



SPECIFICATION CONTROL DRAWING

CBS-22C182-M18

CANbus CABLE, AWG 22

Date: 2/15/2016
 Revision: A
 Page 1 of 1

THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION WCD 2015

CONSTRUCTION DETAILS

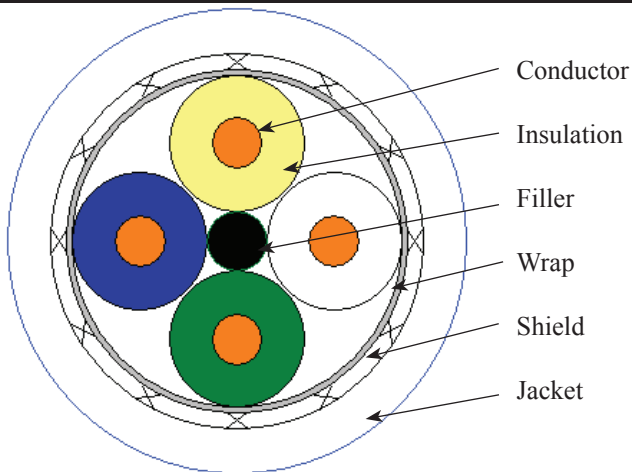


TABLE I

Single Components	Pair	Wire Insulation Color
1	1	4 (yellow)
2	2	9 (white)
3	1	5 (green)
4	2	6 (blue)

<u>Primary Wire (Data)</u>		<u>Dimensions</u> inches (nom)
Conductor:	AWG 22 19/34, tin-coated copper	.0295
Insulation	Rayfoam FS	.077
<u>Cable Assembly</u>		
Filler:	Solid Thermorad Filler: .035 inch	
Layer 1	4 components 1 Filler	.189
Wrap	Al-PET .002"-Al facing out 25% (min) overlap	.197
Outer Shield:	Round tinned copper 36 AWG Optimized 92% coverage (min)	.218
Jacket:	Zerohal .030 inch thickness	.278+ .014
Cable Weight:	45.88 lb/kft	

Designate outer jacket color with a dash number appended to the part number.
 Example: Black jacket; CBS-22C182-M18-0.

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

ELECTRICAL CHARACTERISTICS

Impedance: 120 ohms ± 12 ohms (Method D) at 1 MHz with shield grounded
 Per pair (Pair 1: yellow/green Pair 2: white/blue)

Mutual Capacitance: 27.7 pF/ft. (nominal) at 1 MHz

Velocity of Propagation: 75.5% (nominal)

Surface Transfer Impedance: 225 milliohms/meter (max) at 0.1 to 1 MHz
 (per MIL-DTL-85485)

Specification: Raychem Specification 1200 (Electricals only)

ADDITIONAL REQUIREMENTS & RATINGS

Temperature Rating: -30°C to 105C

Shield AWG: Shield AWG is nominal to allow for changes to meet the surface transfer impedance.

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. Tyco Electronics 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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