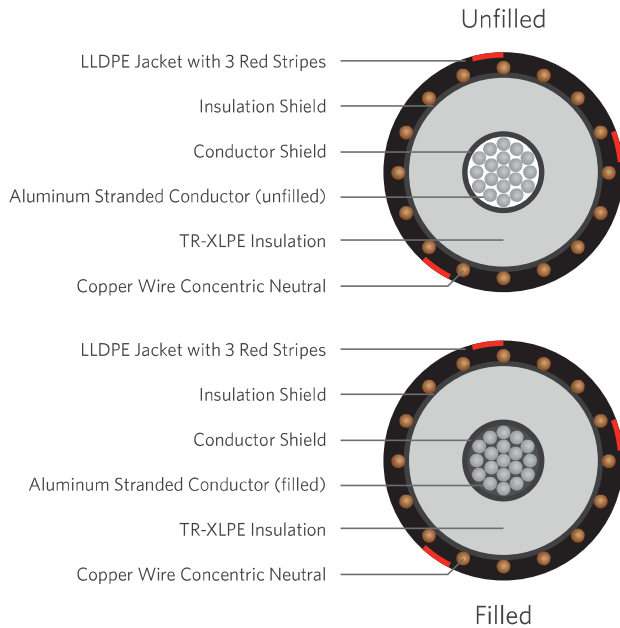


TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 15kV-35kV

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 LS CABLE XXAWG (KCMIL) AL FS 1/C XXXKV 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 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.