# SPECIFICATION CONTROL DRAWING

**CHEMINAX** 

.0375

.098

.066

.203

.220

.240

(nominal)

.251

(maximum)

± .003

120 OHM, AWG 20, 19 STRANDS OF AWG 32, TWINAXIAL CABLE

Date: В Revision:

2020B4424

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

## **CONSTRUCTION DETAILS**

# **ELECTRICAL CHARACTERISTICS**

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** 

0.7 dB/100 ft. (maximum) at 1 MHz 1.4 dB/100 ft. (maximum) at 6 MHz

1.7 dB/100 ft. (maximum) at 10 MHz 4.9 dB/100 ft. (maximum) at 100 MHz

## **DIELECTRICS**

CONDUCTORS AWG 20,

Foamed FEP Colors - Light Blue/White

19 Strands of AWG 32,

Silver-Coated High-Strength Copper Alloy

Radiation-Crosslinked, Modified ETFE

1st SHIELD - Flat

2nd SHIELD AWG 38,

**JACKET** 

Modified FEP

.0015 Strand Thickness,

**Tin-Coated Copper** 

**Tin-Coated Copper** 

# **ADDITIONAL REQUIREMENTS**

## **ELECTRICAL**

CONDUCTOR RESISTANCE

10.6 ohms/1000 ft. (nominal)

(prior to cabling)

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/7.00 inch mandrel UV LASER MARK CONTRAST For 2020B4424-9LM only: **FULL MASK LASER** 67% (minimum)

DOT MATRIX LASER 60% (minimum)

**VOLTAGE WITHSTAND** (Post Environmental)

1000 volts (rms), 1 minute

200% (minimum)

2000 lbf/in<sup>2</sup> (minimum)

## **PHYSICAL**

INSULATION (DIELECTRIC)

(prior to cabling)

**ELONGATION** 50% (minimum) TENSILE STRENGTH 600 lbf/in<sup>2</sup> (minimum)

**JACKET** 

**ELONGATION** TENSILE STRENGTH

JACKET THICKNESS .010 inch (nominal)

SHIELD COVERAGE

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

WEIGHT 42.4 lbs/1000 ft. (maximum)

### **ENGINEERING REFERENCE**

TEMPERATURE RATING 150°C (maximum)

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

501 Oakside Avenue

Redwood City, California 94063-3800 Phone: 1-800-522-6752 Fax: 1-650-361-6297

Designate outer jacket color with a dash number in accordance

will be translucent white designated by a "-9X" appended to the

A white laser markable outer jacket will be designated by a

"-9LM" appended to the part number, e.g. 2020B4424-9LM.

with MIL-STD-681. Unless otherwise specified, outer jacket color

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



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part number, e.g. 2020B4424-9X.

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