



TRB 3-Slot Plug to TRB Bulkhead Non-Insulated Jack
1553 Cable Using 78 Ohm PE-30-02003 Coax

RF Cable Assemblies Technical Data Sheet

PE3MP2224

Configuration

- Connector 1: TRB PLUG
- Connector 2: TRB JACK Bulkhead
- Cable Type: PE-30-02003
- Coax Flex Type: Flexible

Features

- Max Frequency 500 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 PE3MP2224 78 ohm TRB plug to 78 ohm TRB jack bulkhead cable using 78 ohm PE-30-02003 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 PE-30-02003 twinax. The PE3MP2224 TRB plug to TRB jack 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: [TRB 3-Slot Plug to TRB Bulkhead Non-Insulated Jack 1553 Cable Using 78 Ohm PE-30-02003 Coax PE3MP2224](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		500	MHz
Capacitance		20.3 [66.6]		pF/ft [pF/m]
Operating Voltage (AC)			300	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	10	50	100	200	500	MHz
Insertion Loss (Typ.)	0.053	0.119	0.168	0.237	0.375	dB/ft
	0.17	0.39	0.55	0.78	1.23	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 0.099 lbs [44.91 g]

Cable

Cable Type PE-30-02003
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 1.5 in [38.1 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TRB PLUG	TRB JACK Bulkhead
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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PE3MP2224

How to Order

Part Number Configuration:

PE3MP2224

- **xx**

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

Example: PE3MP2224-12 = 12 inches long cable
PE3MP2224-100cm = 100 cm long cable

TRB 3-Slot Plug to TRB Bulkhead Non-Insulated Jack 1553 Cable Using 78 Ohm PE-30-02003 Coax 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.

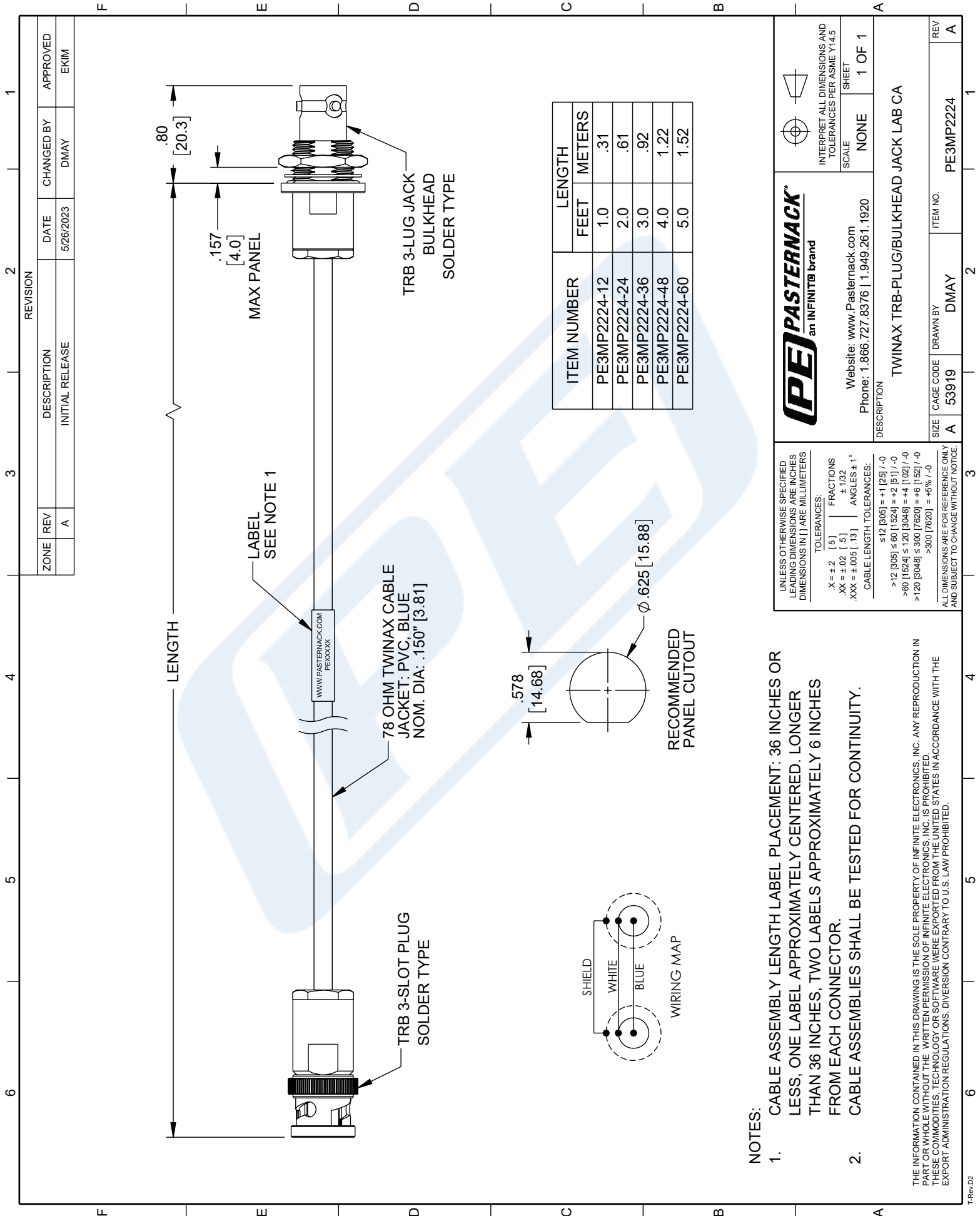
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TRB 3-Slot Plug to TRB Bulkhead Non-Insulated Jack 1553 Cable Using 78 Ohm PE-30-02003 Coax PE3MP2224](#)

URL: <https://www.pasternack.com/trb-plug-to-trb-jack-bulkhead-1553-cable-using-pe-30-02003-pe3mp2224-p.aspx>

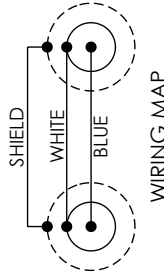
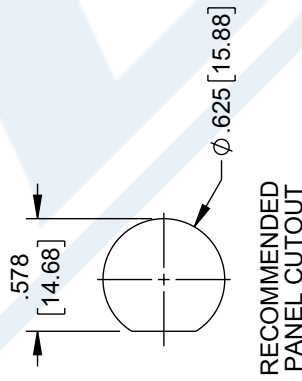
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PE3MP2224 CAD Drawing

TRB 3-Slot Plug to TRB Bulkhead Non-Insulated Jack
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ITEM NUMBER	LENGTH	
	FEET	METERS
PE3MP2224-12	1.0	.31
PE3MP2224-24	2.0	.61
PE3MP2224-36	3.0	.92
PE3MP2224-48	4.0	1.22
PE3MP2224-60	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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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION: TWINAX TRB-PLUG/BULKHEAD JACK LAB CA

SIZE: A	CAGE CODE: 53919	DRAWN BY: DMAY	ITEM NO.: PE3MP2224	REV: A
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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]	±.1 [25]	/-0
>60 [1524]	±.1 [25]	/-0
>120 [3048]	±.1 [25]	/-0
>300 [7620]	±.1 [25]	/-0

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