



SPECIFICATION CONTROL DRAWING

CBS-24CN21-41M

CANbus CABLE, AWG 24

Date: 6/23/23

Revision: D

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THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

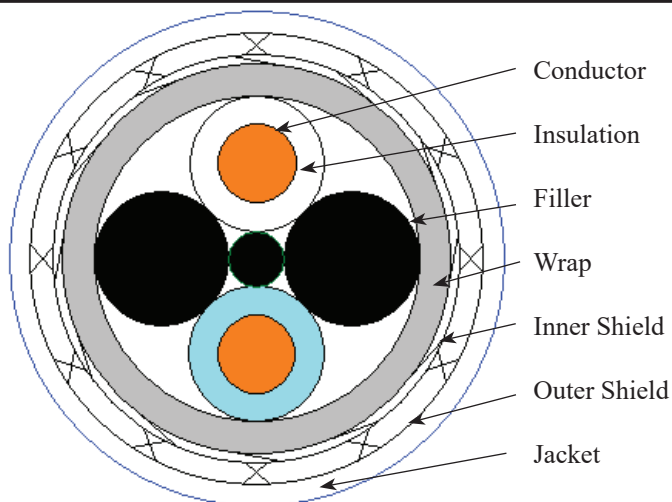


TABLE I

Single Components	Pair	Wire Insulation Color
1	1	9 (white)
2	1	6L (lt. blue)

Primary Wire (Data)		Dimensions inches (nom)
Conductor:	AWG 24 19/36, Silver-coated high-strength copper alloy	.0235
Insulation	Foamed FEP	.044
Cable Assembly		
Filler:	2 ea: FEP Filler .043" 1 ea: FEP Filler .018"	
Layer 1	2 single components	.102
Wrap	ePTFE (66% overlap)	.120
Inner Shield:	Flat tin-copper 92% coverage (min)	.127
Outer Shield	AWG 38, tin-coated copper 85% coverage (min)	.144
Jacket:	FEP-LM .008 inch thickness	.160 + .008
Cable Weight:	21.88 lb/kft (22.3 lb/kft Max)	

Designate outer jacket color with a dash number appended to the part number.
Example: White jacket; CBS-24CN21-41M-9.

Color code designators shall be in accordance with MIL-STD-681.

ELECTRICAL CHARACTERISTICS

Data Pair

Impedance: 120 ohms \pm 12 ohms (Method D @ 1 MHz)

Attenuation (max) at 25° C

1.0 dB/100 ft.(maximum) @ 1MHz
2.0 dB/100 ft (maximum) @ 6 MHz
2.7 dB/100 ft (maximum) @ 10 MHz
7.4 dB/100 ft (maximum) @ 100 MHz

Conductor DC Resistance: 27.8 ohms/1000ft (nominal)

ADDITIONAL REQUIREMENTS & RATINGS

Temperature Rating: - -65°C to 150C

Voltage Withstand: 1500 volts (rms), conductor to conductor and shield.

Jacket tensile strength: 2000 psi (minimum)

Jacket elongation: 200% (minimum)

Jacket Flaws: Spark Test: 1 kV (rms)
Impulse Dielectric Test 6.0 kV (peak)

Flammability: Finished cable shall meet the requirements of FAR Part 25, Appendix F, Part I when tested in accordance with the 60° test specification herein.

Laser Mark Contrast: When a laser mark is required, the mark shall meet the following as applicable:

Full Mask Laser = 67% (min)

Dot Matrix Laser = 60% (min)

Cable will be supplied in 50 ft minimum lengths unless otherwise specified

Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

Users should evaluate the suitability of this product for their application. TE Connectivity Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

This specification sheet takes precedence over documents referenced herein. Referenced documents shall be of the issue in effect on date of invitation for bid.

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