



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

RF Cable Assemblies Technical Data Sheet

PE3W12907

Configuration

- Connector 1: 4.3-10 Female
- Connector 2: 4.3-10 Female
- Cable Type: TFT-5G-402

Features

- Max Frequency 5.8 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 PE3W12907 4.3-10 female to 4.3-10 female 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 female gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3W12907 4.3-10 female to 4.3-10 female 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 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

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 to 4.3-10 Female Low PIM Cable Using TFT-5G-402 Coax With Times Microwave Components PE3W12907](#)



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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	0.5	1	2.5	5.8		GHz
Insertion Loss (Typ.)	0.081	0.111	0.188	0.295		dB/ft
	0.27	0.36	0.62	0.97		dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1 \times \text{SQRT}(FGHz)$ dB per connector.

Mechanical Specifications

Cable Assembly

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 Silver Plated Copper Braid
 Shield Layer 2 Tinned Copper Braid
 Outer Conductor 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	4.3-10 Female
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Bronze, Silver	Bronze, Silver
Contact Plating Specification	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Outer Conductor Plating Specification	80 µin	80 µin
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin	80 µin

Environmental Specifications

Temperature

Operating Range

-55 to +85 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W12907

- **xx**

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

Example: PE3W12907-12 = 12 inches long cable
PE3W12907-100cm = 100 cm long cable

4.3-10 Female to 4.3-10 Female 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.

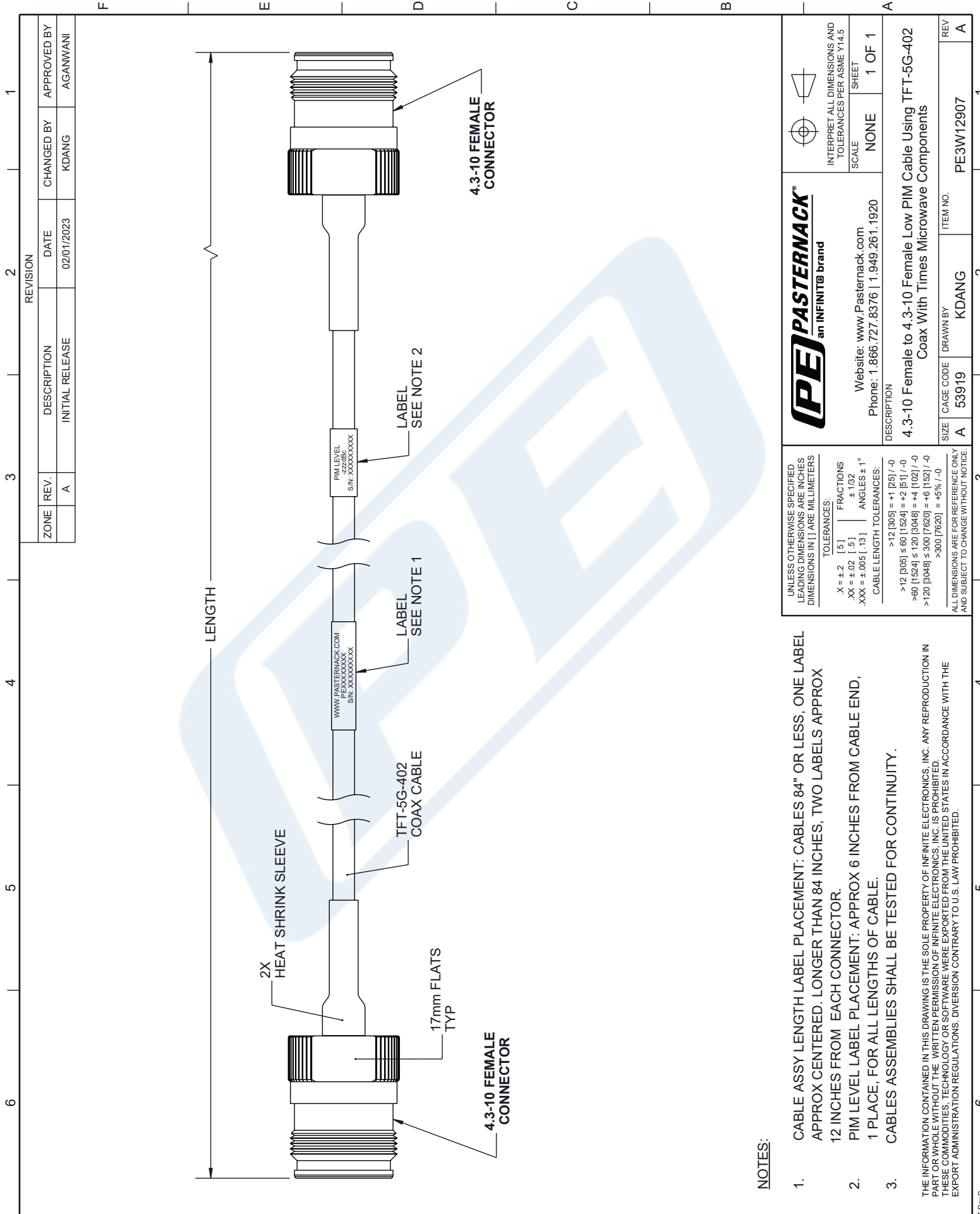
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Female to 4.3-10 Female Low PIM Cable Using TFT-5G-402 Coax With Times Microwave Components PE3W12907](https://www.pasternack.com/4.3-10-female-to-4.3-10-female-low-pim-cable-using-tft-5g-402-pe3w12907-p.aspx)

URL: <https://www.pasternack.com/4.3-10-female-to-4.3-10-female-low-pim-cable-using-tft-5g-402-pe3w12907-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.

PE3W12907 CAD Drawing

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



NOTES:

- CABLE ASSY LENGTH LABEL PLACEMENT: CABLES 84" OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROX 12 INCHES FROM EACH CONNECTOR.
 - PIM LEVEL LABEL PLACEMENT: APPROX 6 INCHES FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.
 - CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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<p>PASTERNAK an INFINIT@ brand</p> <p>Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
<p>DESCRIPTION: 4.3-10 Female to 4.3-10 Female Low PIM Cable Using TFT-5G-402 Coax With Times Microwave Components</p>		
<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES: .X = ±.2 [.5] FRACTIONS ±.1/32 .XX = ±.02 [.5] ANGLES ± 1° .XXX = ±.005 [.13]</p> <p>CABLE LENGTH TOLERANCES: >12 [305] = +1 [25] / -0 >60 [1524] = +2 [51] / -0 >120 [3048] = +4 [102] / -0 >300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.</p>	<p>SIZE: A</p> <p>CAGE CODE: 53919</p> <p>DRAWN BY: KDANG</p> <p>ITEM NO.: PE3W12907</p>	<p>REV: A</p>