



Applications

- NFPA 130, NFPA 502
- Lighting, Ventilation, Communications
- NBC OS1, NBC 3.2.7.10
- CSA 22.1 Article 12-700

Features

- 2-Hour fire resistance
- Splice available
- Superior resistance to flame propagation
- Only conventional tools required to terminate
- Commercially available brass/stainless steel connectors
- Printed number coding allows for easy identification (ICEA Method 4)
- Labor savings on termination, installation, and handling
- Superior impact & crush resistance (hazardous locations)
- Low smoke, low toxicity, halogen free design
- Welded armor forms an impervious barrier
- Sunlight Resistant
- 90°C for Wet Locations
- Flexible
- Long continuous lengths available
- Multiple sizes and conductor counts available
- VFD cable design available
- Copper sheath can be used for equipment bonding exceeding CEC Rule 10-618 and 10-804

Performance Standards

- ULC S139 – Listed as 2-hour fire rated with Hose Stream FHIT7 120 of the ULC Fire Resistance Directory
- IEEE 1202/FT4 vertical flame test; ST1 limited smoke
- CSA 22.2 No 123 – cUL Listed as Type RC90
- Copper Conductors to ASTM B8

Overview

VITALink® RC90 is a 600V 2-hour fire rated cable listed to ULC S139 with hose stream. It is specifically designed to meet both the electrical and fire-resistive cable requirements of NFPA 130 and NFPA 502 for Emergency Communications, Emergency Lighting & Emergency Ventilation. When installed per system FHIT7 120 and the CEC, VITALink® RC90 meets code requirements for 2 hour Fire Rated Circuits, Electrical Circuit Integrity Systems, Survivability and Circuit Integrity. VITALink® RC90 Cables offer lowered cost, reliability and ease of installation advantages over MI cable and other methods of providing Fire Rated Circuits.

The equipment grounding copper armor is terminated with commercially available brass MC/RC connectors and the cable connections are made without the need for splicing or use of special tools. Compared to Mineral Insulated (MI) cable, VITALink® RC90 is not exposed to costly field expenses in preparing cable ends, special panel penetrations, additional flexible terminations, and the splicing of shorter lengths in longer runs. VITALink® RC90 is not susceptible to failures caused by moisture ingress through leaky seals or faulty storage.

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 over Outer Jacket (In)	Approximate Net Weight (Lbs/1000 ft)
VM011X0-200	1/0	1	0.66	1.00	1.11	935
VM012X0-200	2/0	1	0.70	1.04	1.15	1,050
VM013X0-200	3/0	1	0.75	1.08	1.18	1,190
VM014X0-200	4/0	1	0.81	1.16	1.26	1,375
VM01250-200	250	1	0.89	1.22	1.32	1,555
VM01350-200	350	1	0.99	1.35	1.45	1,955
VM01500-200	500	1	1.13	1.50	1.60	2,530
VM01750-200	750	1	1.34	1.73	1.85	3,535
VM02014-200	14	2	0.49	0.82	0.92	495
VM02012-200	12	2	0.53	0.82	0.92	520
VM02010-200	10	2	0.58	0.89	0.99	585
VM03014-200	14	3	0.52	0.82	0.92	525
VM03012-200	12	3	0.56	0.89	0.99	585
VM03010-200	10	3	0.61	0.94	1.04	660
VM03008-200	8	3	0.72	1.04	1.15	800
VM03006-200	6	3	0.80	1.16	1.26	980
VM03004-200	4	3	0.91	1.24	1.34	1,210
VM03003-200	3	3	0.97	1.30	1.40	1,365
VM03002-200	2	3	1.04	1.41	1.51	1,570
VM03001-200	1	3	1.21	1.59	1.71	1,945
VM031X0-200	1/0	3	1.29	1.67	1.79	2,230
VM032X0-200	2/0	3	1.39	1.80	1.92	2,600
VM033X0-200	3/0	3	1.49	1.92	2.04	3,030
VM034X0-200	4/0	3	1.62	2.04	2.16	3,595
VM03250-200	250	3	1.80	2.26	2.41	4,275
VM03350-200	350	3	2.02	2.48	2.63	5,460
VM03500-200	500	3	2.30	2.82	2.97	7,225
VM04014-200	14	4	0.57	0.89	0.99	590
VM04012-200	12	4	0.62	0.94	1.04	660
VM04010-200	10	4	0.67	1.00	1.11	755
VM04008-200	8	4	0.80	1.16	1.26	955
VM04006-200	6	4	0.89	1.22	1.32	1,340
VM04004-200	4	4	1.00	1.35	1.45	1,450
VM04003-200	3	4	1.07	1.41	1.51	1,645
VM04002-200	2	4	1.15	1.50	1.60	1,890
VM04001-200	1	4	1.34	1.73	1.85	2,375
VM041X0-200	1/0	4	1.43	1.82	1.94	2,745
VM042X0-200	2/0	4	1.54	1.95	2.07	3,215
VM043X0-200	3/0	4	1.68	2.12	2.25	3,830
VM044X0-200	4/0	4	1.82	2.26	2.41	4,610
VM04250-200	250	4	2.00	2.46	2.63	5,365
VM04350-200	350	4	2.25	2.71	2.86	6,905
VM04500-200	500	4	2.60	3.13	3.30	9,370
VM05014-200	14	5	0.63	0.94	1.04	645
VM05012-200	12	5	0.68	1.00	1.11	735
VM05010-200	10	5	0.74	1.08	1.18	850
VM05008-200	8	5	0.88	1.22	1.32	1,075
VM05006-200	6	5	0.99	1.30	1.40	1,315
VM05004-200	4	5	1.11	1.48	1.58	1,705

Note: For other sizes and configurations not shown above please consult RSCC Customer Service Representative.



Marmon Engineered Wire & Cable LLC
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