

SPECIFICATION CONTROL DRAWING

2022H4424

CHEMINAX

120 OHM, AWG 22, 19 STRANDS OF AWG 34,
TWINAXIAL CABLE

Date: 4-5-19
Revision: F

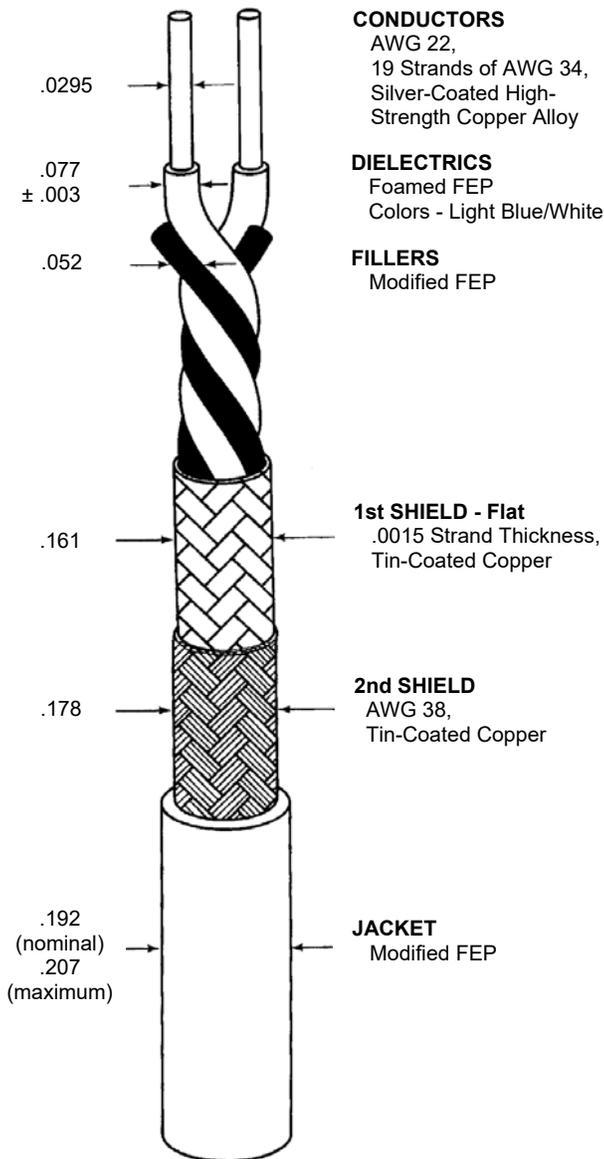
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

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) 18.2 (maximum)
VELOCITY OF PROPAGATION	77% (nominal)
ATTENUATION	0.8 dB/100 ft. (maximum) at 1 MHz 1.7 dB/100 ft. (maximum) at 6 MHz 2.2 dB/100 ft. (maximum) at 10 MHz 6.1 dB/100 ft. (maximum) at 100 MHz



CONDUCTORS
AWG 22,
19 Strands of AWG 34,
Silver-Coated High-
Strength Copper Alloy

DIELECTRICS
Foamed FEP
Colors - Light Blue/White

FILLERS
Modified FEP

1st SHIELD - Flat
.0015 Strand Thickness,
Tin-Coated Copper

2nd SHIELD
AWG 38,
Tin-Coated Copper

JACKET
Modified FEP

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE (prior to cabling)	17.3 ohms/1000 ft. (nominal)
INSULATION RESISTANCE	10,000 megohms (minimum) for 1000 ft.
JACKET FLAWS SPARK TEST IMPULSE TEST	1.0 kV (rms) 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/5.50 inch mandrel
UV LASER MARK CONTRAST FULL MASK LASER DOT MATRIX LASER	For 2022H4424-9LM only: 67% (minimum) 60% (minimum)
VOLTAGE WITHSTAND (Post Environmental)	1000 volts (rms), 1 minute

PHYSICAL

INSULATION (DIELECTRIC) (prior to cabling) ELONGATION TENSILE STRENGTH	50% (minimum) 600 lbf/in ² (minimum)
JACKET ELONGATION TENSILE STRENGTH	200% (minimum) 2000 lbf/in ² (minimum)
JACKET THICKNESS	.007 inch (nominal)

SHIELD COVERAGE 1st SHIELD 2nd SHIELD	92% (minimum) 85% (minimum)
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WEIGHT	31.7 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. 2022H4424-9X.

A white laser markable outer jacket will be designated by a "-9LM" appended to the part number, e.g. 2022H4424-9LM.

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.

