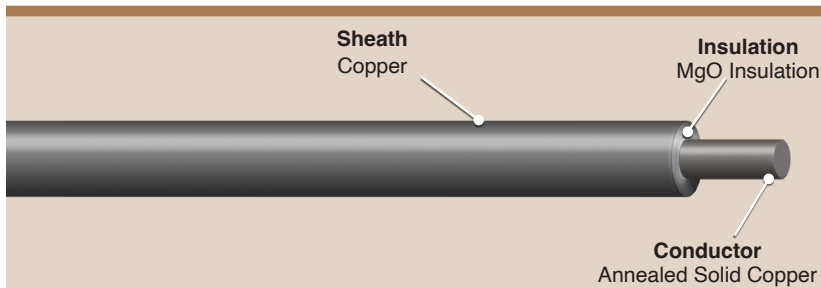




VITALink® MI

2-Hour Fire Rated Power Cable



NEC Code Compliant 2-Hour
Fire Rated Power
Cable with Copper Sheath
90°C, 600 Volt
NEC Type MI
UL Listed
System FHIT 1010

Features

- 2-Hour Fire Rating per UL 2196, Horizontal & Vertical applications
- Standard tools for brass connectors
- Available in long lengths without factory joints
- Copper sheath suitable for equipment grounding
- Copper sheath forms an impervious armor

Performance Standards

- UL Listed type MI per NEC Article 332
- 2 Hour Fire Rating per UL 2196
- Electrical Circuit Integrity System FHIT 1010
- 90°C rated
- Single conductor free air ampacity when installed per NEC article 332.80 "Ampacity"

Performance Standards

- Critical Operations Power Systems (NEC Article 708)
- Fire Pumps, NEC Article 695
- Emergency Systems, NEC Article 700
- Exhaust & Pressurization fans
- Fireman's Elevators
- National Fire Alarm & Signaling Code (NFPA 72) 12.4 Pathway Survivability Levels 2 & 3.
- Egress elevators, NFPA 101
- Emergency Device Activation
- Lighting & Signage

Contractor Installation Notes:

- Install per the National Electrical Code including Article 332 that covers the standard use of Mineral Insulated Cable and refers to ampacities in free air, as applicable. Article 772 covers Fire-resistive systems requirements. Additional and typically more stringent instructions are to be followed for the fire-resistive system as described below.
- Follow the Manufacturer's Instructions for a valid 2-hour fire-resistive rating. These installation procedures are necessary to qualify for UL 2196, where temperatures reach 1850°F during testing.
- Comply with the qualification criteria and requirements specified in UL Electrical Circuit Integrity System FHIT 1010.
- Cable support spacing: Supports must be located at a maximum distance of 6 ft. on-center in both the horizontal and vertical orientations.

Overview

VITALink® MI is a self-contained 2-hour fire rated cable system UL Listed as Type MI and Certified to UL 2196 "Tests for Fire Resistive Cables". Installed per the National Electrical Code, Marmon IEI manufacturer's instructions and the qualification criteria of UL Electrical Circuit Integrity System FHIT 1010, VITALink® MI meets the code requirements for 2 hour Fire Rated Circuits, Electrical Circuit Protective Systems, Survivability or Circuit Integrity as applicable.

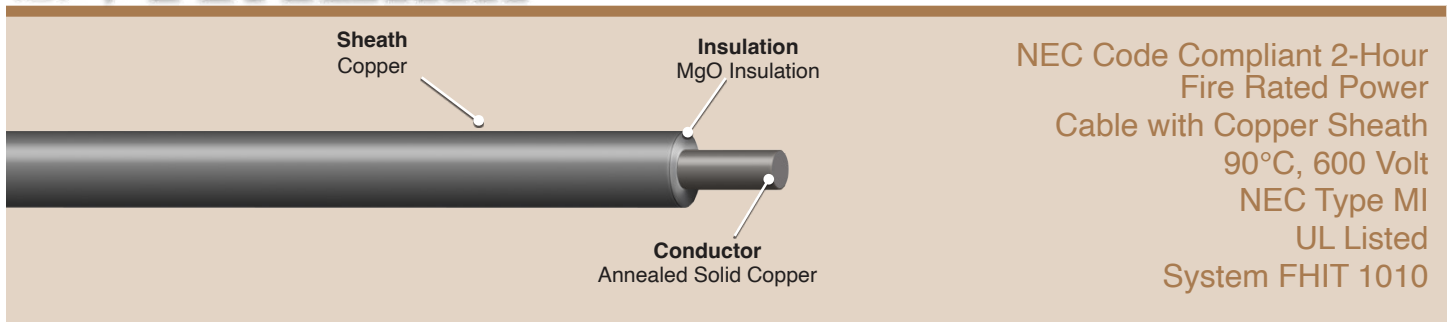
VITALink® MI Cables offer cost, reliability and ease of installation advantages over other methods of providing Fire Rated Circuits.

The equipment grounding copper sheath is terminated with a readily available brass connector.

Alternate methods such as encasement in 5 inches of concrete or enclosure within 2-hour fire-resistant building construction may become impractical and may lack validating electrical circuit integrity during or after a fire.



2-Hour Fire Rated Power Cable



Product Code	Size (AWG kcmil)	# of Conductor	Approximate Net Weight (Lbs/1000 ft)	Nom. Diameter (In)	NEC 75° C Ampacity ^[1] ^[2] (Amps)	NEC 90° C Ampacity ^[1] ^[2] (Amps)	Conductor Trade Size (in)
MI01002-000	2 AWG	1	457	0.449	170	190	3/4"
MI01001-000	1 AWG	1	541	0.496	195	220	3/4"
MI011X0-000	1/0 AWG	1	652	0.512	230	260	3/4"
MI012X0-000	2/0 AWG	1	800	0.580	265	300	3/4"
MI013X0-000	3/0 AWG	1	911	0.612	310	350	3/4"
MI014X0-000	4/0 AWG	1	1187	0.684	360	405	1"
MI01250-000	250 kcmil	1	1358	0.746	405	455	1-1/4"
MI01350-000	350 kcmil	1	1691	0.834	505	570	1-1/4"
MI01500-000	500 kcmil	1	2305	1.000	620	700	1-1/4"
MI02008-000	8 AWG	2	424	0.512	50	55	3/4"
MI03008-000	8 AWG	3	666	0.590	50	55	3/4"
MI03006-000	6 AWG	3	699	0.621	65	75	3/4"
MI03004-000	4 AWG	3	1002	0.746	85	95	1-1/4"
MI04016-000	16 AWG	4	249	0.387	10 ^[3]	20	1/2"
MI04014-000	14 AWG	4	350	0.465	20	25	3/4"
MI04012-000	12 AWG	4	400	0.465	25	30	3/4"
MI04010-000	10 AWG	4	599	0.590	35	40	3/4"
MI04008-000	8 AWG	4	632	0.590	50	55	3/4"
MI04006-000	6 AWG	4	1008	0.730	65	75	1-1/4"

[1] Single conductor when installed per Article 332.80 (B), following Table 310.17

[2] Multiconductor when installed per Article 332.80, following Table 310.16, no more than 3 current carrying conductors otherwise derate per Table 310.15(C)(1) Adjustment Factors for More Than Three Current-Carrying Conductors.

[3] Section 240.4(D) shall be referenced for conductor overcurrent protection limitations, except as modified elsewhere in the Code.