



# TR-XLPE/CN/LLDPE, Type MV-90, Primary UD, 35kV 100%, 345-MILS Single Conductor Filled Aluminum -Silicone Free

## DESCRIPTION

This specification covers cables that consist of Aluminum filled conductor, covered with tree-retardant cross-linked polyethylene (TR-XLPE), a concentric neutral of helically applied copper wires, and a moisture blocked 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, meeting the 720-hr exposure test
- 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		STANDARDS (Compliance)	
<b>CONDUCTOR</b>	1350 Aluminum (filled) Class B Strand Compressed	<b>PERFORMANCE</b>	AEIC CS8 ASTM B-3 ASTM B-230 ASTM B-231 ICEA S-94-649 ICEA-T-34-664 ICEA-T-31-610 UL 1072
<b>STRAND SHIELD</b>	Thermoset semi-conducting polymer		
<b>INSULATION</b>	Tree-retardant cross-linked polyethylene (TR-XLPE)		
<b>INSULATION SHIELD</b>	Thermoset semi-conducting polymer		
<b>SHIELD</b>	Helically applied, annealed, solid bare copper wires		
<b>JACKET</b>	Moisture blocked Linear low-density polyethylene (LLDPE)		
<b>PACKAGING</b>	Non-returnable wooden reels		

SPECIFICATIONS							
Part Number	Conductor Size	Conductor Diameter (in)	Insulation Diameter (in)	Metallic Shield	Jacket Thickness (in)	Approx. Overall Diameter (in)	Approx. Net Weight (lbs/kft)
E9MKT-B26F01CA20	750 kcmil	0.968	1.69	24 x 12 AWG (1/3N)	0.080	2.18	2419

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

## ELECTRICAL CHARACTERISTICS

Part Number	Ampacity*	Positive / Negative Impedance [Ω/mile]	Zero Sequence Impedance [Ω/mile]
E9MKT-B26F01CA20	580 A	0.178428 + j0.212627	0.539758 + j0.100005

*\*Reference ICEA P-117-734, Table 7-23 for Figure 6-3 Single Circuit Flat Direct Buried,  
Operating temp. 105°C, RHO 90, Load Factor 100%, Ambient temp. 25°C*