

Lead Free 1553 TRB 3-Lug Jack Bulkhead Non-Isolated to Blunt Cut Genderless Cable Assembly using 30-02001-LC Coax, 4 FT



## LC3MSA00553-48

### Configuration

- Connector 1: TRB 3-Lug Jack Bulkhead Non-Isolated
- Connector 2: Blunt Cut Genderless
- Cable Type: 30-02001-LC

### Features

- MIL-STD-1553
- -20°C to +75°C
- 78 ohms

### Applications

- MIL-STD-1553
- Data

### Description

L-com's LC3MSA00553-48 is a lead free 1553 TRB 3-Lug jack bulkhead non-isolated to blunt cut genderless cable assembly using 30-02001-LC 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 Blunt Cut cable assembly has a jack to genderless gender configuration with 78 Ohm flexible 30-02001-LC series coax and operates to 400 MHz.

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 LC3MSA00553-48 L-com Lead Free 1553 TRB 3-Lug Jack Bulkhead Non-Isolated to Blunt Cut Genderless Cable Assembly using 30-02001-LC Coax, 4 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		400	MHz
Capacitance		19.7 [64.63]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms

#### 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*	48 in [121.92 cm]
Weight	0.223 lbs [101.15 g]

#### Cable

Cable Type	30-02001-LC
Impedance	78 Ohms

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## LC3MSA00553-48

Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Shield Layer 1	Silver Plated Copper
Jacket Material	PVC, Blue
One Time Minimum Bend Radius	2.42 in [61.47 mm]

### Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Lug Jack Bulkhead Nonisolated	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 -20 to +75 deg C

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

### Plotted and Other Data

Notes:

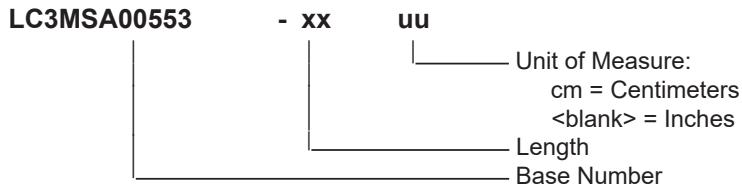
Lead Free 1553 TRB 3-Lug Jack Bulkhead Non-Isolated to Blunt Cut  
Genderless Cable Assembly using 30-02001-LC Coax, 4 FT



## LC3MSA00553-48

### How to Order

Part Number Configuration:



Example: LC3MSA00553-12 = 12 inches long cable  
LC3MSA00553-100cm = 100 cm long cable

Lead Free 1553 TRB 3-Lug Jack Bulkhead Non-Isolated to Blunt Cut Genderless Cable Assembly using 30-02001-LC 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 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.

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L-com CAD Drawing

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LEAD FREE SOLDER

Technical drawing of a coaxial cable assembly. The drawing shows a side view of the cable with various dimensions and component labels:

- LENGTH:** The total length of the cable is indicated by a dimension line with a value of **.80** [20.3].
- MAX PANEL:** The distance from the center of the connector to the end of the cable is **.157** [4.0].
- BLUNT CUT:** An arrow points to the end of the cable, labeled **BLUNT CUT**.
- 78 OHM TWINAX CABLE:** The cable is labeled **78 OHM TWINAX CABLE**.
- JACKET: PVC, BLUE**
- NOM. DIA: .242" [6.15]**
- TRB 3-LUG JACK:** The connector is labeled **TRB 3-LUG JACK**.
- NON-ISOLATED BULKHEAD**
- WWW.L-COM.COM**
- LCXXXXXX-XX**
- SEE NOTE 1 & 2**
- LABEL**

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**NOTES:**

<b>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.</b>	
<b>CABLE ASSEMBLY LENGTH DETERMINED BY ILLUSTRATED: LC3MMSA0053-XX (-XX = OAL IN INCHES)</b>	
<b>CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.</b>	
<b>1.</b>	
<b>2.</b>	
<b>3.</b>	

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Using 78 Ohm 30-02001-LC Coax  
 DRAWN BY KDANG  
 ITEM NO. I C3MSA00553  
 REV A  
 DATE 01/01/01  
 CAGE NO. A 43321  
 SIZE A  
 UN-DIMENSIONED DRAWING  
 FOR REFERENCE ONLY  
 AND SUBJECT TO CHANGE  
 WITHOUT NOTICE  
 UN-DIMENSIONED FEATURES  
 MAY VARY IN SIZE AND LOCATION

CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL  
ADDRESS CENTERED; LONGER THAN 36 INCHES, TWO LABELS ADJACENT

 -C000<sup>®</sup>  
UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN ( ) ARE MILLIMETERS  
TOLERANCES: