

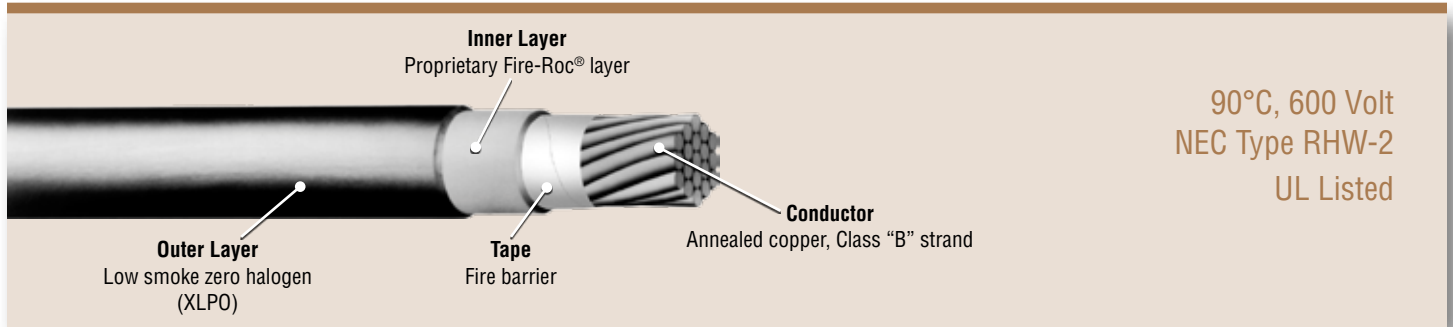


www.vitalinkcable.com

# VITALink® 300

## Type RHW-2

### 2 Hour Fire Rated Power Cable



### Features

- 2 hour fire rating
- Moisture Resistant
- Approved with Champion Flame Shield Phenolic Conduit Type XW
- 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)
- 2 hour fire rated splice
- Approved with Polywater Dyna-Blue pulling lubricant

### Scope

VITALink® RHW-2 is a unique cable which offers superior fire endurance capabilities along with the well-established benefits and features associated with NEC Type RHW-2 cable designs. It is specifically designed to meet the circuit integrity requirements for “Emergency Lighting”, “Emergency Communication” and “Emergency Ventilation” applications with respect to NFPA 502 when installed in Champion Flame Shield Phenolic Conduit Type XW.

### Performance Standards

- Passed UL 2196 for 2 hours when tested with Champion Flame Shield Phenolic Conduit Type XW
- UL Listed, NEC Type RHW-2 in accordance with UL Standard No. 44
- UL Rated as -40°C
- UL Rated as Gasoline and Oil Resistant Type 1
- UL Rated as Sunlight Resistant
- UL Classified as “LS (Limited Smoke)”
- Low toxicity index per NES 713

### Applications

- Meets all NFPA 502 fire resistive cable requirements for Emergency Lighting, Emergency Communication and Emergency Ventilation applications
- Exceeds NFPA 130 requirements fire resistive cable application

### Construction

**Conductor:** Specialized copper engineered to minimize embrittlement due to fire exposure. Class “B” stranding per ASTM B3

**Tape:** Helically applied fire barrier

**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)

**Jacket:** Black Low-Smoke Zero Halogen Polyolefin (colors available on request)



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Product Code	Conductor Size (AWG Kcmil)	Number of Strands	Insulation Thickness (mils)	Approx. Diameter (inches)	Approx. Weight (lbs/ft)	Ampacity <sup>1</sup> (amperes)
VR01014-300	14	7	45	0.19	29	15 <sup>2</sup>
VR01012-300	12	7	45	0.21	39	20 <sup>2</sup>
VR01010-300	10	7	45	0.24	54	30 <sup>2</sup>
VR01008-300	8	7	60	0.30	84	55
VR01006-300	6	7	75	0.36	126	75
VR01004-300	4	7	75	0.41	182	95
VR01003-300	3	7	75	0.44	220	115
VR01002-300	2	7	75	0.47	268	130
VR01001-300	1	19	100	0.55	353	145
VR011X0-300	1/0	19	100	0.59	429	170
VR012X0-300	2/0	19	100	0.64	525	195
VR013X0-300	3/0	19	100	0.69	643	225
VR014X0-300	4/0	19	100	0.76	790	260
VR01250-300	250	37	130	0.85	969	290
VR01350-300	350	37	130	0.96	1308	350
VR01500-300	500	37	130	1.11	1807	430
VR01600-300	600	61	145	1.21	2172	475
VR01750-300	750	61	145	1.32	2668	535

Notes:

<sup>1</sup> 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.

<sup>2</sup> Ampacity shown for 14, 12 and 10 AWG conductors is limited by NEC section 240.4(D).



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