

## 1553 TRB 3-Slot Plug to TRB 3-Slot Plug Cable 78 Ohm FMBC-30-02001 Coax in 36 Inch with Bend Relief with LF Solder

The 78 ohm TRB 3-Slot plug to 78 ohm TRB 3-Slot plug 36 inch cable using 78 ohm FMBC-30-02001 twinax, part number FM3MSA00545-36, 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 FMBC-30-02001 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MSA00545-36 TRB 3-Slot plug to TRB 3-Slot plug cable assembly operates to 400 MHz. The FM3MSA00545 it's a Lead Free cable assembly consisting of a Bend Relief 3-slot solder/clamp TRB Plug to Plug 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         |

### Performance by Frequency

| Description           | F1    | F2   | F3    | F4   | F5   | Units |
|-----------------------|-------|------|-------|------|------|-------|
| Frequency             | 10    | 50   | 100   | 200  | 400  | MHz   |
| Insertion Loss (Typ.) | 0.263 | 0.35 | 0.425 | 0.53 | 0.68 | 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* | 36 in [914.4 mm]     |
| Weight  | 0.388 lbs [175.99 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 |



### Configuration:

- TRB 3-Slot Plug
- TRB 3-Slot Plug
- 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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Jacket Material PVC, Blue

One Time Minimum Bend Radius 2.42 in [61.47 mm]

### Connectors

| Description                   | Connector 1                  | Connector 2                  |
|-------------------------------|------------------------------|------------------------------|
| Type                          | TRB 3-Slot Plug Bayonet      | TRB 3-Slot Plug 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:

**FM3MSA00545 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FM3MSA00545-12 = 12 inches long cable  
 FM3MSA00545-100cm = 100 cm long cable

1553 TRB 3-Slot Plug to TRB 3-Slot Plug Cable 78 Ohm FMBC-30-02001 Coax in 36 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-Slot Plug Cable 78 Ohm FMBC-30-02001 Coax in 36 Inch with Bend Relief with LF Solder FM3MSA00545-36](https://www.fairviewmicrowave.com/1553-trb-3-slot-plug-to-trb-3-slot-plug-cable-78-ohm-fmbc-30-02001-coax-in-36-inch-with-bend-relief-with-lf-solder-fm3msa00545-36)

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