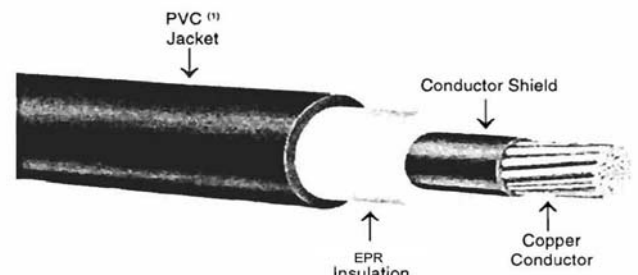


EPR PVC POWER CABLE, 2400 VOLTS

Single Conductor, Nonshielded, PVC Jacketed
MV-90 Wet or Dry

<p>APPLICATION:</p> <ol style="list-style-type: none"> 1. Installed in a broad range of commercial, industrial and utility applications such as water and sewage treatment facilities, railroads, mines and fossil fuel utility generating stations, pulp and paper mills, petrochemical plants and textile and steel mills. 2. For use in wet or dry locations when installed in accordance with the National Electric code. 3. for use in aerial, conduit, open tray and underground duct installations <p>FEATURES:</p> <ol style="list-style-type: none"> 1. Rated at 90°C 2. High impulse strength 3. Excellent moisture resistance 4. Chemical and sunlight resistant 5. Lower cost. <p>STANDARDS:</p> <ol style="list-style-type: none"> 1. Listed by Underwriters Laboratories as 2,400 volt nonshielded cable, Type MV-90, per UL Standard 1072. 2. Conforms to ICEA S-96-659 and NEMA WC71 for Nonshielded Cables Rated 2001-5000 Volts. surface printed. 	 <p style="text-align: center;">CONSTRUCTION: Annealed copper conductor, conductor shield, EPR insulation, discharge and moisture resistant PVC jacket, surface printed.</p>
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USAWC Part #	Size AWG or kcmil	No. of Strands	Thickness in Mils		Nominal Diameter Inches	Approx. Net Wt. lbs/1000 ft	Copper Weight lbs/1000 ft	Ampacity*	
			Insulation	Jacket				Conduit	Duct
2400 VOLTS, NONSHIELDED									
8-012.4NSEP	8	7	125	80	.58	185	51	55	64
6-012.4NSEP	6	7	125	80	.62	225	81	75	85
4-012.4NSEP	4	7	125	80	.67	290	129	97	110
2-012.4NSEP	2	7	125	80	.73	385	205	130	145
1-012.4NSEP	1	19	125	80	.76	455	259	155	170
1/0-012.4NSEP	1/0	19	125	80	.80	535	326	180	195
2/0-012.4NSEP	2/0	19	125	80	.85	635	411	205	220
3/0-012.4NSEP	3/0	19	125	95	.93	790	518	240	250
4/0-012.4NSEP	4/0	19	125	95	.98	940	653	280	290
250-012.4NSEP	250	37	140	110	1.09	1135	772	315	320
350-012.4NSEP	350	37	140	110	1.19	1485	1080	385	385
500-012.4NSEP	500	37	140	110	1.32	2000	1544	475	470
750-012.4NSEP	750	61	155	125	1.56	2940	2316	600	585
1000-012.4NSEP	1000	61	155	125	1.71	3790	3086	690	670

CONDUIT: Three cables in isolated conduit in air, 90 C Conductor Temperature, 40 C Ambient. DUCT: Three cables per duct, 90 C Conductor Temperature, 20 C Ambient, One Circuit, 100% Load Factor, Rho = 90. For other installation conditions, refer to the NEC

Specification

EPR PVC POWER CABLE, 2400 VOLTS

Single Conductor, Nonshielded, Jacketed MV-90 Wet or Dry

1. SCOPE

- 1.1 This specification describes single conductor EPR insulated, PVC jacketed nonshielded power cable for use in circuits not exceeding 2400 volts phase to phase at conductor temperatures of 90°C continuous normal operation, 130°C for emergency overload conditions and 250°C for short circuit conditions. Cables are intended for use as Type MV-90 Dry in applications meeting the requirements of the National Electrical Code.

2. STANDARDS

- 2.1 The following standards shall form a part of this specification to the extent specified herein:
 - 2.1.1 Underwriters Laboratories Standard 1072 for Medium-Voltage Solid-Dielectric Cable.
 - 2.1.2 ICEA Pub. No. S-96-659 and NEMA Pub. No. WC71 for Nonshielded Cables Rated 2001-5000 Volts.

3. CONDUCTORS

- 3.1 Class B stranded annealed uncoated copper per Part 2 of ICEA.

4. CONDUCTOR SHIELDING

- 4.1 The conductor shall be covered with a layer of semiconducting tape completely covering the conductor and firmly bonded to the cable insulation. The conductor shield shall meet the requirements of Part 3 of ICEA.

5. INSULATION

- 5.1 Directly over the conductor shield shall be applied a homogeneous wall of EPR insulation. The average thickness of the insulation shall be as specified in Table 4-3, Type E-2 of ICEA and in Table 310.63 of the National Electrical Code for wet or dry locations. 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 Table 4-5, Type E-2 of ICEA.

6. JACKET

- 6.1 A PVC jacket shall be applied directly over the insulation. The jacket shall meet the requirements of Table 5-1 of ICEA for Polyvinyl Chloride. The average thickness of the jacket shall be as specified in Table 4-3, Type E-2 of ICEA and in Table 310.63 of the National Electrical Code for wet or dry locations. The minimum thickness at any point shall be not less than 80% of the specified thickness.

7. IDENTIFICATION

- 7.1 All cable shall be identified by means of surface ink printing indicating manufacturer, size, insulation type, voltage rating, and UL designations.

8. TESTS

- 8.1 Cable shall be tested in accordance with ICEA S-96-659 and UL Standard 1072.