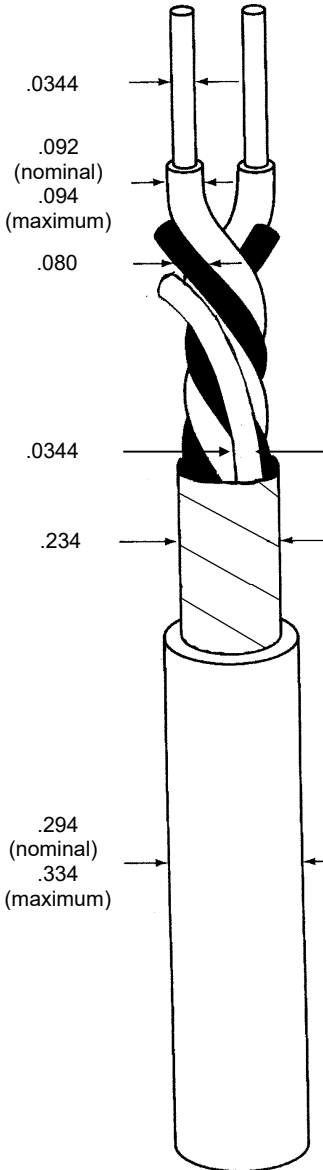


| SPECIFICATION CONTROL DRAWING | | 2021D0309 |
|--|--|--|
| CHEMINAX | 120 OHM, 0.508 mm ² , 19 STRANDS OF 0.19 mm, TWINAXIAL CABLE, J1939-11 COMPLIANT | Date: 3-7-18 Revision: K |
| THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200. | | |
| CONSTRUCTION DETAILS | | ELECTRICAL CHARACTERISTICS |
| DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.  <p>CONDUCTORS 0.508 mm², 19 Strands of 0.19 mm, Bare Copper</p> <p>DIELECTRICS Rayfoam M Colors - Yellow/Green ^{1/}</p> <p>FILLERS Polyolefin</p> <p>DRAIN WIRE 0.508 mm², 19 Strands of 0.19 mm, Bare Copper (cabled in)</p> <p>WRAP Aluminum-PET- Aluminum</p> <p>JACKET Thermorad F</p> | | <p>CHARACTERISTIC IMPEDANCE 120 ± 12 ohms, Method D at 1 MHz with wrap grounded</p> <p>MUTUAL CAPACITANCE 10.5 pF/ft. (nominal) at 1 MHz</p> <p>VELOCITY OF PROPAGATION 75% (nominal)</p> <p>SURFACE TRANSFER IMPEDANCE 225 milliohms/meter (maximum) at 0.1 to 1 MHz (per SAE AS85485)</p> |
| | | ADDITIONAL REQUIREMENTS |
| | | <p>ELECTRICAL</p> <p>CONDUCTOR RESISTANCE 11.3 ohms/1000 ft. (nominal) (prior to cabling)</p> <p>INSULATION RESISTANCE 10,000 megohms (minimum) for 1000 ft.</p> <p>JACKET FLAWS</p> <p>SPARK TEST 1.0 kV (rms)</p> <p>IMPULSE TEST 6.0 kV (peak)</p> <p>VOLTAGE WITHSTAND (DIELECTRIC) 1000 volts (rms) (minimum)</p> <p>ENVIRONMENTAL</p> <p>FLAMMABILITY Method C</p> <p>HEAT SHOCK 225°C</p> <p>LOW TEMPERATURE-COLD BEND -55°C/8.00 inch mandrel</p> <p>VOLTAGE WITHSTAND 1000 volts (rms), 1 minute (Post Environmental)</p> <p>PHYSICAL</p> <p>INSULATION (DIELECTRIC)</p> <p>ELONGATION 100% (minimum)</p> <p>TENSILE STRENGTH 1000 lbf/in² (minimum)</p> <p>JACKET</p> <p>ELONGATION 200% (minimum)</p> <p>TENSILE STRENGTH 2000 lbf/in² (minimum)</p> <p>JACKET THICKNESS .025 inch (minimum), .030 inch (nominal), .040 inch (maximum)</p> <p>WRAP .003 inch thick (nominal), 10% overlap (minimum)</p> <p>CABLE IDENTIFICATION: Outer jacket shall be marked in contrasting color at 12 inch (nominal) intervals as follows:</p> <p>for product jacketed in USA: "RAYCHEM J1939-11 0.5 mm²"</p> <p>for product jacketed in Mexico: "RAYCHEM J1939/11 0.5 mm²"</p> <p>WEIGHT 34.3 lbs/1000 ft. (nominal)</p> |
| <p>Designate outer jacket color with a dash number in accordance with MIL-STD-681. Unless otherwise specified, outer jacket color will be black designated by a "-0" appended to the part number, (e.g. 2021D0309-0).</p> <p>^{1/} Component Wire Stripe Option: Dielectrics striped red will be designated with a slash separating component wire colors, (e.g. 2021D0309-42/52-0).</p> <p>Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.</p> | | <p>ENGINEERING REFERENCE</p> <p>TEMPERATURE RATING 125°C (maximum)</p> |
| Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. TE Connectivity 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, and TE connectivity (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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