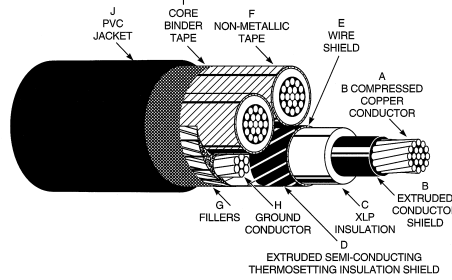


MV-90 POWER CABLE

3/C 5kV - 8kV XLP 115 MILS

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	Grd. Cond. Size AWG	Extruded Insulation Shield Diameter	Jacket Thickness	Approx. O.D.	Approx. Net Weight	Allowable Ampacities+	
	AWG or kcmil							inch	inch
03-0523	6	0.180	6	0.580	0.080	1.360	975	88	93
03-0524	4	0.230	6	0.630	0.080	1.450	1195	115	120
03-0525	2	0.283	6	0.623	0.110	1.612	1384	150	145
03-0526	1	0.322	4	0.663	0.110	1.761	1759	170	165
03-0527	1/0	0.362	4	0.703	0.110	1.848	2011	195	195
03-0528	2/0	0.405	4	0.743	0.110	1.934	2341	220	220
03-0529	3/0	0.456	3	0.793	0.110	2.042	2787	250	250
03-0530	4/0	0.512	3	0.848	0.110	2.161	3289	285	290
03-0531	250	0.558	3	0.905	0.110	2.292	3762	310	315
03-0532	350	0.661	2	1.008	0.110	2.518	4943	375	385
03-0533	500	0.790	1	1.133	0.140	2.841	6819	450	470
03-0534	750	0.968	1/0	1.320	0.140	3.246	9609	545	570

+ 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.

5kV or 8kV 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 0.115" 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 (70,000 Btu/hr) vertical cable tray flame test.
Identification	Cable shall be identified by surface printing on the jacket.

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 are rated at 5,000V, 133% (ungrounded system) and 8,000V, 100% insulation levels (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 5,000V, 133% (grounded system) and 8,000V, 100% insulation levels (grounded 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.



PITTSBURGH WIRE & CABLE INC.

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