Features

- Replaces expensive fireproofing methods
- Low smoke, Halogen free design
- Installation ease of Type MC cables
- Utilizes commercially available MC connectors
- Termination simplicity
- Requires conventional stripping tools
- Extruded “moisture resistant” insulation
- Wide variety of sizes & configurations
- Available in long lengths
- Welded armor forms an impervious barrier
- Armor is impact & crush resistant
- Armor sheath capacity exceeds the UL requirement for equipment ground

Performance Standards

- Third party qualification for 30 minutes at 2000°F Rapid Rise test witnessed by UL, Modified IEC 60331-11 with side bricks and 0.3A load (light bulbs)
- 90°C Wet and Dry per NEC
- Passes IEC 60331-11 flame test modified to 3 hours @ 2000°F
- UL Listed, NEC Type MC in accordance with UL Standard No. 1569 and MC-HL per UL Standard No. 2225
- UL Listed as -40°C
- Weather and sunlight resistant
- UL Listed for CT (Cable Tray) use
- UL Listed for FT4 flame test designation
- UL Listed as Type CWCMC to IEEE as IEEE 1580 and UL 1309/CSA C22.2 No. 245 as marine shipboard cable
- cUL listed as CEC type ACIC IAW CSA 22.2 No. 239

Construction

- Conductor: Stranded, Nickel Coated Copper
- 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; Black and White for pairs; Black, White and Red for triads
- Pair/Triad: Copper/mylar tape with drain/ground
- Binder: Helically applied
- Filler: As Required
- Armor: Continuously welded and corrugated aluminum
- Outer Jacket: Flame Retardant Polyvinyl Chloride (PVC) or optional Low Smoke Zero Halogen (LSZH) polyolefin

Scope

VITALink® MC/NCC is a unique cable which offers superior fire endurance capabilities along with the well-established benefits and features associated with NEC Type MC-HL 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’s, fire pumps and other critical functions where fire survivability is essential.
**VITALink® MC/NCC**  
**Fire Resistive Instrumentation Cable**

**Size:** 16 AWG 19/0.0113" nickel-coated copper, .030" low-smoke zero-halogen thermoset Fire-Roc® insulation, .015” black low-smoke zero-halogen thermoset conductor jacket (nom. diameter 0.150", 3.8 mm)

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<tr>
<th>Product Code</th>
<th>Number of Pairs</th>
<th>Shields</th>
<th>Core Diameter (in)</th>
<th>Armor Diameter (in)</th>
<th>Nominal Diameter (in)</th>
<th>Net Weight (lbs. per 1000 ft.)</th>
<th>Minimum Bending Radii1 (in)</th>
<th>Ampacity2 (see note)</th>
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<th>Armor Diameter (in)</th>
<th>Nominal Diameter (in)</th>
<th>Net Weight (lbs. per 1000 ft.)</th>
<th>Minimum Bending Radii1 (in)</th>
<th>Ampacity2 (see note)</th>
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</table>

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

Drain wires are 18 AWG 16/0.010" Bare copper.

Maximum direct current resistance of each leg of one pair or triad cable is 6.51 Ohms / 1000 feet at 20°C.

1 Minimum Bending Radii are instructive for permanent training.

2 Ampacity based on API 14FZ for nickel-coated copper conductor (27% nickel), 75°C, 600V.