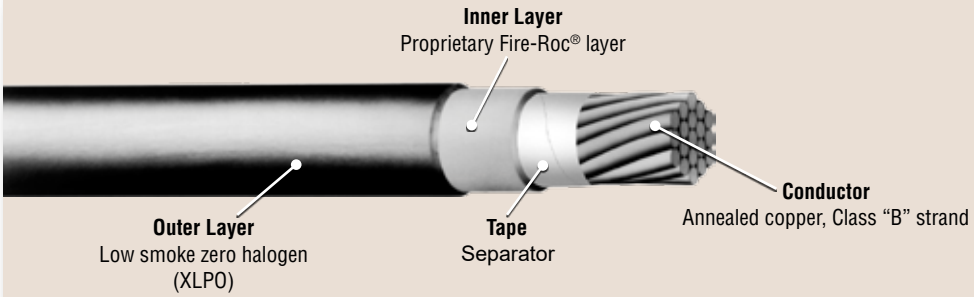
VITALink®

www.vitalinkcable.com

# VITALink® 300
## Type RHW-2
## 2 Hour Fire Rated Power Cable




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

## 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

## 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:** Bare Copper Class "B" stranding per ASTM B3

**Separator Tape:** Helically applied

**Insulation:** Two layer construction

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

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

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A Berkshire Hathaway Company

| Product Code | Conductor Size (AWG Kcmil) | Number of Strands | Insulation Thickness (mils) | Approx. Diameter (inches) | Approx. Weight (lbs/kft) | Ampacity[1] (amperes) |
|---|---|---|---|---|---|---|
| VR01014-300 | 14 | 7 | 45 | 0.19 | 29 | 15[2] |
| VR01012-300 | 12 | 7 | 45 | 0.21 | 39 | 20[2] |
| VR01010-300 | 10 | 7 | 45 | 0.24 | 54 | 30[2] |
| 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 | 125 | 0.64 | 429 | 170 |
| VR012X0-300 | 2/0 | 19 | 125 | 0.69 | 525 | 195 |
| VR013X0-300 | 3/0 | 19 | 125 | 0.74 | 643 | 225 |
| VR014X0-300 | 4/0 | 19 | 125 | 0.79 | 790 | 260 |
| VR01250-300 | 250 | 37 | 160 | 0.92 | 969 | 290 |
| VR01350-300 | 350 | 37 | 160 | 1.02 | 1308 | 350 |
| VR01500-300 | 500 | 37 | 160 | 1.11 | 1807 | 430 |
| VR01600-300 | 600 | 61 | 175 | 1.26 | 2245 | 475 |
| VR01750-300 | 750 | 61 | 175 | 1.36 | 2750 | 535 |

Notes:

[1] 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.

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

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