

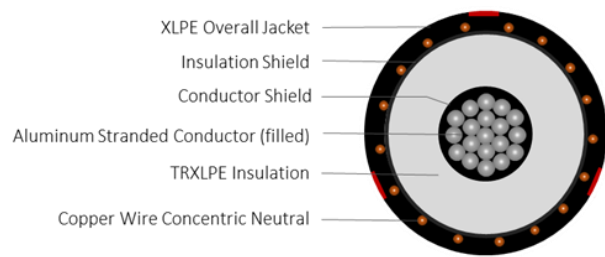
## TR-XLPE/CN/XLPE Power, MV-105 Type Primary UD, 25kV 100% Single Conductor Filled Aluminum - Silicone Free

### 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 U25SATX**

### CONSTRUCTION

|                          |                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONDUCTOR</b>         | Aluminum 1350 (filled)<br>Class B compressed strand                                                                                                                                                           |
| <b>STRAND SHIELD</b>     | Extruded thermoset semi-conducting polymer over the conductor                                                                                                                                                 |
| <b>INSULATION</b>        | Tree-retardant cross-linked polyethylene (TR-XLPE)                                                                                                                                                            |
| <b>INSULATION SHIELD</b> | Extruded thermoset semi-conducting polymer over the insulation                                                                                                                                                |
| <b>SHIELD</b>            | Helically applied, annealed, solid bare copper wires<br>Reduced wire number per ICEA P-45-482 calculations                                                                                                    |
| <b>JACKET</b>            | Moisture blocked cross-linked polyethylene (XLPE)                                                                                                                                                             |
| <b>JACKET MARKING</b>    | 00000 FT LS CABLE XXXKCMIL (or AWG) FS AL 1/C 25KV 100%<br>INSUL LEVEL 260 MILS TRXLPE<br>'No. of Neutral' X # 'Neutral size'<br>MB XLPE JKT MV-105 (UL)<br>MADE IN USA MM/DD/YYYY<br>(LIGHTNING BOLT SYMBOL) |
| <b>PACKING</b>           | Non-returnable wood reels                                                                                                                                                                                     |

### STANDARDS (Compliance)

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

## TR-XLPE/CN/XLPE Power, MV-105 Type Primary UD, 25kV 100% Single Conductor Filled Aluminum - Silicone Free

| 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) |
| U25ATX-50FB-1CZ-RCZ-M | 500                        | 0.789                   | 1.39                     | 6 x 14 (1/12N)                 | 0.075                 | 1.78             | 1,335                    |
| U25ATX-75FB-1CZ-RCZ-M | 750                        | 0.968                   | 1.58                     | 8 x 14 (1/12N)                 | 0.075                 | 1.98             | 1,715                    |
| U25ATX-A1FB-1CZ-RCZ-M | 1000                       | 1.117                   | 1.73                     | 10 x 14 (1/12N)                | 0.075                 | 2.16             | 2,120                    |
| U25ATX-A2FB-1CZ-RCZ-M | 1250 <sup>1</sup>          | 1.250                   | 1.88                     | 12 x 14 (1/12N)                | 0.075                 | 2.30             | 2,480                    |

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

<sup>1</sup>1250 KCMIL may have 61 wires subject to mutual agreement between the manufacturer and customer per ASTM B231 .