

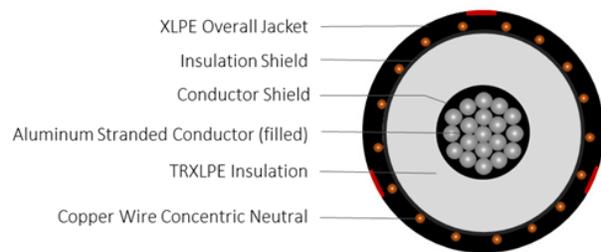
TR-XLPE/CN/XLPE Power, MV-105 Type Primary UD, 35kV 100% Single Conductor Filled Aluminum - Silicone Free

DESCRIPTION

The Medium Voltage 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 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 U35ATX

CONSTRUCTION

| | |
|--------------------------|---|
| CONDUCTOR | Aluminum 1350 (filled) Class B compressed strand |
| STRAND SHIELD | Extruded thermoset semi-conducting polymer over the conductor |
| INSULATION | Tree-retardant cross-linked polyethylene (TR-XLPE) |
| INSULATION SHIELD | Extruded thermoset semi-conducting polymer over the insulation |
| 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 wood reels |

STANDARDS (Compliance)

| | |
|--------------------|--|
| PERFORMANCE | AEIC CS8 ASTM B3 ASTM B230 ASTM B231 ICEA S-94-649 ICEA T-34-664 UL 1072 |
| OTHER | OSHA |

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| SPECIFICATIONS | | | | | | | |
|-----------------------|----------------------------|-------------------------|--------------------------|--------------------------------|-----------------------|------------------|--------------------------|
| Part Number | Conductor Size (AWG/kcmil) | Conductor Diameter (in) | Insulation Diameter (in) | Concentric Neutral (No. x AWG) | Jacket Thickness (in) | Approx. O.D (in) | Approx. Weight (lbs/kft) |
| U35ATX-50FB-1CZ-RQC-M | 500 | 0.789 | 1.56 | 12 x 12 (CUSTOM) | 0.075 | 1.99 | 1,730 |
| U35ATX-A2FB-1CZ-R9Z-M | 1250 ¹ | 1.250 | 2.05 | 15 x 14 (1/9N) | 0.075 | 2.48 | 2,765 |

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.