

**SPECIFICATION CONTROL DRAWING**

**0024J0024**

**CHEMINAX**

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

Date: 5-25-16  
Revision: D

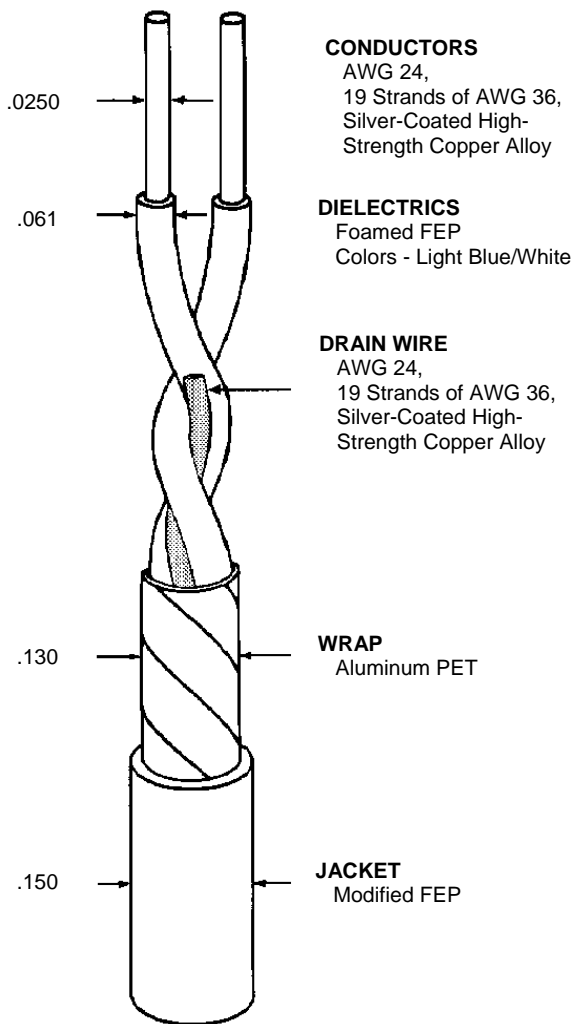
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

**CONSTRUCTION DETAILS**

**ELECTRICAL CHARACTERISTICS**

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

CHARACTERISTIC IMPEDANCE	100 ohms (nominal), Method C at 1 MHz
MUTUAL CAPACITANCE	12.5 pF/ft. (nominal)
VELOCITY OF PROPAGATION	79% (nominal)
ATTENUATION	2.3 dB/100 ft. (nominal) at 10 MHz



**CONDUCTORS**  
AWG 24,  
19 Strands of AWG 36,  
Silver-Coated High-  
Strength Copper Alloy

**DIELECTRICS**  
Foamed FEP  
Colors - Light Blue/White

**DRAIN WIRE**  
AWG 24,  
19 Strands of AWG 36,  
Silver-Coated High-  
Strength Copper Alloy

**WRAP**  
Aluminum PET

**JACKET**  
Modified FEP

**ADDITIONAL REQUIREMENTS**

<b>ELECTRICAL</b>	
CONDUCTOR RESISTANCE (prior to cabling)	26.5 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)	1500 volts (rms)

<b>ENVIRONMENTAL</b>	
FLAMMABILITY	Method B
HEAT SHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/4.25 inch mandrel
VOLTAGE WITHSTAND (Post Environmental)	1000 volts (rms), 1 minute

<b>PHYSICAL</b>	
INSULATION (DIELECTRIC) (prior to cabling)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	600 lbf/in <sup>2</sup> (minimum)
JACKET	
ELONGATION	200% (minimum)
TENSILE STRENGTH	2000 lbf/in <sup>2</sup> (minimum)
JACKET THICKNESS	.010 inch (nominal)
WRAP	.002 inch thick (nominal), 25% overlap (minimum), Aluminum side facing in

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. 0024J0024-9X). Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

WEIGHT	13.1 lbs/1000 ft. (nominal)
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<b>ENGINEERING REFERENCE</b>	
TEMPERATURE RATING	150°C (maximum)

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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