

SPECIFICATION CONTROL DRAWING

7724A1524

CHEMINAX

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

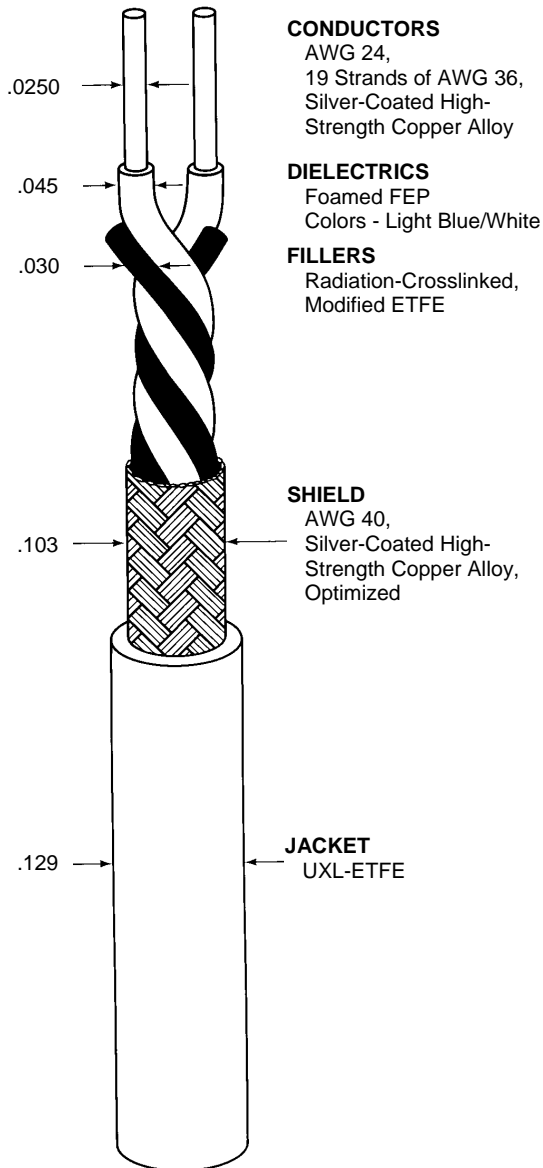
Date: 7-22-14
Revision: B

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

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.



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

JACKET
UXL-ETFE

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 (prior to cabling)	26.5 ohms/1000 ft. (nominal)
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 (Post Environmental)	1000 volts (rms), 1 minute

PHYSICAL

INSULATION (DIELECTRIC) (prior to cabling)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	600 lbf/in ² (minimum)
JACKET	
ELONGATION	150% (minimum)
TENSILE STRENGTH	5000 lbf/in ² (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)
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ENGINEERING REFERENCE

TEMPERATURE RATING	150°C (maximum)
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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.

