

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



PE3W14983

Configuration

- Connector 1: 4.3-10 Male
- Connector 2: 4.3-10 Female
- 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 PE3W14983 4.3-10 male 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 male to female gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3W14983 4.3-10 male to 4.3-10 female cable assembly operates to 6 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		6	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				
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	MHz	
PE3W14983	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	
PE3W14983-12	12 In	Insertion Loss (Typ.)	0.57	0.6	0.67	0.78	dB	0.088
PE3W14983-24	24 In	Insertion Loss (Typ.)	0.65	0.71	0.86	1.07	dB	0.117
PE3W14983-36	36 In	Insertion Loss (Typ.)	0.73	0.82	1.05	1.37	dB	0.145
PE3W14983-60	60 In	Insertion Loss (Typ.)	0.89	1.04	1.42	1.96	dB	0.201
PE3W14983-200CM	200 CM	Insertion Loss (Typ.)	1.02	1.21	1.72	2.42	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: 0.24 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 Male	4.3-10 Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Silver	Bronze, 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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PE3W14983

Typical Performance Data

How to Order

Part Number Configuration: **PE3W14983** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

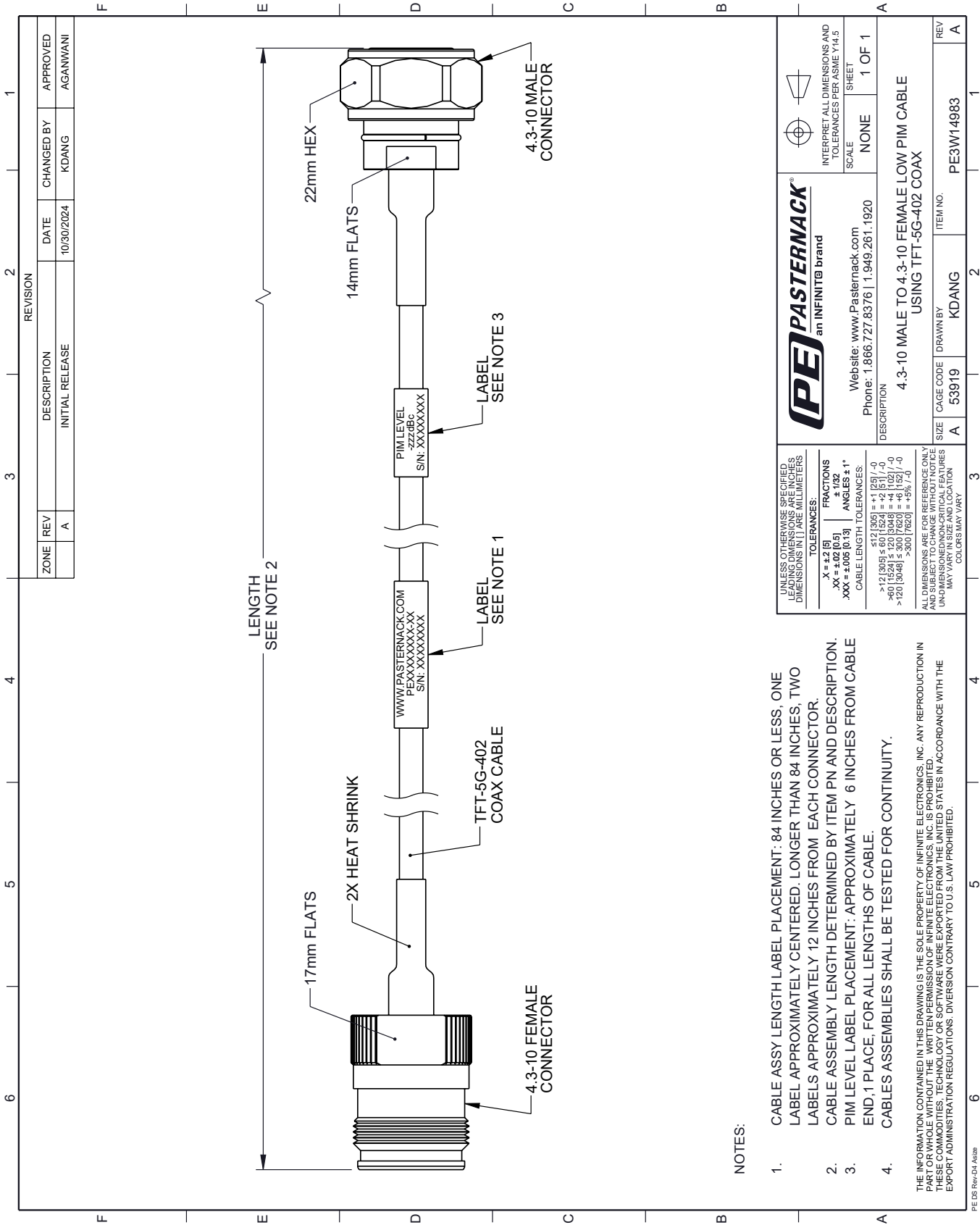
Example: PE3W14983-12 = 12 inches long cable
PE3W14983-100cm = 100 cm long cable

4.3-10 Male 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 Male to 4.3-10 Female Low PIM Cable Using TFT-5G-402 Coax with Times Microwave Components PE3W14983](https://www.pasternack.com/4.3-10-male-to-4.3-10-female-low-pim-cable-using-tft-5g-402-pe3w14983-p.aspx)

URL: <https://www.pasternack.com/4.3-10-male-to-4.3-10-female-low-pim-cable-using-tft-5g-402-pe3w14983-p.aspx>

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NOTES:

1. 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.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. PIM LEVEL LABEL PLACEMENT: APPROXIMATELY 6 INCHES FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.
4. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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PE DS Rev-04-Asize

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:

.X = ±.2 [5]	FRACTIONS ± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	CABLE LENGTH TOLERANCES:

≤ 12 [305]	±.1 [2.5]
> 12 [305] ≤ 60 [1524]	±.2 [5.1]
> 60 [1524] ≤ 120 [3048]	±.4 [10.2]
> 120 [3048]	±.6 [15.2]

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

PE PASTERNAK
an INFINITE brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE
SHEET 1 OF 1

DESCRIPTION
4.3-10 MALE TO 4.3-10 FEMALE LOW PIM CABLE USING TFT-5G-402 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KDANG	PE3W14983	A