

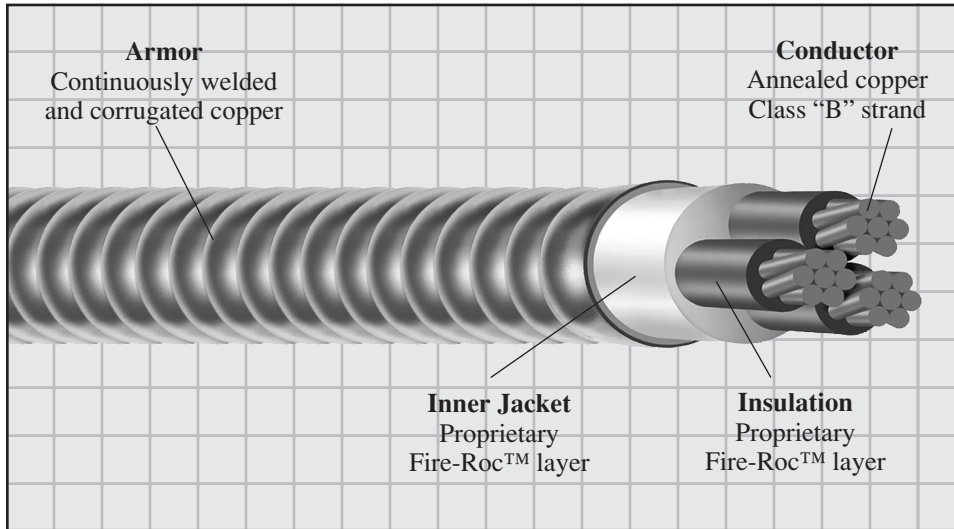


**Innovative
Engineered Cable
Solutions**

A Marmon Wire & Cable
Berkshire Hathaway Company

VITALink® MC

2 Hour Fire Rated Power Cable



VITALink® MC

2 Hour Fire Rated Power Cable

90°C*, 600 Volt
NEC Type MC
UL Listed

UL Electrical Circuit
Protective Systems (FHIT 36)

Scope

VITALink® MC power cable is listed by UL as 2-hour fire-rated when installed in accordance with RSCC installation procedures and system listings. This cable meets the requirements of an “Electrical Circuit Protective System” as referred to in Articles 695 and 700 of

the National Electrical Code (NEC). It meets all the electrical and fire-resistive requirements of NFPA 502 and NFPA 130. The details of this system appear in Electrical Circuit Protective System (FHIT), System No. 36 of the UL Fire Resistance Directory.

Features

- 2 hour fire rating per UL 2196
- Low smoke, Halogen free design
- Simple to terminate with commercially available brass MC connectors
- Printed number coding allows for easy circuit identification
- Uses conventional stripping tools
- Available in long lengths
- Welded armor forms an impervious barrier
- Armor is impact & crush resistant
- Fire-rated splice available

Applications

- Emergency Tunnel Ventilation
- Emergency Tunnel Lighting
- Fire Pump Feeders
- Emergency Generator Feeders

Performance Standards

- UL listed, NEC Type MC in accordance with UL Standard 1569
- 2 hour fire rated per UL standard 2196 following ASTM E119 (1,850°F with water hose stream)
- Electrical Circuit Protective Systems (FHIT) — System No. 36 of the UL Fire Resistance Directory
 - Meets and exceeds fire rated cable requirements in NFPA 130 for Transit applications
 - Meets and exceeds cable requirements in NFPA 502 for Tunnel applications
- Exceeds NEC Article 695 & 700 fire endurance requirements
- Rated FT-4 / IEEE 1202 Vertical Flame test; -ST1, limited smoke
- For use in wet locations to 90°C
- Armored with copper sheath that exceeds the NEC requirement for equipment grounding conductor
- Complies with NFPA 130 and 502 total smoke released and low toxicity

Construction

Conductor:

Annealed copper, Class “B” strand per ASTM B-3 & B-8

Insulation:

Thermoset, low smoke zero halogen silicone rubber

Circuit Identification:

Printed numbers per ICEA Method 4

Inner Jacket:

