## SPECIFICATION CONTROL DRAWING

5016D3132

**CHEMINAX** 

(nominal)

.190

(maximum)

.208

.229

.257

±.005

50 OHM, AWG 16, 19 STRANDS OF AWG 29, COAXIAL CABLE

Date 3-5-13
Revision C

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

## CONSTRUCTION DETAILS

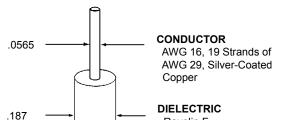
**ELECTRICAL CHARACTERISTICS** 

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.

CHARACTERISTIC IMPEDANCE  $50 \pm 2$  ohms, Method A CAPACITANCE 31.0 pF/ft. (nominal) VELOCITY OF PROPAGATION 66% (nominal)

ATTENUATION

7.0 dB/100 ft. (maximum) at 400 MHz



## ADDITIONAL REQUIREMENTS

**ELECTRICAL** 

CONDUCTOR RESISTANCE 4.41 ohms/1000 ft. (nominal)
INSULATION RESISTANCE 10,000 megohms (minimum)

for 1000 ft.

JACKET FLAWS

1.0 kV (rms) 6.0 kV (peak)

SPARK TEST IMPULSE TEST

1000 volts (rms) (minimum)

**1ST SHIELD**AWG 36,
Silver-Coated Copper

Silver-Coated Copper

Rayolin F

2ND SHIELD

AWG 36.

**JACKET** 

Color - Natural

ENVIRONMENTAL

FLAMMABILITY

Method B 225°C

HEAT SHOCK
LOW TEMPERATURE-COLD BEND

VOLTAGE WITHSTAND (DIELECTRIC)

-55°C/7.00 inch mandrel 1000 volts (rms) , 1 minute

VOLTAGE WITHSTAND (Post Environmental)

**PHYSICAL** 

INSULATION (DIELECTRIC)

ELONGATION TENSILE STRENGTH 200% (minimum) 1800 lbf/in² (minimum)

**JACKET** 

ELONGATION 200% (minimum)
TENSILE STRENGTH 4000 lbf/in² (minimum)

JACKET THICKNESS .014 inch (nominal)

SHIELD COVERAGE (EACH) 90% (minimum)

Modified PVDF

Radiation-Crosslinked

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 5016D3132-9) unless otherwise specified.

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.

WEIGHT

55.1 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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