

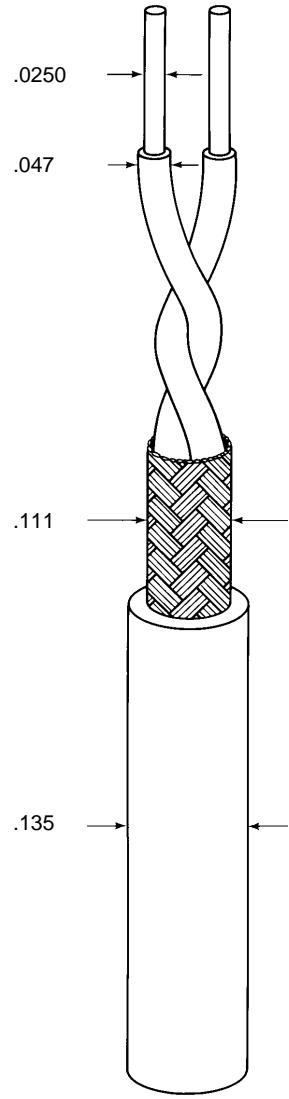
**SPECIFICATION CONTROL DRAWING**
**7824E0422**
**CHEMINAX**

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.

<b>CONSTRUCTION DETAILS</b>		<b>ELECTRICAL CHARACTERISTICS</b>	
DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.			
		<b>CHARACTERISTIC IMPEDANCE</b> $78 \pm 4$ ohms, Method C at 1 MHz <b>CAPACITANCE CONDUCTOR TO CONDUCTOR</b> 20 pF/ft. (maximum) <b>VELOCITY OF PROPAGATION</b> 74% (nominal) <b>ATTENUATION</b> 10 dB/100 ft. (nominal) at 100 MHz	
		<b>ADDITIONAL REQUIREMENTS</b>	
<b>CONDUCTORS</b> AWG 24, 19 Strands of AWG 36, Silver-Coated Copper		<b>ELECTRICAL</b> <b>CONDUCTOR RESISTANCE</b> 23.0 ohms/1000 ft. (nominal) (prior to cabling) <b>INSULATION RESISTANCE</b> 10,000 megohms (minimum) for 1000 ft. <b>JACKET FLAWS</b> <b>SPARK TEST</b> 1.0 kV (rms) <b>IMPULSE TEST</b> 6.0 kV (peak) <b>VOLTAGE WITHSTAND (DIELECTRIC)</b> 1000 volts (rms) (minimum)	
<b>DIELECTRICS</b> Foamed FEP Colors - Light Blue/White		<b>ENVIRONMENTAL</b> <b>FLAMMABILITY</b> Method B <b>HEAT SHOCK</b> 225°C <b>LOW TEMPERATURE-COLD BEND</b> -55°C/3.75 inch mandrel <b>UV LASER MARKING</b> (Per SAE AS4373, Method 1001) <b>SOLID LASER</b> 67% (minimum) <b>DOT MATRIX LASER</b> 60% (minimum) <b>VOLTAGE WITHSTAND</b> (Post Environmental) 1000 volts (rms), 1 minute	
<b>SHIELD</b> AWG 38, Silver-Coated Copper		<b>PHYSICAL</b> <b>INSULATION (DIELECTRIC)</b> (prior to cabling) <b>ELONGATION</b> 50% (minimum) <b>TENSILE STRENGTH</b> 600 lbf/in <sup>2</sup> (minimum) <b>JACKET</b> <b>ELONGATION</b> 200% (minimum) <b>TENSILE STRENGTH</b> 2000 lbf/in <sup>2</sup> (minimum) <b>JACKET THICKNESS</b> .012 inch (nominal) <b>SHIELD COVERAGE</b> 90% (minimum)	
<b>JACKET</b> Modified FEP		<b>WEIGHT</b> 14.2 lbs/1000 ft. (nominal)	
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.		<b>ENGINEERING REFERENCE</b>	
A white laser markable outer jacket will be designated by a "-9LM" appended to the part number, e.g. 7824E0422-9LM.		<b>TEMPERATURE RATING</b> 200°C (maximum)	
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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