

SPECIFICATION CONTROL DRAWING

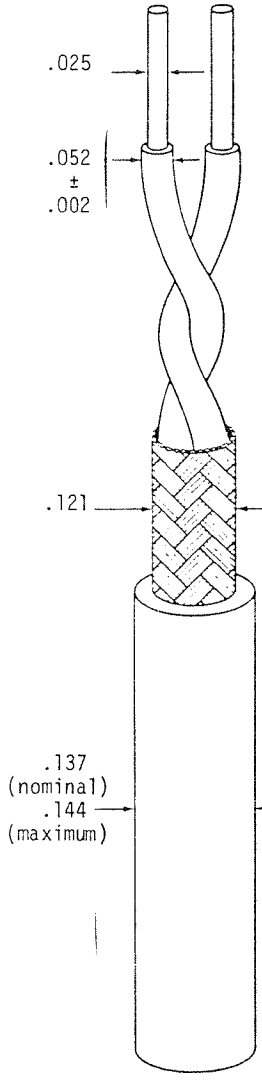
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CHEMINAX

RADIO 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						
<p style="font-size: 0.8em; margin: 0;">DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED. METRIC UNITS SHOWN IN PARENTHESES ARE APPROXIMATE EQUIVALENTS IN MILLIMETERS AND ARE FOR INFORMATION ONLY.</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 20px;"> <p>CONDUCTORS AWG 24, 19 Strands of AWG 36, Silver-Coated High Strength Copper Alloy</p> <p>DIELECTRICS Radiation-Crosslinked Modified ETFE Light Blue/White Permittivity - 2.7 (nominal)</p> <p>SHIELD AWG 38, Tin-Coated Copper</p> <p>JACKET Radiation-Crosslinked Modified ETFE White</p> </div> </div>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">CHARACTERISTIC IMPEDANCE</td> <td style="padding: 2px 5px;">77 ± 5 ohms, Method C at 1 MHz</td> </tr> <tr> <td style="padding: 2px 5px;">CAPACITANCE, MUTUAL</td> <td style="padding: 2px 5px;">30 pF/ft (maximum)</td> </tr> <tr> <td style="padding: 2px 5px;">ATTENUATION</td> <td style="padding: 2px 5px;">1.0 db/100 ft. (nominal) at 1 MHz 1.4 db/100 ft. (maximum) at 1 MHz</td> </tr> </table>	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
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 REQUIREMENTS							
<u>COMPONENT WIRE PRIOR TO CABLING (Per MIL-W-22759)</u>							
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						
<u>FINISHED CABLE (Per MIL-C-27500)</u>							
BLOCKING	200°C for 6 hours						
COLD BEND	-65 ± 2°C for 4 hours, 3 in. mandrel						
THERMAL SHOCK	300 ± 3°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).							

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

raychem

Raychem Corporation
300 Constitution Drive
Menlo Park, California 94025
415) 361 3333 TWX 910 373 1205

THIS SPECIFICATION SHEET TAKES PRECEDENCE
OVER DOCUMENTS REFERENCED HEREIN. REFERENCE DOCUMENTS SHALL BE OF THE ISSUE
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