
E9JKM-2A5B01CA00	2/0	0.401 (10.2)	0.89 (22.7)	32 x 14	0.055 (1.40)	1.19 (30.3)	971 (1446)	238	317
E9JKM-3A5B01CA00	3/0	0.451 (11.5)	0.94 (23.9)	25 x 14	0.055 (1.40)	1.26 (32.0)	1142 (1702)	271	351
E9JKM-4A5B01CA00	4/0	0.507 (12.9)	1.00 (25.4)	32 x 12	0.055 (1.40)	1.30 (33.0)	1358 (2023)	307	385

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Copper Filled, 25kV 100% I.L., 260-mils Series E9KK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9KKT-015B01CA00	1	0.319 (8.1)	0.89 (22.6)	7 x 14	0.055 (1.40)	1.20 (30.5)	783 (1167)	187	249
E9KKT-1A5B01CA00	1/0	0.358 (9.1)	0.93 (23.6)	9 x 14	0.055 (1.40)	1.23 (31.2)	900 (1340)	213	281
E9KKT-2A5B01CA00	2/0	0.401 (10.2)	0.97 (24.6)	11 x 14	0.055 (1.40)	1.28 (32.5)	1035 (1542)	242	314
E9KKT-3A5B01CA00	3/0	0.451 (11.5)	1.02 (25.9)	14 x 14	0.055 (1.40)	1.35 (34.3)	1230 (1833)	275	349
E9KKT-4A5B01CA00	4/0	0.507 (12.9)	1.08 (27.4)	18 x 14	0.055 (1.40)	1.41 (35.8)	1449 (2159)	311	384
E9KKT-A15B01CA00	250	0.552 (14.0)	1.14 (29.0)	21 x 14	0.055 (1.40)	1.46 (37.1)	1646 (2453)	341	410
E9KKT-A35B01CA00	350	0.654 (16.6)	1.24 (31.5)	29 x 14	0.055 (1.40)	1.56 (39.5)	2151 (3205)	405	460
E9KKT-A65B01CA00	500	0.781 (19.8)	1.37 (34.8)	26 x 12	0.055 (1.40)	1.79 (45.5)	2995 (4463)	475	504
E9KKT-B25B01CA00	750	0.958 (24.3)	1.56 (39.6)	25 x 10	0.080 (2.04)	2.01 (51.1)	4253 (6337)	556	567
E9KKT-B55B01CA00	1000	1.106 (28.1)	1.71 (43.4)	32 X 10	0.080 (2.04)	2.20 (55.9)	5,395 (8,039)	603	620
Full Neutral									
E9KKM-015B01CA00	1	0.319 (8.1)	0.89 (22.6)	20 x 14	0.055 (1.40)	1.19 (30.3)	973 (1449)	187	246
E9KKM-1A5B01CA00	1/0	0.358 (9.1)	0.93 (23.6)	25 x 14	0.055 (1.40)	1.23 (31.2)	1123 (1673)	212	279
E9KKM-2A5B01CA00	2/0	0.401 (10.2)	0.97 (24.6)	32 x 14	0.055 (1.40)	1.27 (32.3)	1360 (2026)	243	317
E9KKM-3A5B01CA00	3/0	0.451 (11.5)	1.02 (25.9)	25 x 14	0.055 (1.40)	1.35 (34.2)	1613 (2403)	276	359
E9KKM-4A5B01CA00	4/0	0.507 (12.9)	1.08 (27.4)	32 x 12	0.055 (1.40)	1.41 (35.8)	1937 (2887)	314	406

Copper Filled, 35kV 100% I.L., 345-mils Series E9MK

PART NUMBERS AND PHYSICAL CHARACTERISTICS

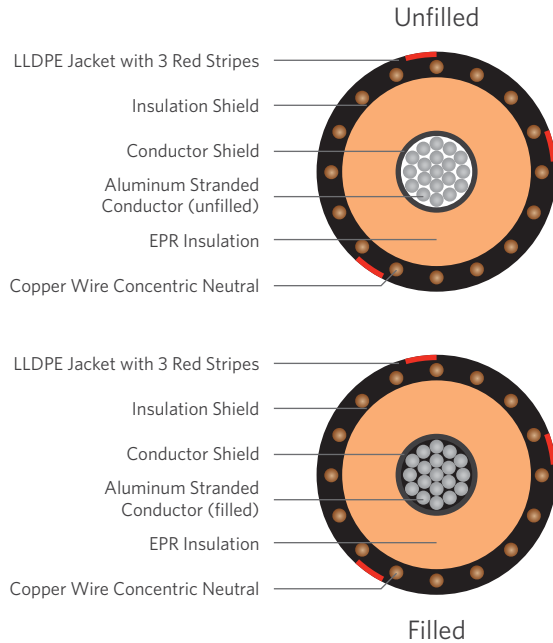
Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9MKT-1A5B01CA00	1/0	0.358 (9.1)	1.10 (27.9)	9 x 14	0.055 (1.40)	1.40 (35.6)	1071 (1596)	216	278
E9MKT-2A5B01CA00	2/0	0.401 (10.2)	1.15 (29.2)	11 x 14	0.055 (1.40)	1.47 (37.3)	1212 (1805)	245	311
E9MKT-3A5B01CA00	3/0	0.451 (11.5)	1.20 (30.5)	14 x 14	0.055 (1.40)	1.52 (38.6)	1392 (2075)	278	347
E9MKT-4A5B01CA00	4/0	0.507 (12.9)	1.26 (32.0)	18 x 14	0.055 (1.40)	1.58 (40.1)	1618 (2410)	314	383
E9MKT-A15B01CA00	250	0.552 (14.0)	1.31 (33.3)	21 x 14	0.055 (1.40)	1.70 (43.2)	1885 (2809)	344	409
E9MKT-A35B01CA00	350	0.654 (16.6)	1.41 (35.8)	29 x 14	0.055 (1.40)	1.78 (45.1)	2410 (3591)	408	461
E9MKT-A65B01CA00	500	0.781 (19.8)	1.54 (39.1)	26 x 12	0.080 (2.04)	1.94 (49.2)	3258 (4854)	480	510
E9MKT-B25B01CA00	750	0.958 (24.3)	1.73 (43.9)	25 x 10	0.080 (2.04)	2.18 (55.4)	4498 (6702)	561	573
E9MKT-B55B01CA00	1000	1.106 (28.1)	1.106 (28.1)	32 X 10	0.080 (2.04)	2.37 (60.2)	5,579 (8,313)	603	620
Full Neutral									
E9MKM-1A5B01CA00	1/0	0.358 (9.1)	1.10 (27.9)	25 x 14	0.055 (1.40)	1.40 (35.6)	1299 (1936)	217	278
E9MKM-2A5B01CA00	2/0	0.401 (10.2)	1.15 (29.2)	32 x 14	0.055 (1.40)	1.48 (37.7)	1546 (2304)	248	316
E9MKM-3A5B01CA00	3/0	0.451 (11.5)	1.20 (30.5)	25 x 14	0.055 (1.40)	1.53 (38.9)	1784 (2658)	281	358
E9MKM-4A5B01CA00	4/0	0.507 (12.9)	1.26 (32.0)	32 x 12	0.055 (1.40)	1.66 (42.1)	2184 (3254)	319	402

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

EPR/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV

Series E9 (Aluminum Conductors)



PRODUCT DESCRIPTION

The Medium Voltage Primary Underground Distribution (UD) cables consist of an Aluminum (filled or unfilled) conductor, covered with ethylene propylene rubber (EPR), a concentric neutral of helically applied copper wires, and a linear low-density polyethylene (LLDPE) jacket with 3 extruded red stripes.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent resistance to treeing
- Jacket is sunlight-resistant
- Designed to operate continuously at a conductor temperature not exceeding
 - » 105°C for normal operations
 - » 140°C for emergency overload
 - » 250°C for short circuit

MARKETS



SPECIFICATIONS

Conductor Count	1 conductor
Conductor	Aluminum 1350 compressed lay stranded Class B (filled or unfilled)
Gauge Sizes	Filled: Available in 2 AWG through 1,250 kcmil Unfilled: Available in 2 AWG through 1,250 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Neutral	Helically applied, annealed, solid bare copper wires
Jacket	Linear Low-Density Polyethylene (LLDPE)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (KCMIL) AL or CU 1/C XXXKV XXX% INSUL LEVEL XXXMILS EPR AA X #BB LLDPE JKT TYPE MV-90 (UL) MADE IN USA MMDDYYYY (LIGHTNING BOLT)
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B-3 ASTM B-230 ASTM B-231 ICEA S-94-649 ICEA T-31-610 (water block compliance) AIEC CS8 UL 1072 (MV-90) RUS U1

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Neutral Options	Jacket
Al	Filled B or B	MV	EPR	RCN or FCN	LLDPE

Aluminum Unfilled, 15kV 133% I.L., 220-mils Series E9JP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9JPT-023F01CA00	2	0.280 (7.1)	0.77 (19.6)	6 x 14	0.055 (1.40)	1.08 (27.4)	486 (723)	135	155
E9JPT-013F01CA00	1	0.319 (8.1)	0.81 (20.6)	6 x 14	0.055 (1.40)	1.12 (28.4)	521 (775)	155	175
E9JPT-1A3F01CA00	1/0	0.358 (9.1)	0.85 (21.6)	6 x 14	0.055 (1.40)	1.16 (29.5)	563 (838)	175	200
E9JPT-2A3F01CA00	2/0	0.401 (10.2)	0.89 (22.7)	7 x 14	0.055 (1.40)	1.20 (30.5)	624 (929)	200	230
E9JPT-3A3F01CA00	3/0	0.451 (11.5)	0.94 (23.9)	9 x 14	0.055 (1.40)	1.25 (31.8)	707 (1,052)	230	260
E9JPT-4A3F01CA00	4/0	0.507 (12.9)	1.00 (25.4)	11 x 14	0.055 (1.40)	1.31 (33.3)	803 (1,195)	240	290
E9JPT-A13F01CA00	250	0.552 (14.0)	1.06 (26.8)	13 x 14	0.055 (1.40)	1.38 (35.1)	917 (1,365)	260	320
E9JPT-A33F01CA00	350	0.654 (16.6)	1.16 (29.4)	18 x 14	0.055 (1.40)	1.48 (37.6)	1,130 (1,682)	320	380
E9JPT-A63F01CA00	500	0.781 (19.8)	1.29 (32.6)	25 x 14	0.055 (1.40)	1.71 (43.4)	1,534 (2,283)	385	455
E9JPT-B23F01CA00	750	0.958 (24.3)	1.48 (37.5)	24 x 12	0.080 (2.04)	1.90 (48.3)	2,043 (3,040)	470	555
E9JPT-B53F01CA00	1000	1.106 (28.1)	1.62 (41.2)	31 x 12	0.080 (2.04)	2.12 (53.8)	2,626 (3,908)	550	645
Full Neutral									
E9JPM-023F01CA00	2	0.280 (7.1)	0.77 (19.6)	10 x 14	0.055 (1.40)	1.08 (27.4)	532 (791)	130	180
E9JPM-013F01CA00	1	0.319 (8.1)	0.81 (20.6)	13 x 14	0.055 (1.40)	1.12 (28.4)	603 (897)	150	205
E9JPM-1A3F01CA00	1/0	0.358 (9.1)	0.85 (21.6)	16 x 14	0.055 (1.40)	1.15 (29.3)	677 (1,007)	170	235
E9JPM-2A3F01CA00	2/0	0.401 (10.2)	0.89 (22.6)	20 x 14	0.055 (1.40)	1.21 (30.7)	790 (1,176)	200	270
E9JPM-3A3F01CA00	3/0	0.451 (11.5)	0.94 (23.9)	25 x 14	0.055 (1.40)	1.26 (32.0)	907 (1,349)	225	305
E9JPM-4A3F01CA00	4/0	0.507 (12.9)	1.00 (25.4)	32 x 14	0.055 (1.40)	1.35 (34.4)	1,095 (1,629)	260	650

Aluminum Unfilled, 25kV 100% I.L., 260-mils Series E9KP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9KPT-013F01CA00	1	0.319 (8.1)	0.89 (22.6)	6 x 14	0.055 (1.40)	1.20 (30.5)	580 (863)	155	175
E9KPT-1A3F01CA00	1/0	0.358 (9.1)	0.93 (23.6)	6 x 14	0.055 (1.40)	1.24 (31.5)	624 (929)	175	200
E9KPT-2A3F01CA00	2/0	0.401 (10.2)	0.97 (24.6)	7 x 14	0.055 (1.40)	1.28 (32.5)	687 (1,022)	200	230
E9KPT-3A3F01CA00	3/0	0.451 (11.5)	1.02 (25.9)	9 x 14	0.055 (1.40)	1.35 (34.3)	793 (1,180)	230	260
E9KPT-4A3F01CA00	4/0	0.507 (12.9)	1.08 (27.4)	11 x 14	0.055 (1.40)	1.41 (35.8)	892 (1,327)	245	290
E9KPT-A13F01CA00	250	0.552 (14.0)	1.14 (29.0)	13 x 14	0.055 (1.40)	1.46 (37.1)	990 (1,473)	265	315
E9KPT-A33F01CA00	350	0.654 (16.6)	1.24 (31.5)	18 x 14	0.055 (1.40)	1.56 (39.6)	1,208 (1,798)	325	375
E9KPT-A63F01CA00	500	0.781 (19.8)	1.37 (34.8)	25 x 14	0.055 (1.40)	1.79 (45.5)	1,623 (2,415)	390	450
E9KPT-B23F01CA00	750	0.958 (24.3)	1.56 (39.6)	24 x 12	0.080 (2.04)	2.01 (51.1)	2,187 (3,255)	480	550
E9KPT-B53F01CA00	1000	1.106 (28.1)	1.71 (43.4)	31 x 12	0.080 (2.04)	2.20 (55.9)	2,736 (4,072)	565	640
Full Neutral									
E9KPM-013F01CA00	1	0.319 (8.1)	0.89 (22.6)	13 x 14	0.055 (1.40)	1.19 (30.3)	658 (978)	135	185
E9KPM-1A3F01CA00	1/0	0.358 (9.1)	0.93 (23.6)	16 x 14	0.055 (1.40)	1.23 (31.2)	733 (1,091)	150	210
E9KPM-2A3F01CA00	2/0	0.401 (10.2)	0.97 (24.6)	20 x 14	0.055 (1.40)	1.29 (32.7)	850 (1,265)	175	240
E9KPM-3A3F01CA00	3/0	0.451 (11.5)	1.02 (25.9)	25 x 14	0.055 (1.40)	1.35 (34.2)	980 (1,458)	200	270
E9KPM-4A3F01CA00	4/0	0.507 (12.9)	1.08 (27.4)	32 x 14	0.055 (1.40)	1.45 (36.8)	1,184 (1,761)	225	305

