

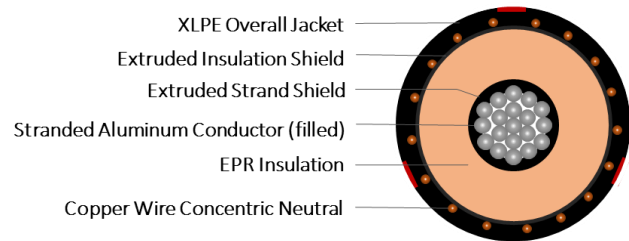
EPR/CN/XLPE, Type MV-105, 35kV 133%, 420-mils—Silicone Free Single Conductor Filled Aluminum

DESCRIPTION

Medium Voltage Primary Underground Distribution (URD) cables consist of an aluminum (filled) conductor, covered with ethylene propylene rubber (EPR), a concentric neutral of helically applied copper wires, and a cross-linked polyethylene (XLPE) moisture blocked 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



SERIES E9MYT

CONSTRUCTION

CONDUCTOR	1350 Aluminum, Class B Strand Compressed (filled)
STRAND SHIELD	Thermoset semi-conducting polymer
INSULATION	Ethylene Propylene Rubber (EPR)
INSULATION SHIELD	Thermoset semi-conducting polymer
SHIELD	Helically applied, annealed solid bare copper wires Reduced wire numbers per ICEA P-45-482 calculations
JACKET	Moisture blocked Cross-Linked Polyethylene (XLPE) jacket with three red stripes
PACKAGING	Non-returnable reels

STANDARDS (Compliance)

PERFORMANCE	AEIC CS8 ASTM B3 ASTM B230 ASTM B231 ICEA P-45-482 ICEA S-94-649 ICEA T-34-664 UL 1072
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SPECIFICATIONS							
Part Number	Conductor Size (kcmil)	Conductor Diameter (in)	Insulation Diameter (in)	Copper Concentric Neutrals (1/3 Neutral)	Jacket Thickness (in)	Overall Diameter (in)	Net Weight (lbs / Mft)
E9NYT-A16F01CA20	250	0.558	1.43	10 x 14AWG	0.080	1.82	1,460
E9NYT-A66F01CA20	500	0.789	1.66	19 x 14AWG	0.080	2.08	2,060
E9NYT-B26F01CA20	750	0.968	1.84	18 x 12AWG	0.080	2.29	2,640
E9NYT-B56F01CA20	1000	1.117	1.99	23 x 12AWG	0.080	2.44	3,110
E9NYT-B86F01CA20	1250	1.250	2.13	19 x 10AWG	0.080	2.62	3,690

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

ELECTRICAL CHARACTERISTICS						
Part Number	Direct Buried*			In Duct**		
	Ampacity (Amps)	Positive Sequence Impedance ($\mu \Omega$ /ft)	Zero Sequence Impedance ($\mu \Omega$ /ft)	Ampacity (Amps)	Positive Sequence Impedance ($\mu \Omega$ /ft)	Zero Sequence Impedance ($\mu \Omega$ /ft)
E9NYT-A16F01CA20	350	97 + j82	342 + j52	277	98 + j49	342 + j18
E9NYT-A66F01CA20	519	48 + j74	180 + j48	415	49 + j44	180 + j19
E9NYT-B26F01CA20	639	33 + j69	123 + j46	512	34 + j42	123 + j19
E9NYT-B56F01CA20	758	24 + j66	96 + j44	604	25 + j40	96 + j18
E9NYT-B86F01CA20	863	19 + j63	74 + j43	706	20 + j39	74 + j18

*Direct Burial: Three single conductors, spaced 7.5 inches apart, direct buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C*cm/Watt, 36 inch depth

**In Duct: Three single cables in triangular configuration, PVC duct, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C*cm/Watt, 36 inch depth