

4.3-10 Female Bulkhead to 4.3-10 Male Low PIM Cable Using TFT-5G-402 Coax with Times Microwave Components



PE3W15448

Configuration

- Connector 1: 4.3-10 Female Bulkhead
- Connector 2: 4.3-10 Male
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

Description

Pasternack's PE3W15448 4.3-10 female bulkhead to 4.3-10 male cable using TFT-5G-402 coax 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 4.3-10 to 4.3-10 cable assembly has a female to male gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3W15448 4.3-10 female to 4.3-10 male cable assembly operates to 6 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. Our RF cable assembly with 4.3-10 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. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 80 dB.

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.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---------|-------------|---------|--------------|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | 80 | | | dB |
| Passive Intermodulation IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz | | | -160 | dBc |
| Capacitance | | 26.7 [87.6] | | pF/ft [pF/m] |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | Units | Weight (lbs) |
|-----------------|--------------------------|-----------------------|-----------|-------|-------|-------|-------|--------------|
| | | | Frequency | 500 | 1000 | 2500 | 6000 | |
| PE3W15448 | Custom Lengths Available | Insertion Loss (Typ.) | 0.081 | 0.111 | 0.188 | 0.295 | dB/ft | |
| | | | 0.27 | 0.37 | 0.62 | 0.97 | dB/m | |
| PE3W15448-12 | 12 In | Insertion Loss (Typ.) | 0.43 | 0.46 | 0.53 | 0.64 | dB | 0.088 |
| PE3W15448-24 | 24 In | Insertion Loss (Typ.) | 0.51 | 0.57 | 0.72 | 0.93 | dB | 0.117 |
| PE3W15448-36 | 36 In | Insertion Loss (Typ.) | 0.59 | 0.68 | 0.91 | 1.23 | dB | 0.145 |
| PE3W15448-60 | 60 In | Insertion Loss (Typ.) | 0.75 | 0.9 | 1.28 | 1.82 | dB | 0.201 |
| PE3W15448-200CM | 200 CM | Insertion Loss (Typ.) | 0.88 | 1.07 | 1.58 | 2.28 | dB | 0.245 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

| | |
|-----------------------------|----------------|
| Loss due to Connector 1: | 0.1 dB |
| Loss due to Connector 2: | 0.24 dB |
| Base Weight: | 0.088 pounds |
| Additional Weight per Inch: | 0.00234 pounds |

Mechanical Specifications

Cable Assembly

| | |
|----------------|---------------------|
| Width/Diameter | .5 in [12.7 mm] |
| Weight | 0.088 lbs [39.92 g] |

Cable

| | |
|--|--------------------|
| Cable Type | TFT-5G-402 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Shield Layer 1 | Tin |
| Outer Conductor 1 Material and Plating | Copper, Tin |
| Jacket Material | FEP, Blue |
| Jacket Diameter | 0.16 in [4.06 mm] |
| One Time Minimum Bend Radius | 0.75 in [19.05 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|-------------------------|-------------------|
| Type | 4.3-10 Female Bulkhead | 4.3-10 Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Phosphor Bronze, Silver | Brass, Silver |
| Contact Plating Specification | 200 µin | 200 µin |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | Brass, Tri-Metal | |
| Outer Conductor Plating Specification | 80 µin | |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 80 µin | 80 µin |
| Coupling Nut Material and Plating | | Brass, Tri-Metal |
| Coupling Nut Plating Specification | | 80 µin |
| Torque | | 44 in-lbs 4.97 Nm |

Environmental Specifications

Operating Range Temperature -55 to +85 deg C

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

Plotted and Other Data

Notes:

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PE3W15448

Typical Performance Data

How to Order

Part Number Configuration:

PE3W15448

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W15448-12 = 12 inches long cable
PE3W15448-100cm = 100 cm long cable

4.3-10 Female Bulkhead to 4.3-10 Male Low PIM Cable Using TFT-5G-402 Coax with Times Microwave Components 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.

