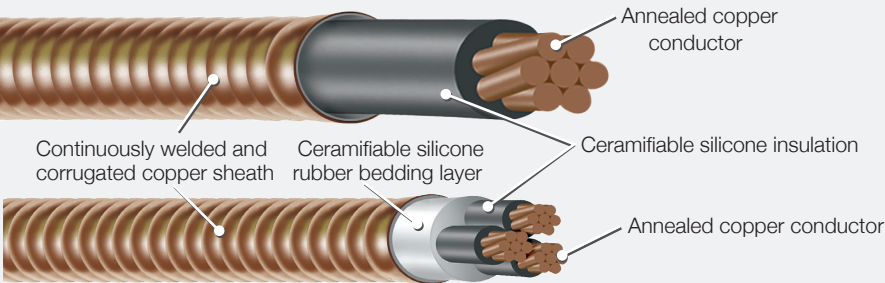


VITALink® Power Cable

2-Hour Fire Rated



ULC S139 with hose stream
90°C, 600 Volt CEC Type RC90
CSA Listed 22.1
UL/ULC Electrical Circuit
Integrity System (FHIT7 120, 120A & 60)

VITALink® is a self-contained 2-hour fire rated cable system CSA Listed as Type RC90 and Certified to ULC S139 "Tests for Fire Resistive Cables". VITALink meets the code requirements for 2-hour fire rated circuits when installed as per the Canadian Electrical Code, along with the manufacturer's instructions and qualification criteria of ULC Electrical Circuit Integrity System (FHIT7-120). Depending on the application, VITALink also meets the code requirement for Electrical Circuit Protective Systems, Survivability, and/or Circuit Integrity when the above criteria are met. We equally have Canadian approval for the FHIT7 120A and FHIT7 60A. This cable meets the National Building Code of Canada's section 3.2.7.10 requirements and is compliant with the Canadian Electrical Code.

VITALink cables offer cost, reliability, and ease of installation and ease of installation advantages over other methods of providing Fire Rated Circuits.

The equipment grounding copper sheath is terminated with a readily available brass connector (multiple sources) and the cable connections are made without the need for splicing or special tools. When compared to Mineral Insulated (MI) cable, VITALink 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 is not susceptible to voltage failures caused by moisture ingress through leaky seals or faulty storage.

Alternative methods such as installations in isolated services spaces are, for the most part, expensive and inefficient solutions. It must be remembered that service spaces do not test the electrical capability of the circuit during or after a fire but only the structural ability to prevent spread of fire.

Features

- 2-Hour Fire Rating per ULC S139 with hose stream, Horizontal & Vertical applications
- Simple termination, standard tools widely available brass connectors
- Welded copper sheath suitable for equipment bonding per CEC rules 10-618 and 10-804
- Welded copper sheath forms impervious armor
- Suitable for wet locations
- Available in long lengths

Performance Standards

- CSA Listed type RC90 per CSA 22.2 No. 123
- 2 Hour Fire Rating per ULC S139
- Electrical Circuit Integrity System #120 (FHIT7) - ULC Canada
- Wet location rating 90°C
- Meets NFPA 130 for Transit and NFPA 502 for tunnel applications
- Single conductor ampacity when installed per CEC Table 1
- FHIT7 120, 120A, 60 & 60A

Applications

- Fire Pumps
- Emergency Systems
- Exhaust & Pressurization fans
- Fireman's Elevators
- Fire Alarm
- Egress elevators
- Emergency Device activation
- Lighting & Signage
- ATS

