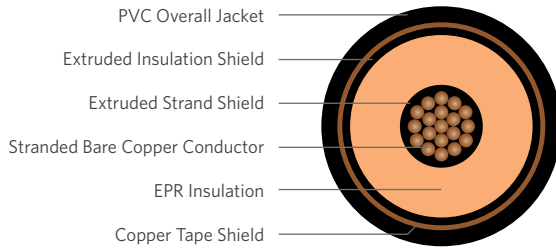
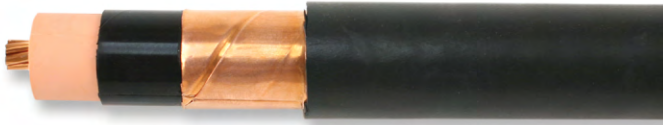


EPR/CTS/PVC Power, Type MV-105

Series E8



PRODUCT DESCRIPTION

The Superior Essex Medium Voltage, EPR/Cu Tape Shield/PVC, Type MV-105 Cable 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
- In direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4 (A)(5)
- 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 1/0 AWG and larger
- Meets cold bend test at -35°C

SPECIFICATIONS

Conductor Count	1 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	5-mils annealed copper tape helically applied with a 25% overlap
Jacket	Polyvinyl Chloride (PVC)
Jacket Marking	00000 FT SUPERIOR ESSEX XXAWG 1/C XXXKV XXX% INSUL LEVEL XXXMILS EPR/PVC JKT TYPE MV-105 (UL) SUN RES MADE IN USA MMDDYYYY
Packaging	Non-returnable wood reels in a variety of lengths and dimensions
Performance Compliances	ASTM B8 UL 1072 ICEA 5-93-639/NEMA WC74 ICEA 5-97-682 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 100% I.L., 90-mils, Shielded Series E8ELE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Conductor Diameter in	Insulation Diameter in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)	Ampacity	
							In Air	Duct
E8ELE-021B01CA00	2	0.283	0.513 (13.03)	0.060 (1.52)	0.756 (19.2)	461 (686)	165	165
E8ELE-011B01CA00	1	0.322	0.552 (14.02)	0.060 (1.52)	0.795 (20.3)	534 (795)	190	185
E8ELE-1A1B01CA00	1/0	0.362	0.592 (15.04)	0.060 (1.52)	0.835 (21.1)	621 (924)	215	215
E8ELE-2A1B01CA00	2/0	0.405	0.635 (16.13)	0.060 (1.52)	0.914 (23.2)	758 (1,128)	255	245
E8ELE-3A1B01CA00	3/0	0.456	0.686 (17.42)	0.080 (2.03)	0.965 (24.5)	891 (1,326)	290	275
E8ELE-4A1B01CA00	4/0	0.512	0.742 (18.85)	0.080 (2.03)	1.021 (26.0)	1,055 (1,570)	330	315
E8ELE-A11B01CA00	250	0.558	0.788 (20.02)	0.080 (2.03)	1.067 (27.1)	1,199 (1,784)	365	345
E8ELE-A31B01CA00	350	0.661	0.891 (22.63)	0.080 (2.03)	1.170 (29.7)	1,562 (2,324)	440	415
E8ELE-A61B01CA00	500	0.789	1.019 (25.88)	0.080 (2.03)	1.298 (32.9)	2,089 (3,108)	535	500

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.

5kV 133%/8kV 100% I.L., 115-mils, Shielded Series E8FLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Conductor Diameter in	Insulation Diameter in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)	Ampacity	
							In Air	Duct
E8FLE-021B01CA00	2	0.283	0.563 (14.31)	0.060 (1.52)	0.806 (20.5)	498 (741)	165	165
E8FLE-011B01CA00	1	0.322	0.602 (15.29)	0.060 (1.52)	0.881 (22.4)	603 (898)	190	185
E8FLE-1A1B01CA00	1/0	0.362	0.642 (16.31)	0.060 (1.52)	0.921 (23.4)	692 (1,032)	215	215
E8FLE-2A1B01CA00	2/0	0.405	0.685 (17.41)	0.060 (1.52)	0.964 (24.5)	801 (1,194)	255	245
E8FLE-3A1B01CA00	3/0	0.456	0.736 (18.69)	0.080 (2.03)	1.015 (25.8)	937 (1,395)	290	275
E8FLE-4A1B01CA00	4/0	0.512	0.792 (20.12)	0.080 (2.03)	1.071 (27.2)	1,102 (1,643)	330	315
E8FLE-A11B01CA00	250	0.558	0.838 (21.29)	0.080 (2.03)	1.117 (28.4)	1,248 (1,860)	365	345
E8FLE-A31B01CA00	350	0.661	0.941 (23.91)	0.080 (2.03)	1.220 (31.0)	1,615 (2,407)	440	415
E8FLE-A61B01CA00	500	0.789	1.069 (27.15)	0.080 (2.03)	1.348 (34.2)	2,148 (3,200)	535	500

