# SPECIFICATION CONTROL DRAWING 5026D5314

**CHEMINAX**

50 OHM, AWG 26, 19 STRANDS OF AWG 38, TRIAXIAL CABLE

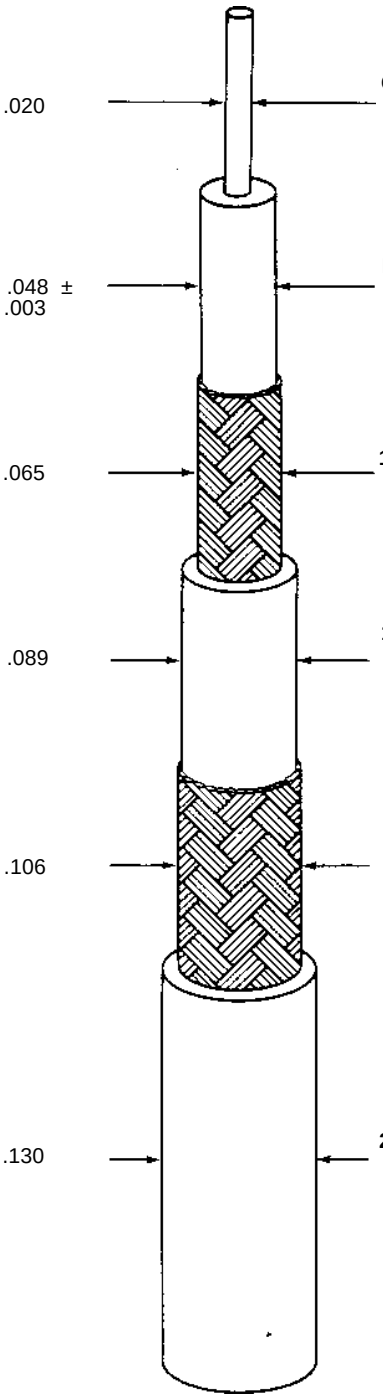
**Date:** 10-4-04

**Revision:** F

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.




Outer jacket color will be black (designated by a "-0" appended to the part number, e.g., 5026D5314-0) 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 | 50 ± 2 ohms, Method A |
| CAPACITANCE | 25.7 pF/ft. (nominal)<br>29.0 pF/ft. (maximum) |
| VELOCITY OF PROPAGATION | 77% (nominal) |
| ATTENUATION | 21.0 dB/100 ft. (maximum) at 400 MHz |

## ADDITIONAL REQUIREMENTS

**ELECTRICAL**

| | |
|---|---|
| CONDUCTOR RESISTANCE | 42.0 ohms/1000ft. (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) | |
| CONDUCTOR TO SHIELD | 1000 volts (minimum) |
| SHIELD TO SHIELD | 500 volts (minimum) |

**ENVIRONMENTAL**

| | |
|---|---|
| FLAMMABILITY | Method C |
| HEAT SHOCK | 225°C |
| LOW TEMPERATURE-COLD BEND | -55°C/3.50 inch mandrel |
| VOLTAGE WITHSTAND (POST ENVIRONMENTAL) | 1000 volts (rms), 1 minute |

**PHYSICAL**

| | |
|---|---|
| INSULATION (DIELECTRIC) | |
| ELONGATION | 50% (minimum) |
| TENSILE STRENGTH | 800 lbf/in² (minimum) |
| JACKET (EACH) | |
| ELONGATION | 200% (minimum) |
| TENSILE STRENGTH | 2000 lbf/in² (minimum) |
| JACKET THICKNESS (EACH) | .012 inch (nominal) |
| SHIELD COVERAGE (EACH) | 90% (minimum) |

| | |
|---|---|
| WEIGHT | 14.0 lbs/1000 ft. (nominal) |



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