

MC or MV-90 Copper, XLPE Insulated

2.4 kV, Non-shielded

CME[®]
wire and cable

A Viakable Company

Features

UL listed as MC or MV-90.

Overall Jacketed cable Rated as Sunlight Resistance for CT use.

Cable with supplementary sunlight resistance jacket, 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.

ICEA S-96-659/NEMA WC71

Standard for Nonshielded Cables Rated 2001-5000 Volts for use in the Distribution of Electric Energy.

Specifications

Maximum operating voltage:

- 2.4 kV

Maximum conductor operation temperature:

- 90 °C wet and dry

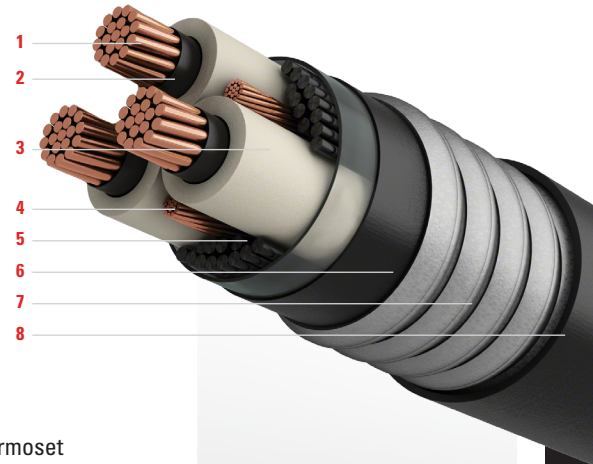
Engineering Information

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 crosslinked polyethylene (XLPE).

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	876	646
6	7	0.17	90	6	50	1.15	1056	815
4	7	0.21	90	6	50	1.24	1296	1029
2	7	0.27	90	6	50	1.36	1652	1349
1	19	0.30	90	4	50	1.43	1902	1600
1/0	19	0.34	90	4	50	1.51	2192	1868
2/0	19	0.38	90	4	60	1.66	2497	2199
3/0	19	0.42	90	3	60	1.76	2947	2638
4/0	19	0.48	90	3	60	1.88	3481	3145
250	37	0.52	90	3	60	2.00	3971	3606
300	37	0.57	90	2	60	2.10	4582	4207
350	37	0.62	90	2	60	2.20	5169	4771
400	37	0.66	90	2	60	2.30	5748	5327
500	37	0.74	90	1	75	2.49	6989	6551
600	61	0.81	90	1	75	2.68	8166	7683
750	61	0.91	90	1/0	75	2.89	9877	9371
1000	61	1.06	90	1/0	85	3.23	12742	12159

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	1115	836
6	7	0.17	90	6	50	1.31	1307	1018
4	7	0.21	90	6	50	1.41	1563	1247
2	7	0.27	90	6	50	1.53	1939	1587
1	19	0.30	90	4	50	1.67	2150	1851
1/0	19	0.34	90	4	50	1.74	2449	2131
2/0	19	0.38	90	4	60	1.83	2812	2473
3/0	19	0.42	90	3	60	1.93	3279	2928
4/0	19	0.48	90	3	60	2.04	3831	3454
250	37	0.52	90	3	60	2.23	4487	4065
300	37	0.57	90	2	60	2.33	5122	4691
350	37	0.62	90	2	60	2.46	5807	5352
400	37	0.66	90	2	60	2.56	6409	5932
500	37	0.74	90	1	75	2.72	7617	7122
600	61	0.81	90	1	75	2.91	8836	8297
750	61	0.91	90	1/0	75	3.12	10594	10031
1000	61	1.06	90	1/0	85	3.53	13763	13108

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.