

100 OHM, AWG 24, 19 STRANDS OF AWG 36, RADIO FREQUENCY, TWO CONDUCTOR CABLE

Date: Revision: 10-1-96 B

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.

CONDUCTOR .025 AWG 24, 19 Strands of AWG 36, Tin-Coated Copper 054 DIELECTRIC Rayfoam® H Colors - White/ 003 Light Blue **FILLERS** .035 Radiation-Crosslinked Modified ETFE SHIELD .125 AWG 38. Tin-Coated Copper JACKET .145 Modified FEP

Outer jacket color will be transparent white (designated by a "-9X" appended to the part number, e.g. 0024A0021-9X) unless otherwise specified.

..esignate outer jacket color with a dash number in accordance with MIL-STD-681.

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE

100 ± 8 ohms, Method C at 1 MHz

CAPACITANCE - MUTUAL

13.5 pF/ft. (nominal)

VELOCITY OF PROPAGATION

76% (nominal)

CAPACITANCE UNBALANCE

3% (nominal)

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE INSULATION RESISTANCE

24.8 ohms/1000 ft. (nominal) 10,000 megohms (minimum) for 1000 ft.

for 1000 f

JACKET FLAWS SPARK TEST

SPARK TEST 1.0 kV (rms), 60 Hz MPULSE TEST 6.0 kV, (peak)

VOLTAGE WITHSTAND

1000 volts (rms), (minimum)

(DIELECTRIC) LOOP RESISTANCE

60 ohms/1000 ft. (nominal)

135°C/-55°C/3.75 inch mandrel

ENVIRONMENTAL

AGING STABILITY FLAMMABILITY

Method B

HEAT SHOCK

225°C

LOW TEMPERATURE-COLD BEND -55°C/3.75 inch mandrel

PHYSICAL

INSULATION (DIELECTRIC)

(Prior to cabling)

ELONGATION TENSILE STRENGTH 50% (minimum) 600 lbf/in² (minimum)

SILE STRENGTH 600 lbf/in² (minim

JACKET

ELONGATION TENSILE STRENGTH JACKET THICKNESS SHIELD COVERAGE 200% (minimum) 2000 lbf/in² (minimum)

.010 inch (nominal) 90% (minimum)

LOOP-RESISTANCE 60 ohms/1000 ft. (nominal)

WEIGHT

17.3 lbs/1000 ft. (nominal)

Raychem

Raychem Corporation 300 Constitution Drive Menlo Park, California 94025 1-800-2 Raychem FAX: 1-415-362-6297 THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HERIN. REFERENCE DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.