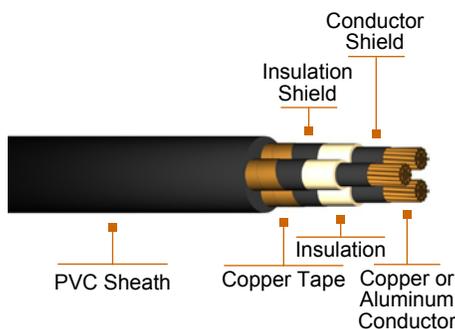


5 kV Copper Conductor, XLPE Insulation, Copper Tape Shield, and Outer PVC Jacket



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

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.**

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.



MV - 90 5 KV 3C

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

MV - 90 5 KV 3C							
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	2.03	32	1,150	980	230	1000
6	7	2.03	34	1,410	1,140	240	1000
4	7	2.03	36	1,790	1,360	260	1000
2	7	2.03	40	2,320	1,640	280	1000
1	18	2.03	42	2,690	1,830	300	1000
1/0	18	2.03	45	3,280	2,190	320	1000
2/0	18	2.79	48	3,840	2,480	340	1000
3/0	18	2.79	52	4,540	2,810	370	1000
4/0	18	2.79	55	5,410	3,240	390	1000
250	35	2.79	58	6,220	3,650	410	500
350	35	2.79	65	8,130	4,530	460	500
500	35	2.79	74	11,300	6,150	520	500



MV - 90 5 KV 3C

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MV - 90 5 KV 3C							
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: 2.29 mm.							
8	7	2.03	34	1,320	1,150	240	1000
6	7	2.03	36	1,590	1,310	260	1000
4	7	2.03	40	1,980	1,550	280	1000
2	7	2.03	43	2,520	1,840	300	1000
1	18	2.03	45	2,900	2,040	320	1000
1/0	18	2.79	50	3,510	2,430	350	1000
2/0	18	2.79	52	4,090	2,720	370	1000
3/0	18	2.79	55	4,790	3,070	390	1000
4/0	18	2.79	58	5,690	3,510	410	1000
250	35	2.79	62	6,510	3,930	440	500
350	35	2.79	68	8,450	4,840	480	500
500	35	3.56	78	11,670	6,510	550	500