

## TRB 2-Slot Plug to TRB 3-Slot Plug 1553 Cable 12" Using 124 Ohm TWC-124-2 Twinax

The 78 ohm TRB 2-Slot plug to 78 ohm TRB 3-Slot plug 12 cable using 124 ohm TWC-124-2 twinax, part number FM3MSA00681-12, from Fairview Microwave is in-stock and ships same day. This Fairview TRB 2-Slot to TRB 3-Slot cable assembly has a plug to plug gender configuration with 124 ohm flexible TWC-124-2 twinax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM3MSA00681-12 TRB 2-Slot plug to TRB 3-Slot plug cable assembly operates to 500 MHz.

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            |     | 12.3 [40.35] |       | 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   | 500   | MHz   |
| Insertion Loss (Typ.) | 0.217 | 0.236 | 0.251 | 0.272 | 0.314 | 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* | 12 in [304.8 mm]   |
| Weight  | 0.25 lbs [113.4 g] |

#### Cable

|                                      |                      |
|--------------------------------------|----------------------|
| Cable Type                           | TWC-124-2            |
| Impedance                            | 124 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 | 1.25 in [31.75 mm] |
|------------------------------|--------------------|



### Configuration:

- TRB 2-Slot Plug
- TRB 3-Slot Plug
- TWC-124-2

### Features:

- Max Frequency 500 MHz
- PVC Jacket
- 124 ohms
- Twinaxial
- MIL-STD-1553B
- -40°C to +80°C
- Lead Free Solder
- Standard and Custom Lengths Available

### Applications:

- General Purpose
- Laboratory Use
- MIL-STD-1553B Applications
- Data Transmission

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## Connectors

| Description                   | Connector 1                  | Connector 2                  |
|-------------------------------|------------------------------|------------------------------|
| Type                          | TRB 2-Slot Plug Bayonet      | TRB 3-Slot Plug Bayonet      |
| Specification                 | MIL-STD-1553                 | MIL-STD-1553                 |
| 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 -40 to +80 deg C

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration: **FM3MSA00681 - xx uu**

cm = Centimeters

<blank> = Inches

Length

Example: FM3MSA00681-12 = 12 inches long cable  
 FM3MSA00681-100cm = 100 cm long cable

TRB 2-Slot Plug to TRB 3-Slot Plug 1553 Cable 12" Using 124 Ohm TWC-124-2 Twinax 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: [TRB 2-Slot Plug to TRB 3-Slot Plug 1553 Cable 12" Using 124 Ohm TWC-124-2 Twinax FM3MSA00681-12](#)

URL: <https://www.fairviewmicrowave.com/1553-trb-2-slot-plug-to-trb-3-slot-plug-cable-124-ohm-twc-124-2-coax-in-12-fm3msa00681-12-p.aspx>

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