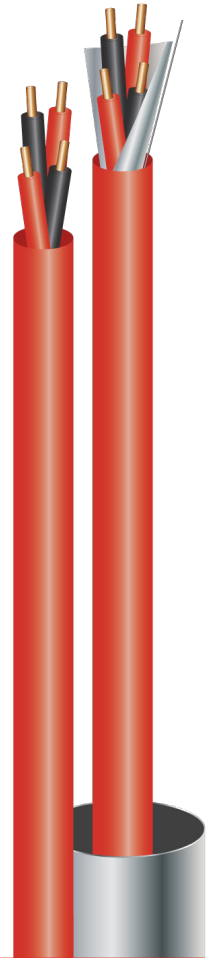


SPECIFICATIONS

DuraLife® II Dual Rated Ethernet Multi-Conductor FPLR Shielded/Unshielded Fire Resistive Cables

Certified to the harsh requirements of the UL 2196 Test for Fire Resistive Cables, the DuraLife II Dual Rated CIC /CI Multi-conductor Ethernet FPLR cables ensure two-hour operation of critical data and communication systems in the event of a fire. The dual rating design offers the most versatility in meeting code survivability requirements in both in-conduit and free air installation scenarios while meeting Cat-3 channel requirements per TIA-568.C.2.

Description: Dual Rated Multi-Conductor CI/CIC Cable. UL 2196 Certified/UL 1424 Listed FHIT System No. 28D. Low smoke, zero halogen design (LSZH) FHIT7 System No. 28D (CSA Listed)
Sizes Available: 18 AWG unshielded; 18 AWG shielded. 2/PR through 4/PR constructions



CONSTRUCTION:

- **Conductor:** Oxygen-free bare copper (OFHC), solid and/or stranded
- **Insulation:** Proprietary ceramifiable silicone rubber
- **Assembly:** Numerically printed black/red paired leads
- **Jacket:** Red low smoke/zero halogen FRPE (black jacket available/special order)

APPLICATIONS:

- Hospitals & Healthcare Facilities
- High Rise & Mix use buildings
- Universities & College Campuses
- Stadiums, Casinos, places of assembly
- Government Facilities

CRITICAL SYSTEMS:

- Area of Refuge Systems
- Emergency VoIP communication
- Addressable Class N Fire Alarm systems
- BMS and Low Voltage Emergency Lighting

COMPLIANCE & PERFORMANCE FEATURES:

- UL 1424 Listed FPLR/FPLR-CI (dual-rated) for Power-Limited Fire Alarm Circuits. Riser Rated. 300V/105°C classified.
- UL/CAN (ULC formerly S-139) Certified to UL 2196 2 hour fire rating in FHIT/FHIT7 28D
- CSA Certified to CSA Std. C22.2 No. 208; Type FAS90, 300V/90C FT4-ST1
- UL Certified 2-hour fire rating as FPLR-CI for Free Air installed per NEC code
- Fire alarm circuit integrity, emergency systems, and healthcare facilities (NEC Articles 760, 700 & 517)
- Meets National Fire Protection Code (NFPA 70 & 72) fire alarm survivability circuit requirements
- Compliance tested to UL 1424 as suitable for use in applications requiring wet rating
- Tested for Sunlight Resistance in compliance with UL 2556 requirements
- Suitable for 2-hour certified fire-resistive applications in EMT or IMC conduit systems
- UL Listed File No. E-241484. UL Fire Directory R-21213.
- Meets Category 3 requirements per TIA-568-C.2 throughout UL2196 Flame and Hose Stream Testing



Scan here to access
DuraLife documents
on the go!

COPYRIGHT

This document is protected under copyright law and is the property of Radix Wire and Cable. Data contained herein is confidential to Radix Wire and Cable and this document and/or any part of the data contained herein may not be copied, duplicated or released for manufacturing or sale of equipment outside of Radix Wire and Cable or any affiliates without the prior written authorization of Radix Wire & Cable.

