

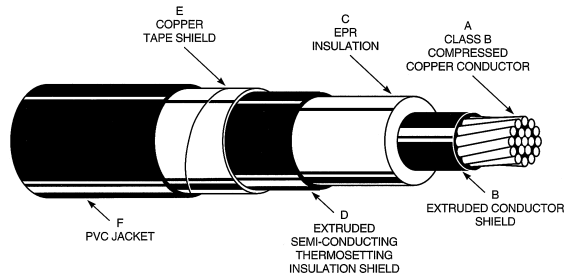
MV-105 POWER CABLE

1/C 5kV-8kV 133% EPR

EPR Insulation with PVC Jacket - Shielded
6 AWG - 750 KCMIL • Single Conductor • 105°C Wet or Dry Locations

DESCRIPTION:

- Copper conductor
- Thermosetting insulation shield
- Tape shield
- PVC Jacket
- Thermosetting conductor shield
- EPR insulation



PWC Catalog #	Size AWG or kcmil	No. of Strds.	Nom. Cond. Diameter	115 Mil. Nom. Insul. Diameter	Nom. Insul. Shld. Diameter	Min. Avg. Jacket Thick.	Approx. O.D.	Approx. Net Weight	Amps		
			(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Lbs./M Ft.)	Single Cond. in Air ¹	Duct ²
03-0272	6	7	0.169	0.435	0.500	0.060	0.645	329	125	97	93
03-0273	4	7	0.213	0.475	0.540	0.060	0.685	405	165	125	120
03-0274	2	7	0.268	0.535	0.600	0.060	0.740	488	215	165	165
03-0275	1	19	0.299	0.565	0.630	0.060	0.775	527	250	185	190
03-0276	1/0	19	0.336	0.600	0.665	0.060	0.810	567	290	215	215
03-0277	2/0	19	0.376	0.640	0.705	0.080	0.890	666	335	245	255
03-0278	3/0	19	0.423	0.685	0.750	0.080	0.940	836	385	275	290
03-0279	4/0	19	0.475	0.740	0.805	0.080	0.990	1066	445	315	330
03-0280	250	37	0.520	0.795	0.860	0.080	1.045	1278	495	345	365
03-0281	350	37	0.616	0.890	0.955	0.080	1.145	1638	610	415	440
03-0282	500	37	0.736	1.010	1.095	0.080	1.285	2009	765	500	535
03-0283	750	61	0.908	1.195	1.280	0.080	1.465	3073	990	610	655

¹ Ampacities are based on a single, loaded cable in still air, conductor temperature of 105°C and air ambient temperature of 40°C per Table 310.69 of the 2008 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 2008 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 2008 NEC.
 * Consult factory for availability on 750 KCMIL.

5kV - 8kV Type MV-105 CABLE CONSTRUCTION

Conductor	Compact class B stranded annealed uncoated copper per ASTM B-496.
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.
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 and CS-8.
Optional Constructions	Conductor: (tin coated, compressed strand) Consult factory for cable specifications with alternate constructions or materials.

SCOPE:
This specification covers shielded, single conductor cables having compact stranded, bare copper conductors; extruded semi-conducting strand shield; ethylene propylene rubber (EPR) insulation; extruded semi-conducting insulation shield with bare copper tape shield; and polyvinyl chloride (PVC) jacket. Cables are rated 5,000 volts, 105°C wet or dry locations, and meet the requirements of ICEA S-93-639 (NEMA WC 74), AEIC CS-6 and CS-8 Articles 328 and 310 of the National Electrical Code, and UL-1072.

»The data listed above is approximate and subject to change without notice.

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 2008 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 2008 NEC. Sizes 1/0 and larger also pass the IEEE 1202/FT4 flame test.



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