

**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

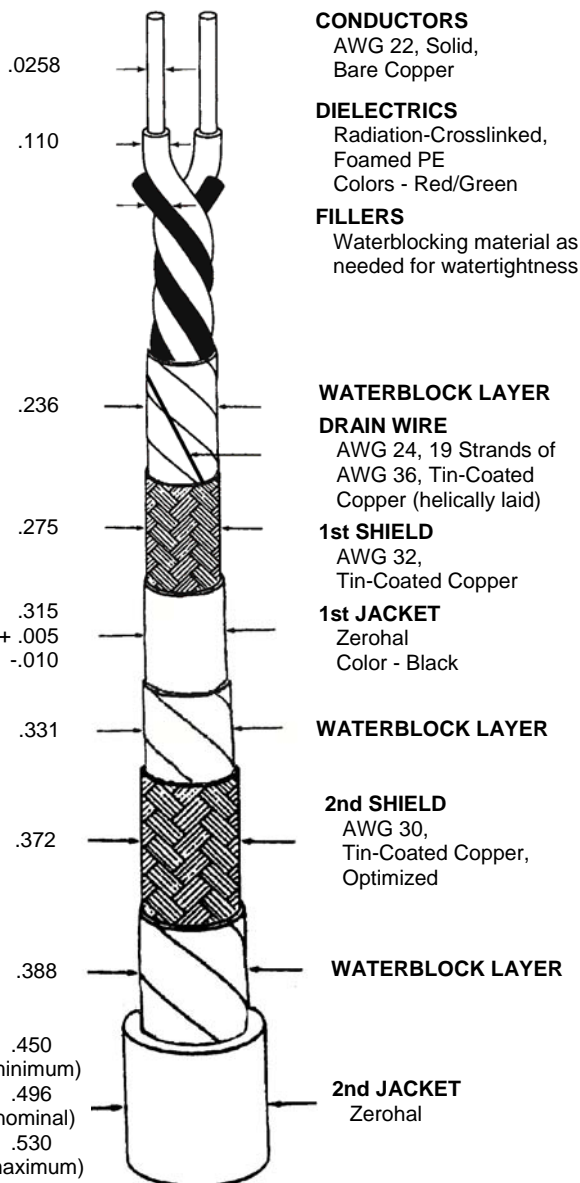
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

**CONSTRUCTION DETAILS**

**ELECTRICAL CHARACTERISTICS**

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

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**

<b>ELECTRICAL</b>	
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)
<b>ENVIRONMENTAL</b>	
OPERATING TEMPERATURE	110°C
Other testing as required by MIL-DTL-24643/62.	
<b>PHYSICAL</b>	
INSULATION (DIELECTRIC) ELONGATION	160% (minimum)
TENSILE STRENGTH	700 lbf/in <sup>2</sup> (minimum)
JACKET (each) ELONGATION	160% (minimum)
TENSILE STRENGTH	1300 lbf/in <sup>2</sup> (minimum)
JACKET THICKNESS	1st JACKET: .020 inch (nominal) 2nd JACKET: .040 inch (minimum), .054 inch (nominal)
SHIELD COVERAGE (1st)	90% (minimum)
WATERTIGHTNESS	4 in <sup>3</sup> (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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