

SPEC: LSCUS-25-CM10028 REV: 00 DATE: 05.01.25

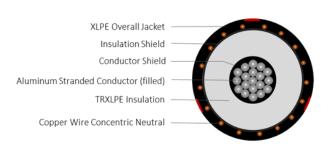
TR-XLPE/CN/XLPE Power, MV-105 Type Primary UD, 35kV 100% Single Conductor Filled Aluminum - Silicone Free

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

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 Reduced wire number per ICEA P-45-482 calculations				
JACKET	Moisture blocked cross-linked polyethylene (XLPE)				
JACKET MARKING	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)				
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)			
U35ATX-35FB-1CZ-R3Z-M	350	0.661	1.43	13 x 14 (1/3N)	0.075	1.83	1,380			
U35ATX-75FB-1CZ-R6Z-M	750	0.968	1.75	14 x 14 (1/6N)	0.075	2.18	2,055			
U35ATX-A2FB-1CZ-R8Z-M	1250¹	1.250	2.05	17 x 14 (1/8N)	0.075	2.48	2,790			

The dimensions and weights shown are approximate and subject to industry standards. Other designs available upon request. ¹1250 KCMIL may have 61 wires subject to mutual agreement between the manufacturer and customer per ASTM B231 .