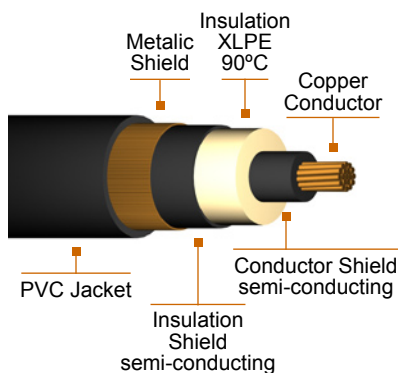


MV - 90 Power Cable

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



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.



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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.



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MV90 25KV 100% Insulation Level								
Conductor Size	Conductor Diameter	Nominal Insulation Thickness	Insulated Over Diameter	Nominal 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		
1	7.8	6.6	22.5	2.03	31.1	1,198	175	225
1/0	8.8	6.6	23.5	2.03	32.2	1,335	200	260
2/0	9.8	6.6	24.7	2.03	33.5	1,517	230	300
3/0	11.0	6.6	25.8	2.03	35.1	1,755	260	345
4/0	12.4	6.6	27.2	2.03	36.6	2,001	295	395
250	13.4	6.6	28.4	2.03	38.0	2,241	325	440
350	15.9	6.6	31.0	2.03	40.5	2,797	390	545
500	19.3	6.6	34.3	2.03	43.9	3,615	465	680
750	24.7	6.6	40.6	2.79	53.0	5,431	565	870
1000	28.5	6.6	44.5	2.79	57.0	6,845	640	1040

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



MV - 90 Power Cable

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

MV90 25KV 133% Insulation Level								
Conductor Size	Conductor Diameter	Nominal Insulation Thickness	Insulated Over Diameter	Nominal 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		
1	7.8	8.76	26.9	2.03	35.6	1,451	175	225
1/0	8.8	8.76	27.9	2.03	37.3	1,647	200	260
2/0	9.8	8.76	28.9	2.03	38.4	1,823	230	300
3/0	11.0	8.76	30.1	2.03	39.6	2,037	260	345
4/0	12.4	8.76	31.5	2.03	41.1	2,305	295	395
250	13.4	8.76	32.8	2.03	42.4	2,555	325	440
350	15.9	8.76	35.3	2.79	46.6	3,306	390	545
500	19.3	8.76	38.7	2.79	51.1	4,299	465	680
750	24.7	8.76	45.0	2.79	57.5	5,905	565	870
1000	28.5	8.76	48.8	2.79	61.4	7,289	640	1040

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