

High Temperature 3-Slot Full Crimp Plug to Plug, 24 inch M17/176-00002-LC Twinax Cable

# LC3CA2001-24



# Configuration

Connector 1: TRB 3-Slot Plug Connector 2: TRB 3-Slot Plug · Cable Type: M17/176-00002-LC

#### **Features**

• MIL-STD-1553 -55°C to +200°C

## • 78 ohms

## **Applications**

- MIL-STD-1553
- · Vehicle High Temperature

- · Laboratory Implementations
- Data

## **Description**

L-com's LC3CA2001-24 is a high temperature 3-Slot full crimp plug to plug, 24 inch M17/176-00002-LC twinax 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-Slot cable assembly has a plug to plug gender configuration with 78 Ohm flexible M17/176-00002-LC series coax and operates to 10 MHz.

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 LC3CA2001-24 L-com High Temperature 3-Slot Full Crimp Plug to Plug, 24 inch M17/176-00002-LC Twinax 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		10	MHz
Capacitance		24 [78.74]		pF/ft [pF/m]
Operating Voltage (AC)			750,000	Vrms

# Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	7	10	MHz
Insertion Loss (Typ.)	0.228	0.242	0.256	0.27	0.29	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\* 24 in [609.6 mm] Weight 0.134 lbs [60.78 g]

Cable

Cable Type M17/176-00002-LC 78 Ohms

Impedance Inner Conductor Type Stranded Inner Conductor Material and Plating Copper, 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-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** 

-55 to +200 deg C Operating Range

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:

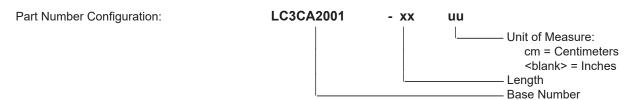


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## **How to Order**



Example: LC3CA2001-12 = 12 inches long cable

LC3CA2001-100cm = 100 cm long cable

High Temperature 3-Slot Full Crimp Plug to Plug, 24 inch M17/176-00002-LC Twinax 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 instock 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.

