

TRB Plug to TRB Plug Right Angle 1553 Cable Using 78 Ohm M17/176-00002 Coax

The 78 ohm TRB 3-Slot plug to 78 ohm RA TRB 3-Slot plug cable using 78 ohm M17/176-00002 twinax, part number FM3MP2166, from Fairview Microwave is in-stock and ships same day. This Fairview TRB 3-Slot to TRB 3-Slot cable assembly has a plug to plug 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 FM3MP2166 TRB 3-Slot plug to TRB 3-Slot plug cable assembly operates to 10 MHz. The right angle TRB 3-Slot interface on the M17/176-00002 cable allows for easier connections in tight spaces.

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 | MHz |
| 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.) | 0.014 | 0.021 | 0.028 | 0.035 | 0.045 | dB/ft |
| | 0.05 | 0.07 | 0.09 | 0.11 | 0.15 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]
 Weight 0.135 lbs [61.23 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-Slot Plug
- TRB 3-Slot Plug Right Angle
- M17/176-00002

Features:

- Max Frequency 10 MHz
- 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-Slot Plug Bayonet | TRB 3-Slot Plug Bayonet |
| 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: **FM3MP2166 - xx uu**

cm = Centimeters
<blank> = Inches

Length

Example: FM3MP2166-12 = 12 inches long cable
FM3MP2166-100cm = 100 cm long cable

TRB Plug to TRB Plug Right Angle 1553 Cable Using 78 Ohm M17/176-00002 Coax 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: [TRB Plug to TRB Plug Right Angle 1553 Cable Using 78 Ohm M17/176-00002 Coax FM3MP2166](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-slot-plug-to-ra-trb-3-slot-plug-cable-78-ohm-m17-176-00002-coax-fm3mp2166-p.aspx>

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