

SPECIFICATION CONTROL DRAWING

0024B0311

CHEMINAX

100 OHM, AWG 24, 7 STRANDS OF AWG 32, TWINAXIAL CABLE

Date 4-5-10

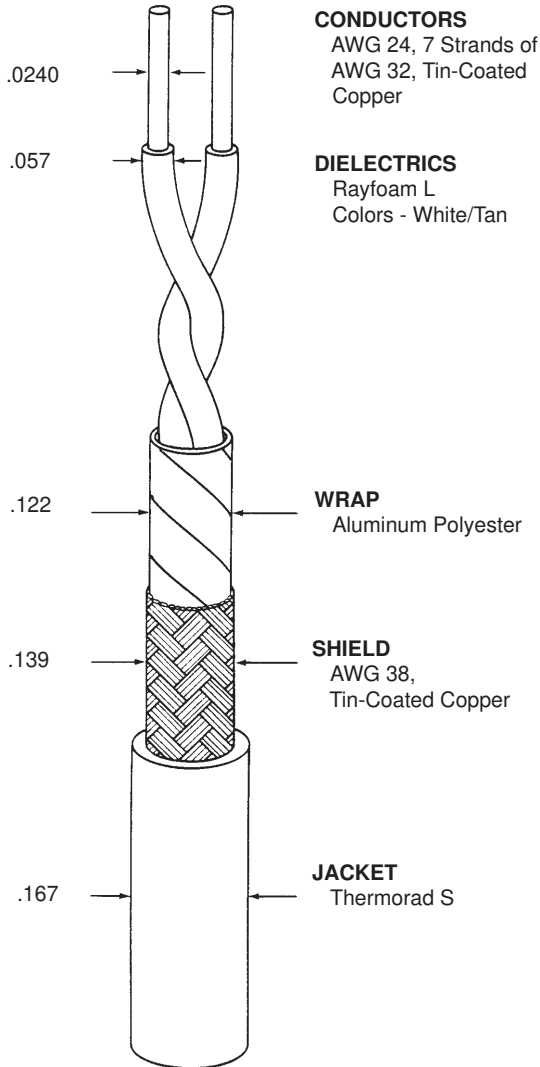
Revision D

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

ELECTRICAL

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)

ENVIRONMENTAL

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

PHYSICAL

INSULATION (DIELECTRIC) (Prior to Cabling)
ELONGATION 50% (minimum)
TENSILE STRENGTH 1000 lbf/in² (minimum)
JACKET
ELONGATION 200% (minimum)
TENSILE STRENGTH 2000 lbf/in² (minimum)
JACKET THICKNESS .014 inch (nominal)
SHIELD COVERAGE 90% (minimum)
WRAP .0020 inch thick (nominal)
25% overlap (minimum)
Aluminum facing out

WEIGHT 16.2 lbs/1000 ft. (nominal)

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.

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.

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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.