



## 4.1/9.5 Mini DIN Male to 7/16 DIN Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components

### RF Cable Assemblies Technical Data Sheet

**PE3C8233**

#### Configuration

- Connector 1: 4.1/9.5 Mini DIN Male
- Connector 2: 7/16 DIN Male
- Cable Type: TFT-402

#### Features

- Max Frequency 3 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > -80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

#### Description

Pasternack's PE3C8233 4.1/9.5 Mini DIN male to 7/16 DIN male cable using TFT-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 4.1/9.5 Mini DIN to 7/16 DIN cable assembly has a male to male gender configuration with 50 ohm flexible TFT-402 coax. The PE3C8233 4.1/9.5 Mini DIN male to 7/16 DIN male cable assembly operates to 3 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. 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      |         | 3       | GHz   |
| VSWR                    |         |         | 1.4:1   |       |
| Velocity of Propagation |         | 76      |         | %     |
| RF Shielding            | -80     |         |         | dB    |
| Passive Intermodulation |         |         | -160    | dBc   |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.1/9.5 Mini DIN Male to 7/16 DIN Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components PE3C8233](#)



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|                               |             |                 |
|-------------------------------|-------------|-----------------|
| Capacitance                   | 26.7 [87.6] | pF/ft [pF/m]    |
| DC Resistance Inner Conductor | 8.5 [27.89] | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor | 5.6 [18.37] | Ω/1000ft [Ω/Km] |

#### Specifications by Frequency

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 0.1   | 0.25  | 0.5   | 1     | 3     | GHz   |
| Insertion Loss (Typ.) | 0.032 | 0.052 | 0.076 | 0.108 | 0.188 | dB/ft |
|                       | 0.1   | 0.17  | 0.25  | 0.35  | 0.62  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Diameter 1.25 in [31.75 mm]

##### Cable

Cable Type TFT-402  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 2  
 Shield Layer 1 Silver Plated Copper Braid  
 Shield Layer 2 Tinned Copper Braid  
 Jacket Material FEP, Blue  
 Jacket Diameter 0.16 in [4.06 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.1/9.5 Mini DIN Male to 7/16 DIN Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components PE3C8233](#)



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#### Connectors

| Description                        | Connector 1           | Connector 2              |
|------------------------------------|-----------------------|--------------------------|
| Type                               | 4.1/9.5 Mini DIN Male | 7/16 DIN Male            |
| Impedance                          | 50 Ohms               | 50 Ohms                  |
| Contact Material and Plating       | Brass, Silver         | Brass, Silver            |
| Contact Plating Specification      | 5 µm                  | 5 µm                     |
| Dielectric Type                    | PTFE                  | PTFE                     |
| Body Material and Plating          | Brass, Tri-Metal      | Brass, Tri-Metal         |
| Body Plating Specification         | 2 µm                  | 3 µm                     |
| Coupling Nut Material and Plating  | Brass, Nickel         | Brass, Tri-Metal         |
| Coupling Nut Plating Specification | 5 µm                  | 3 µm                     |
| Torque                             | 106 in-lbs [11.98 Nm] | 22.083 ft-lbs [29.95 Nm] |

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +85 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: [4.1/9.5 Mini DIN Male to 7/16 DIN Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components PE3C8233](#)



## 4.1/9.5 Mini DIN Male to 7/16 DIN Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components

### RF Cable Assemblies Technical Data Sheet

**PE3C8233**

#### How to Order

Part Number Configuration:

**PE3C8233**

- **xx**

**uu**

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

Example: PE3C8233-12 = 12 inches long cable  
PE3C8233-100cm = 100 cm long cable

4.1/9.5 Mini DIN Male to 7/16 DIN Male Low PIM Cable Using TFT-402 Coax Using 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: [4.1/9.5 Mini DIN Male to 7/16 DIN Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components PE3C8233](https://www.pasternack.com/4.1-9.5-mini-din-male-7-16male-tft-402-cable-assembly-pe3c8233-p.aspx)

