

SPECIFICATION CONTROL DRAWING

0024F4424

CHEMINAX

100 OHM, AWG 24, 19 STRANDS OF AWG 36, TWINAXIAL CABLE

Date

5-1-13

Revision

C

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	100 ± 10 ohms, Method D, 1 to 100 MHz
MUTUAL CAPACITANCE	13.4 pF/ft. (nominal)
VELOCITY OF PROPAGATION	78% (nominal)

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE (prior to cabling)	28.1 ohms/1000 ft. (maximum)
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)	1500 volts (rms) (minimum)

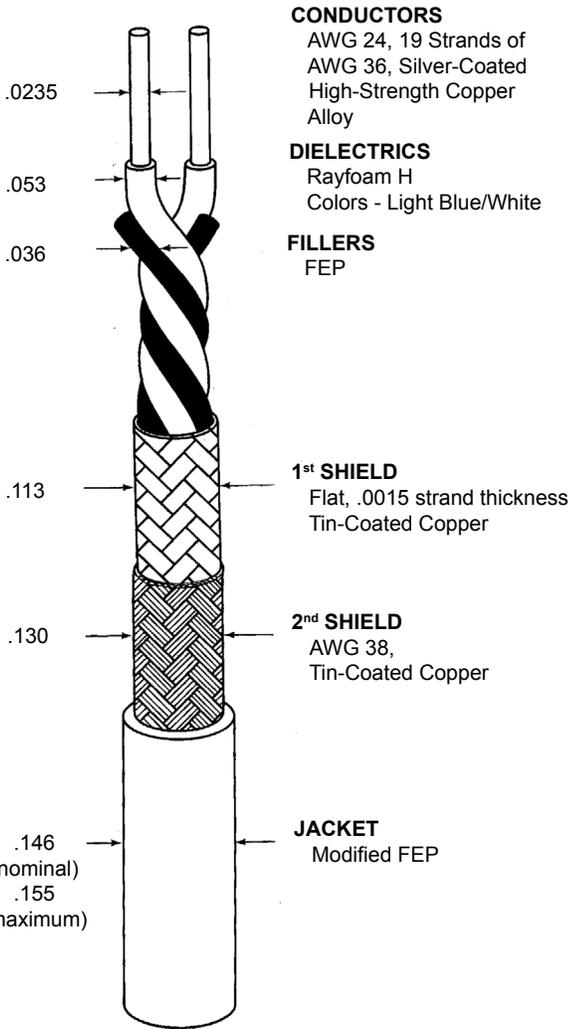
ENVIRONMENTAL

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	.008 inch (nominal)
SHIELD COVERAGE	92% (minimum) (1 st shield) 85% (minimum) (2 nd shield)

WEIGHT 21.3 lbs/1000 ft. (maximum)



Outer jacket color will be translucent blue (designated by a "-6X" appended to the part number, e.g. 0024F4424-6X) 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.

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.



TABLE I. ELECTRICAL PARAMETERS		
FREQUENCY (MHz)	INSERTION LOSS dB/100m (maximum)	RETURN LOSS dB/100m (minimum)
1.0	2.7	20.0
4.0	5.6	23.0
8.0	7.9	24.5
10.0	8.9	25.0
16.0	11.2	25.0
20.0	12.7	25.0
25.0	14.2	24.2
31.25	16.0	23.3
62.5	23.3	20.7
100.0	30.1	19.0

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