



TRB 3-Slot Plug to TRB 3-Lug Jack 1553 Cable  
Using 124 Ohm TWC-124-2 Coax

## RF Cable Assemblies Technical Data Sheet

**PE3MSA00652**

### Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRB 3-Lug Jack
- Cable Type: TWC-124-2
- Coax Flex Type: Flexible

### 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

### Description

Pasternack's PE3MSA00652 78 ohm TRB 3-Slot plug to 78 ohm TRB 3-Lug jack cable using 124 ohm TWC-124-2 twinax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack TRB 3-Slot to TRB 3-Lug cable assembly has a plug to jack gender configuration with 124 ohm flexible TWC-124-2 twinax. The PE3MSA00652 TRB 3-Slot plug to TRB 3-Lug jack 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 available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TRB 3-Slot Plug to TRB 3-Lug Jack 1553 Cable Using 124 Ohm TWC-124-2 Coax PE3MSA00652](#)



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### Electrical Specifications

| Description            | Minimum | Typical      | Maximum | Units        |
|------------------------|---------|--------------|---------|--------------|
| Frequency Range        | DC      |              | 500     | MHz          |
| Capacitance            |         | 12.3 [40.35] |         | pF/ft [pF/m] |
| Operating Voltage (AC) |         |              | 1,000   | Vrms         |

### Specifications by Frequency

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 10    | 50    | 100   | 200   | 500   | MHz   |
| Insertion Loss (Typ.) | 0.017 | 0.036 | 0.051 | 0.072 | 0.114 | dB/ft |
|                       | 0.06  | 0.12  | 0.17  | 0.24  | 0.37  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.1928 lbs [87.45 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]

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### Connectors

| Description                           | Connector 1                  | Connector 2                  |
|---------------------------------------|------------------------------|------------------------------|
| Type                                  | TRB 3-Slot Plug Bayonet      | TRB 3-Lug Jack Bayonet       |
| Specification                         | MIL-STD-1553                 | MIL-STD-1553                 |
| Impedance                             | 78 Ohms                      | 78 Ohms                      |
| Contact Material and Plating          | Bronze, Gold 30 micro inches | Bronze, Gold 30 micro inches |
| Contact Plating Specification         | ASTM-B-488                   | ASTM-B-488                   |
| Dielectric Type                       | Teflon                       | Teflon                       |
| Outer Conductor Material and Plating  | Phosphor Bronze, Gold        | Phosphor Bronze, Gold        |
| Outer Conductor Plating Specification | 30 micro inches              | 30 micro inches              |
| Body Material and Plating             | Brass, Nickel                | Brass, Nickel                |
| Body Plating Specification            | ASTM-B-733                   | ASTM-B-733                   |
| Seal Gasket Material                  | Rubber                       |                              |

### Environmental Specifications

#### Temperature

Operating Range

-40 to +80 deg C

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

### Plotted and Other Data

Notes:

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**PE3MSA00652**

### How to Order

Part Number Configuration:

**PE3MSA00652**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3MSA00652-12 = 12 inches long cable  
PE3MSA00652-100cm = 100 cm long cable

TRB 3-Slot Plug to TRB 3-Lug Jack 1553 Cable Using 124 Ohm TWC-124-2 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TRB 3-Slot Plug to TRB 3-Lug Jack 1553 Cable Using 124 Ohm TWC-124-2 Coax PE3MSA00652](https://www.pasternack.com/trb-3-slot-plug-to-trb-3-lug-jack-1553-cable-using-twc-124-2-pe3msa00652-p.aspx)

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