

TR-XLPE/CN/XLPE, Type MV-105, Primary UD, 15kV 133%, 220-MILS

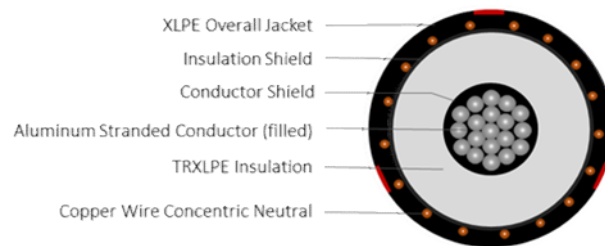
Single Conductor Filled Aluminum -Silicone Free

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.

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



| CONSTRUCTION | | STANDARDS (Compliance) | |
|-------------------|--|------------------------|--|
| CONDUCTOR | 1350 Aluminum (filled) Class B Strand Compressed | PERFORMANCE | AEIC CS8 ASTM B3 ASTM B230 ASTM B231 ICEA S-94-649 ICEA-T-34-664 UL 1072 |
| 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) | | |
| PACKAGING | Non-returnable wooden reels | | |

| SPECIFICATIONS | | | | | | | |
|-----------------------|----------------|-------------------------|--------------------------|--------------------|-----------------------|-------------------------------|------------------------------|
| Part Number | Conductor Size | Conductor Diameter (in) | Insulation Diameter (in) | Metallic Shield | Jacket Thickness (in) | Approx. Overall Diameter (in) | Approx. Net Weight (lbs/kft) |
| U15BTX-35FB-1CZ-R3Z-M | 350 kcmil | 0.661 | 1.17 | 13 x 14 AWG (1/3N) | 0.050 | 1.52 | 1,070 |
| U15BTX-50FB-1CZ-R3Z-M | 500 kcmil | 0.789 | 1.30 | 18 x 14 AWG (1/3N) | 0.050 | 1.65 | 1,340 |

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