



Lead Free Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB
Bulkhead Non-Insulated Jack for 78 Ohm M17/176-00002 Cable

RF Cable Assemblies Technical Data Sheet

PE3MSA00444

Configuration

- Connector 1: TRB Plug
- Connector 2: TRB Jack Bulkhead
- Cable Type: M17/176-00002
- Coax Flex Type: Flexible

Features

- Max Frequency 10 MHz
- PFA Jacket
- MIL-STD-1553
- -55°C to +200°C
- 78 ohms

Applications

- General Purpose
- Laboratory Use
- Vehicle High Temperature
- Data
- MIL-STD-1553

Description

Pasternack's PE3MSA00444 78 ohm TRB plug to 78 ohm TRB jack bulkhead cable using 78 ohm M17/176-00002 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 M17/176-00002 twinax. The PE3MSA00444 TRB plug to TRB jack cable assembly operates to 10 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: [Lead Free Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Bulkhead Non-Insulated Jack for 78 Ohm M17/176-00002 Cable PE3MSA00444](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	MHz
Capacitance		24 [78.74]		pF/ft [pF/m]
Operating Voltage (AC)			750,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	7	10	MHz
Insertion Loss (Typ.)	0.014	0.021	0.028	0.035	0.045	dB/ft
	0.05	0.07	0.09	0.11	0.15	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 0.109 lbs [49.44 g]

Cable

Cable Type M17/176-00002
 Impedance 78 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Shield Layer 1 Silver Plated Copper
 Jacket Material PFA, 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 Bayonet	TRB Jack Bulkhead Bayonet
Option	Bend Relief Spring	Bend Relief Spring
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 -55 to +200 deg C

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

Plotted and Other Data

Notes:

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PE3MSA00444

How to Order

Part Number Configuration:

PE3MSA00444

- **xx**

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

Example: PE3MSA00444-12 = 12 inches long cable
PE3MSA00444-100cm = 100 cm long cable

Lead Free Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Bulkhead Non-Insulated Jack for 78 Ohm M17/176-00002 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.

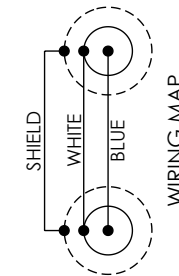
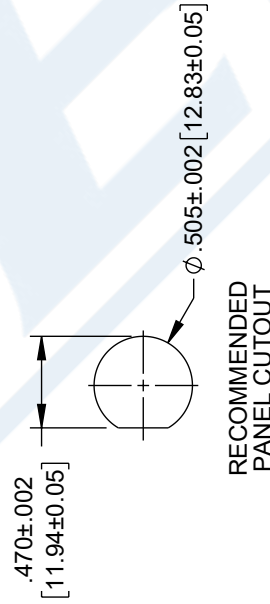
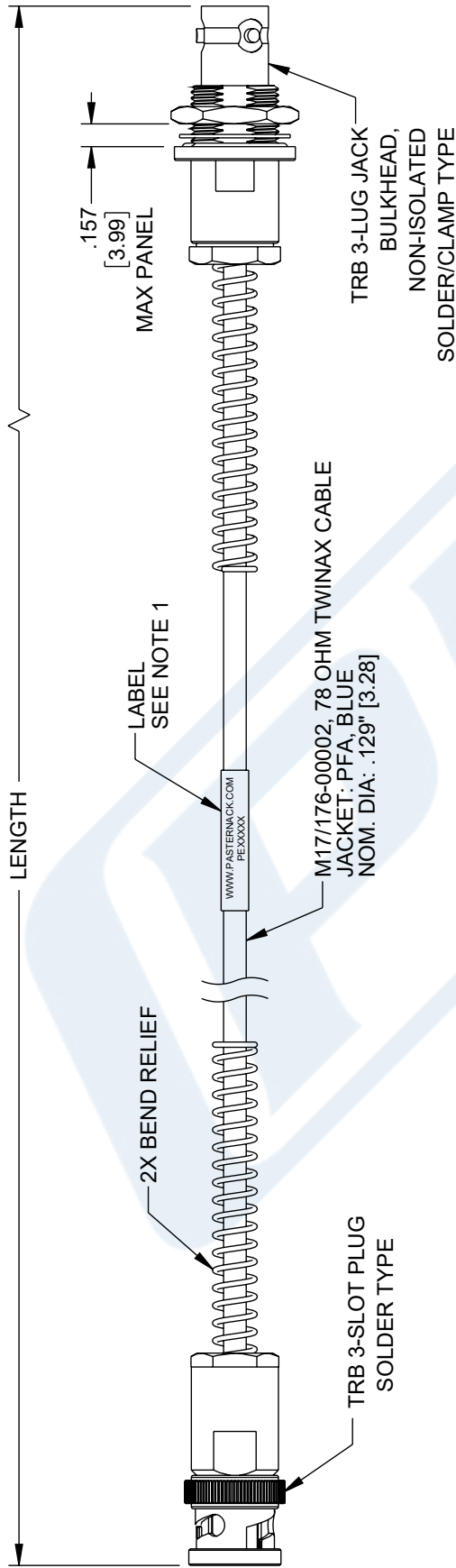
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URL: <https://www.pasternack.com/trb-plug-to-trb-jack-1553-cable-using-m17-176-00002-pe3msa00444-p.aspx>

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.

Lead Free Bend Relief 3-Slot TRB Plug to Bend Relief 3-Lug TRB Bulkhead Non-Insulated Jack for 78 Ohm M17/176-00002 Cable

LEAD FREE SOLDER



ITEM NUMBER	LENGTH	
	FEET	METERS
PE3MSA00444-12	1.0	.31
PE3MSA00444-24	2.0	.61
PE3MSA00444-36	3.0	.92
PE3MSA00444-48	4.0	1.22
PE3MSA00444-60	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.

REGULATORY COMPLIANCE:

EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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an INFINITE brand

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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 [.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.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE

SHEET 1 OF 1

DESCRIPTION
LEAD FREE HT 1553 TWINX PLUG BR-BH JACK BR

SIZE A CAGE CODE 53919 DRAWN BY DMAY ITEM NO. PE3MSA00444

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