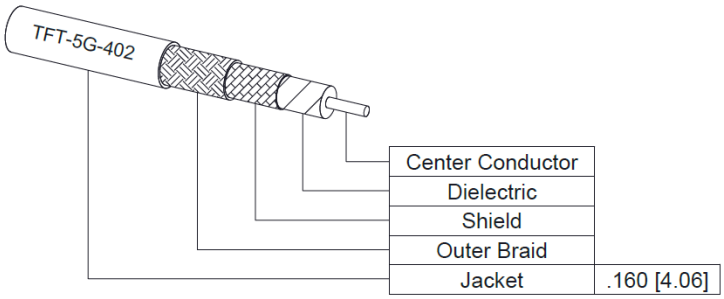
4.1/9.5 Mini DIN Male to 4.3-10 Female Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components

PE3C8278

Configuration

- Connector 1: 4.1/9.5 Mini DIN Male
- Connector 2: 4.3-10 Female
- 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

Applications

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

Description

Pasternack's PE3C8278 4.1/9.5 Mini DIN 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 4.1/9.5 Mini DIN to 4.3-10 cable assembly has a male to female gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C8278 4.1/9.5 Mini DIN male to 4.3-10 female cable assembly operates to 3 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		3	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

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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	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.035	0.057	0.083	0.117	0.207	dB/ft
	0.11	0.19	0.27	0.38	0.68	dB/m

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

Mechanical Specifications

Cable Assembly

Width/Diameter	0.866 in [22 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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Connectors

Description	Connector 1	Connector 2
Type	4.1/9.5 Mini DIN Male	4.3-10 Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Silver	Bronze, Silver
Contact Plating Specification	5 µm	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	2 µm	80 µin
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	5 µm	
Torque	106 in-lbs 11.98 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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PE3C8278

Typical Performance Data

How to Order

Part Number Configuration: **PE3C8278 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C8278 — Base Number

Example: PE3C8278-12 = 12 inches long cable
PE3C8278-100cm = 100 cm long cable

4.1/9.5 Mini DIN Male to 4.3-10 Female 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: 4.1/9.5 Mini DIN Male to 4.3-10 Female Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components PE3C8278

URL: https://www.pasternack.com/4.1-9.5-mini-din-male-to-4.3-10-female-low-pim-cable-using-tft-5g-402-pe3c8278-p.aspx

PE3C8278 CAD Drawing

4.1/9.5 Mini DIN Male to 4.3-10 Female Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components