

**CHEMINAX**

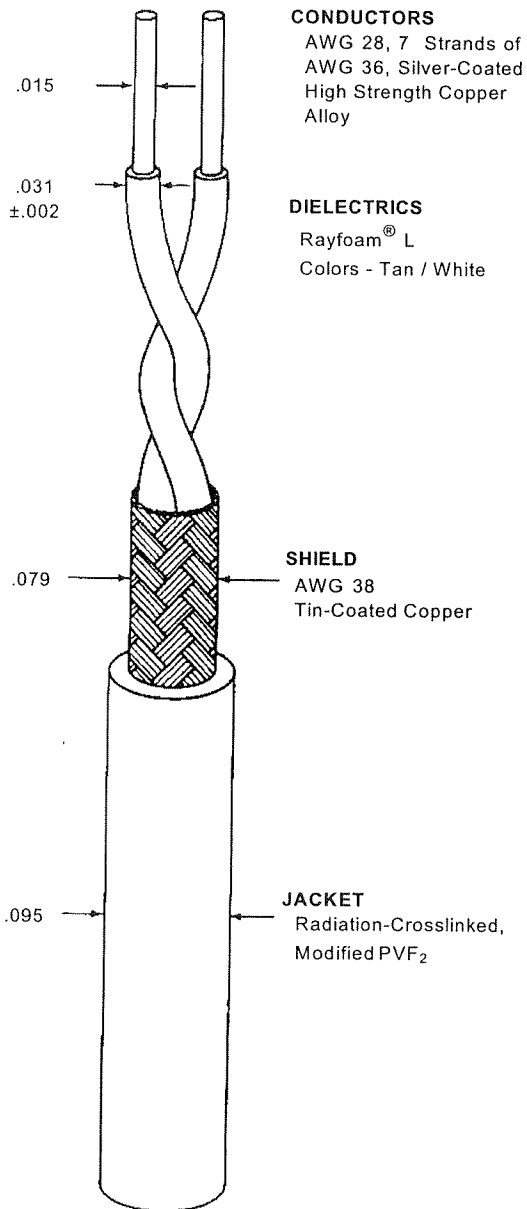
100 OHM, AWG 28, RADIO FREQUENCY,  
7 STRANDS OF AWG 36, TWIN CONDUCTOR CABLE

Date: 01-11-02  
Revision:

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.



**CONDUCTORS**  
AWG 28, 7 Strands of  
AWG 36, Silver-Coated  
High Strength Copper  
Alloy

**DIELECTRICS**  
Rayfoam<sup>®</sup> L  
Colors - Tan / White

**SHIELD**  
AWG 38  
Tin-Coated Copper

**JACKET**  
Radiation-Crosslinked,  
Modified PVF<sub>2</sub>

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC IMPEDANCE	100 ± 5 ohms, Method C at 1 MHz
CAPACITANCE - MUTUAL	14.9 pF/ft. (nominal)
VELOCITY OF PROPAGATION	73% (nominal)

**ADDITIONAL REQUIREMENTS**

**ELECTRICAL**

CONDUCTOR RESISTANCE	74.0 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/2.75 inch mandrel
VOLTAGE WITHSTAND (POST ENVIRONMENTAL)	1000 volts (rms), 1 minute

**PHYSICAL**

INSULATION (DIELECTRIC) (Prior to Cabling)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	1000 lbf/in <sup>2</sup> (minimum)
JACKET	
ELONGATION	200% (minimum)
TENSILE STRENGTH	4000 lbf/in <sup>2</sup> (minimum)
JACKET THICKNESS	.008 inch (nominal)
SHIELD COVERAGE	90% (minimum)

**WEIGHT** 6.4 lbs/1000 ft. (nominal)

Outer jacket will be white (designated by a "-9" appended to the part number, e.g., 0028G1214-9) unless otherwise specified.

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

**Raychem**

300 Constitution Drive  
Menlo Park, California 94025  
1-800-2 Raychem Fax: 1-650-361-6297

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