



ROHS Low Smoke Zero Halogen 78 Ohm TRB
2-Slot Solder/Clamp Plug with Blunt Cut for TWCH-
78-2, 60" Cable (.242" O.D.) -30C +80C

RF Cable Assemblies Technical Data Sheet

PE3MSA00604-60

Configuration

- Connector 1: TRB Plug
- Connector 2: Blunt Cut
- 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 PE3MSA00604-60 78 ohm TRB plug to Blunt cut 60 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. The PE3MSA00604-60 TRB plug to Blunt cut cable assembly operates to 500 MHz. The PE3MSA00604 cable assembly consists of a 78 Ohm ROHS Low Smoke Zero Halogen TRB 2-Slot Solder/Clamp Plug with Blunt Cut 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 Blunt Cut 1553 Cable 60 Inch Length Using 78 Ohm TWCH-78-2 Coax PE3MSA00604-60](#)



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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 |

Insertion Loss (Typ.)

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* | 60 in [152.4 cm] |
| Weight | 0.39531 lbs [179.31 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] |
|------------------------------|--------------------|

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|------------------------------|-------------|
| Type | TRB Plug | Blunt Cut |
| 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 | |

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Environmental Specifications

Temperature

Operating Range

-30 to +80 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

PE3MSA00604

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3MSA00604-12 = 12 inches long cable
PE3MSA00604-100cm = 100 cm long cable

ROHS Low Smoke Zero Halogen 78 Ohm TRB 2-Slot Solder/Clamp Plug with Blunt Cut for TWCH-78-2, 60" Cable (.242" O.D.) -30C +80C 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.

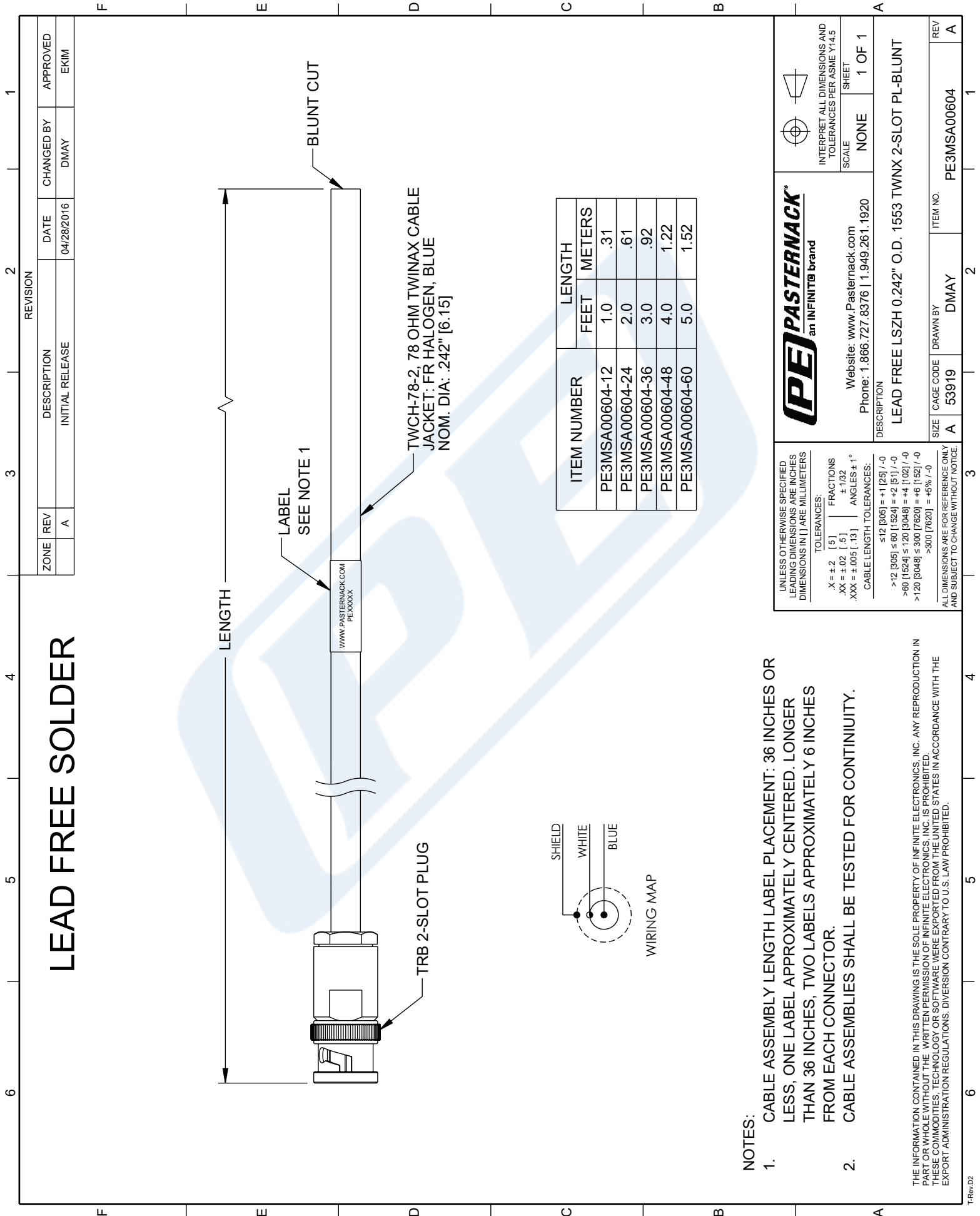
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URL: <https://www.pasternack.com/trb-plug-to-blunt-cut-1553-cable-60-inch-length-using-twch-78-2-pe3msa00604-60-p.aspx>

