

## 4.1/9.5 Mini DIN Male to 4.3-10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components



### PE3C8281-60

#### Configuration

- Connector 1: 4.1/9.5 Mini DIN Male
- Connector 2: 4.3-10 Male Right Angle
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

#### 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 PE3C8281-60 4.1/9.5 Mini DIN male to 4.3-10 male right angle 60 inch 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 4.1/9.5 Mini DIN to 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C8281-60 4.1/9.5 Mini DIN male to 4.3-10 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 right angle 4.3-10 interface on the TFT-5G-402 cable allows for easier connections in tight spaces. 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
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				

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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Capacitance		26.7 [87.6]		pF/ft [pF/m]

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.31	0.44	0.59	0.79	1.31	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 for the straight connector and  $0.1 \cdot \sqrt{FGHz}$  dB for the right angle connector.

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.866 in [22 mm]

**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  
 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	4.1/9.5 Mini DIN Male	4.3-10 Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles		500
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	5 $\mu$ m	200 $\mu$ in
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	2 $\mu$ m	80 $\mu$ in
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Specification	5 $\mu$ m	80 $\mu$ in
Torque	106 in-lbs 11.98 Nm	44 in-lbs 4.97 Nm

**Environmental Specifications**

Operating Range Temperature -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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### PE3C8281-60

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C8281**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C8281-12 = 12 inches long cable  
PE3C8281-100cm = 100 cm long cable

4.1/9.5 Mini DIN Male to 4.3-10 Male Right Angle Low PIM Cable Using TFT-5G-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.

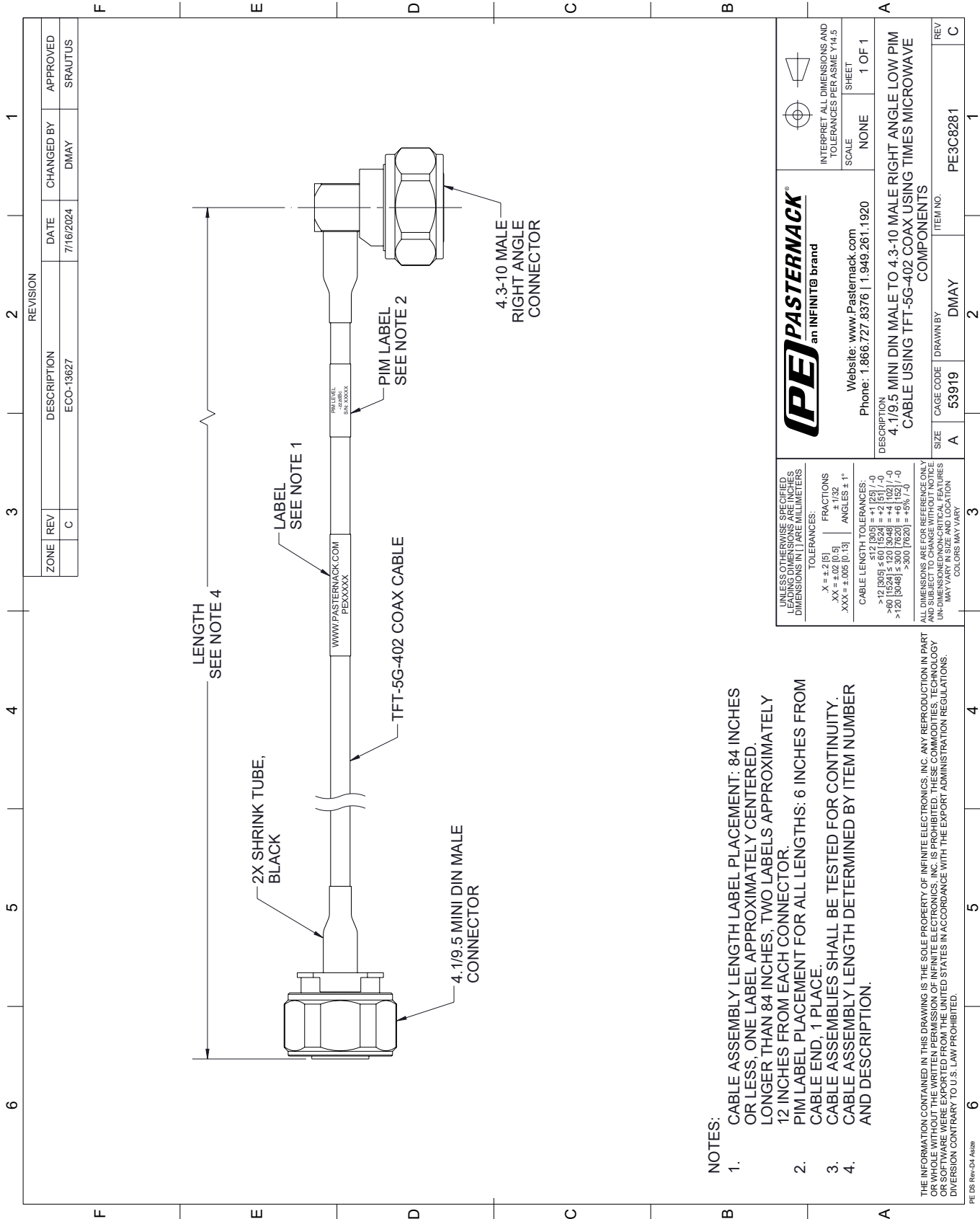
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.1/9.5 Mini DIN Male to 4.3-10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components PE3C8281-60](https://www.pasternack.com/4.1-9.5-mini-din-male-to-4.3-10-male-low-pim-cable-60-inch-length-using-tft-5g-402-pe3c8281-60-p.aspx)

URL: <https://www.pasternack.com/4.1-9.5-mini-din-male-to-4.3-10-male-low-pim-cable-60-inch-length-using-tft-5g-402-pe3c8281-60-p.aspx>

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# PE3C8281-60 CAD Drawing

4.1/9.5 Mini DIN Male to 4.3-10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components



**NOTES:**

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

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PE DS Rev-D4 Add2

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	C	7/16/2024	DMAY	SRAUTUS
DESCRIPTION		ECO-13627		

		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		SCALE	NONE
DESCRIPTION 4.1/9.5 MINI DIN MALE TO 4.3-10 MALE RIGHT ANGLE LOW PIM CABLE USING TFT-5G-402 COAX USING TIMES MICROWAVE COMPONENTS		SHEET	1 OF 1
SIZE	A	CAGE CODE	DMAY
ITEM NO.	53919	DRAWN BY	DMAY
REV	C	ITEM NO.	PE3C8281

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.

TOLERANCES:  
 X = ±.2(5) FRACTIONS ±.1(32)  
 .XX = ±.02(0.5) ANGLES ± 1°  
 .XXX = ±.005(0.13)

CABLE LENGTH TOLERANCES:  
 >12 [305] ≤ 60 [1524] = ±.5(1) / -0  
 >60 [1524] ≤ 120 [3048] = ±1 [25] / -0  
 >120 [3048] ≤ 300 [7620] = ±6 [152] / -0  
 >300 [7620] = ±5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.