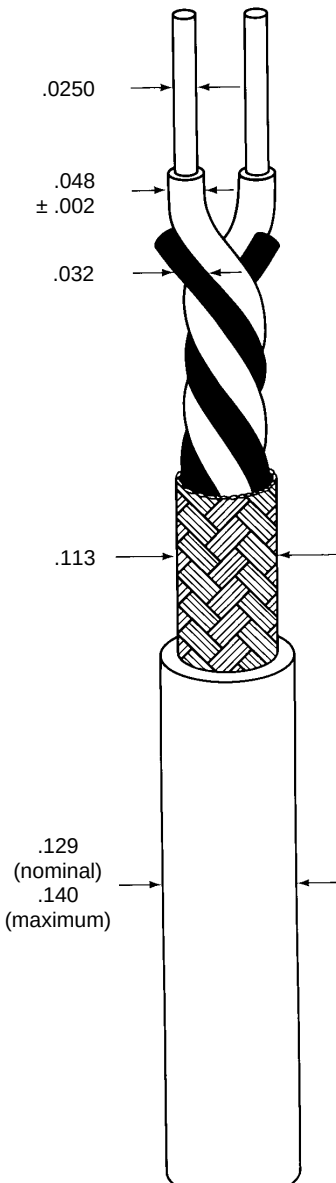


SPECIFICATION CONTROL DRAWING		7724S1664
CHEMINAX	77 OHM, AWG 24, 19 STRANDS OF AWG 36, OPTIMIZED SHIELD, DATA BUS CABLE, MIL-STD-1553, OUTER SPACE USE	Date: 8-15-14 Revision: F
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.		
CONSTRUCTION DETAILS		ELECTRICAL CHARACTERISTICS
DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.  CONDUCTORS AWG 24, 19 Strands of AWG 36, Silver-Coated High-Strength Copper Alloy DIELECTRICS Low Outgassing, Radiation-Crosslinked, Modified ETFE Colors - Light Blue/White FILLERS Low Outgassing, Radiation-Crosslinked, Modified ETFE SHIELD AWG 38, Silver-Coated Copper, Optimized JACKET Low Outgassing, Radiation-Crosslinked, Modified ETFE Dimensions: .0250, .048 ± .002, .032, .113, .129 (nominal), .140 (maximum)		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) 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/in ² (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); no flaming of facial tissue (Method B of Spec 1200) JACKET ELONGATION 50% (minimum) TENSILE STRENGTH 5000 lbf/in ² (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 1500 volts (rms) (DIELECTRIC) WEIGHT 14.5 lbs/1000 ft. (nominal)
		OUTER SPACE REQUIREMENTS
		RADIATION RESISTANCE 500 megarads, 3.75 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 0.45% (maximum)
		ENGINEERING REFERENCE
		TEMPERATURE RATING 200°C (maximum)
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. 7724S1664-9). 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. 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.		
Page 1 of 1	Cheminax, Raychem, TE Connectivity, TE connectivity (logo), and TE (logo) are trademarks.	



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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.

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