

LSZH 1553 TRB 3-Lug Jack to TRB 3-Lug Jack Cable 78 Ohm TWCH-78-2 Coax with Bend Relief

The 78 ohm TRB 3-Lug jack to 78 ohm TRB 3-Lug jack cable using 78 ohm TWCH-78-2 twinax, part number FM3MSA00593, from Fairview Microwave is in-stock and ships same day. This Fairview TRB 3-Lug to TRB 3-Lug cable assembly has a jack to jack gender configuration with 78 ohm flexible TWCH-78-2 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MSA00593 TRB 3-Lug jack to TRB 3-Lug jack cable assembly operates to 500 MHz.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|------------------------|-----|--------------|-------|--------------|
| Frequency Range | DC | | 500 | MHz |
| Capacitance | | 21.2 [69.55] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 1,000 | Vrms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|------|-------|
| Frequency | 10 | 50 | 100 | 200 | 500 | MHz |
| Insertion Loss (Typ.) | 0.022 | 0.051 | 0.075 | 0.105 | 0.16 | dB/ft |
| | 0.07 | 0.17 | 0.25 | 0.34 | 0.52 | dB/m |

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* | 0 in [0 mm] |
| Weight | 0.108 lbs [48.99 g] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | TWCH-78-2 |
| 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] |
|------------------------------|--------------------|



Configuration:

- TRB 3-Lug Jack
- TRB 3-Lug Jack
- TWCH-78-2

Features:

- Max Frequency 500 MHz
- HF POF Jacket
- MIL-STD-1553
- -30°C to +80°C
- 78 ohms
- ROHS Low Smoke Zero Halogen
- Non-Toxic

Applications:

- General Purpose
- Laboratory Use
- Military Contractors
- MIL-STD-1553
- Data
- Safer Environments
- Ventilation critical areas
- Hospitals

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Connectors

| Description | Connector 1 | Connector 2 |
|-------------------------------|------------------------------|------------------------------|
| Type | TRB 3-Lug Jack Bayonet | TRB 3-Lug Jack Bayonet |
| Option | Bend Relief Spring | Bend Relief Spring |
| Impedance | 78 Ohms | 78 Ohms |
| Contact Material & Plating | Bronze, Gold 30 micro inches | Bronze, Gold 30 micro inches |
| Contact Plating Spec. | ASTM-B-488 | ASTM-B-488 |
| Dielectric Type | Teflon | Teflon |
| Outer Cond Material & Plating | Phosphor Bronze, Gold | Phosphor Bronze, Gold |
| Outer Cond Plating Spec. | 30 micro inches | 30 micro inches |
| Body Material & Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Spec. | ASTM-B-733 | ASTM-B-733 |

Environmental Specifications
Temperature

Operating Range -30 to +80 deg C

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

Plotted and Other Data

Notes:

How to Order

 Part Number Configuration: **FM3MSA00593 - xx uu**

 cm = Centimeters
 <blank> = Inches

Length

 Example: FM3MSA00593-12 = 12 inches long cable
 FM3MSA00593-100cm = 100 cm long cable

LSZH 1553 TRB 3-Lug Jack to TRB 3-Lug Jack Cable 78 Ohm TWCH-78-2 Coax with Bend Relief from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [LSZH 1553 TRB 3-Lug Jack to TRB 3-Lug Jack Cable 78 Ohm TWCH-78-2 Coax with Bend Relief FM3MSA00593](#)

URL: <https://www.fairviewmicrowave.com/lshz-1553-trb-3-lug-jack-to-trb-3-lug-jack-cable-78-ohm-twch-78-2-coax-with-bend-relief-fm3msa00593-p.aspx>

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