SPECIFICATION CONTROL DRAWING **5026E1111**

CHEMINAX

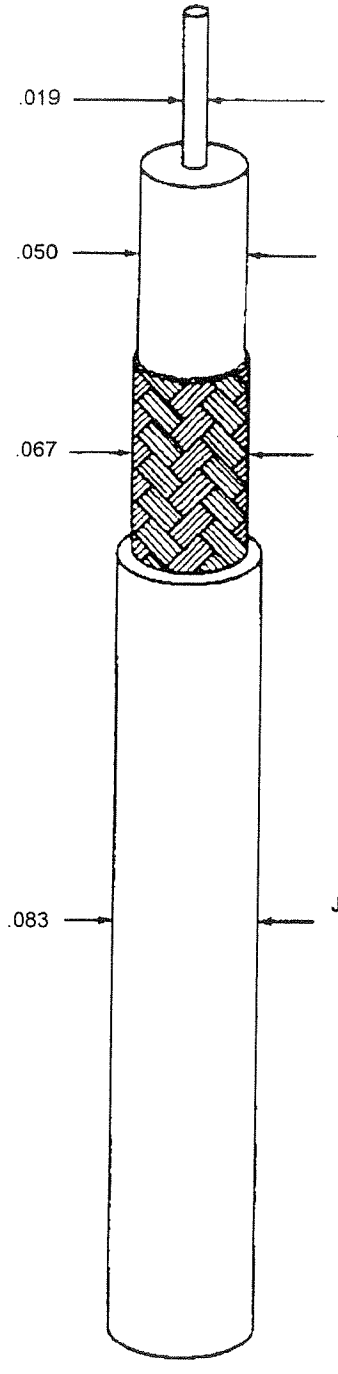
50 OHM, AWG 26, 7 STRANDS OF AWG 34, COAXIAL CABLE

Date: 11-14-97
Revision: C

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 26, 7 Strands of AWG 34, Tin-Coated Copper

DIELECTRIC
Rayfoam® L
Color - Natural

SHIELD
6 ends of AWG 38 Tin-Coated Copper Optimized

JACKET
Radiation-Crosslinked, Modified PVF_2

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g., 5026E1111-9) 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	26.4 pF/ft. (nominal)
VELOCITY OF PROPAGATION	77% (nominal)
SURFACE TRANSFER IMPEDANCE	
Maximum Zt as defined by the curve from the following points	65 milliohms/meter at .1 MHz 65 milliohms/meter at 1 MHz 50 milliohms/meter at 2.4 MHz 32 milliohms/meter at 4 MHz 250 milliohms/meter at 20 MHz

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE	42.6 ohms/1000 ft. (nominal)
INSULATION RESISTANCE	10,000 megohms (minimum) for 1000 ft.
JACKET FLAWS	
SPARK TEST	1.0 kV (rms), 60 Hz
IMPULSE TEST	6.0 kV, (peak)
PARTIAL DISCHARGE (CORONA EXTINCTION VOLTAGE)	850 volts (rms) (minimum)
VOLTAGE WITHSTAND (DIELECTRIC)	750 volts (rms) (minimum)

ENVIRONMENTAL

AGING STABILITY	135°C/-55°C/2.25 inch mandrel
FLAMMABILITY	Method C
HEAT SHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/2.25 inch mandrel
VOLTAGE WITHSTAND (POST ENVIRONMENTAL)	1000 volts (rms), 1 minute

PHYSICAL

INSULATION (DIELECTRIC)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	900 lbf/in² (minimum)
JACKET	
ELONGATION	200% (minimum)
TENSILE STRENGTH	4000 lbf/in² (minimum)
JACKET THICKNESS	.008 inch (nominal)

WEIGHT	5.9 lbs/1000 ft. (nominal)

Raychem

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