

## 3.5mm Female to TNC Female Bulkhead Cable Using PE-SR402FL Coax

### PE3C10083



#### Configuration

- Connector 1: 3.5mm Female
- Connector 2: TNC Female Bulkhead
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C10083 3.5mm female to TNC female bulkhead cable using PE-SR402FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack 3.5mm to TNC cable assembly has a female to female gender configuration with 50 ohm formable PE-SR402FL coax. The PE3C10083 3.5mm female to TNC female cable assembly operates to 6 GHz. Our RF cable assembly with TNC 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.

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		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ohms/1000ft [Ohms/Km]

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	6000	MHz	
PE3C10083	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.183	0.322	dB/ft	
			0.27	0.4	0.61	1.06	dB/m	
PE3C10083-6	6 Inch	Insertion Loss (Typ.)	0.24	0.26	0.3	0.37	dB	0.061
PE3C10083-9	9 Inch	Insertion Loss (Typ.)	0.26	0.29	0.34	0.45	dB	0.067
PE3C10083-12	12 Inch	Insertion Loss (Typ.)	0.28	0.32	0.39	0.53	dB	0.073
PE3C10083-18	18 Inch	Insertion Loss (Typ.)	0.32	0.38	0.48	0.69	dB	0.086
PE3C10083-24	24 Inch	Insertion Loss (Typ.)	0.36	0.44	0.57	0.85	dB	0.099

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:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.073 pounds
Additional Weight per Inch:	0.00209 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.073 lbs [33.11 g]

#### Cable

Cable Type	PE-SR402FL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Tinned Copper Braid
Repeated Minimum Bend Radius	0.625 in [15.88 mm]

### Connectors

Description	Connector 1	Connector 2
Type	3.5mm Female	TNC Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	
Dielectric Type	PCTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Brass, Nickel
Body Plating Specification	SAE-AMS-2700	

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#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C10083 - xx uu**

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

Example: PE3C10083-12 = 12 inches long cable  
PE3C10083-100cm = 100 cm long cable

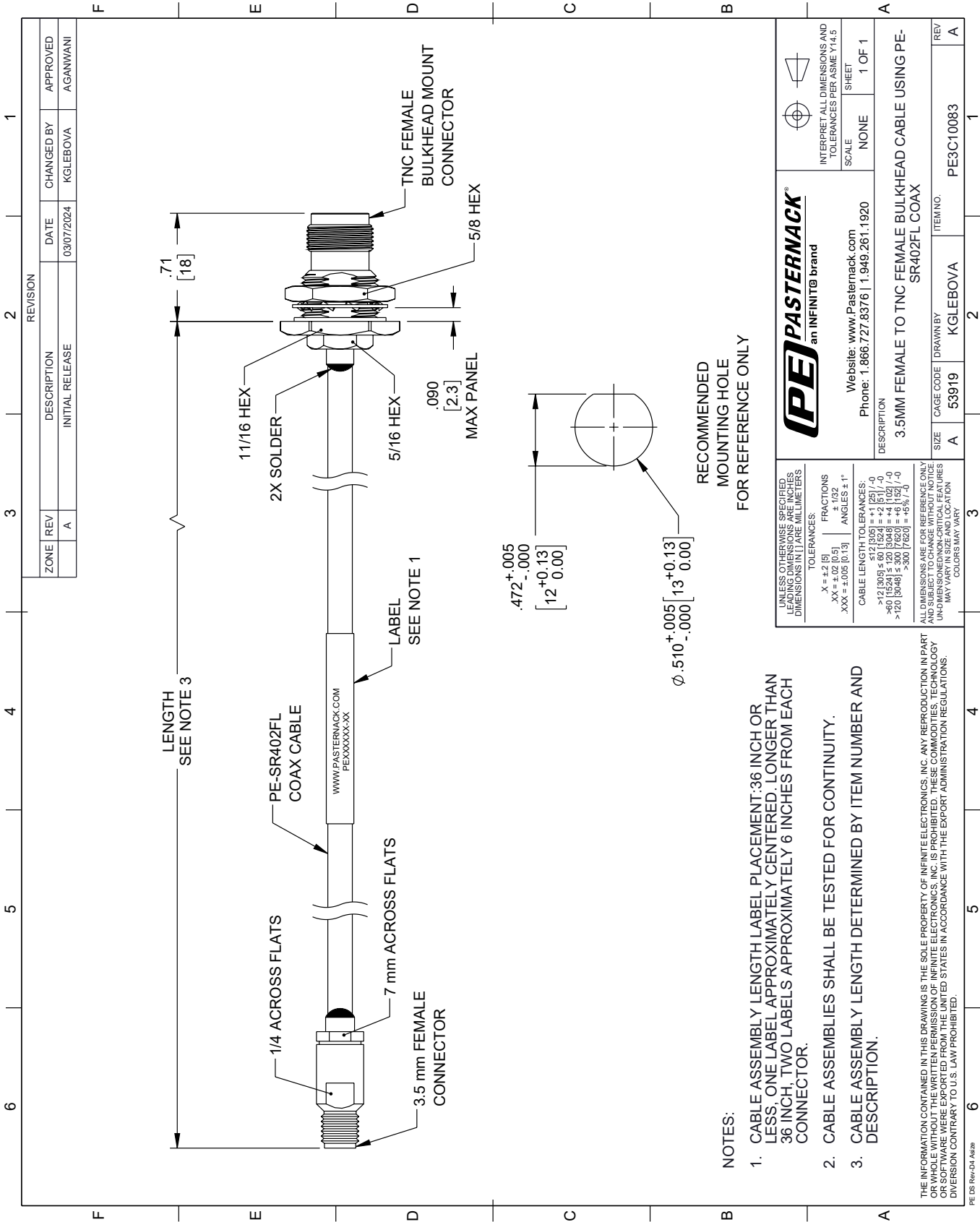
3.5mm Female to TNC Female Bulkhead Cable Using PE-SR402FL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Female to TNC Female Bulkhead Cable Using PE-SR402FL Coax PE3C10083](#)

URL: <https://www.pasternack.com/3.5mm-female-to-tnc-female-bulkhead-cable-using-pe-sr402fl-pe3c10083-p.aspx>

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PE3C10083 CAD Drawing
3.5mm Female to TNC Female Bulkhead Cable Using PE-SR402FL Coax



NOTES:

- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- 2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AND DESCRIPTION.

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