SPECIFICATION CONTROL DRAWING

CHEMINAX

77 OHM, AWG 24, 19 STRANDS OF AWG 36, OPTIMIZED SHIELD, DATA BUS CABLE

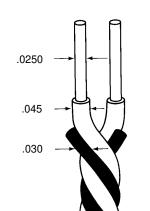
Date: 7-22-14
Revision: B

7724A1524

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

CONSTRUCTION DETAILS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.



.103

.129 -

CONDUCTORS

AWG 24, 19 Strands of AWG 36, Silver-Coated High-Strength Copper Alloy

DIELECTRICS

Foamed FEP Colors - Light Blue/White

FILLERS

Radiation-Crosslinked, Modified ETFE

SHIELD

AWG 40, Silver-Coated High-Strength Copper Alloy,

Optimized

UXL-ETFE

JACKET

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE 77 ± 5 ohms, Method C at 1 MHz

MUTUAL CAPACITANCE 18.0 pF/ft. (nominal)

VELOCITY OF PROPAGATION 76% (nominal)

ATTENUATION 1.4 dB/100 ft. (maximum) at 1 MHz

SURFACE TRANSFER IMPEDANCE 150 milliohms/meter (maximum) at 20 MHz

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE 26.5 ohms/1000 ft. (nominal)

(prior to cabling)

INSULATION RESISTANCE 10,000 megohms (minimum) for 1000 ft.

JACKET FLAWS

SPARK TEST 1.0 kV (rms)
IMPULSE TEST 6.0 kV (peak)

VOLTAGE WITHSTAND (DIELECTRIC) 1500 volts (rms)

ENVIRONMENTAL

FLAMMABILITY Method B

LOW TEMPERATURE-COLD BEND -55°C/3.50 inch mandrel
VOLTAGE WITHSTAND 1000 volts (rms), 1 minute

(Post Environmental)

PHYSICAL

INSULATION (DIELECTRIC)

(prior to cabling)
ELONGATION 50% (minimum)
TENSILE STRENGTH 600 lbf/in² (minimum)

JACKET

ELONGATION 150% (minimum)
TENSILE STRENGTH 5000 lbf/in² (minimum)

JACKET THICKNESS .008 inch (nominal)

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Unless otherwise specified, outer jacket color will be white designated by a "-9" appended to the part number, (e.g. 7724A1524-9).

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

WEIGHT 12.5 lbs/1000 ft. (nominal)

ENGINEERING REFERENCE

TEMPERATURE RATING 150°C (maximum)

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. 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.

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