

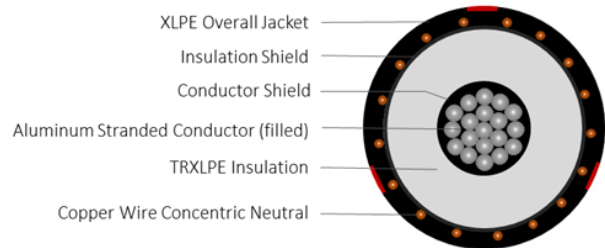
TR-XLPE/CN/XLPE, Type MV-105, Primary UD, 35kV 100%, 345mils Single Conductor Filled Aluminum - Silicone Free

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 XXXXCMIL (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) |
| E9MWU-4A6F01CA20 | 4/0 | 0.512 | 1.23 | 15 x 14 AWG (2/3N) | 0.055 | 1.57 | 1,095 |
| E9MWT-A36F01CA20 | 350 | 0.661 | 1.38 | 13 x 14 AWG (1/3N) | 0.080 | 1.77 | 1,365 |
| 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 |
| E9MWJ-B86F01CA20 | 1250 ¹ | 1.250 | 1.98 | 23 x 14 AWG (1/6N) | 0.080 | 2.40 | 2,820 |

The dimensions and weights shown are approximate and subject to industry standards. Other designs available upon request.
¹1250 KCMIL may have 61 wires subject to mutual agreement between the manufacturer and customer per ASTM B231 .