

**CHEMINAX**50 OHM, AWG 21, 19 STRANDS OF AWG 33,  
TRIAxIAL CABLE

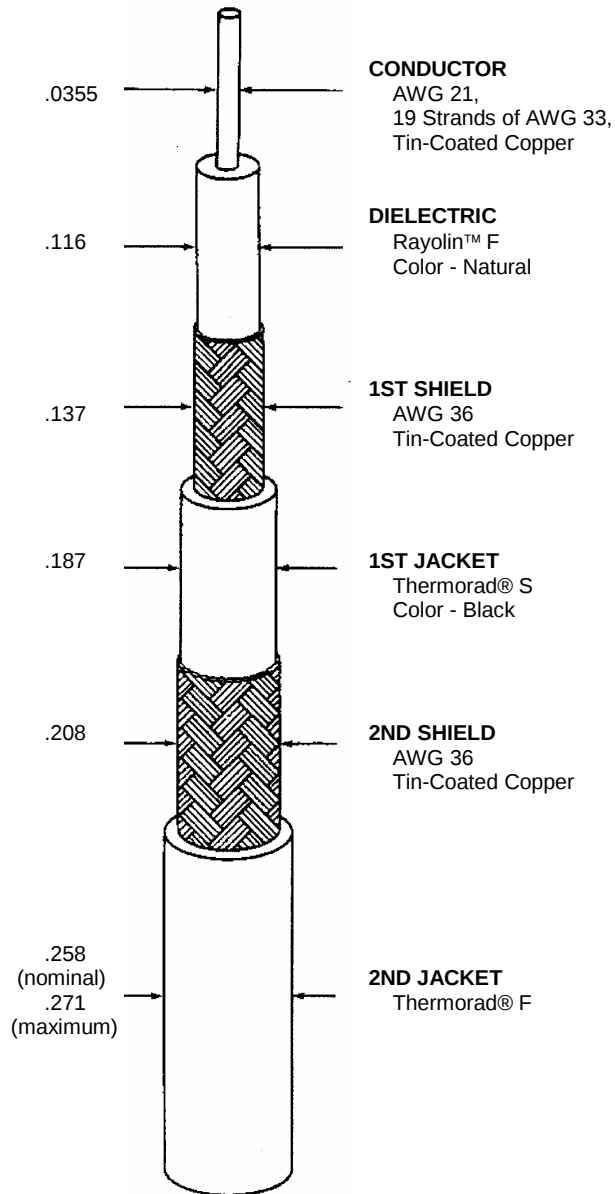
Date: 04-30-04

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.



Outer jacket color will be black (designated by a "-0" appended to the part number, e.g., 5021H5331-0) unless otherwise specified.

Designate outer jacket color with a dash 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              | 32.0 pF/ft. (nominal)<br>35.0 pF/ft. (maximum) |
| VELOCITY OF PROPAGATION  | 66% (nominal)                                  |

**ADDITIONAL REQUIREMENTS****ELECTRICAL**

|                       |                                          |
|-----------------------|------------------------------------------|
| CONDUCTOR RESISTANCE  | 11.7 ohms/1000 ft. (maximum)             |
| INSULATION RESISTANCE | 10,000 megohms (minimum)<br>for 1000 ft. |
| JACKET FLAWS          |                                          |
| SPARK TEST            | 1.0 kV (rms)                             |
| IMPULSE TEST          | 6.0 kV (peak)                            |
| VOLTAGE WITHSTAND     |                                          |
| CONDUCTOR TO SHIELD   | 1000 volts (rms) (minimum)               |
| SHIELD TO SHIELD      | 500 volts (rms) (minimum)                |

**ENVIRONMENTAL**

|                                           |                            |
|-------------------------------------------|----------------------------|
| FLAMMABILITY                              | Method C                   |
| HEAT SHOCK                                | 225°C                      |
| LOW TEMPERATURE-<br>COLD BEND             | -55°C/7.00 inch mandrel    |
| VOLTAGE WITHSTAND<br>(POST ENVIRONMENTAL) | 1000 volts (rms), 1 minute |

**PHYSICAL**

|                         |                                    |
|-------------------------|------------------------------------|
| INSULATION (DIELECTRIC) |                                    |
| ELONGATION              | 200% (minimum)                     |
| TENSILE STRENGTH        | 1800 lbf/in <sup>2</sup> (minimum) |
| 1 <sup>st</sup> JACKET  |                                    |
| ELONGATION              | 200% (minimum)                     |
| TENSILE STRENGTH        | 2000 lbf/in <sup>2</sup> (minimum) |
| 2 <sup>nd</sup> JACKET  |                                    |
| ELONGATION              | 100% (minimum)                     |
| TENSILE STRENGTH        | 2000 lbf/in <sup>2</sup> (minimum) |
| JACKET THICKNESS (EACH) | .025 inch (nominal)                |
| SHIELD COVERAGE (EACH)  | 90% (minimum)                      |

|        |                             |
|--------|-----------------------------|
| WEIGHT | 46.0 lbs/1000 ft. (nominal) |
|--------|-----------------------------|

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.

Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

**tyco**  
Electronics

**R**  
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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.