

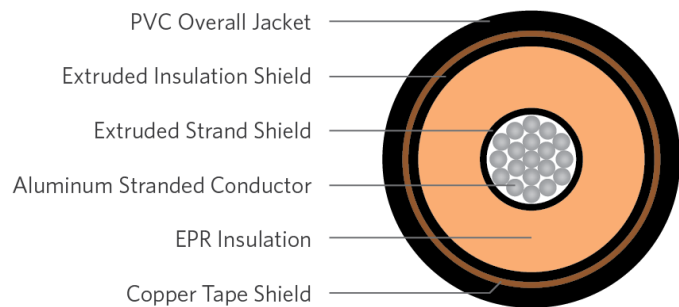
EPR/CTS/PVC Power, Type MV-105, 35kV (133%) 420-mils
1C 500kcmil 61-wires Al 8000 CMPCT 35kV (133%) 420-MILS EPR Cu Tape Shield PVC
 Part Number: E8NLE-A64E01CA00

DESCRIPTION

The Medium Voltage, EPR/Cu Tape Shield/PVC, Type MV-105 Cable consists of compact 8000 Al stranded conductors, covered with ethylene propylene rubber (EPR), copper tape shield, and black PVC jacket. These cables are used in industrial power circuits.

APPLICATION

- In conduit, duct, free air, and raceways, primary installations include cable trays, and outdoor locations
- • Approved for Class I, Div. 2 industrial hazardous locations per NEC
- 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



SPECIFICATIONS

Conductor	Aluminum 8000 compact Class B strand	Packaging	Non-returnable reels
Insulation	EPR	Performance	ASTM B-836 UL 1072 ICEA S-93-639 ICEA S-97-682 AEIC CS8 UL 1685 Vertical Flame Test NEC
Conductor Strand Shield	Extruded thermoset semi-conducting	Other	EPA 40 CFR, Part 261
Copper Tape Shield	5-mil with 25% overlap	Compliances	OSHA
Jacket	PVC		

PART NUMBER AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size (AWG/kcmil)	Conductor Diameter (in.)	Insulation Diameter (in.)	Jacket Thickness (in.)	Overall Diameter (in.)	Net Weight (lbs./MFT)
E8NLE-A64E01CA00	500	0.738	1.63	0.110	1.93	1,905

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

ELECTRICAL AND ENGINEERING DATA

Cdr Size	DC ¹	AC ¹	X _c ²	X _L	Pos Sequence	Zero	Current ⁶
	@ 25°C	@ 25°C	@ 60Hz	@ 60Hz	Impedance	Sequence	Cycles
	Ω/MFT	Ω/MFT	Ω/MFT	Ω/MFT	Ω/MFT	Impedance	Amps
500	0.035	0.046	0.038	0.044	0.046+j0.043	0.344+j0.019	5717

¹ temperature adjusted from 20C using AL Assoc. Formula 3-5

² calculated from capacitance value in CYMCAP