SPECIFICATION CONTROL DRAWING 5018A3022

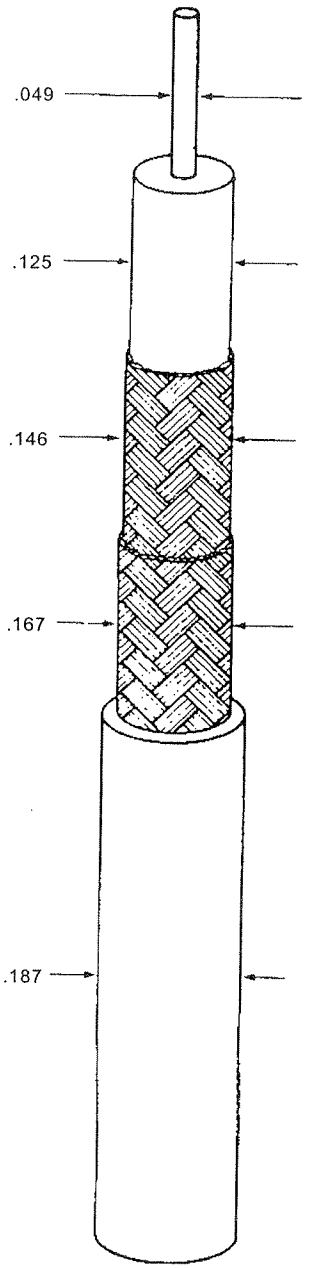
CHEMINAX 50 OHM, AWG 18, 19 STRANDS OF AWG 30, COAXIAL CABLE

Date: 09-21-00
Revision: G

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 18, 19 strands of AWG 30, Silver-Coated Copper

DIELECTRIC
Rayfoam® H
Color - White

1ST SHIELD
AWG 36,
Silver-Coated Copper

2ND SHIELD
AWG 36,
Silver-Coated Copper

JACKET
Modified FEP

Outer jacket color will be translucent white (designated by a "-9X" appended to the part number, e.g 5018A3022-9X) unless otherwise specified.

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

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE	50 ± 2 ohms, Method A
CAPACITANCE	25.0 pF/ft. (nominal)
VELOCITY OF PROPAGATION	80% (nominal)
ATTENUATION	9.2 dB/100 ft max at 400 MHz 16.5 dB/100 ft max at 1000 MHz 35.0 dB/100 ft max at 3000 MHz 51.0 dB/100 ft max at 5000 MHz

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE	5.64 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 ENVIROMENTAL)	1000 volts (rms) for 1 minute

PHYSICAL

INSULATION (DIELECTRIC)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	600 lbf/in² (minimum)
JACKET	
ELONGATION	200% (minimum)
TENSILE STRENGTH	2000 lbf/in² (minimum)
JACKET THICKNESS	.010 inch (nominal)
SHIELD COVERAGE (each)	90% (minimum)

WEIGHT	37.4 lbs/1000 ft. (nominal)

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THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCE DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.