

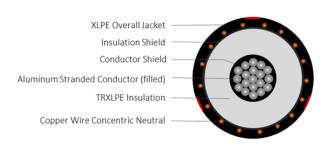
## TR-XLPE/CN/XLPE, Type MV-105, Primary UD, 35kV 100%, 345mils Single Conductor Filled Aluminum - Silicone Free

#### **DESCRIPTION**

This specification covers cables that consist of aluminum filled conductor, covered with tree-retardant cross-linked polyethylene (TR-XLPE), a concentric neutral of helically applied copper wires, and a moisture blocked cross-linked polyethylene (XLPE) jacket with 3 extruded red stripes.

#### **APPLICATIONS**

- Suitable for underground primary power applications: direct burial or in duct.
- For wet or dry locations.
- Jacket is sunlight resistant.
- 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



**SERIES E9MW** 

#### **CONSTRUCTION**

CONDUCTOR	1350 Aluminum (filled) Class B Strand Compressed				
STRAND SHIELD	Thermoset semi-conducting polymer				
INSULATION	Tree-retardant cross-linked polyethylene (TR-XLPE)				
INSULATION SHIELD	Thermoset semi-conducting polymer				
SHIELD	Helically applied, annealed, solid bare copper wires Reduced wire number per ICEA P-45-482 calculations				
JACKET	Moisture blocked Cross-linked Polyethylene (XLPE)				
JACKET MARKING	00000 FT LS CABLE XXXKCMIL (or AWG) FS AL 1/C 35KV 100% INSUL LEVEL 345 MILS TRXLPE 'No. of Neutral' X # 'Neutral size' MB XLPE JKT MV-105 (UL) MADE IN USA MM/DD/YYYY (LIGHTNING BOLT SYMBOL)				
PACKING	Non-returnable reels				

### **STANDARDS (Compliance)**

PERFORMANCE	AEIC CS8 ASTM B3 ASTM B230 ASTM B231 ICEA S-94-649 ICEA T-34-664 UL 1072 NEC
OTHER	EPA 40 CFR, Part 261 OSHA



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SPECIFICATIONS									
Part Number	Conductor Size (AWG or kcmil)	Conductor Diameter (in)	Insulation Diameter (in)	Metallic Shield	Jacket Thickness (in)	Approx. O.D (in)	Approx. Weight (lbs/kft)		
E9MWJ-4A6F01CA20	4/0	0.512	1.23	8 x 14 AWG (1/3N)	0.055	1.57	1,010		
E9MWJ-A66F01CA20	500	0.789	1.51	9 x 14 AWG (1/6N)	0.080	1.90	1,550		
E9MWT-A66F01CA20	500	0.789	1.51	18 x 14 AWG (1/3N)	0.080	1.90	1,655		
E9MWJ-B26F01CA20	750	0.968	1.69	14 x 14 AWG (1/6N)	0.080	2.11	2,030		
E9MWG-B56F01CA20	1000	1.117	1.84	27 x 14 AWG (Custom)	0.080	2.26	2,525		
E9MWJ-B86F01CA20	1250¹	1.250	1.98	23 x 14 AWG (1/6N)	0.080	2.40	2,820		
E9MWG-B86F01CA21	1250¹	1.250	1.98	29 x 12 AWG (Custom)	0.080	2.43	3,155		

The dimensions and weights shown are approximate and subject to industry standards. Other designs available upon request.

<sup>1250</sup> KCMIL may have 61 wires subject to mutual agreement between the manufacturer and customer per ASTM B231 .