

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly
using M17/176-00002-LC Coax, 5 FT , LF Solder



LC3MSA00438-60

Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRB 3-Lug Jack
- Cable Type: M17-176-00002-LC

Features

- MIL-STD-1553
- -55°C to +200°C
- 78 ohms

Applications

- Vehicle High Temperature
- Data
- MIL-STD-1553

Description

L-com's LC3MSA00438-60 is a 1553 TRB 3-Slot plug to TRB 3-Lug jack cable assembly using M17/176-00002-LC coax, 5 FT , LF solder 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 M17-176-00002-LC series coax and operates to 10 MHz.

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 LC3MSA00438-60 L-com 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly using M17/176-00002-LC Coax, 5 FT , LF Solder 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 |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-------|------|-------|-------|-------|
| Frequency | 1 | 3 | 5 | 7 | 10 | MHz |
| Insertion Loss (Typ.) | 0.27 | 0.305 | 0.34 | 0.375 | 0.425 | 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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Mechanical Specifications

Cable Assembly

| | |
|---------|----------------------|
| Length* | 60 in [152.4 cm] |
| Weight | 0.367 lbs [166.47 g] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | M17-176-00002-LC |
| Impedance | 78 Ohms |
| 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-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 | -55 to +200 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 M17/176-00002-LC Coax, 5 FT , LF Solder

L-com CAD Drawing

