

Halogen Free TRB 3-Lug Insulated Bulkhead Jack with Bend Relief to Blunt Cut Cable Using 78 Ohm TWCH-78-2, 12" Coax



LC3MSA00405-12

Configuration

- Connector 1: TRB 3-Lug Jack Bulkhead Insulated
- Connector 2: Blunt Cut Genderless
- Cable Type: TWCH-78-2

Features

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

Applications

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

Description

L-com's LC3MSA00405-12 is a halogen free TRB 3-Lug insulated bulkhead jack with bend relief to blunt cut cable using 78 Ohm TWCH-78-2, 12" coax and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 3-Lug to Blunt Cut cable assembly has a jack to genderless gender configuration with 78 Ohm flexible TWCH-78-2 series coax and operates to 500 MHz. L-com's LC3MSA00405-12 is a halogen free, TRB insulated bulk head 3-lug cable jack with bend relief to blunt MIL-STD-1553 .242" O.D. 78 ohm, Twinaxial shielded twisted pair cable assembly from L-Com. These cable assemblies have popular TRB jack connectors with 3-lug bayonet coupling designs. These MIL-STD-1553 Twinaxial cable assemblies with TRB connector interface are the most popular cable assemblies used in wide interconnect applications to be used with bus couplers, avionics control boxes, and bus relays.

The LC3MSA00405-12 halogen free, TRB insulated bulk head 3-lug cable jack with bend relief to blunt, Twinaxial shielded twisted pair MIL-STD-1553 cable assemblies are bend/strain relief. These cable assemblies have Twinax connectivity and are ideal for applications such as Aircraft avionics and test labs. These cable assemblies can withstand severe shocks and vibrations, making them critical avionics components. The halogen free, TRB insulated bulk head 3-lug cable jack with bend relief to blunt, Twinaxial shielded twisted pair cable assemblies have a robust design and are easy to use.

L-com has one of the largest in-stock selections of halogen free, TRB insulated bulk head 3-lug cable jack with bend relief to blunt, Twinaxial shielded twisted pair MIL-STD-1553 cable assemblies with same-day shipment. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal halogen free, TRB insulated bulk head 3-lug cable jack with bend relief to blunt, Twinaxial shielded twisted pair MIL-STD-1553 cable assemblies for your requirements.

Custom versions of this TRB 3-Lug jack to TRB 3-Lug genderless 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 LC3MSA00405-12 L-com Halogen Free TRB 3-Lug Insulated Bulkhead Jack with Bend Relief to Blunt Cut Cable Using 78 Ohm TWCH-78-2, 12" Coax 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

Halogen Free TRB 3-Lug Insulated Bulkhead Jack with Bend Relief to Blunt Cut Cable Using 78 Ohm TWCH-78-2, 12" Coax



LC3MSA00405-12

Insertion Loss (Typ.) 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*	12 in [304.8 mm]
Weight	0.09 lbs [40.82 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]
------------------------------	--------------------

Connectors

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

Environmental Specifications

Temperature

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

Halogen Free TRB 3-Lug Insulated Bulkhead Jack with Bend Relief to Blunt Cut Cable Using 78 Ohm TWCH-78-2, 12" Coax



LC3MSA00405-12

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

LC3MSA00405

- **xx**

uu

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

Length

Base Number

Example: LC3MSA00405-12 = 12 inches long cable
LC3MSA00405-100cm = 100 cm long cable

Halogen Free TRB 3-Lug Insulated Bulkhead Jack with Bend Relief to Blunt Cut Cable Using 78 Ohm TWCH-78-2, 12" Coax 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.

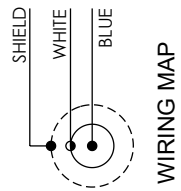
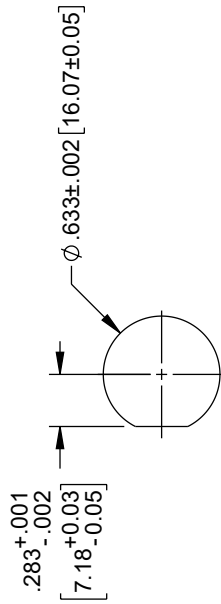
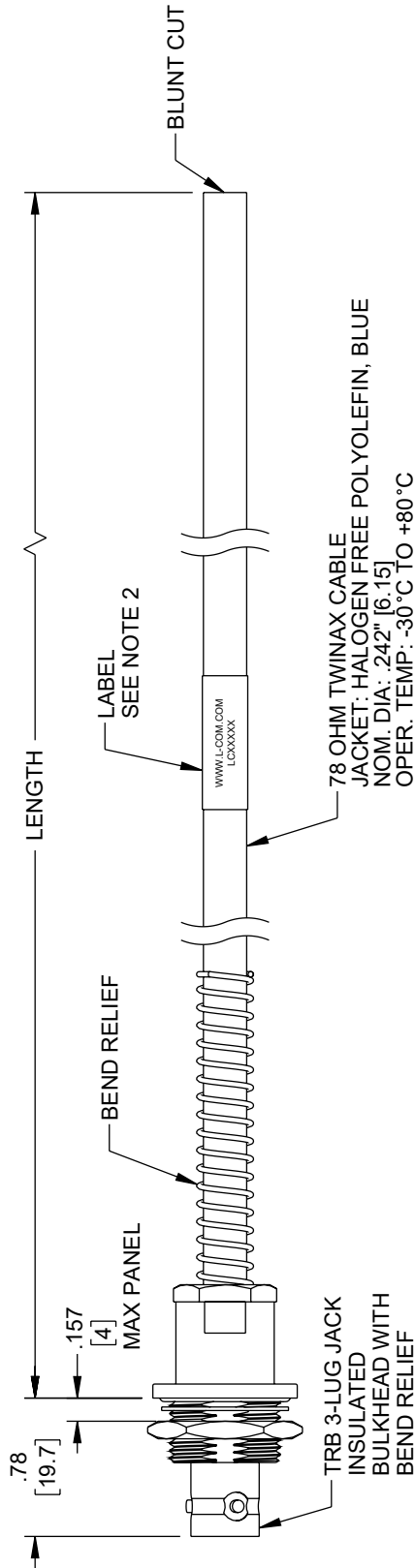
The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such 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.

Halogen Free TRB 3-Lug Insulated Bulkhead Jack with Bend Relief to Blunt Cut Cable Using 78 Ohm TWCH-78-2, 12" Coax

L-com CAD Drawing

ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		A	INITIAL RELEASE	08/04/2023	SREITER	EKIM

REVISION	
1	



NOTES:

- CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY LENGTH DETERMINED BY P/N AS ILLUSTRATED: FM3MSA00405-XX (-XX = OAL IN INCHES)

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

L-com
an INFINITE brand
Website: www.L-com.com
Phone: 1.800.341.5266 | 1.978.682.6936

DESCRIPTION
HALOGEN FREE BEND RELIEF 3-LUG TRB BULKHEAD INSULATED JACK WITH BLUNT CUT FOR 78 OHM TWCH-78-2 CABLE

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	SREITER	LC3MSA00405