

Lead Free LSZH Threaded TRB Plug to 3-Lug TRB Bulkhead Insulated Jack for 78 Ohm TWCH-78-2, 48" Cable

The 78 ohm TRT plug to 78 ohm TRB 3-Lug jack bulkhead 48 inch cable using 78 ohm TWCH-78-2 twinax, part number FM3MSA00599-48, from Fairview Microwave is in-stock and ships same day. This Fairview TRT to TRB 3-Lug cable assembly has a plug 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 FM3MSA00599-48 TRT plug to TRB 3-Lug jack cable assembly operates to 500 MHz. Our RF cable assembly with TRB 3-Lug bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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.) | 0.29 | 0.41 | 0.5 | 0.62 | 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.

Mechanical Specifications

Cable Assembly

| | |
|---------|---------------------|
| Length* | 48 in [121.92 cm] |
| Weight | 0.29 lbs [131.54 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:

- TRT Plug
- TRB 3-Lug Jack Bulkhead
- 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

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Connectors

| Description | Connector 1 | Connector 2 |
|-------------------------------|------------------------------|------------------------------|
| Type | TRT Plug Threaded | TRB 3-Lug Jack Bayonet |
| Mount Method | | Bulkhead |
| 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: **FM3MSA00599 - xx uu**

cm = Centimeters
<blank> = Inches
Length

Example: FM3MSA00599-12 = 12 inches long cable
FM3MSA00599-100cm = 100 cm long cable

Lead Free LSZH Threaded TRB Plug to 3-Lug TRB Bulkhead Insulated Jack for 78 Ohm TWCH-78-2, 48" 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 LSZH Threaded TRB Plug to 3-Lug TRB Bulkhead Insulated Jack for 78 Ohm TWCH-78-2, 48" Cable FM3MSA00599-48](#)

URL: <https://www.fairviewmicrowave.com/1553-trt-plug-to-trb-3-lug-jack-bulkhead-cable-78-ohm-twch-78-2-coax-in-48-inch-fm3msa00599-48-p.aspx>

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