SPECIFICATION CONTROL DRAWING

CHEMINAX

77 OHM, AWG 24, 19 STRANDS OF AWG 36. DATA BUS CABLE, MIL-STD-1553

Date:

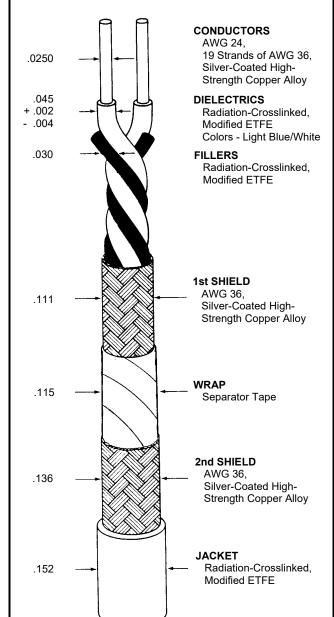
Revision:

7724D3664

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 white designated by a "-9" appended to the part number, e.g. 7724D3664-9.

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 77 +3, -7 ohms, Method C at 1 MHz

MUTUAL CAPACITANCE 30.0 pF/ft. (maximum)

ATTENUATION 1.0 dB/100 ft. (nominal) at 1 MHz 1.4 dB/100 ft. (maximum) at 1 MHz

ADDITIONAL REQUIREMENTS

COMPONENT WIRE PRIOR TO CABLING (Test procedures per SAE AS22759)

CONDUCTOR RESISTANCE 26.5 ohms/1000 ft. (nominal)

CROSSLINKING PROOF TEST 300 ± 3°C for 1 hour, .500 inch mandrel,

.375 lb, 2.5 kV dielectric test

INSULATION (DIELECTRIC)

ELONGATION 50% (minimum) 5000 lbf/in2 (minimum) TENSILE STRENGTH

INSULATION FLAWS

SPARK TEST 3.0 kV (rms) IMPULSE TEST 8.0 kV (peak)

INSULATION RESISTANCE 5000 megohms for 1000 ft. (minimum) LOW TEMPERATURE-COLD BEND -65 ± 3°C for 4 hours, .500 inch mandrel,

1.00 lb, 2.5 kV dielectric test

SHRINKAGE 200 ± 3°C for 1 hour,

.125 inch (maximum) in 12 inches

FINISHED CABLE

(Test procedures per NEMA WC 27500, unless otherwise specified)

BLOCKING 200°C for 6 hours

CABLE LAY LENGTH .75 inch (minimum), 1.25 inches (maximum) CROSSLINKED VERIFICATION 300 ± 5°C for 6 hours, 6.00 inch mandrel FI AMMARII ITY 3 seconds (maximum), 3 inches (maximum);

(Method B of Spec 1200) no flaming of facial tissue

ELONGATION 50% (minimum) 5000 lbf/in2 (minimum) TENSILE STRENGTH

JACKET FLAWS

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

JACKET THICKNESS .008 inch (nominal) LOW TEMPERATURE-COLD BEND -55 ± 5°C for 4 hours, 6.00 inch mandrel

SHIELD COVERAGE (each)

90% (minimum)

VOLTAGE WITHSTAND

(DIELECTRIC) 1000 volts (rms) (minimum) WRAP .001 inch thick (nominal), 25% overlap (minimum)

WEIGHT 24.5 lbs/1000 ft. (nominal)

ENGINEERING REFERENCE

TEMPERATURE RATING 200°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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