

MV-90 XLPE Insulated

2.4 kV, Non Shielded

Features

UL Listed as MV-90 Dry.
Insulation is Sunlight and Track Resistance.

Application

Per NEC, use is limited to 2400 volts.
For use in industrial and utility applications, for dry locations, in accordance with NEC.

Standards

UL 1072
Medium Voltage Power Cables.

Specifications

Maximum operating voltage:

- 2.4 kV per UL.

Maximum conductor operation temperatures:

In dry locations:

- Normal: 90 °C
- Emergency: 130 °C
- Short Circuit: 250 °C

Engineering Information

1. Conductor: Soft annealed uncoated copper compacted Class B per ASTM B496 or hard drawn Aluminum-1350 compacted Class B per ASTM B400.

On request, compressed strand.

Sizes: 8 AWG (6 AWG Aluminum) up to 1000 kcmil.

On request, larger conductor sizes available.

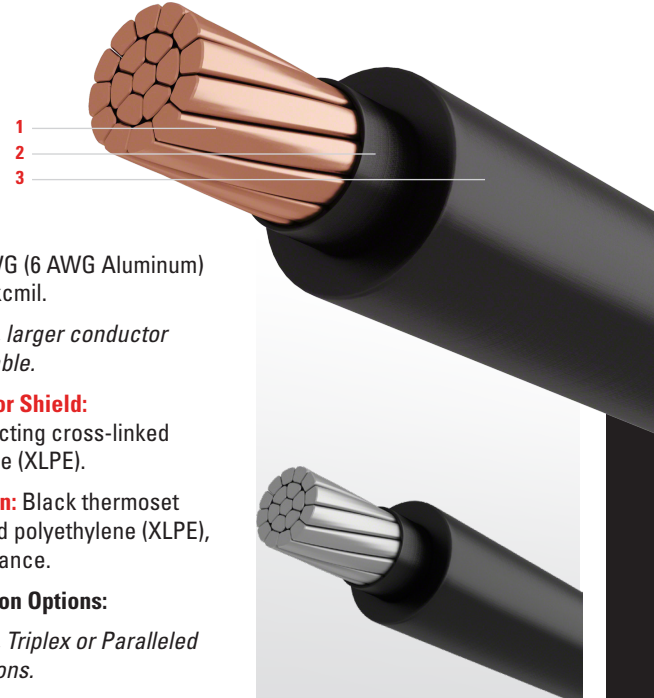
2. Conductor Shield:

Semiconducting cross-linked polyethylene (XLPE).

3. Insulation: Black thermoset cross-linked polyethylene (XLPE), track resistance.

Configuration Options:

On request, Triplex or Paralleled configurations.



ALUMINUM CONDUCTOR

Technical Data

2.4 kV XLPE Insulated

Size AWG or kcmil	Number of Strands	Conductor Nominal OD	100% Insulation Level			
			Insulation Thickness	Approximate Outside Diameter	Approximate Net Weight	
					Copper	Aluminum
in	mil	in	lb/kft	lb/kft		
8	7	0.13	110	0.39	94	—
6	7	0.17	110	0.42	131	74
4	7	0.21	110	0.47	187	97
2	7	0.27	110	0.52	273	131
1	19	0.30	110	0.55	331	151
1/0	19	0.34	110	0.59	405	178
2/0	19	0.38	110	0.63	498	212
3/0	19	0.42	110	0.68	614	254
4/0	19	0.48	110	0.73	760	305
250	37	0.52	120	0.81	898	361
350	37	0.62	120	0.90	1227	474
500	37	0.74	120	1.02	1715	641
750	61	0.91	130	1.22	2539	928
1000	61	1.06	130	1.38	3344	1197

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.

Ampacities: Refer to beginning of section.

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