



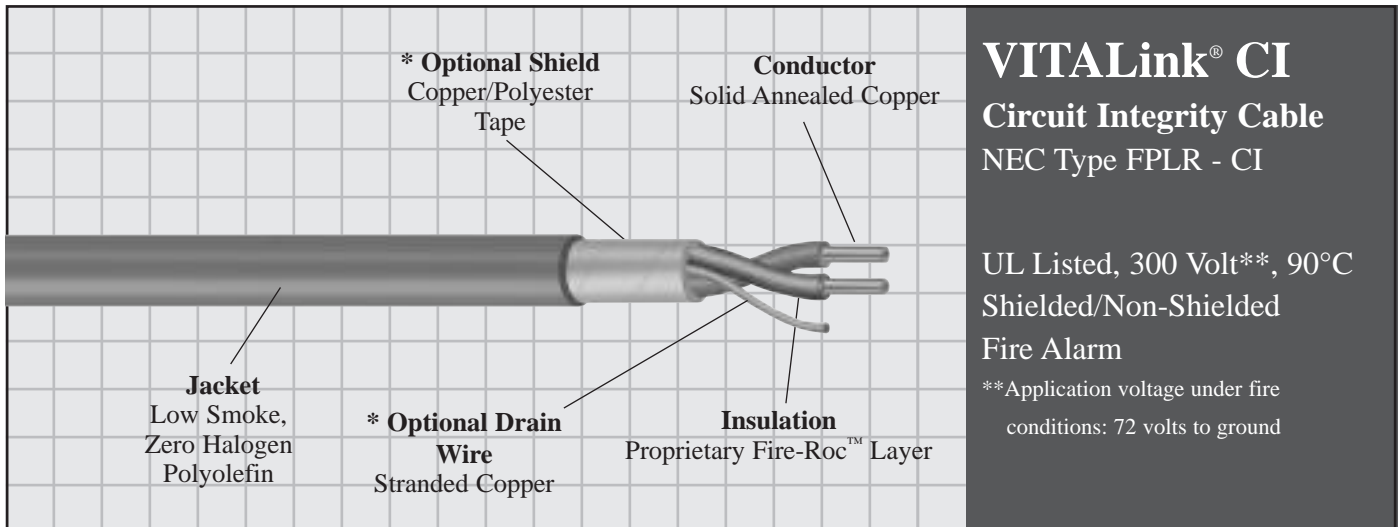
**Innovative  
Engineered Cable  
Solutions**

A Marmon Wire & Cable  
Berkshire Hathaway Company



# VITALink® CI

## 2 Hour Fire Rated Power Limited Fire Alarm Cable



### Scope

VITALink® CI is a UL Listed Type FPLR-CI fire alarm cable intended for use in Power Limited Fire Alarm Circuits. When installed in accordance with standard code practices, it meets the requirements for “*Fire Alarm Circuit Integrity (CI) Cables*” as defined in Article 760 of the National Electrical Code (NFPA 70). It has established a minimum

2 hour fire resistance rating by passing the applicable requirements of UL Test Standard 2196, “Standard for Tests of Fire Resistive Cables”. It was specifically developed to meet the circuit “*survivability*” requirements of the National Fire Alarm and Signaling Code (NFPA 72).

### Features

- 2-hour fire-rated as CI cable when installed in free air or in steel conduit per (FHIT) System 35
- System 35 includes:
  - Fire rated splices
  - Fire rated vertical grips
  - Pulling lubricants
  - 6 feet spacing between supports
- When installed in conduit it meets the requirements of a plenum system
- Low smoke, Halogen free design
- Rated for dry and wet locations
- Riser rated
- Sequential footage marking on the jacket
- Easily pulled (low friction jacket)
- Easy to strip
- Available in long lengths

### Performance Standards

- UL Classified, 2-hour fire resistant cable, tested to UL 2196, as CI cable when installed in free air or System 35 when installed in steel conduit
- UL listed as Type FPLR-CI per UL 1424 including the following optional markings
  - Sunlight Resistant
  - Wet Location
  - FT - 4/IEEE 1202
  - LS (per UL 1685)
  - Cable rated for 90° C
- UL listed as Type PLTC and CL3R per UL 13
- Cables are "Riser" rated per UL 1666
- Insulation rating
  - 300 volts per NEC
  - 72 volts phase/ground or 125 vol phase/phase under fire conditions

### Applications

- Fire Alarm systems
- Voice evacuation systems
- Fireman’s telephone systems
- Area of Refuge Communication systems

### Construction

**Conductor:** Specialized copper engineered to minimize embrittlement due to fire exposure

**Shield:** Copper/Polyester Tape

**Drain Wire:** Stranded Copper

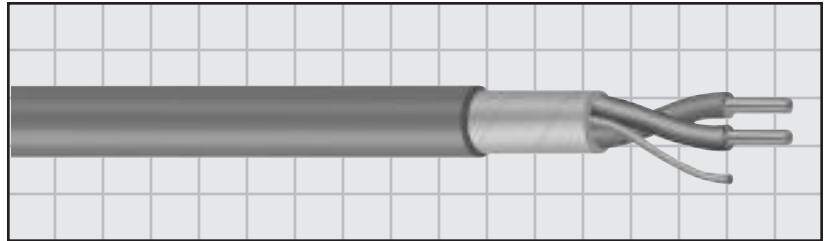
**Insulation:** Proprietary Low Smoke Zero Halogen thermoset Fire-Roc layer

**Circuit Identification:** Red and Black

**Jacket:** Red Flame Retardant Low Smoke, Zero Halogen Polyolefin)

\* Also available as non-shielded

**VITALink® CI**  
**Circuit Integrity Cable**  
 NEC Type FPLR-CI  
 UL Listed, 300 Volt, 90°C  
 Shielded/Non-Shielded  
 Fire Alarm



## Shielded

Product Code	Number of Conductors	AWG	Insulation (Mils)	Jacket (Mils)	Cable Dia (in)	Weight (lbs/ft)	Capacitance (pF/ft)
VC02018-100	2	18	35	30	.29	49	26
VC02016-100	2	16	35	30	.31	58	30
VC02014-100	2	14	35	30	.34	74	36
VC02012-100	2	12	35	30	.37	100	43

## Un-Shielded

Product Code	Number of Conductors	AWG	Insulation (Mils)	Jacket (Mils)	Cable Dia (in)	Weight (lbs/ft)	Capacitance (pF/ft)
VC02018-200	2	18	35	30	.29	43	15
VC02016-200	2	16	35	30	.31	52	17
VC02014-200	2	14	35	30	.34	65	19
VC02012-200	2	12	35	30	.37	89	21

Consult factory for other sizes and configurations, such as multi-pairs (SP-OS or P-OS)