Product Code	Size (AWG kcmil)	Number of Conductors	Nominal Core Diameter (In)	Nominal Armor Diameter (In)	Nominal Cable Diameter over Outer Jacket (In)(-200)	Approximate Net Weight (Lbs/1000 ft)	Ampacity 75°C 90°C	
VM02014-100	14	2	0.49	0.82	0.92	395	20	25
VM03014-100	14	3	0.52	0.82	0.92	425	20	25
VM04014-100	14	4	0.57	0.89	0.99	480	20	25
VM02012-100	12	2	0.53	0.82	0.92	415	25	30
VM03012-100	12	3	0.56	0.89	0.99	475	25	30
VM04012-100	12	4	0.62	0.94	0.104	575	25	30
VM02010-100	10	2	0.58	0.89	0.99	475	35	40
VM03010-100	10	3	0.61	0.94	1.04	542	35	40
VM04010-100	10	4	0.67	1.00	1.11	635	35	40
VM03008-100	8	3	0.72	1.04	1.15	675	50	55
VM04008-100	8	4	0.80	1.16	1.26	815	50	55
VM03006-100	6	3	0.80	1.16	1.26	840	65	75
VM04006-100	6	4	0.89	1.22	1.32	990	65	75
VM03004-100	4	3	0.91	1.24	1.34	1140	85	95
VM04004-100	4	4	1.00	1.35	1.45	1285	85	95
VM03003-100	3	3	0.97	1.30	1.40	1210	100	115
VM04003-100	3	4	1.07	1.41	1.51	1475	100	115
VM03002-100	2	3	1.04	1.41	1.51	1400	115	130
VM04002-100	2	4	1.15	1.50	1.60	1700	115	130
VM03001-100	1	3	1.21	1.59	1.71	1715	130	145
VM04001-100	1	4	1.34	1.73	1.85	2125	130	145
VM011X0-100	1/0	1	0.66	1.00	1.11	815	230	260
VM031X0-100	1/0	3	1.29	1.67	1.79	1990	150	170
VM041X0-100	1/0	4	1.43	1.82	1.94	2485	150	170
VM012X0-100	2/0	1	0.70	1.04	1.15	925	265	300
VM032X0-100	2/0	3	1.39	1.80	1.92	2345	175	195
VM042X0-100	2/0	4	1.54	1.95	2.07	2935	175	195
VM013X0-100	3/0	1	0.75	1.08	1.18	1055	310	350
VM033X0-100	3/0	3	1.49	1.92	2.04	2755	200	225
VM043X0-100	3/0	4	1.68	2.12	2.25	3530	200	225
VM014X0-100	4/0	1	0.81	1.16	1.26	1235	360	405
VM034X0-100	4/0	3	1.62	2.04	2.16	3305	230	260
VM044X0-100	4/0	4	1.82	2.26	2.41	4205	230	260
VM01250-100	250	1	0.89	1.22	1.32	1410	405	455
VM03250-100	250	3	1.80	2.26	2.41	3870	255	290
VM42250-100	250	4	2.00	2.46	2.63	4925	255	290
VM01350-100	350	1	0.99	1.35	1.45	1795	505	570
VM03350-100	350	3	2.02	2.48	2.63	5015	310	350
VM04350-100	350	4	2.25	2.71	2.86	6420	310	350
VM01500-100	500	1	1.13	1.48	1.60	2350	620	700
VM03500-100	500	3	2.30	2.82	2.97	6720	380	430
VM04500-100	500	4	2.60	3.13	3.30	8740	380	430
VM01750-100	750	1	1.34	1.73	1.85	3285	785	885

For other configurations not shown above, please contact your Cerco Cable Technical Sales Representative.

VITALINK RC90 Copper Metal Sheath Grounding AWG Equivalency Chart

Size AWG	1 cond.	2 cond.	3 cond.	4 cond.	5 cond.	7 cond.	8 cond.	9 cond.	10 cond.	12 cond.
14		2	2	1	1	1	1	1/0	1/0	1/0
12		2	2	1	1	1	1/0	1/0	1/0	1/0
10		1	1	1	1	1/0	1/0	1/0	2/0	2/0
8		1	1	1/0	1/0	1/0	2/0			
6		1	1/0	1/0	1/0	2/0				
4			1/0	1/0	2/0					
3			1/0	2/0						
2			2/0	2/0						
1			2/0	2/0						
1/0	1		2/0	3/0						
2/0	1		3/0	3/0						
3/0	1		3/0	3/0						
4/0	1/0		3/0	3/0						
250	1/0		3/0	4/0						
350	1/0		4/0	4/0						
400	2/0		4/0	250						
500	2/0		4/0	250						
600	2/0		250							
750	2/0									