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Aluminum Unfilled, 35kV 100% I.L., 345-mils Series E9MP

PART NUMBERS AND PHYSICAL CHARACTERISTICS									
Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9MPT-1A3F01CA00	1/0	0.358 (9.1)	1.10 (27.9)	6 x 14	0.055 (1.40)	1.43 (36.3)	792 (1,179)	175	200
E9MPT-2A3F01CA00	2/0	0.401 (10.2)	1.15 (29.2)	7 x 14	0.055 (1.40)	1.47 (37.3)	861 (1,281)	200	230
E9MPT-3A3F01CA00	3/0	0.451 (11.5)	1.20 (30.5)	9 x 14	0.055 (1.40)	1.52 (38.6)	952 (1,417)	230	260
E9MPT-4A3F01CA00	4/0	0.507 (12.9)	1.26 (32.0)	11 x 14	0.055 (1.40)	1.58 (40.1)	1058 (1,574)	245	290
E9MPT-A13F01CA00	250	0.552 (14.0)	1.31 (33.3)	13 x 14	0.055 (1.40)	1.70 (43.2)	1,224 (1,822)	265	315
E9MPT-A33F01CA00	350	0.654 (16.6)	1.41 (35.8)	18 x 14	0.055 (1.40)	1.80 (45.7)	1,457 (2,168)	325	375
E9MPT-A63F01CA00	500	0.781 (19.8)	1.54 (39.1)	25 x 14	0.080 (2.04)	1.99 (50.5)	1,875 (2,790)	390	450
E9MPT-B23F01CA00	750	0.958 (24.3)	1.73 (43.9)	24 x 12	0.080 (2.04)	2.18 (55.4)	2,419 (3,600)	480	550
E9MPT-B53F01CA00	1000	1.106 (28.1)	1.88 (47.8)	31 x 12	0.080 (2.04)	2.37 (60.2)	2,989 (4,448)	565	640
Full Neutral									
E9MPM-1A3F01CA00	1/0	0.358 (9.1)	1.10 (27.9)	16 x 14	0.055 (1.40)	1.42 (36.1)	899 (1,338)	150	210
E9MPM-2A3F01CA00	2/0	0.401 (10.2)	1.15 (29.2)	20 x 14	0.055 (1.40)	1.48 (37.7)	1,024 (1,524)	175	240
E9MPM-3A3F01CA00	3/0	0.451 (11.5)	1.20 (30.5)	25 x 14	0.055 (1.40)	1.53 (38.9)	1,148 (1,708)	200	275
E9MPM-4A3F01CA00	4/0	0.507 (12.9)	1.26 (32.0)	32 x 14	0.055 (1.40)	1.66 (42.1)	1,385 (2,060)	225	305

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.
²Ampacities: 1/3 Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Aluminum Filled, 15kV 133% I.L., 220-mils Series E9JP

PART NUMBERS AND PHYSICAL CHARACTERISTICS									
Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9JPT-026F01CA00	2	0.280 (7.1)	0.77 (19.6)	6 x 14	0.055 (1.40)	1.08 (27.4)	487 (725)	135	155
E9JPT-016F01CA00	1	0.319 (8.1)	0.81 (20.6)	6 x 14	0.055 (1.40)	1.12 (28.4)	522 (777)	155	175
E9JPT-1A6F01CA00	1/0	0.358 (9.1)	0.85 (21.6)	6 x 14	0.055 (1.40)	1.16 (29.5)	564 (839)	175	200
E9JPT-2A6F01CA00	2/0	0.401 (10.2)	0.89 (22.7)	7 x 14	0.055 (1.40)	1.20 (30.5)	625 (930)	200	230
E9JPT-3A6F01CA00	3/0	0.451 (11.5)	0.94 (23.9)	9 x 14	0.055 (1.40)	1.25 (31.8)	708 (1,054)	230	260
E9JPT-4A6F01CA00	4/0	0.507 (12.9)	1.00 (25.4)	11 x 14	0.055 (1.40)	1.31 (33.3)	805 (1,197)	240	290
E9JPT-A16F01CA00	250	0.552 (14.0)	1.06 (26.8)	13 x 14	0.055 (1.40)	1.38 (35.1)	919 (1,367)	260	320
E9JPT-A36F01CA00	350	0.654 (16.6)	1.16 (29.4)	18 x 14	0.055 (1.40)	1.48 (37.6)	1,132 (1,685)	320	380
E9JPT-A66F01CA00	500	0.781 (19.8)	1.29 (32.6)	25 x 14	0.055 (1.40)	1.71 (43.4)	1,537 (2,287)	385	455
E9JPT-B26F01CA00	750	0.958 (24.3)	1.48 (37.5)	24 x 12	0.080 (2.04)	1.90 (48.3)	2,047 (3,046)	470	555
E9JPT-B56F01CA00	1000	1.106 (28.1)	1.62 (41.2)	31 x 12	0.080 (2.04)	2.12 (53.8)	2,632 (3,915)	550	645
Full Neutral									
E9JPM-026F01CA00	2	0.280 (7.1)	0.77 (19.6)	10 x 14	0.055 (1.40)	1.08 (27.4)	533 (793)	130	180
E9JPM-016F01CA00	1	0.319 (8.1)	0.81 (20.6)	13 x 14	0.055 (1.40)	1.12 (28.4)	604 (899)	150	205
E9JPM-1A6F01CA00	1/0	0.358 (9.1)	0.85 (21.6)	16 x 14	0.055 (1.40)	1.15 (29.3)	678 (1,009)	170	235
E9JPM-2A6F01CA00	2/0	0.401 (10.2)	0.89 (22.6)	20 x 14	0.055 (1.40)	1.21 (30.7)	792 (1,178)	200	270
E9JPM-3A6F01CA00	3/0	0.451 (11.5)	0.94 (23.9)	25 x 14	0.055 (1.40)	1.26 (32.0)	909 (1,352)	225	305
E9JPM-4A6F01CA00	4/0	0.507 (12.9)	1.00 (25.4)	32 x 14	0.055 (1.40)	1.35 (34.4)	1,097 (1,632)	260	650

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.
²Ampacities: 1/3 Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Aluminum Filled, 25kV 100% I.L., 260-mils Series E9KP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9KPT-016F01CA00	1	0.319 (8.1)	0.89 (22.6)	6 x 14	0.055 (1.40)	1.20 (30.5)	581 (865)	155	175
E9KPT-1A6F01CA00	1/0	0.358 (9.1)	0.93 (23.6)	6 x 14	0.055 (1.40)	1.24 (31.5)	625 (930)	175	200
E9KPT-2A6F01CA00	2/0	0.401 (10.2)	0.97 (24.6)	7 x 14	0.055 (1.40)	1.28 (32.5)	688 (1,024)	200	230
E9KPT-3A6F01CA00	3/0	0.451 (11.5)	1.02 (25.9)	9 x 14	0.055 (1.40)	1.35 (34.3)	795 (1,182)	230	260
E9KPT-4A6F01CA00	4/0	0.507 (12.9)	1.08 (27.4)	11 x 14	0.055 (1.40)	1.41 (35.8)	894 (1,330)	245	290
E9KPT-A16F01CA00	250	0.552 (14.0)	1.14 (29.0)	13 x 14	0.055 (1.40)	1.46 (37.1)	992 (1,476)	265	315
E9KPT-A36F01CA00	350	0.654 (16.6)	1.24 (31.5)	18 x 14	0.055 (1.40)	1.56 (39.6)	1,211 (1,801)	325	375
E9KPT-A66F01CA00	500	0.781 (19.8)	1.37 (34.8)	25 x 14	0.055 (1.40)	1.79 (45.5)	1,626 (2,420)	390	450
E9KPT-B26F01CA00	750	0.958 (24.3)	1.56 (39.6)	24 x 12	0.080 (2.04)	2.01 (51.1)	2,192 (3,260)	480	550
E9KPT-B56F01CA00	1000	1.106 (28.1)	1.71 (43.4)	31 x 12	0.080 (2.04)	2.20 (55.9)	2,742 (4,079)	565	640
Full Neutral									
E9KPM-016F01CA00	1	0.358 (9.1)	0.89 (22.6)	13 x 14	0.055 (1.40)	1.19 (30.3)	659 (981)	135	185
E9KPM-1A6F01CA00	1/0	0.401 (10.2)	0.93 (23.6)	16 x 14	0.055 (1.40)	1.23 (31.2)	735 (1,093)	150	210
E9KPM-2A6F01CA00	2/0	0.451 (11.5)	0.97 (24.6)	20 x 14	0.055 (1.40)	1.29 (32.7)	852 (1,267)	175	240
E9KPM-3A6F01CA00	3/0	0.507 (12.9)	1.02 (25.9)	25 x 14	0.055 (1.40)	1.35 (34.2)	982 (1,461)	200	270
E9KPM-4A6F01CA00	4/0	0.552 (14.0)	1.08 (27.4)	32 x 14	0.055 (1.40)	1.45 (36.8)	1,186 (1,765)	225	305
E9KPM-4A6F01CA00	4/0	0.512 (13.0)	1.00 (25.4)	32 x 14	0.050 (1.27)	1.35 (34.4)	1,095 (1,629)	260	650

Aluminum Filled, 35kV 100% I.L., 345-mils Series E9MP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

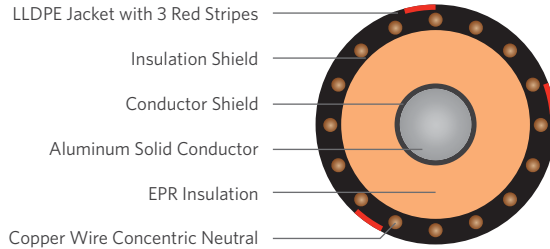
Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9MPT-1A6F01CA00	1/0	0.358 (9.1)	1.10 (27.9)	6 x 14	0.055 (1.40)	1.43 (36.3)	794 (1,181)	175	200
E9MPT-2A6F01CA00	2/0	0.401 (10.2)	1.15 (29.2)	7 x 14	0.055 (1.40)	1.47 (37.3)	863 (1,284)	200	230
E9MPT-3A6F01CA00	3/0	0.451 (11.5)	1.20 (30.5)	9 x 14	0.055 (1.40)	1.52 (38.6)	954 (1,419)	230	260
E9MPT-4A6F01CA00	4/0	0.507 (12.9)	1.26 (32.0)	11 x 14	0.055 (1.40)	1.58 (40.1)	1,060 (1,577)	245	290
E9MPT-A16F01CA00	250	0.552 (14.0)	1.31 (33.3)	13 x 14	0.055 (1.40)	1.70 (43.2)	1,227 (1,825)	265	315
E9MPT-A36F01CA00	350	0.654 (16.6)	1.41 (35.8)	18 x 14	0.055 (1.40)	1.80 (45.7)	1,460 (2,172)	325	375
E9MPT-A66F01CA00	500	0.781 (19.8)	1.54 (39.1)	25 x 14	0.080 (2.04)	1.99 (50.5)	1,879 (2,795)	390	450
E9MPT-B26F01CA00	750	0.958 (24.3)	1.73 (43.9)	24 x 12	0.080 (2.04)	2.18 (55.4)	2,424 (3,606)	480	550
E9MPT-B56F01CA00	1000	1.106 (28.1)	1.88 (47.8)	31 x 12	0.080 (2.04)	2.37 (60.2)	2,995 (4,456)	565	640
Full Neutral									
E9MPM-1A6F01CA00	1/0	0.401 (10.2)	1.10 (27.9)	16 x 14	0.055 (1.40)	1.42 (36.1)	901 (1,340)	150	210
E9MPM-2A6F01CA00	2/0	0.451 (11.5)	1.15 (29.2)	20 x 14	0.055 (1.40)	1.48 (37.7)	1,026 (1,527)	175	240
E9MPM-3A6F01CA00	3/0	0.507 (12.9)	1.20 (30.5)	25 x 14	0.055 (1.40)	1.53 (38.9)	1,150 (1,711)	200	275
E9MPM-4A6F01CA00	4/0	0.552 (14.0)	1.26 (32.0)	32 x 14	0.055 (1.40)	1.66 (42.1)	1,388 (2,065)	225	305

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

EPR/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV

Series E9 (Aluminum Solid Conductor)



LLDPE Jacket with 3 Red Stripes

Insulation Shield

Conductor Shield

Aluminum Solid Conductor

EPR Insulation

Copper Wire Concentric Neutral

PRODUCT DESCRIPTION

The Medium Voltage Primary Underground Distribution (UD) cables consist of an Aluminum Solid conductor, covered with ethylene propylene rubber (EPR), a concentric neutral of helically applied copper wires, and a linear low-density polyethylene (LLDPE) jacket with 3 extruded red stripes.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent resistance to treeing
- Jacket is sunlight-resistant
- Designed to operate continuously at a conductor temperature not exceeding
 - » 105°C for normal operations
 - » 140°C for emergency overload
 - » 250°C for short circuit

MARKETS



SPECIFICATIONS

Conductor Count	1 conductor
Conductor	Aluminum 1350 Solid
Gauge Sizes	Available in 2 AWG through 4/0AWG
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Neutral	Helically applied, annealed, solid bare copper wires
Jacket	Linear Low-Density Polyethylene (LLDPE)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (KCMIL) AL SOL 1/C XXXV XXX% INSUL LEVEL XXXMILS EPR AA X #BB LLDPE JKT TYPE MV-90 (UL) MADE IN USA MMDDYYYY (LIGHTNING BOLT)
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B-3 ASTM B-230 ASTM B-609 ICEA S-94-649 AEIC CS8 UL 1072 (MV-90) RUS U1

