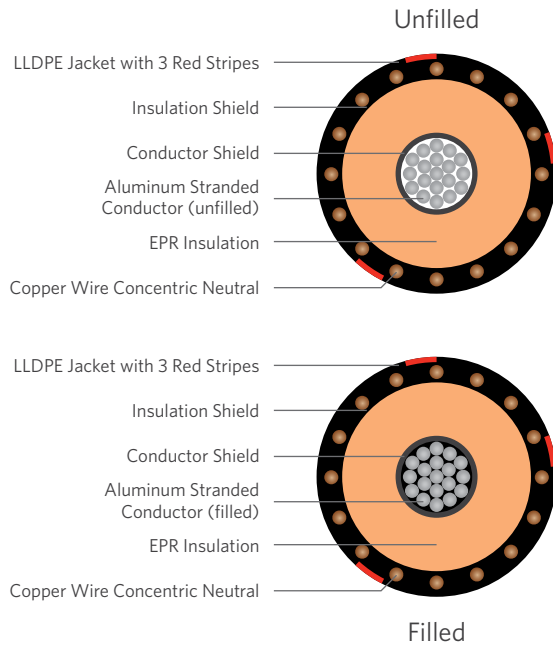


EPR/CN/LLDPE Power, Type Primary UD, 15kV-35kV

Series E9 (Aluminum Conductors)



PRODUCT DESCRIPTION

The Superior Essex 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
- 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 1000 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 MADE IN USA MMDDYYYY
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 AEIC CS8

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: 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, 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: 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 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
E9JPM-4A3F01CA00	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.