



## Lead Free Bend Relief 3-Lug TRB Jack with Blunt Cut for PE-30-02001, 36 Inch Cable

### RF Cable Assemblies Technical Data Sheet

**PE3MSA00559-36**

#### Configuration

- Connector 1: TRB Jack
- Connector 2: Blunt Cut Genderless
- Cable Type: 30-02001
- Coax Flex Type: Flexible

#### Features

- Max Frequency 400 MHz
- PVC Jacket
- MIL-STD-1553
- -20°C to +75°C
- 78 ohms

#### Applications

- General Purpose
- Laboratory Use
- MIL-STD-1553
- Data

#### Description

Pasternack's PE3MSA00559-36 78 ohm TRB jack to Blunt cut genderless 36 inch cable using 78 ohm PE-30-02001 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 30-02001 twinax. The PE3MSA00559-36 TRB jack to Blunt cut genderless cable assembly operates to 400 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.

#### Electrical Specifications

| Description            | Minimum | Typical      | Maximum | Units        |
|------------------------|---------|--------------|---------|--------------|
| Frequency Range        | DC      |              | 400     | MHz          |
| Capacitance            |         | 19.7 [64.63] |         | 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 | 400 | MHz   |

Insertion Loss (Typ.)

#### Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Lead Free Bend Relief 3-Lug TRB Jack with Blunt Cut for PE-30-02001, 36 Inch Cable PE3MSA00559-36](#)



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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* | 36 in [914.4 mm]    |
| Weight  | 0.186 lbs [84.37 g] |

**Cable**

|                                      |                      |
|--------------------------------------|----------------------|
| Cable Type                           | 30-02001             |
| 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                      | PVC, Blue            |

|                              |                    |
|------------------------------|--------------------|
| One Time Minimum Bend Radius | 2.42 in [61.47 mm] |
|------------------------------|--------------------|

**Connectors**

| Description                           | Connector 1                  | Connector 2          |
|---------------------------------------|------------------------------|----------------------|
| Type                                  | TRB Jack                     | 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 | -20 to +75 deg C |
|-----------------|------------------|

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

**Plotted and Other Data**

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Lead Free Bend Relief 3-Lug TRB Jack with Blunt Cut for PE-30-02001, 36 Inch Cable PE3MSA00559-36](#)



## Lead Free Bend Relief 3-Lug TRB Jack with Blunt Cut for PE-30-02001, 36 Inch Cable

### RF Cable Assemblies Technical Data Sheet

**PE3MSA00559-36**

#### How to Order

Part Number Configuration:

**PE3MSA00559**

- **xx**

**uu**

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

Example: PE3MSA00559-12 = 12 inches long cable  
PE3MSA00559-100cm = 100 cm long cable

Lead Free Bend Relief 3-Lug TRB Jack with Blunt Cut for PE-30-02001, 36 Inch 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: [Lead Free Bend Relief 3-Lug TRB Jack with Blunt Cut for PE-30-02001, 36 Inch Cable PE3MSA00559-36](#)

URL: <https://www.pasternack.com/lead-free-trb-jack-to-blunt-cut-genderless-1553-cable-36-inch-length-using-pe-30-02001-pe3msa00559-36-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.

6 5 4 3 2 1

# LEAD FREE SOLDER

ZONE

REV

DESCRIPTION

DATE

CHANGED BY

APPROVED

A

INITIAL RELEASE

05/10/2023

DMAY

EKIM

LENGTH

TRB 3-LUG JACK

78 OHM TWINAX CABLE  
JACKET: PVC, BLUE  
NOM. DIA: .242" [6.15]

WWW.PASTERNAK.COM  
PEXXXX

LABEL  
SEE NOTE 1

BLUNT CUT

SHIELD

WHITE

BLUE

WIRING MAP

| ITEM NUMBER    | LENGTH |        |
|----------------|--------|--------|
|                | FEET   | METERS |
| PE3MSA00559-12 | 1.0    | .31    |
| PE3MSA00559-24 | 2.0    | .61    |
| PE3MSA00559-36 | 3.0    | .92    |
| PE3MSA00559-48 | 4.0    | 1.22   |
| PE3MSA00559-60 | 5.0    | 1.52   |

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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**PE PASTERNAK**  
an INFINITI<sup>®</sup> brand

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

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

TOLERANCES:

| .X = ±.2     | [.5]  | FRACTIONS   |
|--------------|-------|-------------|
| .XX = ±.02   | [.13] | ± 1/32      |
| .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] | ± 45% / -0                   |

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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE

NONE

SHEET

1 OF 1

DESCRIPTION

ROHS .242" OD TRB CABLE JACK BR - BLUNT CUT

| SIZE | CAGE CODE | DRAWN BY | ITEM NO.    | REV |
|------|-----------|----------|-------------|-----|
| A    | 53919     | DMAY     | PE3MSA00559 | A   |

1-Rev.02

|      |     |                 |            |            |          |
|------|-----|-----------------|------------|------------|----------|
| ZONE | REV | DESCRIPTION     | DATE       | CHANGED BY | APPROVED |
|      | A   | INITIAL RELEASE | 05/10/2023 | DMAY       | EKIM     |

| ITEM NUMBER    | LENGTH |        |
|----------------|--------|--------|
|                | FEET   | METERS |
| PE3MSA00559-12 | 1.0    | .31    |
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|                                                                                                                                                                                                                                                                              |           |                                                                                                                                                                         |          |                                                                   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------|--|
| <p>UNLESS OTHERWISE SPECIFIED<br/>LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</p>                                                                                                                                                                    |           |   |          | <p>INTERPRET ALL DIMENSIONS AND<br/>TOLERANCES PER ASME Y14.5</p> |  |
| <p>TOLERANCES:</p> <p>X = +.2 [5]      FRACTIONS<br/>         .XX = ±.02 [±.5]      ± 1/32<br/>         XXX = ±.005 [±.13]      ANGLES ± °</p>                                                                                                                               |           | <p>SCALE      SHEET</p> <p>NONE      1 OF 1</p>                                                                                                                         |          |                                                                   |  |
| <p>CABLE LENGTH TOLERANCES:</p> <p>512 [305] = +1 [25] / -0<br/>         &gt;12 [305] ≤ 60 [1524] = +2 [51] / -0<br/>         &gt;60 [1524] ≤ 120 [3048] = +4 [102] / -0<br/>         &gt;120 [3048] ≤ 300 [7620] = +6 [152] / -0<br/>         &gt;300 [7620] = +4% / -0</p> |           | <p>DESCRIPTION</p> <p>ROHS .242" OD TRB CABLE JACK BR - BLUNT CUT</p>                                                                                                   |          |                                                                   |  |
| SIZE                                                                                                                                                                                                                                                                         | CAGE CODE | DRAWN BY                                                                                                                                                                | ITEM NO. | REV                                                               |  |
| A                                                                                                                                                                                                                                                                            | 53919     | DMAY                                                                                                                                                                    |          | PE3MSA00559 A                                                     |  |
| <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY<br/>AND SUBJECT TO CHANGE WITHOUT NOTICE.</p>                                                                                                                                                                                       |           |                                                                                                                                                                         |          |                                                                   |  |

NOTES:

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