



## Detail Description or Construction

### Conductor

Compacted copper conductor class B

### Conductor Shield

Thermosetting extruded semi-conducting compound

### Insulation

100% or 133% tree-retardant cross-linked polyethylene (TR-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
- Black polyethylene 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.



## MV - 90 5 KV 1C

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

### Standards / Testing Specifications

- MV-90 meets or exceeds the requirements of ICEA S-93-639, AEIC CS8, 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 on the conductor 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.



## MV - 90 5 KV 1C

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

MV90 5KV 100% AND 133% INSULATION LEVEL

Conductor Size	Conductor Diameter	Insulation Thickness	Insulated Over Diameter	Jacket Thickness	Total OD	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	400	85	110
4	5.5	2.92	11.3	1.52	18.8	493	110	145
2	6.9	2.92	12.8	1.52	20.2	649	145	190
1	7.8	2.92	13.6	1.52	21.2	737	170	225
1/0	8.8	2.92	14.5	1.52	22.2	863	195	260
2/0	9.8	2.92	15.6	1.52	23.3	1,008	220	300
3/0	11.0	2.92	16.8	2.03	25.6	1,255	250	345
4/0	12.4	2.92	18.1	2.03	27.1	1,496	290	400
250	13.4	2.92	19.3	2.03	28.4	1,717	320	445
350	15.9	2.92	22.2	2.03	31.0	2,227	385	550
500	19.3	2.92	25.3	2.03	34.5	3,033	470	695
750	24.7	2.92	32.0	2.03	41.6	4,463	585	900
1000	28.5	2.92	35.9	2.79	47.1	5,969	670	1,075

The data listed above is approximate and subject to normal manufacturing tolerances