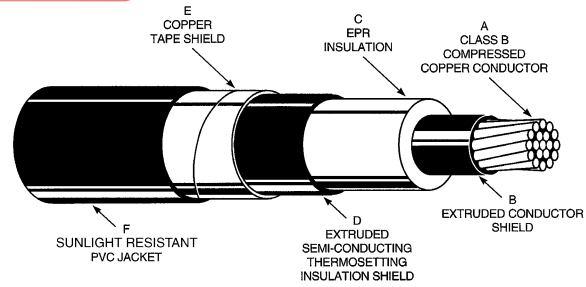


DESCRIPTION:

- Copper conductor
 - Shielded
 - 1 AWG - 1000 MCM
 - EPR insulation with PVC jacket
- Single conductor
- 105°C wet or dry locations
- 100% insulation level
- Insulation thickness 260 mils



PWC Catalog#	Size	Conductor Diameter	0.260 Insulation Diameter	Extruded Insulation Shield Diameter	Jacket Thickness	Approx. O.D.	Approx. Net Weight	Allowable Ampacities +	
	AWG or MCM							inch	inch
03-0307	1	0.325	0.900	1.010	.080	1.200	807	185	190
03-0308	1/0	0.365	0.940	1.050	.080	1.240	941	215	215
03-0309	2/0	0.409	0.985	1.095	.080	1.285	1061	245	255
03-0310	3/0	0.460	1.035	1.170	.080	1.360	1252	275	290
03-0311	4/0	0.516	1.095	1.230	.080	1.420	1412	315	330
03-0312	250	0.562	1.150	1.285	.080	1.475	1576	345	365
03-0313	350	0.666	1.255	1.390	.080	1.580	1971	415	440
03-0314	500	0.795	1.385	1.520	.110	1.770	2539	500	535
03-0315	750	0.975	1.580	1.755	.110	2.005	3640	610	655
03-0316	1000	1.126	1.735	1.910	.110	2.160	4548	690	755

+ 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 1999 NEC. Duct ampacities are based on Table 310-77 three conductors in one underground duct, 105°C conductor, 20°C earth ambient temperature.

25kV Type MV-105 CABLE CONSTRUCTION

Conductor	The conductor shall be compressed Class B stranded annealed uncoated copper.
Conductor Shield	The conductor shall be shielded with an extruded semi-conducting co-polymer compound.
Insulation	The insulation shall be 105°C rated EPR (ethylene propylene rubber) per ICEA S-68-516 part 3 and UL-1072.
Insulation Shield	The insulation shield shall be 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	The shield shall be uncoated helically applied 5 mil bare copper tape with a minimum overlap of 12.5%.
Jacket	The cable shall be covered with a jacket of extruded PVC with excellent mechanical properties. Jacket is UL recognized as being "sunlight resistant".
Optional Constructions	Consult factory for cable specifications with alternate constructions or materials.

APPLICATIONS:

- Conduit
- Duct
- Aerially when supported by a messenger
- Direct burial*

These cables are UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in wet or dry locations at a maximum operating temperature of 105°C for normal operation; 140°C for emergency overload conditions; and 250°C for short circuit conditions.

*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 250-2d of the 1999 NEC.

NOTE: Sizes 1/0 AWG and larger are marked "Type MV-105 for CT USE" suitable for installation in cable tray per Article 318-12 of the 1999 NEC.

SCOPE:

This specification covers shielded, single conductor cables having stranded, bare copper conductors; extruded semi-conducting strand shield; EPR (ethylene propylene rubber) insulation; extruded semi-conducting insulation shield with bare copper tape shield; and polyvinyl chloride (PVC) jacket. Cables are rated 25,000 volts, 105°C wet or dry locations, and meet the requirements of ICEA S-68-516 (NEMA WC-8), AEIC CS-6, Articles 326 and 310 of the National Electrical Code, and UL-1072.

SPECIFICATIONS:

The finished cable shall be tested in accordance with and meet the requirements of ICEA S-68-516, UL-1072, and AEIC CS6.