

Lead Free 1553 TRB 3-Lug Jack Bulkhead Non-Isolated to TRB 3-Lug Jack Bulkhead Non-Isolated Cable Assembly using M17/176-00002 Coax, 4 FT

#### LC3MSA00448-48

# Configuration

- · Connector 1: TRB 3-Lug Jack Bulkhead NonIsolated
- · Connector 2: TRB 3-Lug Jack Bulkhead NonIsolated
- Cable Type: M17/176-00002

#### **Features**

- MIL-STD-1553
- -55°C to +200°C

### 78 ohms

MIL-STD-1553

#### **Applications**

- · Vehicle High Temperature
- Data

### **Description**

L-com's LC3MSA00448-48 is a lead free 1553 TRB 3-Lug jack bulkhead non-isolated to TRB 3-Lug jack bulkhead non-isolated cable assembly using M17/176-00002 coax, 4 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 3-Lug to TRB 3-Lug cable assembly has a jack to jack gender configuration with 78 Ohm flexible M17/176-00002 series coax and operates to 10 MHz.

Custom versions of this TRB 3-Lug jack to TRB 3-Lug 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 LC3MSA00448-48 L-com Lead Free 1553 TRB 3-Lug Jack Bulkhead Non-Isolated to TRB 3-Lug Jack Bulkhead Non-Isolated Cable Assembly using M17/176-00002 Coax, 4 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

#### **Electrical Specifications**

Minimum	Typical	Maximum	Units
DC		10	MHz
	24 [78.74]		pF/ft [pF/m]
		750,000	Vrms
		DC	DC 10 24 [78.74]

# Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	7	10	MHz
Insertion Loss (Typ.)	0.256	0.284	0.312	0.34	0.38	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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# **Mechanical Specifications**

**Cable Assembly** 

Length\* 48 in [121.92 cm]
Weight 0.19 lbs [86.18 g]

Cable

Cable TypeM17/176-00002Impedance78 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopper, Silver

Dielectric Type PTFE
Shield Layer 1 Silver Plated Copper

Jacket Material PFA, Blue

One Time Minimum Bend Radius 1.5 in [38.1 mm]

#### **Connectors**

Description	Connector 1	Connector 2		
Туре	TRB 3-Lug Jack Bulkhead NonIsolated	TRB 3-Lug Jack Bulkhead NonIsolated		
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 -55 to +200 deg C

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:



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### **How to Order**



Example: LC3MSA00448-12 = 12 inches long cable LC3MSA00448-100cm = 100 cm long cable

Lead Free 1553 TRB 3-Lug Jack Bulkhead Non-Isolated to TRB 3-Lug Jack Bulkhead Non-Isolated Cable Assembly using M17/176-00002 Coax, 4 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 impliment 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.ontained 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 impliment 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.

