

**SPECIFICATION CONTROL DRAWING**

**2018D0309**

**CHEMINAX**

120 OHM, AWG 18, 19 STRANDS OF .0092, SXL CONDUCTOR,  
TWISTED PAIR CABLE, J1939-15 COMPLIANT

Date: 10-2-14  
Revision: E

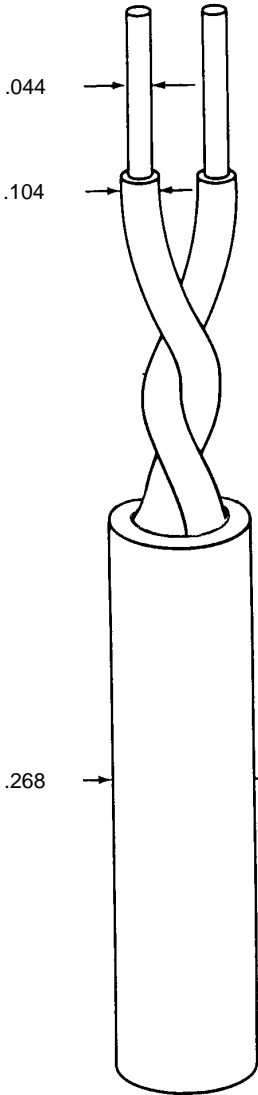
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

**CONSTRUCTION DETAILS**

**ELECTRICAL CHARACTERISTICS**

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

Components comply with SAE J1128, Type SXL.



**CONDUCTORS**  
AWG 18,  
19 Strands of .0092,  
Bare Copper

**DIELECTRICS**  
Crosslinked Polyolefin  
Colors - Yellow/Green

**JACKET**  
Thermorad F

CHARACTERISTIC IMPEDANCE	120 ± 12 ohms, Method D at 1 MHz
CAPACITANCE	12.0 pF/ft. (nominal) at 1 MHz
VELOCITY OF PROPAGATION	66% (nominal)

**ADDITIONAL REQUIREMENTS**

**ELECTRICAL**

VOLTAGE WITHSTAND (DIELECTRIC)	1500 volts (rms)
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**ENVIRONMENTAL**

FLAMMABILITY	Method C
HEAT SHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/7.00 inch mandrel

**PHYSICAL**

JACKET ELONGATION	200% (minimum)
TENSILE STRENGTH	2000 lbf/in <sup>2</sup> (minimum)
JACKET THICKNESS	.025 inch (minimum), .030 inch (nominal), .040 inch (maximum)

CABLE IDENTIFICATION: Outer jacket shall be marked in white ink at 12 inch (nominal) intervals as follows:

for product jacketed in USA: "RAYCHEM J1939-15 18 AWG"  
for product jacketed in Mexico: "RAYCHEM J1939/15 18 AWG"

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. 2018D0309-0). Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

WEIGHT	30.6 lbs/1000 ft. (nominal)
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**ENGINEERING REFERENCE**

TEMPERATURE RATING	125°C (maximum)
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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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