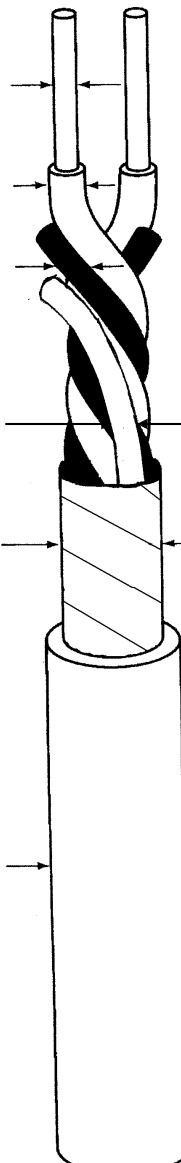


SPECIFICATION CONTROL DRAWING		2018E0309
<b>CHEMINAX</b>	120 OHM, AWG 18, 19 STRANDS OF AWG 30, TWINAXIAL CABLE, J1939-11 COMPLIANT	Date: 10-2-14 Revision: <b>E</b>
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.		
CONSTRUCTION DETAILS		ELECTRICAL CHARACTERISTICS
<p>DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.</p>  <p><b>CONDUCTORS</b> AWG 18, 19 Strands of AWG 30, Bare Copper</p> <p><b>DIELECTRICS</b> Rayfoam FS Colors - Yellow/Green</p> <p><b>FILLERS</b> Polyolefin</p> <p><b>DRAINWIRE</b> AWG 18, 19 Strands of AWG 30, Bare Copper</p> <p><b>WRAP</b> Aluminum-PET- Aluminum</p> <p><b>JACKET</b> Thermorad F</p>		<p>CHARACTERISTIC IMPEDANCE 120 ± 12 ohms, Method D at 1 MHz with shield 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</p>
		ADDITIONAL REQUIREMENTS
		<p><b>ELECTRICAL</b></p> <p>CONDUCTOR RESISTANCE 6.10 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) 1500 volts (rms)</p> <p><b>ENVIRONMENTAL</b></p> <p>FLAMMABILITY Method C</p> <p>HEAT SHOCK 225°C</p> <p>LOW TEMPERATURE-COLD BEND -55°C/11.0 inch mandrel</p> <p>VOLTAGE WITHSTAND (Post Environmental) 1000 volts (rms), 1 minute</p> <p><b>PHYSICAL</b></p> <p>INSULATION (DIELECTRIC)</p> <p>ELONGATION 100% (minimum)</p> <p>TENSILE STRENGTH 1000 lbf/in<sup>2</sup> (minimum)</p> <p>JACKET</p> <p>ELONGATION 200% (minimum)</p> <p>TENSILE STRENGTH 2000 lbf/in<sup>2</sup> (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 white ink at 12 inch (nominal) intervals as follows: "RAYCHEM J1939-11 18 AWG"</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. 2018E0309-0).</p> <p>Component Wire Stripe Option: Dielectrics striped red will be designated with a slash separating component wire colors, (e.g. 2018E0309-42/52-0).</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>WEIGHT 56.0 lbs/1000 ft. (nominal)</p>
		ENGINEERING REFERENCE
		<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. 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.		
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