

Lead Free 1553 TRB 2-Slot Plug to Blunt Cut Genderless Cable Assembly using 30-02001-LC Coax, 1 FT



**LC3MSA00569-12**

**Configuration**

- Connector 1: TRB 2-Slot Plug
- 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 LC3MSA00569-12 is a lead free 1553 TRB 2-Slot plug to blunt cut genderless cable assembly using 30-02001-LC coax, 1 FT 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 30-02001-LC series coax and operates to 400 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 LC3MSA00569-12 L-com Lead Free 1553 TRB 2-Slot Plug to Blunt Cut Genderless Cable Assembly using 30-02001-LC Coax, 1 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

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	10	50	100	200	400	MHz
Insertion Loss (Typ.)	0.221	0.25	0.275	0.31	0.36	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.

Lead Free 1553 TRB 2-Slot Plug to Blunt Cut Genderless  
Cable Assembly using 30-02001-LC Coax, 1 FT



## LC3MSA00569-12

### Mechanical Specifications

#### Cable Assembly

Length*	12 in [304.8 mm]
Weight	0.1078 lbs [48.9 g]

#### Cable

Cable Type	30-02001-LC
Impedance	78 Ohms
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]
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### 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

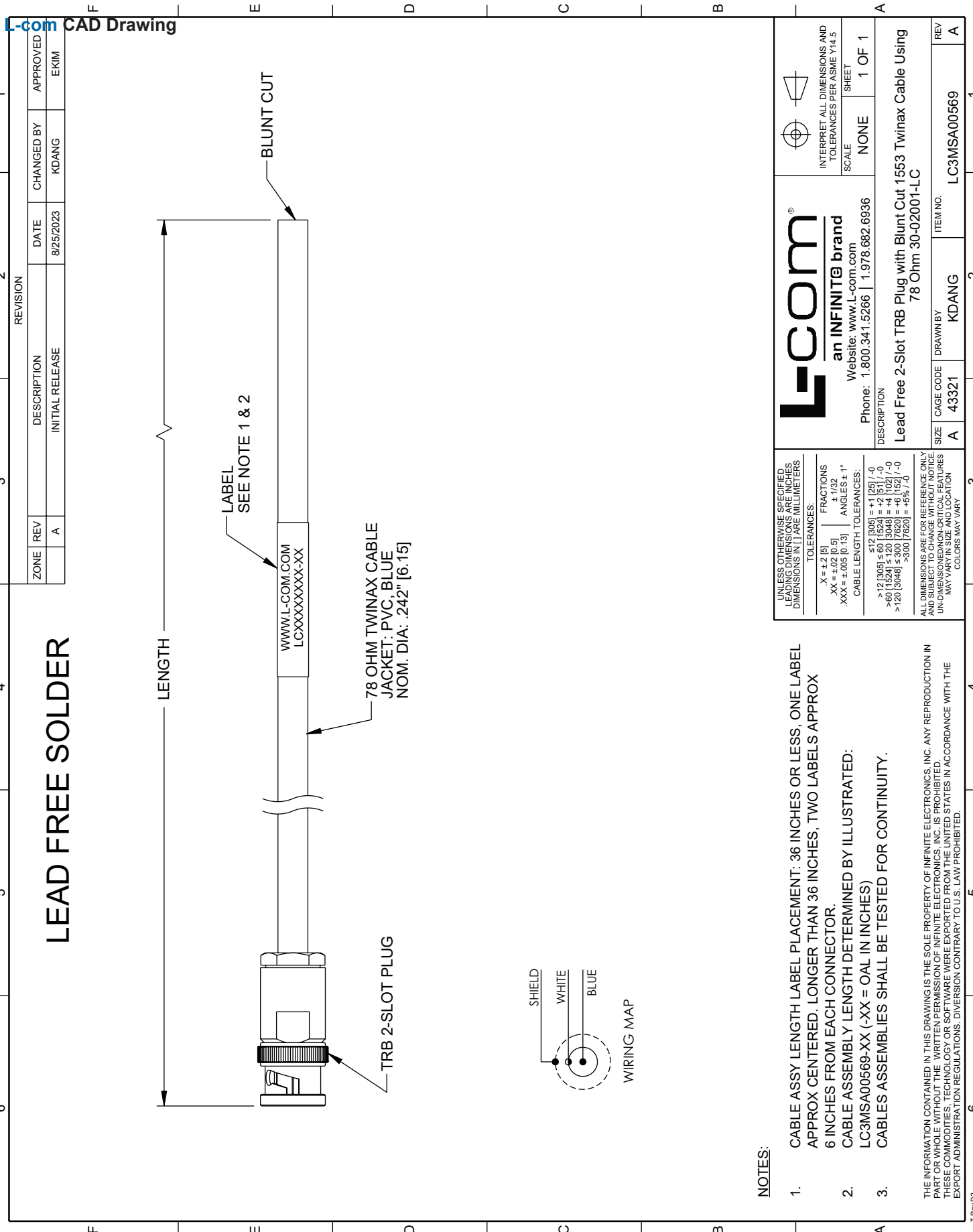
Operating Range	-20 to +75 deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:





L-com CAD Drawing

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

**LEAD FREE SOLDER**

**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: LC3MSA00569-XX (-XX = OAL IN INCHES)
  - CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

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]	±2.5 [-0]
>60 [1524] < 120 [3048]	±4 [102] [-0]
>120 [3048] < 300 [7620]	±6 [152] [-0]
>300 [7620]	±5% [-0]

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

DESCRIPTION: Lead Free 2-Slot TRB Plug with Blunt Cut 1553 Twinax Cable Using 78 Ohm 30-02001-LC

SIZE: A CAGE CODE: 43321 DRAWN BY: KDANG ITEM NO.: LC3MSA00569

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A	INITIAL RELEASE	8/25/2023	KDANG	EKIM