



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.



MV - 90 25 KV 1C

25 kV Aluminum 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 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



MV - 90 25 KV 1C

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Conductor Size	Conductor Diameter	Insulation Thickness	Insulated Over Diameter	Jacket Thickness	Total Over Diameter	Total Weight	Ampacity	
							Buried Duct 20°C Amb. Temp.	Free Air 40°C Amb. Temp.
AWG / MCM	mm	mm	mm	mm	mm	kg / km	A	A
MV90 25KV 100% Insulation Level								
1	7.8	6.6	22.5	2.03	31.1	930	137	176
1/0	8.8	6.6	23.5	2.03	32.2	997	156	203
2/0	9.8	6.6	24.7	2.03	33.5	1,092	180	235
3/0	11.0	6.6	25.8	2.03	35.1	1,218	203	270
4/0	12.4	6.6	27.2	2.03	36.6	1,324	231	309
250	13.4	6.6	28.4	2.03	38.0	1,439	254	344
350	15.9	6.6	31.0	2.03	40.5	1,675	305	426
500	19.3	6.6	34.3	2.03	43.9	2,011	364	532
750	24.7	6.6	40.6	2.79	53.0	3,027	442	681
1000	28.5	6.6	44.5	2.79	57.0	3,649	501	814
MV90 25KV 133% Insulation Level								
1	7.8	8.76	26.9	2.03	35.6	1,451	137	176
1/0	8.8	8.76	27.9	2.03	37.3	1,647	156	203
2/0	9.8	8.76	28.9	2.03	38.4	1,823	180	235
3/0	11.0	8.76	30.1	2.03	39.6	2,037	203	270
4/0	12.4	8.76	31.5	2.03	41.1	2,305	231	309
250	13.4	8.76	32.8	2.03	42.4	2,555	254	344
350	15.9	8.76	35.3	2.79	46.6	3,306	305	426
500	19.3	8.76	38.7	2.79	51.1	4,299	364	532
750	24.7	8.76	45.0	2.79	57.5	5,905	442	681
1000	28.5	8.76	48.8	2.79	61.4	7,289	501	814