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Neutral Options	Jacket
Al	Solid	MV	EPR	RCN or FCN	LLDPE

Aluminum Solid, 15kV 133% I.L., 220-mils Series E9JPT

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9JPT-023S01CA00	2	0.258 (6.6)	0.745 (19.0)	6 x 14	0.055 (1.40)	1.055 (27.0)	485 (721)	135	155
E9JPT-013S01CA00	1	0.289 (7.4)	0.777 (19.9)	6 x 14	0.055 (1.40)	1.087 (27.8)	520 (773)	155	175
E9JPT-1A3S01CA00	1/0	0.325 (8.3)	0.813 (20.8)	6 x 14	0.055 (1.40)	1.123 (28.7)	561 (835)	175	200
E9JPT-2A3S01CA00	2/0	0.365 (9.3)	0.850 (21.7)	7 x 14	0.055 (1.40)	1.160 (29.7)	622 (925)	200	230
E9JPT-3A3S01CA00	3/0	0.410 (10.4)	0.894 (22.9)	9 x 14	0.055 (1.40)	1.204 (30.8)	704 (1047)	230	260
E9JPT-4A3S01CA00	4/0	0.460 (11.7)	0.948 (24.3)	11 x 14	0.055 (1.40)	1.258 (32.2)	799 (1189)	240	290
Full Neutral									
E9JPM-023S01CA00	2	0.258 (6.6)	0.745 (19.0)	9 x 14	0.055 (1.40)	1.055 (27.0)	531 (790)	130	180
E9JPM-013S01CA00	1	0.289 (7.4)	0.777 (19.9)	13 x 14	0.055 (1.40)	1.087 (27.8)	602 (895)	150	205
E9JPM-1A3S01CA00	1/0	0.325 (8.3)	0.813 (20.8)	16 x 14	0.055 (1.40)	1.123 (28.7)	675 (1004)	170	235
E9JPM-2A3S01CA00	2/0	0.365 (9.3)	0.850 (21.7)	20 x 14	0.055 (1.40)	1.160 (29.7)	788 (1172)	200	270
E9JPM-3A3S01CA00	3/0	0.410 (10.4)	0.894 (22.9)	25 x 14	0.055 (1.40)	1.204 (30.8)	904 (1345)	225	305
E9JPM-4A3S01CA00	4/0	0.460 (11.7)	0.948 (24.3)	32 x 14	0.055 (1.40)	1.258 (32.2)	1091 (1623)	260	650

Aluminum Solid, 25kV 100% I.L., 260-mils Series E9KPT

PART NUMBERS AND PHYSICAL CHARACTERISTICS

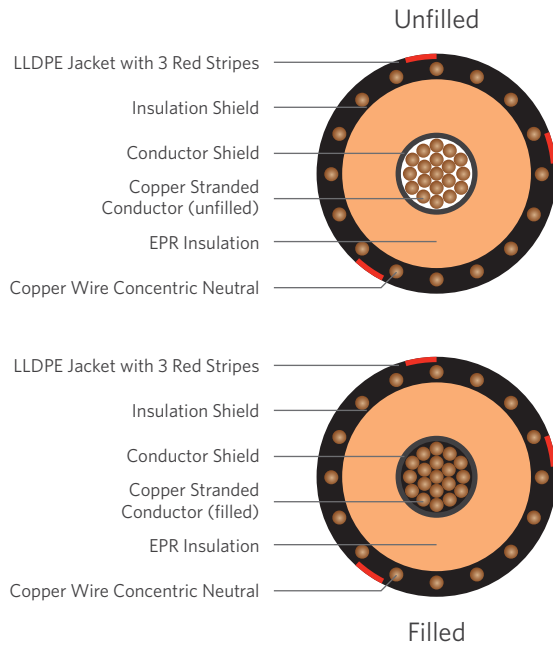
Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9KPT-013S01CA00	1	0.289 (7.4)	0.857 (21.9)	6 x 14	0.055 (1.40)	1.167 (29.9)	579 (861)	155	175
E9KPT-1A3S01CA00	1/0	0.325 (8.3)	0.893 (22.8)	6 x 14	0.055 (1.40)	1.203 (30.8)	622 (926)	175	200
E9KPT-2A3S01CA00	2/0	0.365 (9.3)	0.930 (23.8)	7 x 14	0.055 (1.40)	1.240 (31.7)	685 (1018)	200	230
E9KPT-3A3S01CA00	3/0	0.410 (10.4)	0.974 (24.9)	9 x 14	0.055 (1.40)	1.304 (33.3)	790 (1175)	230	260
E9KPT-4A3S01CA00	4/0	0.460 (11.7)	1.028 (26.3)	11 x 14	0.055 (1.40)	1.358 (34.7)	888 (1321)	245	290
Full Neutral									
E9KPM-013S01CA00	1	0.289 (7.4)	0.857 (21.9)	13 x 14	0.055 (1.40)	1.157 (29.6)	657 (977)	135	185
E9KPM-1A3S01CA00	1/0	0.325 (8.3)	0.893 (22.8)	16 x 14	0.055 (1.40)	1.193 (30.5)	731 (1088)	150	210
E9KPM-2A3S01CA00	2/0	0.365 (9.3)	0.930 (23.8)	20 x 14	0.055 (1.40)	1.250 (32.0)	848 (1261)	175	240
E9KPM-3A3S01CA00	3/0	0.410 (10.4)	0.974 (24.9)	25 x 14	0.055 (1.40)	1.304 (33.3)	977 (1454)	200	270
E9KPM-4A3S01CA00	4/0	0.460 (11.7)	1.028 (26.3)	32 x 14	0.055 (1.40)	1.398 (35.8)	1180 (1756)	225	305

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

EPR/CN/LLDPE Power, Type MV-90 Primary UD, 15kV-35kV

Series E9 (Copper Conductors)



PRODUCT DESCRIPTION

The Medium Voltage Primary Underground Distribution (UD) cables consist of a Copper (filled or unfilled) conductor, covered with ethylene propylene rubber (EPR), a concentric neutral of helically applied copper wires, and a linear low-density polyethylene (LLDPE) jacket with 3 extruded red stripes.

APPLICATIONS

- Suitable for underground primary power applications
- For wet or dry locations
- For direct burial or in duct

FEATURES

- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent resistance to treeing
- Jacket is sunlight-resistant
- Designed to operate continuously at a conductor temperature not exceeding
 - » 105°C for normal operations
 - » 140°C for emergency overload
 - » 250°C for short circuit

MARKETS



SPECIFICATIONS

Conductor Count	1 conductor
Conductor	Fully annealed bare copper Class B compressed strand (filled or unfilled)
Gauge Sizes	Filled: Available in 2 AWG through 1000 kcmil Unfilled: Available in 2 AWG through 1000 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Neutral	Helically applied, annealed, solid bare copper wires
Jacket	Linear Low-Density Polyethylene (LLDPE)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG (KCMIL) AL or CU 1/C XXXKV XXX% INSUL LEVEL XXXMILS EPR AA X #BB LLDPE JKT MV-90 (UL) MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B-3 ICEA S-94-649 ICEA T-31-610 (water block compliance) AIEC CS8 UL 1072 (MV-90) RUS U1

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation	Neutral Options	Jacket
Cu	Filled B or B	MV	EPR	RCN or FCN	LLDPE

Copper Unfilled, 15kV 100% I.L., 175-mils Series E9HP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9HPT-021B01CA00	2	0.280 (7.1)	0.68 (17.3)	6 x 14	0.055 (1.40)	0.98 (24.9)	600 (894)	177	241
E9HPT-011B01CA00	1	0.319 (8.1)	0.72 (18.3)	7 x 14	0.055 (1.40)	1.03 (26.2)	684 (1,019)	201	272
E9HPT-1A1B01CA00	1/0	0.358 (9.1)	0.76 (19.3)	9 x 14	0.055 (1.40)	1.06 (26.9)	796 (1,186)	229	306
E9HPT-2A1B01CA00	2/0	0.401 (10.2)	0.80 (20.4)	11 x 14	0.055 (1.40)	1.11 (28.2)	928 (1,383)	260	343
E9HPT-3A1B01CA00	3/0	0.451 (11.5)	0.85 (21.7)	14 x 14	0.055 (1.40)	1.16 (29.5)	1,096 (1,633)	295	380
E9HPT-4A1B01CA00	4/0	0.507 (12.9)	0.91 (23.1)	18 x 14	0.055 (1.40)	1.21 (30.7)	1,308 (1,949)	334	418
E9HPT-A11B01CA00	250	0.552 (14.0)	0.97 (24.5)	21 x 14	0.055 (1.40)	1.29 (32.8)	1,498 (2,232)	366	445
E9HPT-A31B01CA00	350	0.654 (16.6)	1.07 (27.1)	29 x 14	0.055 (1.40)	1.39 (35.4)	2,004 (2,986)	437	498
E9HPT-A61B01CA00	500	0.781 (19.8)	1.20 (30.4)	26 x 12	0.055 (1.40)	1.57 (39.9)	2,753 (4,102)	516	547
E9HPT-B21B01CA00	750	0.958 (24.3)	1.39 (35.2)	25 x 10	0.055 (1.40)	1.79 (45.5)	3,993 (5,950)	603	610
Full Neutral									
E9HPM-021B01CA00	2	0.280 (7.1)	0.68 (17.3)	16 x 14	0.055 (1.40)	0.98 (24.9)	717 (1,068)	173	234
E9HPM-011B01CA00	1	0.319 (8.1)	0.72 (18.3)	20 x 14	0.055 (1.40)	1.03 (26.2)	867 (1,292)	199	266
E9HPM-1A1B01CA00	1/0	0.358 (9.1)	0.76 (19.3)	25 x 14	0.055 (1.40)	1.06 (26.9)	1,012 (1,508)	226	302
E9HPM-2A1B01CA00	2/0	0.401 (10.2)	0.80 (20.4)	32 x 14	0.055 (1.40)	1.11 (28.2)	1,238 (1,845)	259	342
E9HPM-3A1B01CA00	3/0	0.451 (11.5)	0.85 (21.7)	25 x 14	0.055 (1.40)	1.16 (29.5)	1,462 (2,178)	294	388
E9HPM-4A1B01CA00	4/0	0.507 (12.9)	0.91 (23.1)	32 x 12	0.055 (1.40)	1.21 (30.7)	1,774 (2,643)	335	439

Copper Unfilled, 15kV 133% I.L., 220-mils Series E9JP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9JPT-021B01CA00	2	0.280 (7.1)	0.77 (19.6)	6 x 14	0.055 (1.40)	1.08 (27.4)	670 (998)	177	241
E9JPT-011B01CA00	1	0.319 (8.1)	0.81 (20.6)	7 x 14	0.055 (1.40)	1.12 (28.4)	757 (1,128)	201	272
E9JPT-1A1B01CA00	1/0	0.358 (9.1)	0.85 (21.6)	9 x 14	0.055 (1.40)	1.15 (29.2)	872 (1,299)	229	306
E9JPT-2A1B01CA00	2/0	0.401 (10.2)	0.89 (22.7)	11 x 14	0.055 (1.40)	1.20 (30.5)	1,007 (1,500)	260	343
E9JPT-3A1B01CA00	3/0	0.451 (11.5)	0.94 (23.9)	14 x 14	0.055 (1.40)	1.25 (31.8)	1,178 (1,755)	295	380
E9JPT-4A1B01CA00	4/0	0.507 (12.9)	1.00 (25.4)	18 x 14	0.055 (1.40)	1.30 (33.0)	1,394 (2,077)	334	418
E9JPT-A11B01CA00	250	0.552 (14.0)	1.06 (26.8)	21 x 14	0.055 (1.40)	1.38 (35.1)	1,609 (2,397)	366	445
E9JPT-A31B01CA00	350	0.654 (16.6)	1.16 (29.4)	29 x 14	0.055 (1.40)	1.48 (37.7)	2,105 (3,136)	437	498
E9JPT-A61B01CA00	500	0.781 (19.8)	1.29 (32.6)	26 x 12	0.055 (1.40)	1.66 (42.2)	2,931 (4,367)	516	547
E9JPT-B21B01CA00	750	0.958 (24.3)	1.48 (37.5)	25 x 10	0.080 (2.04)	1.90 (48.3)	4,123 (6,143)	603	610
Full Neutral									
E9JPM-021B01CA00	2	0.280 (7.1)	0.77 (19.6)	16 x 14	0.055 (1.40)	1.07 (27.2)	787 (1,173)	173	234
E9JPM-011B01CA00	1	0.319 (8.1)	0.81 (20.6)	20 x 14	0.055 (1.40)	1.12 (28.4)	941 (1,402)	199	266
E9JPM-1A1B01CA00	1/0	0.358 (9.1)	0.85 (21.6)	25 x 14	0.055 (1.40)	1.15 (29.2)	1,090 (1,624)	226	302
E9JPM-2A1B01CA00	2/0	0.401 (10.2)	0.89 (22.7)	32 x 14	0.055 (1.40)	1.19 (30.3)	1,321 (1,968)	259	342
E9JPM-3A1B01CA00	3/0	0.451 (11.5)	0.94 (23.9)	25 x 14	0.055 (1.40)	1.26 (32.0)	1,549 (2,308)	294	388
E9JPM-4A1B01CA00	4/0	0.507 (12.9)	1.00 (25.4)	32 x 12	0.055 (1.40)	1.30 (33.0)	1,866 (2,780)	335	439

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Copper Unfilled, 25kV 100% I.L., 260-mils Series E9KP

