SPECIFICATION CONTROL DRAWING 2524A0524

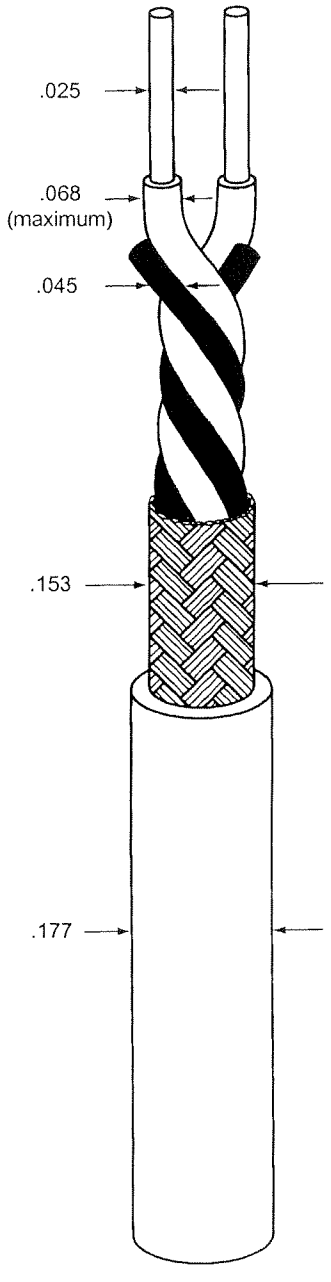
CHEMINAX 125 OHM, AWG 24, 19 STRANDS OF AWG 36, RADIO FREQUENCY, TWO CONDUCTOR CABLE

Date: 05-17-00
Revision: A

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

DIELECTRIC
Rayfoam® H
Colors - White/
Light Blue

FILLERS
Radiation-Crosslinked Modified ETFE

SHIELD
AWG 38,
Silver-Coated Copper,
Optimized

JACKET
ETFE

Outer jacket color will be transparent white (designated by a "-9" appended to the part number, e.g.2524A0524-9) unless otherwise specified.

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

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE	125 ± 15 ohms, Method C at 1 MHz
CAPACITANCE - MUTUAL	11.5 pF/ft. (nominal)
VELOCITY OF PROPAGATION	75% (nominal)
SURFACE TRANSFER IMPEDANCE	100 milliohms/meter at 30 MHz

ADDITIONAL REQUIREMENTS

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
HEAT SHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/5.00 inch mandrel
VOLTAGE WITHSTAND (POST ENVIRONMENTAL)	1000 volts (rms), 1 minute

PHYSICAL

INSULATION (DIELECTRIC) (Prior to cabling)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	600 lbf/in² (minimum)
JACKET	
ELONGATION	150% (minimum)
TENSILE STRENGTH	5000 lbf/in² (minimum)
JACKET THICKNESS	.012 inch (nominal)
SHIELD COVERAGE	90% (minimum)
WEIGHT	21.7 lbs/1000 ft. (nominal)

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