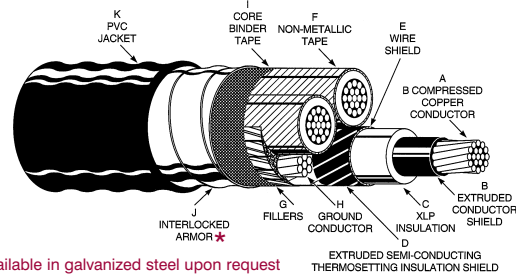


Interlocked Type MV-90

ARMORED POWER CABLE

DESCRIPTION:

- 3 copper conductors
- Thermosetting conductor shield
- Cross-linked polyethylene insulation shield
- Drain wire or tape shield
- Copper ground wire
- Aluminum armor
- PVC Jacket



*Available in galvanized steel upon request

PWC Catalog#	Size AWG or kcmil	Conductor Diameter inch	0.220" Insulation Diameter inch	Grd. Cond. Size AWG or kcmil	Extruded Insulation Shield Diameter inch	Armored Diameter inch	Jacket Thickness inch	Approx. O.D. inch	Approx. Net Weight lb./Mft.	Allowable Ampacity+	
										Direct Burial	In Air
07-0229	2	0.283	0.785	6	0.865	2.260	0.060	2.405	2506	185	165
07-0230	1	0.322	0.825	4	0.905	2.346	0.075	2.521	2775	210	185
07-0231	1/0	0.362	0.865	4	0.945	2.432	0.075	2.607	3177	240	215
07-0232	2/0	0.406	0.910	4	0.990	2.529	0.075	2.704	3554	270	245
07-0233	3/0	0.456	0.960	3	1.040	2.637	0.075	2.812	4014	305	285
07-0234	4/0	0.512	1.015	3	1.095	2.756	0.075	2.931	4617	350	325
07-0235	250	0.558	1.075	3	1.175	2.928	0.075	3.103	5177	380	360
07-0236	350	0.661	1.175	2	1.275	3.144	0.085	3.339	6590	460	435
07-0237	500	0.789	1.305	1	1.405	3.424	0.085	3.619	8385	550	535
07-0238	750	0.968	1.500	1/0	1.600	3.844	0.085	4.038	11423	665	670

+ Ampacities are based on the NEC 1999 Edition. Direct burial ampacities are based on Table 310-83 three conductors within an overall covering directly buried, 90°C conductor, 20°C earth ambient temperature. In air ampacities are based on Table 310-71 three conductors within an overall covering in free 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.
Armor	A single strip of interlocked armor of aluminum shall be applied over the assembly.
Jacket	The cable shall be covered with a red 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) and ICEA T-29-520 (210,000 Btu/hr) vertical cable tray flame tests. Optional non-halogen jacket is available.
Identification	Manufacturer's identification shall be printed on the jacket
Available Alternatives	This cable is available with a bare copper tape in place of a wire shield.

APPLICATIONS:

- Aerial installations
- Direct burial
- Metal racks
- Open trays
- Troughs or continuous rigid cable supports

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 (ungrounded system).

SCOPE:

This specification covers three conductor XLP (cross-linked thermosetting polyethylene) insulated, shielded, interlock armored, 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. Passes IEEE 1202 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) vertical cable tray flame tests.