

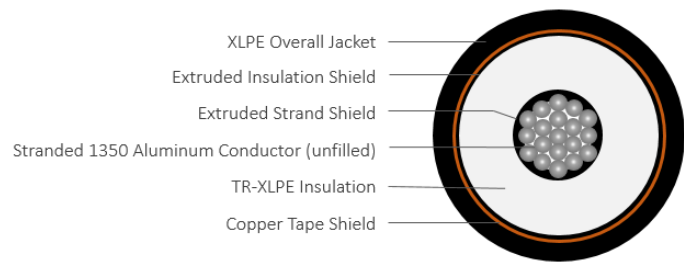
**TR-XLPE/CTS/XLPE, Type MV-105, 35kV 100%, 345-MILS**  
**Single Conductor Un-Filled Aluminum -Silicone Free**

**DESCRIPTION**

This specification covers cables that consist of Aluminum un-filled conductor, covered with tree-retardant cross-linked polyethylene (TR-XLPE), copper taped shield (CTS) and a cross-linked polyethylene (XLPE) jacket.

**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 (unfilled) Class B Strand Compressed	<b>PERFORMANCE</b>	AEIC CS8 ASTM B-230 ASTM B-231 ICEA S-97-682 ICEA S-93-639 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>	5-mil copper tape with a 25% overlap Reduced wire number per ICEA P-45-482		
<b>JACKET</b>	Cross-linked Polyethylene (XLPE)		
<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)
E8MWE-4A3F01CA00	4/0 AWG	0.51	1.23	CTS with 25% overlap	0.075	1.46	974
E8MWE-A63F01CA00	500 kcmil	0.79	1.51	CTS with 25% overlap	0.105	1.81	1,564
E8MWE-B23F01CA00	750 kcmil	0.97	1.69	CTS with 25% overlap	0.105	1.99	1,949
E8MWE-B53F01CA00	1000 kcmil	1.12	1.84	CTS with 25% overlap	0.105	2.14	2,299
E8MWE-B83F01CA00	1250 kcmil	1.25	1.98	CTS with 25% overlap	0.105	2.28	2,649

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