PART NUMBERS AND PHYSICAL CHARACTERISTICS									
Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
⅓ Reduced Neutral									
E9KPT-011B01CA00	1	0.319 (8.1)	0.89 (22.6)	7 x 14	0.055 (1.40)	1.20 (30.5)	827 (1,232)	204	269
E9KPT-1A1B01CA00	1/0	0.358 (9.1)	0.93 (23.6)	9 x 14	0.055 (1.40)	1.23 (31.2)	945 (1,408)	232	303
E9KPT-2A1B01CA00	2/0	0.401 (10.2)	0.97 (24.6)	11 x 14	0.055 (1.40)	1.28 (32.5)	1,082 (1,612)	264	340
E9KPT-3A1B01CA00	3/0	0.451 (11.5)	1.02 (25.9)	14 x 14	0.055 (1.40)	1.35 (34.3)	1,278 (1,904)	300	378
E9KPT-4A1B01CA00	4/0	0.507 (12.9)	1.08 (27.4)	18 x 14	0.055 (1.40)	1.41 (35.8)	1,498 (2,232)	339	416
E9KPT-A11B01CA00	250	0.552 (14.0)	1.14 (29.0)	21 x 14	0.055 (1.40)	1.46 (37.1)	1,696 (2,527)	371	445
E9KPT-A31B01CA00	350	0.654 (16.6)	1.24 (31.5)	29 x 14	0.055 (1.40)	1.56 (39.5)	2,200 (3,278)	442	501
E9KPT-A61B01CA00	500	0.781 (19.8)	1.37 (34.8)	26 x 12	0.080 (2.03)	1.79 (45.5)	3,040 (4,530)	520	550
E9KPT-B21B01CA00	750	0.958 (24.3)	1.56 (39.6)	25 x 10	0.080 (2.03)	2.01 (51.1)	4,293 (6,397)	611	618
Full Neutral									
E9KPM-011B01CA00	1	0.319 (8.1)	0.89 (22.6)	20 x 14	0.055 (1.40)	1.19 (30.3)	1,013 (1,509)	204	265
E9KPM-1A1B01CA00	1/0	0.358 (9.1)	0.93 (23.6)	25 x 14	0.055 (1.40)	1.23 (31.2)	1,164 (1,734)	231	301
E9KPM-2A1B01CA00	2/0	0.401 (10.2)	0.97 (24.6)	32 x 14	0.055 (1.40)	1.27 (32.3)	1,401 (2,087)	265	342
E9KPM-3A1B01CA00	3/0	0.451 (11.5)	1.02 (25.9)	25 x 14	0.055 (1.40)	1.35 (34.2)	1,653 (2,463)	301	387
E9KPM-4A1B01CA00	4/0	0.507 (12.9)	1.08 (27.4)	32 x 12	0.055 (1.40)	1.41 (35.8)	1,977 (2,946)	342	438

Copper Unfilled, 35kV 100% I.L., 345-mils Series E9MP

PART NUMBERS AND PHYSICAL CHARACTERISTICS									
Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9MPT-1A1B01CA00	1/0	0.358 (9.1)	1.10 (27.9)	9 x 14	0.055 (1.40)	1.40 (35.6)	1,142 (1,702)	235	300
E9MPT-2A1B01CA00	2/0	0.401 (10.2)	1.15 (29.2)	11 x 14	0.055 (1.40)	1.47 (37.3)	1,286 (1,916)	267	337
E9MPT-3A1B01CA00	3/0	0.451 (11.5)	1.20 (30.5)	14 x 14	0.055 (1.40)	1.52 (38.6)	1,469 (2,189)	302	376
E9MPT-4A1B01CA00	4/0	0.507 (12.9)	1.26 (32.0)	18 x 14	0.055 (1.40)	1.58 (40.1)	1,697 (2,529)	342	415
E9MPT-A11B01CA00	250	0.552 (14.0)	1.31 (33.3)	21 x 14	0.055 (1.40)	1.70 (43.2)	1,965 (2,918)	375	443
E9MPT-A31B01CA00	350	0.654 (16.6)	1.41 (35.8)	29 x 14	0.080 (2.03)	1.78 (45.1)	2,493 (3,715)	445	601
E9MPT-A61B01CA00	500	0.781 (19.8)	1.54 (39.1)	26 x 12	0.080 (2.03)	1.94 (49.2)	3,340 (4,977)	525	557
E9MPT-B21B01CA00	750	0.958 (24.3)	1.73 (43.9)	25 x 10	0.080 (2.03)	2.18 (55.4)	4,578 (6,821)	616	624
Full Neutral									
E9MPM-1A1B01CA00	1/0	0.358 (9.1)	1.10 (27.9)	25 x 14	0.055 (1.40)	1.40 (35.6)	1,366 (2,035)	236	300
E9MPM-2A1B01CA00	2/0	0.401 (10.2)	1.15 (29.2)	32 x 14	0.055 (1.40)	1.48 (37.7)	1,614 (2,405)	270	341
E9MPM-3A1B01CA00	3/0	0.451 (11.5)	1.20 (30.5)	25 x 14	0.055 (1.40)	1.53 (38.9)	1,853 (2,761)	306	386
E9MPM-4A1B01CA00	4/0	0.507 (12.9)	1.26 (32.0)	32 x 12	0.055 (1.40)	1.66 (42.1)	2,252 (3,355)	348	434

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: 1/3 Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Copper Filled, 15kV 100% I.L., 175-mils Series E9HP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9HPT-025B01CA00	2	0.280 (7.1)	0.68 (17.3)	6 x 14	0.055 (1.40)	0.98 (24.9)	601 (896)	177	241
E9HPT-015B01CA00	1	0.319 (8.1)	0.72 (18.3)	7 x 14	0.055 (1.40)	1.03 (26.2)	685 (1,021)	201	272
E9HPT-1A5B01CA00	1/0	0.358 (9.1)	0.76 (19.3)	9 x 14	0.055 (1.40)	1.06 (26.9)	798 (1,189)	229	306
E9HPT-2A5B01CA00	2/0	0.401 (10.2)	0.80 (20.4)	11 x 14	0.055 (1.40)	1.11 (28.2)	930 (1,386)	260	343
E9HPT-3A5B01CA00	3/0	0.451 (11.5)	0.85 (21.7)	14 x 14	0.055 (1.40)	1.16 (29.5)	1,098 (1,636)	295	380
E9HPT-4A5B01CA00	4/0	0.507 (12.9)	0.91 (23.1)	18 x 14	0.055 (1.40)	1.21 (30.7)	1,311 (1,953)	334	418
E9HPT-A15B01CA00	250	0.552 (14.0)	0.97 (24.5)	21 x 14	0.055 (1.40)	1.29 (32.8)	1,501 (2,237)	366	445
E9HPT-A35B01CA00	350	0.654 (16.6)	1.07 (27.1)	29 x 14	0.055 (1.40)	1.39 (35.4)	2,008 (2,992)	437	498
E9HPT-A65B01CA00	500	0.781 (19.8)	1.20 (30.4)	26 x 12	0.055 (1.40)	1.57 (39.9)	2,759 (4,111)	516	547
E9HPT-B25B01CA00	750	0.958 (24.3)	1.39 (35.2)	25 x 10	0.055 (1.40)	1.79 (45.5)	4,001 (5,962)	603	610
Full Neutral									
E9HPM-025B01CA00	2	0.280 (7.1)	0.68 (17.3)	16 x 14	0.055 (1.40)	0.98 (24.9)	719 (1,071)	173	234
E9HPM-015B01CA00	1	0.319 (8.1)	0.72 (18.3)	20 x 14	0.055 (1.40)	1.03 (26.2)	869 (1,295)	199	266
E9HPM-1A5B01CA00	1/0	0.358 (9.1)	0.76 (19.3)	25 x 14	0.055 (1.40)	1.06 (26.9)	1,014 (1,511)	226	302
E9HPM-2A5B01CA00	2/0	0.401 (10.2)	0.80 (20.4)	32 x 14	0.055 (1.40)	1.11 (28.2)	1,241 (1,848)	259	342
E9HPM-3A5B01CA00	3/0	0.451 (11.5)	0.85 (21.7)	25 x 14	0.055 (1.40)	1.16 (29.5)	1,465 (2,183)	294	388
E9HPM-4A5B01CA00	4/0	0.507 (12.9)	0.91 (23.1)	32 x 12	0.055 (1.40)	1.21 (30.7)	1,778 (2,649)	335	439

Copper Filled, 15kV 133% I.L., 220-mils Series E9JP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
½ Reduced Neutral									
E9JPT-025B01CA00	2	0.280 (7.1)	0.77 (19.6)	6 x 14	0.055 (1.40)	1.08 (27.4)	671 (1,000)	177	241
E9JPT-015B01CA00	1	0.319 (8.1)	0.81 (20.6)	7 x 14	0.055 (1.40)	1.12 (28.4)	759 (1,130)	201	272
E9JPT-1A5B01CA00	1/0	0.358 (9.1)	0.85 (21.6)	9 x 14	0.055 (1.40)	1.15 (29.2)	874 (1,302)	229	306
E9JPT-2A5B01CA00	2/0	0.401 (10.2)	0.89 (22.7)	11 x 14	0.055 (1.40)	1.20 (30.5)	1,009 (1,504)	260	343
E9JPT-3A5B01CA00	3/0	0.451 (11.5)	0.94 (23.9)	14 x 14	0.055 (1.40)	1.25 (31.8)	1,180 (1,759)	295	380
E9JPT-4A5B01CA00	4/0	0.507 (12.9)	1.00 (25.4)	18 x 14	0.055 (1.40)	1.30 (33.0)	1,397 (2,081)	334	418
E9JPT-A15B01CA00	250	0.552 (14.0)	1.06 (26.8)	21 x 14	0.055 (1.40)	1.38 (35.1)	1,612 (2,402)	366	445
E9JPT-A35B01CA00	350	0.654 (16.6)	1.16 (29.4)	29 x 14	0.055 (1.40)	1.48 (37.7)	2,109 (3,143)	437	498
E9JPT-A65B01CA00	500	0.781 (19.8)	1.29 (32.6)	26 x 12	0.055 (1.40)	1.66 (42.2)	2,937 (4,376)	516	547
E9JPT-B25B01CA00	750	0.958 (24.3)	1.48 (37.5)	25 x 10	0.080 (2.04)	1.90 (48.3)	4,132 (6,156)	603	610
Full Neutral									
E9JPM-025B01CA00	2	0.280 (7.1)	0.77 (19.6)	16 x 14	0.055 (1.40)	1.07 (27.2)	789 (1,175)	173	234
E9JPM-015B01CA00	1	0.319 (8.1)	0.81 (20.6)	20 x 14	0.055 (1.40)	1.12 (28.4)	943 (1,405)	199	266
E9JPM-1A5B01CA00	1/0	0.358 (9.1)	0.85 (21.6)	25 x 14	0.055 (1.40)	1.15 (29.2)	1,092 (1,628)	226	302
E9JPM-2A5B01CA00	2/0	0.401 (10.2)	0.89 (22.7)	32 x 14	0.055 (1.40)	1.19 (30.3)	1,324 (1,972)	259	342
E9JPM-3A5B01CA00	3/0	0.451 (11.5)	0.94 (23.9)	25 x 14	0.055 (1.40)	1.26 (32.0)	1,552 (2,313)	294	388
E9JPM-4A5B01CA00	4/0	0.507 (12.9)	1.00 (25.4)	32 x 12	0.055 (1.40)	1.30 (33.0)	1,870 (2,786)	335	439

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: ½ Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.

Copper Filled, 25kV 100% I.L., 260-mils Series E9KP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
1/3 Reduced Neutral									
E9KPT-015B01CA00	1	0.319 (8.1)	0.89 (22.6)	7 x 14	0.055 (1.40)	1.20 (30.5)	829 (1,235)	204	269
E9KPT-1A5B01CA00	1/0	0.358 (9.1)	0.93 (23.6)	9 x 14	0.055 (1.40)	1.23 (31.2)	947 (1,411)	232	303
E9KPT-2A5B01CA00	2/0	0.401 (10.2)	0.97 (24.6)	11 x 14	0.055 (1.40)	1.28 (32.5)	1,084 (1,616)	264	340
E9KPT-3A5B01CA00	3/0	0.451 (11.5)	1.02 (25.9)	14 x 14	0.055 (1.40)	1.35 (34.3)	1,281 (1,908)	300	378
E9KPT-4A5B01CA00	4/0	0.507 (12.9)	1.08 (27.4)	18 x 14	0.055 (1.40)	1.41 (35.8)	1,501 (2,237)	339	416
E9KPT-A15B01CA00	250	0.552 (14.0)	1.14 (29.0)	21 x 14	0.055 (1.40)	1.46 (37.1)	1,700 (2,532)	371	445
E9KPT-A35B01CA00	350	0.654 (16.6)	1.24 (31.5)	29 x 14	0.055 (1.40)	1.56 (39.5)	2,205 (3,285)	442	501
E9KPT-A65B01CA00	500	0.781 (19.8)	1.37 (34.8)	26 x 12	0.080 (2.03)	1.79 (45.5)	3,046 (4,539)	520	550
E9KPT-B25B01CA00	750	0.958 (24.3)	1.56 (39.6)	25 x 10	0.080 (2.03)	2.01 (51.1)	4,302 (6,410)	611	618
Full Neutral									
E9KPM-015B01CA00	1	0.319 (8.1)	0.89 (22.6)	20 x 14	0.055 (1.40)	1.19 (30.3)	1,015 (1,513)	204	265
E9KPM-1A5B01CA00	1/0	0.358 (9.1)	0.93 (23.6)	25 x 14	0.055 (1.40)	1.23 (31.2)	1,166 (1,738)	231	301
E9KPM-2A5B01CA00	2/0	0.401 (10.2)	0.97 (24.6)	32 x 14	0.055 (1.40)	1.27 (32.3)	1,404 (2,092)	265	342
E9KPM-3A5B01CA00	3/0	0.451 (11.5)	1.02 (25.9)	25 x 14	0.055 (1.40)	1.35 (34.2)	1,656 (2,468)	301	387
E9KPM-4A5B01CA00	4/0	0.507 (12.9)	1.08 (27.4)	32 x 12	0.055 (1.40)	1.41 (35.8)	1,981 (2,952)	342	438

