



Lead Free 3-Lug TRB Bulkhead Insulated Jack with
Blunt Cut for 78 Ohm M17/176-00002, 60" Cable

RF Cable Assemblies Technical Data Sheet

PE3MSA00451-60

Configuration

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

Features

- Max Frequency 10 GHz
- 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 PE3MSA00451-60 78 ohm TRB jack bulkhead to 78 ohm Blunt cut genderless 60 inch 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 Blunt Cut cable assembly has a jack to genderless gender configuration with 78 ohm flexible M17/176-00002 twinax. The PE3MSA00451-60 TRB jack to Blunt cut genderless cable assembly operates to 10 GHz. 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.

Electrical Specifications

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 60" Cable PE3MSA00451-60](#)



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Mechanical Specifications

Cable Assembly

Length* 60 in [152.4 cm]

Weight 0.14 lbs [63.5 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]

Connectors

Description	Connector 1	Connector 2
Type	TRB Jack Bulkhead Bayonet	Blunt Cut Genderless Other
Option	Insulated Bulk Head	
Impedance	78 Ohms	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 -55 to +200 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:

PE3MSA00451

- **xx**

uu

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

Example: PE3MSA00451-12 = 12 inches long cable
PE3MSA00451-100cm = 100 cm long cable

Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 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 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 60" Cable PE3MSA00451-60](#)

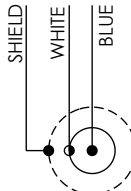
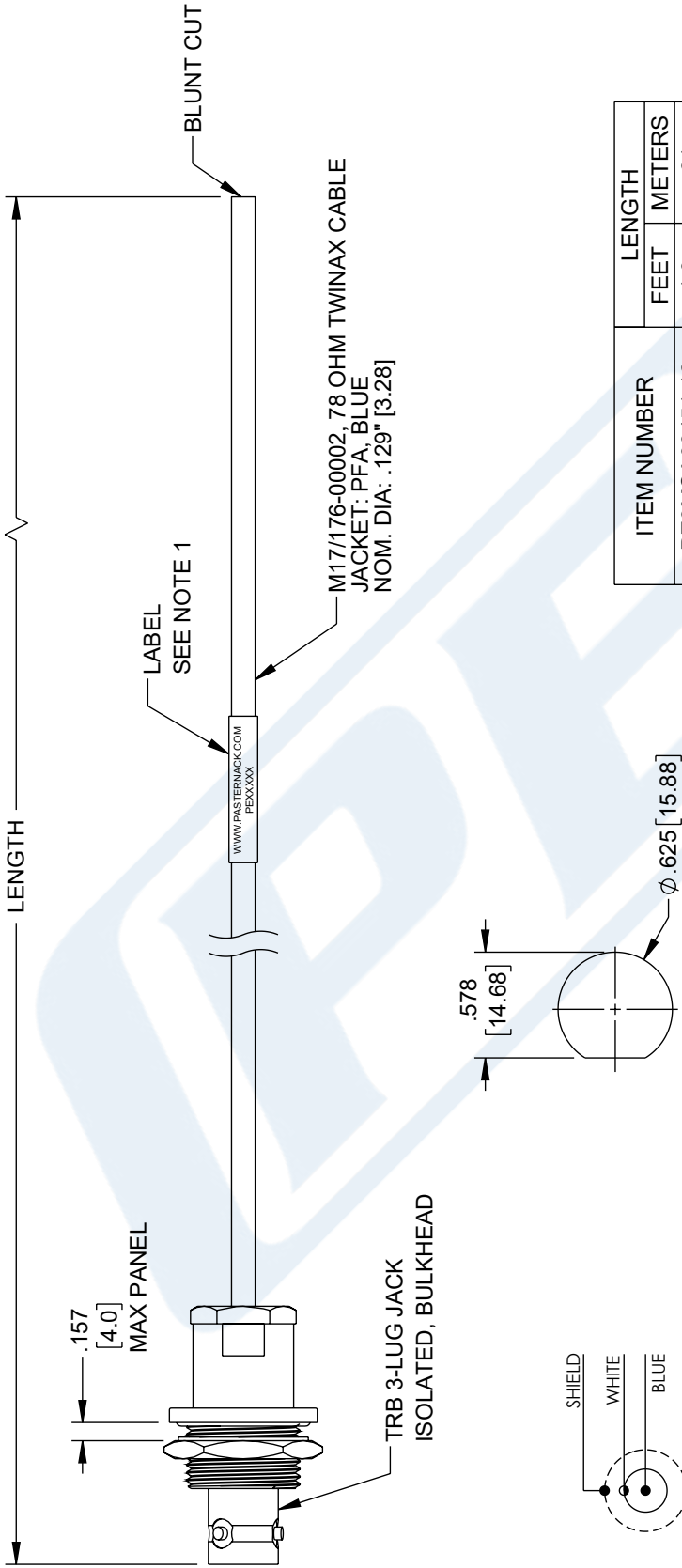
URL: <https://www.pasternack.com/trb-jack-bulkhead-to-blunt-cut-genderless-1553-cable-60-inch-length-using-m17-176-00002-pe3msa00451-60-p.aspx>

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.

PE3MSA00451-60 CAD Drawing

Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt
Cut for 78 Ohm M17/176-00002, 60" Cable

LEAD FREE SOLDER



ITEM NUMBER	LENGTH	
	FEET	METERS
PE3MSA00451-12	1.0	.31
PE3MSA00451-24	2.0	.61
PE3MSA00451-36	3.0	.92
PE3MSA00451-48	4.0	1.22
PE3MSA00451-60	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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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	05/02/2023	DMAY	EKIM

PASTERNAK
an INFINITE brand

Website: 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 [.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 TWX INS BH JACK-BLUNT

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	DMAY	PE3MSA00451	A