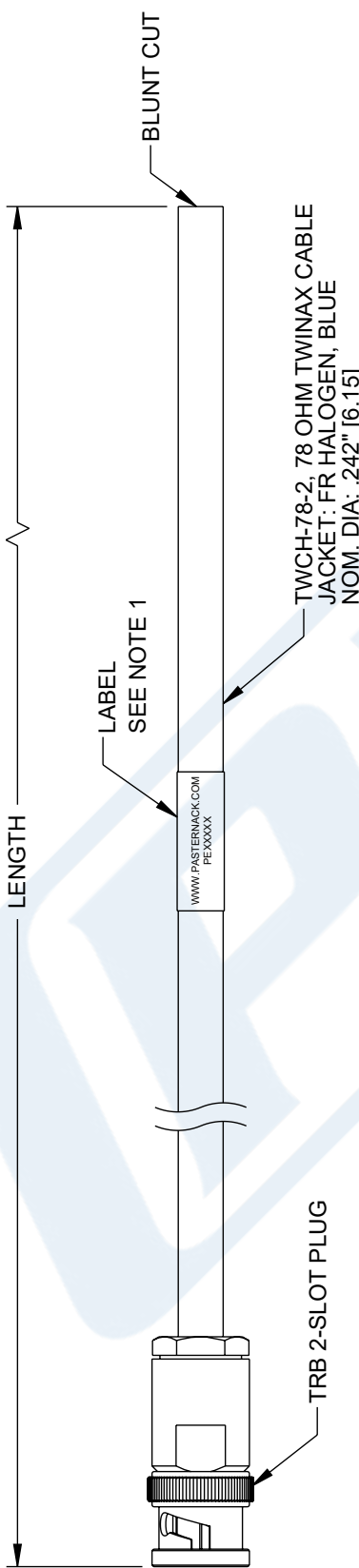
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PE3MSA00604-60 CAD Drawing

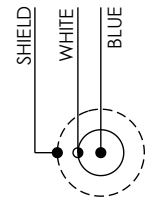
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with Blunt Cut for TWCH-78-2, 60" Cable (.242" O.D.) -30C +80C



LEAD FREE SOLDER



| ITEM NUMBER | LENGTH | |
|----------------|--------|--------|
| | FEET | METERS |
| PE3MSA00604-12 | 1.0 | .31 |
| PE3MSA00604-24 | 2.0 | .61 |
| PE3MSA00604-36 | 3.0 | .92 |
| PE3MSA00604-48 | 4.0 | 1.22 |
| PE3MSA00604-60 | 5.0 | 1.52 |



WIRING MAP

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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| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| | A | INITIAL RELEASE | 04/28/2016 | DMAY | EKIM |

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Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

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

| | | | |
|------|-----------|----------|-------------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | DMAY | PE3MSA00604 |

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

TOLERANCES:
 .X = ±.2 [.5] FRACTIONS ±.1/32
 .XX = ±.02 [.5] ANGLES ± 1°
 .XXX = ±.005 [.13]

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.