

## 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead Cable Assembly using 30-02003-LC Coax, 4 FT with Bend Relief



### LC3MP2625-48

#### Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRB 3-Lug Jack Bulkhead
- Cable Type: 30-02003-LC

#### Features

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

#### Applications

- MIL-STD-1553
- Data

#### Description

L-com's LC3MP2625-48 is a 1553 TRB 3-Slot plug to TRB 3-Lug jack bulkhead cable assembly using 30-02003-LC 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 3-Slot to TRB 3-Lug cable assembly has a plug to jack gender configuration with 78 Ohm flexible 30-02003-LC series coax and operates to 500 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 TRB 3-Slot plug to TRB 3-Slot 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 LC3MP2625-48 L-com 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead Cable Assembly using 30-02003-LC 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      |             | 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.) | 0.42 | 0.68 | 0.88 | 1.15 | 1.7 | 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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## LC3MP2625-48

### Mechanical Specifications

#### Cable Assembly

|         |                     |
|---------|---------------------|
| Length* | 48 in [121.92 cm]   |
| Weight  | 0.195 lbs [88.45 g] |

#### Cable

|                                      |                      |
|--------------------------------------|----------------------|
| Cable Type                           | 30-02003-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-Slot 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 |
|-----------------|------------------|

### Compliance Certifications

(see [product page](#) for current document)

### Plotted and Other Data

Notes:

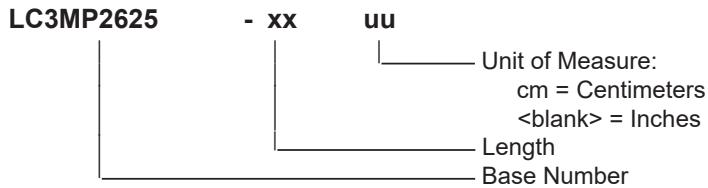
1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead Cable  
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## LC3MP2625-48

### How to Order

Part Number Configuration:



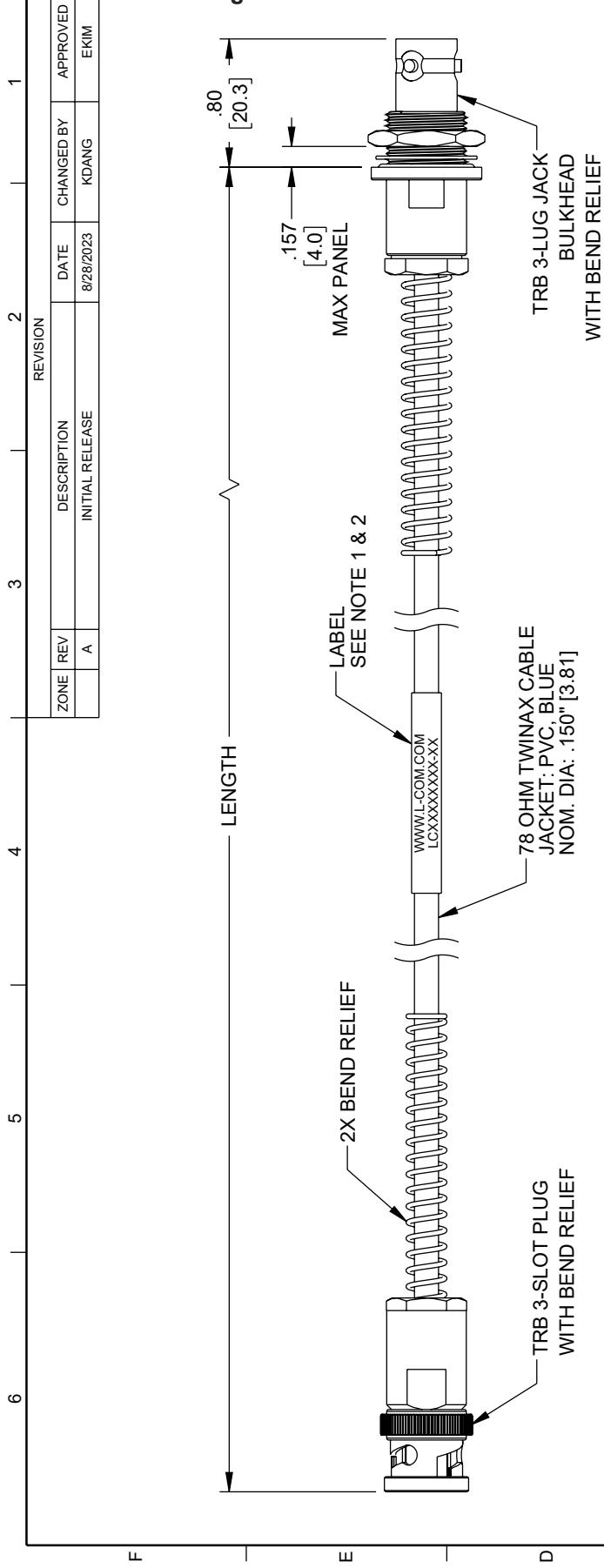
Example: LC3MP2625-12 = 12 inches long cable  
LC3MP2625-100cm = 100 cm long cable

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead Cable Assembly using 30-02003-LC Coax, 4 FT with Bend Relief from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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**L-com CAD Drawing**



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**NOTES:**

1. 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.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ILLUSTRATED: LC3MP2625-XX (-XX = OAL IN INCHES)
3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE ARE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO US LAW PROHIBITED.

|   |  |  |
|---|--|--|
| <b>L-com</b><br>an INFINITE brand   |  | WEBSITE: <a href="http://www.l-com.com">www.l-com.com</a>  |
| PHONE: 1.800.341.5266   1.978.682.6936  |  | DESCRIPTION: Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Bulkhead Jack for 78 Ohm 30-02003-LC Cable |
| UNLESS OTHERWISE SPECIFIED, LEADINGS DIMENSIONS ARE IN MILLIMETERS  |  | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5   |
| TOLERANCES: FRACTIONS: $X = 12.2(5)$ [0.5] $XX = +0.2(0.5)$ [0.13] $XXX = +0.05(0.13)$ [0.05] ANGLES: $^{\circ}$ CABLE LENGTH TOLERANCES: $\leq 12(3.05) \leq 60(1.524) = +1(25) / -0$ $\geq 60(1.524) \leq 120(3.048) = +2(51) / -0$ $\geq 120(3.048) \leq 300(7.620) = +4(102) / -0$ $\geq 300(7.620) = +6(152) / -0$ |  | SCALE: NONE   SHEET: 1 OF 1  |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE. UN-DIMENSIONED COORDINATE FEATURES ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE. COLOR CODES MAY VARY.   |  |  |

REV A  
LC3MP2625  
1

T-Rev-D2