



## Specification Sheet

**BWC Part Number #: BWC-CTS18A0106**

### 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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- **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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### 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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| 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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