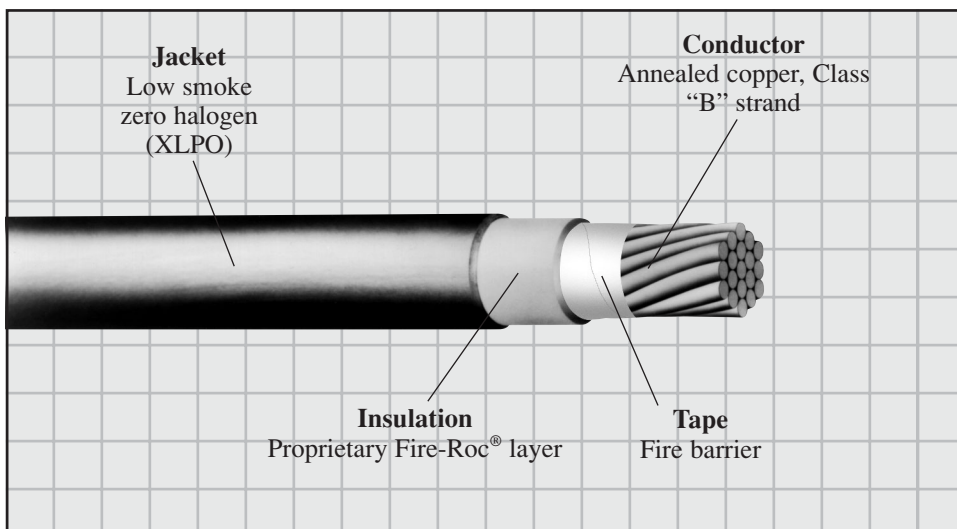


# VITALink® RHW

## 2 Hour Fire Rated Power Cable



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

90°C / 75°C\*, 600 Volt  
 NEC Type RHH/RHW  
 UL Listed

Spec. RSS-5-156

### 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 Articles 695 and 700. It has applications in Healthcare Facilities and Transit Systems as required by NEC Article 517 and NFPA 130 respectively

### Features

- 2 hour fire rating
- Moisture Resistant
- Installs in EMT with steel fittings
- Low Smoke, Halogen free design
- Flexible for installation ease
- Easy stripability
- Available in long lengths
- No special tools, connectors, or procedures
- Easily pulled (low friction jacket)

\* 90°C dry, 75° wet per NEC Table 310.13

### Performance Standards

- 2 hour fire rated per UL standard 2196 (1,850 F with a water hose stream)
- Electrical Circuit Protective Systems (FHIT) – System No. 27 of the UL Fire Resistance Directory
- UL Listed, NEC Type RHH/RHW in accordance with UL Standard No. 44
- Type RHW rating allows for use in wet locations at 75°C
- Type RHH rating allows for use in dry locations at 90°C
- 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

### Applications

- Exceeds NEC Article 695 & 700 fire endurance requirements for use in "fire pump" in "emergency systems" cable applications
- Meets requirements of NEC Article 517 Healthcare Facilities
- Complies with NFPA 130 Par. 4.3.2. for use in Transit Systems

### Construction

**Conductor:**  
 Annealed copper, Class "B" strand per ASTM B-3 & B-8

**Tape:**  
 Helically applied fire barrier

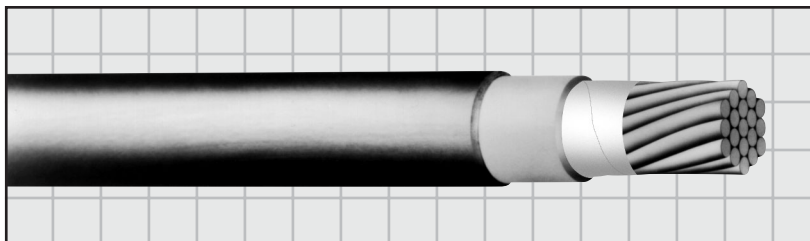
**Insulation:**  
 Proprietary Low Smoke Zero Halogen thermoset Fire-Roc® layer

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

# VITALink® RHW

## 2 Hour UL Classified Fire Resistant Power Cable<sup>1</sup>

90°C / 75°C\*, 600 Volt  
 NEC Type RHH/RHW  
 UL Listed



Spec. RSS-5-156

Consult factory for availability and minimum quantity requirements

Product Code	Conductor Size (AWG Kcmil)	Number of Strands	Insulation Thickness (mils)	Jacket Thickness (mils)	Approx. Diameter (inches)	Approx. Weight (lbs/kft)	Ampacity <sup>2</sup> (amperes)	Conduit Size 3/C <sup>5</sup> (inches)	Conduit Size 4/C <sup>5</sup> (inches)
P41-0140	14	7	45	15	0.22	36	15 <sup>3</sup>	3/4	3/4
P41-0120	12	7	45	15	0.24	47	20 <sup>3</sup>	3/4	3/4
P41-0110	10	7	45	15	0.26	62	30 <sup>3</sup>	3/4	1
P41-0080	8	7	60	30	0.35	103	55	1	1 1/4
P41-0060	6	7	60	30	0.39	141	75	1 1/4	1 1/4
P41-0040	4	7	60	30	0.44	199	95	1 1/4	1 1/4
P41-0030	3	7	60	30	0.47	239	110	1 1/4	1 1/2
P41-0021	2	7	60	30	0.50	288	130	1 1/4	1 1/2
P41-0010	1	19	80	45	0.60	388	150	2	2
P41-0100	1/0	19	80	45	0.64	467	170	2	2
P41-0200	2/0	19	80	45	0.69	566	195	2	2 1/2
P41-0300	3/0	19	80	45	0.74	688	225	2	2 1/2
P41-0400	4/0	19	80	45	0.79	840	260	2 1/2	2 1/2
P41-0250	250	37	95	65	0.91	1039	290	2 1/2	3
P41-0350	350	37	95	65	1.02	1387	350	3	3
P41-0500	500	37	95	65	1.14	1903	430	3	3 1/2
P41-0600	600	61	110	65	1.25	2278	475	3 1/2	4
P41-0750	750	61	110	65	1.36	2786	535	3 1/2	4

Notes:

- <sup>1</sup> Installation per UL Electrical Circuit Protective System (FHIT) - System No. 27, and the National Electrical Code (NFPA 70)
- <sup>2</sup> Ampacity is based on Table 310.16 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.
- <sup>3</sup> Ampacity shown for 14, 12 and 10 AWG conductors is limited by 2002 NEC section 240.4(D).
- <sup>4</sup> Table does not take into consideration voltage drop or fault current capability.
- <sup>5</sup> Conduit is sized for 3 or 4 conductors of the same size. Ground wire size will need to be considered.