

SPECIFICATION CONTROL DRAWING

7724S3LL4

CHEMINAX

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

Date: 8-8-18
Revision: C

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 30.0 pF/ft. (maximum)
ATTENUATION 1.4 dB/100 ft. (maximum) at 1 MHz
SURFACE TRANSFER IMPEDANCE 10 milliohms/meter (maximum) at 30 MHz
(Per SAE AS85485)

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)
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
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)
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
VOLTAGE WITHSTAND (DIELECTRIC) 1000 volts (rms) (minimum)
WEIGHT 21.7 lbs/1000 ft. (nominal)

OUTER SPACE REQUIREMENTS

RADIATION RESISTANCE 500 megarads/4.25 inch mandrel
VACUUM STABILITY TOTAL MASS LOSS (TML) 1.00% (maximum)
VOLATILE CONDENSABLE MATERIAL (VCM) 0.10% (maximum)
WEIGHT LOSS 0.45% (maximum)

ENGINEERING REFERENCE

TEMPERATURE RATING 200°C (maximum)

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

1st SHIELD - Optimized

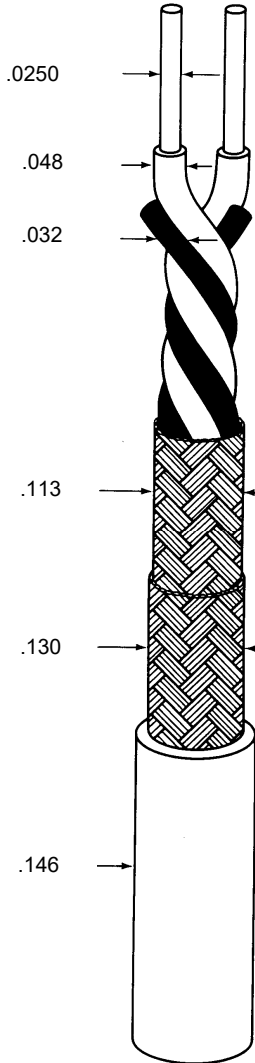
AWG 38, Silver-Coated Copper

2nd SHIELD - Optimized

AWG 38, Silver-Coated Copper

JACKET

Low Fluoride, Radiation-Crosslinked, Modified ETFE



Designate outer jacket color with a dash number in accordance with MIL-STD-681. Unless otherwise specified, outer jacket color will be white designated by a "-9" appended to the part number, e.g. 7724S3LL4-9.

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

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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