



## 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)  
15 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 15 KV 3C

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

15 KV MV-90 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: 4,45 mm.							
2	7	2.79	52	3,230	2,540	370	1000
1	18	2.79	54	3,640	2,780	380	1000
1/0	18	2.79	56	4,130	3,050	400	1000
2/0	18	2.79	59	4,740	3,370	420	1000
3/0	18	2.79	62	5,470	3,750	440	1000
4/0	18	2.79	66	6,400	4,230	470	1000
250	35	2.79	69	7,260	4,690	490	500
350	35	3.56	78	9,650	6,040	550	500
500	35	3.56	86	12,610	7,450	610	500
INSULATION LEVEL: 133%, THICKNESS OF INSULATION: 5,60 mm.							
2	7	2.79	56	3,640	2,960	400	1000
1	18	2.79	59	4,070	3,210	420	1000
1/0	18	2.79	62	4,590	3,500	440	1000
2/0	18	2.79	64	5,210	3,840	450	1000
3/0	18	2.79	67	5,960	4,240	470	1000
4/0	18	2.79	70	6,920	4,740	500	1000
250	35	2.79	75	7,940	5,360	530	500
350	35	3.56	83	10,250	6,650	580	500
500	35	3.56	90	13,270	8,110	640	500