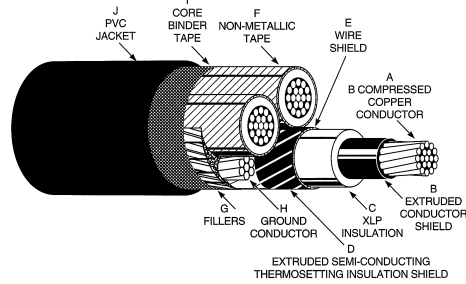


MV-90 POWER CABLE

3/C 15kV 133% XLP

DESCRIPTION:

- 3 copper conductors
- Thermosetting conductor shield
- Cross-linked polyethylene (XLP) insulation
- Thermosetting insulation shield
- Drain wire or tape shield
- Copper ground wire
- PVC Jacket



PWC Catalog #	Size	Conductor Diameter inch	Grd. Cond. Size AWG	Extruded Insulation Shield Diameter inch	Jacket Thickness inch	Approx. O.D. inch	Approx. Net Weight lbs./Mft.	Allowable Ampacities+	
	AWG or kcmil							Duct	Conduit in Air
03-0545	2	0.283	6	0.828	0.110	2.118	2012	150	145
03-0546	1	0.322	4	0.868	0.110	2.204	2279	170	165
03-0547	1/0	0.362	4	0.908	0.110	2.290	2579	195	195
03-0548	2/0	0.405	4	0.990	0.110	2.377	2924	220	220
03-0549	3/0	0.456	3	0.998	0.110	2.485	3393	250	250
03-0550	4/0	0.512	3	1.053	0.110	2.604	3919	285	290
03-0551	250	0.558	3	1.108	0.140	2.787	4582	310	315
03-0552	350	0.661	2	1.213	0.140	3.014	5817	375	385
03-0553	500	0.790	1	1.338	0.140	3.284	7600	450	470

+ Ampacities are based on the NEC 1999 Edition. Duct ampacities are based on Table 310-79 three conductors within an overall covering in one underground duct, 90°C conductor, 20°C earth ambient temperature. Conduit in air ampacities are based on Table 310-75 three cables within an overall covering 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 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 (cross-linked polyethylene) 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 semi-conducting thermosetting polymeric layer, which shall be identified as semi-conducting. 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.
Grounding Conductor	The ground conductor shall be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8.
Assembly	The insulated and shielded power conductors shall be cabled round with fillers and with a grounding conductor in one outer interstice and covered with a binder tape.
Jacket	The cable shall be covered with a black PVC jacket conforming to the requirements specified for polyvinyl chloride in ICEA. The average thickness shall be in accordance with the referenced standards and the minimum spot thickness shall be not less than 80% of the average thickness. The jacket will be sunlight resistant and will meet the requirements of the IEEE 1202.

APPLICATIONS:

- Aerial installations
- Direct buried
- Metal racks
- Open trays
- Troughs or raceway

These cables are capable of operating continuously at maximum conductor temperature 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 (grounded system).

SCOPE:

This specification covers three conductor XLP (cross-linked thermosetting polyethylene) insulated, shielded, thermoplastic jacketed power cables with grounding conductor for use in aerial installations, metal racks, open trays, troughs, or continuous rigid cable supports. These cables are capable of operating continuously at a temperature of 90°C for normal operations, 130°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 15,000V, 133% insulation level (ungrounded system).

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.



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