SPECIFICATION CONTROL DRAWING

CHEMINAX

.0200

.037

.025

.091

.107

77 OHM, AWG 26, 19 STRANDS OF AWG 38, OPTIMIZED SHIELD, DATA BUS CABLE, MIL-STD-1553 Date:

7726D0664

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

CONSTRUCTION DETAILS DIMENSIONS ARE NOMINAL VALUES IN INCHES. UNLESS OTHERWISE

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE MUTUAL CAPACITANCE

30.0 pF/ft. (maximum)

ATTENUATION

1.5 dB/100 ft. (maximum) at 1 MHz

77 ± 5 ohms. Method C at 1 MHz

SURFACE TRANSFER IMPEDANCE 50 milliohms/meter (maximum) at 0.1 MHz

(Curve defined by the

50 milliohms/meter (maximum) at 1 MHz 100 milliohms/meter (maximum) at 10 MHz

Revision:

following points)

DIELECTRICS

CONDUCTORS

AWG 26.

Radiation-Crosslinked, Modified ETFE

19 Strands of AWG 38,

Silver-Coated High-Strength Copper Alloy

Colors - Light Blue/White

FILL FRS

Radiation-Crosslinked, Modified ETFE

ADDITIONAL REQUIREMENTS

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

CONDUCTOR RESISTANCE 42.0 ohms/1000 ft. (nominal)

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

.250 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)

5000 megohms for 1000 ft. (minimum) INSULATION RESISTANCE

LOW TEMPERATURE-COLD BEND -65 ± 3°C for 4 hours, .500 inch mandrel,

.500 lb, 2.5 kV dielectric test

SHRINKAGE 200 ± 3°C for 1 hour.

.125 inch (maximum) in 12 inches

SHIELD

JACKET

AWG 38. Tin-Coated Copper, Optimized

Radiation-Crosslinked.

Modified ETFE

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, 3.00 inch mandrel

3 seconds (maximum); 3 inches (maximum); **FLAMMABILITY** (Method B of Spec 1200)

no flaming of facial tissue

JACKET

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, 3.00 inch mandrel

VOLTAGE WITHSTAND

(DIELECTRIC)

1500 volts (rms)

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. 7726D0664-9).

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

WEIGHT

10.6 lbs/1000 ft. (nominal)

ENGINEERING REFERENCE

Cheminax, Raychem, TE Connectivity, TE connectivity (logo), and TE (logo) are trademarks.

TEMPERATURE RATING 150°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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