

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable
78 Ohm FMBC-30-02001 Coax in 48 Inch

The 78 ohm TRB 3-Slot plug to 78 ohm TRB 3-Lug jack 48 inch cable using 78 ohm FMBC-30-02001 twinax, part number FM3MP2177-48, from Fairview Microwave is in-stock and ships same day. This Fairview TRB 3-Slot to TRB 3-Lug cable assembly has a plug to jack gender configuration with 78 ohm flexible FMBC-30-02001 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MP2177-48 TRB 3-Slot plug to TRB 3-Lug jack cable assembly operates to 400 MHz. The FM3MP2177 cable assembly consists of a 3-slot solder/clamp TRB plug to a 3-Lug TRB Solder/Clamp Jack for FMBC-30-02001, that is a standard lab-rated PVC cable for MIL-STD-1553 applications. It features a larger diameter cable (0.242" O.D.)

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		400	MHz
Capacitance		19.7 [64.63]		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	400	MHz
Insertion Loss (Typ.)	0.29	0.4	0.5	0.64	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 0.333 lbs [151.05 g]

Cable

Cable Type FMBC-30-02001
 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 PVC, Blue

One Time Minimum Bend Radius 2.42 in [61.47 mm]


Configuration:

- TRB 3-Slot Plug
- TRB 3-Lug Jack
- FMBC-30-02001

Features:

- Max Frequency 400 MHz
- PVC Jacket
- MIL-STD-1553
- -20°C to +75°C
- 78 ohms
- Lab rated

Applications:

- General Purpose
- Laboratory Use
- MIL-STD-1553
- Data
- Lab applications

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-Slot Plug Bayonet	TRB 3-Lug Jack 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 -20 to +75 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FM3MP2177 - xx uu**

cm = Centimeters
<blank> = Inches

Length

Example: FM3MP2177-12 = 12 inches long cable
FM3MP2177-100cm = 100 cm long cable

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable 78 Ohm FMBC-30-02001 Coax in 48 Inch 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: [1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable 78 Ohm FMBC-30-02001 Coax in 48 Inch FM3MP2177-48](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-slot-plug-to-trb-3-lug-jack-cable-78-ohm-fmbc-30-02001-coax-in-48-inch-fm3mp2177-48-p.aspx>

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