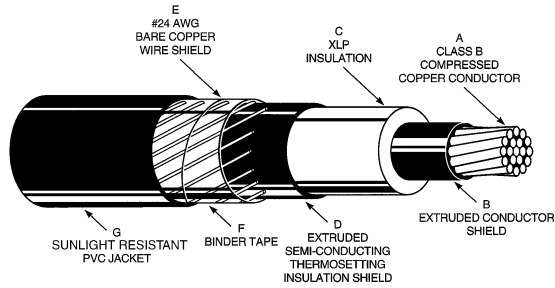


MV-90 POWER CABLE

1/C 25kV 100% XLP

DESCRIPTION:

- Copper conductor
- Shielded
- 1 AWG-1000 MCM
- XLP insulation with PVC jacket
- Single conductor
- 90°C wet or dry locations
- 100% insulation level
- Insulation thickness 260 mils



PWC Catalog#	Size	Nominal 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
03-0481	1	.325	.900	1.010	.080	1.240	746	175	170
03-0482	1/0	.365	.940	1.050	.080	1.280	877	200	195
03-0483	2/0	.409	.985	1.095	.080	1.325	993	230	225
03-0484	3/0	.460	1.035	1.170	.080	1.400	1178	260	260
03-0485	4/0	.516	1.095	1.230	.080	1.460	1332	295	295
03-0486	250	.562	1.150	1.285	.080	1.515	1492	325	330
03-0487	350	.666	1.255	1.390	.080	1.620	1876	390	395
03-0488	500	.795	1.385	1.520	.110	1.810	2431	465	480
03-0489	750	.975	1.580	1.755	.110	2.045	3514	565	585
03-0490	1000	1.126	1.735	1.910	.110	2.200	4407	640	675

+Ampacities are based on three single conductor cables in isolated conduit in air, conductor temperature of 90°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, 90°C conductor, 20°C earth ambient temperature.

25kV Type MV-90 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 90°C rated XLPE (cross-linked polyethylene) per ICEA S-66-524 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 copper wires.
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 90°C for normal operation; 130°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.

SCOPE:

This specification covers shielded, single conductor cables having stranded, bare copper conductors; extruded semi-conducting strand shield; XLP (cross-linked polyethylene) insulation; extruded semi-conducting insulation shield with bare copper wire shield; and polyvinyl chloride (PVC) jacket. Cables are rated 25,000 volts, 90°C wet or dry locations, and meet the requirements of ICEA S-68-524 (NEMA WC-7), AEIC CS-5, 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-66-524, UL-1072, and AEIC CS-5.