SPECIFICATION CONTROL DRAWING

6-10-13 Date

2020F8421

CHEMINAX

DESIGNATED

.0400

.112

.245

.253

274

.298

otherwise specified.

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

С Revision

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

CONSTRUCTION DETAILS DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE

ELECTRICAL CHARACTERISTICS

120 ± 12 ohms, Method D at 1 MHz

(with shield grounded)

MUTUAL CAPACITANCE 10.5 pF/ft. (nominal) VELOCITY OF PROPAGATION 78% (nominal)

SURFACE TRANSFER IMPEDANCE 20 milliohms/meter (maximum)

at 100 kHz to 20 MHz (Per MIL-DTL-85485)

CONDUCTORS AWG 20, 19 Strands of

AWG 32, Tin-Coated Copper

DIELECTRICS

1st SHIELD

WRAP

AWG 36.

PET Tape

2nd SHIELD AWG 36,

JACKET

Outer jacket color will be translucent white (designated by a "-9X" appended to the part number, e.g. 2020F8421-9X) unless

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Other codes and suffixes may be added to the part number, as necessary, to capture any additional

Modified FEP

Tin-Coated Copper

Tin-Coated Copper Optimized

Rayfoam H Colors - White/Light Blue

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE

CHARACTERISTIC IMPEDANCE

(prior to cabling)

INSULATION RESISTANCE

10,000 megohms (minimum)

9.53 ohms/1000 ft. (nominal)

for 1000 ft.

JACKET FLAWS

SPARK TEST 1.0 kV (rms) **IMPULSE TEST** 6.0 kV (peak)

VOLTAGE WITHSTAND

CONDUCTOR TO SHIELD

1000 volts (rms) (minimum)

ENVIRONMENTAL

FLAMMABILITY Method B 225°C **HEAT SHOCK**

LOW TEMPERATURE-COLD BEND -55°C/8.00 inch mandrel

VOLTAGE WITHSTAND (Post Environmental)

1000 volts (rms), 1 minute

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 .012 inch (nominal) 2nd SHIELD COVERAGE 85% (minimum)

WRAP

.002 inch thick (nominal),

25% overlap (minimum)

WEIGHT 60.4 lbs/1000 ft. (nominal)

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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requirements imposed by the purchase order.