

.0565

.133

.287

.305

(nominal)

(maximum)

100 OHM, AWG 16, RADIO FREQUENCY, 19 STRANDS OF AWG 29. TWIN CONDUCTOR CABLE Date: 10-7-05
Revision: D

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

CONDUCTORS

DIELECTRICS

Rayfoam[®] L

SHIELD

JACKET

UK ZerohalTM

AWG 36

Tin-Coated Copper

Colors - Tan / white

Copper

AWG 16, 19 Strands of AWG 29, Tin-Coated

CHARACTERISTIC IMPEDANCE 100 ± 8 ohms. Method C at 1 MHz

CAPACITANCE - MUTUAL

17.0 pF/ft. (maximum) at 1 kHz

VELOCITY OF PROPAGATION

77% (nominal) 1.32 ns/ft (nominal)

PROPAGATION DELAY

1.32 ns/ft (nominal) 1.70 ns/ft (maximum)

ATTENUATION

0.61 dB/100 ft. (nominal) at 1 MHz

2.29 dB/100 ft. (nominal) at 10 MHz 8.07 dB/100 ft. (nominal) at 100 MHz

STRUCTURAL RETURN LOSS

20 dB (nominal) - 1-20 MHz 18 dB (nominal) - 40 MHz 17 dB (nominal) - 80 MHz

16 dB (nominal) - 100 MHz

for 100 meters

STRUCTURAL RETURN LOSS

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE 4.69 ohms/1000 ft. (nominal) INSULATION RESISTANCE 10,000 megohms (minimum)

for 1000ft.

JACKET FLAWS

SPARK TEST 1.0 kV (rms)
IMPULSE TEST 6.0 kV (peak)
RESISTANCE UNBALANCE 5% (maximum)

VOLTAGE WITHSTAND

(DIELECTRIC) 1000 volts (rms) (minimum)

ENVIRONMENTAL

FLAMMABILITY Method B
HEAT SHOCK 225°C

JACKET SMOKE INDEX 25 (maximum)
(Qualification Test per MII -DTI -24640/4D)

(Qualification Testper MIL-DTL-24640/4D)

JACKET TOXICITY INDEX 5(maximum)
(Qualification Testper MIL-DTL-24640/4D)

LOW TEMPERATURE- -30°C/8.00 inch mandrel

COLD BEND

VOLTAGE WITHSTAND 1000 volts (rms), 1 minute

(POST ENVIRONMENTAL)

PHYSICAL INSULATION (DIELECTRIC)

(Prior to Cabling)

ELONGATION 50%(minimum)
TENSILE STRENGTH 1000 lbf/in²(minimum)

JACKET

ELONGATION 150% (minimum)
TENSILE STRENGTH 1200 lbf/in² (minimum)
JACKET THICKNESS .009 (nominal)
SHIELD COVERAGE 90% (minimum)

PRODUCT IDENTIFICATION: The jacket shall be marked in a contrasting color at 12 inch (nominal) intervals between marks

as follows: "RAYCHEM 0016D0811-0"

WEIGHT 43.2 lbs/1000 ft. (nominal)

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.

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



imposed by the purchase order.



Outer jacket will be black (designated by a "-0" appended to the part number, e.g., 0016D0811-0) 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