CHEMINAX

.039

.003

.095

.111

.117

(nominal)

(maximum)

RADIO FREQUENCY MULTIPLEX, DATA BUS MIL-STD 1553. 75 - OHM TWIN, AWG 26

Date: 2-11-83

Revision:

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

CONSTRUCTION DETAILS

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHER-WISE DESIGNATED, METRIC UNITS SHOWN IN PARENTHESES ARE APPROXIMATE EQUIVALENTS IN MILLIMETERS AND ARE FOR INFORMATION ONLY.

CONDUCTORS AWG 26, 19 Strands of AWG 38, Silver-Coated .021 High Strength Copper Alloy

DIELECTRICS Radiation-Crosslinked Modified ETFE Light Blue/White Permittivity -2.7 (nominal)

SHIELD Tin-Coated Copper AWG 38

JACKET Radiation-Crosslinked Modified ETFE White

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE 75 ± 5 ohms, Method Cat 1 MHz

CAPACITANCE, MUTUAL 30 pF/ft (maximum)

ATTENUATION 1.5 db/100 ft. (maximum) at 1 MHz

300 ft. sample length (minimum)

ADDITIONAL REQUIREMENTS

COMPONENT WIRE PRIOR TO CABLING (Per MIL-W-22759)

ACCELERATED AGING $300 \pm 3^{\circ}C$ for 7 hours, .500 in. (Per MIL-W-22759 Life mandrel, .375 lb, Cycle Procedure) 2.5 kV dielectric test

COLD BEND -65 ± 2 °C for 4 hours, 1.00 in. mandrel, 1.00 lb.

2.5 kV dielectric test

SHRINKAGE $200 \pm 3^{\circ}C$ for 6 hours, .125 in. (maximum) in 12 in.

INSULATION RESISTANCE 5000 MΩ for 1000 ft. (minimum) TENSILE STRENGTH 5000 psi (minimum)

ELONGATION 50% (minimum)

8.0 kV (peak), 100% test IMPULSE DIELECTRIC TEST

FINISHED CABLE (Per MIL-C-27500)

BLOCKING. 200°C for 6 hours COLD BEND -65 ± 2 °C for 4 hours, 3 in.

mandre1

THERMAL SHOCK $300 \pm 5^{\circ}$ C for 6 hours, 1.25 in. mandrel

FLAMMARTI ITY 3 seconds (maximum); 3 in.

(Per Raychem Spec 55A, (maximum); no flaming of facial Procedure 1) tissue

WEIGHT

10.3 lbs/1000 ft. (maximum)

SHIELD COVERAGE 90% (minimum)

JACKET FLAWS 1000 volts, 60 Hz, 100% test VOLTAGE WITHSTAND(DIELECTRIC) 1000 volts (rms)(minimum)

WALL THICKNESS .008 inch (nominal) TENSILE STRENGTH 5000 psi (minimum) ELONGATION 50% (minimum)

Replaces EPD 5990

The length of lay shall be .75 inches (minimum) to 1.25 inches (maximum).

(1) Designate outer jacket color with a dash number in accordance with MIL-STD-681.

