SPECIFICATIONS

DuraLife® High Twist Dual-Rated CIC/CI Cables

Certified to the harsh requirements of the UL2196 Test for Fire-Resistive Cables, the DuraLife High Twist Dual-Rated CIC /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.

The DuraLife High Twist Dual-Rated CIC /CI cable offers improved noise resistance designed to perform to the communication needs of modern fire alarm systems operating at higher protocol speeds.

Description: Dual Rated CIC/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 AWG and 16 AWG unshielded.

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

- 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 28C
- CSA Certified FAS90; CSA Std. C22.2 No. 208-14 FT4-ST1
- UL Certified 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
- Meets UL1685 and FT4/IEEE 1202 requirements
- Tested for Sunlight Resistance in compliance with UL 2556 requirements
- Suitable for 2-hour certified fire-resistive applications in EMT, IMC, or Phenolic conduit systems
- UL Listed File No. E-241484. UL Fire Directory R-21213.
- Splice Allowance
- Performance testing of cables, cold bend test of complete cable per defined testing parameters and UL 1424
- NYC certified and CAFM approved

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8-26-2025

DURALIFE®
Survivable Cable Solutions

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CONSTRUCTION:

- **Conductor:** Oxygen-free bare copper (OFHC), solid and/or stranded
- **Insulation:** Proprietary ceramifiable silicone rubber
- **Assembly:** Color-coded black/red leads, 6 twists/foot
- **Jacket:** Red low smoke/zero halogen FRPE with sequential footage markers (custom colors available/special order mins apply)

HARDWARE & ACCESSORIES CERTIFIED: (Refer to DuraLife® II Installation Instructions/Phenolic Addendum for details)

- EMT/Conduit: Wheatland/Western Tube
- EMT/IMC Conduit: Allied/Columbia (EMT: E-Z Pull Brand)
- Phenolic Conduit: Champion Fiberglass
- EMT/IMC Compression Couplings: Hubbell/Raco
- EMT Set-Screw Coupling: Hubbell/Raco
- Phenolic Coupling: Champion Fiberglass
- NEMA 1 Splice Enclosure/Pull Box: Eaton/Cooper (system use only)
- Standard UL Listed steel 4/S Utility Box (CI only)
- Expansion Couplers: Bridgeport fittings (EMT/IMC)
- Box Fittings: Compression – Cooper Crouse-Hinds (EMT); Hubbell/Raco (EMT/IMC)
  Set Screw - Hubbell/Raco (EMT/IMC)
  Phenolic - Champion Fiberglass
- Conduit Clamps: Erico (Phenolic conduit only)
- Splice Connector: 3MButt-Type Crimp Terminals
- Splice Tapes – 1": 3M Silicone; St. Gobain Fiberglass Tape
- Pulling Lubricant: Polywater LZ

UNSHIELDED:

RADIX P/N	TWISTS PER FOOT	#COND	AWG	SOLID OR STRANDED	NOMINAL O.D.(INCH)	NET WEIGHT (LBS PER MFT)	RESISTANCE (OHMs/MFT)	NOMINAL CAPACITANCE (pF/FT)	IMPEDANCE (OHMS)
CTU18A0102-HT	6	2	18	Solid	0.305	56	5.83	15	129
CTU16A0102-HT	6	2	16	Solid	0.335	65	3.73	15	116
CTU16A0702-HT	6	2	16	Stranded	0.335	65	3.76	15.3	116

System Fill Allowances (EMT - ½" to 2"; IMC - ¾" to 2")

EMT/IMC	½"	¾"	1"	1 ¼"	1 ½"	2"
Part No.	No. of Cables Max Fill					
CTU18A0102-HT	1	2	4	6	10	N/A
CTU16A0102-HT	1	1	3	5	7	10
CTU16A0702-HT	1	1	3	5	7	10

System Fill Allowances (Phenolic Conduit - 1" to 2")

PHENOLIC	1"	1 ¼"	1 ½"	2"
Part No.	No. of Cables Max Fill			
CTU18A0102-HT	3	6	9	N/A
CTU16A0102-HT	2	4	6	10
CTU16A0702-HT	2	4	6	10

Radix™ WIRE & CABLE
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