

## 4.3-10 Male to 4.3-10 Female Low PIM Cable 200 CM Length Using TFT-5G-402 Coax with Times Microwave Components



### PE3W14983-200CM

#### 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 PE3W14983-200CM 4.3-10 male to 4.3-10 female 200 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 4.3-10 cable assembly has a male to female gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3W14983-200CM 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

4.3-10 Male to 4.3-10 Female Low PIM Cable 200 CM Length  
Using TFT-5G-402 Coax with Times Microwave Components



**PE3W14983-200CM**

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 78.7402 in [200 cm]  
 Width/Diameter .5 in [12.7 mm]  
 Weight 0.245 lbs [111.13 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]

4.3-10 Male to 4.3-10 Female Low PIM Cable 200 CM Length  
Using TFT-5G-402 Coax with Times Microwave Components



**PE3W14983-200CM**

**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:

4.3-10 Male to 4.3-10 Female Low PIM Cable 200 CM Length  
Using TFT-5G-402 Coax with Times Microwave Components



**PE3W14983-200CM**

**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 200 CM 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.

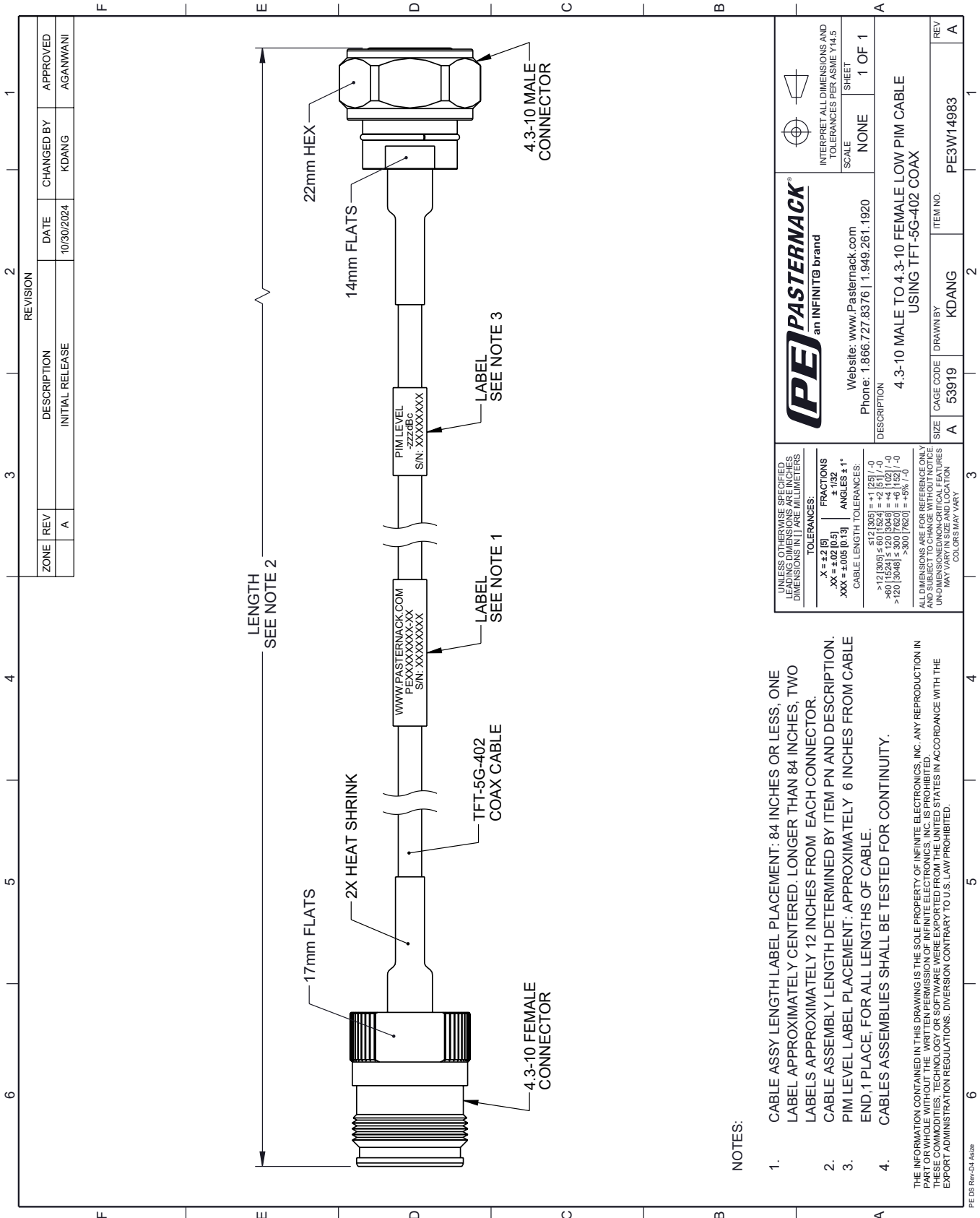
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male to 4.3-10 Female Low PIM Cable 200 CM Length Using TFT-5G-402 Coax with Times Microwave Components PE3W14983-200CM](#)

URL: <https://www.pasternack.com/4.3-10-male-to-4.3-10-female-low-pim-cable-200-cm-length-using-tft-5g-402-pe3w14983-200cm-p.aspx>

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE3W14983-200CM CAD Drawing

4.3-10 Male to 4.3-10 Female Low PIM Cable 200 CM Length Using TFT-5G-402 Coax with Times Microwave Components



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

 an INFINITB brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> 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: KDANG		

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 [1524] = ± 2 [51] / -0  
 > 12 [305] ± .60 [1524] = ± 4 [102] / -0  
 > 20 [508] ± .80 [2032] = ± 3 [762] / -0  
 > 30 [762] ± 1.0 [254] = ± 5 [127] / -0

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

NOTES:

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

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.