

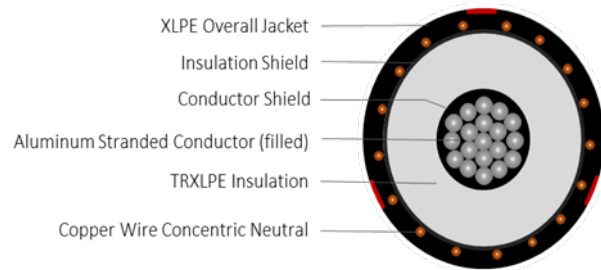
TR-XLPE/CN/XLPE Power, Type MV-105, Primary UD, 35kV 133% Single Conductor Filled Aluminum - Silicone Free

DESCRIPTION

The Medium Voltage Underground Distribution (UD) cables consist of a filled aluminum 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



CONSTRUCTION

CONDUCTOR	Aluminum 1350 (filled) Class B compressed strand
STRAND SHIELD	Extruded thermoset semi-conducting polymer over the conductor
INSULATION	Tree-retardant cross-linked polyethylene (TR-XLPE)
INSULATION SHIELD	Extruded thermoset semi-conducting polymer over the insulation
SHIELD	Helically applied, annealed, solid bare copper wires
JACKET	Moisture blocked cross-linked polyethylene (XLPE)
JACKET MARKING	00000 FT LS CABLE XXXKCMIL (or AWG) FS AL 1/C 35KV 133% INSUL LEVEL 220 MILS TRXLPE 'No. of Neutral' X # 'Neutral size' MB XLPE JKT MV-105 (UL) MADE IN USA MM/DD/YYYY (LIGHTNING BOLT SYMBOL)
PACKING	Non-returnable wood reels

STANDARDS (Compliance)

PERFORMANCE	AEIC CS8 ASTM B3 ASTM B230 ASTM B231 ICEA S-94-649 ICEA T-34-664 UL 1072
OTHER	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-2AFB-1CZ-R3Z-M	2/0 AWG	0.405	1.31	6 x 14 AWG (1/3N)	0.050	1.66	1,000
U35BTX-25FB-1CZ-R3Z-M	250 kcmil	0.558	1.48	10 x 14 AWG (1/3N)	0.075	1.88	1,345
U35BTX-50FB-1CZ-R3Z-M	500 kcmil	0.789	1.71	18 x 14 AWG (1/3N)	0.075	2.14	1,910

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