SPECIFICATION CONTROL DRAWING

CHEMINAX

.0258

.110

.236

.275

.315

+.005

-.010

.331

.372

.388

.450

(minimum)

.496

(nominal)

.530

(maximum)

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

150 OHM, AWG 22, SOLID CONDUCTORS, DATA PAIR CABLE, WATERTIGHT, MIL-DTL-24643/62, LSPB2SDOSW-1

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

CONSTRUCTION DETAILS **ELECTRICAL CHARACTERISTICS**

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 700 milliohms/meter (maximum)

(Outer Shield) at 0.1 to 100 MHz.

60 dB (minimum) EMP Response

5022W0809

Date:

Revision:

per MIL-DTL-24643.

ATTENUATION 1.0 (maximum) at 0.2 MHz (dB/100 m) 2.5 (maximum) at 4.0 MHz

5.0 (maximum) at 16 MHz 7.2 (maximum) at 31.25 MHz

ADDITIONAL REQUIREMENTS

WATERBLOCK LAYER

DRAIN WIRE

CONDUCTORS AWG 22, Solid,

Bare Copper

DIELECTRICS

Foamed PE

FILLERS

Radiation-Crosslinked,

Waterblocking material as

needed for watertightness

Colors - Red/Green

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**

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.

ELECTRICAL

CONDUCTOR RESISTANCE 16.6 ohms/1000 ft. (maximum)

(Finished Cable)

10,000 megohms (minimum) for 1000 ft. INSULATION RESISTANCE

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 160% (minimum) 700 lbf/in² (minimum) TENSILE STRENGTH

JACKET (each)

ELONGATION 160% (minimum) 1300 lbf/in² (minimum) TENSILE STRENGTH

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

RAYCHEM-REDWOOD CITY, CA-MARKER TAPE

Yr of Mfr-MIL-DTL-24643-* (under outer jacket)

(* = Serial marker)

JACKET MARK **RAYCHEM LSPB2SDOSW-1**

M24643/62-04 Yr of Mfr XLPOLYO

WEIGHT 163. lbs/1000 ft. (nominal)

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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