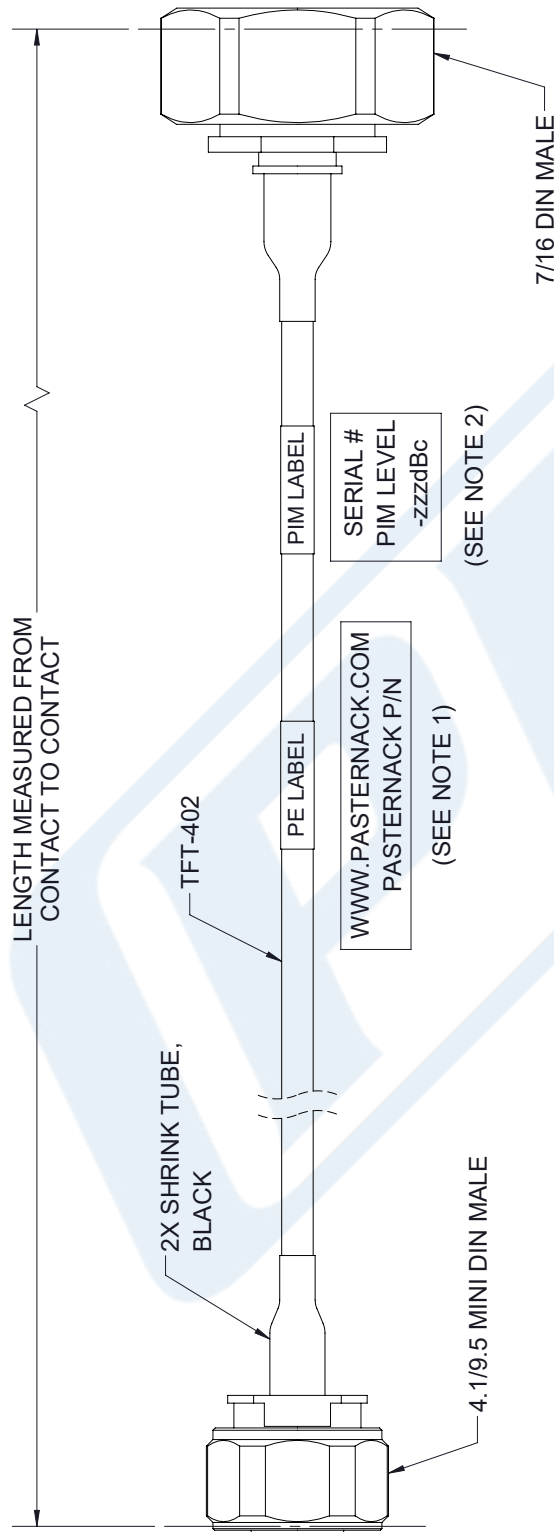
URL: <https://www.pasternack.com/4.1-9.5-mini-din-male-7-16male-tft-402-cable-assembly-pe3c8233-p.aspx>

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.

# PE3C8233 CAD Drawing

4.1/9.5 Mini DIN Male to 7/16 DIN Male Low PIM Cable Using  
TFT-402 Coax Using Times Microwave Components

| REVISIONS |                 |         |          |
|-----------|-----------------|---------|----------|
| REV.      | DESCRIPTION     | DATE    | APPROVED |
| A         | INITIAL RELEASE | 7/30/21 | SRAUTUS  |



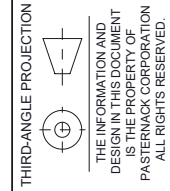
## NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS; ONE AT EACH END 12" FROM THE FRONT OF THE CONNECTOR.
2. PIM LABEL 6" FROM CABLE END 1 PLACE.

|                                                                                                  |           |
|--------------------------------------------------------------------------------------------------|-----------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |           |
| TOLERANCES:                                                                                      | FRACTIONS |
| .X = ±.2                                                                                         | [.08]     |
| .XX = ±.02                                                                                       | [.51]     |
| .XXX = ±.005                                                                                     | [.13]     |
| CABLE LENGTH (L) TOLERANCES:                                                                     |           |
| L ≤ 12 [305] = +1 [25] / -0                                                                      |           |
| 12 [305] < L ≤ 60 [1524] = +2 [51] / -0                                                          |           |
| 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0                                                       |           |
| 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0                                                      |           |
| 300 [7620] < L = +5% / -0                                                                        |           |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |           |



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SHEET 1 OF 1  
SCALE N/A

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|------|-----------|----------|----------|-----|
| A    | 53919     | DMAY     | PE3C8233 | A   |

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