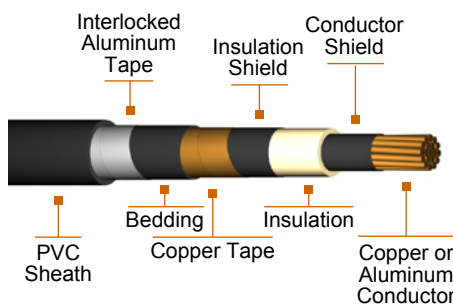


MV - 90 MC 5 KV 1C

5 kV Copper Conductor, XLPE Insulation, Copper Tape Shield, Interlocked Aluminum Tape Armor, and Outer PVC Jacket



Detail Description or Construction

Conductor

Round stranded copper conductor

Conductor Shield

Thermosetting extruded semi-conducting compound

Insulation

100% or 133% Cross-linked Polyethylene (XLPE) 90°C

Insulation Shield

Thermosetting extruded semi-conducting compound, easy of stripping

Metallic shield

Copper tape or uncoated copper wires

Bedding

PVC

Aarmor

Interlocked Aluminum tape

Jacket

PVC

Application

Primary power and distribution circuits in industrial, commercial and power circuit generating plants.

Single conductors cables, 1/0 AWG and larger, can be marked for CT Use to be installed in ladder cable tray, according NEC Article 318.

MV-90 cable with water blocking conductor and water blocking tapes, are specially designed to be installed in high humid installations.

Standards / Testing Specifications

- ICEA S - 93 - 639.

Marking

**PHELPS DODGE SIZE (AWG OR MCM)
5 KV (INSULATION LEVEL) XLPE-PVC MC.**

Installation

MV-90 cables may be installed in wet or dry locations at maximum operating temperature of 90°C for normal operation; 130°C for emergency and 250°C for short circuit conditions. Cables may be installed indoor and outdoor, exposed to sunlight, in raceway, conduit, duct or aerially supported by a messenger and directly buried according NEC 250-51.



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5 KV MV - 90 MC 1C							
Conductor Size	Minimum Number of Wires	Thickness of Sheath	Overall Diameter (approx)	Cable Weight (approx)		Minimum Bending Radii	Standard Packing
				kg / km			
AWG / MCM		mm	mm	Cu	Al	mm	m / reel
INSULATION LEVEL: 100%, THICKNESS OF INSULATION: 2,29 mm.							
8	7	1,27	23	530	475	280	1000
6	7	1,65	25	655	565	310	1000
4	7	1,65	26	780	635	320	1000
2	7	1,65	29	1.005	780	350	1000
1	18	1,65	30	1.125	840	360	1000
1/0	18	1,65	31	1.275	915	370	1000
2/0	18	1,65	32	1.450	1.005	390	1000
3/0	18	1,65	34	1.735	1.175	410	1000
4/0	18	1,65	36	2.210	1.305	440	1000
250	35	1,65	37	2.475	1.425	450	500
350	35	1,65	41	3.090	1.695	490	500
500	35	2,03	46	4.090	2.240	700	500
750	58	2,03	52	5.610	2.825	780	500
1000	58	2,03	57	7.525	3.590	860	500



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5 KV MV - 90 MC 1C							
Conductor Size	Minimum Number of Wires	Thickness of Sheath	Overall Diameter (approx)	Cable Weight (approx)		Minimum Bending Radii	Standard Packing
				kg / km			
AWG / MCM		mm	mm	Cu	Al	mm	m / reel
INSULATION LEVEL: 133%, THICKNESS OF INSULATION: 2,92 mm.							
8	7	1,65	25	625	570	310	1000
6	7	1,65	26	710	620	320	1000
4	7	1,65	29	890	750	350	1000
2	7	1,65	30	1.070	840	360	1000
1	18	1,65	31	1.190	910	370	1000
1/0	18	1,65	32	1.340	985	390	1000
2/0	18	1,65	34	1.590	1.140	410	1000
3/0	18	1,65	36	1.815	1.245	440	1000
4/0	18	1,65	37	2.090	1.385	450	1000
250	35	1,65	40	2.350	1.510	480	500
350	35	1,65	43	3.020	1.840	520	500
500	35	2,03	48	4.025	2.340	730	500
750	58	2,03	54	5.650	3.125	810	500
1000	58	2,03	58	7.065	3.710	880	500