

Two Hour Fire-Rated Single Pair Cable

RP66010001, RP66010002



APPLICATIONS

- Manufacturing, commercial, and industrial locations (colleges, hotels, airports, stadiums, and hospitals)
- Tunnels and subways for emergency communications
- Emergency Voice-Alarm Communication Smoke and Fire Alarm Systems (EVAC)
- Fireman's telephone and Area of Refuge Communication Systems
- Emergency lighting

NOTES

- Refer to R27557 Fire-Resistive Cable (UL)
- Brand Type FPLR-CI-LS, CMR-CI-LS & PLTC-CI-LS for use in System No. FHIT.40A and FHITC.40A when installed in accordance with the manufacturer's installation instructions dated May 2017 for use as CIC cable
- Rated for both horizontal and vertical runs
- Tested to 1,850° F
- For use in wet locations
- Pulling Lubricant: Polywater Type LZ

Code Compliance:

- For plenum environments, install in EMT conduit per FHIT.40A (this meets all the requirements per the NEC)
- Riser rated
- NEC type FPLR-CI-LS, CMR-CI-LS & PLTC-CI-LS for use in Electrical Circuit Integrity System FHIT 40A
- c(UL) listed CM (#E111271)
- CEC and CSA type FAS 90 with Hose Stream Test
- UL Certified to ANSI/UL 2196 2 hour fire-rating for use in FHIT system 40A (UL Fire-Resistance Directory R27557)
- CAN/ULC-S139 Certified with Hose Stream Test for use in FHITC system 40A
- UL 1424 Listed FPLR-CI-LS for Power-Limited Fire Alarm Cables; 300V / 105°C
- UL 13 Listed PLTC-CI-LS for Power-Limited Circuit Cables; 300V / 105°C
- UL 444 Listed CMR-CI-LS for Communication Cable; 300V / 105°C
- NYC Electrical Advisory Board Approval # 54502, April 2017
- Fire certified for power-limited system use at 72V phase-to-phase utilization voltage
- Sunlight resistant
- For use in wet locations

Construction:

- Conductors: 18 AWG Solid Copper specially engineered to minimize embrittlement due to fire exposure
- Tape: Flame Retardant Tape
- Insulation: Low Smoke, Zero Halogen Thermoset Fire-Roc™
- Core Assembly: Color Coded Insulated Conductors of Red and Black
- Jacket: Red, Low Smoke, Zero Halogen Polyolefin (Sequential Footage Marker Provided Every 2 Feet)

Part #'s	Length	# of pairs	AWG	Outer Diameter	Weight
RP66010001	500'	Single	18 2-Conductor	0.309"	28 lbs.
RP66010002	1,000'	Single	18 2-Conductor	0.309"	58 lbs.

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CIRCUIT-IN-CONDUIT(CIC)

Hardware Certified for use in Systems FHIT .40A and FHITC .40A:

- 1/2-inch, 3/4-inch, 1-inch, 1-1/4, 1-1/2-inch, and 2-inch EMT Conduit “E-Z Pull”– Allied Tube & Conduit Co. and Columbia-MBF
- 1/2-inch, 3/4-inch, 1-inch, 1-1/4, 1-1/2-inch, and 2-inch Steel Compression Couplings – RACO or Thomas & Betts Corp
- Wiegmann NEMA 1 Enclosure/Pull Box
- Amtec wire mesh support grips for vertical installation beyond 30 feet
- Supports per the Comtran Cable installation instructions dated August 2016

18 AWG-2 Conductor Shielded 2 Hour Fire-Rated UL Listed FPLR-CI-LS, CMR-CI-LS, PLTC-CI-LS, C(UL) CMR-LS & CSA FAS 90, cable ANSI/UL 2196 Certified for use in System FHIT.40A, CAN/ULC-S139 with Hose Stream for use in System FHITC.40A, UL Fire Resistance Directory R27557.

Cable is designed to support Life and Fire Safety. This cable offers “survivability” for 2 hours in harsh environments while being fully operational to allow for safe evacuation of building occupants. It has achieved FPLR-CI-LS, CM-CI-LS, & PLTC-CI-LS rating and has been certified under the new UL 2196 guidelines for 2 hour fire-resistive cables for use in system FHIT.40A and FHITC.40A. In addition, the cable is certified for use in Canada as a c(UL) CMR-LS listed cable and CEC Type FAS 90.

CIRCUIT INTEGRITY FREE AIR (CI)

- For use as CI cable when installed per the NEC and local code. For vertical installation lengths beyond 30 feet, cables are to be supported using a Stainless Steel wire mesh
- Authorities Having Jurisdiction should be consulted before installation

18 AWG-2 Conductor Shielded 2 Hour Fire-Rated UL Listed FPLR-CI-LS, CMR-CI-LS, PLTC-CI-LS, C(UL) CMR-LS & CSA FAS 90, cable ANSI/UL 2196 Certified.

Cable is designed to support Life and Fire Safety.

This cable offers “survivability” for 2 hours in harsh environments while being fully operational to allow for safe evacuation of building occupants. In addition, the cable is certified for use in Canada as a c(UL) CMR-LS listed cable and CEC Type FAS 90.

Installation Per NFPA Article 760 (Free Air Installations Only):

760.24(A) General

Fire alarm circuits shall be installed in a neat workmanlike manner. Cables and conductors installed exposed on the surface of ceiling and sidewalls shall be supported by the building structure in such a manner that the cable will not be damaged by normal building use. Such cables shall be supported by straps, staples, cable ties, hangers, or similar fittings designed and installed so as not to damage the cable. The installation shall also comply with 300.4(D).

760.24(B) Circuit Integrity (CI) Cable

Circuit Integrity (CI) cables shall be supported at a distance not exceeding 610mm (24in). Where located within 2.1m (7ft) of the floor, as covered in 760.53(A) (1) and 760.130(1), as applicable, the cable shall be fastened in an approved manner at intervals of not more than 450mm (18in.). Cable supports and fasteners shall be steel.

[760.5] Locate cables so they do not prevent the removal of ceiling panels for access to electrical equipment.

[760.6] Install equipment and cabling in a neat and workmanlike manner and support them. If you install cables on the exposed surface of ceilings and sidewalls, support them by the structural components of the building in a manner that prevents damage from normal use. You can secure the cables to structural components by straps, staples, hangers, or similar fittings designed and installed so as not to damage the cable. If you install cables next to framing members, you must protect them against physical damage from penetration by screws or nails by 1-1/4 in. separation from the face of the framing member or by a suitable metal plate per 300.4(D).