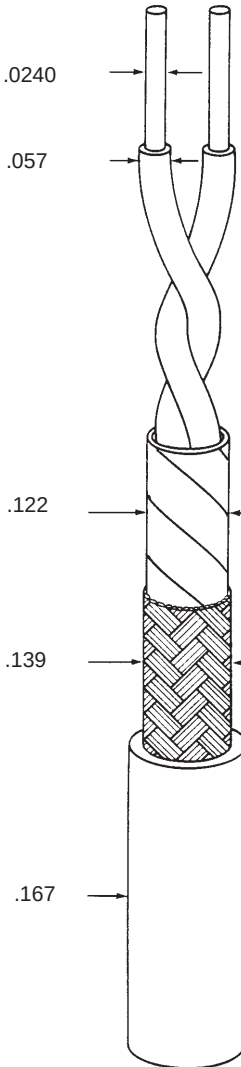


SPECIFICATION CONTROL DRAWING			0024B0311
CHEMINAX	100 OHM, AWG 24, 7 STRANDS OF AWG 32, TWINAXIAL CABLE	Date	4-5-10
		Revision	D
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.			
CONSTRUCTION DETAILS		ELECTRICAL CHARACTERISTICS	
DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.  CONDUCTORS AWG 24, 7 Strands of AWG 32, Tin-Coated Copper DIELECTRICS Rayfoam L Colors - White/Tan WRAP Aluminum Polyester SHIELD AWG 38, Tin-Coated Copper JACKET Thermorad S		CHARACTERISTIC IMPEDANCE 100 ± 15 ohms, Method D at 1 - 100 MHz	
		MUTUAL CAPACITANCE 13.6 pF/ft. (nominal)	
		VELOCITY OF PROPAGATION 76% (nominal)	
		ADDITIONAL ELECTRICAL REQUIREMENTS ON PAGE 2	
ADDITIONAL REQUIREMENTS			
<u>ELECTRICAL</u>			
		CONDUCTOR RESISTANCE 26.2 ohms/1000 ft. (nominal)	
		INSULATION RESISTANCE 10,000 megohms (minimum) for 1000 ft.	
		JACKET FLAWS	
		SPARK TEST 1.0 kV (rms)	
		IMPULSE TEST 6.0 kV (peak)	
		VOLTAGE WITHSTAND (DIELECTRIC) 1000 volts (rms) (minimum)	
<u>ENVIRONMENTAL</u>			
		FLAMMABILITY Method C	
		HEAT SHOCK 225°C	
		LOW TEMPERATURE-COLD BEND -55°C/4.50 inch mandrel	
		VOLTAGE WITHSTAND (Post Environmental) 1000 volts (rms),1 minute	
<u>PHYSICAL</u>			
		INSULATION (DIELECTRIC) (Prior to Cabling)	
		ELONGATION 50% (minimum)	
		TENSILE STRENGTH 1000 lbf/in ² (minimum)	
		JACKET	
		ELONGATION 200% (minimum)	
		TENSILE STRENGTH 2000 lbf/in ² (minimum)	
		JACKET THICKNESS .014 inch (nominal)	
		SHIELD COVERAGE 90% (minimum)	
		WRAP .0020 inch thick (nominal) 25% overlap (minimum) Aluminum facing out	
Outer jacket color will be white (designated by a “-9” appended to the part number, e.g. 0024B0311-9) unless otherwise specified.			
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.			
		WEIGHT 16.2 lbs/1000 ft. (nominal)	
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, Rayfoam and Thermorad 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)
1.0	2.4	20.0
4.0	4.9	23.0
8.0	6.9	24.5
10.0	7.8	25.0
16.0	9.9	25.0
20.0	11.1	25.0
25.0	12.5	24.2
31.25	14.1	23.3
62.5	20.4	20.7
100.0	26.4	19.0

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