

**SPECIFICATION CONTROL DRAWING**

**7724R3524**

**CHEMINAX**

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

Date: 8-8-18  
Revision: F

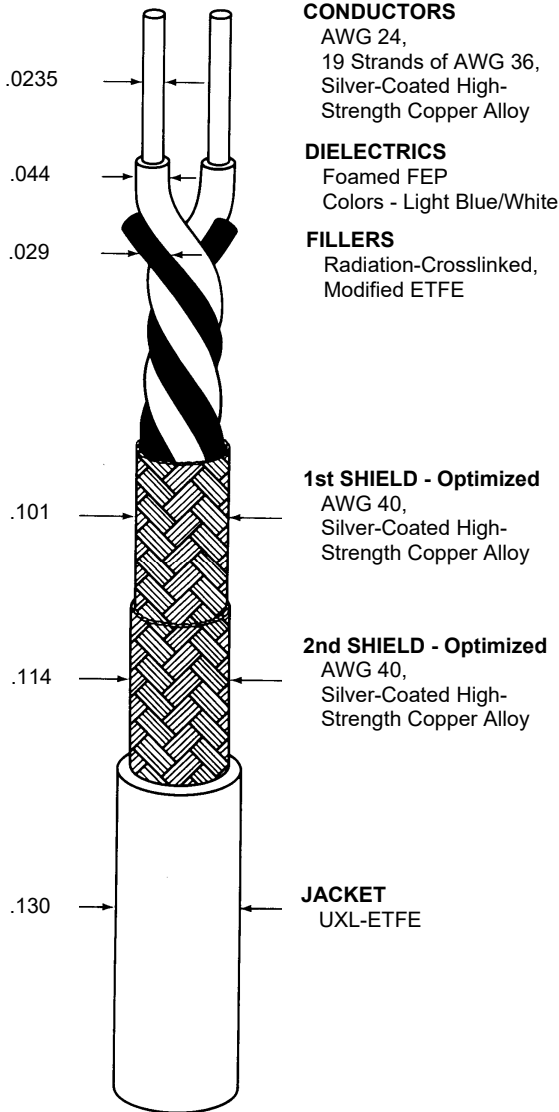
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

**CONSTRUCTION DETAILS**

**ELECTRICAL CHARACTERISTICS**

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

CHARACTERISTIC IMPEDANCE	77 ± 5 ohms, Method C at 1 MHz
MUTUAL CAPACITANCE	18 pF/ft. (nominal)
VELOCITY OF PROPAGATION	80% (nominal)
ATTENUATION	1.4 dB/100 ft. (maximum) at 1 MHz
SURFACE TRANSFER IMPEDANCE (Curve is defined by the following points)	30 mΩ/meter (max), dc to 2 MHz (dc resistance to 100 kHz determined by dc resistance measurement) 10 mΩ/meter (max), 2 MHz to 20 MHz 20 mΩ/meter (max), 20 MHz to 30 MHz



**ADDITIONAL REQUIREMENTS**

**ELECTRICAL**

CONDUCTOR RESISTANCE (prior to cabling)	27.8 ohms/1000 ft. (nominal)
INSULATION RESISTANCE	10,000 megohms (minimum) for 1000 ft.
JACKET FLAWS SPARK TEST IMPULSE TEST	1.0 kV (rms) 6.0 kV (peak)
VOLTAGE WITHSTAND (DIELECTRIC)	500 volts (rms) (minimum)

**ENVIRONMENTAL**

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

**PHYSICAL**

CABLE LAY LENGTH	.75 inch (minimum), 1.25 inches (maximum)
INSULATION (DIELECTRIC) (prior to cabling) ELONGATION TENSILE STRENGTH	50% (minimum) 600 lbf/in <sup>2</sup> (minimum)
JACKET ELONGATION TENSILE STRENGTH	150% (minimum) 5000 lbf/in <sup>2</sup> (minimum)
JACKET THICKNESS	.008 inch (nominal)

WEIGHT	16.6 lbs/1000 ft. (nominal)
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**ENGINEERING REFERENCE**

TEMPERATURE RATING	150°C (maximum)
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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. 7724R3524-9.

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. Specifications are subject to change without notice. TE Connectivity 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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