

Lead Free Threaded TRB Plug to 3-Lug TRB Bulkhead Insulated Jack for 78 Ohm 30-2001-LC, 48" Cable



**LC3MSA00564-48**

**Configuration**

- Connector 1: TRT Plug
- Connector 2: TRB 3-Lug Jack Bulkhead
- Cable Type: 30-2001-LC

**Features**

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

**Applications**

- MIL-STD-1553
- Data

**Description**

L-com's LC3MSA00564-48 is a lead free threaded TRB plug to 3-Lug TRB bulkhead insulated jack for 78 Ohm 30-2001-LC, 48" cable and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRT to TRB 3-Lug cable assembly has a plug to jack gender configuration with 78 Ohm flexible 30-2001-LC series coax and operates to 400 MHz. L-com's RF cable assembly with TRB 3-Lug bulkhead interface enables system designers to have external connections on their product enclosures or to be used for other rack mount and panel mount applications.

Custom versions of this TRT plug to TRT jack 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 LC3MSA00564-48 L-com Lead Free Threaded TRB Plug to 3-Lug TRB Bulkhead Insulated Jack for 78 Ohm 30-2001-LC, 48" 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		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.)	0.29	0.4	0.5	0.64	0.84	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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## LC3MSA00564-48

### Mechanical Specifications

#### Cable Assembly

Length*	48 in [121.92 cm]
Weight	0.306 lbs [138.8 g]

#### Cable

Cable Type	30-2001-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	TRT Plug	TRB 3-Lug Jack Bulkhead
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

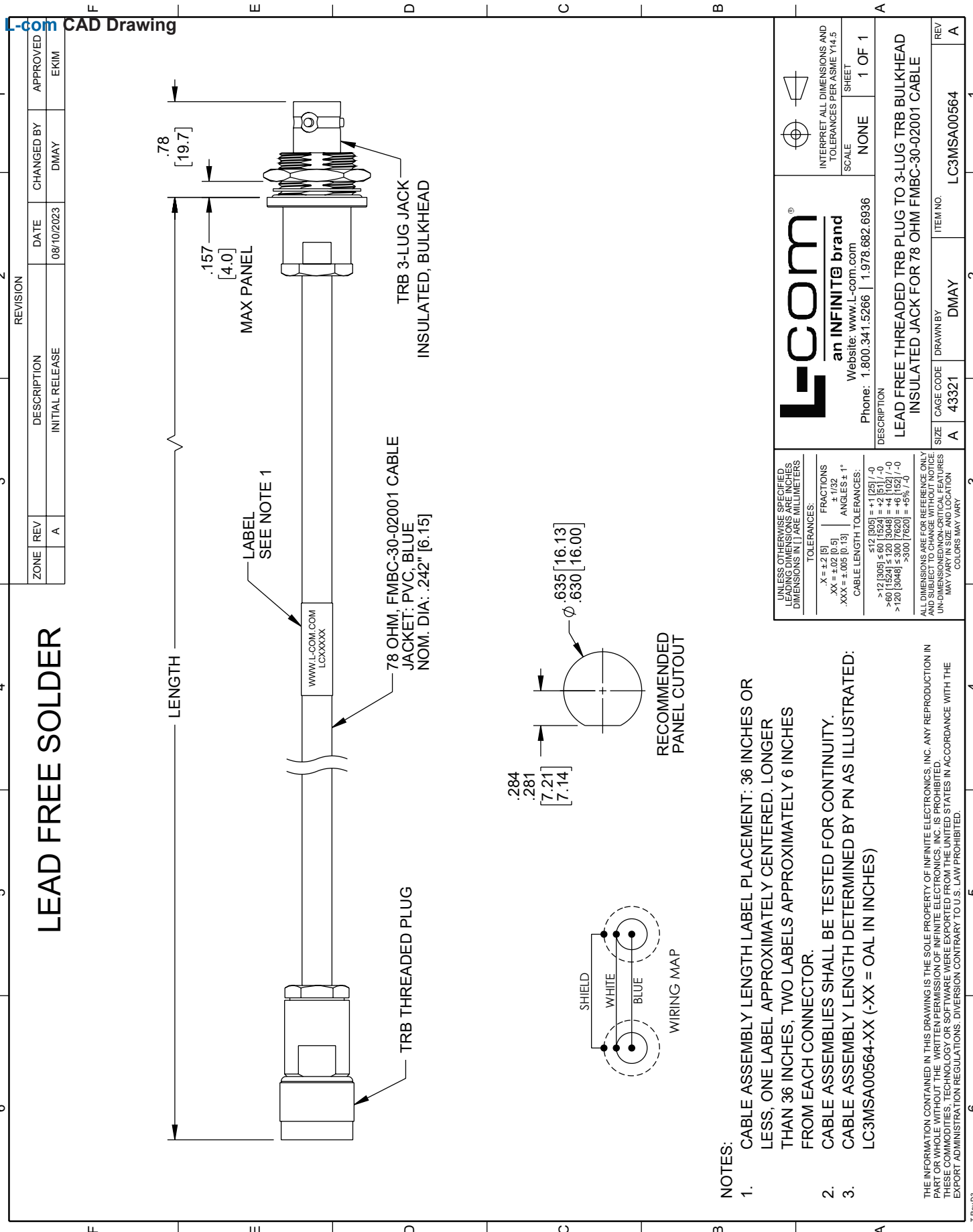
Operating Range	-20 to +75 deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

