



4.1/9.5 Mini DIN Female to Snap-On 4.3-10 Male  
Low PIM Cable 36 Inch Length Using TFT-402 Coax Using  
Times Microwave Components

RF Cable Assemblies Technical Data Sheet

PE3C8222-36

### Configuration

- Connector 1: 4.1/9.5 Mini DIN Female
- Connector 2: Snap-On 4.3-10 Male
- Cable Type: TFT-402

### Features

- Max Frequency 5.8 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
- Indoor and Outdoor Use
- Plenum Rated Applications

### Description

Pasternack's PE3C8222-36 4.1/9.5 Mini DIN female to 4.3-10 male snap-on 36 inch cable using TFT-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 female to male gender configuration with 50 ohm flexible TFT-402 coax. The PE3C8222-36 4.1/9.5 Mini DIN female 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.

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 Female to Snap-On 4.3-10 Male Low PIM Cable 36 Inch Length Using TFT-402 Coax Using Times Microwave Components PE3C8222-36](#)



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**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
Capacitance		26.7 [87.6]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.5 [27.89]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		5.6 [18.37]		$\Omega$ /1000ft [ $\Omega$ /Km]

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.26	0.37	0.53	0.84	1.29	dB

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Length\* 36 in [914.4 mm]  
 Diameter 0.996 in [25.3 mm]

**Cable**

Cable Type TFT-402  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 2  
 Shield Layer 1 Silver Plated Copper Braid  
 Shield Layer 2 Tinned Copper Braid  
 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 Female	4.3-10 Male
Impedance	50 Ohms	50 Ohms
Connection Method		Snap-On
Mating Cycles	500	500
Contact Material and Plating	Phosphor Bronze, Silver	Brass, 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**

**Temperature**

Operating Range -55 to +85 deg C

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

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**How to Order**

Part Number Configuration:

**PE3C8222**

- **xx**

**uu**

Unit of Measure:  
 cm = Centimeters  
 <blank> = Inches  
 Length  
 Base Number

Example: PE3C8222-12 = 12 inches long cable  
 PE3C8222-100cm = 100 cm long cable

4.1/9.5 Mini DIN Female to Snap-On 4.3-10 Male Low PIM Cable 36 Inch Length Using TFT-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 Female to Snap-On 4.3-10 Male Low PIM Cable 36 Inch Length Using TFT-402 Coax Using Times Microwave Components PE3C8222-36](https://www.pasternack.com/4.1-9.5-female-4.3-10-male-tft-402-cable-assembly-pe3c8222-36-p.aspx)

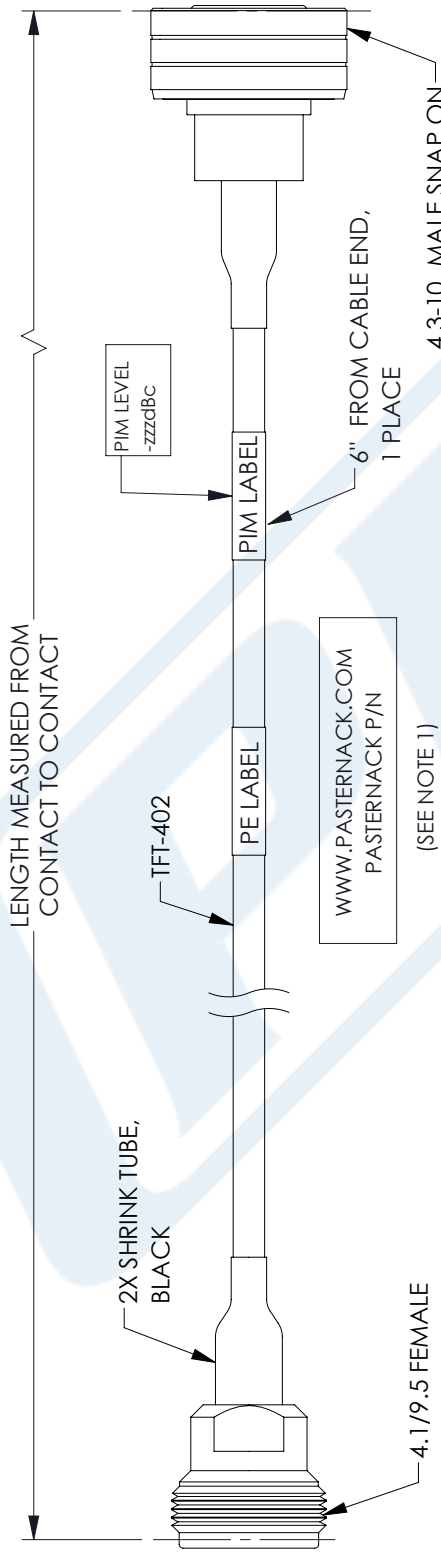
URL: <https://www.pasternack.com/4.1-9.5-female-4.3-10-male-tft-402-cable-assembly-pe3c8222-36-p.aspx>

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# PE3C8222-36 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/04/2021	AGANWANI



**UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS**

**TOLERANCES:**

.X = ±.2	[5.08]	FRACTIONS
.XX = ±.02	[.51]	± 1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

**CABLE LENGTH (L) TOLERANCES:**

L ≤ 12 [305]	± .125 / -0
12 [305] < L ≤ 60 [1524]	± .25 / -0
60 [1524] < L ≤ 120 [3048]	± .50 / -0
120 [3048] < L ≤ 300 [7620]	± 1.00 / -0
300 [7620] < L	± 5% L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**THIRD-ANGLE PROJECTION**

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SHEET 1 OF 1

SCALE N/A

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	MVEERAPPAN	PE3C8222
REV			A

- NOTES:**
- CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12.0" FROM THE FRONT OF THE CONNECTOR.

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