



DuraLife® FPLP-CI Unshielded UL Certified Fire Resistive Cables



UL 2196

Splice & Application Guide

**UL 2196 2 HR. CERTIFIED FPLP-CI FIRE RESISTIVE CABLES;
UNSHIELDED; 2-conductor
For use in Electrical Circuit Integrity Applications
NEC TYPE FPLP-CI for Fire Alarm Systems**



***Authorities Having Jurisdiction should
be consulted before installation.***



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DuraLife® FPLP-CI UNSHIELDED Cable Overview

Radix DuraLife® FPLP-CI fire resistive cables are designed to be flexible for easier installation. Patent pending.

Oxygen-free bare copper (OFHC)
conductors, solid and stranded

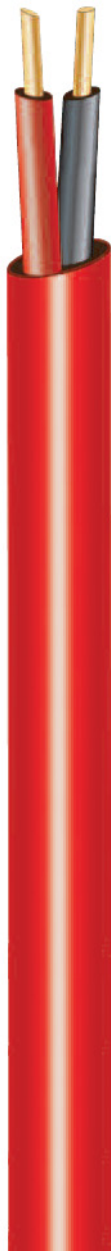
Low smoke PVC, with proprietary
fire insulation system; color-coded
black and red insulation on leads

Maximum cable voltage
rating: 300V

Low-smoke PVC outer jacket. Red
jacket standard.

PRINT LEGEND:

RADIX WIRE-II DURALIFE E241484
2/C # AWG FPLP-CI 300V 75C / (UL)
2196 - 2 HR. CLASSIFIED FIRE-RESISTIVE
CABLE 300V/75C



APPLICATIONS

Radix DuraLife® FPLP-CI fire resistive cables are constructed and approved for the following applications:

- Fire alarm circuit integrity (NEC Article 760).
- Emergency systems (NEC Articles 700 and 517).
- Plenum Rated
- Horizontal Splice Allowance
- Suitable for 2-hr. certified fire-resistive free-air applications.
- Fire-resistive certified for Power-Limited system use at 50V phase-to-phase utilization voltage.
- Meets fire alarm survivability circuit requirements in the National Fire Protection Code (NFPA 72) .
- UL 1424 Listed FPLP-CI for Power-Limited Fire Alarm Circuits; 300V/75°C classified.

COMPLIANCE

- UL 1424 Listed FPLP-CI for Power-Limited Fire Alarm Circuits; 300V/75°C classified.
- Meets fire alarm survivability circuit requirements in the National Fire Protection Code (NFPA 72).
- Meets NFPA 262 for plenum rating.





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SPLICE PROCEDURE FOR FPLP-CI UNSHIELDED FIRE ALARM CABLES (HORIZONTAL ONLY)

Required Materials:

- Standard 4S electrical utility box (steel). UL Listed. Raco 4" x 1.5"; Part No. 8190, 8191, 8192.
- Set screw utility box fittings (steel). Raco Part No. 2002 (.5")

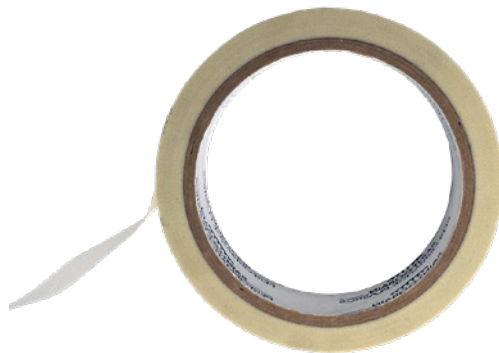
*Note - Box to be installed on vertical Unistrut™ as illustrated



- Non-insulated Connectors; Butt-Type Terminal
Part No.: HT-63 (3M) - 12 AWG
Part No.: HT-62 (3M) - 14 AWG, 16 AWG
Part No.: HT-61 (3M) - 18 AWG



- Silicone Tape: 1" Width; Self-Fusing. Item No. 70 (Scotch - 3M)



- Fiberglass Tape: 1" Width Item No. 2915-7 (Saint-Gobain)
- Firestop - Rectorseal Metacaulk Fire-Rated Putty. UL Certified.