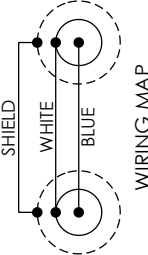
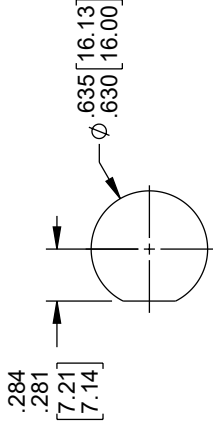
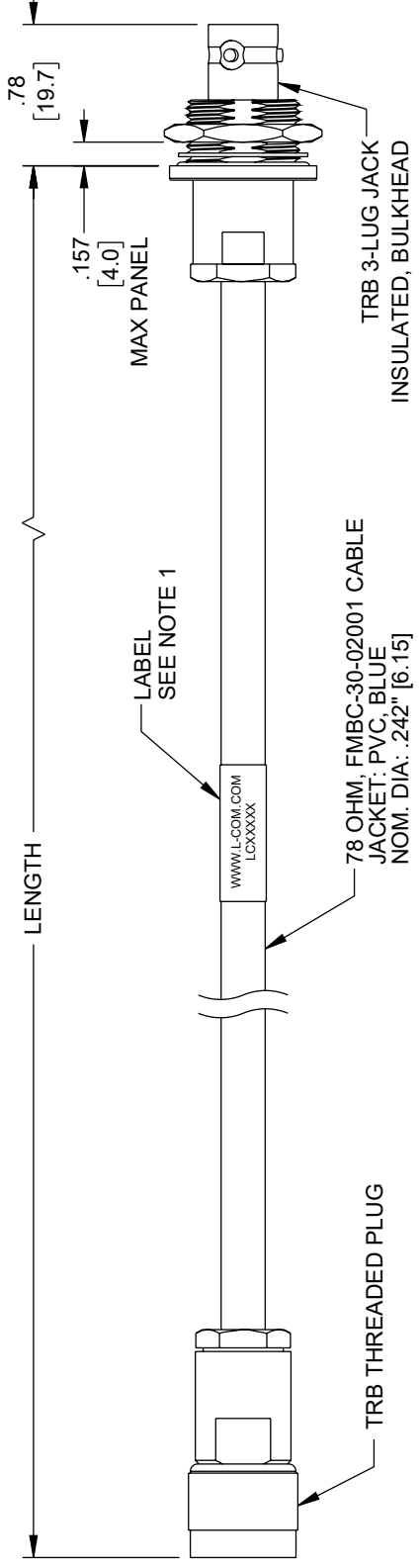
Notes:





**LEAD FREE SOLDER**

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A	A	INITIAL RELEASE	08/10/2023	DMAY	EKIM



**NOTES:**

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY PN AS ILLUSTRATED: LC3MSA00564-XX (-XX = OAL IN INCHES)

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Website: www.L-com.com  
Phone: 1.800.341.5266 | 1.978.682.6936

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

TOLERANCES:

X = ±.2 [5]	FRACTIONS ± 1/32
XX = ±.02 [0.5]	ANGLES ± 1°
XXX = ±.005 [0.13]	CABLE LENGTH TOLERANCES:

<12 [305] ≤ +1 [25] / -0  
>12 [305] ≤ 60 [1524] = +2 [51] / -0  
>60 [1524] ≤ 120 [3048] = +4 [102] / -0  
>120 [3048] ≤ 300 [7620] = +6 [152] / -0  
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS INDICATED OTHERWISE. DIMENSIONAL VARIATION MAY VARY. COLORS MAY VARY.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

DESCRIPTION  
LEAD FREE THREADED TRB PLUG TO 3-LUG TRB BULKHEAD INSULATED JACK FOR 78 OHM FMBC-30-02001 CABLE

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	DMAY	LC3MSA00564

REV A