

LSZH 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly using TWCH-78-2-LC Coax, 4 FT



LC3MSA00577-48

Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRB 3-Lug Jack
- Cable Type: TWCH-78-2-LC

Features

- MIL-STD-1553
- -30°C to +80°C
- 78 ohms
- Low Smoke Zero Halogen
- Non-Toxic

Applications

- Military Contractors
- MIL-STD-1553
- Data
- Safer Environments
- Ventilation critical areas
- Hospitals

Description

L-com's LC3MSA00577-48 is a LSZH 1553 TRB 3-Slot plug to TRB 3-Lug jack cable assembly using TWCH-78-2-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 TWCH-78-2-LC series coax and operates to 500 MHz. The LC3MSA00577 cable assembly consists of a 78 Ohm Low Smoke Zero Halogen 3-Slot TRB Solder/Clamp Plug to 3-Lug TRB Solder/Clamp Jack for TWCH-78-2 cable (.242 O.D.) suitable for MIL-STD-1553 Applications. The zero halogen jacket cable reduces the amount of toxic and corrosive gases emitted during combustion. Typically used in poorly ventilated areas, zero halogen is very popular with military contractors and anywhere the protection of people and equipment from toxic and corrosive gases is critical.

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 LC3MSA00577-48 L-com LSZH 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly using TWCH-78-2-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 | | 500 | MHz |
| Capacitance | | 21.2 [69.55] | | 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 | 500 | MHz |
| Insertion Loss (Typ.) | 0.29 | 0.41 | 0.5 | 0.62 | 0.84 | dB |

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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.

Mechanical Specifications

Cable Assembly

| | |
|---------|--------------------|
| Length* | 48 in [121.92 cm] |
| Weight | 0.4 lbs [181.44 g] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | TWCH-78-2-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 | HF POF, Blue |

| | |
|------------------------------|--------------------|
| One Time Minimum Bend Radius | 1.25 in [31.75 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 | -30 to +80 deg C |
|-----------------|------------------|

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