



TRB 3-Lug Jack to TRB 3-Lug Jack 1553 Cable Using 124 Ohm TWC-124-2 Coax Bend Relief Spring

RF Cable Assemblies Technical Data Sheet

PE3MSA00668

Configuration

- Connector 1: TRB 3-Lug Jack
- Connector 2: TRB 3-Lug Jack
- 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 PE3MSA00668 78 ohm TRB 3-Lug jack to 78 ohm TRB 3-Lug jack 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-Lug to TRB 3-Lug cable assembly has a jack to jack gender configuration with 124 ohm flexible TWC-124-2 twinax. The PE3MSA00668 TRB 3-Lug jack to TRB 3-Lug jack cable assembly operates to 500 MHz.

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-Lug Jack to TRB 3-Lug Jack 1553 Cable Using 124 Ohm TWC-124-2 Coax Bend Relief Spring PE3MSA00668](#)



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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	

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 0.1928 lbs [87.45 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-Lug Jack Bayonet	TRB 3-Lug Jack Bayonet
Option	Bend Relief Spring	Bend Relief Spring
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

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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RF Cable Assemblies Technical Data Sheet

PE3MSA00668

How to Order

Part Number Configuration:

PE3MSA00668

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3MSA00668-12 = 12 inches long cable
PE3MSA00668-100cm = 100 cm long cable

TRB 3-Lug Jack to TRB 3-Lug Jack 1553 Cable Using 124 Ohm TWC-124-2 Coax Bend Relief Spring 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.

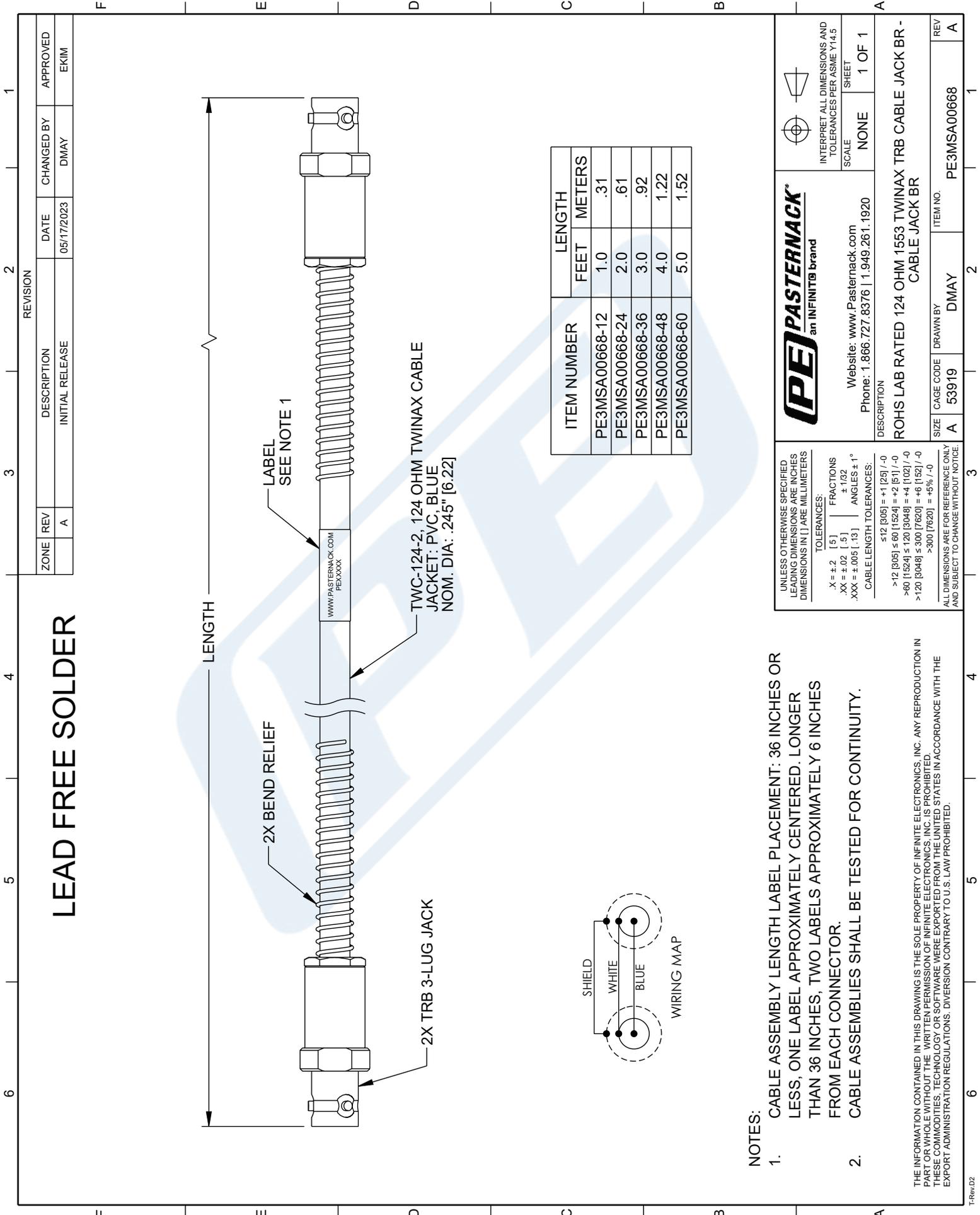
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TRB 3-Lug Jack to TRB 3-Lug Jack 1553 Cable Using 124 Ohm TWC-124-2 Coax Bend Relief Spring PE3MSA00668](https://www.pasternack.com/trb-3-lug-jack-to-trb-3-lug-jack-1553-cable-using-twc-124-2-pe3msa00668-p.aspx)

URL: <https://www.pasternack.com/trb-3-lug-jack-to-trb-3-lug-jack-1553-cable-using-twc-124-2-pe3msa00668-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.

PE3MSA00668 CAD Drawing

TRB 3-Lug Jack to TRB 3-Lug Jack 1553 Cable Using
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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	05/17/2023	DMAY	EKIM

ITEM NUMBER	LENGTH	
	FEET	METERS
PE3MSA00668-12	1.0	.31
PE3MSA00668-24	2.0	.61
PE3MSA00668-36	3.0	.92
PE3MSA00668-48	4.0	1.22
PE3MSA00668-60	5.0	1.52

PE PASTERNAK
an INFINITO brand

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

DESCRIPTION
ROHS LAB RATED 124 OHM 1553 TWINAX TRB CABLE JACK BR -
CABLE JACK BR

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

SIZE: A CAGE CODE: DMAY DRAWN BY: DMAY ITEM NO.: PE3MSA00668 REV: A

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

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ±.102 [-.13] ANGLES ± 1°
 .XX = ±.02 [0.5] ±.102
 .XXX = ±.005 [0.13] ±.102

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.

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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