Copper Filled, 35kV 100% I.L., 345-mils Series E9MP

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Nominal Conductor Diameter ¹ in (mm)	Nominal Insulation Diameter ¹ in (mm)	Concentric Neutral No. x AWG	Nominal Jacket Thickness ¹ in (mm)	Nominal Overall Diameter ¹ in (mm)	Nominal Net Weight ¹ lbs/kft (kg/km)	Ampacity	
								Underground Duct ²	Direct Buried ²
1/3 Reduced Neutral									
E9MPT-1A5B01CA00	1/0	0.358 (9.1)	1.10 (27.9)	9 x 14	0.055 (1.40)	1.40 (35.6)	1,144 (1,705)	235	300
E9MPT-2A5B01CA00	2/0	0.401 (10.2)	1.15 (29.2)	11 x 14	0.055 (1.40)	1.47 (37.3)	1,289 (1,920)	267	337
E9MPT-3A5B01CA00	3/0	0.451 (11.5)	1.20 (30.5)	14 x 14	0.055 (1.40)	1.52 (38.6)	1,472 (2,193)	302	376
E9MPT-4A5B01CA00	4/0	0.507 (12.9)	1.26 (32.0)	18 x 14	0.055 (1.40)	1.58 (40.1)	1,701 (2,534)	342	415
E9MPT-A15B01CA00	250	0.552 (14.0)	1.31 (33.3)	21 x 14	0.055 (1.40)	1.70 (43.2)	1,969 (2,934)	375	443
E9MPT-A35B01CA00	350	0.654 (16.6)	1.41 (35.8)	29 x 14	0.080 (2.03)	1.78 (45.1)	2,498 (3,722)	445	601
E9MPT-A65B01CA00	500	0.781 (19.8)	1.54 (39.1)	26 x 12	0.080 (2.03)	1.94 (49.2)	3,347 (4,987)	525	557
E9MPT-B25B01CA00	750	0.958 (24.3)	1.73 (43.9)	25 x 10	0.080 (2.03)	2.18 (55.4)	4,588 (6,836)	616	624
Full Neutral									
E9MPM-1A5B01CA00	1/0	0.358 (9.1)	1.10 (27.9)	25 x 14	0.055 (1.40)	1.40 (35.6)	1,369 (2,040)	236	300
E9MPM-2A5B01CA00	2/0	0.401 (10.2)	1.15 (29.2)	32 x 14	0.055 (1.40)	1.48 (37.7)	1,617 (2,410)	270	341
E9MPM-3A5B01CA00	3/0	0.451 (11.5)	1.20 (30.5)	25 x 14	0.055 (1.40)	1.53 (38.9)	1,857 (2,767)	306	386
E9MPM-4A5B01CA00	4/0	0.507 (12.9)	1.26 (32.0)	32 x 12	0.055 (1.40)	1.66 (42.1)	2,257 (3,363)	348	434

¹The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances. Other designs available upon request.

²Ampacities: 1/3 Reduced Neutral, triplexed - based on ICEA Standards. Full Neutral, single phase - based on 90°C conductor, 20°C ambient, 100% load factor, 36" burial depth, and earth RHO 90.



800.249.0014
ls.spsx.com

All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit ls.spsx.com. Purchase of this product is subject exclusively to the then current **LS Cable & System U.S.A., Inc. Terms and Conditions of Sale for Energy Cable Products**, which can be found on our website, ls.spsx.com, or provided to you upon request.

Technical Info

Metric Conversions.....	X-2
American Wire Gauge Sizes	X-2
Terms and Conditions of Sale	X-3
Energy Product Key.....	X-4
Energy Common Color Sequence	X-5
Packaging Descriptions	X-6
Reel Handling and Storage.....	X-6
Reel Dimension Diagram Key	X-7
Reel Dimensions and Capacities	
Single and Multi-Conductor Non-shielded and Non-metallic Covered Cables	X-8
Reel Dimensions and Capacities	
Single and Multi-Conductor Shielded and Metallic Covered Cables.....	X-10
Glossary of Terms.....	X-11

Metric Conversions

LS Cable & System U.S.A., Inc. uses the U.S. customary system of weights and measures as well as the metric equivalents. If you need help calculating these figures, please consult the conversion charts below.

INTO METRIC CONVERSIONS			
	If You Know	Multiply By	To Get
Length	milli-inch (mil)	25.40	microns (μm)
	inches (in)	25.40	millimeters (mm)
	inches (in)	2.54	centimeters (cm)
	feet (ft)	304.8	meters (m)
	yards (yd)	0.91	meters (m)
	miles (mi)	1.61	kilometers (km)
Area	sq. inches (in ²)	6.45	sq. centimeters (cm ²)
	sq. feet (ft ²)	0.09	sq. meters (m ²)
	sq. yards (yd ²)	0.84	sq. meters (m ²)
	sq. miles (mi ²)	2.59	sq. kilometers (km ²)
	acres	0.40	hectares (ha)
Mass (Weight)	ounces (oz)	28.35	grams (g)
	pounds (lbs)	0.45	kilograms (kg)
	short tons	0.91	tons (t)
Temperature	Fahrenheit (°F)	Subtract 32, then multiply by 0.56	Celsius (°C)
Mass per Length	pounds per 1,000 feet (lbs/kft)	1.49	kilograms per kilometers (kg/km)
Force	pounds force (lbf)	4.45	newtons (N)
	foot-pounds (ft-lbs)	1.36	newtons-meters (N-m)
	pounds force per inches (lbf/in)	1.75	newtons per centimeters (N/cm)
	pounds per sq. inches (PSI)	6.89	kiloPascals (kPa)

OUT OF METRIC CONVERSIONS			
	If You Know	Multiply By	To Get
Length	microns (μm)	0.04	milli-inch (mil)
	millimeters (mm)	0.04	inches (in)
	centimeters (cm)	0.39	inches (in)
	meters (m)	3.28	feet (ft)
	meters (m)	1.09	yards (yd)
	kilometers (km)	3,280.84	feet (ft)
	kilometers (km)	0.62	miles (mi)
	sq. centimeters (cm ²)	0.16	sq. inches (in ²)
Area	sq. meters (m ²)	1.20	sq. yards (yd ²)
	sq. kilometers (km ²)	0.39	sq. miles (mi ²)
	hectares (ha)	2.47	acres
Weight	grams (g)	0.04	ounces (oz)
	kilograms (kg)	2.20	pounds (lbs)
	tons (t)	1.10	short tons
Temperature	Celsius (°C)	Multiply by 1.80, then add 32	Fahrenheit (°F)
Weight per Unit Length	kilograms per kilometers (kg/km)	0.67	pounds per 1,000 feet (lbs/kft)
Force	newtons (N)	0.22	pounds force (lbf)
	newtons-meters (N-m)	0.74	foot-pounds (ft-lbs)
	newtons per centimeters (N/cm)	0.57	pounds force per inches (lbf/in)
	kilo Pascals (kPa)	0.15	pounds per sq. inches (PSI)

American Wire Gauge Sizes

The table below shows various data for copper and aluminum stranded conductors.

AMERICAN WIRE GAUGE (AWG) SIZES							
AWG/ kcmil	Stranding ²	Diameter		Copper DC Resistance @ 20°C		Aluminum DC Resistance @ 20°C	
		in	mm	(Ω/kft)	(Ω/km)	(Ω/kft)	(Ω/km)
1,000	61	1.117	28.372	0.0106	0.0348	0.0173	0.0568
750	61	0.968	24.587	0.0141	0.0462	0.0231	0.0758
600	61	0.866	21.996	0.0177	0.0581	0.0289	0.0948
500	37	0.789	20.041	0.0212	0.0695	0.0035	0.1140
400	37	0.706	17.932	0.0264	0.0866	0.0434	0.1420
350	37	0.661	16.789	0.0302	0.0991	0.0495	0.1620
300	37	0.611	15.519	0.0353	0.1160	0.0578	0.1870
250	37	0.558	14.173	0.0423	0.1390	0.0694	0.2280
0000 (4/0)	19	0.512	13.005	0.0500	0.1640	0.0820	0.2690
000 (3/0)	19	0.456	11.582	0.0630	0.2070	0.1030	0.3380
00 (2/0)	19	0.405	10.287	0.7950	0.2610	0.1300	0.4270
0 (1/0)	19	0.362	9.195	0.1000	0.3280	0.1640	0.5380
1	19	0.322	8.179	0.1270	0.5220	0.2070	0.6790
2	7	0.283	7.188	0.1590	0.6590	0.2610	0.8560
4	7	0.225	5.715	0.2530	1.0500	0.4160	1.3600
6	7	0.178	4.521	0.4030	1.3200	0.6610	2.1700
8 ¹	19	0.142	3.607	0.6400	2.1000	1.0500	3.4400
10	7	0.126	3.200	1.0200	3.3500	1.6700	5.4800
12	7	0.113	2.870	1.6300	5.3500	2.6700	8.7600
14	7	0.071	1.803	2.5800	8.4600	4.2200	13.8000
16	7	0.0576	1.463	4.1000	13.4000	6.7100	22.0000
18	7	0.0456	1.158	6.5400	21.4000	10.7000	35.1000
20	7	0.0363	0.922	10.3000	33.8000	16.9000	55.4000
22	7	0.0288	0.732	16.4000	53.8000	-	-
24	-	0.0228	0.579	26.1000	85.6000	-	-
25	-	0.0179	0.455	106.2000	32.3700	-	-
26	-	0.0159	0.405	133.9000	40.8100	-	-
27	-	0.0142	0.361	168.9000	51.4700	-	-
28	-	0.0126	0.321	212.9000	64.9000	-	-

¹8AWG, Combination Unilay-Stranded, Per ASTM B787

²24AWG through 1000kcmil, Reverse Concentric Compressed Class B, ASTM B8

Terms and Conditions of Sale

For Energy Cable Products

1. GENERAL

These Terms and Conditions of Sale (the "Terms") govern Buyer's purchase of any energy cable products (the "Products") from LS Cable & System U.S.A., Inc. ("Seller"). Buyer's purchase of the Products is limited to the terms and conditions contained herein. If these Terms are first tendered to Buyer before Buyer tenders a purchase order or similar document to Seller, these Terms are in lieu of any terms later submitted by Buyer and Seller rejects all additional or different terms and conditions of Buyer, whether confirmatory or otherwise. If Seller tenders these terms after the tender by Buyer of other terms, whether as part of a purchase order or otherwise, then Seller's acceptance of any offer by Buyer associated with Buyer's terms is expressly conditioned upon Buyer's acceptance of these Terms exclusively and to the exclusion of any proffered Buyer terms or conditions, regardless of whether these Terms contain any terms additional to, or different from, any terms proffered by Buyer. Buyer's performance, or acceptance of, or payment for, any products from Seller will constitute Buyer's acceptance of these Terms exclusively. If there is an executed written sales agreement or quotation in effect between the parties (a "Sales Agreement"), these Terms form a part thereof. Waiver by Seller of any breach, remedy or provision of these Terms shall not be construed to be a waiver of any succeeding breach or any other provision or legal remedy of Seller. The section headings of these Terms are for ease of reference only and shall not be admissible in any action to alter, modify or interpret the contents of any section hereof. The International Convention on the Sale of Goods shall have no application to any sales of Products hereunder.

2. PRICE, CHARGES AND PAYMENT

Orders are not binding upon Seller until accepted by Seller in its sole discretion. No order submitted by Buyer shall be deemed accepted by Seller unless and until either confirmed in writing by Seller or by delivery of the Product specified in the order, and then only on these Terms. Seller may modify Buyer's order where necessary as follows: (a) substituting the latest or correct part number or part description for the part number or part description set forth on the order; (b) substituting Seller's prices in effect as applicable to the order; (c) substituting an estimated delivery schedule which is reasonable (considering Seller's stock availability and lead time); and (d) correcting any stenographical or typographical error. Prices for energy cable products will be adjusted at the time of shipment to reflect the closing COMEX metal price on the date prior to the ship date. Seller's current ancillary charges apply as applicable to the order such as parallel, cut, wood lagging, gas pressure, pulling eye and lift gate charges.

Fees for and relating to the Products are subject to adjustment in the event there are cost increases created by circumstances such as, but not limited to, changes in government energy policies, fuel and energy increases, metal premium or metal processing charges, chemical or material price increases, material and supply shortages, transportation and shipping costs. Any accepted order requiring special manufacturing processes, inspection, specified weight, packaging, test results, certification, etc., is subject to additional charges.

Unless otherwise agreed to by Seller in writing, Buyer agrees to pay all amounts due to Seller within thirty (30) days from the date of invoice. Overdue payments shall bear interest and service charges from the due date until paid at a rate of 1.5% (.015) per month or the maximum legal rate, whichever is less, and any collection costs of Seller. FAILURE TO PAY ANY AMOUNT WHEN DUE VOIDS ALL WARRANTIES.

Credit is extended at the sole discretion of Seller. If credit has been extended, the amount of credit may be changed or credit withdrawn by Seller at any time, in its sole discretion. If a cash discount is stipulated, it is subject to Buyer's entire account being current. Any discounts given to Buyer by Seller in relation to the price of the Products are conditional upon payment for the Products being made strictly in accordance with the Sales Agreement and these Terms and to Buyer's entire account for all products purchased from Seller being current.

3. DELIVERY, TITLE, RISK OF LOSS, AND SHIPPING OF PRODUCTS

Title to and risk of loss of the Products shall pass to Buyer upon tender of such Products to Buyer at Seller's factory or a common carrier. Unless otherwise agreed by Seller in writing, shipping terms shall be Ex Works (Incoterms 2010) Seller's factory or warehouse. Seller's weights shall govern provisional and final settlement. Any shipping date provided by Seller is the Seller's best estimate and will not operate to bind Seller to ship or make deliveries on such date. All shipments shall be subject to Seller's then current shipment terms, including its Freight Policies, Freight Damage Policies, and minimum order values.

Buyer must thoroughly inspect the Products at the time of receipt for signs of damage, discrepancies or a shortage. Inspections of the Products at the time of delivery shall be commenced in the presence of the carrier's driver and Buyer shall note on the freight bill any shortages, discrepancies or damages of any Product received on the carrier's receipt. If concealed loss or damage is discovered, Buyer must report it to the carrier within 15 days from the date of receipt.

4. LIMITED WARRANTIES AND DISCLAIMERS

Seller warrants to Buyer that at the time of delivery the Products will conform substantially to Seller's specifications identified in the applicable Product Data Sheets ("Specifications"). As Buyer's sole and exclusive remedy and Seller's entire liability for any breach of the foregoing warranty, Seller will, at its sole option and expense, either refund the purchase price paid, repair or replace the Product which fails to meet this warranty upon return of the nonconforming Product; provided, Buyer notifies Seller of noncompliance in writing within one (1) year of delivery of such Product.