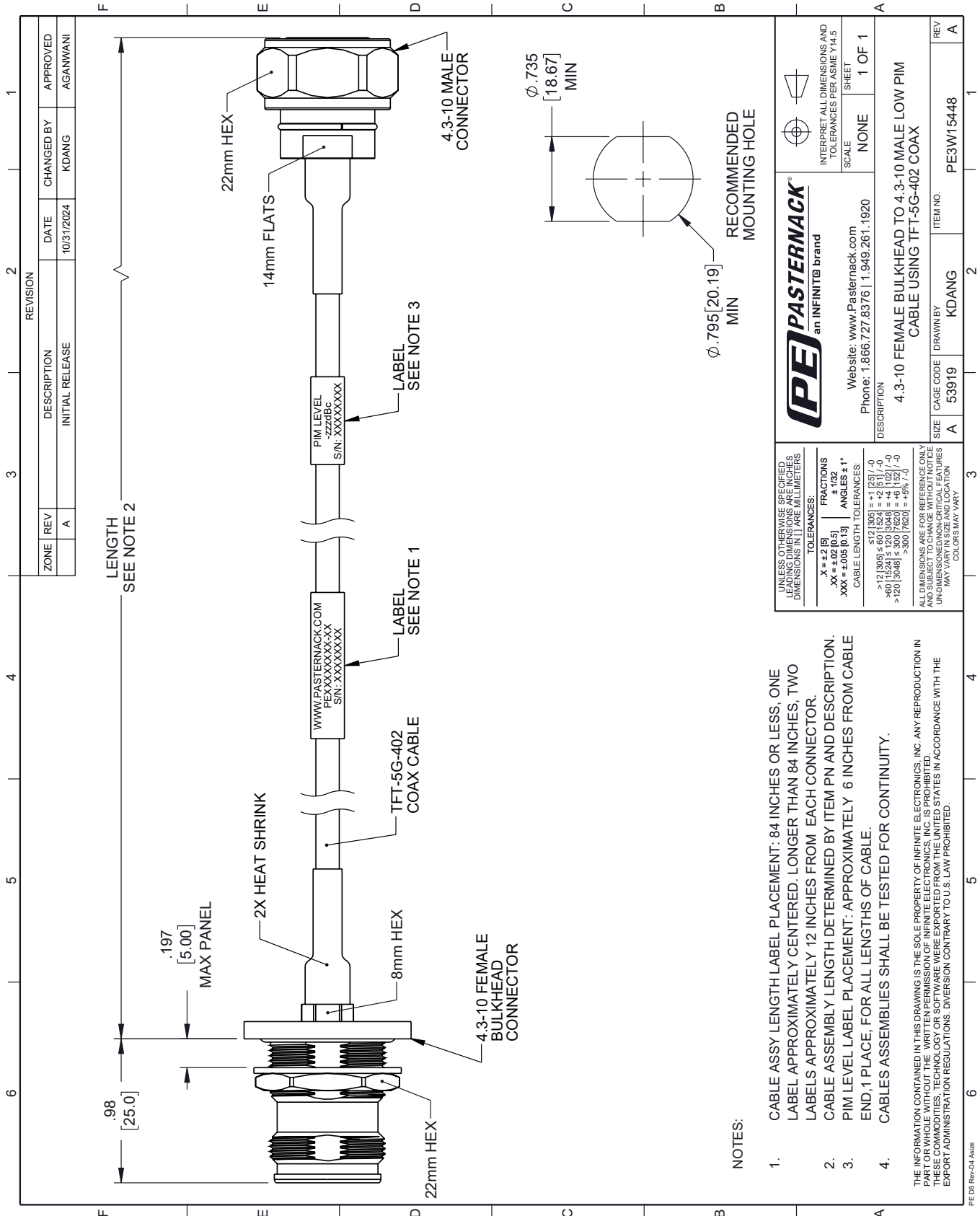
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Female Bulkhead to 4.3-10 Male Low PIM Cable Using TFT-5G-402 Coax with Times Microwave Components PE3W15448](#)

URL: <https://www.pasternack.com/4.3-10-female-bulkhead-to-4.3-10-male-low-pim-cable-using-tft-5g-402-pe3w15448-p.aspx>

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W15448 CAD Drawing

4.3-10 Female Bulkhead to 4.3-10 Male Low PIM Cable Using TFT-5G-402 Coax with Times Microwave Components



| REVISION | | DATE | CHANGED BY | APPROVED |
|----------|-----|-----------------|------------|----------|
| ZONE | REV | DESCRIPTION | | |
| | A | INITIAL RELEASE | KDANG | AGANWANI |

LENGTH SEE NOTE 2

| | | |
|---|-----------------|--|
| PASTERNAK an INFINITB brand | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1 |
| Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | | |
| DESCRIPTION 4.3-10 FEMALE BULKHEAD TO 4.3-10 MALE LOW PIM CABLE USING TFT-5G-402 COAX | | |
| SIZE A | CAGE CODE 53919 | ITEM NO. PE3W15448 |
| DRAWN BY KDANG | | REV A |

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

ANGLES ± 1°
 CABLE LENGTH TOLERANCES:
 ≤ 12 [305] ± .60 [1524] = ± 4 [1027] / -0
 > 12 [305] ± .60 [1524] = ± 4 [1027] / -0
 > 20 [508] ± .30 [7620] = ± .93 [23.17] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY

NOTES:

- CABLE ASSY LENGTH LABEL PLACEMENT: 84 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROXIMATELY 12 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- PIM LEVEL LABEL PLACEMENT: APPROXIMATELY 6 INCHES FROM CABLE END, 1 PLACE. FOR ALL LENGTHS OF CABLE.
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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