Thermoset, low smoke zero halogen silicone rubber

Armor:

Continuously welded and corrugated copper

Outer Jacket (optional):

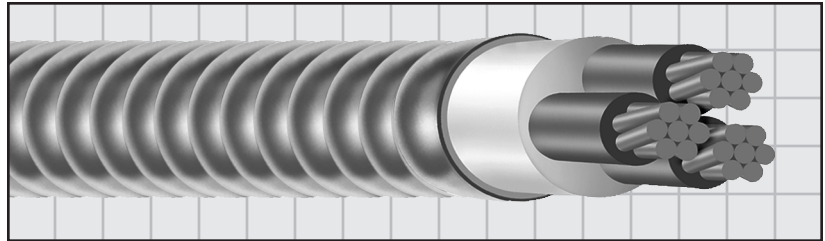
Black Low Smoke, zero halogen polyolefin

* Rated 90°C for normal operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

VITALink® MC 2 Hour Fire Rated Power Cable

90°C, 600 Volt
NEC Type MC
UL Listed

UL Electrical Circuit Protective System
(FHIT 36)



Consult factory for availability and minimum quantity requirements

Product Code	Size (AWG kcmil)	Number of Conductors	Nominal Core Diameter (In)	Nominal Armor Diameter (In)	Nominal Cable Diameter (In)	Approximate Net Weight (Lbs/1000 ft)
VM02014-000	14	2	0.47	0.78	0.88	450
VM03014-000	14	3	0.50	0.82	0.92	510
VM04014-000	14	4	0.57	0.89	0.99	580
VM02012-000	12	2	0.51	0.82	0.92	500
VM03012-000	12	3	0.56	0.89	0.99	590
VM04012-000	12	4	0.62	0.94	1.04	670
VM02010-000	10	2	0.58	0.89	0.99	570
VM03010-000	10	3	0.61	0.94	1.04	670
VM04010-000	10	4	0.67	1.00	1.10	750
VM03008-000	8	3	0.72	1.04	1.14	820
VM04008-000	8	4	0.80	1.16	1.26	960
VM03006-000	6	3	0.80	1.16	1.26	1,000
VM04006-000	6	4	0.89	1.22	1.32	1,160
VM03004-000	4	3	0.91	1.24	1.34	1,140
VM04004-000	4	4	1.01	1.35	1.45	1,480
VM03003-000	3	3	0.97	1.30	1.40	1,410
VM04003-000	3	4	1.07	1.40	1.50	1,700
VM03002-000	2	3	1.04	1.38	1.48	1,600
VM04002-000	2	4	1.15	1.50	1.60	1,940
VM03001-000	1	3	1.20	1.59	1.69	1,990
VM04001-000	1	4	1.34	1.73	1.85	2,550
VM031X0-000	1/0	3	1.29	1.67	1.79	2,350
VM041X0-000	1/0	4	1.43	1.82	1.94	2,750
VM032X0-000	2/0	3	1.39	1.80	1.92	2,700
VM042X0-000	2/0	4	1.54	1.95	2.07	3,320
VM033X0-000	3/0	3	1.49	1.92	2.04	3,130
VM043X0-000	3/0	4	1.68	2.13	2.25	3,950
VM034X0-000	4/0	3	1.62	2.04	2.16	3,670
VM044X0-000	4/0	4	1.82	2.25	2.37	4,680
VM01250-000	250	1	0.89	1.22	1.32	1,620
VM03250-000	250	3	1.81	2.25	2.37	4,380
VU04250-000	250	4	2.01	2.46	2.61	5,470
VM01350-000	350	1	1.00	1.35	1.45	2,000
VM03350-000	350	3	2.03	2.48	2.63	5,620
VM04350-000	350	4	2.26	2.71	2.86	7,050
VM01500-000	500	1	1.12	1.48	1.58	2,575
VM03500-000	500	3	2.31	2.82	2.97	7,420
VM04500-000	500	4	2.60	3.13	3.30	9,520
VM01750-000	750	1	1.33	1.73	1.85	3,600

Rev 1: 5-19-11