



TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead
1553 Cable Using 124 Ohm TWC-124-2 Coax

RF Cable Assemblies Technical Data Sheet

PE3MSA00653

Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRB 3-Lug Jack Bulkhead
- Cable Type: TWC-124-2
- Coax Flex Type: Flexible

Features

- Max Frequency 500 MHz
- PVC Jacket
- 124 ohms
- Twinaxial
- MIL-STD-1553B
- -40°C to +80°C
- Lead Free Solder
- Standard and Custom Lengths Available

Applications

- General Purpose
- Laboratory Use
- MIL-STD-1553B Applications
- Data Transmission

Description

Pasternack's PE3MSA00653 78 ohm TRB 3-Slot plug to 78 ohm TRB 3-Lug jack bulkhead cable using 124 ohm TWC-124-2 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 3-Slot to TRB 3-Lug cable assembly has a plug to jack gender configuration with 124 ohm flexible TWC-124-2 twinax. The PE3MSA00653 TRB 3-Slot plug to TRB 3-Lug jack cable assembly operates to 500 MHz. Our RF cable assembly with TRB 3-Lug 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 3-Lug Jack Bulkhead 1553 Cable Using 124 Ohm TWC-124-2 Coax PE3MSA00653](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		500	MHz
Capacitance		12.3 [40.35]		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	500	MHz
Insertion Loss (Typ.)	0.017	0.036	0.051	0.072	0.114	dB/ft
	0.06	0.12	0.17	0.24	0.37	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.2 lbs [90.72 g]

Cable

Cable Type TWC-124-2
Impedance 124 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 1.25 in [31.75 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Slot Plug Bayonet	TRB 3-Lug Jack Bulkhead Bayonet
Specification	MIL-STD-1553	MIL-STD-1553
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
Seal Gasket Material	Rubber	

Environmental Specifications

Temperature

Operating Range

-40 to +80 deg C

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

Plotted and Other Data

Notes:

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1553 Cable Using 124 Ohm TWC-124-2 Coax

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PE3MSA00653

How to Order

Part Number Configuration:

PE3MSA00653

- **xx**

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

Example: PE3MSA00653-12 = 12 inches long cable
PE3MSA00653-100cm = 100 cm long cable

TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead 1553 Cable Using 124 Ohm TWC-124-2 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 3-Lug Jack Bulkhead 1553 Cable Using 124 Ohm TWC-124-2 Coax PE3MSA00653](https://www.pasternack.com/trb-3-slot-plug-to-trb-3-lug-jack-bulkhead-1553-cable-using-twc-124-2-pe3msa00653-p.aspx)

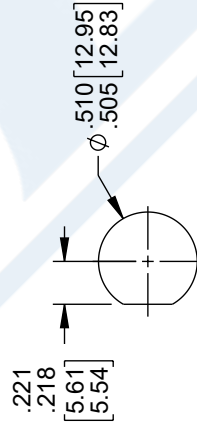
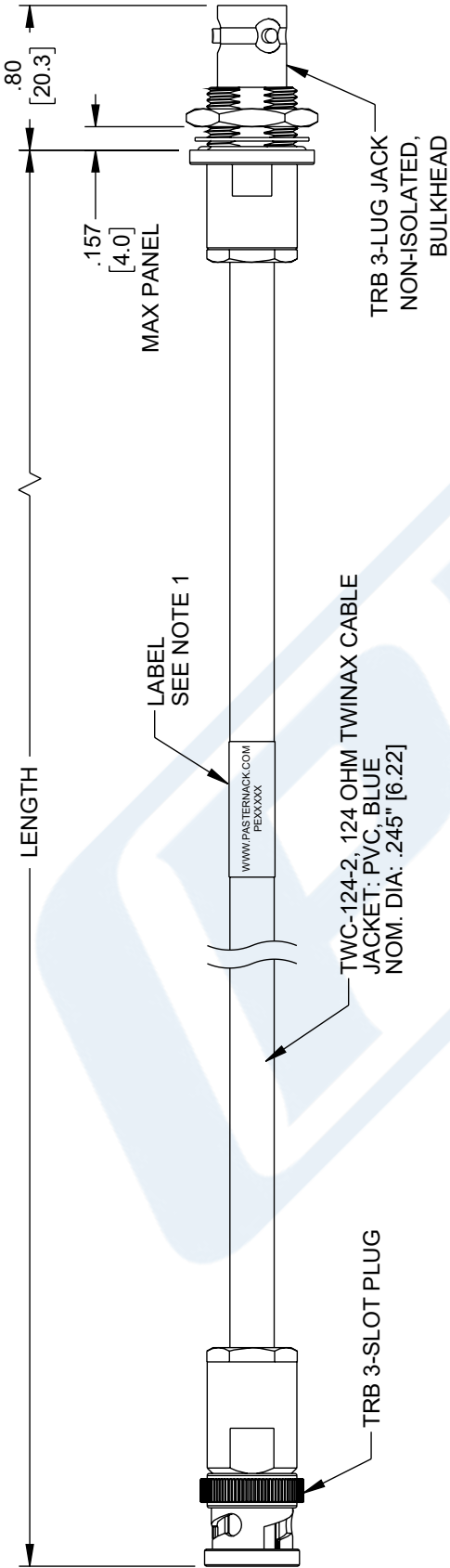
URL: <https://www.pasternack.com/trb-3-slot-plug-to-trb-3-lug-jack-bulkhead-1553-cable-using-twc-124-2-pe3msa00653-p.aspx>

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PE3MSA00653 CAD Drawing

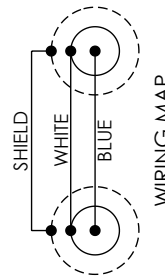
TRB 3-Slot Plug to TRB 3-Lug Jack Bulkhead 1553 Cable
Using 124 Ohm TWC-124-2 Coax

LEAD FREE SOLDER



RECOMMENDED
PANEL CUTOUT

ITEM NUMBER	LENGTH	
	FEET	METERS
PE3MSA00653-12	1.0	.31
PE3MSA00653-24	2.0	.61
PE3MSA00653-36	3.0	.92
PE3MSA00653-48	4.0	1.22
PE3MSA00653-60	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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Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION

ROHS LAB RATED 124 OHM 1553 TWINAX TRB PLUG - BULKHEAD JACK

SIZE: A

CAGE CODE: 53919

DRAWN BY: DMAY

ITEM NO.: PE3MSA00653

REV: A

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.