

SPECIFICATION CONTROL DRAWING

2024V8424

CHEMINAX

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

Date: 4-5-19
Revision: B

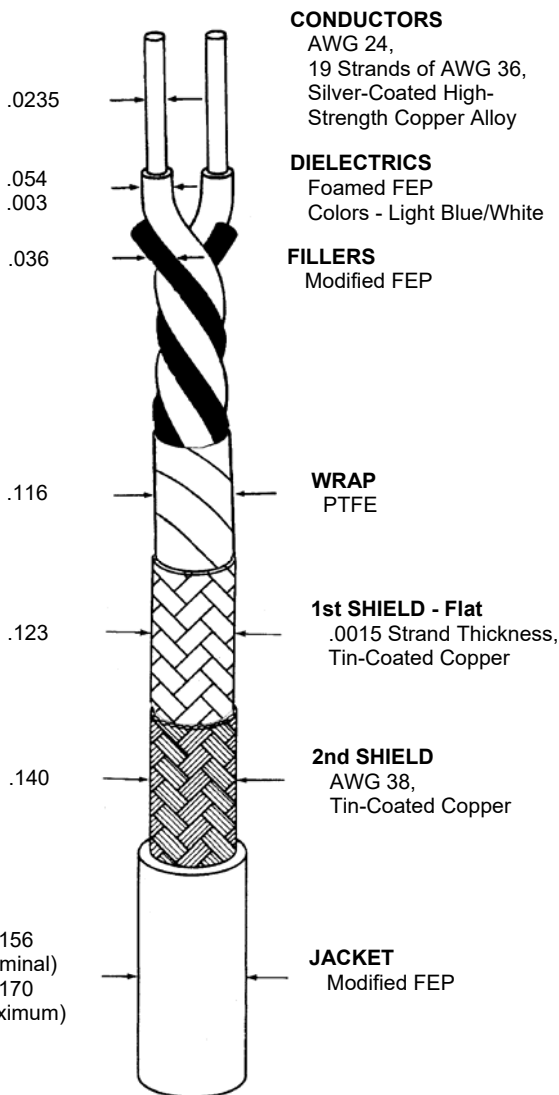
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

CHARACTERISTIC IMPEDANCE	120 ± 12 ohms, Method D at 1 MHz with shield grounded
MUTUAL CAPACITANCE	12.7 pF/ft. (nominal)
VELOCITY OF PROPAGATION	77% (nominal)
ATTENUATION	1.0 dB/100 ft. (maximum) at 1 MHz 2.0 dB/100 ft. (maximum) at 6 MHz 2.7 dB/100 ft. (maximum) at 10 MHz 7.4 dB/100 ft. (maximum) at 100 MHz



ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE (prior to cabling)	27.8 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 B
HEAT SHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/4.25 inch mandrel
UV LASER MARK CONTRAST	For 2024V8424-9LM only:
FULL MASK LASER	67% (minimum)
DOT MATRIX LASER	60% (minimum)
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	
1st SHIELD	92% (minimum)
2nd SHIELD	85% (minimum)
WRAP	.002 inch thick (nominal), 25% overlap (minimum)

WEIGHT	22.3 lbs/1000 ft. (maximum)
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ENGINEERING REFERENCE

TEMPERATURE RATING	150°C (maximum)
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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. 2024V8424-9X.

A white laser markable outer jacket will be designated by a "-9LM" appended to the part number, e.g. 2024V8424-9LM.

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. TE Connectivity also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

