

DuraLife® II Dual Rated CI/CI Free Air

UL 2196 2-Hour Fire Resistive Cable

FPLR Shielded/Unshielded 105°C/300V

SPECIFICATIONS

Certified to the harsh requirements of the UL2196 Test for Fire Resistive Cables, the DuraLife II Dual Rated CI/CI cables ensure two-hour operation of critical 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.

Description: Dual Rated CI/CI Cable. UL/CAN (ULC) 2196 Certified/UL 1424 Listed. FHIT/FHIT7 (ULC) System No. 28C. Low smoke, zero halogen design (LSZH).

Sizes Available: 2 conductor, 18-12 AWG unshielded; 18-14 AWG shielded.



CONSTRUCTION:

- **Conductor:** Oxygen-free bare copper (OFHC), solid and/or stranded
- **Insulation:** Proprietary ceramifiable silicone rubber
- **Assembly:** Color-coded black/red leads, 3 twists/foot
- **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
- Transit bridges, tunnels and subways
- Government Facilities

CRITICAL SYSTEMS:

- Fire Alarm and EVAC Systems
- Smoke evacuation and control
- Fan & Pressurization systems
- Strobes & notification appliances
- Area of Refuge Systems
- 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) Certified to UL 2196 2-hour fire rating in FHIT/FHIT7 28C
- CSA Certified FAS90; CSA Std. C22.2 No. 208-14 FT4-ST1
- UL Certified 2-hour fire rating as FPLR-CI for Free Air installed per NEC code
- UL 444 Listed "CMR/CMR-CI" as Communications Cable
- 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
- Meets National Fire Protection Code (NFPA 130 & 502) 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 conduit
- UL Listed File No. E-241484. UL Fire Directory R-21213.
- Splice Allowance



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Radix™

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

- **EMT Conduit:** Wheatland/Western Tube
- **EMT Conduit:** Allied/Columbia E-Z Pull Brand
- **EMT Compression Couplings:** Hubbell-Raco or Halex
- **NEMA 1 Splice Enclosure/Pull Box:** Eaton/Cooper (system use only)
- Standard UL listed steel 4/S Utility Box (CI only)
- **Connectors:** Compression - Cooper Crouse-Hinds; Set-Screw - Hubbell-Raco
- **Splice Connector:** 3M Butt-Type Crimp Terminals
- **Splice Tapes - 1":** 3M Silicone; St. Gobain Fiberglass Tape
- **Pulling Lubricant:** Polywater LZ

NON-SHIELDED: RADIX WIRE-II DURALIFE-II™ E241484 2/C #AWG FPLR/FPLR-CI/CMR 300V/105C / (UL) 2196 (ULC) 2-HR FIRE RESISTIVE CABLE FOR USE IN FHIT/FHIT7 ELECTRIC CIRCUIT INTEGRITY SYSTEM #28C. SEE UL FIRE RESISTANCE DIRECTORY R21213 // CSA LL13427 FAS90 300V FT4-ST1 Sun Res Wet (MONTH/YEAR) CI - NYC certified fire alarm cable

RADIX P/N	#COND	AWG	SOLID OR STRANDED	NOMINAL O.D. (INCH)	NET WEIGHT (LBS PER MFT)	RESISTANCE (OHMS/MFT)	NOMINAL CAPACITANCE (pF/FT)
CTU18A0102	2	18	Solid	.305	53	6.48	14.4
CTU16A0102	2	16	Solid	.335	62	3.99	15.3
CTU14A0102	2	14	Solid	.344	77	2.57	17.1
CTU14A0702	2	14	Stranded	.350	77	2.60	17.3
CTU12A0702	2	12	Stranded	.392	98	1.64	17.6

SHIELDED: RADIX WIRE-II DURALIFE-II™ E241484 2/C #AWG FPLR/FPLR-CI/CMR/SHLD 300V/105C / (UL) 2196 (ULC) 2-HR FIRE RESISTIVE CABLE FOR USE IN FHIT/FHIT7 ELECTRIC CIRCUIT INTEGRITY SYSTEM #28C. SEE UL FIRE RESISTANCE DIRECTORY R21213 // CSA LL13427 FAS90 300V FT4-ST1 Sun Res Wet (MONTH/YEAR) CI - NYC certified fire alarm cable

RADIX P/N	#COND	AWG	SOLID OR STRANDED	NOMINAL O.D. (INCH)	NET WEIGHT (LBS PER MFT)	RESISTANCE (OHMS/MFT)	NOMINAL CAPACITANCE (pF/FT)
CTS18A0102	2	18	Solid	.335	55	6.48	18.4
CTS16A0102	2	16	Solid	.360	65	3.99	19.1
CTS14A0102	2	14	Solid	.390	79	2.57	21.4
CTS14A0702	2	14	Stranded	.393	79	2.60	21.7

*Min-Max Spec Range ± .020

System Fill Allowances (for in-conduit installations per FHIT/FHIT7 28C)

EMT	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Part No.	No. of Cables Max Fill					
CTU18A0102	1	2	4	6	10	10
CTU16A0102	1	2	3	5	7	10
CTU14A0102	1	1	3	5	7	10
CTU12A0102	1	2	2	4	5	10V/9H
CTS18A0102	1	2	3	5	8	8
CTS16A0102	1	2	3	5	7	10
CTS14A0102	N/A	1	2	4	6	10