



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

TECHNICAL DATA SHEET

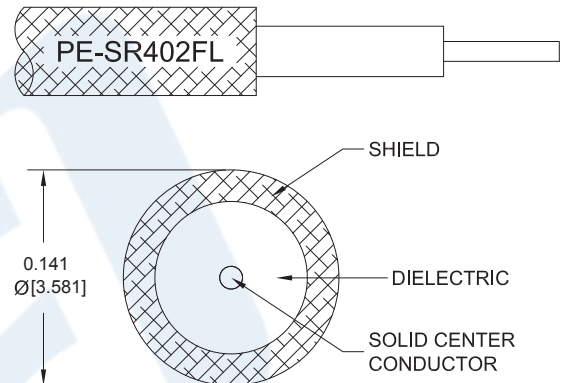
PE3C3847

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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How to Order

Part Number Configuration:

PE3C3847

- **xx**

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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.

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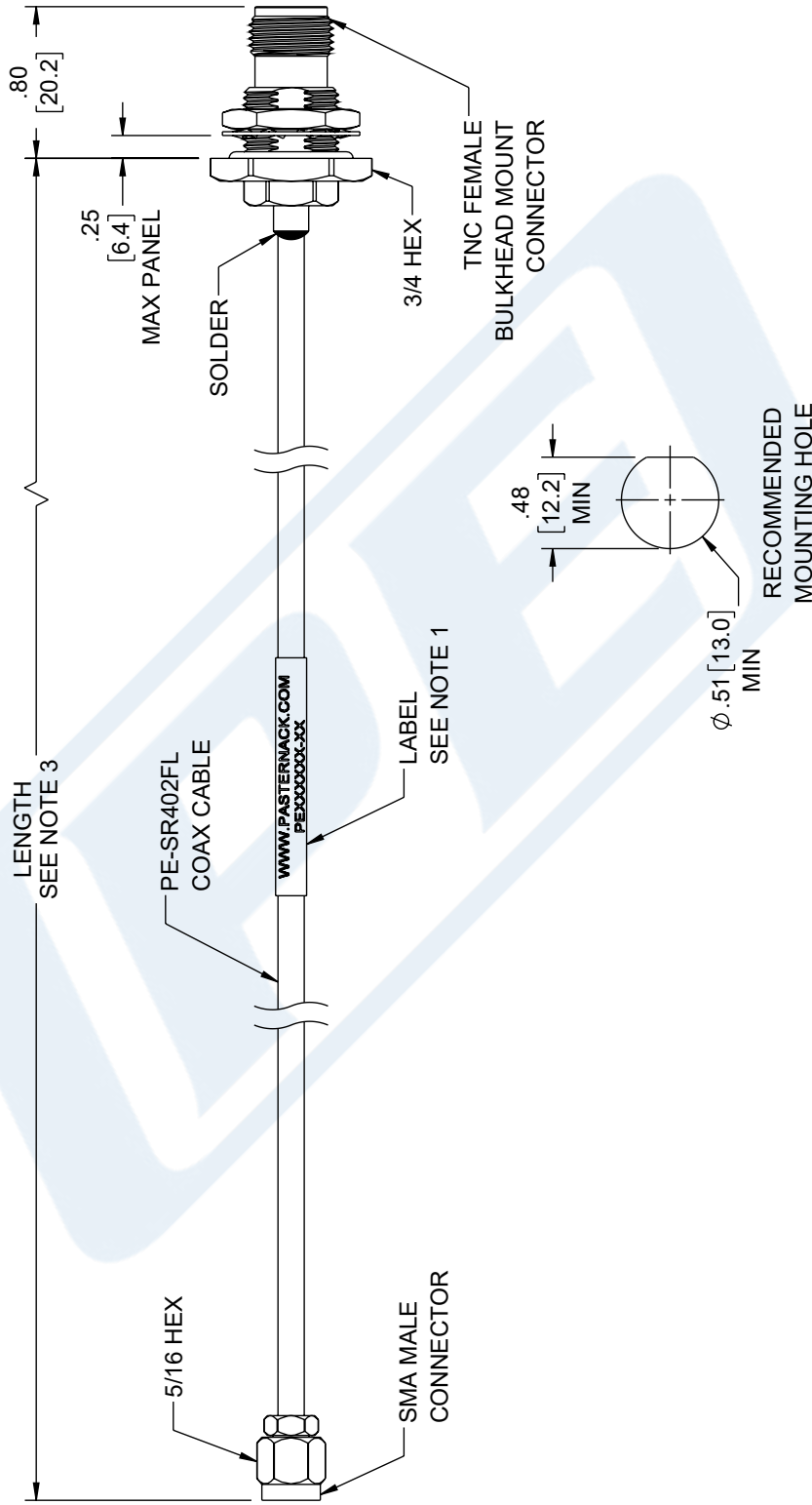
URL: <https://www.pasternack.com/sma-male-tnc-female-pe-sr402fl-cable-assembly-pe3c3847-p.aspx>

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PE3C3847 CAD Drawing

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

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	10/17/2023	HBAKKE	AGANWANI



NOTES:

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

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PASTERNAK an INFINIT@ brand		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE	NONE
DESCRIPTION		SHEET	1 OF 1
SMA MALE TO TNC FEMALE BULKHEAD CABLE USING PE-SR402FL COAX			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	PE3C3847
		REV	A