

# MEDIUM VOLTAGE POWER CABLE

TYPE MV105 - SHIELDED EPR POWER CABLE, 100% INSULATION LEVEL, 15000 VOLT

## 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:

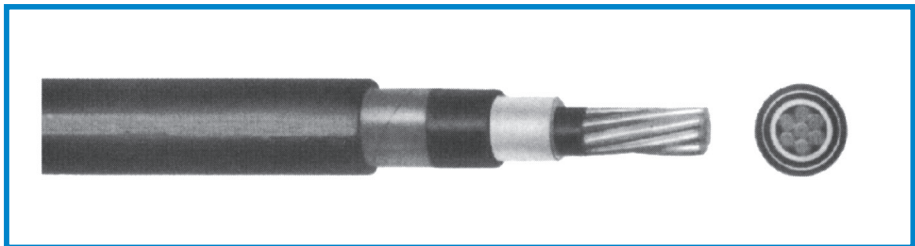
- Extruded PVC jacket with excellent mechanical properties.
- Jacket is UL recognized as being "sunlight resistant."

### 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 AEIC CS6 for Ethylene Propylene Rubber Insulated Shielded Power Cables.
- Conforms to ICEA Pub. No. S-68-516 and NEMA Pub. No. WC8 for Ethylene-propylene-rubber-insulated Wire and Cable.
- Listed by UL as Type MV-105, per Standard 1072. 105°C Wet or Dry locations.
- Listed by UL as Sunlight Resistant.
- Sizes 1/0 and larger UL listed For CT Use.
- Conforms to Federal Specification J-C-30B.



CUSTOM CATALOG NUMBER	CONDUCTOR		NOMINAL THICKNESS (INCHES)		APPROX. O.D. INCHES	AMPS			APPROX. NET WEIGHT LBS/MFT
	AWG/MCM	STRAND	INSULATION	JACKET		DIRECT BURIAL <sup>1</sup>	DUCT <sup>2</sup>	AIR <sup>3</sup>	
<b>8001-15000 VOLTS, SHIELDED, 100% INSULATION LEVEL (GROUNDED NEUTRAL)</b>									
25101	2	7	0.175	0.080	.950	225	165	165	578
25102	1	19	0.175	0.080	.985	260	185	190	651
25103	1/0	19	0.175	0.080	1.025	295	215	215	743
25104	2/0	19	0.175	0.080	1.070	335	245	255	856
25105	3/0	19	0.175	0.080	1.120	380	275	290	994
25106	4/0	19	0.175	0.080	1.175	435	315	330	1168
25107	250	37	0.175	0.080	1.235	475	345	365	1357
25108	350	37	0.175	0.080	1.350	575	415	440	1759
25109	500	37	0.175	0.080	1.480	700	500	535	2308
25110	750	61	0.175	0.080	1.670	865	610	655	3215
25111	1000	61	0.175	0.110	1.890	1005	690	755	4256

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.



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