

MC or MV-90 Copper, EPR Insulated

2.4 kV, Non-shielded

CME[®]
wire and cable

A Viakable Company

Features

UL listed as MC or MV-90.

Cable Rated as Sunlight Resistance for CT use.

Cable with supplementary sunlight resistance jacket, and ground conductor, is rated for Direct Burial.

True Triple extrusion system and closed handling raw materials system, to eliminate any contact with ambient, until extrusion process ends.

Application

For power and distribution circuits in industrial and commercial installations.

May be used in wet or dry locations, where exposed or concealed, installed in cable trays, raceways, duct, as specified by NEC.

Standards

UL 1072

Medium Voltage Power Cables.

ICE A 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

Maximum conductor operation temperature:

- 90 °C wet and dry

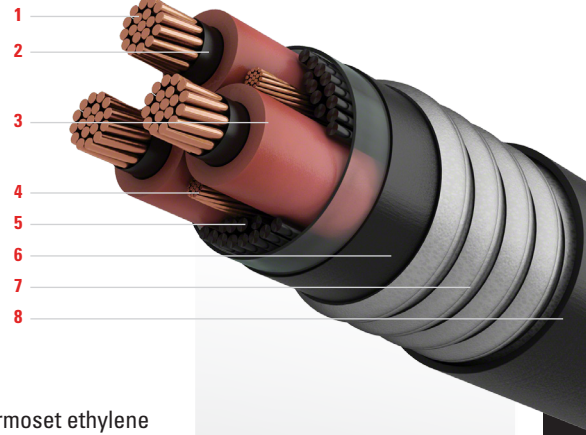
Engineering Information

1. Conductor: Soft annealed uncoated copper compacted Class B per ASTM B496.

On request, compacted strand aluminum conductor.

Sizes: 8 AWG up to 1000 kcmil.

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



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

4. Grounding: 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. Inner Jacket (optional): Black sunlight resistance and flame retardant polyvinyl chloride (PVC) compound.

7. Armor: An aluminum or galvanized steel interlocked armor, applied over the binder tape or the optional inner jacket.

8. Jacket (Supplementary): Black sunlight resistance and flame retardant polyvinyl chloride (PVC) compound.

Technical Data

2.4 kV Interlocked, Armored and Sheathed

Size AWG or kcmil	Number of Strands	Conductor Diameter in	Insulation Thickness mil	Minumum Grounding Conductor* AWG	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight	
							Steel Armor lb/kft	Aluminum Armor lb/kft
8	7	0.13	90	8	50	1.07	906	676
6	7	0.17	90	6	50	1.15	1090	849
4	7	0.21	90	6	50	1.24	1335	1068
2	7	0.27	90	6	50	1.36	1698	1395
1	19	0.30	90	4	50	1.43	1951	1649
1/0	19	0.34	90	4	50	1.51	2245	1921
2/0	19	0.38	90	4	60	1.66	2555	2257
3/0	19	0.42	90	3	60	1.76	3010	2701
4/0	19	0.48	90	3	60	1.88	3550	3214
250	37	0.52	90	2	60	2.00	4067	3718
300	37	0.57	90	2	60	2.10	4663	4289
350	37	0.62	90	2	60	2.20	5256	4858
400	37	0.66	90	1	60	2.30	5861	5463
500	37	0.74	90	1	75	2.49	7089	6652
600	61	0.81	90	1/0	75	2.68	8307	7850
750	61	0.91	90	1/0	75	2.89	9999	9493
1000	61	1.06	90	2/0	85	3.23	12925	12373

2.4 kV Interlocked, Jacketed, Armored and Sheathed

Size AWG or kcmil	Number of Strands	Conductor Diameter in	Insulation Thickness mil	Minumum Grounding Conductor* AWG	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight	
							Steel Armor lb/kft	Aluminum Armor lb/kft
8	7	0.13	90	8	50	1.24	1235	866
6	7	0.17	90	6	50	1.31	1439	1052
4	7	0.21	90	6	50	1.41	1712	1286
2	7	0.27	90	6	50	1.53	2139	1633
1	19	0.30	90	4	60	1.67	2330	1900
1/0	19	0.34	90	4	60	1.74	2643	2185
2/0	19	0.38	90	4	60	1.83	3020	2531
3/0	19	0.42	90	3	60	1.93	3636	2992
4/0	19	0.48	90	3	60	2.04	4214	3523
250	37	0.52	90	2	60	2.23	4841	4177
300	37	0.57	90	2	60	2.33	5477	4772
350	37	0.62	90	2	75	2.46	6107	5439
400	37	0.66	90	1	75	2.56	6746	6068
500	37	0.74	90	1	75	2.72	7960	7223
600	61	0.81	90	1/0	75	2.91	9495	8464
750	61	0.91	90	1/0	75	3.12	11273	10153
1000	61	1.06	90	2/0	85	3.53	14272	13322

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 beginning of section.

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