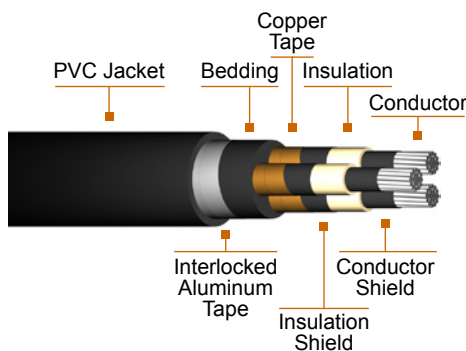


## MV - 90 MC 5 KV 3C

5 kV Aluminum Conductor, XLPE Insulation, Copper Tape Shield, Interlocked Aluminum Tape Armor (available Galvanized Steel Tape), 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

#### 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 3C							
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: 2,29 mm.							
8	7	1.65	41	2,265	2,095	290	1000
6	7	1.65	44	2,675	2,400	310	1000
4	7	2.03	47	3,230	2,795	340	1000
2	7	2.03	51	3,870	3,190	360	1000
1	19	2.03	54	4,875	4,015	380	1000
1 / 0	19	2.03	56	5,445	4,360	400	1000
2 / 0	19	2.03	59	6,120	4,755	420	1000
3 / 0	19	2.03	62	6,945	5,215	440	1000
4 / 0	19	2.03	65	7,945	5,800	460	1000
250	37	2.41	69	9,060	6,485	490	500
350	37	2.41	76	11,255	7,650	540	500
500	37	2.41	85	14,610	9,455	600	500
INSULATION LEVEL: 133%, THICKNESS OF INSULATION: 2,92 mm.							
8	7	1.65	44	2,605	2,435	310	1000
6	7	2.03	47	3,030	2,755	340	1000
4	7	2.03	51	3,525	3,095	360	1000
2	7	2.03	55	4,745	4,060	390	1000
1	19	2.03	57	5,230	4,370	400	1000
1 / 0	19	2.79	59	5,810	4,725	420	1000
2 / 0	19	2.79	62	6,500	5,135	440	1000
3 / 0	19	2.79	65	7,330	5,605	460	1000
4 / 0	19	2.41	69	8,505	6,330	490	1000
250	37	2.41	73	9,480	6,905	510	500
350	37	2.41	79	11,715	8,110	560	500
500	37	2.79	89	15,410	10,255	630	500