

SPECIFICATION CONTROL DRAWING

7724A1424

CHEMINAX

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

Date: 8-8-18
Revision: B

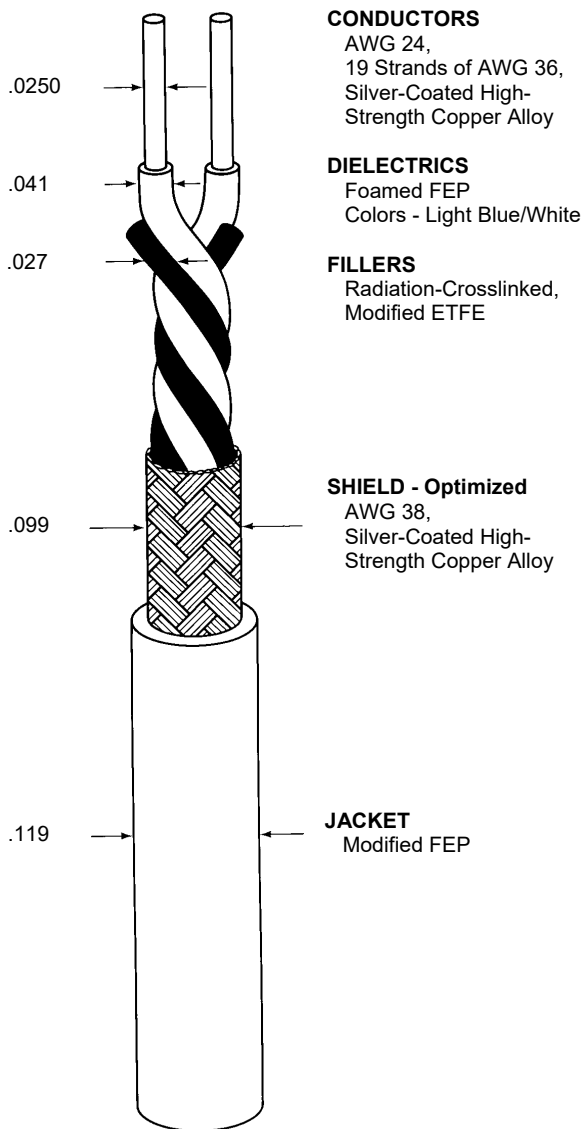
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

CHARACTERISTIC IMPEDANCE	77 ± 5 ohms, Method C at 1 MHz
MUTUAL CAPACITANCE	18 pF/ft. (nominal)
VELOCITY OF PROPAGATION	76% (nominal)
ATTENUATION	1.4 dB/100 ft. (maximum) at 1 MHz
SURFACE TRANSFER IMPEDANCE	TBD



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 - Optimized
AWG 38,
Silver-Coated High-
Strength Copper Alloy

JACKET
Modified FEP

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 IMPULSE TEST	1.0 kV (rms) 6.0 kV (peak)
VOLTAGE WITHSTAND (DIELECTRIC)	1000 volts (rms) (minimum)

ENVIRONMENTAL

FLAMMABILITY	Method B
HEAT SHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/3.25 inch mandrel
UV LASER MARKING (per SAE AS4373, Method 1001)	For 7724A1424-9LM only: SOLID LASER 67% (minimum) DOT MATRIX LASER 60% (minimum)
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	50% (minimum)
TENSILE STRENGTH	600 lbf/in ² (minimum)
JACKET ELONGATION	200% (minimum)
TENSILE STRENGTH	2000 lbf/in ² (minimum)
JACKET THICKNESS	.010 inch (nominal)

WEIGHT	13.6 lbs/1000 ft. (nominal)
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ENGINEERING REFERENCE

TEMPERATURE RATING	200°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 translucent white designated by a "-9X" appended to the part number, e.g. 7724A1424-9X.

A white laser markable outer jacket will be designated by a "-9LM" appended to the part number, e.g. 7724A1424-9LM.

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.

