

4.3-10 Male to 4.3-10 Female Low PIM Cable 24 Inch Length Using TFT-5G-402 Coax with Times Microwave Components



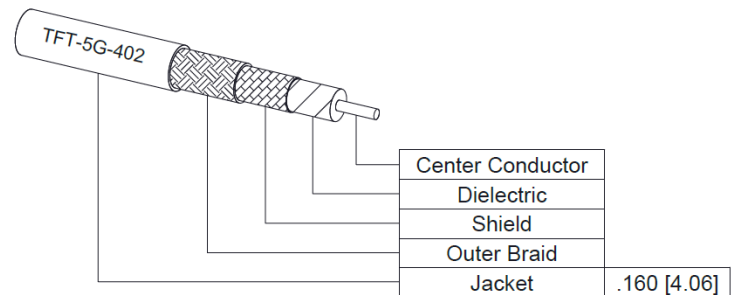
PE3W14983-24

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 PE3W14983-24 4.3-10 male to 4.3-10 female 24 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 4.3-10 to 4.3-10 cable assembly has a male to female gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3W14983-24 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 IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz			-160	dBc
Capacitance		26.7 [87.6]		pF/ft [pF/m]

Specifications by Frequency

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PE3W14983-24

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	500	1000	2500	6000	
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

Length	24 in [609.6 mm]
Width/Diameter	.5 in [12.7 mm]
Weight	0.117 lbs [53.07 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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PE3W14983-24

Typical Performance Data

How to Order

Part Number Configuration:

PE3W14983

- **xx**

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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 24 Inch Length 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.

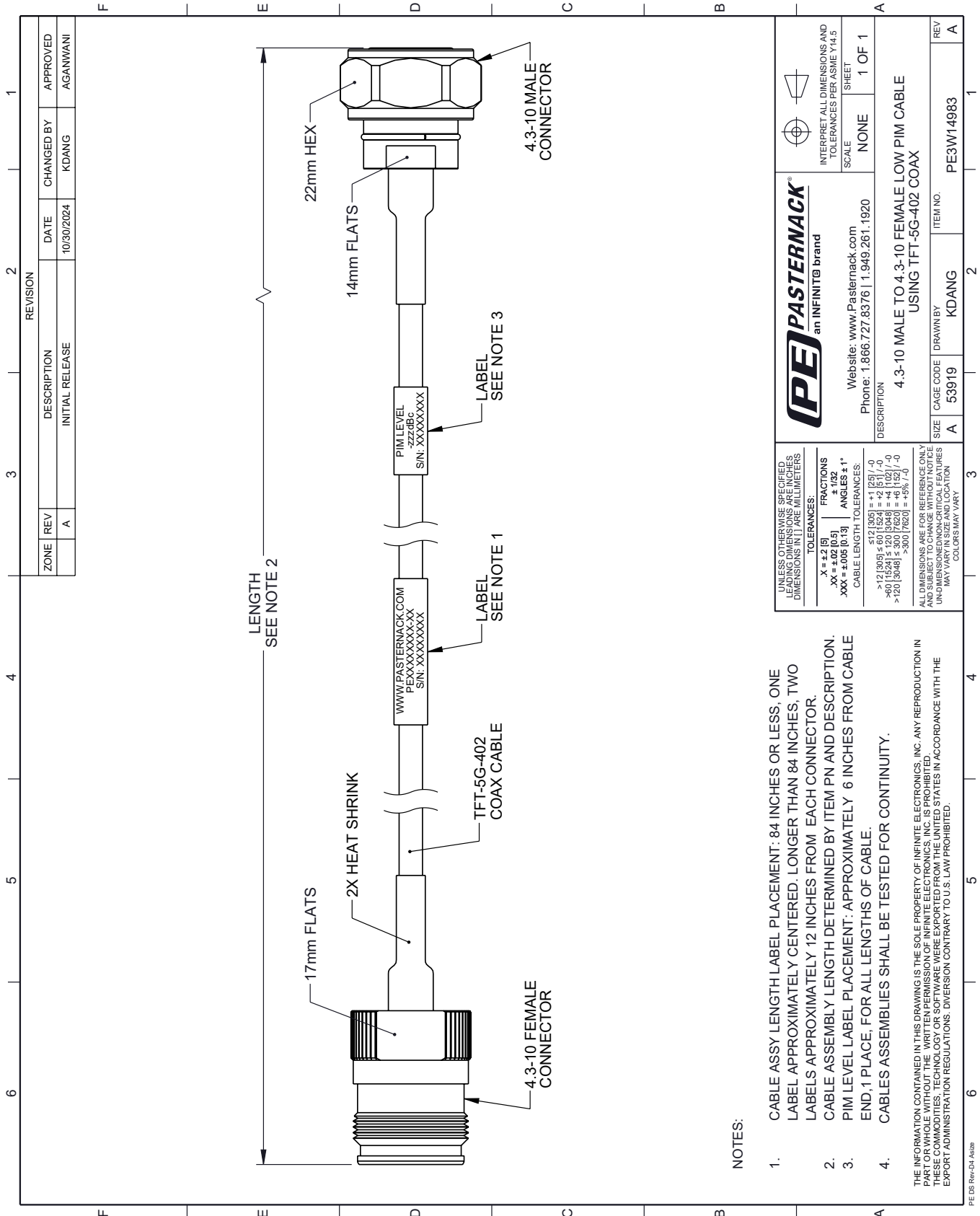
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male to 4.3-10 Female Low PIM Cable 24 Inch Length Using TFT-5G-402 Coax with Times Microwave Components PE3W14983-24](https://www.pasternack.com/4.3-10-male-to-4.3-10-female-low-pim-cable-24-inch-length-using-tft-5g-402-pe3w14983-24-p.aspx)

URL: <https://www.pasternack.com/4.3-10-male-to-4.3-10-female-low-pim-cable-24-inch-length-using-tft-5g-402-pe3w14983-24-p.aspx>

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PE3W14983-24 CAD Drawing

4.3-10 Male to 4.3-10 Female Low PIM Cable 24 Inch Length Using TFT-5G-402 Coax with Times Microwave Components



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-D4-A320

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION		
	A	INITIAL RELEASE	KDANG	AGANWANI

PASTERNAK an INFINITB brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		
DESCRIPTION 4.3-10 MALE TO 4.3-10 FEMALE LOW PIM CABLE USING TFT-5G-402 COAX		
SIZE	CAGE CODE	ITEM NO.
A	53919	PE3W14983
DRAWN BY		REV
KDANG		A

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] ± .12 [3.05]
 > 12 [305] ≤ 60 [1524] ± .12 [3.05]
 > 60 [1524] ≤ 120 [3048] ± .12 [3.05]
 > 120 [3048] ± .30 [7.62]

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