

# MV-90 3C, EPR Insulated, PVC Jacketed

2.4 kV, Non-Shielded

**CME**<sup>®</sup>  
wire and cable

A Viakable Company

## Features

UL Listed as MV-90.

Rated For CT use 1/0 AWG and up.

Jacket is listed Sunlight Resistant and Oil Resistant I.

Jacket is flame retardant.

## Application

Per NEC, use is limited to 2400 volts maximum.

For use in power system in industrial establishments and utility applications, for dry locations, in accordance with NEC.

## Standards

UL 1072

Medium Voltage Power Cables.

ICEA S-96-659/NEMA WC71

Standard for Nonshielded Cables Rated 2001-5000 Volts for Use in the Distribution of Electrical Energy.

## Specifications

Maximum operating voltage:

- 2.4 kV in accordance with UL
- 5 kV 100% and 3 kV 133% per ICEA

Maximum conductor operation temperatures:

Wet and 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.

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

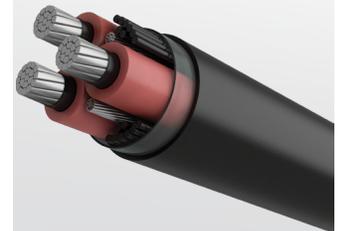
**2. Conductor Shield:** Semi conducting cross-linked polyethylene (XLPE).

**3. Insulation:** Thermoset ethylene propylene rubber (EPR).

**4. Grounding (Optional):** One or three soft annealed bare copper conductors cabled with phase conductors.

**5. Assembly:** Conductors cabled with non-hygroscopic fillers, as required and binder tape.

**6. Jacket:** Black sunlight resistance and flame retardant thermoplastic polyvinyl chloride (PVC) compound.



ALUMINUM  
CONDUCTOR

Technical Data

## 2.4 kV EPR Insulated

Size AWG or kcmil	Number of Strands	Conductor Diameter in	Insulation Thickness mil	Ground Conductor* per Interstice		Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight	
				Copper	Aluminum			Copper	Aluminum
				AWG				lb/ft	
8	7	0.13	90	8	—	80	0.96	529	—
6	7	0.17	90	6	6	80	1.03	689	515
4	7	0.21	90	6	4	80	1.13	891	614
2	7	0.27	90	6	4	80	1.25	1196	755
1	19	0.30	90	4	4	80	1.31	1438	883
1/0	19	0.34	90	4	4	80	1.39	1695	993
2/0	19	0.38	90	4	2	80	1.48	2011	1128
3/0	19	0.42	90	3	2	80	1.58	2436	1321
4/0	19	0.48	90	3	2	110	1.76	3032	1628
250	37	0.52	90	2	2	110	1.88	3521	1860
300	37	0.57	90	2	1	110	1.99	4073	2082
350	37	0.62	90	2	1	110	2.08	4630	2304
400	37	0.66	90	1	1	110	2.18	5221	2565
500	37	0.74	90	1	1/0	110	2.34	6306	2986
600	61	0.81	90	1/0	1/0	110	2.53	7414	3427
750	61	0.91	90	1/0	2/0	140	2.80	9168	4190
1000	61	1.06	90	2/0	2/0	140	3.13	11905	5271

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

**Ampacities:** Refer to tables at beginning of section.

\* At the option of manufacturer, Ground Conductor can be divided in three, one in each interstice.