



## Halogen Free 3-Lug TRB Non-Insulated Bulkhead Jack with Blunt Cut for 78 Ohm TWCH-78-2, 60" Cable

### RF Cable Assemblies Technical Data Sheet

**PE3MSA00401-60**

#### Configuration

- Connector 1: TRB JACK Bulkhead
- Connector 2: Blunt Cut Genderless
- Cable Type: TWCH-78-2
- Coax Flex Type: Flexible

#### Features

- Max Frequency 500 MHz
- HF POF Jacket
- MIL-STD-1553
- -30°C to +80°C
- 78 ohms
- Halogen Free
- Non-Toxic

#### Applications

- General Purpose
- Laboratory Use
- Military Contractors
- MIL-STD-1553
- Data
- Safer Environments
- Ventilation critical areas

#### Description

Pasternack's PE3MSA00401-60 78 ohm TRB jack bulkhead to Blunt cut genderless 60 inch cable using 78 ohm TWCH-78-2 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 to Blunt Cut cable assembly has a jack to genderless gender configuration with 78 ohm flexible TWCH-78-2 twinax. The PE3MSA00401-60 TRB jack to Blunt cut genderless cable assembly operates to 500 MHz. Our RF cable assembly with TRB bulkhead 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.

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: [Halogen Free 3-Lug TRB Non-Insulated Bulkhead Jack with Blunt Cut for 78 Ohm TWCH-78-2, 60" Cable PE3MSA00401-60](#)



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### Electrical Specifications

| Description            | Minimum | Typical      | Maximum | Units        |
|------------------------|---------|--------------|---------|--------------|
| Frequency Range        | DC      |              | 500     | MHz          |
| Capacitance            |         | 21.2 [69.55] |         | 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.)

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* | 60 in [152.4 cm]     |
| Weight  | 0.247 lbs [112.04 g] |

#### Cable

|                                      |                      |
|--------------------------------------|----------------------|
| Cable Type                           | TWCH-78-2            |
| 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                      | HF POF, Blue         |

|                              |                    |
|------------------------------|--------------------|
| One Time Minimum Bend Radius | 1.25 in [31.75 mm] |
|------------------------------|--------------------|

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### Connectors

| Description                           | Connector 1                  | Connector 2          |
|---------------------------------------|------------------------------|----------------------|
| Type                                  | TRB JACK Bulkhead            | Blunt Cut Genderless |
| Impedance                             | 78 Ohms                      |                      |
| Contact Material and Plating          | Bronze, Gold 30 micro inches |                      |
| Contact Plating Specification         | ASTM-B-488                   |                      |
| Dielectric Type                       | Teflon                       |                      |
| Outer Conductor Material and Plating  | Phosphor Bronze, Gold        |                      |
| Outer Conductor Plating Specification | 30 micro inches              |                      |
| Body Material and Plating             | Brass, Nickel                |                      |
| Body Plating Specification            | ASTM-B-733                   |                      |

### Environmental Specifications

#### Temperature

Operating Range

-30 to +80 deg C

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

### Plotted and Other Data

Notes:

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## Halogen Free 3-Lug TRB Non-Insulated Bulkhead Jack with Blunt Cut for 78 Ohm TWCH-78-2, 60" Cable

### RF Cable Assemblies Technical Data Sheet

**PE3MSA00401-60**

#### How to Order

Part Number Configuration:

**PE3MSA00401**

- **xx**

**uu**

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

Example: PE3MSA00401-12 = 12 inches long cable  
PE3MSA00401-100cm = 100 cm long cable

Halogen Free 3-Lug TRB Non-Insulated Bulkhead Jack with Blunt Cut for 78 Ohm TWCH-78-2, 60" 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.

