## SPECIFICATION CONTROL DRAWING

**CHEMINAX** 

.0890

.234

.255

.276

.296

50 OHM, AWG 12, 7 STRANDS OF .0296, COAXIAL CABLE

Date: Revision:

5012M3612

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.

**ELECTRICAL CHARACTERISTICS** 

CHARACTERISTIC IMPEDANCE 50 ± 2 ohms, Method A

**CAPACITANCE** 25.0 pF/ft. (minimum), 30.0 pF/ft. (maximum)

**VELOCITY OF PROPAGATION** 78% (nominal)

3 dB/100 ft. (maximum) at 100 MHz **ATTENUATION** 

**ADDITIONAL REQUIREMENTS** 

6 dB/100 ft. (maximum) at 400 MHz 10 dB/100 ft. (maximum) at 1 GHz 20 dB/100 ft. (maximum) at 3 GHz

1.76 ohms/1000 ft. (nominal)

10,000 megohms (minimum)

for 1000 ft.

1.0 kV (rms)

6.0 kV (peak)

3500 volts rms)

Rayfoam L Color - Natural **ELECTRICAL** 

1st SHIELD

**DIELECTRIC** 

CONDUCTOR

AWG 12,

7 Strands of .0296. Silver-Coated Copper

> AWG 36. Silver-Coated Copper

2nd SHIELD

**JACKET** 

AWG 36.

Silver-Coated Copper

Radiation-Crosslinked,

Modified ETFE

**ENVIRONMENTAL** 

JACKET FLAWS

SPARK TEST

IMPULSE TEST

**VOLTAGE WITHSTAND** (DIELECTRIC)

CONDUCTOR RESISTANCE

INSULATION RESISTANCE

**FLAMMABILITY** FAR, Part 25 (Spec 1200, Method B)

**HEAT SHOCK** 225°C

LOW TEMPERATURE-

COLD BEND

**VOLTAGE WITHSTAND** 

(Post Environmental)

1000 volts (rms), 1 minute

-55°C/8.00 inch mandrel

**PHYSICAL** 

DIELECTRIC CONCENTRICITY

INSULATION (DIELECTRIC)

**ELONGATION** 

TENSILE STRENGTH

50% (minimum)

50% (minimum)

75% (minimum)

1000 lbf/in<sup>2</sup> (minimum)

**ELONGATION** TENSILE STRENGTH

5000 lbf/in<sup>2</sup> (minimum)

JACKET THICKNESS .010 inch (nominal)

SHIELD COVERAGE (each)

90% (minimum)

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 requirements imposed by the purchase order.

Outer jacket color will be black (designated by a "-0" appended to the part number, e.g. 5012M3612-0), unless otherwise specified.

WEIGHT

68.2 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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## >>TE Connectivity(泰科)