

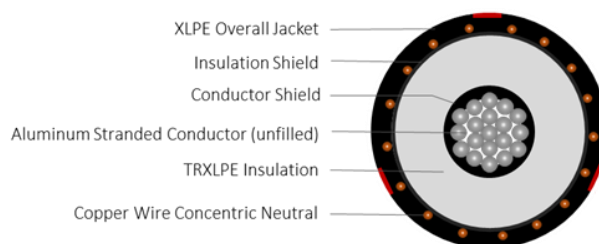
## TR-XLPE/CN/XLPE Power, MV-105 Type Primary UD, 35kV 100% Single Conductor Un-Filled Aluminum - Silicone Free

### DESCRIPTION

The Medium Voltage Underground Distribution (UD) cables consist of an aluminum un-filled conductor, covered with tree-retardant cross-linked polyethylene (TR-XLPE), a concentric neutral of helically applied copper wires, and a 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

|                          |                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONDUCTOR</b>         | Aluminum 1350 (unfilled)<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>            | Cross-linked polyethylene (TR-XLPE)                                                                                                                                                                     |
| <b>JACKET MARKING</b>    | 00000 FT LS CABLE XXXKCMIL (or AWG) AL 1/C 35KV 100%<br>INSUL LEVEL 345 MILS TRXLPE<br>'No. of Neutral' X # 'Neutral size'<br>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>UL 1072 |
| <b>OTHER</b>       | OSHA                                                                      |

## TR-XLPE/CN/XLPE Power, MV-105 Type Primary UD, 35kV 100% Single Conductor Un-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) |
| U35ATX-4AAB-1CZ-RDZ-Z | 4/0                        | 0.512                   | 1.27                     | 15 x 14 (2/3N)                 | 0.050                 | 1.62             | 1,105                    |
| U35ATX-4AAB-1CZ-R1Z-Z | 4/0                        | 0.512                   | 1.27                     | 22 x 14 (FCN)                  | 0.050                 | 1.62             | 1,185                    |

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