

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable
Assembly using 30-02001-LC Coax, 4 FT



LC3MP2177-48

Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRB 3-Lug Jack
- Cable Type: 30-02001-LC

Features

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

Applications

- MIL-STD-1553
- Data
- Lab applications

Description

L-com's LC3MP2177-48 is a 1553 TRB 3-Slot plug to TRB 3-Lug jack cable assembly using 30-02001-LC coax, 4 FT 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 30-02001-LC series coax and operates to 400 MHz. The LC3MP2177 cable assembly consists of a 3-slot solder/clamp TRB plug to a 3-Lug TRB Solder/Clamp Jack for 30-02001-LC, that is a standard lab-rated PVC cable for MIL-STD-1553 applications. It features a larger diameter cable (0.242" O.D.)

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 LC3MP2177-48 L-com 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly using 30-02001-LC Coax, 4 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.) | 0.29 | 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.

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable
Assembly using 30-02001-LC Coax, 4 FT



LC3MP2177-48

Mechanical Specifications

Cable Assembly

| | |
|---------|----------------------|
| Length* | 48 in [121.92 cm] |
| Weight | 0.333 lbs [151.05 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] |
|------------------------------|--------------------|

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|------------------------------|------------------------------|
| Type | TRB 3-Slot Plug | 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:

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable
Assembly using 30-02001-LC Coax, 4 FT



LC3MP2177-48

How to Order

Part Number Configuration:

LC3MP2177 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

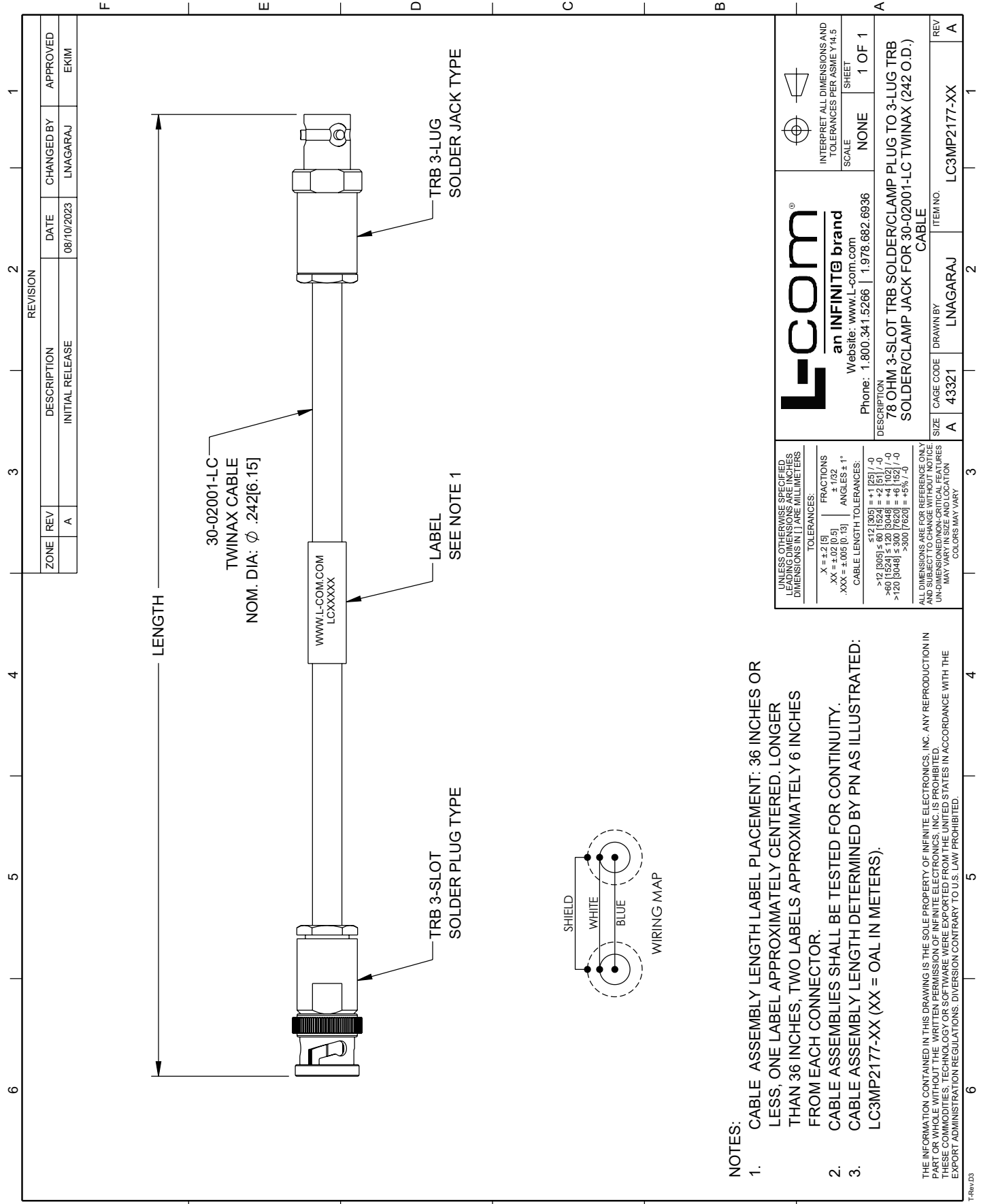
Example: LC3MP2177-12 = 12 inches long cable
LC3MP2177-100cm = 100 cm long cable

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly using 30-02001-LC Coax, 4 FT 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.

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly using 30-02001-LC Coax, 4 FT

L-com CAD Drawing



- 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: LC3MP2177-XX (XX = OAL IN METERS).
- 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 WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.