SPECIFICATION CONTROL DRAWING

7724S8664



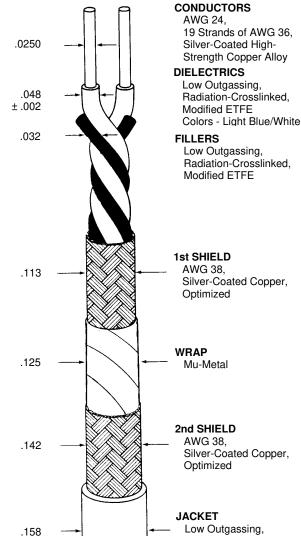
77 OHM, AWG 24, 19 STRANDS OF AWG 36, EMP HARDENED, DATA BUS CABLE, MIL-STD-1553, OUTER SPACE USE

Date: Ε Revision:

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

CONSTRUCTION DETAILS

DIMENSIONS ARE NOMINAL VALUES IN INCHES. UNLESS OTHERWISE



Designate outer jacket color with a dash number in accordance with

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

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

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

Low Outgassing, Radiation-Crosslinked, Modified ETFE

ELECTRICAL CHARACTERISTICS

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

MUTUAL CAPACITANCE 30.0 pF/ft. (maximum) **ATTENUATION** 1.4 dB/100 ft. (maximum) at 1 MHz SURFACE TRANSFER IMPEDANCE 0.2 milliohms/meter (maximum) at 30 MHz

(Per SAE AS85485)

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. .625 inch mandrel.

.375 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, .750 inch mandrel,

1.00 lb, 2.5 kV dielectric test

200 ± 3°C for 1 hour. **SHRINKAGE**

.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); no flaming of facial tissue

(Method B of Spec 1200)

JACKET

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

JACKET FLAWS

SPARK TEST 1.0 kV (rms) 6.0 kV (peak) **IMPULSE TEST** .008 inch (nominal) JACKET THICKNESS

-55 ± 5°C for 4 hours, 6.00 inch mandrel LOW TEMPERATURE-COLD BEND

VOLTAGE WITHSTAND

(DIELECTRIC)

WRAP .002 inch thick (nominal),

25% overlap (minimum) WEIGHT 28.3 lbs/1000 ft. (nominal)

OUTER SPACE REQUIREMENTS

RADIATION RESISTANCE 500 megarads, 4.75 inch mandrel,

1.0 kV dielectric test

1500 volts (rms)

VACUUM STABILITY

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

MATERIAL (VCM)

WEIGHT LOSS 0.45% (maximum)

ENGINEERING REFERENCE

200°C (maximum) TEMPERATURE RATING

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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e.g. 7724S8664-9).

purchase order.

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