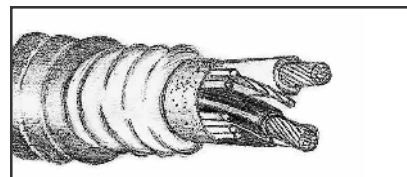


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INTERLOCKED ARMOR POWER CABLE, 5000 VOLTS

3 Conductor, EPR Insulated, Shielded, Aluminum or Steel Armor, Type MV-90 & 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:** Extruded conducting thermosetting compound covering the conductor firmly bonded to the cable insulation, meeting requirements of Par. D. 2 and resistivity requirements of Par. D.4 of AEIC CS6 with average thickness in accordance with Table D-1 of AEIC CS6. • **Insulation:** EPR, the average thickness being 115 mils. 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 3.6 of ICEA. • **Shielding:** Extruded thermosetting insulation shield, thickness being in accordance with Table D-3 of AEIC CS6 and meeting requirements of Par. D.4 of AEIC CS6 with an uncoated copper tape applied helically with minimum lap of 12.5%. • **Phase Identification:** Colored (1/C black, 1/C red, 1/C blue) tape applied longitudinally under the copper shielding tape. • **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 AEIC CS6, UL requirements for Type MV-90 cable and ICEA S-68-516, passing UL and IEEE-383 ribbon burner flame tests and ICEA 210,000 BTU/Hr. ribbon burner test and is UL listed for CT use. • **Standards:** UL Standard 1072 for Type MV-90, ICEA Pub. No. S-68-516 and NEMA Pub. No. WC8 for Ethylene propylene rubber 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 *	Ampacity **
								AL Armor	Steel Armor		
P01P8	4	7	115	1.44	50	1.54	6	1360	1745	91	105
P02P8	2	7	115	1.57	60	1.70	6	1775	2160	125	140
P03P8	1	19	115	1.65	60	1.78	4	2055	2475	140	160
P04P8	1/0	19	115	1.78	60	1.91	4	2335	2745	165	185
P05P8	2/0	19	115	1.88	60	2.01	4	2705	3130	190	215
P06P8	3/0	19	115	1.99	60	2.12	3	2920	3375	220	250
P07P8	4/0	19	115	2.11	60	2.24	3	3730	4290	255	285
P08P8	250	37	115	2.23	60	2.36	3	4200	4770	280	320
P09P8	350	37	115	2.46	75	2.63	2	5590	6220	350	395
P10P8	500	37	115	2.77	75	2.93	1	7490	8210	425	485
P11P8	750	61	115	3.18	85	3.37	1/0	10385	11195	525	615
P12P8	1000	61	115	3.50	85	3.69	1/0	13345	14150	590	705

* 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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