SPECIFICATION CONTROL DRAWING

CHEMINAX

.0250

052

± .002

.111

.127

(nominal)

.135

(maximum)

77 OHM, AWG 24, 19 STRANDS OF AWG 36, DATA BUS CABLE, OUTER SPACE USE

7724E2664 Date:

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 ± 7 ohms. Method C at 1 MHz 30.0 pF/ft. (maximum)

MUTUAL CAPACITANCE **ATTENUATION**

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

SURFACE TRANSFER IMPEDANCE 70 milliohms/meter (nominal) at 10 MHz

8.0 dB/100 ft. (maximum) at 10 MHz

Revision:

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,

.500 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)

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

SHIELD - Flat

JACKET

CONDUCTORS AWG 24,

DIELECTRICS

Modified ETFE

19 Strands of AWG 36.

Strength Copper Alloy

Radiation-Crosslinked,

Colors - Light Blue/White

Silver-Coated High-

.0015 Strand Thickness. Silver-Coated Copper

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, 6.00 inch mandrel 3 seconds (maximum), 3 inches (maximum); **FLAMMABILITY**

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

JACKET

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

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 90% (minimum)

VOLTAGE WITHSTAND 1000 volts (rms) (minimum)

(DIELECTRIC)

WEIGHT 10.4 lbs/1000 ft. (nominal)

OUTER SPACE REQUIREMENTS

RADIATION RESISTANCE 500 megarads/3.75 inch mandrel

VACUUM STABILITY

TOTAL MASS LOSS (TML) **VOLATILE CONDENSABLE**

1.00% (maximum) 0.10% (maximum)

MATERIAL (VCM) WEIGHT LOSS

0.45% (maximum)

Other codes and suffixes may be added to the part number, as **ENGINEERING REFERENCE** necessary, to capture any additional requirements imposed by

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.

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



e.g. 7724E2664-9.

the purchase order.

Page 1 of 1

Phone: 1-800-522-6752 Fax: 1-650-361-6297

Designate outer jacket color with a dash number in accordance

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

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