

**SPECIFICATION CONTROL DRAWING**

**7514A1811**

**CHEMINAX**

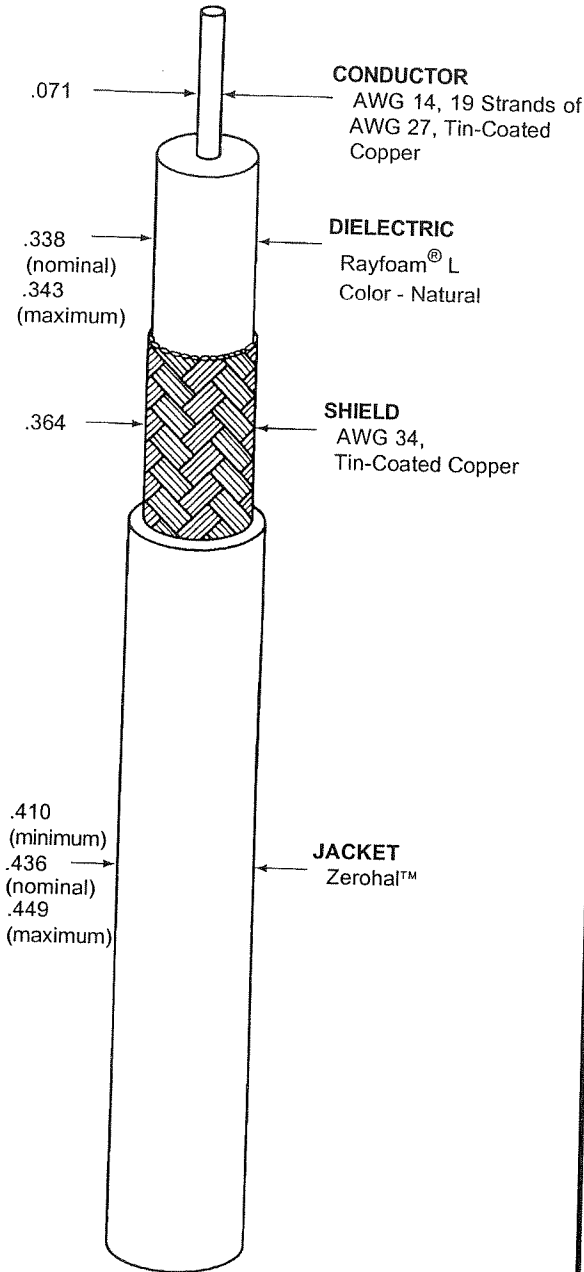
75 OHM, AWG 14, 19 STRANDS OF AWG 27,  
COAXIAL CABLE

Date: 07-05-01  
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.



**ELECTRICAL CHARACTERISTICS**

|                          |  |
|--------------------------|--|
| CHARACTERISTIC IMPEDANCE | 75 ± 3 ohms, Method B  |
| CAPACITANCE              | 17.6 pF/ft. (nominal) at 1kHz  |
| VELOCITY OF PROPAGATION  | 77% (nominal)  |
| ATTENUATION (nominal)    | .44 dB/100 ft @ 10 MHz<br>1.09 dB/100ft @ 50 MHz<br>1.65 dB/100ft @ 100 MHz<br>4.03 dB/100ft @ 400 MHz |

**ADDITIONAL REQUIREMENTS**

ELECTRICAL

|                                |                                       |
|--------------------------------|---------------------------------------|
| CONDUCTOR RESISTANCE           | 2.96 ohms/1000 ft. (nominal)          |
| INSULATION RESISTANCE          | 10,000 megohms (minimum) for 1000 ft. |
| JACKET FLAWS                   |                                       |
| SPARK TEST                     | 1.0 kV, 60 Hz (rms)                   |
| IMPULSE TEST                   | 6.0 kV (peak)                         |
| VOLTAGE WITHSTAND (DIELECTRIC) | 1000 volts (rms) (minimum)            |

ENVIRONMENTAL

|  |                                |
|--|--------------------------------|
| FLAMMABILITY                           | Method B                       |
| HEAT SHOCK                             | 225°C                          |
| LOW TEMPERATURE-<br>COLD BEND          | -30°C/12.00 inch mandrel       |
| VOLTAGE WITHSTAND (POST ENVIRONMENTAL) | 1000 volts (rms), for 1 minute |

PHYSICAL

|                         |                                    |
|-------------------------|------------------------------------|
| INSULATION (DIELECTRIC) |                                    |
| ELONGATION              | 50% (minimum)                      |
| TENSILE STRENGTH        | 1000 lbf/in <sup>2</sup> (minimum) |
| JACKET                  |                                    |
| ELONGATION              | 150% (minimum)                     |
| TENSILE STRENGTH        | 1200 lbf/in <sup>2</sup> (minimum) |
| JACKET THICKNESS        | .036 inch (nominal)                |
| SHIELD COVERAGE         | 90% (minimum)                      |

WEIGHT

92.7 lbs/1000 ft. (nominal)

Outer jacket color will be black designated by a "0" appended to the part number, e.g.7514A1811-0 unless otherwise specified.

Designate 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. REFERENCE DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.