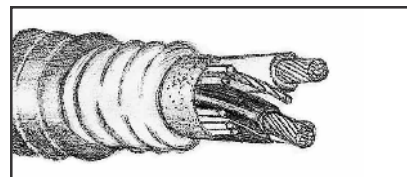


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# INTERLOCKED ARMOR POWER CABLE, 5000 VOLTS 3 Conductor, XLP Insulated, Nonshielded, Aluminum or Steel Armor, Type MV-90 or Type MC, CT Use, 100% & 133% Insulation Levels

**Application:** As armored Type MV-90 cable for installation indoors or outdoors, aerially or in rack, tray, trough, cable trays, or direct buried; for power circuits not exceeding 5000 volts phase to phase at conductor temperatures of 90°C for continuous operation, 130°C for emergency overload conditions and 250°C for short circuit conditions, in manufacturing and processing plants, substations and generating stations. May be used in NEC Class I and II, Div. 2 and Class III, Div. 1 and 2 hazardous locations. **Specifications:** • **Conductor:** 3 conductors of stranded annealed uncoated copper Class B per Part 2 of ICEA. • **Conductor Shield:** Semiconducting tape covering the conductor firmly bonded to the cable insulation, meeting requirements of Part 2 of ICEA. • **Insulation:** Cross-linked polyethylene (XLP), the average thickness being 110 mils in sizes 8 - 4/0 AWG, 120 mils in sizes 250 - 500 kcmil, and 130 mils in size 750 kcmil. Minimum thickness at any point shall be not less than 90% of the specified thickness, physical and electrical properties of the insulation shall be in accordance with Paragraph 3.7 of ICEA.

• **Phase Identification:** The insulated phase conductors shall be printed with numerals "1", "2", and "3" on the surface of the insulation.

• **Assembly:** 3 phase conductors shall be cabled together with a Class B stranded, uncoated copper grounding conductor and suitable fillers to make round. Length of lay shall not exceed 35 times the phase conductor diameter. The grounding conductor shall comply with the requirements of UL Standard 1072. • **Cable Tape:** A suitable cable tape shall be applied over the assembly to hold the core together and provide bedding for the armor.

• **Armor:** An aluminum or galvanized steel interlocked armor shall be applied over the cable core and armor shall be in accordance with UL Standard 1072 and Part 4 of ICEA. • **Covering:** an extruded covering of PVC shall be applied over the armor meeting the Sunlight Resistant requirements of UL with the average thickness and properties of the PVC covering shall be specified in Part 4 of ICEA and minimum thickness at any point shall be not less than 70% of the required average thickness. • **Identification:** An ink print legend shall be applied to the surface of the PVC covering providing cable and manufacturer identification. • **Tests:** tested in accordance with UL requirements for Type MV-90 cable and ICEA S-66-524, passing ribbon burner cable tray flame test requirements of UL and shall be UL listed "For CT Use" and comply with the IEEE-1202 flame test (2 AWG and larger).

• **Standards:** UL Standard 1072 for Type MV-90, ICEA Pub. No. S-66-524 and NEMA Pub. No. WC7 for Cross-linked thermosetting polyethylene insulated Wire and Cable

Catalog No.	Size AWG or kcmil	No. of Strands	Insulation Thickness (Mils)	Nominal Diameter Over Armor (Inches)	PVC Jacket Thickness Mils	Nominal Diameter Over PVC Jacket (Inches)	Copper Phase Conductors				
							Copper Grounding Conductor AWG	Approx. Net Weight lb/1000ft.		Ampacity *	Ampicity **
								AL Armor	Steel Armor		
P01P7	8	7	110	1.02	50	1.12	8	675	810	52	59
P02P7	6	7	110	1.10	50	1.20	6	780	1000	69	79
P03P7	4	7	110	1.19	50	1.30	6	960	1230	91	105
P04P7	2	7	110	1.32	50	1.43	6	1270	1560	125	140
P05P7	1	19	110	1.41	50	1.51	4	1560	1870	140	160
P06P7	1/0	19	110	1.49	50	1.60	4	1820	2200	165	185
P07P7	2/0	19	110	1.59	60	1.71	4	2115	2485	190	215
P08P7	3/0	19	110	1.77	60	1.90	3	2780	3125	220	250
P09P7	4/0	19	110	1.85	60	1.98	3	3105	3750	255	285
P10P7	250	37	120	2.04	60	2.17	3	3700	4200	280	320
P11P7	350	37	120	2.21	60	2.35	2	4740	5365	350	395
P12P7	500	37	120	2.49	75	2.65	1	6515	7200	425	485
P13P7	750	61	130	2.92	75	3.09	1/0	9315	10225	525	615

\* Ampacity for cables installed in uncovered cable tray without maintained spacing; 90°C conductor temperature, 40°C ambient.

\* Shipping Tolerances +/- 10%

\*\* Ampacity for cables installed in uncovered cable tray without maintained spacing of one cable diameter, 90°C conductor temperature, 40°C ambient. For other installations refer to the NEC

**1-800-945-5542**

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