

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SPECIFICATION CONTROL DRAWING

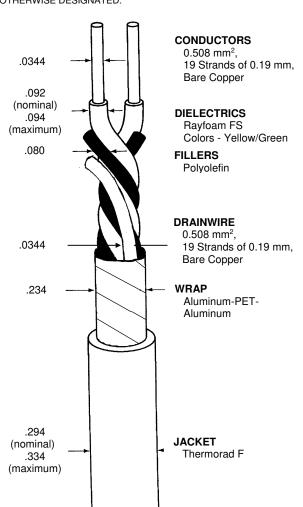
CHEMINAX

120 OHM, 0.508 mm², 19 STRANDS OF 0.19 mm, TWINAXIAL CABLE, J1939-11 COMPLIANT

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

CONSTRUCTION DETAILS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.



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).

Component Wire Stripe Option: Dielectrics striped red will be designated with a slash separating component wire colors, (e.g. 2021D0309-42/52-0).

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

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE 120 ± 12 ohms, Method D at 1 MHz

with shield grounded

2021D0309

Date:

Revision:

MUTUAL CAPACITANCE 10.5 pF/ft. (nominal) at 1 MHz

VELOCITY OF PROPAGATION 75% (nominal)

SURFACE TRANSFER IMPEDANCE 225 milliohms/meter (maximum)

(per MIL-DTL-85485) at 0.1 to 1 MHz

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE 11.3 ohms/1000 ft. (nominal)

(prior to cabling)

10,000 megohms (minimum) for 1000 ft. INSULATION RESISTANCE

JACKET FLAWS

SPARK TEST 1.0 kV (rms) IMPULSE TEST 6.0 kV (peak) VOLTAGE WITHSTAND (DIELECTRIC) 1500 volts (rms)

ENVIRONMENTAL

Method C **FLAMMABILITY HEAT SHOCK** 225°C

LOW TEMPERATURE-COLD BEND -55°C/8.00 inch mandrel **VOLTAGE WITHSTAND** 1000 volts (rms), 1 minute

(Post Environmental)

PHYSICAL

INSULATION (DIELECTRIC)

ELONGATION 100% (minimum) 1000 lbf/in² (minimum) TENSILE STRENGTH

JACKET

ELONGATION 200% (minimum) 2000 lbf/in² (minimum) TENSILE STRENGTH

JACKET THICKNESS .025 inch (minimum),

.030 inch (nominal), .040 inch (maximum)

WRAP .003 inch thick (nominal),

10% overlap (minimum)

CABLE IDENTIFICATION: Outer jacket shall be marked in contrasting color

at 12 inch (nominal) intervals as follows:

for product jacketed in USA: "RAYCHEM J1939-11 0.5 mm2" for product jacketed in Mexico: "RAYCHEM J1939/11 0.5 mm2"

WEIGHT 35.7 lbs/1000 ft. (nominal)

ENGINEERING REFERENCE

TEMPERATURE RATING 125°C (maximum)

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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