

CHEMINAXRADIO FREQUENCY MULTIPLEX, DATA BUS MIL-STD-1553,
77 - OHM TWIN, AWG 24

Date: 2-11-83

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. METRIC UNITS SHOWN IN PARENTHESES ARE APPROXIMATE EQUIVALENTS IN MILLIMETERS AND ARE FOR INFORMATION ONLY.

CHARACTERISTIC IMPEDANCE	77 ± 5 ohms, Method C at 1 MHz
CAPACITANCE, MUTUAL	30 pF/ft (maximum)
ATTENUATION	1.0 db/100 ft. (nominal) at 1 MHz 1.4 db/100 ft. (maximum) at 1 MHz

ADDITIONAL REQUIREMENTSCOMPONENT WIRE PRIOR TO CABLING (Per MIL-W-22759)

ACCELERATED AGING (Per MIL-W-22759 Life Cycle Procedure)	300 ± 3°C for 7 hours, .500 in. mandrel, .375 lb 2.5 kV dielectric test
COLD BEND	-65 ± 2°C for 4 hours, .750 in. mandrel, 1.00 lb 2.5 kV dielectric test
SHRINKAGE	200 ± 3°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)
IMPULSE DIELECTRIC TEST	8.0 kV (peak), 100% test

FINISHED CABLE (Per MIL-C-27500)

BLOCKING	200°C for 6 hours
COLD BEND	-65 ± 2°C for 4 hours, 3 in. mandrel
THERMAL SHOCK	300 ± 5°C for 6 hours, 1.25 in. mandrel
FLAMMABILITY (Per Raychem Spec 55A, Procedure 1)	3 seconds (maximum); 3 in. (maximum); no flaming of facial tissue
WEIGHT	14.2 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)

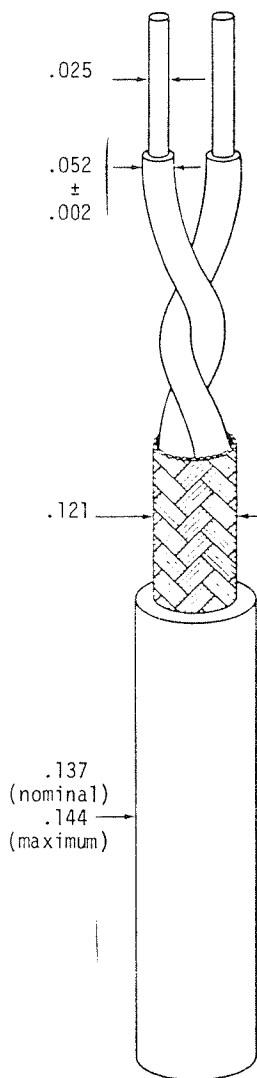
The length of lay shall be .75 inches (minimum) to 1.25 inches (maximum).

CONDUCTORS
AWG 24, 19 Strands of
AWG 36, Silver-Coated
High Strength Copper
Alloy

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

SHIELD
AWG 38, Tin-Coated
Copper

JACKET
Radiation-Crosslinked
Modified ETFE
White



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

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THIS SPECIFICATION SHEET TAKES PRECEDENCE
OVER DOCUMENTS REFERENCED HEREIN. REF-
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