

| SPECIFICATION CONTROL DRAWING  |  | 5012A3311   |  |
|--|--|---|--|
| <b>CHEMINAX</b>  | 50 OHM, AWG 12, 37 STRANDS OF AWG 28, COAXIAL CABLE  | Date  | 3-4-13                                     |
|  |  | Revision  | E  |
| THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.   |  |   |  |
| CONSTRUCTION DETAILS   |  | ELECTRICAL CHARACTERISTICS  |  |
| DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.<br><br>   |  | CHARACTERISTIC IMPEDANCE      50 ± 2 ohms, Method A<br>CAPACITANCE                      26.0 pF/ft. (nominal)<br>VELOCITY OF PROPAGATION      78% (nominal) |  |
|  |  | ADDITIONAL REQUIREMENTS   |  |
|  |  | <u>ELECTRICAL</u>   |  |
|  |  | CONDUCTOR RESISTANCE  | 1.89 ohms/1000 ft. (nominal)               |
|  |  | INSULATION RESISTANCE   | 10,000 megohms (minimum) for 1000 ft.      |
|  |  | JACKET FLAWS  | 1.0 kV (rms)                               |
|  |  | SPARK TEST  | 6.0 kV (peak)                              |
|  |  | IMPULSE TEST  |  |
|  |  | VOLTAGE WITHSTAND (DIELECTRIC)  | 1000 volts (rms) (minimum)                 |
|  |  | <u>ENVIRONMENTAL</u>  |  |
|  |  | FLAMMABILITY  | Method C                                   |
|  |  | HEAT SHOCK  | 225°C                                      |
|  |  | LOW TEMPERATURE-COLD BEND   | -55°C/9.00 inch mandrel                    |
|  |  | VOLTAGE WITHSTAND (Post Environmental)  | 1000 volts (rms) , 1 minute                |
|  |  | <u>PHYSICAL</u>   |  |
|  |  | INSULATION (DIELECTRIC) ELONGATION  | 50% (minimum)                              |
|  |  | TENSILE STRENGTH  | 1000 lbf/in <sup>2</sup> (minimum)         |
|  |  | JACKET ELONGATION   | 100% (minimum)                             |
|  |  | TENSILE STRENGTH  | 2000 lbf/in <sup>2</sup> (minimum)         |
|  |  | JACKET THICKNESS  | .023 inch (minimum)<br>.028 inch (nominal) |
|  |  | SHIELD COVERAGE (EACH)  | 90% (minimum)                              |
|  |  | WEIGHT  | 76.9 lbs/1000 ft. (nominal)                |
| Outer jacket color will be black (designated by a "-0" appended to the part number, e.g. 5012A3311-0) 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.  |  |   |  |
| Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer. |  |   |  |
| Page 1 of 1  | Rayfoam, Thermorad, Cheminax, Raychem, TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks. |   |  |



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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.

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