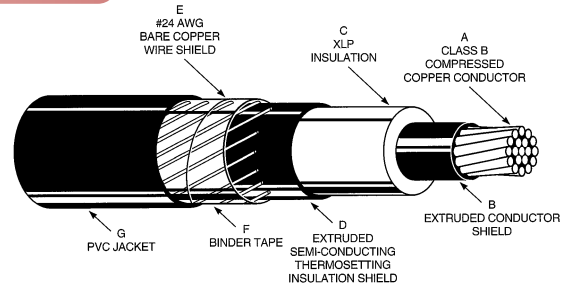


DESCRIPTION:

- Copper conductor
- Thermosetting conductor shield
- XLP insulation
- Thermosetting insulation shield
- Copper wire shield
- PVC Jacket



PWC Catalog#	Size AWG or kcmil	Conductor Diameter inch	0.220" Insulation Diameter inch	Extruded Insulation Shield Diameter inch	Jacket Thickness inch	Approx. O.D. inch	Approx. Net Weight lbs./Mft.	Allowable Ampacities+	
								Duct	Conduit in Air
03-0459	2	0.285	0.790	0.870	0.080	1.090	595	155	150
03-0460	1	0.325	0.825	0.905	0.080	1.120	667	175	170
03-0461	1/0	0.365	0.865	0.945	0.080	1.160	757	200	195
03-0462	2/0	0.409	0.910	0.990	0.080	1.205	868	230	225
03-0463	3/0	0.460	0.960	1.040	0.080	1.255	1006	260	260
03-0464	4/0	0.516	1.015	1.110	0.080	1.325	1179	295	295
03-0465	250	0.562	1.075	1.175	0.080	1.390	1343	325	330
03-0466	350	0.666	1.180	1.280	0.080	1.495	1717	390	395
03-0467	500	0.795	1.310	1.410	0.080	1.625	2254	465	480
03-0468	750	0.975	1.500	1.610	0.080	1.885	3241	565	585
03-0469	1000	1.126	1.655	1.710	0.110	2.045	4143	640	675

+Ampacities are based on the NEC 1999 Edition. Duct ampacities are based on Table 310-77 three conductors in one underground duct, 90°C conductor, 20°C earth ambient temperature. Conduit in air ampacities are based on Table 310-73 three cables in isolated conduit in air, 90°C conductor, 40°C ambient temperature.

15kV Type MV-90 CABLE CONSTRUCTION	
Conductor	The conductor shall be Class B compressed concentric stranded bare copper in accordance with ASTM Specs B3 and B8 and ICEA Part 2, Section 2.1 and 2.5.
Conductor Shield	The conductor shall be shielded with an extruded semi-conducting thermosetting polymeric layer which shall be firmly bonded to the insulation. The thickness shall be in accordance with the referenced standards.
Insulation	The insulation shall be XLP meeting the requirements of the referenced standards. The average thickness shall be 0.220" and the minimum spot thickness shall be not less than 90% of the average thickness.
Insulation Shield	The insulation shall be shielded with an extruded layer of semi-conducting thermosetting polymeric layer which shall be identified as semi-conducting. The thickness shall be in accordance with the referenced standards. Over this layer shall be applied a concentric serve of 24 AWG annealed solid bare copper wires over which shall be applied a lapped non-metallic tape.
Jacket	The cable shall be covered with a black sunlight resistant PVC jacket conforming to the requirements specified for polyvinyl chloride jackets in ICEA. The average thickness shall be in accordance with Table 4-3 of ICEA, and the minimum spot thickness shall be not less than 80% of the average thickness.
Identification	Cable shall be identified by surface printing on the jacket.

APPLICATIONS:

- As permitted by the NEC:
- Aerial installations
 - Conduit
 - Direct burial
 - Underground duct installations

These cables are capable of operating continuously at a conductor temperature not in excess of 90°C for normal operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 15,000V, 133% insulation level (ungrounded system).

SCOPE:

This specification covers single conductor XLP (Cross-linked thermosetting polyethylene) insulated, shielded, thermoplastic jacketed power cable for use in aerial, direct burial, conduit, and underground duct installations. This cable is capable of operating continuously at a conductor temperature not in excess of 90°C for normal operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 15,000 volts, 133% insulation level.

SPECIFICATIONS:

Manufactured and tested in accordance with the latest revisions of ICEA Pub. No. S-66-524, NEMA Pub. No. WC7, AEIC No. 5, and UL 1072.