

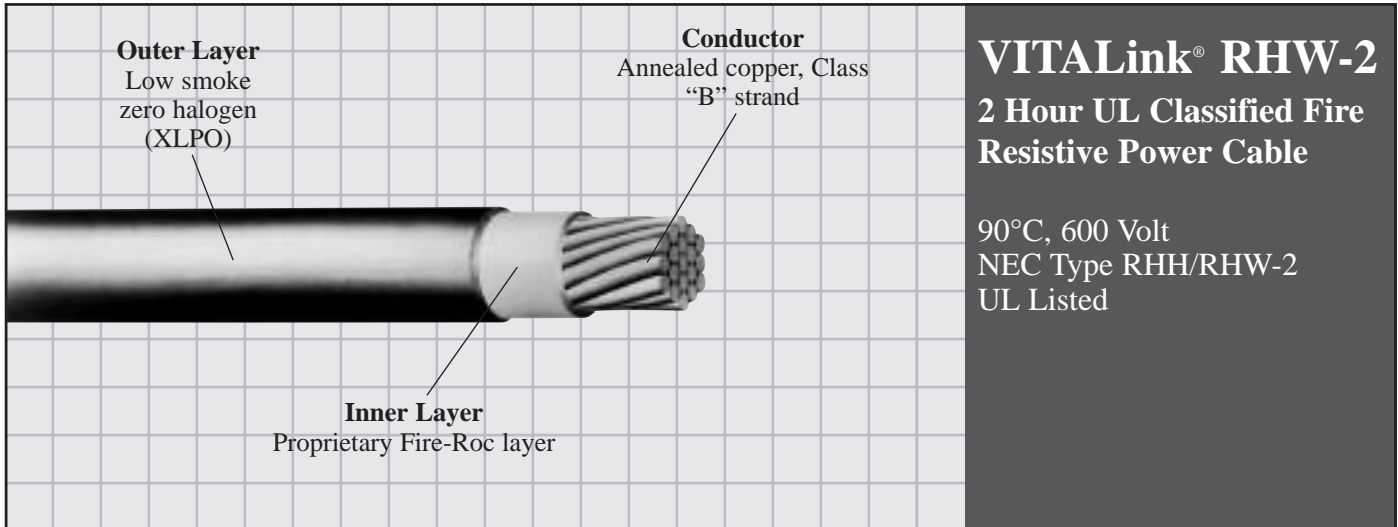


**Innovative
Engineered Cable
Solutions**

A Marmon Wire & Cable/Berkshire Hathaway Company

VITALink® RHW-2

2 Hour Fire Rated Power Cable



VITALink® RHW-2 2 Hour UL Classified Fire Resistive Power Cable

90°C, 600 Volt
NEC Type RHH/RHW-2
UL Listed

Scope

VITALink® RHW is a unique cable which offers superior fire endurance capabilities along with the well-established benefits and features associated with NEC Type RHW cable designs. It is specifically designed to meet the circuit integrity requirements for "Fire Pump" and

"Emergency Systems" cable applications with respect to NEC-2011 Articles 695, 700 and 708. It has applications in Road Tunnels and Transit Systems as required by NFPA 502-2011 and NFPA 130-2010 respectively.

Features

- 2 hour fire rated (FHIT) System 33 includes:
 - Pulling lubricants
 - Fire rated ground wire
 - 60 ft vertical run distance
 - Fire rated splice
- Rated for dry and wet locations
- Installs in steel conduit with steel fittings
- Low Smoke, Halogen free design
- Thin wall (composite) construction for installation ease
- Easy stripability
- Available in long lengths
- No special tools or connectors needed
- Easily pulled (low friction jacket)

Performance Standards

- 2 hour fire rated per UL standard 2196 (1,850 F with a water hose stream) FHIT – System No. 33
- UL Listed, NEC Type RHH/RHW-2 in accordance with UL Standard No. 44
- UL Rated as -40°C
- Cable passes the UL VW-1 vertical flame test
- UL Rated as Gasoline and Oil Resistant Type 1
- UL Rated as Sunlight Resistant
- UL Listed as "ST1" (Limited Smoke) - per UL 1685
- UL Listed as "FT4" (Vertical Tray) - per UL 1685
- Low toxicity index per NES 713

