SPECIFICATION CONTROL DRAWING

CHEMINAX

77 OHM, AWG 24, 19 STRANDS OF AWG 36, OPTIMIZED SHIELD. LOW FLUORIDE, DATA BUS CABLE, MIL-STD-1553, OUTER SPACE USE

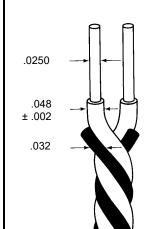
8-8-18 Date: С Revision:

7724S1LL4

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.



.113

.129

CONDUCTORS

AWG 24, 19 Strands of AWG 36, Silver-Coated High-Strength Copper Alloy

DIELECTRICS

Low Fluoride, Radiation-Crosslinked, Modified ETFE Colors - Light Blue/White

FILLERS

Low Fluoride, Radiation-Crosslinked, Modified ETFE

SHIELD - Optimized

AWG 38

Silver-Coated Copper

JACKET

Designate outer jacket color with a dash number in accordance

will be white designated by a "-9" appended to the part number.

Other codes and suffixes may be added to the part number, as

necessary, to capture any additional requirements imposed by

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

Low Fluoride. Radiation-Crosslinked, Modified ETFE

CHARACTERISTIC IMPEDANCE 77 ± 5 ohms, Method C at 1 MHz

ELECTRICAL CHARACTERISTICS

MUTUAL CAPACITANCE 30.0 pF/ft. (maximum)

ATTENUATION 1.4 dB/100 ft. (maximum) at 1 MHz SURFACE TRANSFER IMPEDANCE 100 milliohms/meter (maximum)

(Per SAE AS85485) at 30 MHz

ADDITIONAL REQUIREMENTS

FLUORIDE EXTRACTION 70 ± 2°C for 168 hours. (Dielectrics and Fillers prior to cabling, 20 ppm (maximum) and Jacket per Raychem Spec 55/)

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. .750 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 **FLAMMABILITY** 3 seconds (maximum), 3 inches (maximum);

(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, 6.00 inch mandrel

VOLTAGE WITHSTAND 1000 volts (rms) (minimum)

(DIELECTRIC)

WEIGHT 14.5 lbs/1000 ft. (nominal)

OUTER SPACE REQUIREMENTS

500 megarads/3.75 inch mandrel RADIATION RESISTANCE

VACUUM STABILITY

TOTAL MASS LOSS (TML) 1.00% (maximum) VOLATILE CONDENSABLÉ 0.10% (maximum)

MATERIAL (VCM)

WEIGHT LOSS 0.45% (maximum)

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.

Page 1 of 1

the purchase order.

e.g. 7724S1LL4-9.

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

