

## 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable 78 Ohm FMBC-30-02003 Coax in 48 Inch with Bend Relief with LF Solder

The 78 ohm TRB 3-Slot plug to 78 ohm TRB 3-Lug jack 48 inch cable using 78 ohm FMBC-30-02003 twinax, part number FM3MSA00477-48, 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-30-02003 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MSA00477-48 TRB 3-Slot plug to TRB 3-Lug jack cable assembly operates to 500 MHz. The FM3MSA00477 it's a Lead Free assembly consisting of a Bend Relief 3-slot solder/clamp TRB plug to Bend Relief 3-lug solder/clamp TRB jack for FMBC-30-02003, that is a standard lab-rated PVC cable for MIL-STD-1553 applications, with an O.D. 0.150". These cable assemblies come with a 1.700" steel spring-style bend relief that helps to minimize cable damage when exceeding the cables minimum bend radius. These assemblies are built to withstand severe shocks and vibrations.

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		20.3 [66.6]		pF/ft [pF/m]
Operating Voltage (AC)			300	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	10	50	100	200	500	MHz
Insertion Loss (Typ.)	0.42	0.68	0.88	1.15	1.7	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	0.4 lbs [181.44 g]

#### Cable

Cable Type	FMBC-30-02003
Impedance	78 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Shield Layer 1	Silver Plated Copper



### Configuration:

- TRB 3-Slot Plug
- TRB 3-Lug Jack
- FMBC-30-02003

### Features:

- Max Frequency 500 MHz
- PVC Jacket
- MIL-STD-1553
- -20°C to +75°C
- 78 ohms
- Lab rated
- Lead Free
- Bend Relief

### Applications:

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

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Jacket Material PVC, Blue  
One Time Minimum Bend Radius 1.5 in [38.1 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	TRB 3-Slot Plug 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 -20 to +75 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration: **FM3MSA00477 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FM3MSA00477-12 = 12 inches long cable  
FM3MSA00477-100cm = 100 cm long cable

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable 78 Ohm FMBC-30-02003 Coax in 48 Inch with Bend Relief with LF Solder 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-30-02003 Coax in 48 Inch with Bend Relief with LF Solder FM3MSA00477-48](https://www.fairviewmicrowave.com/1553-trb-3-slot-plug-to-trb-3-lug-jack-cable-78-ohm-fm3msa00477-48)

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