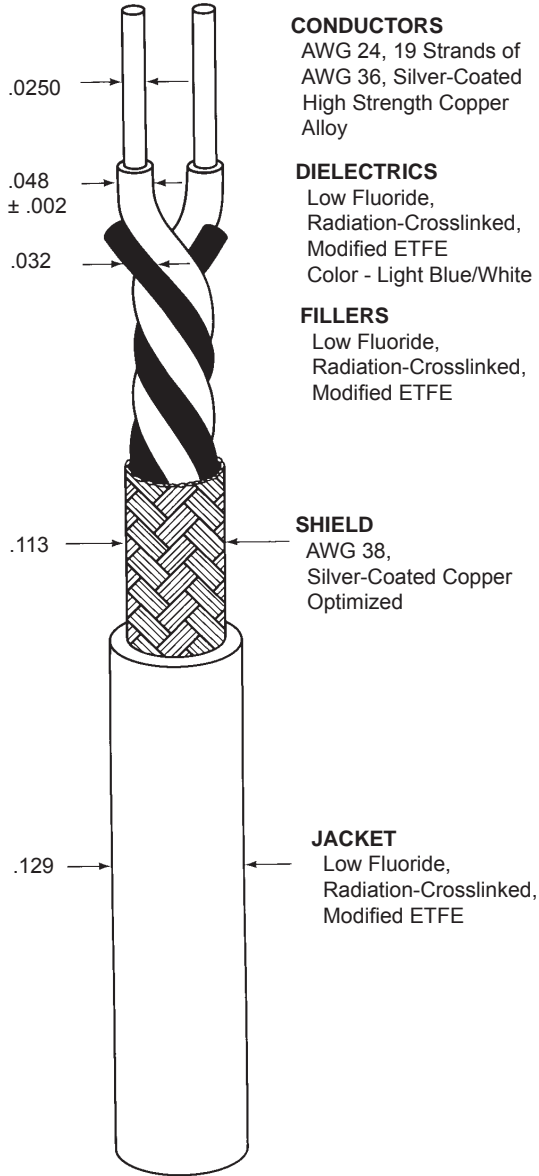


SPECIFICATION CONTROL DRAWING		7724S1LL4	
<b>CHEMINAX</b>	77 OHM, AWG 24, 19 STRANDS OF AWG 36, DATA BUS CABLE, MIL-STD-1553, OPTIMIZED SHIELD, LOW FLUORIDE, OUTER SPACE USE	Date	4-11-08
		Revision	B
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.			

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.



**CONDUCTORS**

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

**DIELECTRICS**

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

**FILLERS**

Low Fluoride, Radiation-Crosslinked, Modified ETFE

**SHIELD**

AWG 38, Silver-Coated Copper Optimized

**JACKET**

Low Fluoride, Radiation-Crosslinked, Modified ETFE

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

**ADDITIONAL REQUIREMENTS**

FLUORIDE EXTRACTION (Dielectric and fillers prior to cabling; and Jacket - per Raychem Spec 55/)	70 ± 2°C for 168 hours, 20 ppm (maximum)
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**COMPONENT WIRE PRIOR TO CABLING (Test Procedures per SAE AS22759)**

CROSSLINK PROOF	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/in <sup>2</sup> (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

**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 (Method B of Spec 1200)	3 seconds (maximum); 3 inches (maximum); no flaming of facial tissue
JACKET	
ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in <sup>2</sup> (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)	1500 volts (rms)
WEIGHT	14.7 lbs/1000 ft. (nominal)

**OUTER SPACE REQUIREMENTS**

RADIATION RESISTANCE	500 megarads/3.75 inch mandrel 1.0 kV dielectric test
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VACUUM STABILITY	
TOTAL MASS LOSS (TML)	1.00% (maximum)
VOLATILE CONDENSABLE MATERIAL (VCM)	0.10% (maximum)
WEIGHT LOSS: (Per Raychem Spec 55/)	0.45% (maximum)

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 7724S1LL4-9) unless otherwise specified.

Designate outer jacket color with a dash number in accordance with MIL-STD-681. 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. 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.

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THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.