



Lead Free LSZH Bend Relief 3-Slot TRB Plug with Blunt Cut for 78 Ohm TWCH-78-2 Cable

RF Cable Assemblies Technical Data Sheet

PE3MSA00581

Configuration

- Connector 1: TRB Plug
- Connector 2: Blunt Cut Genderless
- 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
- ROHS Low Smoke Zero Halogen
- Non-Toxic

Applications

- | | | |
|------------------------|---------------------|------------------------------|
| • General Purpose | • MIL-STD-1553 | • Ventilation critical areas |
| • Laboratory Use | • Data | • Hospitals |
| • Military Contractors | • Safer Enviroments | |

Description

Pasternack's PE3MSA00581 78 ohm TRB plug to Blunt cut genderless 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 Blunt Cut cable assembly has a plug to genderless gender configuration with 78 ohm flexible TWCH-78-2 twinax. The PE3MSA00581 TRB plug to Blunt cut genderless 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: [Lead Free LSZH Bend Relief 3-Slot TRB Plug with Blunt Cut for 78 Ohm TWCH-78-2 Cable PE3MSA00581](#)



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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.)	0.022	0.051	0.075	0.105	0.16	dB/ft
	0.07	0.17	0.25	0.34	0.52	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 0.048 lbs [21.77 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 1.25 in [31.75 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TRB Plug Bayonet	Blunt Cut Genderless Other
Option	Bend Relief Spring	
Impedance	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 -30 to +80 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:

PE3MSA00581

- **xx**

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

Example: PE3MSA00581-12 = 12 inches long cable
PE3MSA00581-100cm = 100 cm long cable

Lead Free LSZH Bend Relief 3-Slot TRB Plug with Blunt Cut for 78 Ohm TWCH-78-2 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.

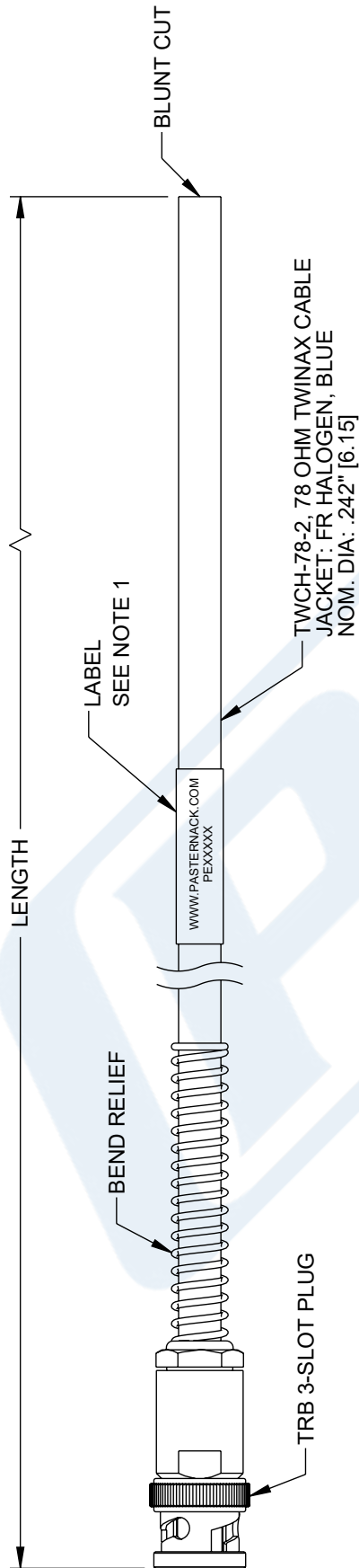
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Lead Free LSZH Bend Relief 3-Slot TRB Plug with Blunt Cut for 78 Ohm TWCH-78-2 Cable PE3MSA00581](#)

URL: <https://www.pasternack.com/trb-plug-to-blunt-cut-genderless-1553-cable-using-twch-78-2-pe3msa00581-p.aspx>

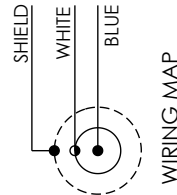
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LEAD FREE SOLDER



ITEM NUMBER	LENGTH	
	FEET	METERS
PE3MSA00581-12	1.0	.31
PE3MSA00581-24	2.0	.61
PE3MSA00581-36	3.0	.92
PE3MSA00581-48	4.0	1.22
PE3MSA00581-60	5.0	1.52



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		 		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES: X = ±.2 [.5] FRACTIONS .XX = ±.02 [.5] ± 1/32 XXX = ±.005 [.13] ANGLES ± °		SCALE NONE		SHEET 1 OF 1	
CABLE LENGTH TOLERANCES: 512 [305] = +1 [25] / -0 >120 [305] ≤ 60 [1524] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +6% / -0		DESCRIPTION LEAD FREE LSZH 0.242" OD LAB TWINX PLUG BR - BLUNT		Website: www.PasterNack.com Phone: 1.866.727.8376 1.949.261.1920	
SIZE A	CAGE CODE 53919	DRAWN BY DMAY	ITEM NO. PE3MSA00581		REV A
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.					