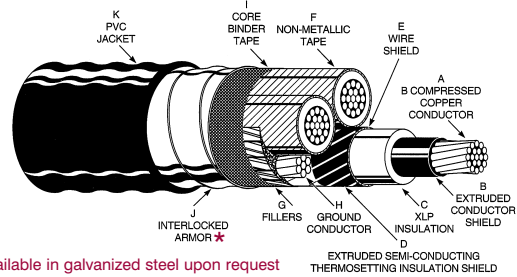


Interlocked Type MV-90

ARMORED POWER CABLE

DESCRIPTION:

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



*Available in galvanized steel upon request

PWC Catalog#	Size	Conductor Diameter	0.115" Insulation Diameter	Grd. Cond. Size AWG or kcmil	Extruded Insulation Shield Diameter	Armored Diameter	Jacket Thickness	Approx. O.D.	Approx. Net Weight	Allowable Ampacity+	
	AWG or kcmil									inch	inch
07-0191	1/0	0.362	0.652	4	0.752	1.872	0.060	2.109	2294	240	215
07-0192	2/0	0.406	0.696	4	0.796	1.969	0.060	2.196	2657	270	245
07-0193	3/0	0.456	0.746	3	0.846	2.077	0.060	2.312	3076	305	285
07-0194	4/0	0.512	0.802	3	0.902	2.196	0.075	2.463	3696	350	325
07-0195	250	0.558	0.858	3	0.958	2.324	0.075	2.584	4225	380	360
07-0196	350	0.661	0.961	2	1.061	2.540	0.075	2.807	5502	460	435
07-0197	500	0.789	1.089	1	1.209	2.864	0.075	3.126	7307	550	535
07-0198	750	0.968	1.278	1/0	1.398	3.283	0.085	3.555	10343	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.

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.
Armor	A single strip of interlocked armor of aluminum shall be applied over the assembly.
Jacket	The cable shall be covered with a yellow 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 5,000V, 133% (ungrounded system) insulation level, and 8,000V, 100% insulation level (grounded 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 5,000V, 133% insulation level, and 8,000V, 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. Passes IEEE 1202 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) vertical cable tray flame tests.