Transportation charges to and from Seller's location for the return of all nonconforming Products to Seller and their re-shipment to Buyer and the risk of loss thereof will be borne by Seller. Buyer shall use Seller's designated carrier for all re-shipments. These warranties do not apply to any Product that was not properly stored or handled by the Buyer, that was repaired or altered or was otherwise subject to abuse, neglect or improper use by Buyer or a third party, or that has any stage of processing performed on it which causes the defect. EXCEPT WITH RESPECT TO THE SPECIFIC WARRANTIES SET FORTH IN THIS SECTION 4 OF THESE TERMS, SELLER MAKES NO OTHER WARRANTIES WHATSOEVER, EXPRESS OR IMPLIED, REGARDING THE PRODUCTS OR PERFORMANCE OF ITS OBLIGATIONS HEREUNDER, AND SPECIFICALLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Without limitation, under no circumstances shall Seller be liable for any costs associated with reworking, re-manufacturing or scrapping goods in which defective Product supplied by Seller was incorporated, for any costs associated with production stoppages, machinery breakdown or recall campaigns, or for any troubleshooting, administrative or engineering charges.

5. CLAIMS OF PATENT INFRINGEMENT

Seller shall conduct, at its own expense, the entire defense of any claim, suit, action or other proceedings ("Claim") brought against Buyer by a third party alleging that any Product manufactured by Seller infringes upon any United States patent of any third party; provided, however: (i) Seller receives prompt written notice of the Claim; (ii) Seller has full control of the defense and all related settlement negotiations; (iii) the Products are made according to a specification or design furnished by Seller, or if a process patent is involved, the process performed by the Products are recommended in writing by Seller; and (iv) Buyer provides Seller with all necessary assistance, information and authority to perform the defense and negotiate settlement thereof. Provided all four of the foregoing conditions are met, Seller shall, at its own expense, either settle said Claim or shall pay all damages (excluding incidental, consequential, statutory, or punitive damages) and costs awarded by the court therein. If the use or resale of such Products is finally enjoined, Seller shall, at Seller's option, procure for Buyer the right to use or resell the Products, replace them with equivalent non-infringing Products, modify them so they become non-infringing but equivalent, or remove them and refund the purchase price (less a reasonable allowance for use, damage or obsolescence). Buyer shall indemnify and hold Seller harmless from all Claims based upon (i) the use of a Product customized for Buyer based on Buyer's ideas, specifications or designs, (ii) the performance of a process performed by the Products not recommended in writing by Seller, or (iii) the use or sale of the Products delivered hereunder in combination with other products not delivered to Buyer by Seller.

6. EXCUSABLE PERFORMANCE

Seller is excused from performing any of its obligations under these Terms, any order or Sales Agreement if its performance is prevented, hindered or delayed by delays of suppliers, acts of God, nature, governments or their agencies, terrorism, war or sabotage, compliance in good faith with any applicable foreign or domestic governmental regulation or order (whether or not it proves to be invalid), fires, riots, inability to supply or obtain , products, materials, raw materials, supplies, fuel or utilities from normal sources of supply, labor disputes, work stoppages, lockouts, delays in transportation, earthquakes, floods, storms or other severe weather conditions, power shortages or power failures or any other events or circumstances beyond Seller's reasonable control (an "Event"). To the extent an Event delays Seller's performance, such performance shall be extended for as many days beyond the due date until the delay concludes; provided, however, if Seller is unable to perform any of its obligations under any order due to an Event for more than thirty (30) days, it may in its sole option terminate, without liability

or penalty, any Sales Agreement, order or obligation in whole or in part. It is expressly understood that the Seller has available a limited source for the materials used by Seller in the manufacture of the Products. If there is an interference, limitation or cessation of any material from Seller's source of supply for any reason, Buyer agrees to relieve the Seller temporarily, proportionately, or permanently of liability under these Terms or any Sales Agreement or order, depending upon whether the interruption of the source of supply is a temporary interruption, a reduced delivery of materials, or a permanent cessation of supply. In the event there is a Product shortage pursuant to this section, Seller may ration and distribute such Products as it deems appropriate.

7. TAXES AND EXPORTS

Any and all taxes (not including any U.S. income or excess profit taxes attributable to Seller) which may be imposed by any taxing authority, arising from the sale, delivery or use of the Products and for which Seller may be held responsible for collection or payment, either on its own behalf or that of Buyer, shall be paid by Buyer to Seller upon Seller's demand. Export orders are subject to applicable export regulations and requirements. Buyer disclaims in favor of Seller any right or interest in, the drawback of duty, taxes or surcharges paid on imported material contained in the Products.

8. FINANCIAL RESPONSIBILITY OF BUYER

Buyer's solvency is a condition of Seller's performance and Seller may, at any time, in its sole discretion for credit reasons (including a good faith belief that a current or future payment is or may be impaired) or because of Buyer's breach of this or any other agreement with Seller, suspend or change credit terms, fix a limit on credit, require progress payments, demand payment in full of any outstanding balance, withhold shipments, demand COD or request other assurances of payment, cancel or terminate any order or agreement or repossess all Products previously delivered, which Products shall become the absolute property of Seller subject to credit therefore. Buyer grants to Seller a security interest in Products delivered hereunder to secure Buyer's obligations under these Terms and any Sales Agreement and grants to Seller the right to execute, deliver, and/or file any financing statement or do any other thing reasonably necessary to perfect Seller's security interest. Notwithstanding any other provision of these Terms, Seller reserves the right in its absolute discretion from time to time to require payment in full of the price of the Products before delivery of all or any of the Products.

Seller may terminate any order or Sales Agreement by written notice to Buyer if (i) a receiver or trustee is appointed for any of Buyer's property; (ii) Buyer is adjudicated or voluntarily becomes bankrupt or a debtor under any bankruptcy, dissolution or reorganization laws or similar law; (iii) Buyer becomes insolvent or makes an assignment for the benefit of creditors; (iv) an execution is issued pursuant to a judgment rendered against Buyer; or (v) Buyer is unable or refuses to make payment to Seller. If any order or Sales Agreement is terminated by Seller pursuant to this section, Seller shall be relieved of any further obligation to Buyer and Buyer shall reimburse Seller for its termination costs and expenses and a reasonable allowance for profit.

In addition to any right of set off or recoupment provided by law, Buyer agrees that all its accounts with Seller will be administered on a net settlement basis and that Seller may set off debts and credits, including Seller's attorney fees and costs of enforcement, against any of Buyer's accounts regardless of the basis for such debts and credits and without advance notice. In this section, "Seller" includes Seller's parent, subsidiaries and affiliates, and "Buyer" includes Buyer's parent, subsidiaries and affiliates.

9. CANCELLATIONS AND RETURNS

All orders accepted by Seller are non-cancelable unless (i) such order is cancelled in writing thirty (30) days prior to the scheduled ship date and (ii) the Products ordered were not manufactured as special or customized items. A cancellation fee of 10% of the quoted price shall apply. If paid for, cancelled Products may be returned for credit only. Return of any Product must be authorized by Seller. Seller will provide Buyer a Return Material Authorization number for all authorized returns which must be shown on the returned Product and associated shipping documents. Standard stock items are returnable at invoice price less a 20% restocking charge, freight prepaid by Buyer to the plant of manufacture or Seller's designated location. Non-stock items, special items and/or custom length cut reels of energy cables are final sales and not subject to return. All material must be returned to Seller undamaged and in the original packaging.

10. CHANGES — PROCESS, MATERIAL AND PRODUCT DESIGN

Seller continually develops and uses new processes, materials and product designs in an effort to improve its Products, while maintaining conformity to the Specifications. If Buyer's applications of the Products rely upon any performance, dimensional or constant criteria other than as required by the applicable Specifications, Buyer must conduct regular testing or evaluation of those specific Products. Seller makes no warranty or representation of any nature that any material shipped conforms to any material of like product description as may have previously been delivered to Buyer.

11. LIMITATION OF LIABILITY

IN NO EVENT WILL SELLER BE LIABLE TO BUYER FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, DELAY, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOSS OF DIRECT OR INDIRECT PROFITS, REVENUE, OR USE, WHETHER ARISING IN CONTRACT, TORT, OR OTHERWISE, EVEN IF BUYER OR ANY OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL SELLER'S AGGREGATE LIABILITY TO BUYER EXCEED ALL AMOUNTS ACTUALLY PAID BY BUYER TO SELLER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF THE LIMITED REMEDY SET FORTH IN SECTION 4.

12. CONFIDENTIALITY

Buyer will not disclose to third persons any proprietary or confidential information of Seller concerning its business and operations, including without limitation, pricing information, for a period of five (5) years from the date such confidential information was learned or for confidential information meeting the definition of "trade secret" under applicable law, until such information is no longer a "trade secret." The obligations of confidentiality in this Section 12 do not apply to Confidential Information to the extent that the Confidential Information becomes readily ascertainable by proper means by the public other than through breach of this Section 12 by Buyer.

13. CHOICE OF LAW

These Terms and all accepted orders shall be construed in accordance with the laws of the State of Georgia, United States of America without regard to its conflict of law principles. Buyer agrees that any and all disputes with Seller, including contract and tort claims, shall be resolved in the state and federal courts situated in Georgia, and that these courts shall have the exclusive jurisdiction over all such disputes and Buyer consents to the personal jurisdiction in these courts. Any action brought by Buyer against Seller shall be within one (1) year after the cause of action arises or it shall be deemed forever waived.

14. ADDITIONAL TERMS

The provisions of these Terms and the Sales Agreement, if any, constitute the entire agreement between Buyer and Seller with respect to the matter contained herein and supersedes any prior oral or written communications, understanding, representations, proposals or agreements with respect to such subject matter. Seller may revise these Terms from time to time. These Terms may not be amended or modified by the Buyer except upon the execution of a written agreement signed by both parties indicating an intent to modify these Terms. Neither Buyer nor Seller may assign any of its rights or obligations hereunder or under any order; provided, however, that Seller shall be permitted to assign any of its rights or obligations under these Terms, Sales Agreement or any order in connection with the sale or transfer of all or substantially all of its business, whether by merger, reorganization, consolidation, transfer of assets, transfer of equity interests, or otherwise. If any provision of these Terms or a Sale Agreement is invalid, unenforceable or in conflict with any law, such provision shall be deemed severed from these Terms and/or the Sale Agreement and the validity of the remainder of these Terms and/or the Sale Agreement shall not be affected thereby. The provisions of these Terms that by their nature are reasonably intended by the parties to survive the expiration or termination of the Terms or any accepted order, including without limitation sections 4, 5, 11, 12, 13 and this section 14, shall survive the expiration or termination of the Terms or any accepted order.

Energy Product Key

PRODUCT KEY

Conductor	Cu Copper	Al Aluminum						
Strand	Solid Solid	B Class B	Filled B Filled Class B					
Voltage	300V 300 Volts	600V 600 Volts	MV 5kV—35kV	2kV 2000 Volts				
Insulation	PVC Polyvinyl Chloride	PVC Nylon Polyvinyl Chloride covered with Nylon	PE PVC Polyethylene covered with Polyvinyl Chloride	EPR Ethylene Propylene Rubber	XLPE Cross-linked Polyethylene	TR XLPE Tree-Retardant Cross-linked Polyethylene		
Shield/Neutral	IS Alum Mylar Individually Shielded Aluminum/Mylar	OS Alum Mylar Overall Shielded Aluminum/Mylar	IS Alum Mylar OS Individually and Overall Shielded Aluminum/Mylar	OS Copper Tape Overall Shielded Copper Tape	Copper Tape Copper Tape	NONE No Shield	RCN Reduced Concentric Neutral	FCN Full Concentric Neutral
Armor	AIA Aluminum Interlock Armored	TECK Teck Built						
Jacket	PVC Black Polyvinyl Chloride	LLDPE Linear Low-Density Polyethylene	CPE Chlorinated Polyethylene					

Energy Common Color Sequence

ICEA S-58-679

ICEA METHOD 1, TABLE E-1 (K-1) ¹		
Conductor Number	Background or Base Color	Tracer Color
1	Black	-
2	White	-
3	Red	-
4	Green	-
5	Orange	-
6	Blue	-
7	White	Black
8	Red	Black
9	Green	Black
10	Orange	Black
11	Blue	Black
12	Black	White
13	Red	White
14	Green	White
15	Blue	White
16	Black	Red
17	White	Red
18	Orange	Red
19	Blue	Red
20	Red	Green
21	Orange	Green

Pair cables are Black, White and numbered. Triad cables are Black, White, Red and numbered.
¹Available with up to 21 conductors.

METHOD 3 - TABLE E-1 ²	
Conductor Number	Conductor Printing
1	"1-Black"
2	"2-White"
3	"3-Red"

METHOD 3 - TABLE E-2 ²	
Conductor Number	Conductor Printing
1	"1-Black"
2	"2-Red"
3	"3-Blue"
4	"4-Orange"

²Available for E3 Series products only.

METHOD 4 - ALL BLACK CONDUCTORS ³	
Conductor Number	Conductor Printing
1	"1-One"
2	"2-Two"
3	"3-Three"
4	"4-Four"
5	"5-Five"

³Available for E3 Series products only.

ICEA METHOD 1, TABLE E-2 (K-2)		
Conductor Number	Base Color	Tracer Color
1	Black	-
2	Red	-
3	Blue	-
4	Orange	-
5	Yellow	-
6	Brown	-
7	Red	Black
8	Blue	Black
9	Orange	Black
10	Yellow	Black
11	Brown	Black
12	Black	Red
13	Blue	Red
14	Orange	Red
15	Yellow	Red
16	Brown	Red
17	Black	Blue
18	Red	Blue
19	Orange	Blue
20	Yellow	Blue
21	Brown	Blue
22	Black	Orange
23	Red	Orange
24	Blue	Orange
25	Yellow	Orange
26	Brown	Orange
27	Black	Yellow
28	Red	Yellow
29	Blue	Yellow
30	Orange	Yellow
31	Brown	Yellow
32	Black	Brown
33	Red	Brown
34	Blue	Brown
35	Orange	Brown
36	Yellow	Brown

Pair cables are Black, Red and numbered. Triad cables are Black, Red, Blue and numbered.
 Colors repeats after 36 conductors. There are no Green or White conductors or stripes.

