

## 4.3-10 Male Right Angle to 7/16 DIN Male Right Angle Low PIM Cable 100 CM Length Using TFT-5G-402 Coax Using Times Microwave Components



### PE3C8306-100CM

#### Configuration

- Connector 1: 4.3-10 Male Right Angle
- Connector 2: 7/16 DIN Male Right Angle
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

#### Features

- Max Frequency 5.8 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 PE3C8306-100CM 4.3-10 male right angle to 7/16 DIN male right angle 100 cm 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 7/16 DIN cable assembly has a male to male gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C8306-100CM 4.3-10 male to 7/16 DIN male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The right angle 4.3-10 and right angle 7/16 DIN interfaces on the TFT-5G-402 cable allow 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		5.8	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	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.36	0.47	0.61	0.91	1.33	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  $0.1 \cdot \sqrt{F(\text{GHz})}$  dB for the 4.3-10 connector and 0.12 dB for the 7/16 DIN connector.

**Mechanical Specifications**

**Cable Assembly**

Length	39.37 in [100 cm]
Width/Diameter	1.25 in [31.75 mm]
Weight	lbs [0 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
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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## PE3C8306-100CM

### Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Male Right Angle	7/16 DIN Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Mating Cycles	500	
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin	100 µin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 µin	100 µin
Torque	44 in-lbs 4.97 Nm	22.083 ft-lbs 29.95 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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**PE3C8306-100CM**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3C8306**

**- xx**

**uu**

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

Example: PE3C8306-12 = 12 inches long cable  
PE3C8306-100cm = 100 cm long cable

4.3-10 Male Right Angle to 7/16 DIN Male Right Angle Low PIM Cable 100 CM Length 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.

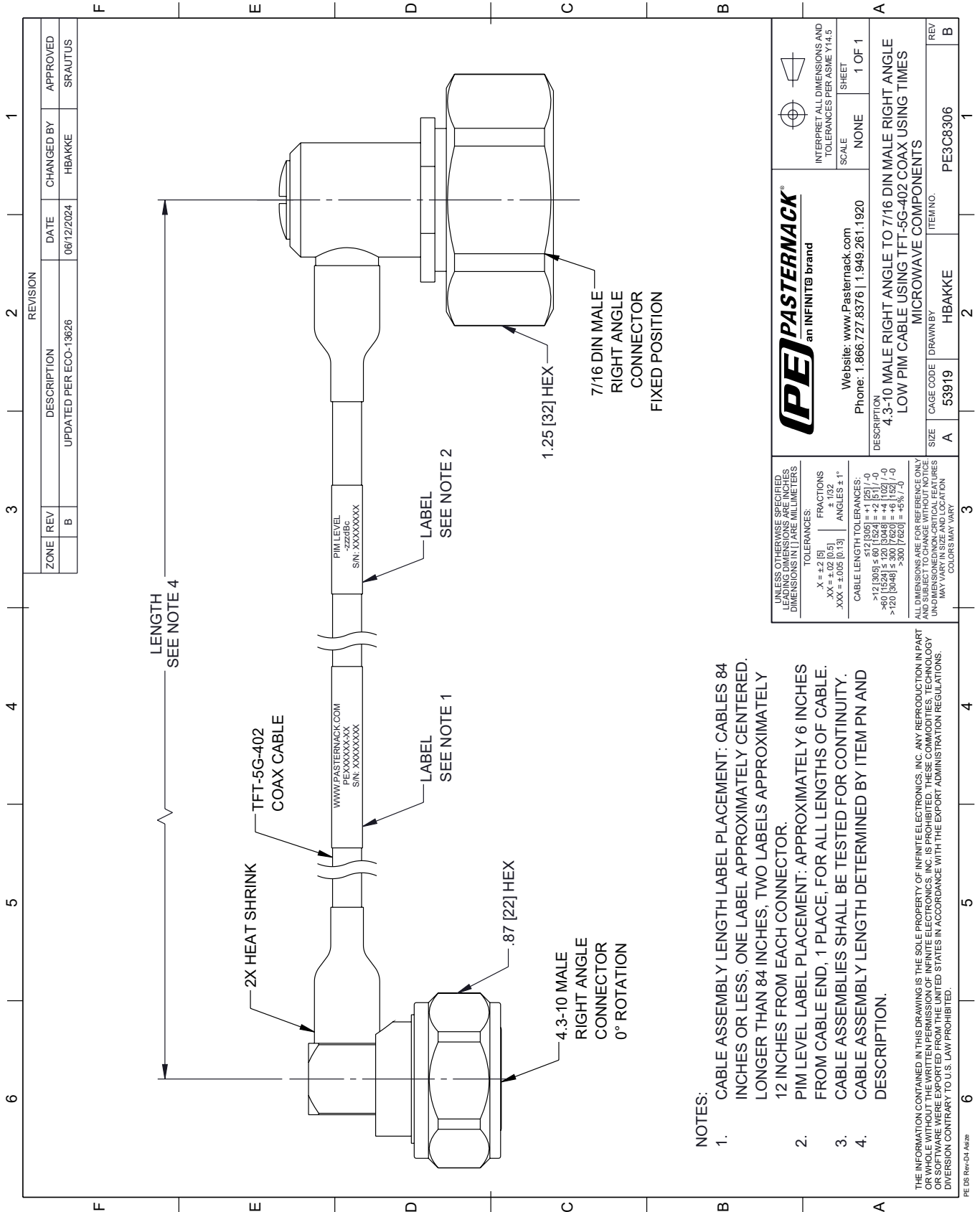
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male Right Angle to 7/16 DIN Male Right Angle Low PIM Cable 100 CM Length Using TFT-5G-402 Coax Using Times Microwave Components PE3C8306-100CM](https://www.pasternack.com/4.3-10-male-right-angle-to-7-16-din-male-right-angle-low-pim-cable-100-cm-length-using-tft-5g-402-pe3c8306-100cm.html)

URL: <https://www.pasternack.com/4.3-10-male-right-angle-to-7-16-din-male-low-pim-cable-100-cm-length-using-tft-5g-402-pe3c8306-100cm.html>

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# PE3C8306-100CM CAD Drawing

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**NOTES:**

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

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PE DS Rev-D4 Add2

		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: <a href="http://www.Pastermack.com">www.Pastermack.com</a> Phone: 1.866.727.8376   1.949.261.1920		DESCRIPTION: 4.3-10 MALE RIGHT ANGLE TO 7/16 DIN MALE RIGHT ANGLE LOW PIM CABLE USING TFT-5G-402 COAX USING TIMES MICROWAVE COMPONENTS	
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS.	TOLERANCES: .X = +.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]	FRACTIONS: ± 1/32 ANGLES ± 1°	CABLE LENGTH TOLERANCES: ≤ 12 [305] ± .60 [15.24] = ±.2 [5.1] / -0 > 12 [305] ≤ 60 [1524] ± 1.0 [25.4] = ±.4 [10.2] / -0 > 60 [1524] ≤ 120 [3048] ± 1.5 [38.1] = ±.6 [15.2] / -0 > 120 [3048] ± 3.00 [76.2] = ±1.5 [38.1] / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN [ ] ARE MILLIMETERS. COLORS MAY VARY.		SIZE: A CAGE CODE: 53919 DRAWN BY: HBAKKE	REV: B ITEM NO.: PE3C8306