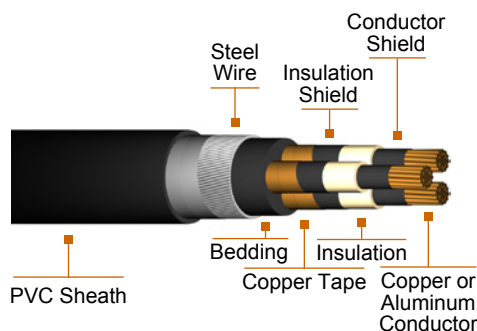


MV - 90 SWA 5 KV 3C

5 kV Copper Conductor, XLPE Insulation, Copper Tape Shield, Steel Wire Armor, 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

Steel 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)
5 KV (INSULATION LEVEL) XLPE-PVC SWA.**

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 SWA 5 KV 3C

5 kV Copper Conductor, XLPE Insulation, Copper Tape Shield, Steel Wire Armor, and Outer PVC Jacket

5 KV MV-90 SWA 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	39	2,315	2,150	470	1000
6	7	1.65	44	3,570	3,305	530	1000
4	7	2.03	47	4,180	3,750	570	1000
2	7	2.03	51	4,885	4,200	610	1000
1	18	2.03	53	5,385	4,520	640	1000
1/0	18	2.03	55	5,965	4,880	660	1000
2/0	18	2.03	59	8,055	6,690	720	1000
3/0	18	2.03	62	8,965	7,235	740	1000
4/0	18	2.03	66	10,115	7,940	800	1000
250	35	2.41	70	11,300	8,720	850	500
350	35	2.41	78	16,550	12,945	940	500
500	35	2.41	88	22,250	17,095	1,060	500

INSULATION LEVEL: 133%, THICKNESS OF INSULATION: 2,92 mm.

8	7	1.65	43	2,665	2,495	520	1000
6	7	2.03	47	3,980	3,715	570	1000
4	7	2.03	51	4,535	4,100	610	1000
2	7	2.03	54	5,250	4,570	650	1000
1	18	2.03	56	5,760	4,900	680	1000
1/0	18	2.03	59	7,750	6,665	720	1000
2/0	18	2.03	62	8,530	7,165	740	1000
3/0	18	2.03	65	9,450	7,725	780	1000
4/0	18	2.41	72	13,325	11,155	860	1000
250	35	2.41	75	14,560	11,985	900	500
350	35	2.41	80	17,205	13,605	970	500
500	35	2.79	94	26,650	21,495	1,130	500