METHOD 9	
Per ICEA Method 9, pairs are Black and White; triads are Black, White and Red; each pair or triad are identified in sequence by printed numbers on at least one conductor, beginning with the number "1"	

Packaging Descriptions



WOOD/PLYWOOD REEL

Reels may be made of plywood or wood. The Energy division wooden reels can be recycled an average of five times before retirement (see Web site for further details).

Reel Handling and Storage

SHIPPING AND TRANSPORT

- All reels must be shipped upright. Shipping the reel on its side can cause damage to the reel flange and/or cause the cable layers to shift. This may cause damage to the cable by causing it to snag during payoff.
- Reels must be moved upright by lifting the cable with a fork lift or reel mover. The forks must be placed under the reel with the forks always perpendicular to the reel flange.



STORAGE AND HANDLING

- Reels must be stored upright. Reels must not be stored on their sides.
- Store reels in areas with flat, solid surfaces. Use appropriate devices to prevent reel movement. Avoid storage areas that are susceptible to flooding, or that could be hazardous to the cable, such as sharp, rocky terrain.
- If reels are to be rolled, they should be rolled in the direction of the arrow on the reel. Rolling reels in the opposite direction may cause the cable to become loose and cause difficulty in installation.
- The reel should not be dragged or pushed even for short distances as the flange of the reel may break or be damaged. Cable reels should be lifted completely or rolled for moving.
- When applicable, cable end caps should remain in place until installation.
- Thermal wrap may be used to protect cables from exposure to direct sunlight, if desired.

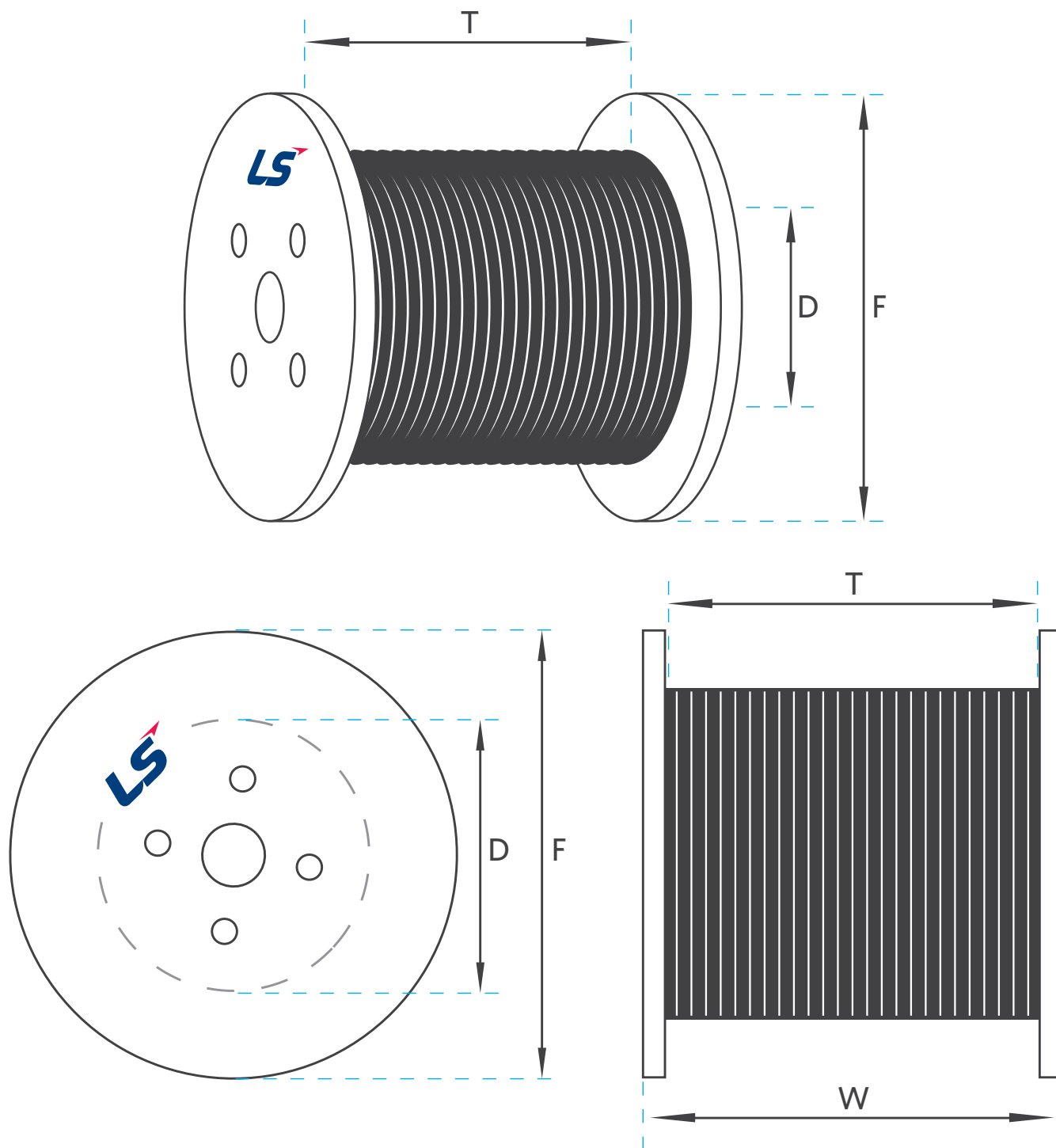


INSTALLATION

- Cables are to be installed more carefully and pulled more slowly in low temperatures (0°C, 32°F). Cables should be kept in heated storage for at least 24 hours before installation.
- Cable should not be installed at ambient temperatures lower than -10°C (14°F).
- Verify that the correct product is to be installed.
- Always check reels for nails and other cable hazards prior to payoff.
- Do not exceed the minimum bend radius, maximum tensile load, or maximum crush load.
- Use a pulling eye when conditions warrant.
- Always use proper installation hardware, tools and techniques.
- Do not use improper cleaning solvents.
- Always follow appropriate equipment manufacturers' instructions.
- Always use proper lubricant at the duct entry point.
- The reel must remain in an upright position for paying off the cable.
- All safety precautions for securing the reel prior to placing should be followed.
- Cable should be dispensed from the reel in the direction of the arrow on the reel and should be fed from the top of the reel.
- When applicable, cable end caps should be installed/replaced on all cable ends.

Follow all above recommendations for shipping and transport, storage and handling, and installation. If in doubt, contact LS Cable & System U.S.A., Inc. Technical Support at 800.249.0014 for specific recommendations.

Reel Dimension Diagram Key



Flange x Traverse x Drum (F x T x D)

F = Flange Diameter

T = Traverse (inside width between flanges)

D = Drum Diameter

W = Overall Width (includes flanges)

Reel Dimensions and Capacities

Single and Multi-Conductor Non-shielded and Non-metallic Covered Cables

This information is intended as a guideline for **NON-SHIELED** and **NON-METALLIC** covering products, based on 10x the Overall Diameter.

Product families: E5, E2BDA, E2BEA, E2BFA, E3BEA, E3BFA, and E9BBA.

Other reels are available, please contact LS Cable & System U.S.A., Inc. for specific requirements.

REEL DIMENSIONS									
Flange (in)	30	36	46	52	58	72	78	84	96
Traverse (in)	18	18	25	25	25	36	40	40	40
Drum (in)	12	14	20	20	20	36	39	42	48
F x T x D (in)	30 x 18 x 12	36 x 18 x 14	46 x 25 x 20	52 x 25 x 20	58 x 25 x 20	72 x 36 x 36	78 x 40 x 39	84 x 40 x 42	96 x 40 x 48
Maximum Weight (lbs)	640	800	1,600	2,000	2,400	5,200	6,800	7,200	
Class 3 - Maximum Weight (lbs)						10,000	10,000	12,000	15,000
REEL CAPACITIES									
Cable Nominal Diameter (in)				Cable Length (ft)					
0.250	9,960	15,500							
0.260	8,780	13,970							
0.270	8,120	13,100							
0.280	7,930	12,270							
0.290	7,330	11,490							
0.300	6,770	10,750							
0.310	6,240	10,050							
0.320	5,740	9,380							
0.330	5,620	8,750							
0.340	5,160	8,150							
0.350	5,070	7,580							
0.360	4,640	7,450							
0.370	4,230	6,920	15,650						
0.380	4,160	6,420	14,660						
0.390	3,790	6,310	14,420						
0.400	3,720	5,840	13,500						
0.410	3,660	5,400	12,620						
0.420	3,320	5,310	12,420						
0.430	3,270	4,890	11,600						
0.440	2,950	4,820	11,430	15,380					
0.450	2,910	4,760	10,650	15,170					
0.460	2,870	4,370	9,920	14,290					
0.470	2,570	4,310	9,780	13,450					
0.480	2,540	3,950	9,080	13,280					
0.490	2,500	3,900	8,960	12,490					
0.500	2,470	3,850	8,840	12,340					
0.525	2,160	3,450	7,520	10,790	14,530				
0.550	1,880	3,080	7,300	9,930	12,890				
0.575	1,830	2,740	6,610	9,130	11,970				
0.600	1,580	2,660	5,980	8,380	11,110				
0.625	1,540	2,360	5,380	7,680	10,300				
0.650	1,320	2,080	4,830	7,020	9,530				
0.675	1,280	2,030	4,710	6,410	8,820				
0.700	1,250	1,770	4,220	6,270	8,140	15,080			
0.725	1,060	1,730	4,120	5,710	7,500	14,710			
0.750	1,040	1,700	3,670	5,180	6,900	13,510			
0.775	1,020	1,470	3,590	5,080	6,330	12,390			
0.800	850	1,440	3,180	4,600	6,220	12,120	15,190		
0.825	830	1,240	3,120	4,140	5,700	11,090	14,860		
0.850	810	1,220	2,740	4,070	5,600	10,120	13,650		
0.875	800	1,200	2,690	4,000	5,110	9,910	13,380	15,010	
0.900	650	1,170	2,640	3,590	4,650	9,020	12,260	14,710	
0.925	640	1,000	2,310	3,530	4,580	8,840	11,210	13,540	
0.950	630	980	2,260	3,150	4,150	8,020	11,000	13,290	
0.975	620	960	2,220	3,100	4,090	7,870	10,020	12,200	

Reel Dimensions and Capacities

Single and Multi-Conductor Non-shielded and Non-metallic Covered Cables (continued)

This information is intended as a guideline for **NON-SHIELDED** and **NON-METALLIC** covering products, based on 10x the Overall Diameter.

Product families: E5, E2BDA, E2BEA, E2BFA, E3BEA, E3BFA, and E9BBA.

Other reels are available, please contact LS Cable & System U.S.A., Inc. for specific requirements.

REEL DIMENSIONS									
Flange (in)	30	36	46	52	58	72	78	84	96
Traverse (in)	18	18	25	25	25	36	40	40	40
Drum (in)	12	14	20	20	20	36	39	42	48
F x T x D (in)	30 x 18 x 12	36 x 18 x 14	46 x 25 x 20	52 x 25 x 20	58 x 25 x 20	72 x 36 x 36	78 x 40 x 39	84 x 40 x 42	96 x 40 x 48
Maximum Weight (lbs)	640	800	1,600	2,000	2,400	5,200	6,800	7,200	
Class 3 - Maximum Weight (lbs)						10,000	10,000	12,000	15,000
REEL CAPACITIES									
Cable Nominal Diameter (in)	Cable Length (ft)								
1.000	610	950	2,190	3,050	4,030	7,730	9,840	11,990	
1.050	480	780	1,860	2,670	3,590	6,870	8,790	10,790	13,580
1.100	460	760	1,800	2,320	3,190	6,070	7,820	9,690	13,140
1.150	450	610	1,520	2,260	2,810	5,340	7,570	8,670	11,910
1.200	340	600	1,480	1,940	2,740	5,180	6,720	7,740	10,770
1.250		580	1,230	1,900	2,410	4,530	6,520	7,510	9,710
1.300		460	1,190	1,620	2,350	4,410	5,760	6,680	8,720
1.350		450	1,160	1,580	2,050	3,830	5,050	6,500	8,490
1.400		430	950	1,540	2,010	3,730	4,920	5,750	7,610
1.450			930	1,300	1,730	3,640	4,800	5,610	7,420
1.500			900	1,280	1,700	3,140	4,180	4,930	6,620
1.600			700	1,040	1,430	2,990	3,530	4,210	5,740
1.700			670	1,000	1,380	2,500	3,380	4,030	4,950
1.800			650	800	1,140	2,060	2,830	3,410	4,750
1.900			490	770	930	1,980	2,720	3,280	4,080
2.000			470	750	900	1,910	2,250	2,760	3,930
2.100						1,550	2,170	2,660	3,350
2.200						1,490	1,760	2,210	2,820
2.300						1,190	1,710	2,140	2,730
2.400						1,150	1,650	1,740	2,650
2.500						1,110	1,310	1,690	2,210
2.600						860	1,280	1,640	2,140
2.700						830	1,240	1,310	1,760
2.800						810	960	1,270	1,710
2.900						790	930	1,240	1,660
3.000						770	910	1,210	1,620
3.100						560	880	930	1,300
3.200						550	860	910	1,270
3.300						540	640	890	1,240
3.400						520	620	870	1,210
3.500						510	610	850	940
3.600						500	590	630	920
3.700							580	610	900
3.800							570	600	880
3.900							560	590	860
4.000								580	850

Reel Dimensions and Capacities

Single and Multi-Conductor Shielded and Metallic Covered Cables

This information is intended as a guideline for **SHIELDED** and **METALLIC** covering products, based on 14x the Overall Diameter.

Product families: All Type MC (AIA) E2BFP, E3BFP, E8xLP; single and multi-conductor MV cables E8, E9; and all cables with Aluminum-Mylar tape."

Other reels are available, please contact LS Cable & System U.S.A., Inc. for specific requirements.

