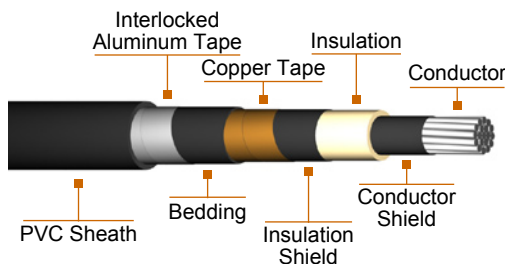


MV - 90 MC 15 KV 1C

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



Detail Description or Construction

Conductor
Round stranded aluminum 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

Metalic 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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MV - 90 MC 15 KV 1C							
Conductor Size AWG or MCM	Minimum Number of Wire	Thickness of Sheath mm	Overall Diameter (approx) mm	Cable Weight (approx) kg / km		Minimum Bending Radii mm	Standard Packing m / reel
				Cu	Al		
INSULATION LEVEL: 100%, THICKNESS OF INSULATION: 4,45 mm.							
2	7	1.65	34	1,305	1,080	410	1000
1	18	1.65	35	1,435	1,150	430	1000
1/0	18	1.65	36	1,590	1,235	440	1000
2/0	18	1.65	39	1,775	1,330	470	1000
3/0	18	1.65	40	2,010	1,440	480	1000
4/0	18	1.65	41	2,295	1,580	490	1000
250	35	1.65	43	2,620	1,775	650	500
350	35	2.03	47	3,360	2,180	710	500
500	35	2.03	52	4,270	2,585	780	500
750	58	2.03	57	5,935	3,415	860	500
1000	58	2.03	62	7,430	4,070	930	500
INSULATION LEVEL: 133%, THICKNESS OF INSULATION: 5,60 mm.							
2	7	1.65	36	1,425	1,205	440	1000
1	18	1.65	37	1,555	1,280	450	1000
1/0	18	1.65	39	1,720	1,360	470	1000
2/0	18	1.65	41	1,910	1,460	490	1000
3/0	18	1.65	43	2,205	1,640	650	1000
4/0	18	1.65	44	2,500	1,785	660	1000
250	35	1.65	46	2,805	2,045	700	500
350	35	2.03	50	3,525	2,345	750	500
500	35	2.03	55	4,645	2,960	830	500
750	58	2.03	59	6,130	3,610	900	500
1000	58	2.03	65	7,640	4,285	980	500