

Lead Free 1553 TRB 2-Slot Plug to Blunt Cut Genderless Cable Assembly using M17/176-00002 Coax, 4 FT with Bend Relief



**LC3MSA00465-48**

**Configuration**

- Connector 1: TRB 2-Slot Plug
- Connector 2: Blunt Cut Genderless
- Cable Type: M17/176-00002

**Features**

- MIL-STD-1553
- -55°C to +200°C
- 78 ohms

**Applications**

- Vehicle High Temperature
- Data
- MIL-STD-1553

**Description**

L-com's LC3MSA00465-48 is a lead free 1553 TRB 2-Slot plug to blunt cut genderless cable assembly using M17/176-00002 coax, 4 FT with bend relief and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 2-Slot to Blunt Cut cable assembly has a plug to genderless gender configuration with 78 Ohm flexible M17/176-00002 series coax and operates to 10 MHz.

Custom versions of this TRB 2-Slot plug to TRB 2-Slot 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 LC3MSA00465-48 L-com Lead Free 1553 TRB 2-Slot Plug to Blunt Cut Genderless Cable Assembly using M17/176-00002 Coax, 4 FT with Bend Relief 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

**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 0.092 lbs [41.73 g]

**Cable**

- Cable Type M17/176-00002
- Impedance 78 Ohms

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## LC3MSA00465-48

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
Type	TRB 2-Slot Plug	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 -55 to +200 deg C

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

### Plotted and Other Data

Notes:

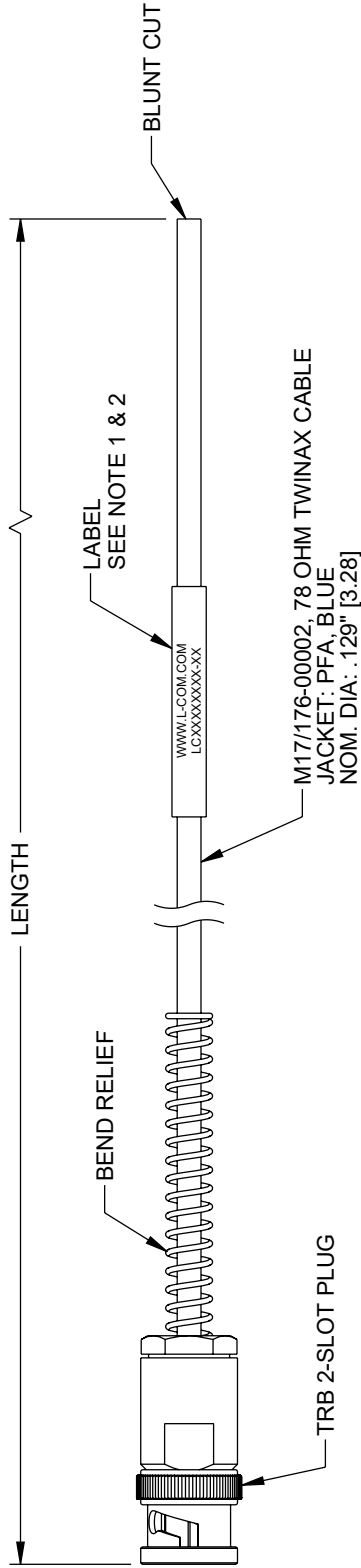


Lead Free 1553 TRB 2-Slot Plug to Blunt Cut Genderless Cable Assembly  
using M17/176-00002 Coax, 4 FT with Bend Relief

L-com CAD Drawing

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	8/25/2023	KDANG	EKIM

LEAD FREE SOLDER



M17/176-00002, 78 OHM TWINAX CABLE  
JACKET: PFA, BLUE  
NOM. DIA: .129" [3.28]

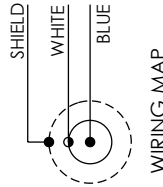
LABEL  
SEE NOTE 1 & 2

BLUNT CUT

LENGTH

BEND RELIEF

TRB 2-SLOT PLUG



WIRING MAP

NOTES:

- 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.
- CABLE ASSEMBLY LENGTH DETERMINED BY ILLUSTRATED: LC3MSA00465-XX (-XX = OAL IN INCHES)
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	± 1/64
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
<12 [305]	± 1/25 [/-0]
>12 [305] < 60 [1524]	± 1/20 [/-0]
>60 [1524] < 120 [3048]	± 1/16 [/-0]
>120 [3048] < 300 [7620]	± 1/8 [/-0]
>300 [7620]	± 3/16 [/-0]
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS OTHERWISE SPECIFIED. DIMENSIONS MAY VARY. COLORS MAY VARY.	

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

DESCRIPTION		ITEM NO.
Lead Free Bend Relief 2-Slot TRB Plug with Blunt Cut 1553 Cable Using 78 Ohm M17/176-00002 Twinax		LC3MSA00465
SIZE	DRAWN BY	REV
A	KDANG	A