



## Halogen Free 78 Ohm TRB 3-Slot Solder/Clamp Plug with Blunt Cut for TWCH-78-2, 24" Cable

### RF Cable Assemblies Technical Data Sheet

**PE3MSA00225-24**

#### Configuration

- Connector 1: TRB Plug
- Connector 2: Blunt Cut
- Cable Type: TWCH-78-2

#### Features

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

#### Applications

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

#### Description

Pasternack's PE3MSA00225-24 78 ohm TRB plug to Blunt cut 24 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. The PE3MSA00225-24 TRB plug to Blunt cut cable assembly operates to 500 MHz. The PE3MSA00225 cable assembly consists of a 78 Ohm Halogen Free 3-Slot TRB Solder/Clamp Plug with Blunt Cut for TWCH-78-2 cable (.242 O.D.) suitable for MIL-STD-1553 Applications. The zero halogen jacket cable reduces the amount of toxic and corrosive gases emitted during combustion. Typically used in poorly ventilated areas, zero halogen is very popular with military contractors and anywhere the protection of people and equipment from toxic and corrosive gases is critical.

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 78 Ohm TRB 3-Slot Solder/Clamp Plug with Blunt Cut for TWCH-78-2 Twinaxial MIL-STD-1553, 24" Cable \(.242" O.D.\) -30C +80C PE3MSA00225-24](#)



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**PE3MSA00225-24**

### 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         |

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* | 24 in [609.6 mm]   |
| Weight  | 0.22 lbs [99.79 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]   |

### Connectors

| Description                           | Connector 1                  | Connector 2 |
|---------------------------------------|------------------------------|-------------|
| Type                                  | TRB Plug                     | Blunt Cut   |
| 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                   |             |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Halogen Free 78 Ohm TRB 3-Slot Solder/Clamp Plug with Blunt Cut for TWCH-78-2 Twinaxial MIL-STD-1553, 24" Cable \(.242" O.D.\) -30C +80C PE3MSA00225-24](#)



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**RF Cable Assemblies Technical Data Sheet**

**PE3MSA00225-24**

**Environmental Specifications**

**Temperature**

Operating Range

-30 to +80 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**PE3MSA00225**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE3MSA00225-12 = 12 inches long cable  
PE3MSA00225-100cm = 100 cm long cable

Halogen Free 78 Ohm TRB 3-Slot Solder/Clamp Plug with Blunt Cut for TWCH-78-2, 24" 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.

