

.051

.035

.119 -

.143

100 OHM, AWG 24, 19 STRANDS OF AWG 36, TWIN CONDUCTOR CABLE, OUTER SPACE USE

Date: 07-24-06 Revision: C

100 ± 7 ohms, Method C at 1 MHz

14.5 pF/ft. (nominal) at 1 MHz

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.



CAPACITANCE - MUTUAL VELOCITY OF PROPAGATION

DIELECTRICS

Rayfoam ® L Colors - Tan / White

FILLERS Radiation-Crosslinked

Modified ETFE

SHIELD AWG 38, Silver-Coated Copper

JACKET Radiation-Crosslinked, Modified PVF₂

AWG 24, 19 Strands of

AWG 36, Silver-Coated

High Strength Copper Alloy

ADDITIONAL

CHARACTERISTIC IMPEDANCE

REQUIREMENTS

76% (nominal)

ELECTRICAL

CONDUCTOR RESISTANCE 26.5 ohms/1000 ft. (nominal) INSULATION RESISTANCE 10,000 megohms (minimum)

for 1000 ft.

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

VOLTAGE WITHSTAND

(DIELECTRIC) 1000 volts (rms)(minimum)

ENVIRONMENTAL

FLAMMABILITY Method B **HEATSHOCK** 225°C

LOW TEMPERATURE--55°C/4.00 inch mandrel COLD BEND

VOLTAGE WITHSTAND

(POST ENVIRONMENTAL) 1000 volts (rms), for 1 minute

PHYSICAL

INSULATION (DIELECTRIC)

(Prior to cabling) **ELONGATION** TENSILE STRENGTH

JACKET ELONGATION

TENSILE STRENGTH JACKET THICKNESS SHIELD COVERAGE WEIGHT

50% (minimum) 1000 lbf/in2 (minimum)

200% (minimum) 4000 lbf/in2 (minimum) .012 inch (nominal) 90% (minimum)

15.3 lbs/1000 ft. (nominal)

OUTER SPACE REQUIREMENTS

RADIATION RESISTANCE VACUUM STABILITY TOTAL MASS LOSS (TML) **VOLATILE CONDENSABLE** MATERIAL (VCM)

500 megorads / 4.25 inch mandrel

1.0% (maximum) 0.1% (maximum)

Outer jacket color will be white (designated by a "9" appended to the part number, e.g. 0024K0214-9) 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.

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.

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. 501 Oakside Avenue REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN FEFECT ON DATE OF INVITATION FOR BID.