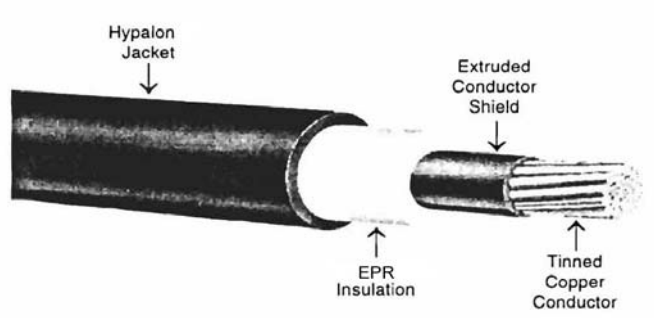


EPR HYPALON POWER CABLE 2400 VOLTS

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

<p>APPLICATION:</p> <ol style="list-style-type: none"> 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. For use in wet or dry locations when installed in accordance with the National Electric code. for use in aerial, conduit, open tray and underground duct installations <p>FEATURES:</p> <ol style="list-style-type: none"> Rated at 90°C High dielectric strength Low moisture absorption Chemical and sunlight resistant Low dielectric loss Excellent heat and moisture resistance <p>STANDARDS:</p> <ol style="list-style-type: none"> Listed by Underwriters Laboratories as 2400 volt nonshielded cable, Type MV-90, per UL Standard 1072. Conforms to ICEA S-96-659 and NEMA WC71 for Nonshielded Cables Rated 2001-5000 Volts. Sizes 1/0 AWG and larger pass UL and IEEE Standard 383 ribbon burner flame test and are UL listed For CT Use. 	 <p>CONSTRUCTION: Annealed tinned copper conductor, extruded conductor shield, EPR insulation, discharge and moisture resistant Hypalon jacket, surface printed.</p>
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USAWC	Part #	Size AWG or kcmil	No. of Strands	Thickness in Mils		Nominal Diameter Inches	COPPER CONDUCTOR			
				Insulation	Jacket		Approx. Net Wt. lbs/1000 ft	Copper Wt. Lbs/1000 ft	Ampacity *	
									Conduit	Duct
	6-012.4NSEH	6	7	125	80	.65	260	81	75	85
	4-012.4NSEH	4	7	125	80	.70	330	129	97	110
	2-012.4NSEH	2	7	125	80	.76	435	205	130	145
	1-012.4NSEH	1	19	125	80	.80	505	259	155	170
	1/0-012.4NSEH	1/0	19	125	80	.84	590	326	180	195
	2/0-012.4NSEH	2/0	19	125	80	.88	700	411	205	220
	3/0-012.4NSEH	3/0	19	125	95	.96	860	518	240	250
	4/0-012.4NSEH	4/0	19	125	95	1.02	1020	653	280	290
	250-012.4NSEH	250	37	140	110	1.14	1210	772	315	320
	350-012.4NSEH	350	37	140	110	1.24	1525	1080	385	385
	500-012.4NSEH	500	37	140	110	1.37	2130	1544	475	470
	750-012.4NSEH	750	61	155	125	1.62	3090	2316	600	585
	1000-012.4NSEH	1000	61	155	125	1.76	3960	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

NOTE: 1. PVC jacket may also be supplied

Specification

EPR HYPALON POWER CABLE, 2400 VOLTS

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

1. SCOPE

1.1 This specification describes single conductor EPR insulated, Hypalon 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 tinned copper per Part 2 of ICEA.

4. CONDUCTOR SHIELDING

4.1 Conductors shall be covered with a layer of extruded conducting thermosetting compound with an average thickness of not less than 15 mils and a minimum thickness of 12 mils. The extruded layer shall be compatible with and firmly bonded to the cable insulation and shall meet the resistivity 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 insulation thickness 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 Hypalon jacket shall be applied directly over the insulation. The jacket shall meet the requirements of Table 5-1, Type CSPE-HD for heavy duty Hypalon of ICEA. The 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.