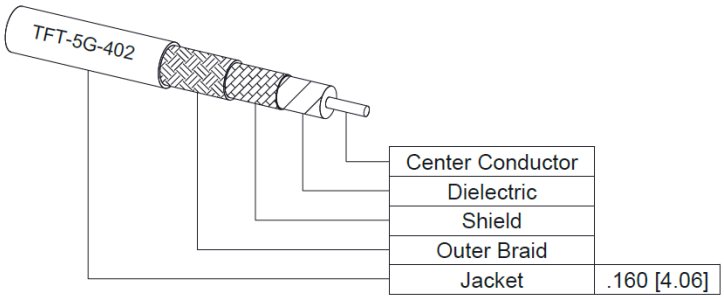
2.2-5 Male to 2.2-5 Female Bulkhead Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components



PE3C7981

Configuration

- Connector 1: 2.2-5 Male
- Connector 2: 2.2-5 Female Bulkhead
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible



Features

- Max Frequency 3 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket
- 100 Mating Cycles

Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

Description

Pasternack's PE3C7981 2.2-5 male to 2.2-5 female bulkhead 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 2.2-5 to 2.2-5 cable assembly has a male to female gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C7981 2.2-5 male to 2.2-5 female cable assembly operates to 3 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. Our RF cable assembly with 2.2-5 bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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		3	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	80			dB
Passive Intermodulation			-160	dBc

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PE3C7981

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.)	0.07	0.08	0.11	0.2	0.3	dB/ft
	0.23	0.26	0.36	0.66	0.98	dB/m

Electrical Specification Notes:
Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Width/Diameter	0.665 in [16.89 mm]

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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2.2-5 Male to 2.2-5 Female Bulkhead Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components



PE3C7981

Connectors

Description	Connector 1	Connector 2
Type	2.2-5 Male	2.2-5 Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	100	100
Contact Material and Plating	Beryllium Copper, Silver	Beryllium Copper, Silver
Contact Plating Specification	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Silver
Outer Conductor Plating Specification		100 µin
Body Material and Plating	Brass, Silver	Brass, Silver
Body Plating Specification	100 µin	100 µin
Coupling Nut Material and Plating	Brass, Tri-Metal	
Coupling Nut Plating Specification	100 µin	
Torque	26 in-lbs 2.94 Nm	26 in-lbs 2.94 Nm

Environmental Specifications

Operating Range Temperature	-40 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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2.2-5 Male to 2.2-5 Female Bulkhead Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components



PE3C7981

Typical Performance Data

How to Order

Part Number Configuration: **PE3C7981 - xx uu**

- **uu** — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- **xx** — Length
- **PE3C7981** — Base Number

Example: PE3C7981-12 = 12 inches long cable
PE3C7981-100cm = 100 cm long cable

2.2-5 Male to 2.2-5 Female Bulkhead Low PIM Cable 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: 2.2-5 Male to 2.2-5 Female Bulkhead Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components PE3C7981

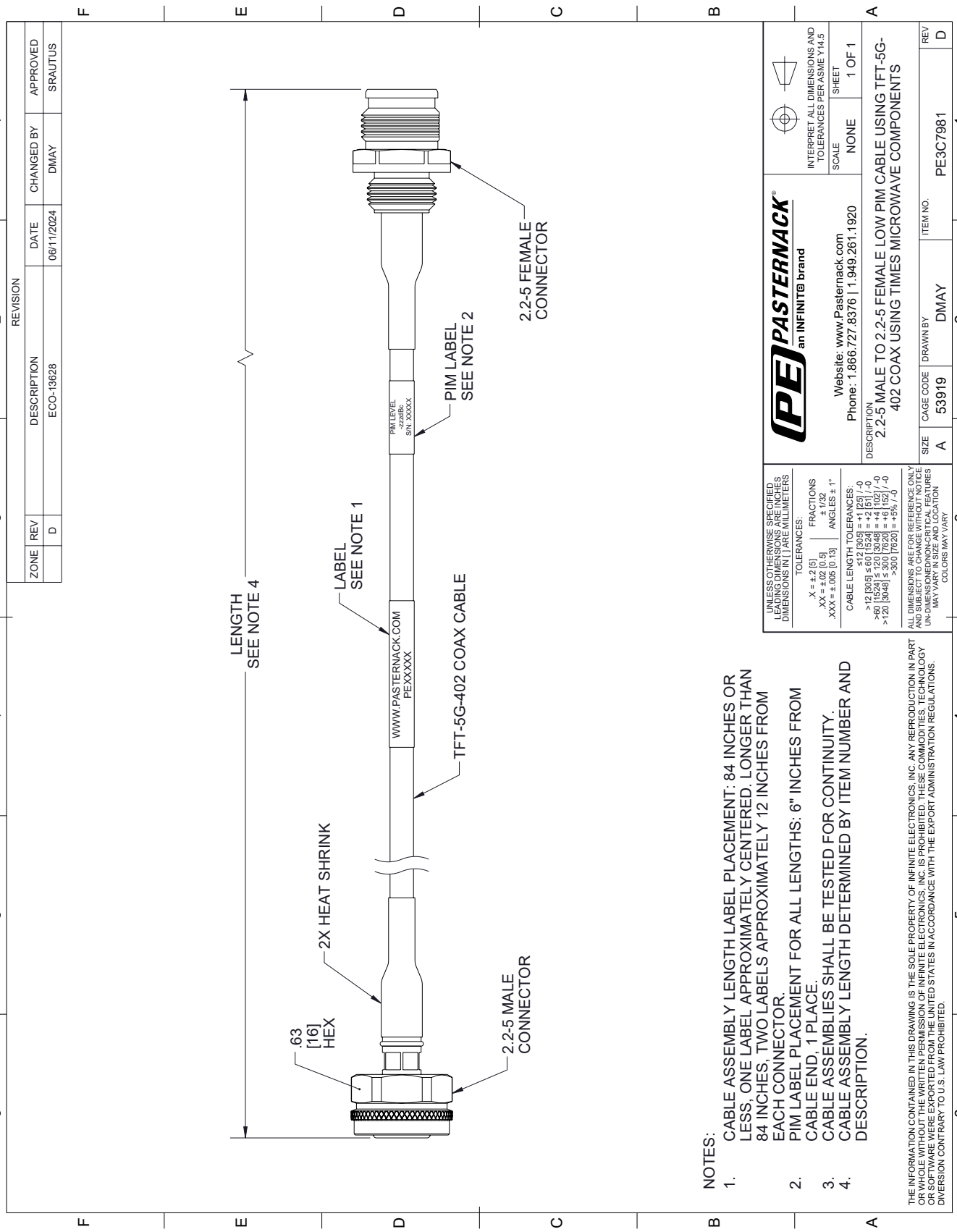
URL: https://www.pasternack.com/2.2-5-male-to-2.2-5-female-bulkhead-low-pim-cable-using-tft-5g-402-pe3c7981-p.aspx

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PE3C7981 CAD Drawing

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