



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

Non-returnable wooden drums

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 15 KV 1C

15 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 15 KV 1C

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

MV90 15KV 100% Insulation Level								
Conductor Size (AWG-MCM)	Conductor Diameter mm	Insulation Thickness mm	Insulated Over Diameter mm	Jacket Thickness mm	Total Over Diameter mm	Total Weight kg / km	Ampacity (A)	
							Buried Duct 20°C Amb. Temp.	Free Air 40°C Amb. Temp.
2	6.9	4.45	17.3	2.03	25.7	668	121	153
1	7.8	4.45	18.1	2.03	26.7	713	137	176
1/0	8.8	4.45	19.1	2.03	27.7	773	156	203
2/0	9.8	4.45	20.1	2.03	28.8	847	180	235
3/0	11.0	4.45	21.3	2.03	30.1	924	203	270
4/0	12.4	4.45	22.7	2.03	31.5	1,029	231	313
250	13.4	4.45	23.8	2.03	32.9	1,134	254	348
350	15.9	4.45	26.7	2.03	36.1	1,393	305	430
500	19.3	4.45	30.1	2.03	39.0	1,698	364	536
750	24.7	4.45	36.4	2.79	47.6	2,607	442	692
1000	28.5	4.45	40.2	2.79	52.6	3,242	501	829



MV - 90 15 KV 1C

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

MV90 15KV 133% Insulation Level								
Conductor Size (AWG-MCM)	Conductor Diameter mm	Insulation Thickness mm	Insulated Over Diameter mm	Jacket Thickness mm	Total Over Diameter mm	Total Weight kg / km	Ampacity (A)	
							Buried Duct 20°C Amb. Temp.	Free Air 40°C Amb. Temp.
2	6.9	5.46	19.3	2.03	27.8	748	121	153
1	7.8	5.46	20.3	2.03	28.8	803	137	176
1/0	8.8	5.46	21.2	2.03	29.8	868	156	203
2/0	9.8	5.46	22.3	2.03	30.9	951	180	235
3/0	11.0	5.46	23.5	2.03	32.2	1,032	203	270
4/0	12.4	5.46	24.8	2.03	33.6	1,141	231	313
250	13.4	5.46	26.0	2.03	35.6	1,296	254	348
350	15.9	5.46	28.7	2.03	38.2	1,522	305	430
500	19.3	5.46	32.0	2.03	41.0	1,835	364	536
750	24.7	5.46	38.4	2.79	50.7	2,878	442	692
1000	28.5	5.46	42.1	2.79	54.6	3,429	501	829