

Lead Free 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm 30-2003-LC, 60" Cable



## LC3MSA00484-60

### Configuration

- Connector 1: TRB 3-Lug Jack
- Connector 2: TRB 3-Lug Jack
- Cable Type: 30-2003-LC

### Features

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

### Applications

- MIL-STD-1553
- Data

### Description

L-com's LC3MSA00484-60 is a lead free 3-Lug TRB bulkhead insulated jack to jack for 78 Ohm 30-2003-LC, 60" cable and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 3-Lug to TRB 3-Lug cable assembly has a jack to jack gender configuration with 78 Ohm flexible 30-2003-LC series coax and operates to 500 MHz.

Custom versions of this TRB 3-Lug jack to TRB 3-Lug 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 LC3MSA00484-60 L-com Lead Free 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm 30-2003-LC, 60" 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		500	MHz
Capacitance		20.3 [66.6]		pF/ft [pF/m]
Operating Voltage (AC)			300	Vrms

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	10	50	100	200	500	MHz
Insertion Loss (Typ.)	0.465	0.795	1.04	1.385	2.075	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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Jack for 78 Ohm 30-2003-LC, 60" Cable



**LC3MSA00484-60**

**Mechanical Specifications**

**Cable Assembly**

Length\* 60 in [152.4 cm]  
Weight 0.22 lbs [99.79 g]

**Cable**

Cable Type 30-2003-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 1.5 in [38.1 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	TRB 3-Lug Jack	TRB 3-Lug Jack
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

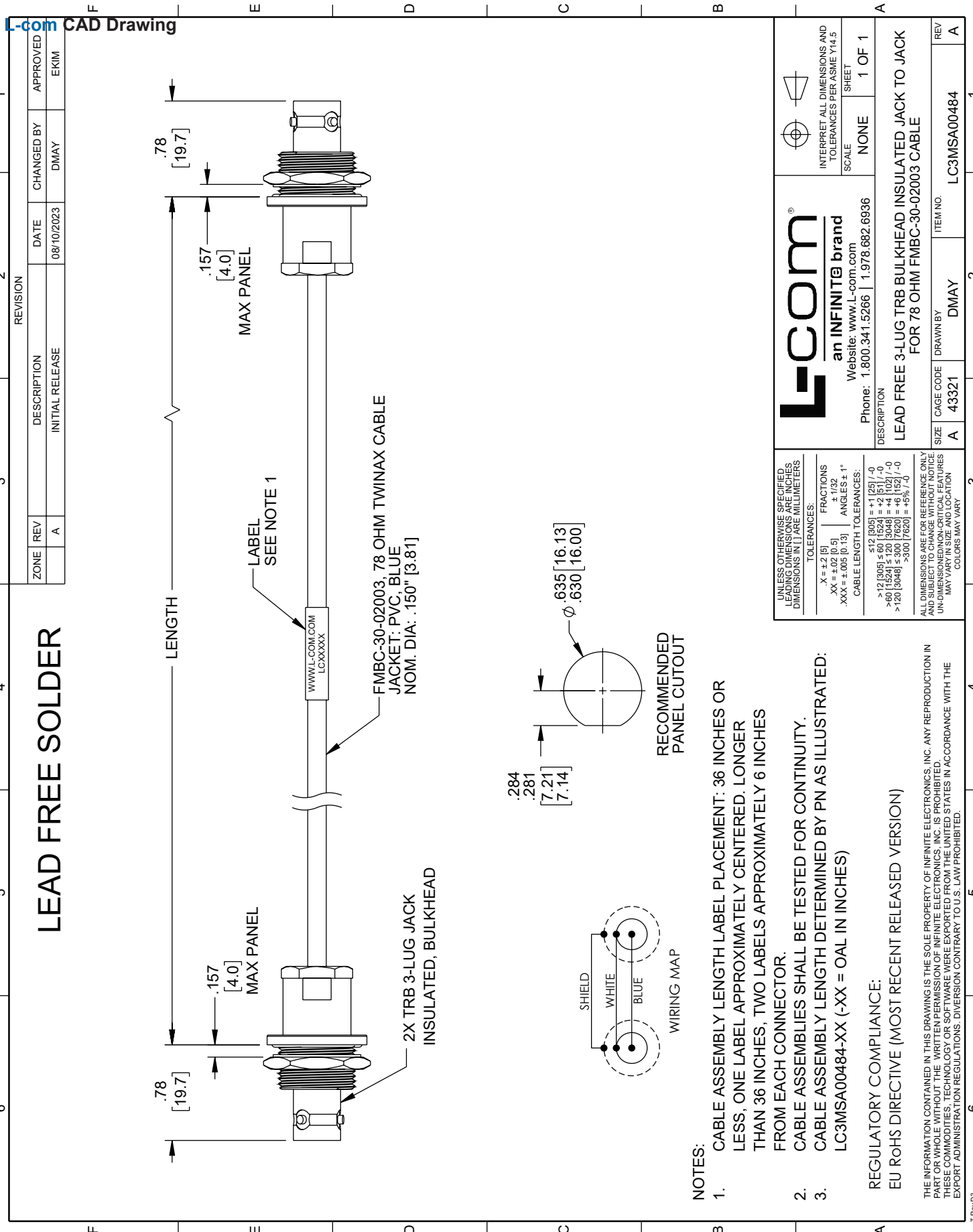
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:



# Lead Free 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm 30-2003-LC, 60" Cable



## LEAD FREE SOLDER

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

LENGTH

MAX PANEL

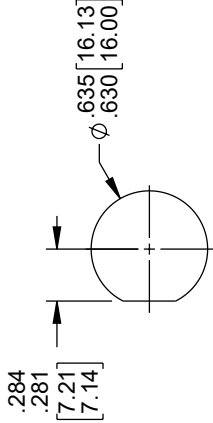
MAX PANEL

WWW.L-COM.COM  
LCXXXXX

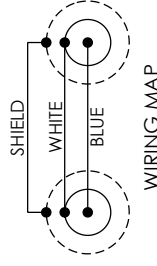
FMBC-30-02003, 78 OHM TWINAX CABLE  
JACKET: PVC, BLUE  
NOM. DIA: .150" [3.81]

2X TRB 3-LUG JACK  
INSULATED, BULKHEAD

Label: SEE NOTE 1



RECOMMENDED  
PANEL CUTOUT



WIRING MAP

### NOTES:

- 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.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH DETERMINED BY PN AS ILLUSTRATED: LC3MSA00484-XX (-XX = OAL IN INCHES)

REGULATORY COMPLIANCE:  
EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

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DESCRIPTION:  
**LEAD FREE 3-LUG TRB BULKHEAD INSULATED JACK TO JACK FOR 78 OHM FMBC-30-02003 CABLE**

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	DMAY	LC3MSA00484

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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] = +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. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY. COLORS MAY VARY.