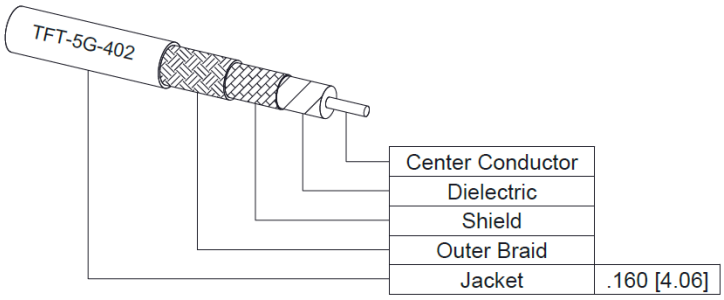
2.2-5 Male to 4.3-10 Male Low PIM Cable Using TFT-5G-402 Coax

PE3W13842

Configuration

- Connector 1: 2.2-5 Male
- Connector 2: 4.3-10 Male
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible



Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

Description

Pasternack's PE3W13842 2.2-5 male to 4.3-10 male 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 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3W13842 2.2-5 male to 4.3-10 male 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

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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 (Max.)	1.043887	1.081931	1.111241	1.188768	1.294993	dB/ft
	3.42	3.55	3.65	3.9	4.25	dB/m

Mechanical Specifications

Cable Assembly

Width/Diameter	0 in [0 mm]
Weight	0.06 lbs [27.22 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	2.2-5 Male	4.3-10 Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	100	500
Contact Material and Plating	Beryllium Copper, Silver	Brass, Silver
Contact Plating Specification	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Silver	Brass, Tri-Metal
Body Plating Specification	100 µin	80 µin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100 µin	80 µin
Torque	26 in-lbs 2.94 Nm	44 in-lbs 4.97 Nm

Environmental Specifications

Operating Range Temperature	-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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PE3W13842

Typical Performance Data

How to Order

Part Number Configuration: **PE3W13842 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W13842 — Base Number

Example: PE3W13842-12 = 12 inches long cable
PE3W13842-100cm = 100 cm long cable

2.2-5 Male to 4.3-10 Male Low PIM Cable Using TFT-5G-402 Coax 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 4.3-10 Male Low PIM Cable Using TFT-5G-402 Coax PE3W13842

URL: https://www.pasternack.com/2.2-5-male-to-4.3-10-male-low-pim-cable-using-tft-5g-402-pe3w13842-p.aspx

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