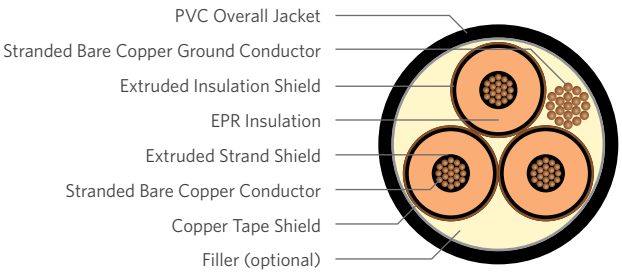
EPR/CTS/PVC Power, Type MV-105, 3 Conductor

Series E8

Besten Wire and Cable Corporation



PRODUCT DESCRIPTION

The Superior Essex 3 Conductor MV-105 Power Cables consist of fully annealed bare copper Class B stranded conductors, covered with ethylene propylene rubber (EPR), copper tape shield, and black PVC jacket. These cables are used in industrial power circuits.

APPLICATIONS

- In conduit, duct, free air, and raceways, primary installations include cable trays, and outdoor locations
- Direct burial
- In wet or dry locations

FEATURES

- Rated at 105°C wet or dry
- Excellent corona resistance
- High dielectric strength
- Low moisture absorption
- Low dielectric loss
- Excellent sunlight resistance
- For CT USE for sizes 1/0AWG and larger
- Meets cold bend test at -35°C

SPECIFICATIONS

Conductor Count	3 conductor
Conductor	Fully annealed bare copper Class B compressed strand
Gauge Sizes	Available in 2 AWG through 500 kcmil
Conductor Strand Shield	Extruded thermoset semi-conducting polymer over the conductor
Insulation	Ethylene Propylene Rubber (EPR)
Insulation Shield	Extruded thermoset semi-conducting polymer over the insulation
Shield	Annealed copper tape helically applied with a 25% overlap
Fillers	Non-hygroscopic fillers, as necessary to obtain a circular cross section
Ground Conductor	Uninsulated bare copper ground
Overall Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG 3/C XXKV XXX% INSUL LEVEL XXXMILS EPR/PVC JKT TYPE MV-105 (UL) SUN RES MADE IN USA MMDDYYYY
Packaging	Non-returnable reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8 UL 1072 ICEA S-93-639/NEMA WC74 ICEA S-97-682 AEIC CS8 IEEE 1202 NEC
Other Compliances	EPA 40 CFR, Part 261 OSHA

PRODUCT KEY

Conductor	Stranding	Voltage	Insulation (CCV)	Shield	Jacket
Cu	B	MV	EPR	Copper Tape	PVC

5kV 133%/8kV 100% I.L., 115-mils, Shielded Series E8FLR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Conductor Diameter in	Insulation Diameter in (mm)	Ground Wire AWG	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)	Ampacity	
								In Air	Duct
E8FLR-021B03CB00	2	0.283	0.563 (14.31)	6	0.080 (2.03)	1.614 (41.0)	1,644 (2,446)	165	160
E8FLR-011B03CB00	1	0.322	0.602 (15.29)	4	0.080 (2.03)	1.762 (44.8)	1,976 (2,940)	190	185
E8FLR-1A1B03CB00	1/0	0.362	0.642 (16.31)	4	0.080 (2.03)	1.848 (46.9)	2,268 (3,375)	215	210
E8FLR-2A1B03CB00	2/0	0.405	0.685 (17.41)	4	0.080 (2.03)	1.940 (49.3)	2,594 (3,860)	255	235
E8FLR-3A1B03CB00	3/0	0.456	0.736 (18.69)	3	0.080 (2.03)	2.050 (52.1)	3,033 (4,513)	290	275
E8FLR-4A1B03CB00	4/0	0.512	0.792 (20.12)	3	0.110 (2.79)	2.170 (55.1)	3,529 (5,252)	320	305
E8FLR-A11B03CB00	250	0.558	0.838 (21.29)	2	0.110 (2.79)	2.269 (57.6)	4,004 (5,958)	350	335
E8FLR-A31B03CB00	350	0.661	0.941 (23.91)	2	0.110 (2.79)	2.491 (63.3)	5,245 (7,805)	430	400
E8FLR-A61B03CB00	500	0.789	1.069 (27.15)	1	0.140 (3.55)	2.825 (71.7)	7,058 (11,616)	525	485

The dimensions and weights shown are nominal and subject to industry standards. Other designs available upon request.
Ampacities are in accordance with Table 310.60 of the NEC.

15kV 133% I.L., 220-mils, Shielded Series E8JLR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Conductor Diameter in	Insulation Diameter in (mm)	Ground Wire AWG	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)	Ampacity	
								In Air	Duct
E8JLR-021B03CB00	2	0.283	0.793 (20.14)	6	0.110 (2.79)	2.172 (55.2)	2,434 (3,623)	165	160
E8JLR-011B03CB00	1	0.322	0.832 (21.13)	4	0.110 (2.79)	2.256 (57.3)	2,749 (4,091)	190	185
E8JLR-1A1B03CB00	1/0	0.362	0.872 (22.15)	4	0.110 (2.79)	2.342 (59.5)	3,069 (4,567)	215	210
E8JLR-2A1B03CB00	2/0	0.405	0.915 (23.24)	4	0.110 (2.79)	2.435 (61.8)	3,429 (5,103)	255	235
E8JLR-3A1B03CB00	3/0	0.456	0.966 (24.54)	3	0.110 (2.79)	2.544 (64.6)	3,916 (5,827)	290	275
E8JLR-4A1B03CB00	4/0	0.512	1.022 (25.96)	3	0.110 (2.79)	2.665 (67.7)	4,475 (6,659)	320	305
E8JLR-A11B03CB00	250	0.558	1.068 (27.13)	2	0.110 (2.79)	2.824 (71.7)	5,168 (7,690)	350	335
E8JLR-A31B03CB00	350	0.661	1.171 (29.74)	2	0.140 (3.55)	3.045 (77.3)	6,289 (9,359)	430	400
E8JLR-A61B03CB00	500	0.789	1.299 (32.99)	1	0.140 (3.55)	3.320 (84.3)	8,102 (12,057)	525	485

The dimensions and weights shown are nominal and subject to industry standards. Other designs available upon request.
Ampacities are in accordance with Table 310.60 of the NEC.