



Features

- 1 hour fire resistive rating at 480V
- Moisture resistant
- Approved with Champion Flame Shield Phenolic Conduit Type XW
- Low Smoke, Zero Halogen design
- Flexible for installation ease
- Easy stripability
- Available in long lengths
- No special tools needed for termination
- Easily pulled (low friction jacket)
- System features a UL 2196-listed splice
- Approved with Polywater LZ pulling lubricant

Scope

VITALink® 300 is an RHW-2/RW90 cable, which offers superior fire endurance capabilities along with the well-established benefits and features associated with NEC and CE Code Type RHW-2/RW90 cable designs. It is designed to meet the circuit integrity requirements for emergency lighting, communication, and ventilation applications with respect to NFPA 130.

Performance Standards

- Listed to latest revision of UL 2196/ULC S-139 for 1 hour with Champion Flame Shield Phenolic Conduit Type XW
- UL/cUL Listed, NEC Type RHW-2/RW90 in accordance with UL Standard No. 44
- UL Listed FT4/IEEE 1202 Vertical Flame test
- UL Listed -ST1 per UL 44 and UL 1685 (FT4 Method), meeting smoke and flame requirements of NFPA 130 and NFPA 502
- UL Listed 90°C for both wet and dry locations
- UL Listed as -40°C
- UL Listed as Gasoline and Oil Resistant Type II
- UL Listed as Sunlight Resistant
- Low toxicity index per NES 713

Applications

- Exceeds NFPA 130 fire resistive cable requirements

Construction

Conductor: Bare Copper, Class “B” stranding per ASTM B3

Tape: Helically applied fire barrier

Insulation: Two layer composite construction

Inner Layer: Black Proprietary Low Smoke, Zero Halogen thermoset Fire-Roc®

Outer Layer: Black Low Smoke, Zero Halogen Crosslinked Polyolefin (LSZH XLPO) (Colors available upon request)

Product Code	Conductor Size (AWG/Kcmil)	Number of Strands	Insulation Thickness (mils)	Approx. Diameter (inches)	Approx. Weight (lbs/ft)	Ampacity ¹ (amperes)
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

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 12 and 10 AWG conductors is limited by NEC section 240.4(D).



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