SPECIFICATIONS

DuraLife® II Dual Rated Ethernet Multi-Conductor FPLR Shielded/Unshielded Fire Resistive Cables

HARDWARE CERTIFIED: (Refer to DuraLife® II Multi-Conductor Installation Guide for additional details)

- **EMT/IMC Conduit:** Wheatland/Western Tube
- **EMT/IMC Conduit:** Allied/Columbia (EMT: E-Z Pull Brand)
- **EMT Compression Couplings:** Hubbell-Raco or Halex
- **NEMA 1 Splice Enclosure/Pull Box:** Eaton/Cooper
- **Pulling Lubricant:** Polywater LZ
- **Box Fitting Connectors:**
 - » Compression - Cooper Crouse-Hinds (EMT); Hubbell-Raco (EMT/IMC)
 - » Set Screw - Hubbell-Raco (EMT/IMC)
- **Splice Connector:** 3M Butt-Type Crimp Terminals
- **Splice Tapes - 1":** 3M Silicone; St. Gobain Fiberglass Tape

NON-SHIELDED: RADIX WIRE-II DURALIFE-II™ E241484 #/P #AWG FPLR/FPLR-CI / 300V/105C / (UL) 2196 (ULC) 2-HR FIRE RESISTIVE CABLE FOR USE IN FHIT/FHIT7 ELECTRIC CIRCUIT INTEGRITY SYSTEM #28D. SEE UL FIRE RESISTANCE DIRECTORY R21213 // CSA LL80670 FAS90 90C/300V FT4-ST1// SUN RES/WET (MONTH/YEAR)

| RADIX P/N | AWG/ COND.* | SOLID | NOMINAL O.D. (INCH) | COND. RESISTANCE (OHMS/MFT.) | NOM. CAP. (pF/FT) (per pair) | EMT/IMC UNSHIELDED MAX CABLE FILL ALLOWANCE (for in-conduit installations per FHIT 28D) | | | | |
|-----------------|----------------|-------|---------------------------|---------------------------------|---------------------------------|--|----|------|------|----|
| | | | | | | ¾" | 1" | 1 ¼" | 1 ½" | 2" |
| CTU18A0104-CAT3 | 18/2P | Solid | .366" | 6.48 | 14.4 | 1 | 2 | 4 | 6 | 10 |
| CTU18A0106-CAT3 | 18/3P | Solid | .444" | 6.48 | 14.4 | 1 | 1 | 3 | 4 | 7 |
| CTU18A0108-CAT3 | 18/4P | Solid | .518" | 6.48 | 14.4 | X | 1 | 2 | 3 | 5 |

* Numerically printed black/red paired leads

SHIELDED: RADIX WIRE-II DURALIFE-II™ E241484 #/P #AWG FPLR/FPLR-CI / SHLD./ 300V/105C / (UL) 2196 (ULC) 2-HR FIRE RESISTIVE CABLE FOR USE IN FHIT/FHIT7 ELECTRIC CIRCUIT INTEGRITY SYSTEM #28D. SEE UL FIRE RESISTANCE DIRECTORY R21213 // CSA LL80670 FAS90 90C/300V FT4-ST1// SUN RES/WET (MONTH/YEAR)

| RADIX P/N | AWG/ COND.* | SOLID | NOMINAL O.D. (INCH) | COND. RESISTANCE (OHMS/MFT.) | NOM. CAP. (pF/FT) (per pair) | EMT/IMC UNSHIELDED MAX CABLE FILL ALLOWANCE (for in-conduit installations per FHIT 28D) | | | | |
|-----------------|----------------|-------|---------------------------|---------------------------------|---------------------------------|--|----|------|------|----|
| | | | | | | ¾" | 1" | 1 ¼" | 1 ½" | 2" |
| CTS18A0104-CAT3 | 18/2P | Solid | .389" | 6.48 | 18.4 | 1 | 2 | 4 | 5 | 5 |
| CTS18A0106-CAT3 | 18/3P | Solid | .472" | 6.48 | 18.4 | 1 | 1 | 2 | 3 | 3 |
| CTS18A0108-CAT3 | 18/4P | Solid | .551" | 6.48 | 18.4 | X | 1 | 1 | 2 | 2 |

* Numerically printed black/red paired leads



EST. 1944

Radix Wire & Cable

26000 Lakeland Boulevard, Euclid, OH 44132

Tel: 216 731-9191 • Fax: 216 731-7082