

LSZH 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead
Isolated Cable Assembly using TWCH-78-2-LC Coax, 2 FT



LC3MSA00579-24

Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRB 3-Lug Jack Bulkhead Isolated
- Cable Type: TWCH-78-2-LC

Features

- MIL-STD-1553
- -30°C to +80°C
- 78 ohms
- Halogen Free
- Non-Toxic
- Insulated Bulkhead

Applications

- Military Contractors
- MIL-STD-1553
- Data
- Safer Environments
- Ventilation critical areas
- Hospitals

Description

L-com's LC3MSA00579-24 is a LSZH 1553 TRB 3-Slot plug to TRB 3-Lug jack bulkhead isolated cable assembly using TWCH-78-2-LC coax, 2 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 3-Slot to TRB 3-Lug cable assembly has a plug to jack gender configuration with 78 Ohm flexible TWCH-78-2-LC series coax and operates to 500 MHz. The LC3MSA00579 cable assembly consists of a 78 Ohm Low Smoke Zero Halogen 3-Slot TRB Solder/Clamp Plug to 3-Lug TRB Solder/Clamp Insulated Bulk Head Jack for TWCH-78-2 cable (.242 O.D.) suitable for MIL-STD-1553 Applications. The zero halogen jacket cable reduces the amount of toxic and corrosive gases emitted during combustion. Typically used in poorly ventilated areas, zero halogen is very popular with military contractors and anywhere the protection of people and equipment from toxic and corrosive gases is critical.

Custom versions of this TRB 3-Slot plug to TRB 3-Slot jack cable, along with the rest of L-com's other RF assemblies, can also be built and shipped same day. Other available RF flexible assembly value added services from L-com include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly. Contact a sales representative for testing or custom RF cable quotes. Part number LC3MSA00579-24 L-com LSZH 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead Isolated Cable Assembly using TWCH-78-2-LC Coax, 2 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		500	MHz
Capacitance		21.2 [69.55]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	10	50	100	200	500	MHz
Insertion Loss (Typ.)	0.244	0.302	0.35	0.41	0.52	dB

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Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length*	24 in [609.6 mm]
Weight	0.33 lbs [149.69 g]

Cable

Cable Type	TWCH-78-2-LC
Impedance	78 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Shield Layer 1	Silver Plated Copper
Jacket Material	HF POF, Blue

One Time Minimum Bend Radius	1.25 in [31.75 mm]
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Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Slot Plug	TRB 3-Lug Jack Bulkhead Isolated
Impedance	78 Ohms	78 Ohms
Contact Material and Plating	Bronze, Gold 30 micro inches	Bronze, Gold 30 micro inches
Contact Plating Specification	ASTM-B-488	ASTM-B-488
Dielectric Type	Teflon	Teflon
Outer Conductor Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Outer Conductor Plating Specification	30 micro inches	30 micro inches
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	ASTM-B-733	ASTM-B-733

Environmental Specifications

Temperature

Operating Range	-30 to +80 deg C
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LC3MSA00579-24

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

LC3MSA00579

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: LC3MSA00579-12 = 12 inches long cable
LC3MSA00579-100cm = 100 cm long cable

LSZH 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead Isolated Cable Assembly using TWCH-78-2-LC Coax, 2 FT from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

