



Specification Sheet

BWC Part Number #: BWC-CTS18A0108

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.



1343 Exchange Dr. Richardson, TX 75081 | 972-231-5600 | www.bestwirecable.com

Information on this specification is subject to change without notice. REV 03062023





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.

GET WIRED





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





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

GET WIRED

1343 Exchange Dr. Richardson, TX 75081 | 972-231-5600 | www.bestwirecable.com

Information on this specification is subject to change without notice. REV 03062023



SCAN ME



Specification Sheet

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	-





Specification Sheet

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

GET WIRED

1343 Exchange Dr. Richardson, TX 75081 | 972-231-5600 | www.bestwirecable.com

Information on this specification is subject to change without notice. REV 03062023





Specification Sheet

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.

GET WIRED

1343 Exchange Dr. Richardson, TX 75081 | 972-231-5600 | www.bestwirecable.com

Information on this specification is subject to change without notice. REV 03062023



SCAN ME