

## 78 Ohm TRB 3-Slot Solder/Clamp Plug to 3-Lug Solder/Clamp Insulated Bulkhead Jack for FMBC-30-02003, 24" Cable

The 78 ohm TRB 3-Slot plug to 78 ohm TRB 3-Lug jack bulkhead insulated 24 inch cable using 78 ohm FMBC-30-02003 twinax, part number FM3MP2310-24, 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 FM3MP2310-24 TRB 3-Slot plug to TRB 3-Lug jack cable assembly operates to 500 MHz. Our RF cable assembly with TRB 3-Lug bulkhead insulated interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The FM3MP2310 cable assembly consists of a 3-slot solder/clamp TRB plug to a 3-Lug TRB Solder/Clamp Insulated Bulkhead Jack for FMBC-30-02003, that is a standard lab-rated PVC cable for MIL-STD-1553 applications.

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.) | 0.306 | 0.438 | 0.536 | 0.674 | 0.95 | 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* | 24 in [609.6 mm]   |
| Weight  | 0.22 lbs [99.79 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 |
| Jacket Material                      | PVC, Blue            |



### Configuration:

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

### Features:

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

### Applications:

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

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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       |
| Mount Method                  |                              | Bulkhead Insulated           |
| 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:

**FM3MP2310 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FM3MP2310-12 = 12 inches long cable  
 FM3MP2310-100cm = 100 cm long cable

78 Ohm TRB 3-Slot Solder/Clamp Plug to 3-Lug Solder/Clamp Insulated Bulkhead Jack for FMBC-30-02003, 24" 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 TRB 3-Lug Jack Bulkhead Insulated Cable 78 Ohm FMBC-30-02003 Coax in 24 Inch FM3MP2310-24](https://www.fairviewmicrowave.com/1553-trb-3-slot-plug-to-trb-3-lug-jack-bulkhead-insulated-cable-78-ohm-fm3mp2310-24-p.aspx)

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