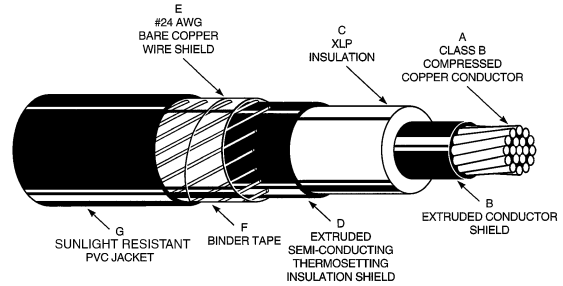


DESCRIPTION:

- Copper conductor
- Shielded
- 1 AWG-1000 MCM
- XLP insulation with PVC jacket
- Single conductor
- 90°C wet or dry locations
- 133% insulation level
- Insulation thickness 320 mils



PWC Catalog#	Size	Nominal Conductor Diameter	0.320 Insulation Diameter	Extruded Insulation Shield Diameter	Jacket Thickness	Approximate O.D.	Approx. Net Weight	Allowable Ampacities+	
	AWG or MCM							inch	inch
03-0491	1	.325	1.020	1.155	.080	1.385	911	175	170
03-0492	1/0	.365	1.060	1.195	.080	1.425	1008	200	195
03-0493	2/0	.409	1.105	1.240	.080	1.470	1129	230	225
03-0494	3/0	.460	1.160	1.295	.080	1.525	1277	260	260
03-0495	4/0	.516	1.215	1.350	.080	1.580	1456	295	295
03-0496	250	.562	1.270	1.405	.080	1.635	1619	325	330
03-0497	350	.666	1.375	1.510	.110	1.800	2011	390	395
03-0498	500	.795	1.505	1.680	.110	1.970	2674	465	480
03-0499	750	.975	1.705	1.880	.110	2.170	3684	565	585
03-0500	1000	1.126	1.855	2.030	.110	2.320	4589	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.

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.