



Specification Sheet

BWC Part Number: BWC-CTS18A0103

Description: Multi-Conductor Dual-Rated CIC/CI Cables. UL 2196 Certified/UL 1424 Listed. FHIT System No. 28D. Low smoke, zero halogen design (LSZH).
FHIT7 System No. 28D

CONSTRUCTION:

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

APPLICATIONS:

- Hospitals & Healthcare Facilities
- High Rise & Mix use buildings
- Universities & College Campuses
- Stadiums, Casinos, 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

COMPLIANCE & PERFORMANCE FEATURES:

- 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 to CSA Std. C22.2 No. 208; Type FAS90, 300V/90C FT4-ST1
- UL Certified 2-hour fire rating as FPLR-CI for Free Air installed per NEC code
- Fire alarm circuit integrity, emergency systems, and healthcare facilities (NEC Articles 760, 700 & 517)
- 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 or IMC conduit systems
- UL Listed File No. E-241484. UL Fire Directory R-21213
- CAFM approved



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UNSHIELDED:

P/N	AWG/ COND.*	SOLID OR STRANDED	NOMINAL O.D. (INCH)	COND. RESISTANCE (OHMS/FT)	NOM.CAP. (pF/FT) (per pair)	EMT/IMC UNSHIELDED MAX CABLE FILL ALLOWANCE (for in-conduit installations per FHIT 28D)				
						3/4"	1"	1 1/4"	1 1/2"	2"
CTU18A0103	18/3C	Solid	.330"	6.48	–	1	2	4	6	10
CTU18A0104	18/4C	Solid	.366"	6.48	14.4	1	2	4	6	10
CTU18A0105	18/5C	Solid	.410"	6.48	–	1	1	3	4	7
CTU18A0106	18/6C	Solid	.444"	6.48	14.4	1	1	3	4	7
CTU18A0107	18/7C	Solid	.490"	6.48	–	X	1	2	3	5
CTU18A0108	18/8C	Solid	.518"	6.48	14.4	X	1	2	3	5
CTU16A0103	16/3C	Solid †	.380"	3.99	–	1	2	3	4	8
CTU16A0104	16/4C	Solid †	.405"	3.99	15.3	1	2	3	4	8
CTU16A0105	16/5C	Solid †	.450"	3.99	–	X	1	2	3	5
CTU16A0106	16/6C	Solid †	.485"	3.99	15.3	X	1	2	3	5
CTU16A0107	16/7C	Solid †	.530"	3.99	–	X	1	1	2	4
CTU16A0108	16/8C	Solid †	.575"	3.99	15.3	X	1	1	2	4
CTU14A0103	14/3C	Solid †	.405"	2.57	–	1	1	3	4	7
CTU14A0104	14/4C	Solid †	.431"	2.57	17.1	1	1	3	4	7
CTU14A0105	14/5C	Solid †	.485"	2.57	–	X	1	2	3	5
CTU14A0106	14/6C	Solid †	.523"	2.57	17.1	X	1	2	3	5
CTU14A0107	14/7C	Solid †	.570"	2.57	–	X	X	1	2	3
CTU14A0108	14/8C	Solid †	.629"	2.57	17.1	X	X	1	2	3
CTU12A0703	12/3C	7-Strand**	.460"	1.64	–	X	1	2	3	5
CTU12A0704	12/4C	7-Strand**	.483"	1.64	17.6	X	1	2	3	5
CTU12A0705	12/5C	7-Strand**	.590"	1.64	–	X	X	1	2	3
CTU12A0706	12/6C	7-Strand**	.633"	1.64	17.6	X	X	1	2	3
CTU12A0707	12/7C	7-Strand**	.670"	1.64	–	X	X	1	1	2
CTU12A0708	12/8C	7-Strand**	.708"	1.64	17.6	X	X	1	1	2

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





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SHIELDED:

P/N	#COND*	SOLID OR STRANDED	NOMINAL O.D. (INCH)	COND. RESISTANCE (OHMS/FT)	NOM. CAP. (pF/FT) (per pair)	EMT/IMC SHIELDED MAX CABLE FILL ALLOWANCE (for in-conduit installations per FHIT 28D)				
						3/4"	1"	1 1/4"	1 1/2"	2"
CTS18A0103	18/3C	Solid	.355"	6.48	–	1	2	4	5	5
CTS18A0104	18/4C	Solid	.389"	6.48	18.4	1	2	4	5	5
CTS18A0105	18/5C	Solid	.445"	6.48	–	1	1	2	3	3
CTS18A0106	18/6C	Solid	.472"	6.48	18.4	1	1	2	3	3
CTS18A0107	18/7C	Solid	.525"	6.48	–	X	1	1	2	2
CTS18A0108	18/8C	Solid	.551"	6.48	18.4	X	1	1	2	2
CTS16A0103	16/3C	Solid †	.400"	3.99	–	1	2	3	5	8
CTS16A0104	16/4C	Solid †	.411"	3.99	19.1	1	2	3	5	8
CTS16A0105	16/5C	Solid †	.470"	3.99	–	X	1	2	3	5
CTS16A0106	16/6C	Solid †	.492"	3.99	19.1	X	1	2	3	5
CTS16A0107	16/7C	Solid †	.560"	3.99	–	X	1	1	2	4
CTS16A0108	16/8C	Solid †	.583"	3.99	19.1	X	1	1	2	4
CTS14A0103	14/3C	Solid †	.430"	2.57	–	1	1	2	4	6
CTS14A0104	14/4C	Solid †	.463"	2.57	21.4	1	1	2	4	6
CTS14A0105	14/5C	Solid †	.505"	2.57	–	X	1	1	2	4
CTS14A0106	14/6C	Solid †	.562"	2.57	21.4	X	1	1	2	4
CTS14A0107	14/7C	Solid †	.600"	2.57	–	X	X	1	1	3
CTS14A0108	14/8C	Solid †	.676"	2.57	21.4	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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