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 100% I.L., 175-mils, Shielded Series E8HLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Conductor Diameter in	Insulation Diameter in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)	Ampacity	
							In Air	Duct
E8HLE-021B01CA00	2	0.283	0.693 (17.61)	0.060 (1.52)	0.972 (24.7)	636 (946)	165	165
E8HLE-011B01CA00	1	0.322	0.732 (18.59)	0.060 (1.52)	1.011 (25.6)	716 (1,066)	190	185
E8HLE-1A1B01CA00	1/0	0.362	0.772 (19.61)	0.060 (1.52)	1.051 (26.7)	810 (1,205)	215	215
E8HLE-2A1B01CA00	2/0	0.405	0.815 (20.71)	0.060 (1.52)	1.094 (27.8)	923 (1,374)	255	245
E8HLE-3A1B01CA00	3/0	0.456	0.866 (22.01)	0.080 (2.03)	1.145 (29.1)	1,064 (1,583)	290	275
E8HLE-4A1B01CA00	4/0	0.512	0.922 (23.42)	0.080 (2.03)	1.201 (30.5)	1,236 (1,839)	330	315
E8HLE-A11B01CA00	250	0.558	0.968 (24.59)	0.080 (2.03)	1.247 (31.7)	1,386 (2,063)	365	345
E8HLE-A31B01CA00	350	0.661	1.071 (27.21)	0.080 (2.03)	1.350 (34.3)	1,764 (2,625)	440	415
E8HLE-A61B01CA00	500	0.789	1.199 (30.45)	0.080 (2.03)	1.518 (38.6)	2,362 (3,514)	535	500

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 E8JLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Conductor Diameter in	Insulation Diameter in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)	Ampacity		
							In Air	Duct	Tray
E8JLE-021B01CA00	2	0.283	0.793 (20.14)	0.060 (1.52)	1.072 (27.2)	729 (1,086)	165	165	-
E8JLE-011B01CA00	1	0.322	0.832 (21.13)	0.060 (1.52)	1.111 (28.2)	812 (1,211)	190	185	-
E8JLE-1A1B01CA00	1/0	0.362	0.872 (22.15)	0.060 (1.52)	1.151 (29.2)	909 (1,355)	215	215	220
E8JLE-2A1B01CA00	2/0	0.405	0.915 (23.24)	0.060 (1.52)	1.194 (30.3)	1,026 (1,529)	255	245	250
E8JLE-3A1B01CA00	3/0	0.456	0.966 (24.54)	0.080 (2.03)	1.245 (31.6)	1,171 (1,745)	290	275	290
E8JLE-4A1B01CA00	4/0	0.512	1.022 (25.96)	0.080 (2.03)	1.301 (33.0)	1,348 (2,011)	330	315	335
E8JLE-A11B01CA00	250	0.558	1.068 (27.13)	0.080 (2.03)	1.347 (34.2)	1,502 (2,238)	365	345	370
E8JLE-A31B01CA00	350	0.661	1.171 (29.74)	0.080 (2.03)	1.450 (36.8)	1,888 (2,814)	440	415	460
E8JLE-A61B01CA00	500	0.789	1.299 (32.99)	0.080 (2.03)	1.578 (40.1)	2,497 (3,721)	535	500	575

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.

25kV 100% I.L., 260-mils, Shielded Series E8KLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Conductor Diameter in	Insulation Diameter in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)	Ampacity	
							In Air	Duct
E8KLE-1A1B01CA00	1/0	0.362	0.952 (24.18)	0.060 (1.52)	1.231 (31.3)	995 (1,481)	215	215
E8KLE-2A1B01CA00	2/0	0.405	0.995 (25.27)	0.060 (1.52)	1.274 (32.4)	1,115 (1,659)	255	245
E8KLE-3A1B01CA00	3/0	0.456	1.046 (26.57)	0.080 (2.03)	1.325 (33.7)	1,263 (1,879)	290	275
E8KLE-4A1B01CA00	4/0	0.512	1.102 (27.99)	0.080 (2.03)	1.381 (35.1)	1,443 (2,147)	330	315
E8KLE-A11B01CA00	250	0.558	1.148 (29.16)	0.080 (2.03)	1.427 (36.2)	1,600 (2,381)	365	345
E8KLE-A31B01CA00	350	0.661	1.251 (31.78)	0.080 (2.03)	1.531 (38.9)	1,994 (2,966)	440	415
E8KLE-A61B01CA00	500	0.789	1.379 (35.03)	0.080 (2.03)	1.658 (42.1)	2,558 (3,807)	535	500

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.

