



Lead Free 78 Ohm 3-Slot TRB Solder/Clamp Plug to
TRB Threaded Solder/Clamp Plug for PE-30-02001, 60" Cable

RF Cable Assemblies Technical Data Sheet

PE3MSA00562-60

Configuration

- Connector 1: TRB Plug
- Connector 2: TRB Plug
- Cable Type: 30-02001

Features

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

Applications

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

Description

Pasternack's PE3MSA00562-60 78 ohm TRB plug to 78 ohm TRB plug 60 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 TRB cable assembly has a plug to plug gender configuration with 78 ohm flexible 30-02001 twinax. The PE3MSA00562-60 TRB plug to TRB plug cable assembly operates to 400 MHz. The PE3MSA00562 it's a Lead Free cable assembly consisting of a TRB 3-slot solder/clamp plug to TRB Threaded Solder/Clamp Plug for PE-30-02001, that is a standard lab-rated PVC cable for MIL-STD-1553 applications. It features a larger diameter cable (0.242" O.D.).

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: [Lead Free 78 Ohm 3-Slot TRB Solder/Clamp Plug to TRB Threaded Solder/Clamp Plug for PE-30-02001 Twinax \(.242 O.D.\) 60" Cable PE3MSA00562-60](#)



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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.) | 0.305 | 0.45 | 0.575 | 0.75 | 1 | dB |

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 | 0.483 lbs [219.09 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] |
|------------------------------|--------------------|

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Connectors

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

-20 to +75 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3MSA00562

- **xx**

uu

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

Example: PE3MSA00562-12 = 12 inches long cable
PE3MSA00562-100cm = 100 cm long cable

Lead Free 78 Ohm 3-Slot TRB Solder/Clamp Plug to TRB Threaded Solder/Clamp Plug for PE-30-02001, 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.

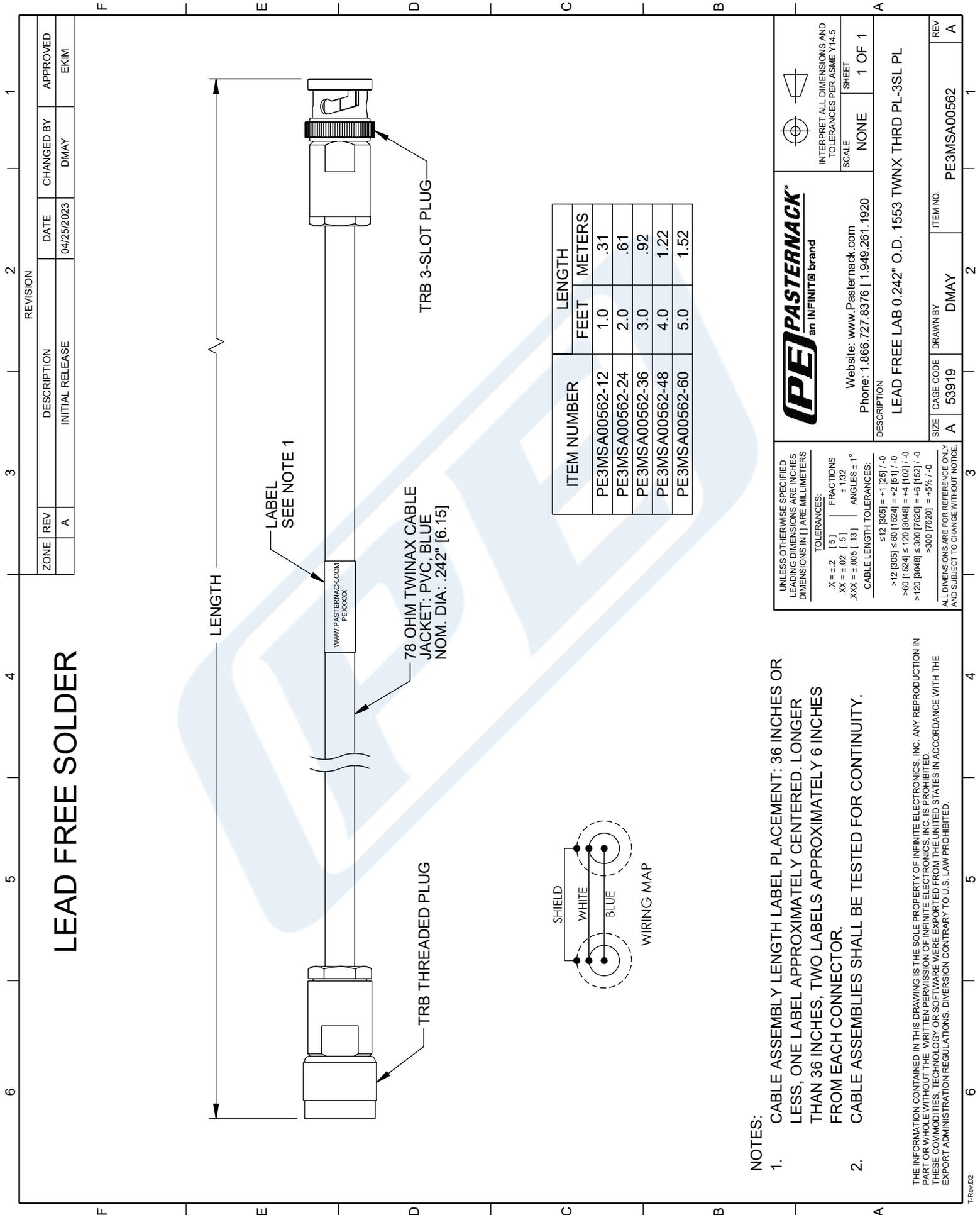
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Lead Free 78 Ohm 3-Slot TRB Solder/Clamp Plug to TRB Threaded Solder/Clamp Plug for PE-30-02001 Twinax \(.242 O.D.\) 60" Cable PE3MSA00562-60](#)

URL: <https://www.pasternack.com/trb-plug-to-trb-plug-1553-cable-60-inch-length-using-pe-30-02001-lf-solder-pe3msa00562-60-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.

PE3MSA00562-60 CAD Drawing

Lead Free 78 Ohm 3-Slot TRB Solder/Clamp Plug to TRB Threaded Solder/Clamp Plug for PE-30-02001, 60" Cable

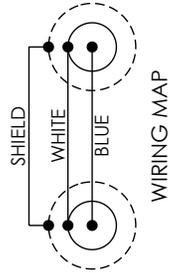


LABEL
SEE NOTE 1

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

TRB THREADED PLUG

TRB 3-SLOT PLUG



| ITEM NUMBER | LENGTH | |
|----------------|--------|--------|
| | FEET | METERS |
| PE3MSA00562-12 | 1.0 | .31 |
| PE3MSA00562-24 | 2.0 | .61 |
| PE3MSA00562-36 | 3.0 | .92 |
| PE3MSA00562-48 | 4.0 | 1.22 |
| PE3MSA00562-60 | 5.0 | 1.52 |

LEAD FREE SOLDER

NOTES:

1. 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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| | A | INITIAL RELEASE | 04/25/2023 | DMAY | EKIM |

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Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
LEAD FREE LAB 0.242" O.D. 1553 TWINX THRD PL-3SL PL

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

SIZE: A CAGE CODE: DMAY ITEM NO.: PE3MSA00562

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

TOLERANCES:
 .X = ±.2 [.5] FRACTIONS
 .XX = ±.02 [.5] ±.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] = +5% / -0

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