

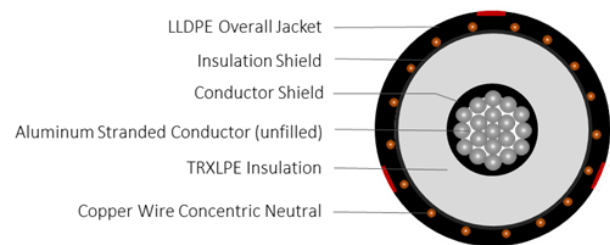
## TR-XLPE/CN/LLDPE Power, MV-90 Type Primary UD, 35kV 100% Single Conductor Un-Filled Aluminum - Silicone Free

### 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 linear low-density polyethylene (LLDPE) 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
  - » 90°C for normal operations
  - » 130°C for emergency overload
  - » 250°C for short circuit



**SERIES U35ATL**

### 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                                                                                                                                                    |
| <b>JACKET</b>            | Linear low-density polyethylene (LLDPE)                                                                                                                                                                 |
| <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>LLDPE JKT MV-90 (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/LLDPE Power, MV-90 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) |
| U35ATL-1AAB-1CZ-R1Z-Z | 1/0                        | 0.362                   | 1.12                     | 16 x 14 (FCN)                  | 0.050                 | 1.46             | 910                      |
| U35ATL-4AAB-1CZ-R2Z-Z | 4/0                        | 0.512                   | 1.27                     | 16 x 14 (1/2N)                 | 0.050                 | 1.62             | 1,115                    |
| U35ATL-50AB-1CZ-R3Z-Z | 500                        | 0.789                   | 1.56                     | 25 x 14 (1/3N)                 | 0.075                 | 1.96             | 1,755                    |
| U35ATL-50AB-1CZ-R2Z-Z | 500                        | 0.789                   | 1.56                     | 24 x 12 (1/2N)                 | 0.075                 | 1.99             | 1,950                    |
| U35ATL-75AB-1CZ-R6Z-Z | 750                        | 0.968                   | 1.75                     | 19 x 14 (1/6N)                 | 0.075                 | 2.18             | 2,105                    |
| U35ATL-A1AB-1CZ-R6Z-Z | 1000                       | 1.117                   | 1.91                     | 25 x 14 (1/6N)                 | 0.075                 | 2.33             | 2,525                    |
| U35ATL-A2AB-1CZ-R6Z-Z | 1250 <sup>1</sup>          | 1.250                   | 2.05                     | 31 x 14 (1/6N)                 | 0.075                 | 2.48             | 2,945                    |
| U35ATL-A5AB-1CZ-R9Z-Z | 1500                       | 1.370                   | 2.17                     | 25 x 14 (1/9N)                 | 0.075                 | 2.60             | 3,170                    |

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 .