#### SPECIFICATION CONTROL DRAWING

**CHEMINAX** 

.077

.052

.161

.178

.192

(nominal)

.207 (maximum)

± .003

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

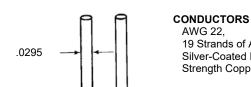
Date: Revision:

2022H4424

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

#### CONSTRUCTION DETAILS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.



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** 

Modified FEP

**JACKET** 

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.

#### **ELECTRICAL CHARACTERISTICS**

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

#### ADDITIONAL REQUIREMENTS

#### **ELECTRICAL**

CONDUCTOR RESISTANCE 17.3 ohms/1000 ft. (nominal)

(prior to cabling)

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/5.50 inch mandrel UV LASER MARK CONTRAST For 2022H4424-9LM only: **FULL MASK LASER** 67% (minimum) DOT MATRIX LASER 60% (minimum)

VOLTAGE WITHSTAND 1000 volts (rms), 1 minute

(Post Environmental)

#### **PHYSICAL**

INSULATION (DIELECTRIC)

(prior to cabling)

**ELONGATION** 50% (minimum) TENSILE STRENGTH 600 lbf/in2 (minimum)

JACKET

**ELONGATION** 200% (minimum) TENSILE STRENGTH 2000 lbf/in2 (minimum) JACKET THICKNESS .007 inch (nominal)

SHIELD COVERAGE

1st SHIELD 92% (minimum) 2nd SHIELD 85% (minimum)

WEIGHT 31.7 lbs/1000 ft. (maximum)

#### **ENGINEERING REFERENCE**

TEMPERATURE RATING 150°C (maximum)

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.

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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.

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