



Specification Sheet

BWC Part Number #: BWC-CTS18A0105

DuraLife® II Dual Rated CIC/CI Multi-Conductor Fire Resistive Cables

Application

Certified to the demanding requirements of the UL 2196 Test for Fire Resistive Cables, DuraLife II multi-conductor cables ensure two-hour operation of critical systems during a fire. The dual CIC/CI rating offers maximum versatility, meeting code survivability requirements for installations in both conduit and free-air scenarios.

Application

These cables are designed for use in a variety of facilities and critical systems:

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

Construction

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



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Specification Sheet

- **Assembly:** Numerically printed black/red paired leads. For odd-numbered constructions, the black lead is used.
- **Jacket:** A red, low-smoke/zero-halogen (LSZH) FRPE jacket is standard and includes sequential footage markers. Custom colors are available with special order minimums.

Standards & Certifications

- Fire Rating: UL/CAN (ULC) Certified to UL 2196 for a 2-hour fire rating in FHIT System No. 28D. The FHIT7 System No. 28D is for non-shielded cables in Canada.
- UL Listings:
 - UL 1424 Listed as FPLR/FPLR-CI (dual-rated) for Power-Limited Fire Alarm Circuits; Riser Rated, 300V/105°C classified.
 - UL Certified 2-hour fire rating as FPLR-CI for Free Air installation per NEC code.
 - UL Listed File No. E-241484 and UL Fire Directory R-21213.
- CSA Certification: CSA Certified to CSA Std. C22.2 No. 208; Type FAS90, 300V/90C FT4-ST1.
- Performance & Code Compliance:
 - Meets NEC Articles 700, 517, & 760 for emergency systems, healthcare facilities, and fire alarm circuit integrity.
 - Meets NFPA 130 & 502 survivability circuit requirements.
 - Meets UL1685 and FT4/IEEE 1202 flame test requirements.
 - Tested for Sunlight Resistance (UL 2556) and suitability for wet ratings (UL 1424).
- Other Approvals: NYC certified and CAFM approved.

Certified Hardware

- Conduit: Wheatland/Western Tube (EMT/IMC); Allied/Columbia (EMT: E-Z Pull Brand).
- Connectors & Couplings: Hubbell-Raco (Set Screw & Compression); Cooper Crouse-Hinds (Compression).
- Splices & Boxes: 3M Butt-Type Crimp Terminals for splices; 3M Silicone & St. Gobain Fiberglass Tapes; Eaton/Cooper NEMA 1 Splice Enclosure/Pull Box.
- Lubricant: Polywater LZ Pulling Lubricant.

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Specification Sheet

Product Specifications – Unshielded

PART NUMBER	AWG/COND	SOLID OR STRANDED	NOMINAL O.D. (INCH)	COND.REISTANCE (OHMs/FT)	NOM. CAP. (pF/FT)(per pair)
CTU18A0103	18/3C	SOLID	.330"	6.48	-
CTU18A0104	18/4C	SOLID	.366"	6.48	14.4
CUT18A0105	18/5C	SOLID	.410"	6.48	-
CUT18A0106	18/6C	SOLID	.444"	6.48	14.4
CTU18A0107	18/7C	SOLID	.490"	6.48	-
CTU18A0108	18/8C	SOLID	.518"	6.48	14.4
CTU16A0103	16/3C	SOLID	.380"	3.99	-
CTU16A0104	16/4C	SOLID	.405"	3.99	15.3
CTU16A0105	16/5C	SOLID	.450"	3.99	-
CTU16A0106	16/6C	SOLID	.485"	3.99	15.3
CTU16A0107	16/7C	SOLID	.530"	3.99	-
CTU16A0108	16/8C	SOLID	.575"	3.99	15.3
CTU14A0103	14/3C	SOLID	.405"	2.57	-
CTU14A0104	14/4C	SOLID	.431"	2.57	17.1
CTU14A0105	14/5C	SOLID	.485"	2.57	
CTU14A0106	14/6C	SOLID	.523"	2.57	17.1
CTU14A0107	14/7C	SOLID	.570"	2.57	
CTU14A0108	14/8C	SOLID	.629"	2.57	17.1
CTU12A0703	12/3C	7-STRAND	.460"	1.64	-
CTU12A0704	12/4C	7-STRAND	.483"	1.64	17.6

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Specification Sheet

PART NUMBER	AWG/COND	SOLID OR STRANDED	NOMINAL O.D. (INCH)	COND.REISTANCE (OHMs/FT)	NOM. CAP. (pF/FT)(per pair)
CTU12A0705	12/5C	7-STRAND	.590"	1.64	-
CTU12A0706	12/6C	7-STRAND	.633"	1.64	17.6
CTU12A0707	12/7C	7-STRAND	.670"	1.64	-
CTU12A0708	12/8C	7-STRAND	.708"	1.64	17.6

