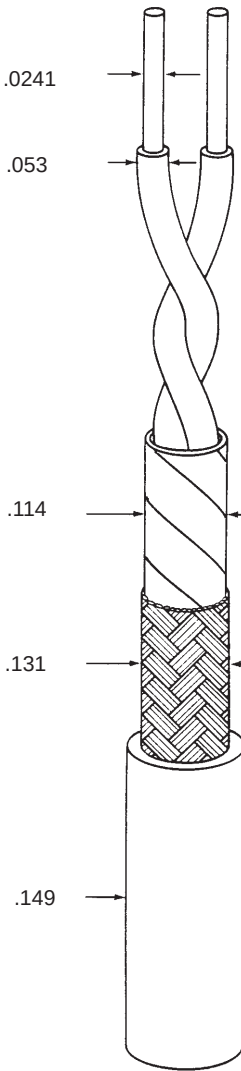


SPECIFICATION CONTROL DRAWING			0024C8422
CHEMINAX	100 OHM, AWG 24, 7 STRANDS OF AWG 32, TWINAXIAL CABLE	Date	1-4-08
		Revision	A
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.			
CONSTRUCTION DETAILS		ELECTRICAL CHARACTERISTICS	
DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.  CONDUCTORS AWG 24, 7 Strands of AWG 32, Silver-Coated Copper DIELECTRICS Rayfoam H Colors - White/Light Blue WRAP Aluminum Polyester SHIELD AWG 38, Silver-Coated Copper JACKET Modified FEP		CHARACTERISTIC IMPEDANCE 100 ± 15 ohms from 1 MHz to 100 MHz per TIA 568	
		MUTUAL CAPACITANCE 13.0 pF/ft. at 1 KHz (nominal)	
		VELOCITY OF PROPAGATION 76% (nominal)	
		ADDITIONAL ELECTRICAL REQUIREMENTS ON PAGE 2	
ADDITIONAL REQUIREMENTS			
ELECTRICAL			
		CONDUCTOR RESISTANCE 23.9 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/4.00 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 200% (minimum)	
		TENSILE STRENGTH 2000 lbf/in ² (minimum)	
		JACKET THICKNESS .009 inch (nominal)	
		SHIELD COVERAGE 95% (minimum)	
		WRAP .002 inch thick (nominal) 25% overlap (minimum) Aluminum side facing out	
Outer jacket color will be translucent white (designated by a "9X" appended to the part number, e.g. 0024C8422-9X) unless otherwise specified.		WEIGHT 17.6 lbs/1000 ft. (nominal)	
Designate outer jacket color with a dash number in accordance with MIL-STD-681. 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 also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.			
The TE logo, Tyco Electronics, Cheminax, Raychem and Rayfoam are trademarks.			



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THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

TABLE I. ELECTRICAL PARAMETERS			
Frequency (MHz)	Insertion Loss dB/100m (maximum)	Return Loss dB/100m (minimum)	Propagation Delay ns/100m max
1.0	2.4	20.0	570
4.0	4.9	23.0	552
8.0	6.9	24.5	547
10.0	7.8	25.0	545
16.0	9.9	25.0	543
20.0	11.1	25.0	542
25.0	12.5	24.2	541
31.25	14.1	23.3	540
62.5	20.4	20.7	539
100.0	26.4	19.0	538

Note: Values are for reference only. Actual values shall be determined utilizing the formulas in ANSI/TIA-568-B.2.