



Halogen Free Bend Relief 3-Lug TRB Bulkhead Insulated
Jack to Jack for 78 Ohm TWCH-78-2, 24" Cable

RF Cable Assemblies Technical Data Sheet

PE3MSA00239-24

Configuration

- Connector 1: TRB Jack Bulkhead
- Connector 2: TRB Jack Bulkhead
- Cable Type: TWCH-78-2
- Coax Flex Type: Flexible

Features

- Max Frequency 500 MHz
- HF POF Jacket
- MIL-STD-1553
- -30°C to +80°C
- 78 ohms
- Halogen Free
- Non-Toxic

Applications

- General Purpose
- Laboratory Use
- Military Contractors
- MIL-STD-1553
- Data
- Safer Environments
- Ventilation critical areas

Description

Pasternack's PE3MSA00239-24 78 ohm TRB jack bulkhead to 78 ohm TRB jack bulkhead 24 inch cable using 78 ohm TWCH-78-2 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 to TRB cable assembly has a jack to jack gender configuration with 78 ohm flexible TWCH-78-2 twinax. The PE3MSA00239-24 TRB jack 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: [Halogen Free Bend Relief 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm TWCH-78-2, 24" Cable PE3MSA00239-24](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		500	MHz
Capacitance		21.2 [69.55]		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.)	0.244	0.302	0.35	0.41	0.52	dB

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

Length*	24 in [609.6 mm]
Weight	0.18 lbs [81.65 g]

Cable

Cable Type	TWCH-78-2
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	HF POF, Blue

One Time Minimum Bend Radius	1.5 in [38.1 mm]
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Connectors

Description	Connector 1	Connector 2
Type	TRB Jack Bulkhead	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

-30 to +80 deg C

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

Plotted and Other Data

Notes:

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PE3MSA00239-24

How to Order

Part Number Configuration:

PE3MSA00239

- **xx**

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

Example: PE3MSA00239-12 = 12 inches long cable
PE3MSA00239-100cm = 100 cm long cable

Halogen Free Bend Relief 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm TWCH-78-2, 24" 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.

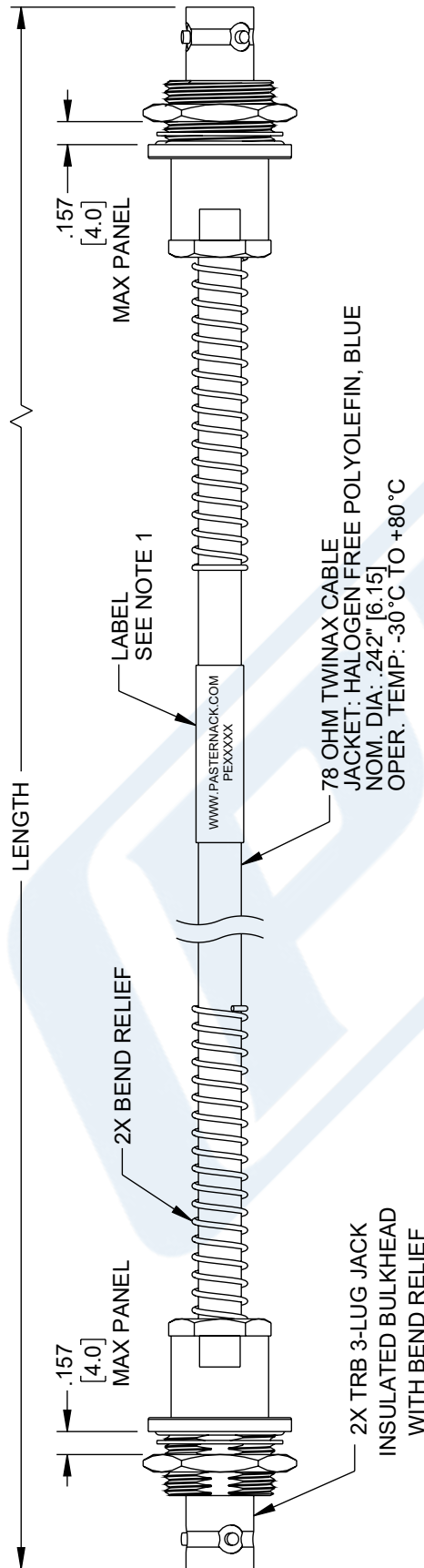
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Halogen Free Bend Relief 3-Lug TRB Bulkhead Insulated Jack to Jack for 78 Ohm TWCH-78-2, 24" Cable PE3MSA00239-24](https://www.pasternack.com/trb-jack-to-trb-jack-1553-cable-24-inch-length-using-twch-78-2-pe3msa00239-24-p.aspx)

URL: <https://www.pasternack.com/trb-jack-to-trb-jack-1553-cable-24-inch-length-using-twch-78-2-pe3msa00239-24-p.aspx>

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	05/02/2023	DMAY	EKIM



ITEM NUMBER	LENGTH	
	FEET	METERS
PE3MSA00239-12	1.0	.31
PE3MSA00239-24	2.0	.61
PE3MSA00239-36	3.0	.92
PE3MSA00239-48	4.0	1.22
PE3MSA00239-60	5.0	52

NOTES:

1. 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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
$.X = \pm .2$	[5] FRACTIONS
$.XX = \pm .02$	[.5] $\pm 1/32$
$.XXX = \pm .005$	[.13] ANGLES $\pm ^\circ$
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] = $\pm 5\%$ / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.	