

**SPECIFICATION CONTROL DRAWING**

**7824E0422**

**CHEMINAX**

78 OHM, AWG 24, 19 STRANDS OF AWG 36, DATA BUS CABLE

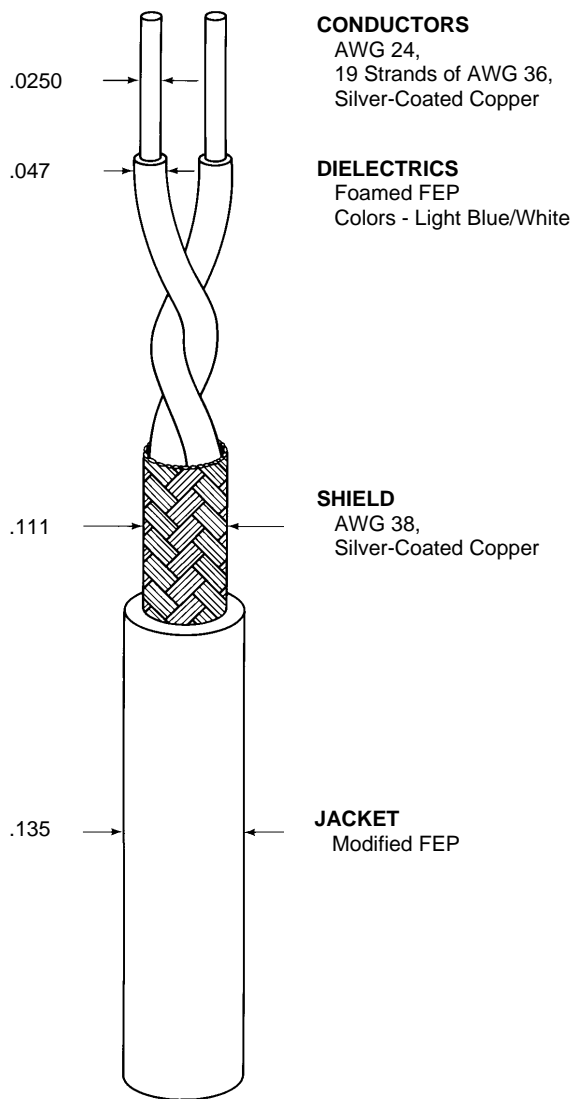
Date: 8-30-16  
Revision: G

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 Copper

**DIELECTRICS**  
Foamed FEP  
Colors - Light Blue/White

**SHIELD**  
AWG 38,  
Silver-Coated Copper

**JACKET**  
Modified FEP

CHARACTERISTIC IMPEDANCE	78 ± 4 ohms, Method C at 1 MHz
CAPACITANCE CONDUCTOR TO CONDUCTOR	20 pF/ft. (maximum)
VELOCITY OF PROPAGATION	74% (nominal)
ATTENUATION	10 dB/100 ft. (nominal) at 100 MHz

**ADDITIONAL REQUIREMENTS**

**ELECTRICAL**

CONDUCTOR RESISTANCE (prior to cabling)	23.0 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/3.75 inch mandrel
UV LASER MARKING (Per SAE AS4373, Method 1001)	For 7824E0422-9LM only: 67% (minimum) 60% (minimum)
VOLTAGE WITHSTAND (Post Environmental)	1000 volts (rms), 1 minute

**PHYSICAL**

INSULATION (DIELECTRIC) (prior to cabling) ELONGATION TENSILE STRENGTH	50% (minimum) 600 lbf/in <sup>2</sup> (minimum)
JACKET ELONGATION TENSILE STRENGTH	200% (minimum) 2000 lbf/in <sup>2</sup> (minimum)
JACKET THICKNESS	.012 inch (nominal)
SHIELD COVERAGE	90% (minimum)

WEIGHT	14.2 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. 7824E0422-9X.

A white laser markable outer jacket will be designated by a "-9LM" appended to the part number, e.g. 7824E0422-9LM.

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. 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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