SPECIFICATION CONTROL DRAWING

7726S1LL4

CHEMINAX

.025

.091

.107

specified.

77 OHM, AWG 26, 19 STRANDS OF AWG 38, DATA BUS, OPTIMIZED SINGLE SHIELD, MIL-STD-1553, LOW FLUORIDE, OUTER SPACE USE Date 9-3-08

Revision B

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

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED

CONDUCTORS
AWG 26, 19 Strands of AWG 38, Silver-Coated High Strength Copper Alloy

DIELECTRICS
Low Fluoride, Radiation-Crosslinked,

FILLERS

Modified ETFE

Low Fluoride, Radiation-Crosslinked, Modified ETFE

Color - Light Blue/White

SHIELD AWG 38

Silver-Coated Copper Optimized

JACKET Low Fluoride, Radiation-Crosslinked, Modified ETEE CHARACTERISTIC IMPEDANCE 77 ± 5 ohms, Method C at 1 MHz

MUTUAL CAPACITANCE 30.0 pF/ft. (maximum)

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

SURFACE TRANSFER IMPEDANCE 100 milliohms/meter (maximum) (Per MIL-C-85485 at 30 MHz)

ADDITIONAL REQUIREMENTS

FLUORIDE EXTRACTION $70 \pm 2^{\circ}$ C for 168 hours, 20 ppm

(Dielectrics and Fillers prior to cabling; and Jacket - per Raychem Spec 55/) (maximum)

5/)

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

CROSSLINK PROOF 300 ± 3°C for 1 hour, .500 inch mandrel, .250 lb., 2.5 kV dielectric test

INSULATION (DIELECTRIC)

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

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

 $\begin{array}{ll} \mbox{INSULATION RESISTANCE} & 5000 \mbox{ megohms for 1000 ft. (minimum)} \\ \mbox{LOW TEMPERATURE-COLD BEND} & -65 \pm 3^{\circ}\mbox{C for 4 hours, .500 inch mandrel,} \\ \end{array}$

.500 lb., 2.5 kV dielectric test 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 $300 \pm 5^{\circ}$ C for 6 hours, 3.00 inch mandrel FLAMMABILITY 3 seconds (maximum); 3 inches (maximum);

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

JACKET

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

JACKET FLAWS

SHRINKAGE

 SPARK TEST
 1.0 kV (rms)

 IMPULSE TEST
 6.0 kV (peak)

 JACKET THICKNESS
 .008 inch (nominal)

LOW TEMPERATURE-COLD BEND -55

VOLTAGE WITHSTAND 15

(DIELECTRIC)

WEIGHT

-55 ± 5°C for 4 hours, 3.00 inch mandrel

1500 volts (rms)

10.4 lbs/1000 ft. (nominal)

OUTER SPACE REQUIREMENTS

RADIATION RESISTANCE 500 megarads/3.25 inch mandrel

VACUUM STABILITY

TOTAL MASS LOSS (TML)

VOLATILE CONDENSABLE

(Per Raychem Spec 55/)

MATERIAL (VCM) WEIGHT LOSS: 1.0 kV dielectric test

1.00% (maximum) 0.10% (maximum)

0.45% (maximum)

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

The TE logo, Tyco Electronics, Cheminax and Raychem are trademarks.



requirements imposed by the purchase order.

Outer jacket color will be white (designated by a "-9" appended

Designate outer jacket color with a dash number in accordance

with MIL-STD-681. Other codes and suffixes may be added to

to the part number, e.g. 7726S1LL4-9) unless otherwise

the part number, as necessary, to capture any additional