

SPECIFICATION CONTROL DRAWING

2020B0309

CHEMINAX

120 OHM, AWG 20, 19 STRANDS OF AWG 32,
TWISTED PAIR CABLE, J1939-15 COMPLIANT

Date: 10-2-14
Revision: E

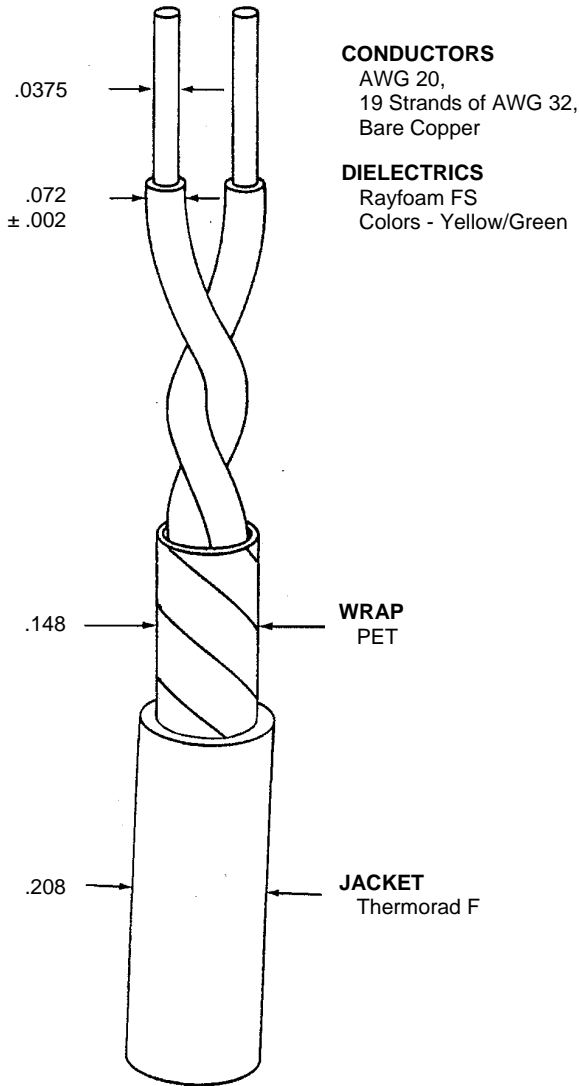
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

CHARACTERISTIC IMPEDANCE	120 ± 12 ohms, Method D at 1 MHz
CAPACITANCE	12.0 pF/ft. (nominal) at 1 MHz
VELOCITY OF PROPAGATION	70% (nominal)



ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE (prior to cabling)	9.35 ohms/1000 ft. (nominal)
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/5.50 inch mandrel

PHYSICAL

INSULATION (DIELECTRIC) ELONGATION	100% (minimum)
TENSILE STRENGTH	1000 lbf/in ² (minimum)
JACKET ELONGATION	200% (minimum)
TENSILE STRENGTH	2000 lbf/in ² (minimum)
JACKET THICKNESS	.025 inch (minimum), .030 inch (nominal), .040 inch (maximum)
WRAP	.001 inch thick (nominal), 25% overlap (minimum)

WEIGHT 18.9 lbs/1000 ft. (nominal)

ENGINEERING REFERENCE

TEMPERATURE RATING	125°C (maximum)
Note: Component diameter is compatible with environmental seals designed for DIN 72551 FLR 0.75 mm ² , 1.7 - 1.9 mm OD type wire.	

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. 2020B0309-0). 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.

