

**SPECIFICATION CONTROL DRAWING**

**2019E0309**

**CHEMINAX**

120 OHM, AWG 19, 19 STRANDS OF 0.23 mm,  
TWISTED PAIR CABLE, J1939-15 COMPLIANT

Date: 1-9-15  
Revision: L

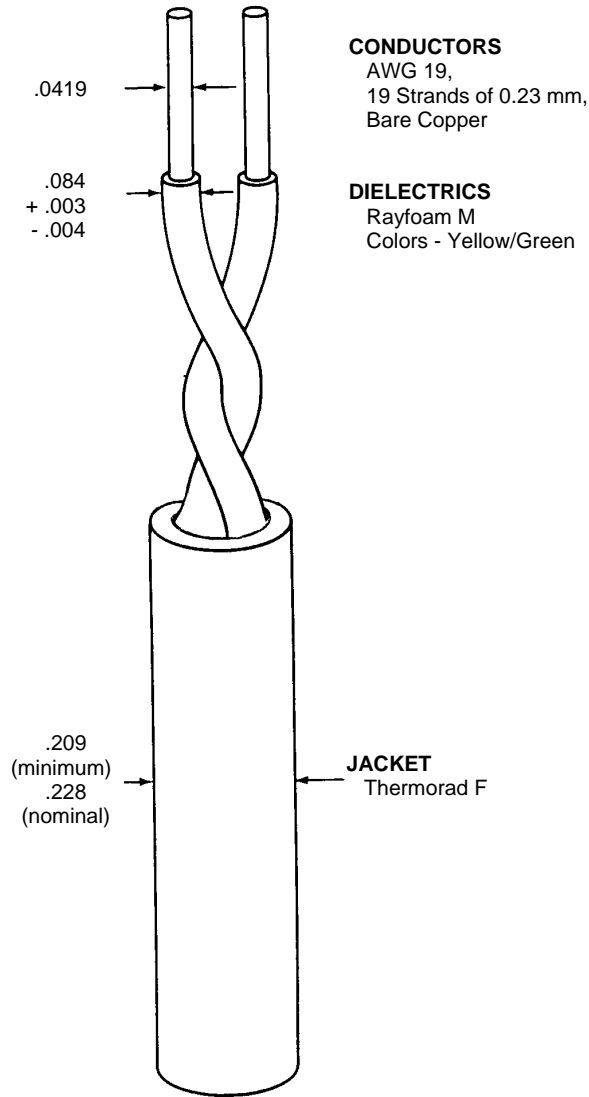
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

**CONSTRUCTION DETAILS**

**ELECTRICAL CHARACTERISTICS**

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

CHARACTERISTIC IMPEDANCE      120 ± 12 ohms, Method D at 1 MHz  
CAPACITANCE                      10.5 pF/ft. (nominal) at 1 MHz  
VELOCITY OF PROPAGATION      67% (nominal)



**ADDITIONAL REQUIREMENTS**

**ELECTRICAL**

CONDUCTOR RESISTANCE              7.47 ohms/1000 ft. (nominal)  
(prior to cabling)  
INSULATION RESISTANCE              10,000 megohms (minimum) for 1000 ft.  
VOLTAGE WITHSTAND (DIELECTRIC)   1500 volts (rms)

**ENVIRONMENTAL**

FLAMMABILITY                          Method C  
HEAT SHOCK                              225°C  
LOW TEMPERATURE-COLD BEND      -55°C/6.00 inch mandrel

**PHYSICAL**

CABLE LAY LENGTH                      1.3 ± .2 inch  
INSULATION (DIELECTRIC)  
(prior to cabling)  
    ELONGATION                              150% (minimum)  
    TENSILE STRENGTH                      1500 lbf/in<sup>2</sup> (minimum)  
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 0.75 mm<sup>2</sup>"  
for product jacketed in Mexico: "RAYCHEM J1939/15 0.75 mm<sup>2</sup>"

WEIGHT                                      23.5 lbs/1000 ft. (nominal)

**ENGINEERING REFERENCE**

TEMPERATURE RATING                      125°C (maximum)

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. 2019E0309-0). 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.



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