



ROHS LSZH 78 Ohm TRB 2-Slot Solder/Clamp  
Plug to Plug for TWCH-78-2, 12" Cable

**RF Cable Assemblies Technical Data Sheet**

**PE3MSA00603-12**

**Configuration**

- Connector 1: TRB Plug
- Connector 2: TRB Plug
- Cable Type: TWCH-78-2

**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
- Laboratory Use
- Military Contractors
- MIL-STD-1553
- Data
- Safer Environments
- Ventilation critical areas
- Hospitals

**Description**

Pasternack's PE3MSA00603-12 78 ohm TRB plug to 78 ohm TRB plug 12 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 plug to plug gender configuration with 78 ohm flexible TWCH-78-2 twinax. The PE3MSA00603-12 TRB plug to TRB plug cable assembly operates to 500 MHz. The PE3MSA00603 cable assembly consists of a 78 Ohm ROHS Low Smoke Zero Halogen TRB 2-Slot Solder/Clamp Plug to Plug for TWCH-78-2 cable (.242 O.D.) suitable for MIL-STD-1553 Applications. The zero halogen jacket cable reduces the amount of toxic and corrosive gases emitted during combustion. Typically used in poorly ventilated areas, zero halogen is very popular with military contractors and anywhere the protection of people and equipment from toxic and corrosive gases is critical.

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 Plug to TRB Plug 1553 Cable 12 Inch Length Using 78 Ohm TWCH-78-2 Coax PE3MSA00603-12](#)



ROHS LSZH 78 Ohm TRB 2-Slot Solder/Clamp  
Plug to Plug for TWCH-78-2, 12" Cable

## RF Cable Assemblies Technical Data Sheet

**PE3MSA00603-12**

### 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.)	0.222	0.251	0.275	0.305	0.36	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*	12 in [304.8 mm]
Weight	0.3 lbs [136.08 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]
------------------------------	--------------------

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TRB Plug to TRB Plug 1553 Cable 12 Inch Length Using 78 Ohm TWCH-78-2 Coax PE3MSA00603-12](#)



ROHS LSZH 78 Ohm TRB 2-Slot Solder/Clamp  
Plug to Plug for TWCH-78-2, 12" Cable

## RF Cable Assemblies Technical Data Sheet

**PE3MSA00603-12**

### Connectors

Description	Connector 1	Connector 2
Type	TRB Plug	TRB Plug
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:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TRB Plug to TRB Plug 1553 Cable 12 Inch Length Using 78 Ohm TWCH-78-2 Coax PE3MSA00603-12](#)



ROHS LSZH 78 Ohm TRB 2-Slot Solder/Clamp  
Plug to Plug for TWCH-78-2, 12" Cable

## RF Cable Assemblies Technical Data Sheet

**PE3MSA00603-12**

### How to Order

Part Number Configuration:

**PE3MSA00603**

- **xx**

**uu**

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

Example: PE3MSA00603-12 = 12 inches long cable  
PE3MSA00603-100cm = 100 cm long cable

ROHS LSZH 78 Ohm TRB 2-Slot Solder/Clamp Plug to Plug for TWCH-78-2, 12" 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.

