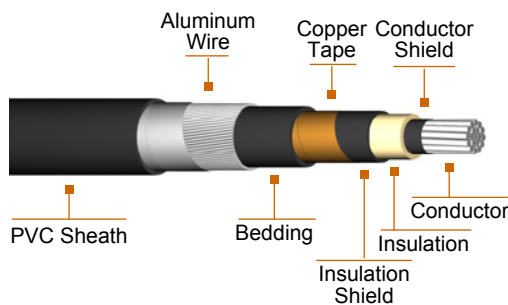


## MV - 90 AWA 35 KV 1C

35 kV Aluminum or Copper Conductor, XLPE Insulation, Copper Tape Shield, Aluminum Wire Armor, and Outer PVC Jacket



### Detail Description or Construction

#### Conductor

Round stranded aluminum or 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

#### Bedding

PVC

#### Armor

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)  
35 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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35 KV MV - 90 AWA 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: 8.74 mm							
1 / 0	18	2.03	48	2,615	2,265	590	1000
2 / 0	18	2.03	50	2,830	2,385	600	1000
3 / 0	18	2.03	51	3,090	2,525	610	1000
4 / 0	18	2.03	53	3,410	2,700	640	1000
250	35	2.03	54	3,710	2,870	650	500
350	35	2.03	58	4,900	3,725	700	500
500	35	2.03	63	5,975	4,290	760	500
750	58	2.41	69	8,090	5,570	840	500
1000	58	2.41	74	9,650	6,295	890	500
INSULATION LEVEL: 133%, THICKNESS OF INSULATION: 10.7 mm							
1 / 0	18	2.03	53	2,965	2,605	640	1000
2 / 0	18	2.03	54	3,180	2,730	650	1000
3 / 0	18	2.03	56	3,945	3,385	680	1000
4 / 0	18	2.03	58	4,290	3,585	700	1000
250	35	2.03	59	4,610	3,770	720	500
350	35	2.03	63	5,400	4,225	760	500
500	35	2.03	67	6,430	4,745	810	500
750	58	2.41	74	8,600	6,080	890	500
1000	58	2.41	80	11,605	8,250	970	500