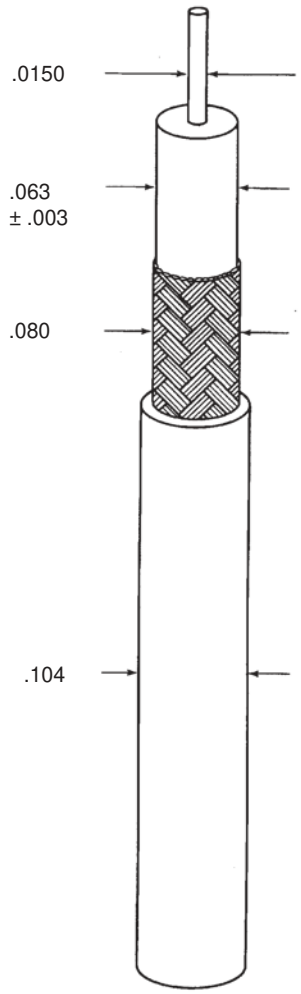
| SPECIFICATION CONTROL DRAWING | | | 7528A1814 |
|---|---|---|---|
| **CHEMINAX** | 75 OHM, AWG 28, 7 STRANDS OF AWG 36, COAXIAL CABLE | Date | 7-31-09 |
| | | Revision | D |

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

**DIELECTRIC**
Rayfoam L
Color - Natural

**SHIELD**
AWG 38,
Tin-Coated Copper

**JACKET**
Zerohal

Outer jacket color will be black (designated by a "-0" appended to the part number, e.g. 7528A1814-0) unless otherwise specified.

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| CHARACTERISTIC IMPEDANCE | 75 ± 3 ohms, Method B |
| CAPACITANCE | 17.4 pF/ft. (nominal) |
| VELOCITY OF PROPAGATION | 78% (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 C |
| HEAT SHOCK | 225°C |
| LOW TEMPERATURE-COLD BEND | -30°C/3.00 inch mandrel |
| VOLTAGE WITHSTAND (Post Environmental) | 1000 volts (rms), 1 minute |

**PHYSICAL**

| | |
|---|---|
| INSULATION (DIELECTRIC) | |
| ELONGATION | 50% (minimum) |
| TENSILE STRENGTH | 800 lbf/in$^2$ (minimum) |
| JACKET | |
| ELONGATION | 150% (minimum) |
| TENSILE STRENGTH | 1200 lbf/in$^2$ (minimum) |
| JACKET THICKNESS | .012 inch (nominal) |
| SHIELD COVERAGE | 90% (minimum) |
| WEIGHT | 7.2 lbs/1000 ft. (nominal) |



Tyco Electronics

***Raychem Wire & Cable***
*501 Oakside Avenue*
Redwood City, California 94063-3800
*1-800-227-8816 Fax: 1-650-361-6297*

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