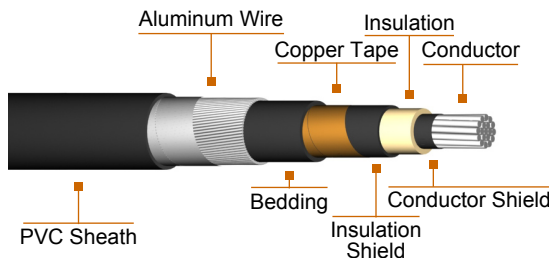


## 35 KV MV - 90 MC 1C

35 kV Aluminum Conductor, XLPE Insulation, Copper Tape Shield, Interlocked Aluminum Tape Armour, 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.

#### Armour

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)  
35 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.



## 35 KV MV - 90 MC 1C

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35 KV MV - 90 MC 1C							
Conductor Size	Minimum Number of Wire	Thickness of Sheath	Overall Diameter (approx.)	Cable Weight (approx)		Minimum Bending Radii	Standard Packing
				kg / km			
AWG or MCM		mm	mm	Cu	Al	mm	m / reel
INSULATION LEVEL: 100%, THICKNESS OF INSULATION: 8.76 mm.							
1 / 0	18	2.03	48	2,370	2,020	730	1000
2 / 0	18	2.03	50	2,580	2,135	750	1000
3 / 0	18	2.03	51	2,825	2,265	760	1000
4 / 0	18	2.03	53	3,150	2,435	800	1000
250	35	2.03	55	3,635	2,795	830	500
350	35	2.03	58	4,310	3,130	880	500
500	35	2.03	63	5,340	3,660	950	500
750	58	2.41	68	6,995	4,470	1,030	500
1000	58	2.41	73	8,485	5,130	1,090	500
INSULATION LEVEL: 133%, THICKNESS OF INSULATION: 10.7 mm.							
1 / 0	18	2.03	54	2,890	2,535	810	1000
2 / 0	18	2.03	55	3,110	2,665	830	1000
3 / 0	18	2.03	56	3,375	2,805	850	1000
4 / 0	18	2.03	58	3,700	2,990	880	1000
250	35	2.03	59	4,010	3,165	900	500
350	35	2.03	63	4,760	3,585	950	500
500	35	2.03	67	5,750	4,065	1,010	500
750	58	2.41	73	7,435	4,910	1,090	500
1000	58	2.41	77	8,950	5,595	1,160	500