



## SMA Male to TNC Female Bulkhead Cable Using PE-SR402FL Coax

### TECHNICAL DATA SHEET

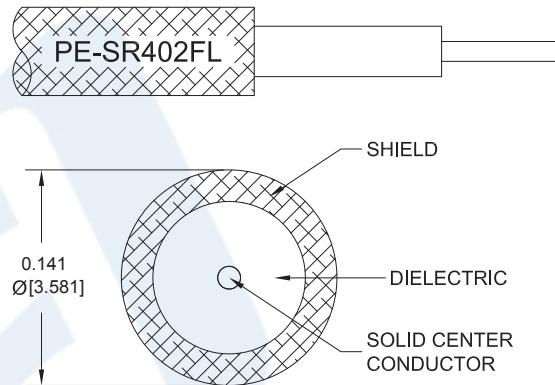
**PE3C3847**

#### Configuration

- Connector 1: SMA Male
- Connector 2: TNC Female Bulkhead
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

#### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C3847 SMA male 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 SMA to TNC cable assembly has a male to female gender configuration with 50 ohm formable PE-SR402FL coax. The PE3C3847 SMA male to TNC female cable assembly operates to 18 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Female Bulkhead Cable Using PE-SR402FL Coax PE3C3847](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ω/1000ft [Ω/Km]

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	#####	MHz	
PE3C3847	Custom Lengths Available	Insertion Loss (Typ.)	0.12	0.16	0.26	0.41	0.65	dB/ft	
			0.4	0.53	0.86	1.35	2.14	dB/m	
PE3C3847-6	6 inch	Insertion Loss (Typ.)	0.26	0.28	0.33	0.41	0.53	dB	0.068
PE3C3847-9	9 inch	Insertion Loss (Typ.)	0.29	0.32	0.4	0.51	0.69	dB	0.074
PE3C3847-12	12 inch	Insertion Loss (Typ.)	0.32	0.36	0.46	0.61	0.85	dB	0.08
PE3C3847-18	18 inch	Insertion Loss (Typ.)	0.38	0.44	0.59	0.82	1.18	dB	0.093
PE3C3847-24	24 inch	Insertion Loss (Typ.)	0.44	0.52	0.72	1.02	1.5	dB	0.106

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: 0.08 pounds

Additional Weight per Inch: 0.00209 pounds

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight

0.08 lbs [36.29 g]

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**Cable**

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

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male Threaded	TNC Female Bulkhead Threaded
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating		Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type		PTFE
Body Material and Plating	Brass, Gold over Nickel	Passivated Stainless Steel
Body Plating Specification		QQ-P-35
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	

**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

Notes:

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**PE3C3847**

#### How to Order

Part Number Configuration:

**PE3C3847**

- **xx**

**uu**

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

Example: PE3C3847-12 = 12 inches long cable  
PE3C3847-100cm = 100 cm long cable

SMA Male 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: [SMA Male to TNC Female Bulkhead Cable Using PE-SR402FL Coax PE3C3847](#)

URL: <https://www.pasternack.com/sma-male-tnc-female-pe-sr402fl-cable-assembly-pe3c3847-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE3C3847 CAD Drawing

SMA Male to TNC Female Bulkhead Cable Using PE-SR402FL Coax