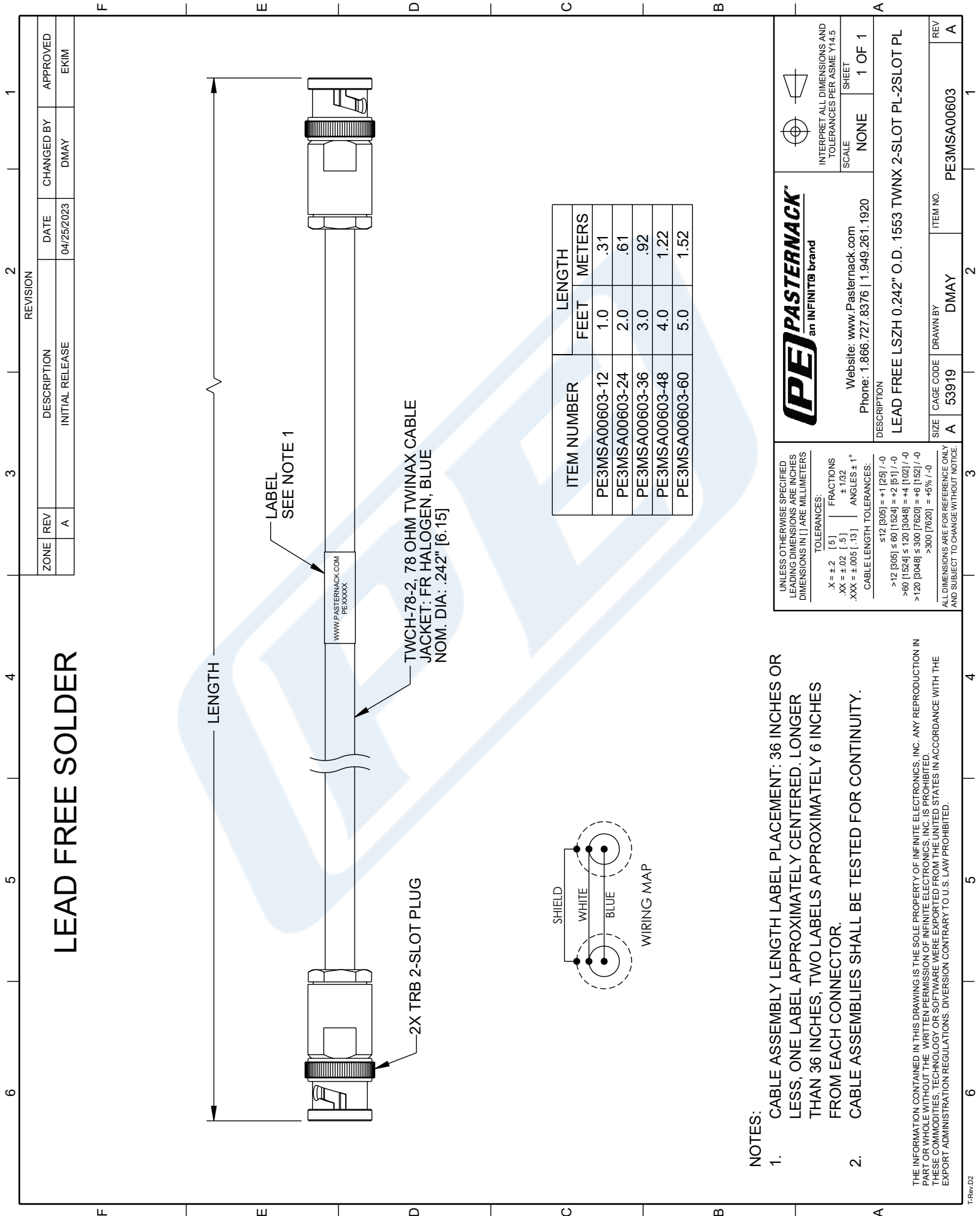
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TRB Plug to TRB Plug 1553 Cable 12 Inch Length Using 78 Ohm TWCH-78-2 Coax PE3MSA00603-12](https://www.pasternack.com/trb-plug-to-trb-plug-1553-cable-12-inch-length-using-twch-78-2-pe3msa00603-12-p.aspx)

URL: <https://www.pasternack.com/trb-plug-to-trb-plug-1553-cable-12-inch-length-using-twch-78-2-pe3msa00603-12-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.

# PE3MSA00603-12 CAD Drawing

ROHS LSZH 78 Ohm TRB 2-Slot Solder/Clamp Plug to Plug for TWCH-78-2, 12" Cable



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	04/25/2023	DMAY	EKIM

ITEM NUMBER	LENGTH	
	FEET	METERS
PE3MSA00603-12	1.0	.31
PE3MSA00603-24	2.0	.61
PE3MSA00603-36	3.0	.92
PE3MSA00603-48	4.0	1.22
PE3MSA00603-60	5.0	1.52

**PE PASTERNAK**  
an INFINITO brand

Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION  
**LEAD FREE LSZH 0.242" O.D. 1553 TWNX 2-SLOT PL-2SLOT PL**

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

---

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

TOLERANCES:  
 .X = ±.2 [ .5 ] FRACTIONS ±.1032  
 .XX = ±.02 [ .5 ] ±.1032  
 .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.

**LEAD FREE SOLDER**

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.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

