

## Lead Free LSZH Bend Relief 3-Slot TRB Plug with Blunt Cut for 78 Ohm TWCH-78-2 Cable

The 78 ohm TRB 3-Slot plug to Blunt cut genderless cable using 78 ohm TWCH-78-2 twinax, part number FM3MSA00581, from Fairview Microwave is in-stock and ships same day. This Fairview TRB 3-Slot to Blunt Cut cable assembly has a plug to genderless 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 FM3MSA00581 TRB 3-Slot plug to Blunt cut genderless 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  | 0.048 lbs [21.77 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-Slot Plug
- Blunt Cut Genderless
- 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                          | TRB 3-Slot Plug Bayonet | Blunt Cut Genderless Other |
| Option                        | Bend Relief Spring      |                            |
| Impedance                     | 78 Ohms                 |                            |
| Contact Material & Plating    | Bronze, Gold            | 30 micro inches            |
| Contact Plating Spec.         | ASTM-B-488              |                            |
| Dielectric Type               | Teflon                  |                            |
| Outer Cond Material & Plating | Phosphor Bronze, Gold   |                            |
| Outer Cond Plating Spec.      | 30 micro inches         |                            |
| Body Material & Plating       | Brass, Nickel           |                            |
| Body Plating Spec.            | 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: **FM3MSA00581 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FM3MSA00581-12 = 12 inches long cable  
FM3MSA00581-100cm = 100 cm long cable

Lead Free LSZH Bend Relief 3-Slot TRB Plug with Blunt Cut for 78 Ohm TWCH-78-2 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 Bend Relief 3-Slot TRB Plug with Blunt Cut for 78 Ohm TWCH-78-2 Cable FM3MSA00581](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-slot-plug-to-blunt-cut-genderless-cable-78-ohm-twch-78-2-coax-with-bend-relief-fm3msa00581-p.aspx>

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