

SPECIFICATION CONTROL DRAWING

0018D0811

CHEMINAX

100 OHM, AWG 16, RADIO FREQUENCY, 19 STRANDS OF
AWG 36, TWIN CONDUCTOR CABLE

Date: 02/2/00
Revision:

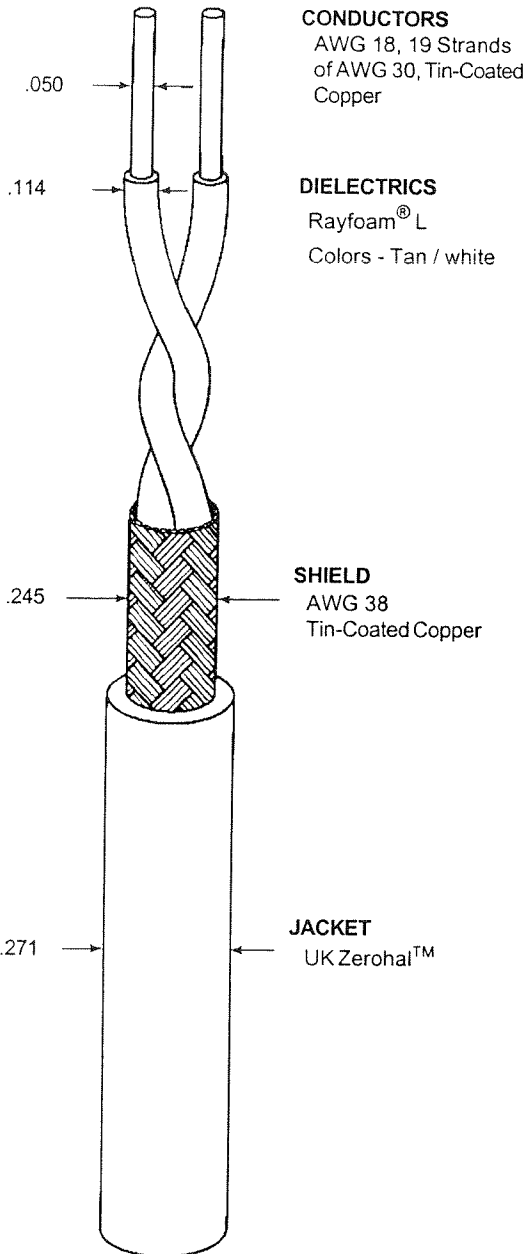
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.

CHARACTERISTIC IMPEDANCE	100 ± 15 ohms, 1 MHz - 100 MHz (per QS/3/064)
CAPACITANCE - MUTUAL	18.0 pF/ft. (nominal) at 1 kHz
VELOCITY OF PROPAGATION	77% (nominal)
STRUCTURAL RETURN LOSS	23 dB (minimum) - 1-20 MHz 20 dB (minimum) - 40 MHz 17 dB (minimum) - 80 MHz 16 dB (minimum) - 100 MHz for 100 meters



ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE	6.07 ohms/1000ft. (nominal)
INSULATION RESISTANCE	10,000 megohms (minimum) for 1000ft.
JACKET FLAWS	
SPARK TEST	1.0 kV (rms), 60 Hz
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	-30°C/8.00 inch mandrel
VOLTAGE WITHSTAND (POST ENVIRONMENTAL)	1000 volts (rms), 1 minute

PHYSICAL

INSULATION (DIELECTRIC) (Prior to Cabling)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	1000 lbf/in² (minimum)
JACKET	
ELONGATION	150% (minimum)
TENSILE STRENGTH	1200 lbf/in² (minimum)
JACKET THICKNESS	.011 inch (minimum) .013 inch (nominal)
SHIELD COVERAGE	90% (minimum)

WEIGHT 34.9 lbs/1000ft. (nominal)

Outer jacket will be black (designated by a "-0" appended to the part number, e.g., 0018D0811-0) unless otherwise specified.

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

Raychem

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