SPECIFICATION CONTROL DRAWING

CHEMINAX

.0250

.0515

+.002

- .001

.035

.120

.124

141

.157

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

Date:

Revision:

7724Y3664

F

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 77 ± 5 ohms. Method C at 1 MHz

MUTUAL CAPACITANCE

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



DIELECTRICS

FILLERS

1st SHIELD

AWG 38,

WRAP

Tin-Coated Copper

Separator Tape

Tin-Coated Copper

Radiation-Crosslinked,

Modified ETFE

2nd SHIELD

AWG 38

JACKET

Modified ETFE

Modified ETFE

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

19 Strands of AWG 36, Silver-Coated High-Strength Copper Alloy

Radiation-Crosslinked,

Radiation-Crosslinked,

Colors - Light Blue/White

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** TENSILE STRENGTH

50% (minimum) 5000 lbf/in2 (minimum)

30.0 pF/ft. (maximum)

INSULATION FLAWS

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

INSULATION RESISTANCE LOW TEMPERATURE-COLD BEND

5000 megohms for 1000 ft. (minimum) -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 3 seconds (maximum), 3 inches (maximum); **FLAMMABILITY**

(Method B of Spec 1200)

no flaming of facial tissue

JACKET

WRAP

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) 85% (minimum)

VOLTAGE WITHSTAND

1000 volts (rms) (minimum)

(DIELECTRIC)

.001 inch thick (nominal), 25% overlap (minimum)

CABLE IDENTIFICATION: Outer jacket shall be marked in contrasting color

at 12 inch (nominal) intervals between marks follows: 7724Y3664-* RAYCHEM

WEIGHT 22.4 lbs/1000 ft. (nominal)

will be white designated by a "-9" appended to the part number, e.g. 7724Y3664-9. Other codes and suffixes may be added to the part number, as

necessary, to capture any additional requirements imposed by

Designate outer jacket color with a dash number in accordance

with MIL-STD-681. Unless otherwise specified, outer jacket color

ENGINEERING REFERENCE

TEMPERATURE RATING 150°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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Where * = applicable jacket color