

MEDIUM VOLTAGE POWER CABLE

TYPE MV-105, AEIC CS8 - SHIELDED EPR POWER CABLE, 133% INSULATION LEVEL, 15000 VOLT, SUNLIGHT RESISTANT

Construction

Conductor:

- Compressed class B stranded annealed uncoated copper.

Conductor Shield:

- Extruded semi-conducting co-polymer compound.

Insulation:

- 105°C rated Ethylene Propylene Rubber (EPR) per ICEA S-93-639 section 4 and UL-1072.

Insulation Shield:

- Extruded semi-conducting co-polymer compound applied directly over the insulation. The conductor shield, insulation and insulation shield are applied in one tandem operation.

Shield:

- Uncoated helically applied 5 mil bare copper tape with a nominal overlap of 25%.

Jacket:

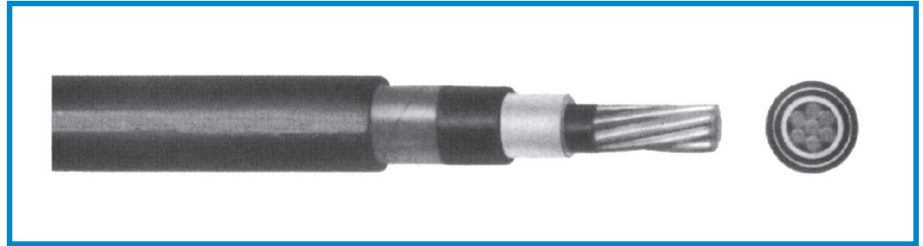
- Extruded PVC jacket with excellent mechanical properties.
- Jacket is UL recognized as being "sunlight resistant."

Tests:

- The finished cable shall be tested in accordance with and meet the requirements of ICEA S-93-639, UL-1072, and AEIC CS-6.

Industry Approvals:

- Conforms to ICEA S-93-639, NEMA WC74 for 5-46 kV Shielded Power Cable.
- Conforms to ICEA Pub. No. S-97-682 for Utility Shielded Power Cables Rated 5 through 46 kV.
- Conforms to AEIC CS8 for Extended Dielectric, Shielded Power Cables Rated 5 Through 46 kV.
- Listed by UL as Type MV-105, per Standard 1072. 105°C Wet or Dry locations.
- Listed by UL as Sunlight Resistant.
- Listed by UL for CT use. (1/0) and larger)



CUSTOM CATALOG NUMBER	CONDUCTOR		NOMINAL THICKNESS (INCHES)		APPROX. O.D.	AMPS			APPROX. NET WEIGHT
	AWG/MCM	STRAND	INSULATION	JACKET	INCHES	DIRECT BURIAL ¹	DUCT ²	AIR ³	LBS/MFT
15000 VOLTS, SHIELDED, 133% INSULATION LEVEL (UNGROUND NEUTRAL)									
25130	2	7	0.220	0.080	1.050	225	165	165	654
25131	1	19	0.220	0.080	1.085	260	185	190	731
25132	1/0	19	0.220	0.080	1.125	295	215	215	825
25133	2/0	19	0.220	0.080	1.170	335	245	255	941
25134	3/0	19	0.220	0.080	1.225	380	275	290	1122
25135	4/0	19	0.220	0.080	1.280	435	315	330	1320
25136	250	37	0.220	0.080	1.355	475	345	365	1480
25137	350	37	0.220	0.080	1.455	575	415	440	1868
25138	500	37	0.220	0.080	1.585	700	500	535	2427
25139	750	61	0.220	0.110	1.825	865	610	655	3445
25140	1000	61	0.220	0.110	2.060	1005	690	755	4408

- 1 Ampacities are based on three single conductor cables directly buried in earth, conductor temperature of 105°C and ambient earth temperature of 20°C per Table 310.81 of the 2002 NEC.
- 2 Ampacities are based on three single conductor cables in underground electrical duct, conductor temperature of 105°C and ambient earth temperature of 20°C per Table 310.77 of the 2002 NEC.
- 3 Ampacities are based on three single conductor cables in isolated conduit in air, conductor temperature of 105°C and ambient air temperature of 40°C per Table 310.73 of the 2002 NEC.

Applications

UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in wet or dry locations at maximum operating temperature of 105°C for normal operation; 140°C for emergency overload conditions; and 250°C for short circuit conditions. Cables may be installed in conduit, duct or aerially when properly supported by a messenger. Cables are also suitable for direct burial if installed in a system with a grounding conductor that is in close proximity and conforms with Article 250.4(A)(5) and 250.4(B)(4) of the 2002 NEC.

NOTE:

Sizes 1/0 AWG and larger are marked "Type MV-105 for CT USE" suitable for installation in cable tray per Article 392.12 of the 2002 NEC. Sizes 1/0 and larger also pass the IEEE 1202/ FT4 flame test.



Custom Cable Corp.