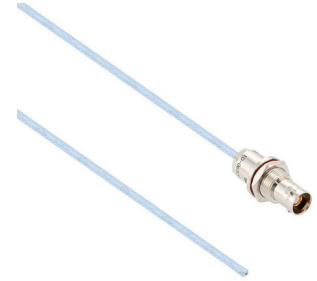


Lead Free 1553 TRB 3-Lug Jack Bulkhead Non-Isolated to Blunt Cut Genderless Cable Assembly using M17/176-00002 Coax, 5 FT



## LC3MSA00449-60

### Configuration

- Connector 1: TRB 3-Lug Jack Bulkhead Nonisolated
- 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 LC3MSA00449-60 is a lead free 1553 TRB 3-Lug jack bulkhead non-isolated to blunt cut genderless cable assembly using M17/176-00002 coax, 5 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 M17/176-00002 series coax and operates to 10 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 LC3MSA00449-60 L-com Lead Free 1553 TRB 3-Lug Jack Bulkhead Non-Isolated to Blunt Cut Genderless Cable Assembly using M17/176-00002 Coax, 5 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		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\* 60 in [152.4 cm]
- Weight 0.149 lbs [67.59 g]

#### Cable

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

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## LC3MSA00449-60

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 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 -55 to +200 deg C

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

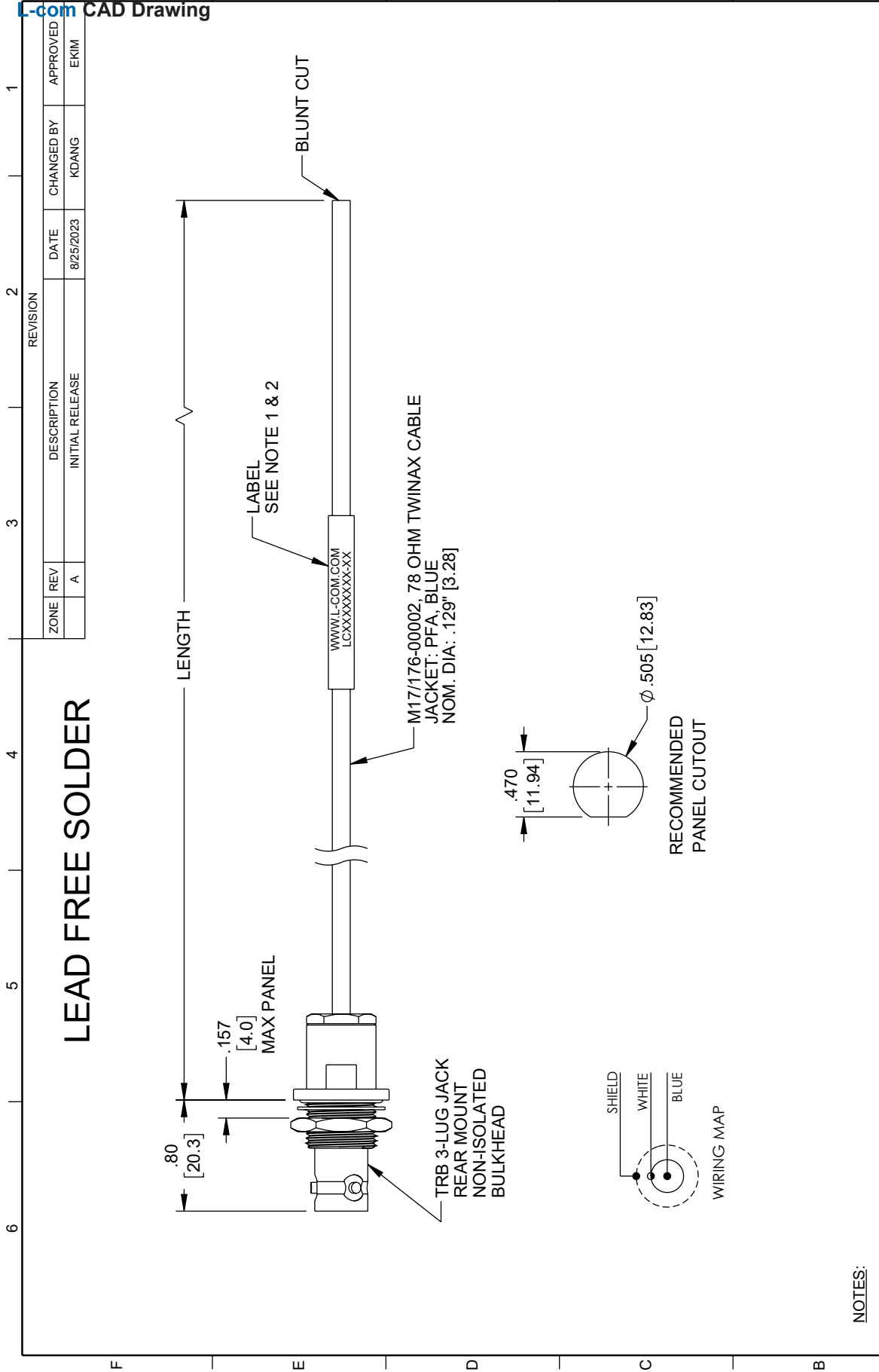
### Plotted and Other Data

Notes:



Lead Free 1553 TRB 3-Lug Jack Bulkhead Non-Isolated to Blunt Cut Genderless Cable Assembly using M17/176-00002 Coax, 5 FT

L-com CAD Drawing



**LEAD FREE SOLDER**

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

REVISION

1

2

3

4

5

6

LENGTH

BLUNT CUT

LABEL  
SEE NOTE 1 & 2

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

WWW.L-COM.COM  
LCXXXXXXXXXX

TRB 3-LUG JACK  
REAR MOUNT  
NON-ISOLATED  
BULKHEAD

MAX PANEL

SHIELD  
WHITE  
BLUE  
WIRING MAP

RECOMMENDED  
PANEL CUTOUT

UNLESS OTHERWISE SPECIFIED,  
LEADING DIMENSIONS ARE IN INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

X = ±.2 [5]  
XX = ±.02 [0.5]  
.XXX = ±.005 [0.13]

FRACTIONS  
± 1/32

ANGLES ± 1°

CABLE LENGTH TOLERANCES:

<12 [305] ±.125 [-0  
>12 [305] ≤ 60 [1524] = ±.25 [6.35] / -0  
>60 [1524] ≤ 120 [3048] = ±.5 [12.7] / -0  
>120 [3048] ≤ 300 [7620] = ±.75 [19.05] / -0  
>300 [7620] = ±.75 [19.05] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY  
AND SUBJECT TO CHANGE WITHOUT NOTICE  
UNDIMENSIONED NON-CRITICAL FEATURES  
MAY VARY  
COLORS MAY VARY

**L-com**  
an INFINITE brand  
Website: www.L-com.com  
Phone: 1.800.341.5266 | 1.978.682.6936

INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5  
SCALE SHEET 1 OF 1

DESCRIPTION  
Lead Free 3-Lug TRB Non-Insulated Bulkhead Jack with Blunt Cut for  
78 Ohm M17/176-00002 Cable

SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV  
A | 43321 | KDANG | LC3MSA00449 | A

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: LC3MSA00449-XX (-XX = OAL IN INCHES)
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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TRFWD2

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