

*UL Listed*

# 2-Hour Fire Resistive (Circuit Integrity)

## VITALink® FPLR Cable

*Comtran Cable LLC*

Design Specification  
**Part Number: 35787**

**DESCRIPTION:** 14AWG-2Cdr. Shielded 2-Hour Fire Rated VITALink® UL Listed LSZH FPLR cable (300Volt/90°)  
 ANSI/UL 2196 Certified, FHIT System 40 and UL Fire Resistance Directory R27557

**VITALink® Cable** is designed to support Life and Fire Safety. This cable offers “survivability” for 2-Hours in harsh environments while being fully operational in order for safe evacuation of building occupants. It has achieved riser rating (FPLR) and re-certified under the new UL 2196 guidelines for 2-hour fire resistive cables for use in FHIT system 40.

**Construction:**

- Conductors: 14 AWG Solid Cu. specially engineered to minimize embrittlement due to fire exposure
- Insulation: Proprietary Low Smoke, Zero Halogen Thermoset Fire-Roc™ Layer
- Core Assembly: Color Coded Conductors:  
Black and Red
- Shield: Copper/polyester tape applied over core
- Drain Wire: Stranded bare copper
- Twists per Foot: (Nominal 2.5)
- Jacket: Red Low Smoke, Zero Halogen Polyolefin  
(Sequential Footage Marker Provided every two feet)



Part No.	No. of Cdrs.	AWG	Nominal Cable Diameter (inches)	Nominal Weight (lbs./1000Feet)	Nominal Capacitance (pF/ft.)
35787	2	14	.345	76	36

**Certifications:**

- NEC type FPLR for use in Electrical Circuit Integrity System FHIT.40
- 14AWG 2-Conductor vertical straight-through w/couplings in 1-1/4-inch EMT. 60-inch maximum support spacing (CIC)
- 14AWG 2-Conductor horizontal straight-through w/couplings in 1-1/4-inch EMT. 60-inch maximum support spacing (CIC)

**Hardware Certified:**

- 3/4-inch, 1-inch, and 1-1/4-inch EMT Conduit “E-Z Pull” – **Allied Tube & Conduit Co.**
- 3/4-inch, 1-inch, and 1-1/4-inch Steel Compression Couplings – **Thomas & Betts**  
(¾ PN 5220, 1 PN 5320 and 1 ¼ PN 5420)
- 3/4-inch, 1-inch, and 1-1/4-inch Strapping – **Thomas & Betts**  
(¾ PN 700-3/4-STR, 1 PN 700-1-STR and 1 ¼ PN 700-1-1/4-STR)

**Pulling Lubricant:** Polywater LZ - Polywater Corporation

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**Compliance:**

- UL 1424 Listed FPLR for Power-Limited Fire Alarm Circuits; 300V / 90°C Classified
- UL Certified to ANSI/UL 2196 2-Hour fire rating for use in FHIT system 40. **(See UL Fire Resistance Directory R27557)**
- Fire certified for power-limited system use at 50V phase-to-phase utilization voltage
- When installing cable(s) in vertical runs, the maximum distance of cable within EMT shall be 33 ft. between terminating points

**2-Hour VITALink® Fire rated cabling supports critical systems such as:**

- (EVAC) Emergency Voice-Alarm Communication Smoke and Fire Alarm Systems
- Fireman’s Telephone and Area of Refuge Communication systems
- Visible Notification Appliances

**Common Applications:**

- Manufacturing, Commercial and Industrial locations
- Colleges, High-rise Buildings, Hotels, Airports and Stadiums
- Health Care Facilities
- Tunnels and Subways for Emergency Communications

**Performance Standards:**

- Certified to ANSI/UL 2196 (Tests for Fire Resistive Cables) per UL FHJR.R27557
- UL listed Type FPLR per UL 1424
- UL Listed Type CMR per UL 444
- UL Listed Type CL3R per UL 13
- Riser rated per UL 1666
- 300 volts rated per NEC
- Sunlight Resistant and Wet Location Rated
- Low Smoke, Zero Halogen
- California State Fire Marshal Approved

**Notes:**

- Refer to UL Electrical Circuit Integrity System FHIT.40 for installation requirements
- Refer to FHJR.R27557 Fire-Resistive Cable
- VITALink® Brand Type FPLR/CL3R/CMR for use in System No. FHIT.40 when installed in accordance with the manufacturer's installation instructions dated May 2014
- Authorities having Jurisdiction should be consulted before installation



For more information, please contact Comtran Customer Service:

Telephone: 508-399-7004

Email: sales@comtrancorp.com

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*Comtran Cable LLC had made every effort to ensure the technical accuracy of the data and information contained in this release. Technical data, certifications, specifications, industry applications, weights, dimensions, packaging and part numbers detailed within are subject to change without notice. Comtran Cable LLC is not responsible for any typographical errors or inaccuracies that may occur.*

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