

1553 TRB 3-Slot Plug to TRB 3-Slot Plug Cable Assembly using 30-02003-LC Coax, 4 FT with Bend Relief , LF Solder



### LC3MSA00475-48

# Configuration

Connector 1: TRB 3-Slot Plug
Connector 2: TRB 3-Slot Plug
Cable Type: 30-02003-LC

### **Features**

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

# **Applications**

- MIL-STD-1553
- Data

- · Lab rated
- · Lead Free
- Bend Relief
- · Lab applications

## **Description**

L-com's LC3MSA00475-48 is a 1553 TRB 3-Slot plug to TRB 3-Slot plug cable assembly using 30-02003-LC coax, 4 FT with bend relief, LF solder 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-Slot cable assembly has a plug to plug gender configuration with 78 Ohm flexible 30-02003-LC series coax and operates to 500 MHz. The LC3MSA00475 it's a Lead Free assembly consisting of a Bend Relief 3-slot solder/clamp TRB plug to Bend Relief 3-slot solder/clamp TRB plug for FMBC-30-02003, that is a standard lab-rated PVC cable for MIL-STD-1553 applications, with an O.D. 0.150". These cable assemblies come with a 1.700" steel spring-style bend relief that helps to minimize cable damage when exceeding the cables minimum bend radius. These assemblies are built to withstand severe shocks and vibrations.

Custom versions of this TRB 3-Slot plug to TRB 3-Slot plug 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 LC3MSA00475-48 L-com 1553 TRB 3-Slot Plug to TRB 3-Slot Plug Cable Assembly using 30-02003-LC Coax, 4 FT with Bend Relief, LF Solder 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		20.3 [66.6]		pF/ft [pF/m]
Operating Voltage (AC)			300	Vrms
Operating voltage (AC)			300	Vrms

# Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	10	50	100	200	500	MHz
Insertion Loss (Typ.)	0.42	0.68	0.88	1.15	1.7	dB

**Electrical Specification Notes:** 



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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 0.4 lbs [181.44 g]

Cable

Cable Type30-02003-LCImpedance78 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopper, Silver

Dielectric Type F

Shield Layer 1 Silver Plated Copper

Jacket Material PVC, Blue

One Time Minimum Bend Radius 1.5 in [38.1 mm]

### **Connectors**

Description	Connector 1	Connector 2	
Туре	TRB 3-Slot Plug	TRB 3-Slot Plug	
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 -20 to +75 deg C



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## LC3MSA00475-48

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

### **How to Order**

Part Number Configuration:

LC3MSA00475 - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
chlank> = Inches
<br/>
Length
<br/>
Base Number

Example: LC3MSA00475-12 = 12 inches long cable

LC3MSA00475-100cm = 100 cm long cable

1553 TRB 3-Slot Plug to TRB 3-Slot Plug Cable Assembly using 30-02003-LC Coax, 4 FT with Bend Relief, LF Solder 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.

