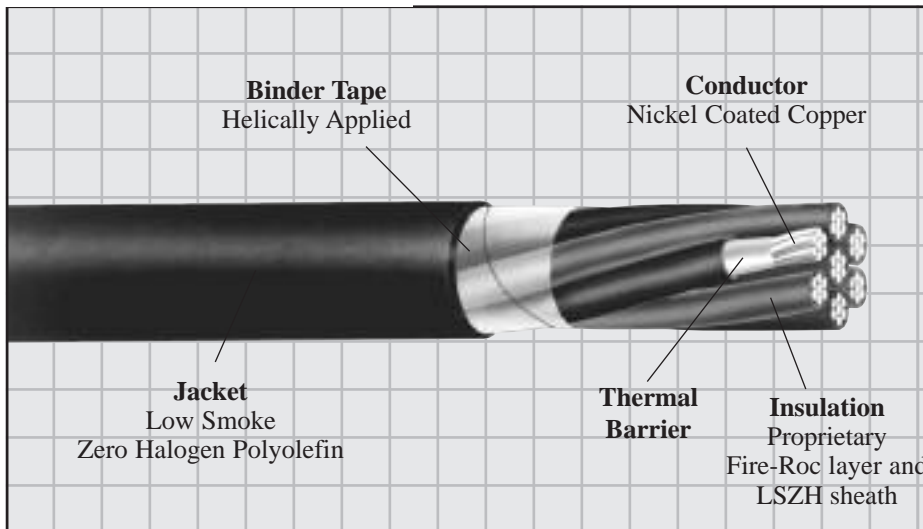


# VITALink® 2000

## Fire Resistant Control/Power Cable



### VITALink® 2000 Fire Resistant Control/Power Cable

90°C / 75°C\*, 600 Volt  
 NEC Type TC-ER  
 CEC Type RW75/R90, CIC & TC

UL Listed  
 CSA Listed  
 CUL Listed

RSS-5-157

### Scope

VITALink® 2000 is a unique cable which offers superior fire endurance capabilities along with the well-established benefits and features associated with NEC Type TC cable designs. This cable is suitable for use in circuits where the maintenance of circuit integrity is an absolute

necessity to allow the operation of systems or equipment vital to life or safety under emergency conditions. It has applications in the petroleum industry for MOVs, fire pumps and other critical functions where fire survivability is essential.

### Features

- Fire Rated
- Moisture Resistant
- Installs in steel raceway 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°C wet per NEC

### Performance Standards

- Passes API 2218 flame test per UL 1709 oven test at 2000°F for 60 minutes with 65,000 BTU/sq.ft./hour thermal flux
- Insulation resistance is in excess of 10,000 Ohms in 60 minute 2000°F flame test per MIL-W-25038 (Shake & Bake)
- UL Listed, NEC Type TC in accordance with UL Standard No. 1277
- Approved and marked with the "Sunlight Resistant" designation
- Singles UL Type RHW suitable for wet locations
- Approved and marked with "FT-4" flame test designation
- CSA Listed RW75/R90 in accordance with CSA C22.2 No. 38/UL44
- CUL Listed as CEC Type CIC in accordance with CSA Standard C22.2 No. 239
- CUL Listed as CEC Type TC in accordance with CSA Standard C22.2 No. 230
- ABS Recognized for marine ship-board
- -ER meets the crush and impact requirement of Type MC cable and can be used per NEC 336.10 (7) for extended runs

### Construction

**Conductor:**  
Stranded, nickel coated copper

**Thermal Barrier:**  
Inorganic layer

**Insulation System:**  
Proprietary Low Smoke Zero Halogen thermoset Fire-Roc layer and thermoset low smoke zero halogen covering

**Circuit Identification:**  
ICEA Method 3: Black single conductors with printed numbers and color name, following K-2 sequence

**Binder Tape:**  
Helically applied

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

# VITALink® 2000

## Fire Resistant Control/Power Cable

90°C / 75°C\*, 600 Volt

UL Listed, NEC Type TC-ER

CSA Listed

CEC Type RW75/R90, CIC & TC

CUL Listed

RSS-5-157



**Size: 14 AWG** 19/.0142" nickel-coated copper, thermal barrier layer, .045" low-smoke zero-halogen thermoset Fire-Roc insulation and .015" black low-smoke zero-halogen thermoset conductor jacket (nominal diameter 0.248", 6.3 mm)

Product Code	Number of Conductors	Jacket Thickness		Nominal Diameter		Net Weight		Minimum Bending Radii <sup>1</sup>		Ampacity <sup>2</sup>
		(mils)	(mm)	(inch)	(mm)	(Lbs. per 1000 ft)	(kg/m)	(inch)	(cm)	
C66-0030	3	60	1.52	0.67	17.0	195	0.290	2.75	7.0	12
C66-0040	4	60	1.52	0.73	18.6	242	0.360	3.00	7.6	12
C66-0070	7	80	2.03	0.92	23.3	416	0.619	3.75	9.5	10
C66-0120	12	80	2.03	1.21	30.7	660	0.983	5.00	12.7	8

**Size: 12 AWG** 19/.0179" nickel-coated copper, thermal barrier layer, .045" low-smoke zero-halogen thermoset Fire-Roc insulation and .015" black low-smoke zero-halogen thermoset conductor jacket (nominal diameter 0.265", 6.7 mm)

Product Code	Number of Conductors	Jacket Thickness		Nominal Diameter		Net Weight		Minimum Bending Radii <sup>1</sup>		Ampacity <sup>2</sup>
		(mils)	(mm)	(inch)	(mm)	(Lbs. per 1000 ft)	(kg/m)	(inch)	(cm)	
C66-1020	2	60	1.52	0.66	16.8	175	0.260	2.75	7.0	17
C66-1030	3	60	1.52	0.70	17.9	228	0.339	3.00	7.6	17
C66-1040	4	60	1.52	0.77	19.6	350	0.424	3.25	8.3	14
C66-1070	7	80	2.03	0.97	24.6	491	0.730	4.00	10.2	12

**Size: 10 AWG** 49/.0142" nickel-coated copper, thermal barrier layer, .045" low-smoke zero-halogen thermoset Fire-Roc insulation and .015" black low-smoke zero-halogen thermoset conductor jacket (nominal diameter 0.303", 7.7 mm)

Product Code	Number of Conductors	Jacket Thickness		Nominal Diameter		Net Weight		Minimum Bending Radii <sup>1</sup>		Ampacity <sup>2</sup>
		(mils)	(mm)	(inch)	(mm)	(Lbs. per 1000 ft)	(kg/m)	(inch)	(cm)	
C66-2020	2	60	1.52	0.74	18.7	224	0.333	3.00	7.6	24
C66-2030	3	60	1.52	0.78	19.9	297	0.442	3.25	8.3	24
C66-2040	4	80	2.03	0.90	23.0	413	0.614	3.75	9.5	20
C66-2070	7	80	2.03	1.08	27.5	651	0.969	4.50	11.4	17

Note 1: Minimum Bending Radii are instructive for permanent training.

Note 2: Ampacity based on Table 310.16 of the National Electrical Code for 75°C conductor temperature and 30°C ambient, adjusted for NCC conductors and with adjustment factors from Table 310.15(b)(2)(a) for not more than three current carrying conductors plus additional derating.

Rev. 3 (1-22-07)