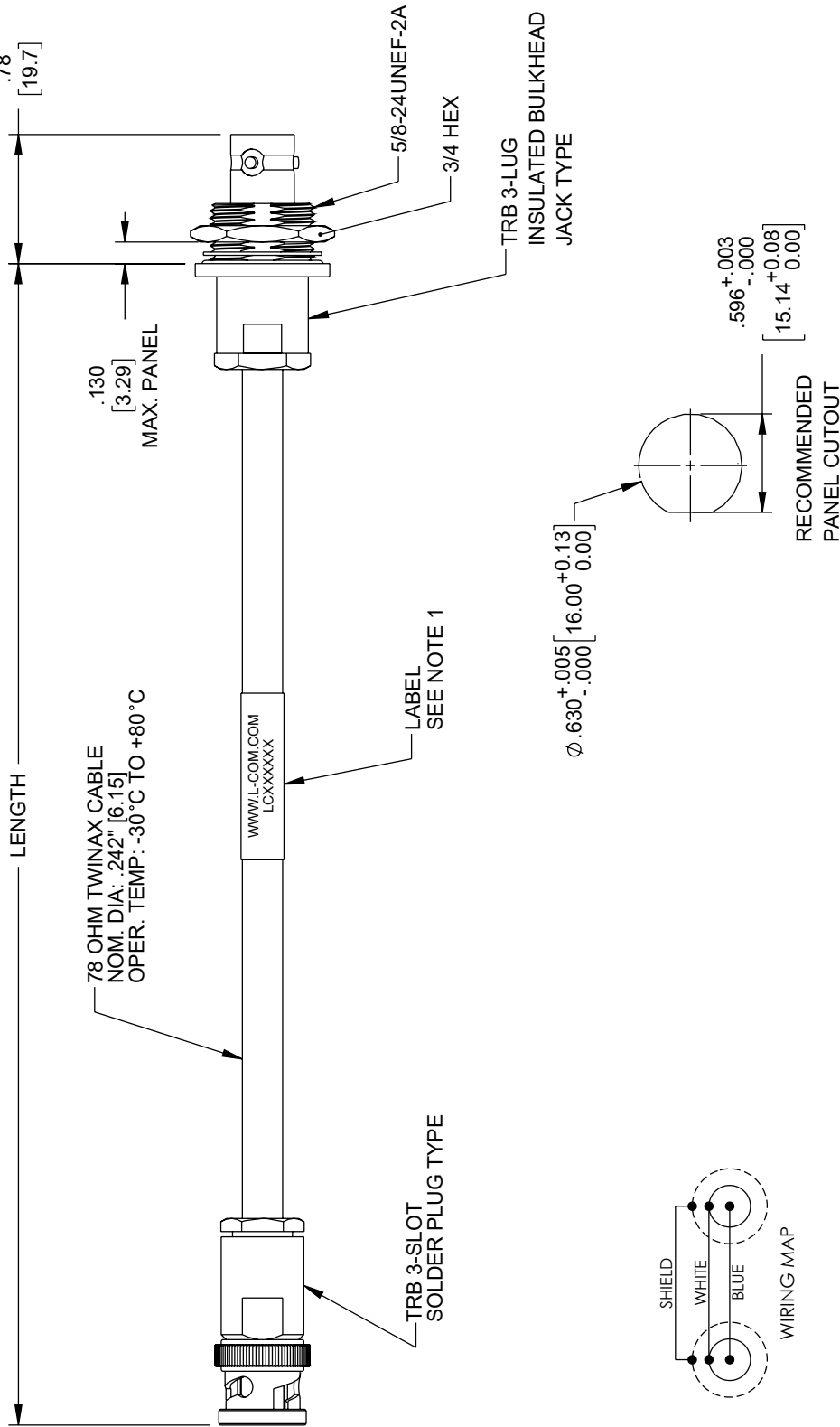
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LSZH 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead Isolated
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L-com CAD Drawing

1 2 3 4 5 6

F E D C B A



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY PN AS ILLUSTRATED: LC3MSA00579-XX (XX = OAL IN METERS).

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TOLERANCES:		SCALE		SHEET	
X = ±.2 [5]		NONE		1 OF 1	
XX = ±.02 [0.5]					
XXX = ±.005 [0.13]					
CABLE LENGTH TOLERANCES:					
≤12 [305] ≤60 [1524] = ±.125 [-0]					
>12 [305] ≤60 [1524] = ±.125 [-0]					
>60 [1524] ≤120 [3048] = ±.102 [-0]					
>120 [3048] ≤240 [6096] = ±.079 [-0]					
>240 [6096] ≤300 [7620] = ±.059 [-0]					
>300 [7620] = ±.059 [-0]					
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS SPECIFICALLY NOTED OTHERWISE. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		DESCRIPTION LSZH 78 OHM TRB 3-SLOT SOLDER/CLAMP PLUG TO 3-LUG SOLDER/CLAMP INSULATED BULKHEAD JACK FOR TWCH-78-2 TWINAX MIL-STD-1553 CABLE		REV	
		SIZE		ITEM NO.	
A		CAGE CODE		LC3MSA00579-XX	
		DRAWN BY		A	
		LNAGARAJ			