



LSZH 2-Slot TRB Plug to 3-Lug TRB Jack 1553 Twinax  
48" Cable Using 78 Ohm TWCH-78-2

## RF Cable Assemblies Technical Data Sheet

**PE3MSA00605-48**

### Configuration

- Connector 1: TRB PLUG
- Connector 2: TRB Jack
- 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
- Laboratory Use
- Military Contractors
- MIL-STD-1553
- Data
- Safer Environments
- Ventilation critical areas
- Hospitals

### Description

Pasternack's PE3MSA00605-48 78 ohm TRB plug to 78 ohm TRB jack 48 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 jack gender configuration with 78 ohm flexible TWCH-78-2 twinax. The PE3MSA00605-48 TRB plug to TRB 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: [LSZH 2-Slot TRB Plug to 3-Lug TRB Jack 1553 Twinax 48" Cable Using 78 Ohm TWCH-78-2 PE3MSA00605-48](#)



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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.) | 0.29 | 0.41 | 0.5 | 0.62 | 0.84 | 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* | 48 in [121.92 cm]  |
| Weight  | 0.25 lbs [113.4 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                     | TRB Jack                     |
| 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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**RF Cable Assemblies Technical Data Sheet**

**PE3MSA00605-48**

**How to Order**

Part Number Configuration:

**PE3MSA00605**

- **xx**

**uu**

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

Example: PE3MSA00605-12 = 12 inches long cable  
PE3MSA00605-100cm = 100 cm long cable

LSZH 2-Slot TRB Plug to 3-Lug TRB Jack 1553 Twinax 48" Cable Using 78 Ohm TWCH-78-2 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: [LSZH 2-Slot TRB Plug to 3-Lug TRB Jack 1553 Twinax 48" Cable Using 78 Ohm TWCH-78-2 PE3MSA00605-48](https://www.pasternack.com/lszh-trb-plug-to-trb-jack-1553-cable-48-inch-length-using-twch-78-2-pe3msa00605-48-p.aspx)

URL: <https://www.pasternack.com/lszh-trb-plug-to-trb-jack-1553-cable-48-inch-length-using-twch-78-2-pe3msa00605-48-p.aspx>

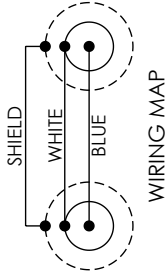
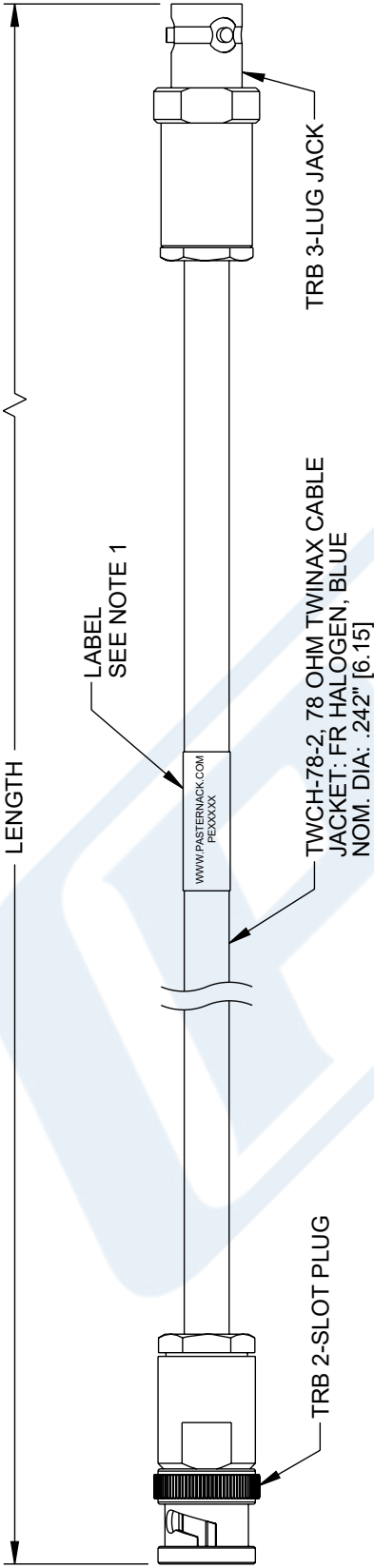
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PE3MSA00605-48 CAD Drawing

LSZH 2-Slot TRB Plug to 3-Lug TRB Jack 1553 Twinax

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LEAD FREE SOLDER



| ITEM NUMBER    | LENGTH |        |
|----------------|--------|--------|
|                | FEET   | METERS |
| PE3MSA00605-12 | 1.0    | .31    |
| PE3MSA00605-24 | 2.0    | .61    |
| PE3MSA00605-36 | 3.0    | .92    |
| PE3MSA00605-48 | 4.0    | 1.22   |
| PE3MSA00605-60 | 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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| ZONE | REV | DESCRIPTION     | DATE       | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
|      | A   | INITIAL RELEASE | 05/12/2023 | DMAY       | EKIM     |



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

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.

INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5

SCALE NONE

SHEET 1 OF 1

DESCRIPTION  
ROHS LSZH .242" OD TRB 2-SLOT PLUG - TRB CABLE JACK

|      |           |          |             |
|------|-----------|----------|-------------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO.    |
| A    | 53919     | DMAY     | PE3MSA00605 |

REV A