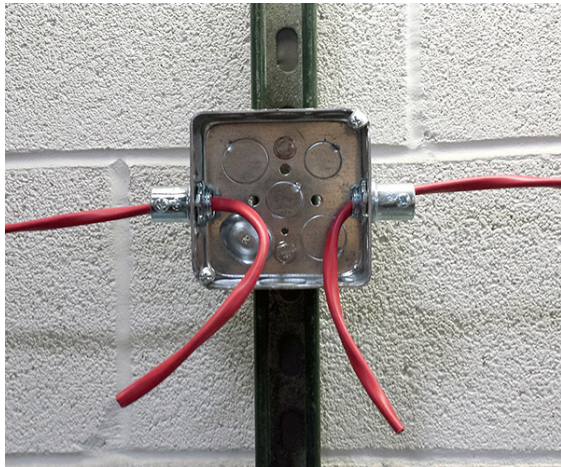


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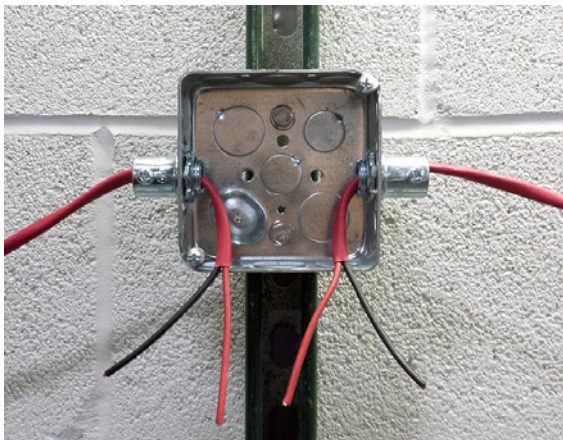
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SPLICE PROCEDURE FOR FPLP-CI UNSHIELDED FIRE ALARM CABLES (HORIZONTAL ONLY)

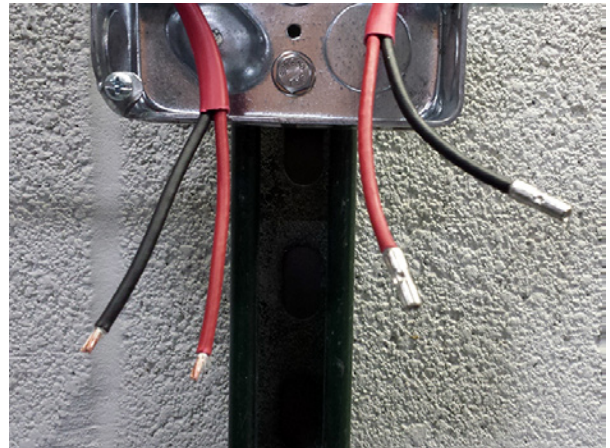
1. For horizontal splicing, pull cable through standard 4S electrical utility box side entrance as illustrated; allow approx. 24" of excess slack for splicing. Cut cable as shown.



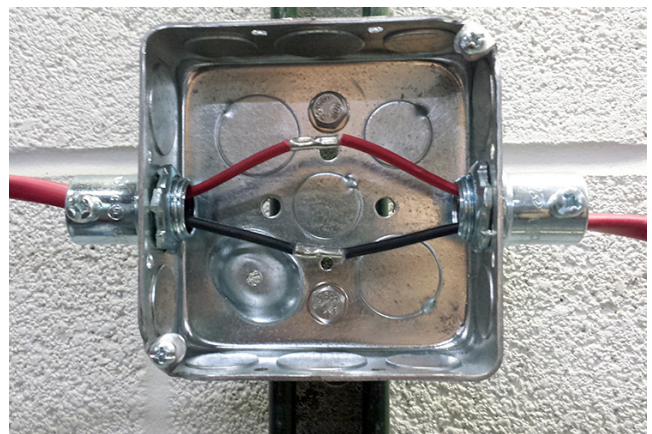
2. Carefully strip approximately 3" of outer jacket to expose insulated leads.



3. Carefully strip insulation from each lead approximately 1/4" to expose conductors. Apply butt terminal connectors. Use crimp tool to terminate connector sleeve to exposed conductors.



