



Specification Sheet

BWC Part Number #: BWC-CTU18A0102

DuraLife® II Dual Rated CIC/CI Free Air - 2-Hour Fire Resistive Cable

Application

DuraLife® II cables are 2-hour fire-resistive cables designed to ensure the operation of critical systems during a fire. The dual CIC/CI rating provides versatility, allowing for installation in both in-conduit and free-air scenarios to meet code survivability requirements.

These cables are suitable for a wide range of facilities and critical systems:

- **Facilities:**
 - Hospitals & Healthcare Facilities
 - High Rise & Mixed-Use Buildings
 - Universities & College Campuses
 - Stadiums, Casinos, and 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

Construction

- **Conductor:** Oxygen-free bare copper (OFHC), available in solid or stranded configurations.
- **Insulation:** Proprietary ceramifiable silicone rubber.

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- **Assembly:** Conductors are color-coded black and red and assembled with approximately 3 twists per foot.
- **Jacket:** The cable features a red, low-smoke/zero-halogen (LSZH) FRPE jacket with sequential footage markers. Custom colors are available via special order.

Standards & Certifications

- Fire Rating: Certified to UL 2196 for a 2-hour fire rating (FHIT/FHIT7 System No. 28C). UL Certified as FPLR-CI for 2-hour free-air installation per NEC code.
- UL Listings:
 - UL 1424 Listed as FPLR/FPLR-CI (dual-rated) for Power-Limited Fire Alarm Circuits; Riser Rated, 300V/105°C.
 - UL 444 Listed as "CMR/CMR-CI" for Communications Cable.
 - UL Listed File No. E-241484 and UL Fire Directory R-21213.
- CSA Certification: CSA Certified FAS90 and meets CSA Std. C22.2 No. 208-14 FT4-ST1.
- Code Compliance: Meets NFPA 70, 72, 130, & 502 for fire alarm survivability circuits. Also suitable for use in emergency systems and healthcare facilities per NEC Articles 700, 760, & 517.
- Performance:
 - Meets UL1685 and FT4/IEEE 1202 flame test requirements.
 - Tested for Sunlight Resistance in compliance with UL 2556.
 - Compliance tested to UL 1424 as suitable for use in wet rating applications.
- Other: NYC Certified.

Product Specifications – Unshielded

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	0.305	53	6.48	14.4



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RADIX P/N	#COND	AWG	SOLID OR STRANDED	NOMINAL O.D. (INCH)	NET WEIGHT (LBS PER MFT)	RESISTANCE (OHMS/MFT)	NOMINAL CAPACITANCE (pF/FT)
CTU16A0102	2	16	Solid	0.335	62	3.99	15.3
CTU14A0102	2	14	Solid	0.344	77	2.57	17.1
CTU14A0702	2	14	Stranded	0.35	77	2.6	17.3
CTU12A0702	2	12	Stranded	0.392	98	1.64	17.6

Product Specifications – Shielded

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	0.335	55	6.48	18.4
CTS16A0102	2	16	Solid	0.36	65	3.99	19.1
CTS14A0102	2	14	Solid	0.39	79	2.57	21.4
CTS14A0702	2	14	Stranded	0.393	79	2.6	21.7

ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION. BEST WIRE IS NOT RESPONSIBLE FOR UNKNOWN PERFORMANCE ATTRIBUTES THAT WERE NOT MADE KNOWN TO BEST WIRE AT THE TIME OF DESIGN.

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