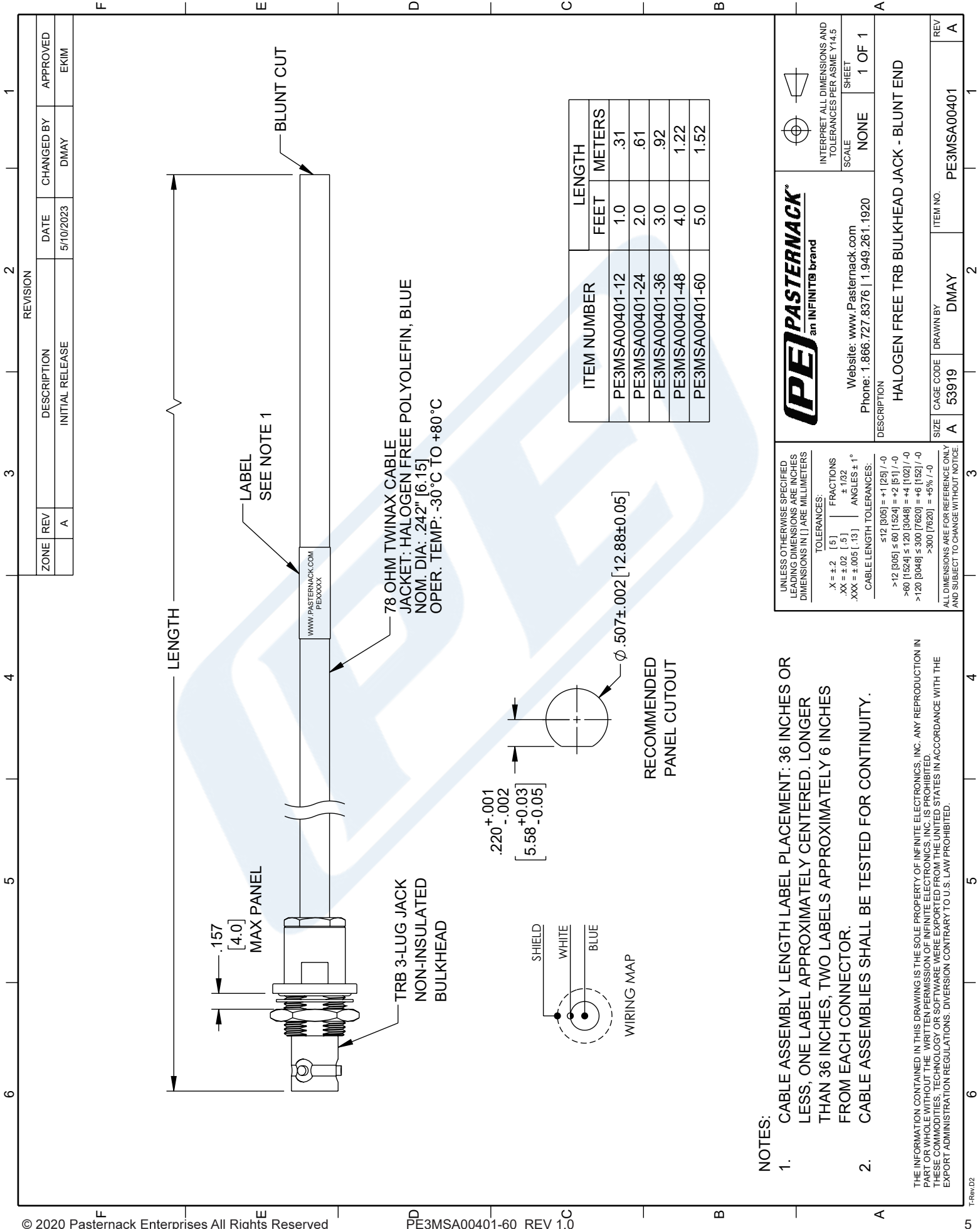
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Halogen Free 3-Lug TRB Non-Insulated Bulkhead Jack with Blunt Cut for 78 Ohm TWCH-78-2, 60" Cable PE3MSA00401-60](#)

URL: <https://www.pasternack.com/halogen-free-trb-jack-bulkhead-to-blunt-cut-genderless-1553-cable-60-inch-length-using-twch-78-2-pe3msa00401-60-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3MSA00401-60 CAD Drawing

Halogen Free 3-Lug TRB Non-Insulated Bulkhead Jack with  
Blunt Cut for 78 Ohm TWCH-78-2, 60" Cable



Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION  
HALOGEN FREE TRB BULKHEAD JACK - BLUNT END

SIZE A  
CAGE CODE 53919  
DRAWN BY DMAY  
ITEM NO. PE3MSA00401

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5  
SCALE NONE  
SHEET 1 OF 1



REV A