

SPECIFICATIONS

DuraLife® II Dual Rated CIC/CI Multi-Conductor FPLR/FPLR-CI 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 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 Multi-Conductor CI/CIC Cable. UL 2196 Certified/UL 1424 Listed. FHIT System No. 28D. Low smoke, zero halogen design (LSZH).

Sizes Available: 18-12 AWG unshielded; 18-14 AWG shielded. 4/C, 6/C, and 8/C 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:

- 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 Certified to UL 2196 2-hour fire rating in FHIT 28D
- 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.
- Splice Allowance



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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-SHIELED: RADIX WIRE-II DURALIFE-II™ E241484 #/C #AWG FPLR/FPLR-CI / 300V/105C / (UL) 2196 2-HR FIRE RESISTIVE CABLE FOR USE IN FHIT ELECTRIC CIRCUIT INTEGRITY SYSTEM #28D. SEE UL FIRE RESISTANCE DIRECTORY R21213 // Sun Res Wet (MONTH/YEAR) (XXXX FT)

RADIX P/N	AWG/ COND.	SOLID OR STRANDED	NOMINAL O.D. (INCH)	COND. RESISTANCE (OHMS/FT)	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	18/4C	Solid	.366	6.48	14.4	1	2	4	6	10
CTU18A0106	18/6C	Solid	.444	6.48	14.4	1	1	3	4	7
CTU18A0108	18/8C	Solid	.518	6.48	14.4	X	1	2	3	5
CTU16A0104	16/4C	Solid	.405	3.99	15.3	1	2	3	4	8
CTU16A0106	16/6C	Solid	.485	3.99	15.3	X	1	2	3	5
CTU16A0108	16/8C	Solid	.575	3.99	15.3	X	1	1	2	4
CTU14A0104	14/4C	Solid	.431	2.57	17.1	1	1	3	4	7
CTU14A0106	14/6C	Solid	.523	2.57	17.1	X	1	2	3	5
CTU14A0108	14/8C	Solid	.629	2.57	17.1	X	X	1	2	3
CTU12A0704	12/4C	7-Strand	.483	1.64	17.6	X	1	2	3	5
CTU12A0706	12/6C	7-Strand	.633	1.64	17.6	X	X	1	2	3
CTU12A0708	12/8C	7-Strand	.708	1.64	17.6	X	X	1	1	2

*14AWG 7-Stranded Unshielded available

SHIELED: RADIX WIRE-II DURALIFE-II™ E241484 #/C #AWG FPLR/FPLR-CI / SHLD./ 300V/105C / (UL) 2196 2-HR FIRE RESISTIVE CABLE FOR USE IN FHIT ELECTRIC CIRCUIT INTEGRITY SYSTEM #28D. SEE UL FIRE RESISTANCE DIRECTORY R21213 // Sun Res Wet (MONTH/YEAR) (XXXX FT)

RADIX P/N	#COND	SOLID OR STRANDED	NOMINAL O.D. (INCH)	COND. RESISTANCE (OHMS/FT)	NOM. CAP. (pF/FT) (per pair)	EMT/IMC SHIELED MAX CABLE FILL ALLOWANCE (for in-conduit installations per FHIT 28D)				
						¾"	1"	1 ¼"	1 ½"	2"
CTS18A0104	18/4C	Solid	.389	6.48	18.4	1	2	4	5	5
CTS18A0106	18/6C	Solid	.472	6.48	18.4	1	1	2	3	3
CTS18A0108	18/8C	Solid	.551	6.48	18.4	X	1	1	2	2
CTS16A0104	16/4C	Solid	.411	3.99	19.1	1	2	3	5	8
CTS16A0106	16/6C	Solid	.492	3.99	19.1	X	1	2	3	5
CTS16A0108	16/8C	Solid	.583	3.99	19.1	X	1	1	2	4
CTS14A0104	14/4C	Solid	.463	2.57	21.4	1	1	2	4	6
CTS14A0106	14/6C	Solid	.562	2.57	21.4	X	1	1	2	4
CTS14A0108	14/8C	Solid	.676	2.57	21.4	X	X	1	1	3



EST. 1944

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