

Lead Free 3-Lug TRB Jack to Jack for 78 Ohm M17/176-00002, 12" Cable

The 78 ohm TRB 3-Lug jack to 78 ohm TRB 3-Lug jack 12 inch cable using 78 ohm M17/176-00002 twinax, part number FM3MSA00452-12, 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 M17/176-00002 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MSA00452-12 TRB 3-Lug jack to TRB 3-Lug jack cable assembly operates to 10 GHz.

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 | | 10 | GHz |
| Capacitance | | 24 [78.74] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 750,000 | Vrms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency | 1 | 3 | 5 | 7 | 10 | MHz |
| Insertion Loss (Typ.) | 0.214 | 0.221 | 0.228 | 0.235 | 0.245 | 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.

Mechanical Specifications

Cable Assembly

| | |
|---------|--------------------|
| Length* | 12 in [304.8 mm] |
| Weight | 0.13 lbs [58.97 g] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | M17/176-00002 |
| 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] |
|------------------------------|------------------|



Configuration:

- TRB 3-Lug Jack
- TRB 3-Lug Jack
- M17/176-00002

Features:

- Max Frequency 10 GHz
- PFA Jacket
- MIL-STD-1553
- -55°C to +200°C
- 78 ohms

Applications:

- General Purpose
- Laboratory Use
- Vehicle High Temperature
- Data
- MIL-STD-1553

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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 -55 to +200 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FM3MSA00452 - xx uu**

cm = Centimeters
<blank> = Inches
Length

Example: FM3MSA00452-12 = 12 inches long cable
FM3MSA00452-100cm = 100 cm long cable

Lead Free 3-Lug TRB Jack to Jack for 78 Ohm M17/176-00002, 12" Cable 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: [Lead Free 3-Lug TRB Jack to Jack for 78 Ohm M17/176-00002, 12" Cable FM3MSA00452-12](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-lug-jack-to-trb-3-lug-jack-cable-78-ohm-m17-176-00002-coax-in-12-inch-fm3msa00452-12-p.aspx>

The information contained in 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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

