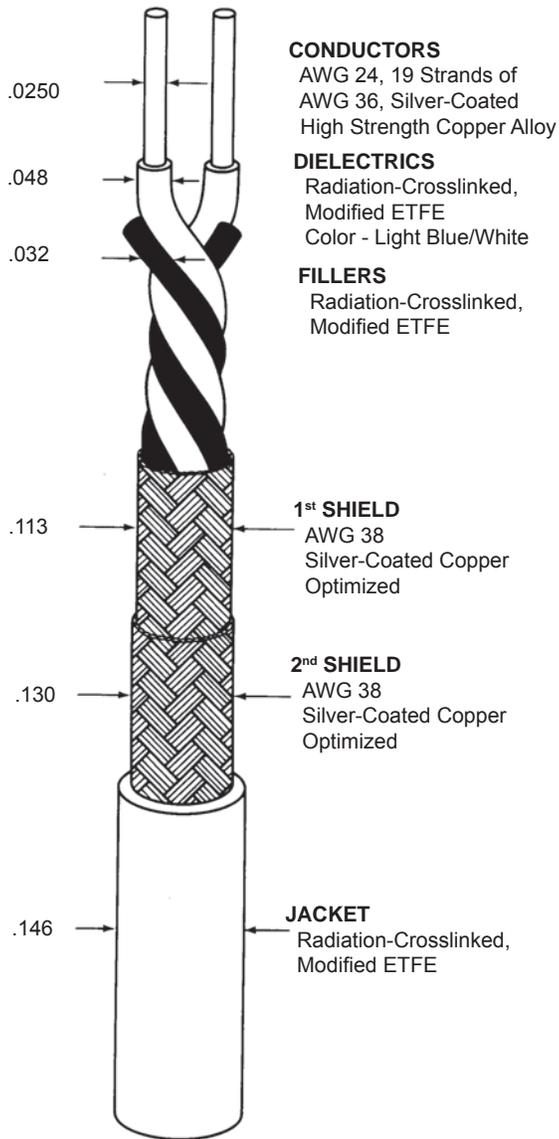


<b>SPECIFICATION CONTROL DRAWING</b>		<b>7724S3664</b>	
<b>CHEMINAX</b>	77 OHM, AWG 24, 19 STRANDS OF AWG 36, DATA BUS, MIL-STD-1553 OPTIMIZED DOUBLE SHIELD, OUTER SPACE USE	Date	9-3-08
		Revision	D

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

<b>CONSTRUCTION DETAILS</b>	<b>ELECTRICAL CHARACTERISTICS</b>
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DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED



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

**DIELECTRICS**  
Radiation-Crosslinked,  
Modified ETFE  
Color - Light Blue/White

**FILLERS**  
Radiation-Crosslinked,  
Modified ETFE

**1<sup>st</sup> SHIELD**  
AWG 38  
Silver-Coated Copper  
Optimized

**2<sup>nd</sup> SHIELD**  
AWG 38  
Silver-Coated Copper  
Optimized

**JACKET**  
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	10 milliohms/meter (maximum) (Per MIL-C-85485 at 30 MHz)

**ADDITIONAL REQUIREMENTS**

**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 inch (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	22.0 lbs/1000 ft. (nominal)

**OUTER SPACE REQUIREMENTS**

RADIATION RESISTANCE	500 megarads/4.25 inch mandrel 1.0 kV dielectric test
VACUUM STABILITY TOTAL MASS LOSS (TML)	1.00% (maximum)
VOLATILE CONDENSABLE MATERIAL (VCM)	0.10% (maximum)
WEIGHT LOSS: (Test per Spec 55/)	0.45% (maximum)

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 7724S3664-9) 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.