

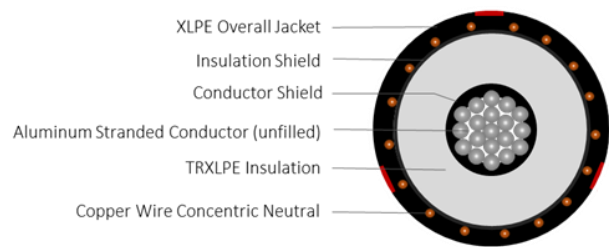
## TR-XLPE/CN/XLPE Power, MV-105 Type Primary UD, 35kV 133% Single Conductor Un-Filled Aluminum - Silicone Free

### 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 U35BTX**

### CONSTRUCTION

<b>CONDUCTOR</b>	Aluminum 1350 (unfilled) 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 Reduced wire number per ICEA P-45-482 calculations
<b>JACKET</b>	Cross-linked polyethylene (XLPE)
<b>JACKET MARKING</b>	00000 FT LS CABLE XXXXCMIL (or AWG) AL 1/C 35KV 133% INSUL LEVEL 420 MILS TRXLPE 'No. of Neutral' X # 'Neutral size' 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 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)
U35BTX-50AB-1CZ-R3Z-Z	500	0.789	1.71	18 x 14 (1/3N)	0.075	2.14	1,905
U35BTX-A1AB-1CZ-R3Z-Z	1000	1.117	2.06	23 x 12 (1/3N)	0.075	2.52	2,940

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