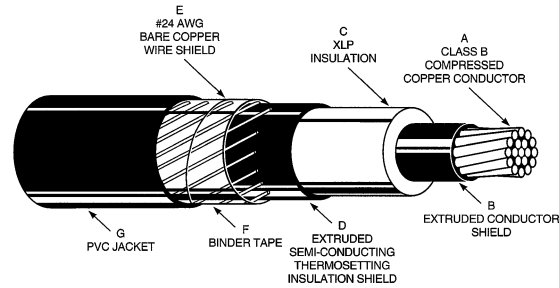


**DESCRIPTION:**

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



PWC Catalog#	Size	Conductor Diameter	0.115" Insulation Diameter	Extruded Insulation Shield Diameter	Jacket Thickness	Approx. O.D.	Approx. Net Weight	Allowable Ampacities+	
	AWG or kcmil							inch	inch
03-0424	6	0.180	0.475	0.580	0.060	0.715	266	90	83
03-0425	4	0.227	0.525	0.630	0.060	0.765	335	115	110
03-0426	2	0.285	0.585	0.690	0.080	0.865	417	155	150
03-0427	1	0.325	0.625	0.730	0.080	0.905	482	175	170
03-0428	1/0	0.365	0.665	0.770	0.080	0.945	566	200	195
03-0429	2/0	0.409	0.710	0.815	0.080	0.990	703	230	225
03-0430	3/0	0.460	0.760	0.865	0.080	1.040	832	260	260
03-0431	4/0	0.516	0.815	0.920	0.080	1.095	992	295	295
03-0432	250	0.562	0.870	0.975	0.080	1.150	1132	325	330
03-0433	350	0.666	0.975	1.080	0.080	1.255	1487	390	395
03-0434	500	0.795	1.105	1.235	0.080	1.410	2024	465	480
03-0435	750	0.975	1.305	1.435	0.080	1.610	2881	565	585
03-0436	1000	1.125	1.455	1.585	0.110	1.800	3817	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.

## 5kV - 8kV Type MV-90 CABLE CONSTRUCTION

<b>Conductor</b>	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.
<b>Conductor Shield</b>	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.
<b>Insulation</b>	The insulation shall be XLP 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.
<b>Insulation Shield</b>	The insulation shall be shielded with an extruded 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.
<b>Jacket</b>	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.
<b>Identification</b>	Cable shall be identified by surface printing on the jacket.

**APPLICATIONS:**

- Aerial installations
- Direct burial
- Conduit
- 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 5,000V, 133% (ungrounded system) and 8,000V, 100% insulation level (grounded system).

**SCOPE:**

This specification covers single conductor XLP (Cross-linked thermosetting polyethylene) insulated, shielded, thermoplastic jacketed power cables for use in aerial, direct burial, conduit, and underground duct installations. These cables are capable of operating continuously at a temperature of not in excess of 90°C for normal operations, 130°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 5,000 volts, 133% and 8,000 volts, 100% 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.



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