

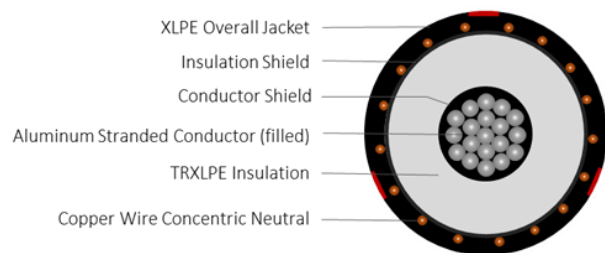
## TR-XLPE/CN/XLPE Power, MV-105 Type Primary UD, 35kV 133% Single Conductor Filled Aluminum - Silicone Free

### 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 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 (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           |

**JACKET** cross-linked polyethylene (XLPE)

|                       |                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>JACKET MARKING</b> | 00000 FT LS CABLE XXXKCMIL (or AWG) FS AL 1/C 35KV 133%<br>INSUL LEVEL 420 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) |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**PACKING** 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-31-610<br>UL 1072 |
| <b>OTHER</b>       | OSHA                                                                                       |

## TR-XLPE/CN/XLPE Power, MV-105 Type Primary UD, 35kV 133% 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) |
| U35BTX-4AFB-1CZ-R3Z-Z | 4/0 AWG                    | 0.512                   | 1.42                     | 8 x 14 AWG (1/3N)              | 0.075                 | 1.82             | 1,235                    |
| U35BTX-35FB-1CZ-R3Z-Z | 350kcmil                   | 0.661                   | 1.58                     | 13 x 14 AWG (1/3N)             | 0.075                 | 1.98             | 1,560                    |
| U35BTX-50FB-1CZ-R3Z-Z | 500kcmil                   | 0.789                   | 1.71                     | 18 x 14 AWG (1/3N)             | 0.075                 | 2.14             | 1,910                    |
| U35BTX-75FB-1CZ-R3Z-Z | 750kcmil                   | 0.968                   | 1.91                     | 26 x 14 AWG (1/3N)             | 0.075                 | 2.34             | 2,410                    |
| U35BTX-A1FB-1CZ-R3Z-Z | 1000kcmil                  | 1.117                   | 2.06                     | 23 x 12 AWG (1/3N)             | 0.075                 | 2.52             | 2,950                    |
| U35BTX-A5FB-1CZ-R3Z-Z | 1500kcmil                  | 1.370                   | 2.33                     | 21 x 10 AWG (1/3N)             | 0.075                 | 2.83             | 3,920                    |

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