

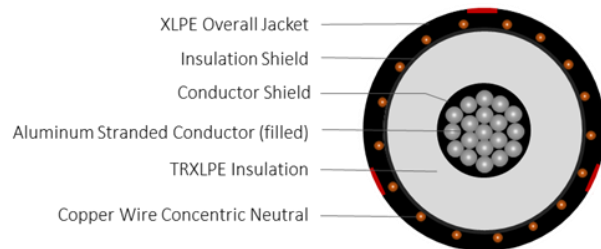
TR-XLPE/CN/XLPE, Type MV-105, Primary UD, 35kV 100%, 345-mils Single Conductor Filled Aluminum - Silicone Free

DESCRIPTION

Medium Voltage Primary Underground Distribution (UD) cables consist of an aluminum (filled) conductor, covered with tree-retardant cross-linked polyethylene (TR-XLPE), a concentric neutral of helically applied copper wires, and 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, meeting the 720-hr exposure test
- 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 U35ATX

CONSTRUCTION

| | |
|--------------------------|---|
| CONDUCTOR | 1350 Aluminum, Class B Strand Compressed (filled) |
| STRAND SHIELD | Thermoset semi-conducting polymer |
| INSULATION | Tree-retardant cross-linked polyethylene (TR-XLPE) |
| INSULATION SHIELD | Thermoset semi-conducting polymer |
| METALIC SHIELD | Helically applied, annealed solid bare copper wires. Reduced wire numbers per ICEA P-45-482 calculations |
| JACKET | Moisture Blocked Cross-Linked Polyethylene (XLPE) Jacket with three red stripes |
| JACKET MARKING | XXXXX FT LS CABLE XXXXKCMIL (or XXXAWG) FS AL 1/C 35 KV 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) |
| PACKAGING | Non-returnable wooden reels |

STANDARDS (Compliance)

| | |
|--------------------|---|
| PERFORMANCE | AEIC CS8 ASTM B3 ASTM B230 ASTM B231 ICEA P-45-482 ICEA T-34-664 ICEA S-94-649 UL 1072 |
|--------------------|---|

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| SPECIFICATIONS | | | | | | | |
|-----------------------|-------------------------------|------------------------------|-------------------------------|----------------------------|----------------------------|-------------------------------|--------------------------------|
| Part Number | Conductor Size (AWG or kcmil) | Nom. Conductor Diameter (in) | Nom. Insulation Diameter (in) | Copper Concentric Neutrals | Nom. Jacket Thickness (in) | Approx. Overall Diameter (in) | Approx. Net Weight (lbs / Mft) |
| U35ATX-75FB-1CZ-R6Z-M | 750kcmil | 0.968 | 1.75 | 14 x 14 AWG (1/6N) | 0.075 | 2.18 | 2,055 |
| U35ATX-A2FB-1CZ-R6Z-M | 1250kcmil ¹ | 1.250 | 2.05 | 23 x 14 AWG (1/6N) | 0.075 | 2.48 | 2,860 |

The dimensions and weights shown are nominal 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.