Applications

- Exceeds NEC Article 695, 700 & 708 fire endurance requirements for use in "fire pump" in "emergency systems" cable applications
- Ideal for Emergency Lighting and Emergency Ventilation circuits described in NFPA 130 and NFPA 502

Construction

Conductor:

Specialized copper engineered to minimize embrittlement due to fire exposure. Class "B" strand per ASTM B170

Insulation:

Two-layer composite construction

Inner Layer:

Proprietary Low Smoke Zero Halogen thermoset Fire-Roc layer

Outer Layer:

Black Low-Smoke Zero Halogen Cross Linked Polyolefin (XLPO)

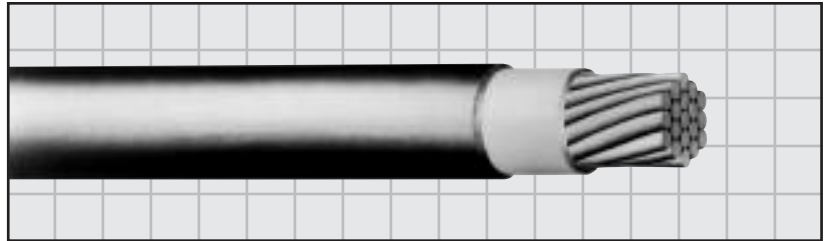
VITALink® RHW-2

2 Hour UL Classified Fire Resistant Power Cable¹

90°C, 600 Volt

NEC Type RHH/RHW-2

UL Listed



Product Code	Conductor Size (AWG Kcmil)	Number of Strands	Insulation Thickness (mils)	Approx. Diameter (inches)	Approx. Weight (lbs/kft)	Ampacity ² (amperes)	Conduit Size 3/C ⁴ (inches)	Conduit Size 4/C ⁴ (inches)
VR01014-200	14	7	45	0.17	24	15 ³	1/2	1/2
VR01012-200	12	7	45	0.19	34	20 ³	1/2	1/2
VR01010-200	10	7	45	0.21	48	30 ³	1/2	3/4
VR01008-200	8	7	60	0.27	78	55	3/4	1
VR01006-200	6	7	75	0.34	122	75	1	1 1/4
VR01004-200	4	7	75	0.38	178	95	1 1/4	1 1/4
VR01003-200	3	7	75	0.41	217	115	1 1/4	1 1/4
VR01002-200	2	7	75	0.44	265	130	1 1/4	1 1/2
VR01001-200	1	19	100	0.53	347	145	1 1/2	2
VR011X0-200	1/0	19	100	0.57	424	170	1 1/2	2
VR012X0-200	2/0	19	100	0.61	520	195	2	2
VR013X0-200	3/0	19	100	0.66	639	225	2	1 1/2
VR014X0-200	4/0	19	100	0.72	787	260	2	2 1/2
VR01250-200	250	37	130	0.83	964	290	2 1/2	2 1/2
VR01350-200	350	37	130	0.93	1303	350	2 1/2	3
VR01500-200	500	37	130	1.06	1808	430	3 1/2	3 1/2
VR01600-200	600	61	145	1.17	2184	475	3	3 1/2
VR01750-200	750	61	145	1.27	2683	535	4	4

Notes:

¹ Installation per UL Electrical Circuit Protective Systems (FHIT) - System No. 33, and the National Electrical Code (NFPA 70)

² Ampacity is based on Table 310.15(B)(16) of the National Electrical Code (NEC) based on the 90C column with 30C ambient, and 3 current carrying conductors. Temperature limitations per 110.14 of the NEC needs to be considered. Table does not take into consideration voltage drop or fault current capability.

³ Ampacity shown for 14, 12 and 10 AWG conductors is limited by NEC section 240.4(D).

⁴ Conduit fill does not include a ground wire and is based on EMT with 3 or 4 conductors of the same size. Consult the NEC for conduit fill using IMC or RMC. Larger conduit may be needed when installing a ground wire.