EMT/MC UNSHIELDED MAX CABLE FILL ALLOWANCE					
PART NUMBER	¾"	1"	1 ¾"	1 ½"	2"
CTU18A0103	1	2	4	6	10
CTU18A0104	1	2	4	6	10
CUT18A0105	1	1	3	4	7
CUT18A0106	1	1	3	4	7
CTU18A0107	X	1	2	3	5
CTU18A0108	X	1	2	3	5
CTU16A0103	1	2	3	4	8
CTU16A0104	1	2	3	4	8
CTU16A0105	X	1	2	3	5
CTU16A0106	X	1	2	3	5
CTU16A0107	X	1	1	2	4
CTU16A0108	X	1	1	2	4
CTU14A0103	1	1	3	4	7
CTU14A0104	1	1	3	4	7

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EMT/MC UNSHIELDED MAX CABLE FILL ALLOWANCE					
PART NUMBER	¾"	1"	1 ¾"	1 ½"	2"
CTU14A0105	X	1	2	3	5
CTU14A0106	X	1	2	3	5
CTU14A0107	X	X	1	2	3
CTU14A0108	X	X	1	2	3
CTU12A0703	X	1	2	3	5
CTU12A0704	X	1	2	3	5
CTU12A0705	X	X	1	2	3
CTU12A0706	X	X	1	2	3
CTU12A0707	X	X	1	1	2
CTU12A0708	X	X	1	1	2

Product Specifications – Shielded

PART NUMBER	AWG/COND	SOLID OR STRANDED	NOMINAL O.D. (INCH)	COND.REISTANCE (OHMS/FT)	NOM. CAP. (pF/FT)(per pair)
CTS18A0103	18/3C	SOLID	.355"	6.48	-
CTS18A0104	18/4C	SOLID	.389"	6.48	18.4
CTS18A0105	18/5C	SOLID	.445"	6.48	-
CTS18A0106	18/6C	SOLID	.472"	6.48	18.4
CTS18A0107	18/7C	SOLID	.525"	6.48	-
CTS18A0108	18/8C	SOLID	.551"	6.48	18.4
CTS16A0103	16/3C	SOLID	.400"	3.99	-





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PART NUMBER	AWG/COND	SOLID OR STRANDED	NOMINAL O.D. (INCH)	COND.REISTANCE (OHMs/FT)	NOM. CAP. (pF/FT)(per pair)
CTS16A0104	16/4C	SOLID	.411"	3.99	19.1
CTS16A0105	16/5C	SOLID	.470"	3.99	-
CTS16A0106	16/6C	SOLID	.492"	3.99	19.1
CTS16A0107	16/7C	SOLID	.560"	3.99	-
CTS16A0108	16/8C	SOLID	.583"	3.99	19.1
CTS14A0103	14/3C	SOLID	.430"	2.57	-
CTS14A0104	14/4C	SOLID	.463"	2.57	21.4
CTS14A0105	14/5C	SOLID	.505"	2.57	-
CTS14A0106	14/6C	SOLID	.562"	2.57	21.4
CTS14A0107	14/7C	SOLID	.600"	2.57	-
CTS14A0108	14/8C	SOLID	.676"	2.57	21.4

EMT/MC UNSHIELDED MAX CABLE FILL ALLOWANCE					
PART NUMBER	¾"	1"	1 ¾"	1 ½"	2"
CTS18A0103	1	2	4	5	5
CTS18A0104	1	2	4	5	5
CTS18A0105	1	1	2	3	3
CTS18A0106	1	1	2	3	3
CTS18A0107	X	1	1	2	2
CTS18A0108	X	1	1	2	2

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EMT/MC UNSHIELDED MAX CABLE FILL ALLOWANCE					
PART NUMBER	¾"	1"	1 ¾"	1 ½"	2"
CTS16A0103	1	2	3	5	8
CTS16A0104	1	2	3	5	8
CTS16A0105	X	1	2	3	5
CTS16A0106	X	1	2	3	5
CTS16A0107	X	1	1	2	4
CTS16A0108	X	1	1	2	4
CTS14A0103	1	1	2	4	6
CTS14A0104	1	1	2	4	6
CTS14A0105	X	1	1	2	4
CTS14A0106	X	1	1	2	4
CTS14A0107	X	X	1	1	3
CTS14A0108	X	X	1	1	3

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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