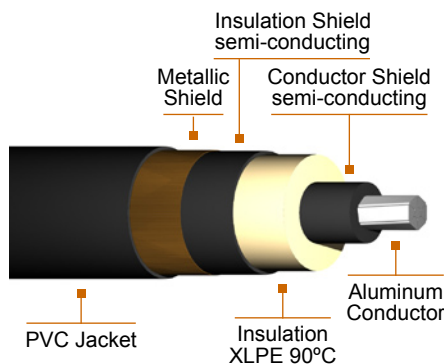


MV - 90 Power Cable

5 kV Aluminum Conductor, XLPE Insulation, Metallic Shield and Outer PVC Jacket



Detail Description or Construction

Conductor

Compacted aluminum conductor class B

Conductor Shield

Thermosetting extruded semi-conducting compound

Insulation

100% or 133% Cross-linked Polyethylene (XLPE) 90°C extruded in a real triple extrusion process

Insulation Shield

Thermosetting extruded semi-conducting compound, adequate adhesion to the insulation and easy of stripping

Metallic Shield

Uncoated helically applied copper wires or copper tape, as requested

Jacket

Extruded black sunlight resistant, flame retardant, oils resistant PVC jacket with excellent mechanical properties

Packaging

Non-returnable wooden drums

Options

- Compressed conductors
- Filled strand
- Tree retardant XLPE compound
- Copper tapes metallic shield
- Halogen free jacket
- CT USE applications
- Water blocking tapes
- Lineal low density Polyethylene jacket (LLDPE) jacket

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.



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Standards / Testing Specifications

- MV-90 meets or exceeds the requirements of ICEA S-93-639, AEIC CS5, UL 1072, Articles 310 and 326 of National Electrical Code.

Marking

Sunlight resistant and for CT Use.

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.

Packing

Non Returnable wooden reel with 300 m standard lengths or according reel capacity and minimum bending radius.



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MV90 5KV 100% and 133% Insulation Level

Conductor Size	Conductor Diameter	Insulation Thickness	Insulated Over Diameter	Jacket Thickness	Total Over Diameter	Total Weight	Ampacity (A)	
							Buried Duct 20°C Amb. Temp.	Free Air 40°C Amb. Temp.
AWG-MCM	mm	mm	mm	mm	mm	kg / km		
6	4.3	2.92	10.2	1.52	17.6	316	66	86
4	5.5	2.92	11.3	1.52	18.8	359	86	113
2	6.9	2.92	12.8	1.52	20.2	437	113	149
1	7.8	2.92	13.6	1.52	21.2	469	133	176
1/0	8.8	2.92	14.5	1.52	22.2	525	153	203
2/0	9.8	2.92	15.6	1.52	23.3	583	172	235
3/0	11.0	2.92	16.8	2.03	25.6	718	196	270
4/0	12.4	2.92	18.1	2.03	27.1	819	227	313
250	13.4	2.92	19.3	2.03	28.4	915	250	348
350	15.9	2.92	22.2	2.03	31.0	1,105	301	430
500	19.3	2.92	25.3	2.03	34.5	1,429	368	544
750	24.7	2.92	32.0	2.03	41.6	2,059	458	704
1000	28.5	2.92	35.9	2.79	47.1	2,773	524	841