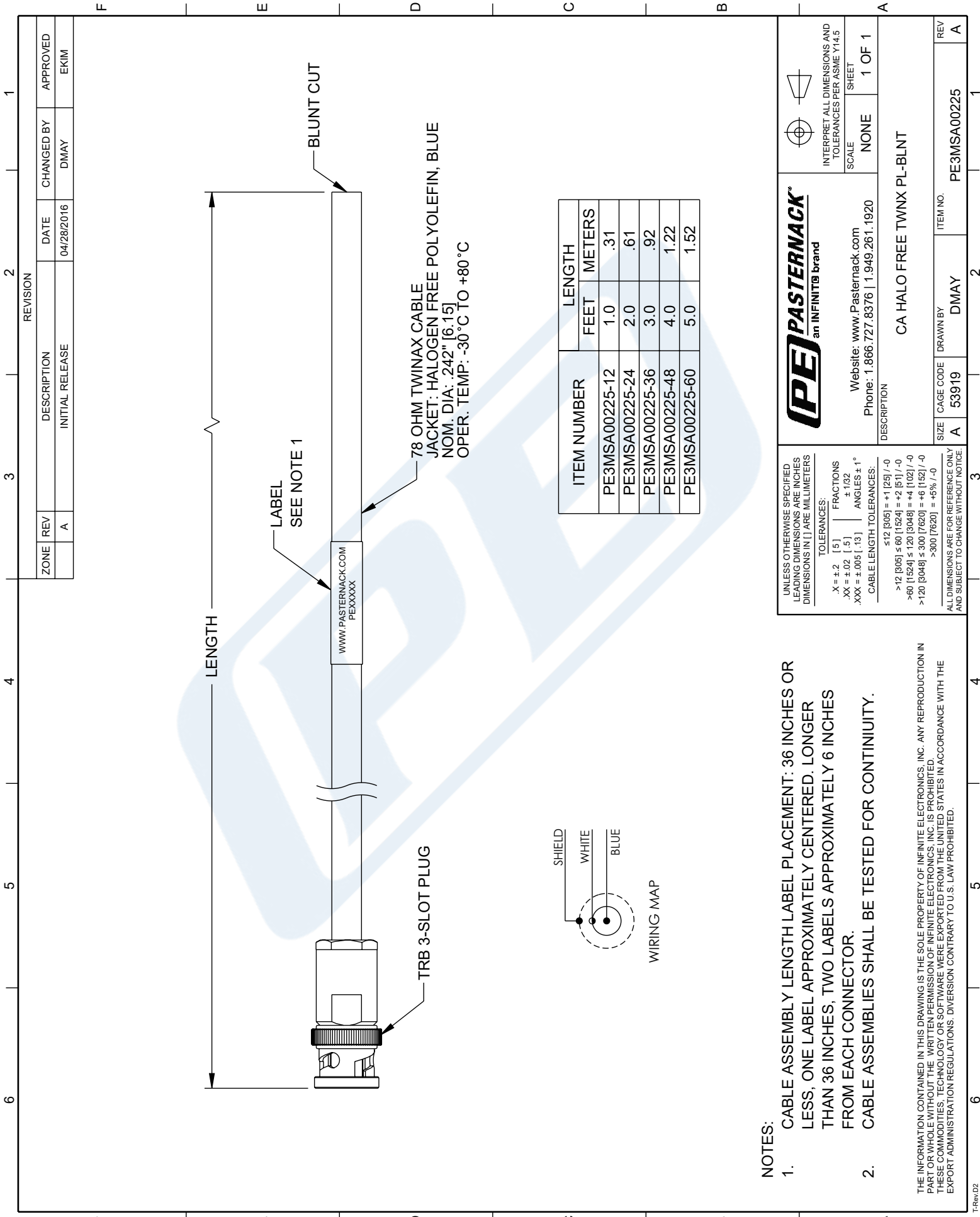
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URL: <https://www.pasternack.com/trb-plug-to-blunt-cut-1553-cable-24-inch-length-using-twch-78-2-pe3msa00225-24-p.aspx>

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.

# PE3MSA00225-24 CAD Drawing

Halogen Free 78 Ohm TRB 3-Slot Solder/Clamp Plug  
with Blunt Cut for TWCH-78-2, 24" Cable



| ZONE | REV | DESCRIPTION     | DATE       | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
|      | A   | INITIAL RELEASE | 04/28/2016 | DMAY       | EKIM     |

78 OHM TWINAX CABLE  
JACKET: HALOGEN FREE POLYOLEFIN, BLUE  
NOM. DIA: .242" [6.15]  
OPER. TEMP: -30 °C TO +80 °C

| ITEM NUMBER    | LENGTH |        |
|----------------|--------|--------|
|                | FEET   | METERS |
| PE3MSA00225-12 | 1.0    | .31    |
| PE3MSA00225-24 | 2.0    | .61    |
| PE3MSA00225-36 | 3.0    | .92    |
| PE3MSA00225-48 | 4.0    | 1.22   |
| PE3MSA00225-60 | 5.0    | 1.52   |

**PE PASTERNAK**  
an INFINITO brand

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

DESCRIPTION: CA HALO FREE TWINX PL-BLNT

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ±.2 [ .5 ] FRACTIONS ±.102  
 .XX = ±.02 [ .5 ] ±.102  
 .XXX = ±.005 [ .13 ] ANGLES ± 1°  
 CABLE LENGTH TOLERANCES:  
 ≤12 [305] = +1 [25] / -0  
 >12 [305] ≤ 60 [1524] = +2 [51] / -0  
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0  
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

SIZE: A CAGE CODE: 53919 DRAWN BY: DMAY ITEM NO.: PE3MSA00225

- 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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