REEL DIMENSIONS									
Flange (in)	30	36	46	52	58	72	78	84	96
Traverse (in)	18	18	25	25	25	36	40	40	40
Drum (in)	12	14	20	20	20	36	39	42	48
F x T x D (in)	30 x 18 x 12	36 x 18 x 14	46 x 25 x 20	52 x 25 x 20	58 x 25 x 20	72 x 36 x 36	78 x 40 x 39	84 x 40 x 42	96 x 40 x 48
Maximum Weight (lbs)	640	800	1,600	2,000	2,400	5,200	6,800	7,200	
Class 3 - Maximum Weight (lbs)						10,000	10,000	12,000	15,000
REEL CAPACITIES									
Cable Nominal Diameter (in)				Cable Length (ft)					
0.500	2,470	3,850	8,840	12,340					
0.525	2,160	3,450	7,520	10,790	14,530				
0.550	1,880	3,080	7,300	9,930	12,890				
0.575	1,830	2,740	6,610	9,130	11,970				
0.600	1,580	2,660	5,980	8,380	11,110				
0.625	1,540	2,360	5,380	7,680	10,300				
0.650	1,320	2,080	4,830	7,020	9,530				
0.675		2,030	4,710	6,410	8,820				
0.700		1,770	4,220	6,270	8,140	15,080			
0.725		1,730	4,120	5,710	7,500	14,710			
0.750		1,700	3,670	5,180	6,900	13,510			
0.775		1,470	3,590	5,080	6,330	12,390			
0.800			3,180	4,600	6,220	12,120	15,190		
0.825			3,120	4,140	5,700	11,090	14,860		
0.850			2,740	4,070	5,600	10,120	13,650		
0.875			2,690	4,000	5,110	9,910	13,380	15,010	
0.900			2,640	3,590	4,650	9,020	12,260	14,710	
0.925			2,310	3,530	4,580	8,840	11,210	13,540	
0.950			2,260	3,150	4,150	8,020	11,000	13,290	
0.975			2,220	3,100	4,090	7,870	10,020	12,200	
1.000			2,190	3,050	4,030	7,730	9,840	11,990	
1.050			1,860	2,670	3,590	6,870	8,790	10,790	13,580
1.100			1,800	2,320	3,190	6,070	7,820	9,690	13,140
1.150						5,340	7,570	8,670	11,910
1.200						5,180	6,720	7,740	10,770
1.250						4,530	6,520	7,510	9,710
1.300						4,410	5,760	6,680	8,720
1.350						3,830	5,050	6,500	8,490
1.400						3,730	4,920	5,750	7,610
1.450						3,640	4,800	5,610	7,420
1.500						3,140	4,180	4,930	6,620
1.600						2,990	3,530	4,210	5,740
1.700						2,500	3,380	4,030	4,950
1.800						2,060	2,830	3,410	4,750
1.900						1,980	2,720	3,280	4,080
2.000						1,910	2,250	2,760	3,930
2.100							2,170	2,660	3,350
2.200								2,210	2,820
2.300								2,140	2,730
2.400									2,650
2.500									2,210
2.600									2,140

AEIC CS8: Specification for extruded dielectric shielded power cables rated 5 through 46kV

AIA: Aluminum Interlock Armor

aluminum: A silvery white, soft, ductile metal, with low density and with ability to resist corrosion

American Society for Testing and Materials (ASTM): A non-profit industry-wide organization which publishes standards, methods of test, recommended practices, definitions and other related material

American Wire Gauge (AWG): A standardized wire gauge system for the diameters of round, solid, nonferrous, electrically conducting wire

Amp: See "ampere"

ampere (Amp): A measure of the amount of electric charge passing a point in an electric circuit per unit time

Armor: A mechanical protector for cables; usually a metal tape (aluminum or galvanized steel) applied helically, applied so that each convolution locks mechanically upon the previous one, also known as interlocked armor.

ASTM: See "American Society for Testing and Materials"

ASTM B231: A standard specification for concentric lay stranded aluminum 1,350 conductors

ASTM B33: A standard specification for tin-coated soft or annealed copper wire for electrical purposes

ASTM B3: A standard specification for soft or annealed copper wire

ASTM B787: A standard specification for 19 wire combination unilay stranded copper conductors for subsequent insulation

ASTM B800: A standard specification for 8000 series aluminum wire for electrical purposes, annealed and intermediate tempers

ASTM B801: A standard specification for concentric lay stranded conductors of 8000 series aluminum alloy for subsequent covering or insulation

ASTM B8: A standard specification for concentric-lay stranded copper conductors, hard, medium-hard or soft

AWG: See "American Wire Gauge"

cable: Two or more wires running side by side and bonded, twisted or braided together to form a single assembly

certified test report (CTR): A report providing actual test data on a cable; tests are normally run by a Quality Control Department, which shows that the product being shipped conforms to test specifications

Chloride Polyethylene: A compound with excellent physical and mechanical properties, such as resistance to oils, temperature, chemicals, and weather.

color code: A color system for circuit identification by use of solid colors, contrasting stripes, tracers, braids, surface marking, etc.

compound: A term used to designate an insulating or jacketing material made by mixing two or more ingredients

conductor: A material which contains movable electric charges; in metallic conductors such as copper or aluminum, the movable charged particles are electrons

control cable: A multi conductor cable designed to operate in industrial power or station control circuits

copper: A ductile metal with very high thermal and electrical conductivity

cross linked: A term for intermolecular bonds that link one polymer chain to another; cross links can be formed by chemical reactions that are initiated by heat, pressure, change in pH, or radiation

CPE: See "Chloride Polyethylene"

CSA FT4: Flame test rating per the Canadian Standards Association. Similar to the UL-1685 Vertical Tray Flame Test, but more severe

CTR: See "certified test report"

CTS: Copper tape shield

dielectric: An insulating material that prevents electrostatic attraction and repulsion between electrical conductors

DIR BUR: see "direct burial"

direct burial: A cable suited for installation directly in the ground without the need of conduit; cable that passed the crushing tests per UL

drain wire: An uninsulated wire that can be bare or tinned copper, which is in contact with an electrostatic shield throughout its length

EPR: A mixture of ethylene propylene base resin and selected ingredients

filler: A material used between multi-conductor cables to occupy large interstices and obtain a circular cross section

flame resistant: A material designed to inhibit or resist the spread of fire

gauge: A term for specifying the thickness (diameter) of a cable

I.L.: see "insulation level"

ICEA: See "Insulated Cable Engineers Association"

ICEA S-58-679: Standard for control, instrumentation and thermocouple extension conductor identification

ICEA S-73-532: A standard specification for control, thermocouple extension, and instrumentation cables

ICEA S-82-552: A standard specification for instrumentation cables and thermocouple wire

ICEA S-93-639: A standard for 5 through 46 kV shielded power cables for use in the transmission and distribution of electric energy

ICEA S-94-649: A standard for concentric neutral cables rated 5 through 46 kV

ICEA S-95-658: A standard specification for power cables rated 2,000 volts or less for the distribution of electrical energy

ICEA S-97-682: A standard for utility shielded power cables rated 5 through 46 kV

ICEA T-29-520: A standard specification for vertical cable tray flame tests at 210,000 BTU

IEEE 1202: Standard for flame testing of cables for use in cable tray

IEEE 383: A standard specification for type test of Class 1E electrical cables, field splices and connections for nuclear power generation stations

IEEE: See "Institute of Electrical and Electronics Engineers"

Institute of Electrical and Electronics Engineers (IEEE): One of the world's largest technical professional societies; a leading authority on areas ranging from aerospace, computers and telecommunications to biomedicine, electric power and consumer electronics

instrumentation cable: A cable designed to operate in control systems, audio, intercom, alarm circuits and energy management

Insulated Cable Engineers Association (ICEA): A professional organization dedicated to developing cable standards for the electric power, control and telecommunications industries

insulation: A material that does not respond to an electric field and resists the flow of electric charge

Insulation level: A thickness rating for power cable insulation. Circuits having fault detectors that interrupt fault currents within one minute are rated 100% level, within one hour are rated 133% level and over one hour are rated 173% level

International Organization for Standardization (ISO): A voluntary, non-treaty organization chartered by the United Nations to define international standards

IS/OS: Individually shielded and overall shielded; typically used in instrumentation cables with pair or triad configurations

ISO: See "International Organization for Standardization"

ITC: Instrumentation tray cable; per UL 2250

jacket: The protective and insulating outer sheath of a cable

laminated shield: A tape with a combination of two or more layers of different materials bonded together

Glossary of Terms

Linear low-density polyethylene:

A thermoplastic compound used for jacketing. It has high tensile strength and high impact and puncture resistance, it is very flexible and elongates under stress.

LLDPE: see "Linear low-density polyethylene"

maximum conductor temperature - continuous operation:

The highest conductor temperature attained by any part of the cable under operating current load

maximum conductor temperature - emergency overload:

The highest conductor temperature attained by any part of the cable during emergency overload of specified time, magnitude and frequency of application

maximum conductor temperature - short circuit:

The highest conductor temperature attained by any part of the cable during a short circuit of specified time and magnitude

MIL: A unit used in measuring diameter of a wire or thickness over a conductor; 1/1,000 of an inch or 0.001"

MV-105: Medium voltages cables rated at 105°C, meeting UL 1072 requirements

MV-90: Medium voltages cables rated at 90°C, meeting UL 1072 requirements

MV: Medium Voltage cables, rated at 5kV through 15kV

National Electrical Code (NEC):

A nationally recognized safety standard for the design, construction and maintenance of electrical circuits

National Electrical Manufacturers Association (NEMA):

A trade association that develops and promotes positions on standards and government regulations

NEC: See "National Electrical Code"

NEMA: See "National Electrical Manufacturers Association"

NPLF: Non-Power Limited Fire alarm circuit cable

nylon: A synthetic polymer, thermoplastic, silky material; nylon is available in glass-filled variants which increase structural and impact strength and rigidity, and molybdenum sulfide-filled variants which increase lubricity

Occupational Safety and Health Administration (OSHA):

The main federal agency charged with the enforcement of safety and health legislation

Ohm: The practical unit of resistance; the resistance that will allow one ampere of current to pass at the electrical potential of one volt

OSHA: See "Occupational Safety and Health Administration"

pair: Two insulated wires twisted together forming a single circuit

PE: See "polyethylene"

PLTC: Power Limited Tray cable; per UL 13

Polyethylene (PE): A thermoplastic compound used for insulation and jacketing

Polyvinyl chloride (PVC): A thermoplastic compound used on Low Voltage conductors for insulation and jacketing

power cables: Cables which are used for the transmission and distribution of electrical energy for normal conditions of installation and service, either indoors, outdoors, aerial, underground, or submarine

PVC: See "Polyvinyl chloride"

RFH-2: NEC type letters for thermoset insulation (XLPE) fixture wire rated 600V in 75°C dry locations. Covers 18 AWG and 16 AWG

rip cord: A cord placed directly under the jacket of a cable in order to facilitate stripping (removal) of the jacket

RoHS (Restriction of Hazardous Substances) Directive:

A European Union directive that restricts the use of certain hazardous substances in new electrical and electronic equipment

RoHS-compliant/RoHS 2-compliant: Describes an electrical or electronic component that complies with the RoHS Directive

sunlight resistant: An optional UL listing that may be obtained for an insulation or jacket compound involving exposure to direct rays of the sun; a cable that passes the UL testing of exposure to 720 hours using carbon-arc or xenon-arc

TC-ER: Tray Cable, Exposed Run; a finished cable that passed the UL impact tests

TC: See "tray cable"

temperature rating: The maximum temperature at which the insulating material may be used in continuous operation without loss of its basic properties

TFN: Thermoplastic insulation (PVC), fixture wire, 90°C rating dry locations, nylon jacket

thermoplastic: A polymer (such as PE or PVC) that turns to a liquid when heated and freezes to a very glassy state when cooled sufficiently

thermoset: A polymer material (such as XLPE) that irreversibly cures; the cure may be done through heat (generally above 200°C), through a chemical reaction (e.g., two-part epoxy) or irradiation (such as electron beam processing)

THHN: Term for a cable with the following properties: thermoplastic insulation (PVC), high heat resistant, 90°C rating, suitable for wet or dry locations and nylon jacket

THWN: Term for a cable with the following properties: thermoplastic insulation (PVC), high heat resistant, 75°C rating, suitable for wet locations and a nylon Jacket

tinned copper: Tin coating added to copper to aid in soldering and inhibit corrosion

tray cable (TC): Used as an alternative to open wiring or electrical conduit systems; commonly used for cable management in commercial and industrial construction

treeing: An electrical pre-breakdown phenomenon which causes insulation damage by progressing through a dielectric section under electrical stress so that, if visible, appears something like a tree without leaves

triad: Three insulated wires twisted together forming a single circuit

Type MC: Metal-Clad, cables that pass the UL 1569 requirements

UD: Underground distribution, cables for underground primary power applications

UL 1072: A standard specification for Medium-Voltage Power Cables

UL 1277: A standard specification for electrical power and control tray cables with optional optical fiber members

UL 13: A standard specification for power-limited circuit cables

UL 1569: A standard specification for Metal-Clad Cables

UL 1685: Vertical-tray fire propagation and smoke-release for electrical and optical-fiber cables

UL 2250: A standard specification for instrumentation tray cables

UL 44: A standard specification for rubber-insulated wires and cables

UL 66: A standard specification for flexible cord and fixture wire

UL 83: A standard specification for thermoplastic-insulated wires and cables

UL: See "Underwriters Laboratories"

Underwriters Laboratories (UL): A privately owned company that charges manufacturers a fee to make sure their products meet various safety standards, some of which UL itself develops

V: See "volt"

volt (V): The unit of measurement of electrical force; voltage is always expressed as the potential difference in available energy between two points; one volt is the force required to produce a current of one ampere through a resistance or impedance of one Ohm

wire: A bare or insulated conductor

wire drawing: A process used to reduce the cross-section of a wire by pulling the wire through a single or series of drawing dies

XHHW-2: Term for a cable with the following properties: cross linked polyethylene insulation (XLPE), high heat-resistant, 90°C rating and suitable for wet and dry locations

XLPE: The term used for cross-linked polyethylene insulation; a popular polymeric type of insulation with outstanding electrical, moisture and physical properties

LS Cable & System U.S.A., Inc.

6120 Powers Ferry Road, Suite 150
Atlanta, Georgia 30339

800.249.0014
Fax 877.291.7917

energy.us@spsx.com
ls.spsx.com

LS Cable & System U.S.A., Inc.

Ed. 16 | August 2017

ls.spsx.com