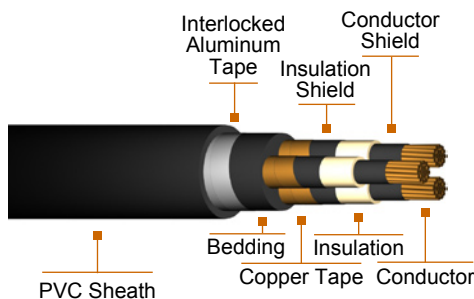


MV - 90 MC 5 KV 3C

5 KV Copper 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 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

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.



MV - 90 MC 5 KV 3C

5 KV Copper Conductor, XLPE Insulation, Copper Tape Shield, Interlocked Aluminum Tape Armor (available Galvanized Steel Tape), and Outer PVC Jacket

5 KV MV-90 MC 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	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	18	2.03	54	4,875	4,015	380	1000
1/0	18	2.03	56	5,445	4,360	400	1000
2/0	18	2.03	59	6,120	4,755	420	1000
3/0	18	2.03	62	6,945	5,215	440	1000
4/0	18	2.03	65	7,945	5,800	460	1000
250	35	2.41	69	9,060	6,485	490	500
350	35	2.41	76	11,255	7,650	540	500
500	35	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	18	2.03	57	5,230	4,370	400	1000
1/0	18	2.03	59	5,810	4,725	420	1000
2/0	18	2.03	62	6,500	5,135	440	1000
3/0	18	2.03	65	7,330	5,605	460	1000
4/0	18	2.41	69	8,505	6,330	490	1000
250	35	2.41	73	9,480	6,905	510	500
350	35	2.41	79	11,715	8,110	560	500
500	35	2.79	89	15,410	10,255	630	500