

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



LC3MSA00605-24

Configuration

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

Features

- MIL-STD-1553
- -30°C to +80°C
- 78 ohms
- ROHS Low Smoke Zero Halogen
- Non-Toxic

Applications

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

Description

L-com's LC3MSA00605-24 is a LSZH 1553 TRB 2-Slot plug to TRB 3-Lug jack cable assembly using TWCH-78-2 coax, 2 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 2-Slot to TRB 3-Lug cable assembly has a plug to jack gender configuration with 78 Ohm flexible TWCH-78-2 series coax and operates to 500 MHz.

Custom versions of this TRB 2-Slot plug to TRB 2-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 cable 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 LC3MSA00605-24 L-com LSZH 1553 TRB 2-Slot Plug to TRB 3-Lug Jack Cable Assembly using TWCH-78-2 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

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.

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Assembly using TWCH-78-2 Coax, 2 FT

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Mechanical Specifications

Cable Assembly

Length*	24 in [609.6 mm]
Weight	0.162 lbs [73.48 g]

Cable

Cable Type	TWCH-78-2
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 2-Slot Plug	TRB 3-Lug Jack
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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Compliance Certifications

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

Plotted and Other Data

Notes:

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LC3MSA00605-24



How to Order

Part Number Configuration:

LC3MSA00605 - **xx** **uu**



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

Length

Base Number

Example: LC3MSA00605-12 = 12 inches long cable
LC3MSA00605-100cm = 100 cm long cable

LSZH 1553 TRB 2-Slot Plug to TRB 3-Lug Jack Cable Assembly using TWCH-78-2 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.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

L-com CAD Drawing

3		2		1	
		REVISION			
ZONE	REV	DESCRIPTION		DATE	APPROVED
	A	INITIAL RELEASE		8/25/2023	KDANG EKIM

LEAD FREE SOLDER

Diagram illustrating the assembly of a TRB 3-LUG JACK cable. The cable is shown with a total length indicated by a dimension line. The assembly consists of a TRB 3-LUG JACK connector at the top, a TRB 2-SLOT PLUG connector at the bottom, and a central cable section. The central cable section features a label with the text "WWW.L-COM.COM" and "LCXXXXXX-XX". Arrows point from the text "LABEL SEE NOTE 1 & 2" to the label on the cable. Arrows also point from the text "TRB 3-LUG JACK", "TRB 2-SLOT PLUG", and "TWCH-78-2, 78 OHM TWINAX CABLE JACKET: FR HALOGEN, BLUE NOM. DIA.: 242" [6.15] to their respective components.

WIRING MAP

NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
CABLE ASSEMBLY LENGTH DETERMINED BY ILLUSTRATED:
LC3MSA00605-XX (-XX = OAL IN INCHES)
CABLES ASSEMBLED SHALL BE TESTED FOR CONTINUITY
2. 3.

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 L-com an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
		SCALE	SHEET 1 OF 1
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES TOLERANCES ARE IN MILLIMETERS		 FRACTIONS $X = 2.2 [5]$ $XX = \pm 0.02 [0.3]$ $XXX = \pm 0.002 [0.03]$	
CABLE LENGTH TOLERANCES: $\leq 12 [305]$ $\leq 12 [305]$ $\leq 12 [305]$ $\leq 60 [1524]$ $\leq 120 [3048]$ $\leq 120 [3048]$ $\leq 300 [7620]$ $\leq 300 [7620]$ $\leq 300 [7620]$		ANGLES $\pm 1^\circ$ $\leq 12 [305]$ $\leq 12 [305]$ $\leq 12 [305]$ $\leq 60 [1524]$ $\leq 120 [3048]$ $\leq 120 [3048]$ $\leq 300 [7620]$ $\leq 300 [7620]$ $\leq 300 [7620]$	
		DESCRIPTION LSZH 2-Slot TRB Plug to 3-Lug TRB Jack 1553 Twinax Cable Using 78 Ohm TwCH-78-2	
		WEBSITE: www.L-com.com PHONE: 1.800.341.5266 ITEM NO.: L.C3MSA00605	
		DRAWN BY: KIDANG CAGE CODE: 43321 SIZE: A	
<small>ALL DIMENSIONS ARE FOR REFERENCE ONLY UNDIMENIONED CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY</small>			

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