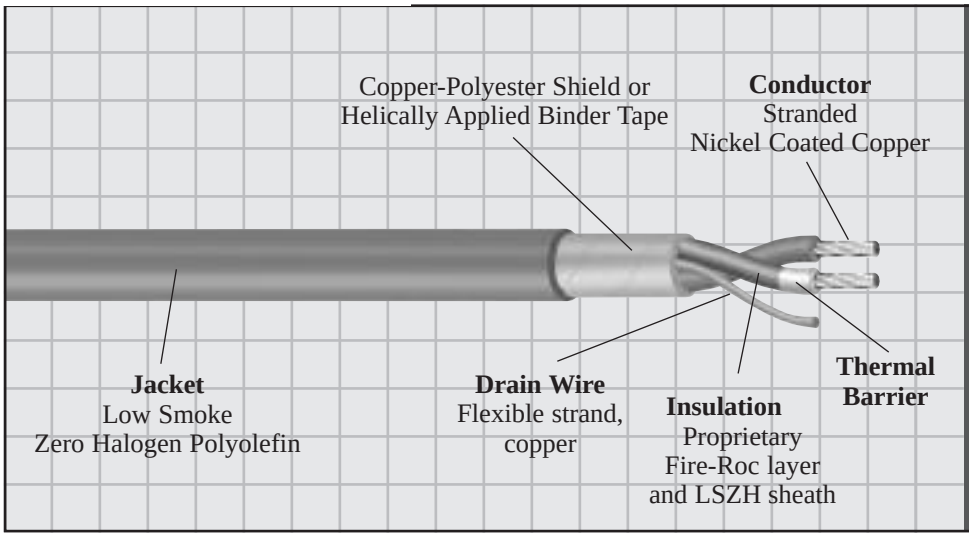
ROCKBESTOS SURPRENANT CABLE CORPORATION
ENGINEERED WIRE AND CABLE

VITALink® 2000

Fire Resistive Instrumentation Cable



VITALink® 2000
Fire Resistive Instrumentation Cable

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

UL 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 MOV instrumentation, communication systems 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 RFFH-3
- Singles wet rated per UL44/CSA 22.2 No. 38 Section 5.4 Long Term Insulation Resistance in Water Test
- Approved and marked with "FT-4" flame test designation
- 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 shipboard
- -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 insulation with printed numbers and color names - black and white for pairs - black, white and red for triads. In addition, legs other than black have colored stripe in the named color.

Shield and Binder Tape
As required, shields are copper polyester laminated tape with flexibly stranded copper drain wire. Individual pairs or triads may be shielded or unshielded. Cables may have overall shields if required, or utilize overall binder tape.

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

Rev. 4 (1-22-07)

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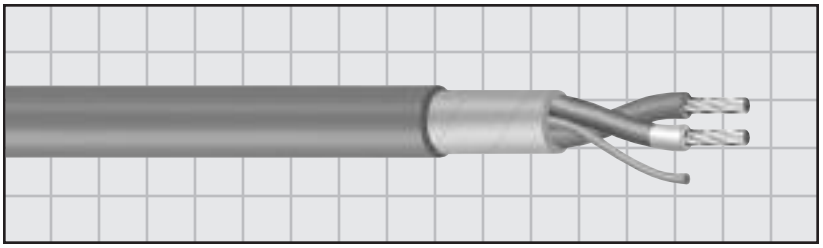

Size: 16 AWG 19/.0113" nickel-coated copper. thermal barrier layer, .030" low-smoke zero-halogen thermoset Fire-Roc insulation and .015" black low-smoke zero-halogen thermoset conductor jacket (nominal diameter 0.190", 4.8 mm)

Product Code	Number of Pairs	Shields	Jacket Thickness (mils)	Jacket Thickness (mm)	Nominal Diameter (inch)	Nominal Diameter (mm)	Net Weight (Lbs. per 1000 ft)	Net Weight (kg/m)	Minimum Bending Radii [1] (inch)	Minimum Bending Radii [1] (cm)	Ampacity [2]
150-0020	1	NS	45	1.14	0.48	12.2	90	0.134	2.00	5.1	10
150-0021	1	SP	45	1.14	0.48	12.2	99	0.147	2.00	5.1	10
150-0024	2	SP/OS	80	2.03	0.88	22.4	272	0.405	3.75	9.5	8
150-0044	4	SP/OS	80	2.03	1.03	26.2	418	0.622	4.25	10.8	7
150-0084	8	SP/OS	80	2.03	1.34	34.0	716	1.065	5.50	14.0	5
150-0124	12	SP/OS	80	2.03	1.64	41.7	1012	1.506	6.75	17.1	3
150-0244	24	SP/OS	110	2.79	2.36	59.9	2001	2.977	9.50	24.1	2
150-0504	50	SP/OS	140	3.56	3.27	83.1	3981	5.924	13.25	33.7	2

Product Code	Number of Triads	Shields	Jacket Thickness (mils)	Jacket Thickness (mm)	Nominal Diameter (inch)	Nominal Diameter (mm)	Net Weight (Lbs. per 1000 ft)	Net Weight (kg/m)	Minimum Bending Radii [1] (inch)	Minimum Bending Radii [1] (cm)	Ampacity [2]
150-0030	1	NS	45	1.14	0.51	13.0	116	0.173	2.25	6.7	10
150-0031	1	ST	45	1.14	0.51	13.0	125	0.186	2.25	5.7	10

Shields: NS = not shielded. SP = shielded pair. ST = shielded triad. OS = overall shield.

Drain wires are 18 AWG 16/.010" tinned copper.

Maximum direct current resistance of each leg of one pair or triad cable is 6.39 Ohms/1000 feet at 20°C.

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.

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