MV-90 3C, XLPE Insulated, PVC Jacketed

2.4 kV, Non-Shielded

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%
- 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 crosslinked polyethylene (XLPE).

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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

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A Viakable Company



Technical Data

2.4 kV EPR Insulated

Size AWG or kcmil	Number of Strands	Conductor Diameter	Insulation Thickness	Ground Conductor* per Interstice			Approximate	Approximate Net Weight	
				Copper	Aluminum	Jacket Thickness	Outside Diameter	Copper	Aluminum
		in	mil AWG		VG	mil	mil in		lb/kft
8	7	0.13	90	8	_	80	0.96	503	—
6	7	0.17	90	6	6	80	1.03	660	486
4	7	0.21	90	6	4	80	1.13	857	580
2	7	0.27	90	6	4	80	1.25	1156	716
1	19	0.30	90	4	4	80	1.31	1395	840
1/0	19	0.34	90	4	4	80	1.39	1648	947
2/0	19	0.38	90	4	2	80	1.48	1989	1106
3/0	19	0.42	90	3	2	80	1.58	2380	1265
4/0	19	0.48	90	3	2	110	1.76	2974	1570
250	37	0.52	90	3	2	110	1.88	3422	1760
300	37	0.57	90	2	1	110	1.99	4006	2014
350	37	0.62	90	2	1	110	2.08	4557	2232
400	37	0.66	90	2	1	110	2.18	5099	2444
500	37	0.74	90	1	1/0	110	2.34	6222	2901
600	37	0.81	90	1	1/0	110	2.53	7311	3324
750	61	0.91	90	1/0	2/0	140	2.80	9127	4150
1000	61	1.06	90	1/0	2/0	140	3.13	11792	5158

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.