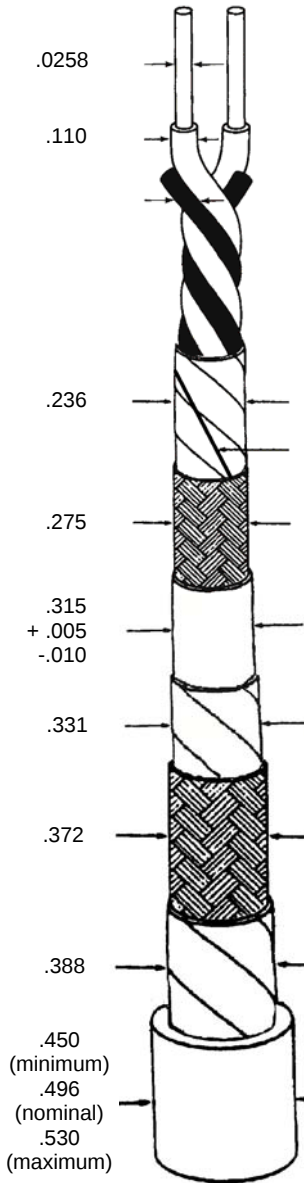


SPECIFICATION CONTROL DRAWING		5022W0809
CHEMINAX	150 OHM, AWG 22, SOLID CONDUCTORS, DATA PAIR CABLE, WATERTIGHT, MIL-DTL-24643/62, LSPB2SDOSW-1	Date: 4-21-16 Revision: P
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.		
CONSTRUCTION DETAILS		ELECTRICAL CHARACTERISTICS
DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.  CONDUCTORS AWG 22, Solid, Bare Copper DIELECTRICS Radiation-Crosslinked, Foamed PE Colors - Red/Green FILLERS Waterblocking material as needed for watertightness WATERBLOCK LAYER DRAIN WIRE AWG 24, 19 Strands of AWG 36, Tin-Coated Copper (helically laid) 1st SHIELD AWG 32, Tin-Coated Copper 1st JACKET Zerohal Color - Black WATERBLOCK LAYER 2nd SHIELD AWG 30, Tin-Coated Copper, Optimized WATERBLOCK LAYER 2nd JACKET Zerohal Dimensions (inches): .0258, .110, .236, .275, .315 + .005 - .010, .331, .372, .388, .450 (minimum), .496 (nominal), .530 (maximum)		CHARACTERISTIC IMPEDANCE 150 ± 15 ohms at 0.2 to 20 MHz using IFT-TDR measurement MUTUAL CAPACITANCE 3.0 nF/100 m (maximum) at 1 kHz VELOCITY OF PROPAGATION 77% (nominal) SURFACE TRANSFER IMPEDANCE (Outer Shield) 700 milliohms/meter (maximum) at 0.1 to 100 MHz. 60 dB (minimum) EMP Response per MIL-DTL-24643. ATTENUATION (dB/100 m) 1.0 (maximum) at 0.2 MHz 2.5 (maximum) at 4.0 MHz 5.0 (maximum) at 16 MHz 7.2 (maximum) at 31.25 MHz
		ADDITIONAL REQUIREMENTS
		ELECTRICAL CONDUCTOR RESISTANCE (Finished Cable) 16.6 ohms/1000 ft. (maximum) INSULATION RESISTANCE 10,000 megohms (minimum) for 1000 ft. JACKET FLAWS SPARK TEST 3.0 kV (rms) VOLTAGE WITHSTAND Conductor to Conductor and Shield 1500 volts (rms) Shield to Shield 1000 volts (rms) ENVIRONMENTAL OPERATING TEMPERATURE 110°C Other testing as required by MIL-DTL-24643/62. PHYSICAL INSULATION (DIELECTRIC) ELONGATION TENSILE STRENGTH 160% (minimum) 700 lbf/in² (minimum) JACKET (each) ELONGATION TENSILE STRENGTH 160% (minimum) 1300 lbf/in² (minimum) JACKET THICKNESS 1st JACKET .020 inch (nominal) 2nd JACKET .040 inch (minimum), .054 inch (nominal) SHIELD COVERAGE (1st) 90% (minimum) WATERTIGHTNESS 4 in³ (maximum) in ASTM D 1141 solution MARKER TAPE (under outer jacket) RAYCHEM-REDWOOD CITY, CA-Yr of Mfr-MIL-DTL-24643-* (* = Serial marker) JACKET MARK RAYCHEM LSPB2SDOSW-1 M24643/62-04 Yr of Mfr XLPOLYO WEIGHT 163. lbs/1000 ft. (nominal)
Outer jacket color will be black designated by a "-0" in accordance with MIL-STD-681 appended to the part number, (e.g. 5022W0809-0). 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.		
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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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