25kV 133% I.L., 320-mils, Shielded Series E8LLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Conductor Diameter in	Insulation Diameter in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)	Ampacity	
							In Air	Duct
E8LLE-1A1B01CA00	1/0	0.362	1.072 (27.23)	0.060 (1.52)	1.351 (34.3)	1,133 (1,686)	215	215
E8LLE-2A1B01CA00	2/0	0.405	1.115 (28.32)	0.060 (1.52)	1.394 (35.4)	1,257 (1,871)	255	245
E8LLE-3A1B01CA00	3/0	0.456	1.166 (29.62)	0.080 (2.03)	1.445 (36.7)	1,410 (2,099)	290	275
E8LLE-4A1B01CA00	4/0	0.512	1.222 (31.04)	0.080 (2.03)	1.501 (38.1)	1,596 (2,375)	330	315
E8LLE-A11B01CA00	250	0.558	1.268 (32.21)	0.080 (2.03)	1.547 (39.3)	1,758 (2,616)	365	345
E8LLE-A31B01CA00	350	0.661	1.371 (34.82)	0.080 (2.03)	1.651 (41.9)	2,161 (3,216)	440	415
E8LLE-A61B01CA00	500	0.789	1.499 (38.07)	0.080 (2.03)	1.842 (46.8)	2,852 (4,244)	535	500

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.

35kV 100% I.L., 345-mils, Shielded Series E8MLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Conductor Diameter in	Insulation Diameter in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)	Ampacity	
							In Air	Duct
E8MLE-1A1B01CA00	1/0	0.362	1.112 (28.24)	0.060 (1.52)	1.381 (35.1)	1,170 (1,740)	215	215
E8MLE-2A1B01CA00	2/0	0.405	1.155 (29.34)	0.060 (1.52)	1.434 (36.4)	1,307 (1,945)	255	245
E8MLE-3A1B01CA00	3/0	0.456	1.206 (30.63)	0.080 (2.03)	1.485 (37.7)	1,462 (2,176)	290	275
E8MLE-4A1B01CA00	4/0	0.512	1.262 (32.05)	0.080 (2.03)	1.531 (38.9)	1,636 (2,434)	330	315
E8MLE-A11B01CA00	250	0.558	1.308 (33.22)	0.080 (2.03)	1.587 (40.3)	1,813 (2,698)	365	345
E8MLE-A31B01CA00	350	0.661	1.411 (35.84)	0.080 (2.03)	1.754 (44.5)	2,327 (3,463)	440	415
E8MLE-A61B01CA00	500	0.789	1.539 (39.09)	0.080 (2.03)	1.872 (47.5)	2,901 (4,316)	535	500

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.

35kV 133% I.L., 420-mils, Shielded Series E8NLE

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Conductor Size AWG/kcmil	Conductor Diameter in	Insulation Diameter in (mm)	Jacket Thickness in (mm)	Overall Diameter in (mm)	Net Weight lbs/kft (kg/km)	Ampacity	
							In Air	Duct
E8NLE-1A1B01CA00	1/0	0.362	1.262 (32.05)	0.060 (1.52)	1.541 (39.1)	1,376 (2,048)	215	215
E8NLE-2A1B01CA00	2/0	0.405	1.305 (33.15)	0.060 (1.52)	1.584 (40.2)	1,507 (2,242)	255	245
E8NLE-3A1B01CA00	3/0	0.456	1.356 (34.44)	0.080 (2.03)	1.635 (41.5)	1,668 (2,482)	290	275
E8NLE-4A1B01CA00	4/0	0.512	1.412 (35.86)	0.080 (2.03)	1.755 (44.6)	1,970 (2,932)	330	315
E8NLE-A11B01CA00	250	0.558	1.458 (37.03)	0.080 (2.03)	1.801 (45.7)	2,142 (3,187)	365	345
E8NLE-A31B01CA00	350	0.661	1.561 (39.65)	0.080 (2.03)	1.904 (48.4)	2,568 (3,821)	440	415
E8NLE-A61B01CA00	500	0.789	1.689 (42.91)	0.080 (2.03)	2.032 (51.6)	3,173 (4,722)	535	500

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.