

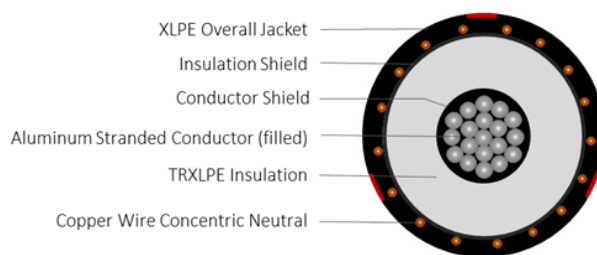
## TR-XLPE/CN/XLPE Power, MV-105 Type Primary UD, 35kV 100% Single Conductor Filled Aluminum - Silicone Free

### 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 U35ATX**

### CONSTRUCTION

<b>CONDUCTOR</b>	Aluminum 1350 (filled) 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>	Moisture blocked cross-linked polyethylene (XLPE)
<b>JACKET MARKING</b>	00000 FT LS CABLE XXXKCMIL (or AWG) FS AL 1/C 35KV 100% INSUL LEVEL 345 MILS TRXLPE 'No. of Neutral' X # 'Neutral size' MB XLPE JKT MV-105 (UL) MADE IN USA MM/DD/YYYY (LIGHTNING BOLT SYMBOL)
<b>PACKING</b>	Non-returnable wood reels

### STANDARDS (Compliance)

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

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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-50FB-1CZ-R1Z-M	500kcmil	0.789	1.56	21 x 10 AWG (FCN)	0.075	2.04	2,180
U35ATX-75FB-1CZ-R1Z-M	750kcmil	0.968	1.75	31 x 10 AWG (FCN)	0.075	2.26	2,920
U35ATX-A1FB-1CZ-R1Z-M	1000kcmil	1.117	1.91	26 x 8 AWG (FCN)	0.075	2.47	3,675
U35ATX-A2FB-1CZ-R3Z-M	1250kcmil <sup>1</sup>	1.250	2.05	28 x 12 AWG (1/3N)	0.075	2.51	3,170
U35ATX-A5FB-1CZ-R3Z-M	1500kcmil	1.370	2.17	21 x 10 AWG (1/3N)	0.075	2.68	3,665

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.