



## Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Jack for 78 Ohm M17/176-00002 Cable

### RF Cable Assemblies Technical Data Sheet

**PE3MP2398**

#### Configuration

- Connector 1: TRB Plug
- Connector 2: TRB Jack
- Cable Type: M17/176-00002
- Coax Flex Type: Flexible

#### Features

- Max Frequency 10 MHz
- PFA Jacket
- MIL-STD-1553
- -55°C to +200°C
- 78 ohms

#### Applications

- General Purpose
- Laboratory Use
- Vehicle High Temperature
- Data
- MIL-STD-1553

#### Description

Pasternack's PE3MP2398 78 ohm TRB plug to 78 ohm TRB jack cable using 78 ohm M17/176-00002 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 to TRB cable assembly has a plug to jack gender configuration with 78 ohm flexible M17/176-00002 twinax. The PE3MP2398 TRB plug to TRB jack cable assembly operates to 10 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: [Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Jack for 78 Ohm M17/176-00002 Cable PE3MP2398](#)



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### Electrical Specifications

| Description            | Minimum | Typical    | Maximum | Units        |
|------------------------|---------|------------|---------|--------------|
| Frequency Range        | DC      |            | 10      | MHz          |
| Capacitance            |         | 24 [78.74] |         | pF/ft [pF/m] |
| Operating Voltage (AC) |         |            | 750,000 | Vrms         |

### Specifications by Frequency

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 1     | 3     | 5     | 7     | 10    | MHz   |
| Insertion Loss (Typ.) | 0.014 | 0.021 | 0.028 | 0.035 | 0.045 | dB/ft |
|                       | 0.05  | 0.07  | 0.09  | 0.11  | 0.15  | dB/m  |

#### 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

Weight 0.13 lbs [58.97 g]

#### Cable

Cable Type M17/176-00002  
Impedance 78 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PTFE  
Shield Layer 1 Silver Plated Copper  
Jacket Material PFA, Blue

One Time Minimum Bend Radius 1.5 in [38.1 mm]

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### Connectors

| Description                           | Connector 1                  | Connector 2                  |
|---------------------------------------|------------------------------|------------------------------|
| Type                                  | TRB Plug                     | TRB Jack                     |
| 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                   |

### Environmental Specifications

#### Temperature

Operating Range -55 to +200 deg C

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

### Plotted and Other Data

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3MP2398**

**How to Order**

Part Number Configuration:

**PE3MP2398**

- **xx**

**uu**

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

Example: PE3MP2398-12 = 12 inches long cable  
PE3MP2398-100cm = 100 cm long cable

Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Jack for 78 Ohm M17/176-00002 Cable 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.

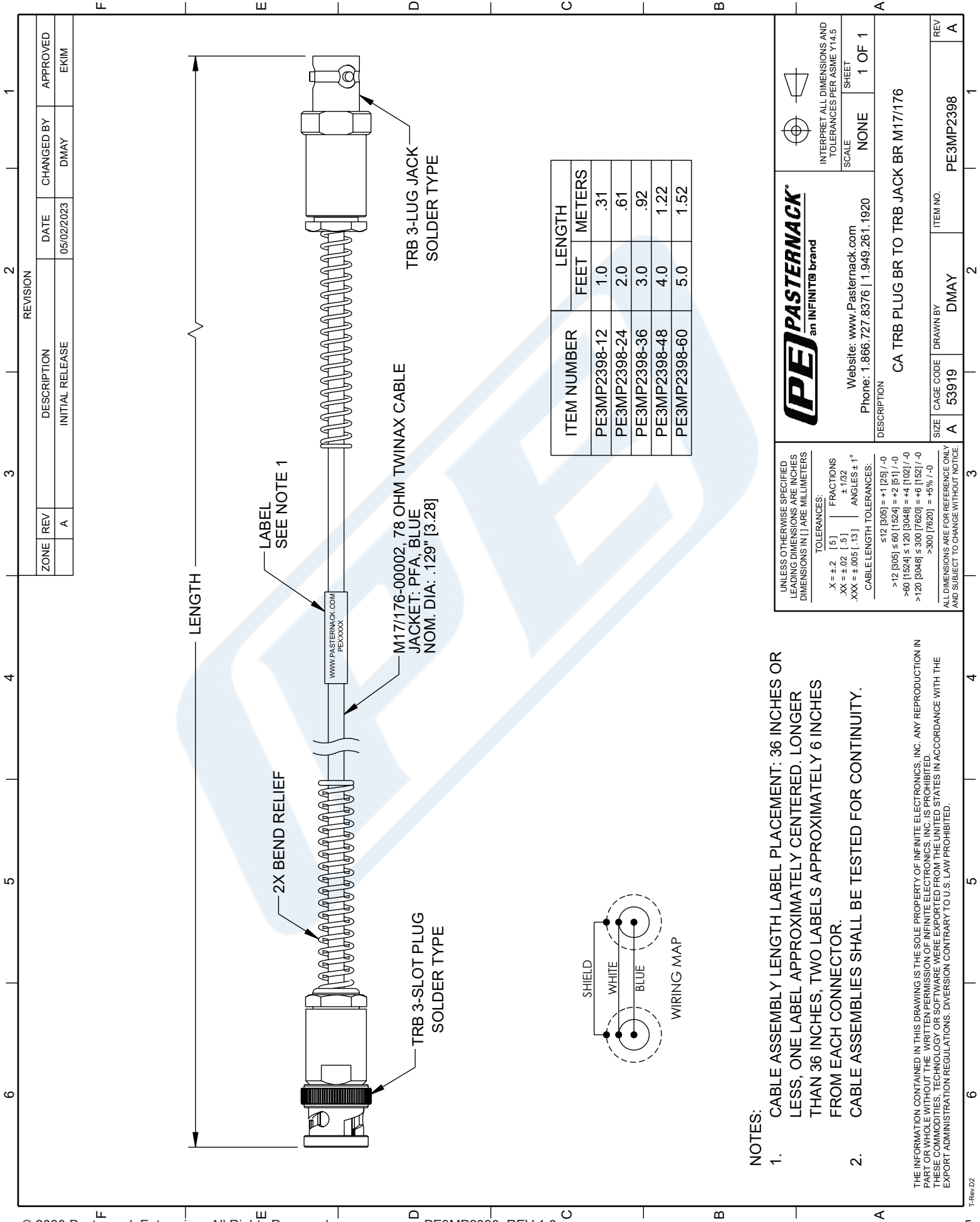
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Jack for 78 Ohm M17/176-00002 Cable PE3MP2398](https://www.pasternack.com/trb-plug-to-trb-jack-1553-cable-using-m17-176-00002-pe3mp2398-p.aspx)

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PE3MP2398 CAD Drawing

Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB  
Jack for 78 Ohm M17/176-00002 Cable



- NOTES:
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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