4. Complete the splice terminations as illustrated.



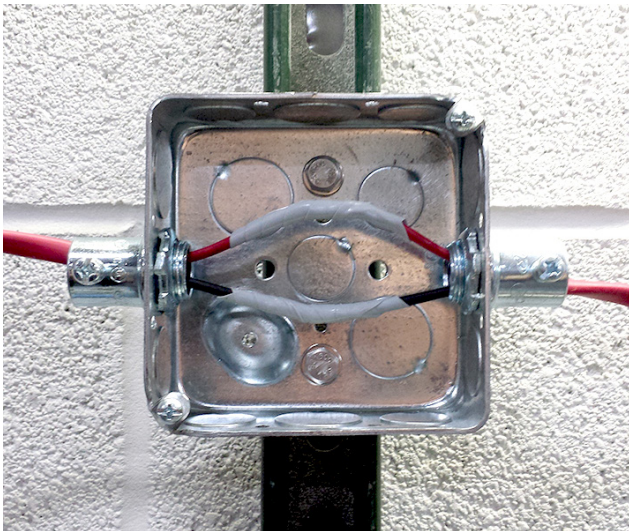


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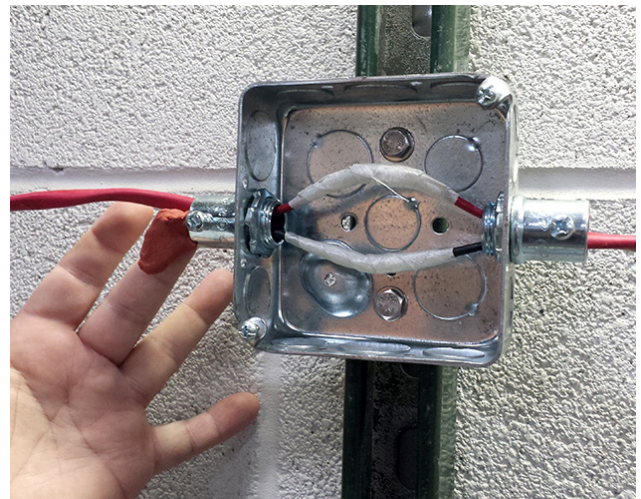
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5. Apply 2" of silicone tape to each termination using overlap to insure complete coverage of each connector and exposed conductor.



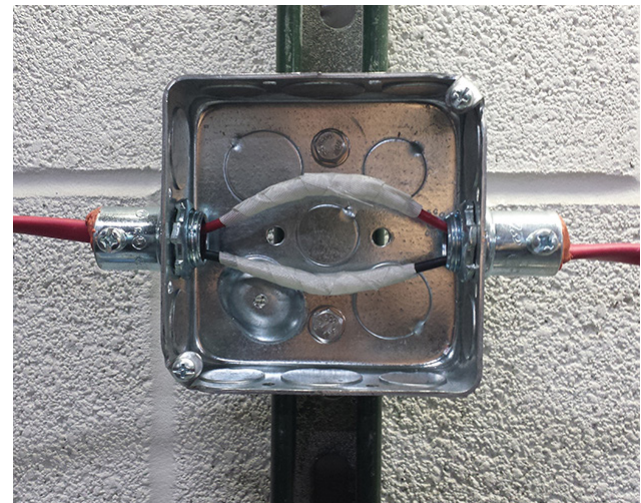
7. Reposition spliced leads to insure they are in line with cables as illustrated, and apply UL Certified fire-rated putty (firestop) to cable entrance and exit box fittings.



6. Apply 10" of fiberglass tape, using 1/2 lap overlay, to complete splice coverage of each lead termination in order to have two layers of tape coverage.



8. Splice procedure is complete. Utility box protective cover can now be applied.





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INSTALLATION OF FPLP-CI FIRE RESISTIVE CABLE

All cables designated as PLFA under Article 760, Part III in the National Electric Code, and rated as Type FPLP-CI as described under Sect. 760.61 (A) should be installed horizontally and vertically in accordance with the applicable Code requirements and instructions.

CABLE STORAGE & HANDLING

Radix DuraLife® FPLP-CI fire resistive cables are designed for durability. However, proper cable handling procedures must be followed to ensure the cable is not damaged prior to installation.

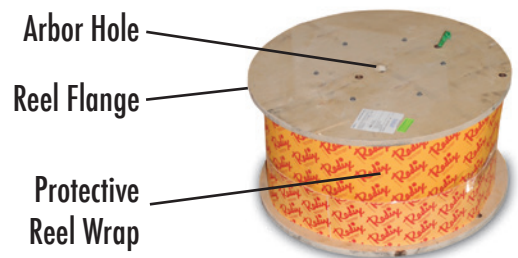
Protect from Damage

Choose a storage area that is cool, dry and protected from weather, construction activities, equipment collisions, falling objects, chemical spills, moving vehicles and other related hazards.

Packaging: Available on
1,000 ft. and 5,000 ft. reels.

Storage Procedure

Store 1000' reels on sides to avoid damaging reels. Store 5000' reels upright on flanges. Do not stack reels. Handle reels carefully to avoid physical damage to reel and cable. Store cables on a firm, dry surface or on planking in an area with good drainage.



Always store and transport reels as shown below.
To avoid reel damage, do not stack.

*If you have any questions
about the installation of
this cable, please contact:*



Radix Wire & Cable

26000 Lakeland Blvd. • Euclid, OH 44132 • Toll-Free: 877.722.5444 • Local: 216.731.9191

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