

Lead Free 78 Ohm Bend Relief 3-Slot TRB Solder/Clamp Plug with Blunt Cut for FMBC-30-02001 48" Cable

The 78 ohm TRB 3-Slot plug to Blunt cut sexless 48 inch cable using 78 ohm FMBC-30-02001 twinax, part number FM3MSA00546-48, from Fairview Microwave is in-stock and ships same day. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MSA00546-48 TRB 3-Slot plug to Blunt cut cable assembly operates to 400 MHz. The FM3MSA00546 it's a Lead Free cable assembly consisting of a Bend Relief 3-slot solder/clamp TRB plug with Blunt Cut for FMBC-30-02001; that offer a lower-cost, lab-rated PVC cabling solution for laboratory implementations for MIL-STD-1553 applications. It features a larger diameter cable (0.242" O.D.). 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 | | 400 | MHz |
| Capacitance | | 19.7 [64.63] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 1,000 | Vrms |

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
- Blunt Cut
- FMBC-30-02001

Features:

- Max Frequency 400 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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Connectors

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

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FM3MSA00546 - xx uu**

cm = Centimeters
<blank> = Inches
Length

Example: FM3MSA00546-12 = 12 inches long cable
FM3MSA00546-100cm = 100 cm long cable

Lead Free 78 Ohm Bend Relief 3-Slot TRB Solder/Clamp Plug with Blunt Cut for FMBC-30-02001 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: [1553 TRB 3-Slot Plug to Blunt Cut Sexless Cable 78 Ohm FMBC-30-02001 Coax in 48 Inch with Bend Relief with LF Solder FM3MSA00546-48](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-3-slot-plug-to-blunt-cut-sexless-cable-78-ohm-fm3msa00546-48-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

