SPECIFICATION CONTROL DRAWING

CHEMINAX

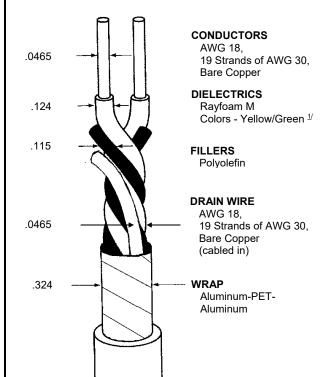
120 OHM, AWG 18, 19 STRANDS OF AWG 30, TWINAXIAL CABLE, J1939-11 COMPLIANT Date: 3-7-18
Revision: F

2018E0309

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. 2018E0309-0).

JACKET

Thermorad F

1/ Component Wire Stripe Option: Dielectrics striped red will be designated with a slash separating component wire colors, (e.g. 2018E0309-42/52-0).

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 wrap grounded

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

VELOCITY OF PROPAGATION 75% (nominal)

SURFACE TRANSFER IMPEDANCE 225 milliohms/meter (maximum)

(per SAE AS85485) at 0.1 to 1 MHz

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE 6.10 ohms/1000 ft. (nominal)

(prior to cabling)

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

JACKET FLAWS

SPARK TEST 1.0 kV (rms)
IMPULSE TEST 6.0 kV (peak)

VOLTAGE WITHSTAND (DIELECTRIC) 1000 volts (rms) (minimum)

ENVIRONMENTAL

FLAMMABILITY Method C HEAT SHOCK 225°C

LOW TEMPERATURE-COLD BEND -55°C/11.0 inch mandrel

VOLTAGE WITHSTAND 1000 volts (rms), 1 minute
(Post Environmental)

PHYSICAL

INSULATION (DIELECTRIC)

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

JACKET

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

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 white ink at 12 inch (nominal) intervals as follows: "RAYCHEM J1939-11 18 AWG"

WEIGHT 53.4 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. TE Connectivity 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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