

Lead Free LSZH Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Non Insulated Bulkhead Jack for 78 Ohm TWCH-78-2-LC, 12" Cable



LC3MSA00583-12

Configuration

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

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 LC3MSA00583-12 is a lead free LSZH bend relief 3-Slot TRB plug to bend relief 3-Lug TRB non insulated bulkhead jack for 78 Ohm TWCH-78-2-LC, 12" cable 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. L-com's RF cable assembly with TRB 3-Lug bulkhead interface enables system designers to have external connections on their product enclosures or to be used for other rack mount and panel mount applications.

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 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 LC3MSA00583-12 L-com Lead Free LSZH Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Non Insulated Bulkhead Jack for 78 Ohm TWCH-78-2-LC, 12" Cable 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.) | 0.222 | 0.251 | 0.275 | 0.305 | 0.36 | dB |

Electrical Specification Notes:

Lead Free LSZH Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB
Non Insulated Bulkhead Jack for 78 Ohm TWCH-78-2-LC, 12" Cable



LC3MSA00583-12

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 | 0.135 lbs [61.23 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] |
|------------------------------|--------------------|

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|------------------------------|------------------------------|
| Type | TRB 3-Slot Plug | TRB 3-Lug Jack Bulkhead |
| 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 |
|-----------------|------------------|

Lead Free LSZH Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Non Insulated Bulkhead Jack for 78 Ohm TWCH-78-2-LC, 12" Cable



LC3MSA00583-12

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

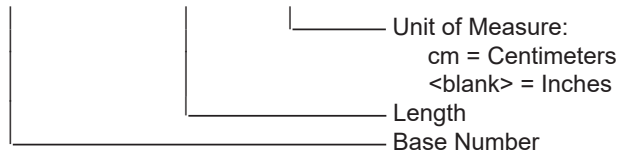
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

LC3MSA00583 - xx uu



Example: LC3MSA00583-12 = 12 inches long cable
LC3MSA00583-100cm = 100 cm long cable

Lead Free LSZH Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Non Insulated Bulkhead Jack for 78 Ohm TWCH-78-2-LC, 12" Cable 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.

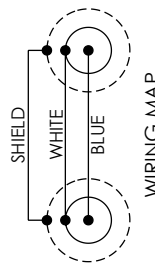
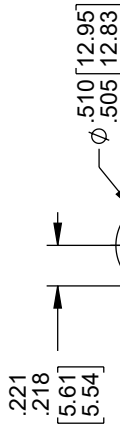
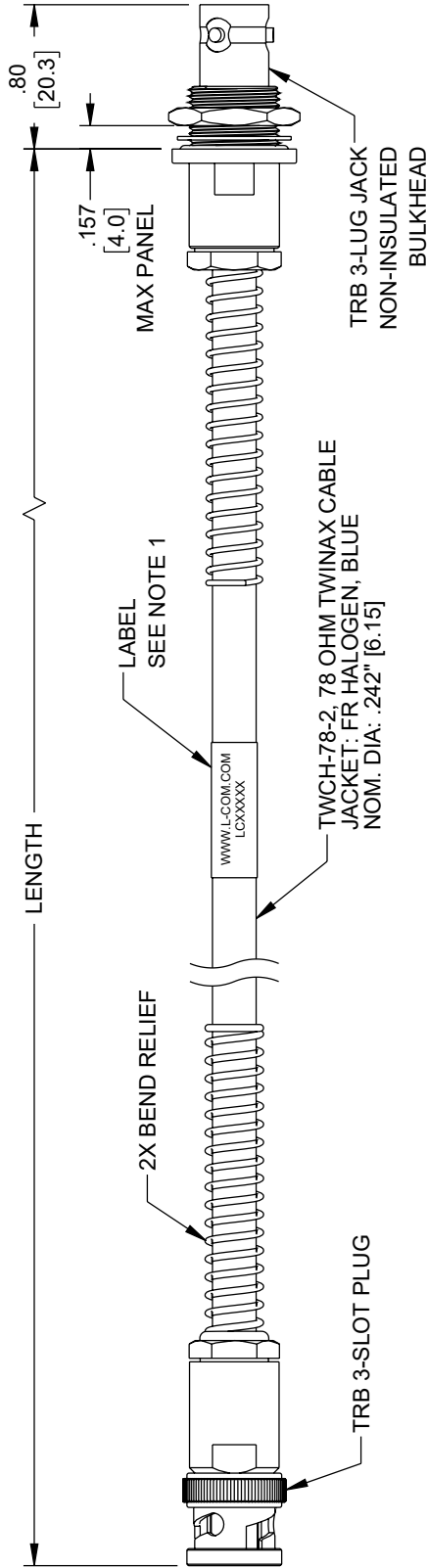
The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such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

Lead Free LSZH Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB
Non Insulated Bulkhead Jack for 78 Ohm TWCH-78-2-LC, 12" Cable

L-com CAD Drawing

| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| A | A | INITIAL RELEASE | 08/11/2023 | DMAY | EKIM |

LEAD FREE SOLDER



RECOMMENDED
PANEL CUTOUT

NOTES:

- 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.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH DETERMINED BY PN AS ILLUSTRATED: LC3MSA00583-XX (-XX = OAL IN INCHES)

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN WHOLE OR IN PART 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.

UNLESS OTHERWISE SPECIFIED, LEAD DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]
 FRACTIONS ± 1/32
 ANGLES ± 1°
 CABLE LENGTH TOLERANCES:
 ≤12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
 SCALE NONE
 SHEET 1 OF 1

DESCRIPTION
 LEAD FREE LSZH BEND RELIEF 3-SLOT TRB PLUG TO BEND RELIEF 3-LUG TRB NON INSULATED BULKHEAD JACK FOR 78 OHM TWCH-78-2 CABLE

| REV | SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
|-----|------|-----------|----------|-------------|
| A | A | 43321 | DMAY | LC3MSA00583 |