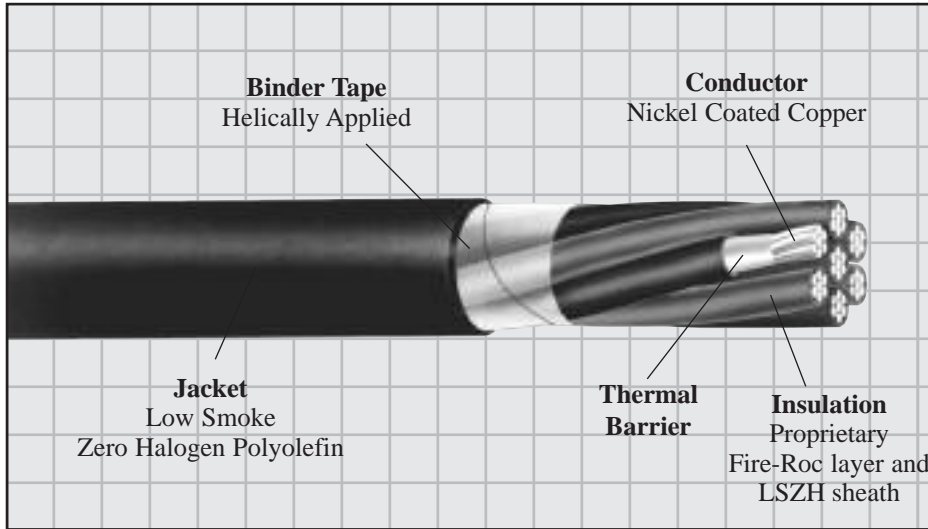


VITALink® 2000

Fire Resistant Power Cable



VITALink® 2000 Fire Resistant 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)

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Fire Resistive Power Cable

90°C / 75°C*, 600 Volt

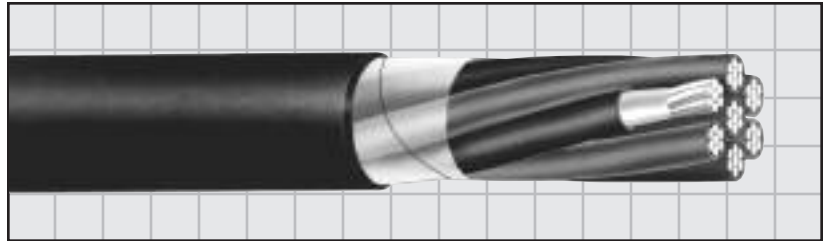
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CEC Type RW75/R90, CIC & TC

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RSS-5-157



Three Conductors

Product Code	Conductor Size AWG	Jacket Thickness		Nominal Diameter		Net Weight		Minimum Bending Radii ¹		Ampacity ²
		(inch)	(mm)	(inch)	(mm)	(Lbs. per 1000 ft)	(kg/m)	(inch)	(cm)	
P48-0083	8	0.080	2.03	1.03	26.2	550	0.818	1.75	4.4	42
P48-0063	6	0.080	2.03	1.11	28.2	688	1.024	1.75	4.4	54
P48-0043	4	0.080	2.03	1.24	31.5	915	1.362	2.00	5.1	71
P48-0023	2	0.080	2.03	1.37	34.8	1,223	1.820	2.25	5.7	96

Four Conductors

Product Code	Conductor Size AWG	Jacket Thickness		Nominal Diameter		Net Weight		Minimum Bending Radii ¹		Ampacity ²
		(inch)	(mm)	(inch)	(mm)	(Lbs. per 1000 ft)	(kg/m)	(inch)	(cm)	
P48-0084	8	0.080	2.03	1.13	28.7	665	0.990	1.75	4.4	33
P48-0064	6	0.080	2.03	1.22	31.0	843	1.254	1.75	4.4	43
P48-0044	4	0.080	2.03	1.37	34.8	1,129	1.680	2.00	5.1	57
P48-0024	2	0.080	2.03	1.52	38.6	1,526	2.270	2.25	5.7	77

Single Conductors

Conductor Size AWG	Conductor Stranding	Insulation Thickness		Cdr. Jkt. Thickness		Nominal Diameter	
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)
8	133/.0113"	0.060	1.52	0.030	0.76	0.40	10.1
6	133/.0142"	0.060	1.52	0.030	0.76	0.43	11.0
4	133/.0179"	0.060	1.52	0.030	0.76	0.50	12.6
2	665/.010"	0.060	1.52	0.030	0.76	0.56	14.1

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 more than three current carrying conductors plus additional derating.