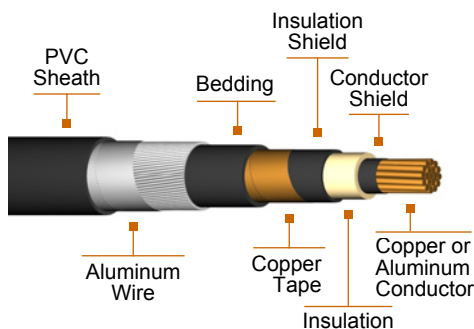


MV - 90 AWA 5 KV 1C

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



Detail Description or Construction

Conductor

Round stranded copper or 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

Metallic shield

Copper tape or uncoated copper wires

Bedding

PVC

Aarmor

Aluminum wire armor

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 AWA.**

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 Conductor, XLPE Insulation, Copper Tape Shield, Aluminum Wire Armor. and Outer PVC Jacket

5 KV MV-90 AWA 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	24	715	665	280	1000
6	7	1.65	25	845	760	310	1000
4	7	1.65	28	980	835	330	1000
2	7	1.65	29	1,160	935	350	1000
1	18	1.65	30	1,290	1,005	360	1000
1/0	18	1.65	31	1,440	1,085	370	1000
2/0	18	1.65	32	1,625	1,180	390	1000
3/0	18	1.65	34	1,925	1,360	410	1000
4/0	18	1.65	36	2,210	1,500	440	1000
250	35	1.65	37	2,475	1,630	450	500
350	35	1.65	41	3,090	1,910	490	500
500	35	2.03	45	4,090	2,405	550	500
750	58	2.03	52	5,610	3,090	620	500
1000	58	2.03	57	7,525	4,165	690	500



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5 KV MV-90 AWA 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	1.27	26	820	765	320	1000
6	7	1.65	28	915	825	330	1000
4	7	1.65	29	1,045	910	350	1000
2	7	1.65	30	1,230	1,010	360	1000
1	18	1.65	31	1,360	1,080	370	1000
1/0	18	1.65	32	1,515	1,160	390	1000
2/0	18	1.65	34	1,775	1,330	410	1000
3/0	18	1.65	35	2,010	1,445	430	1000
4/0	18	1.65	37	2,295	1,590	450	1000
250	35	1.65	39	2,565	1,720	470	500
350	35	1.65	43	3,250	2,070	520	500
500	35	1.65	47	4,270	2,585	570	500
750	58	2.03	53	5,725	3,200	640	500
1000	58	2.03	58	7,655	4,300	700	500