

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



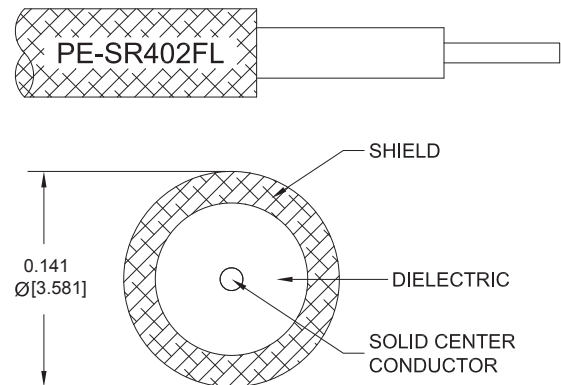
### PE39427/HS

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA 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 PE39427/HS SMA male to SMA 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 SMA cable assembly has a male to female gender configuration with 50 ohm formable PE-SR402FL coax. The PE39427/HS SMA male to SMA female cable assembly operates to 18 GHz. Our RF cable assembly with SMA 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		18	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	F5	Units	Weight (lbs)
			Frequency	1000	2000	4500	9000	18000	
PE39427/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.12	0.163	0.269	0.418	0.65	dB/ft	
			0.4	0.54	0.89	1.38	2.14	dB/m	
PE39427/HS-6	6 In	Insertion Loss (Typ.)	0.26	0.29	0.34	0.41	0.53	dB	0.025
PE39427/HS-9	9 In	Insertion Loss (Typ.)	0.29	0.33	0.41	0.52	0.69	dB	0.031
PE39427/HS-12	12 In	Insertion Loss (Typ.)	0.32	0.37	0.47	0.62	0.85	dB	0.037
PE39427/HS-18	18 In	Insertion Loss (Typ.)	0.38	0.45	0.61	0.83	1.18	dB	0.05
PE39427/HS-24	24 In	Insertion Loss (Typ.)	0.44	0.53	0.74	1.04	1.5	dB	0.063

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:	0.037 pounds
Additional Weight per Inch:	0.00209 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.012 lbs [5.44 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	SMA Male	SMA Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating		Beryllium Copper, Gold over Nickel
Dielectric Type		PTFE
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

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### PE39427/HS

#### Environmental Specifications

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

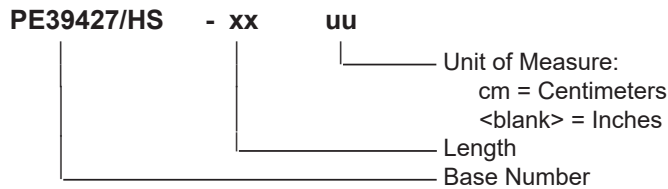
#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE39427/HS-12 = 12 inches long cable  
PE39427/HS-100cm = 100 cm long cable

SMA Male to SMA Female Bulkhead Cable Using PE-SR402FL Coax with HeatShrink 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.

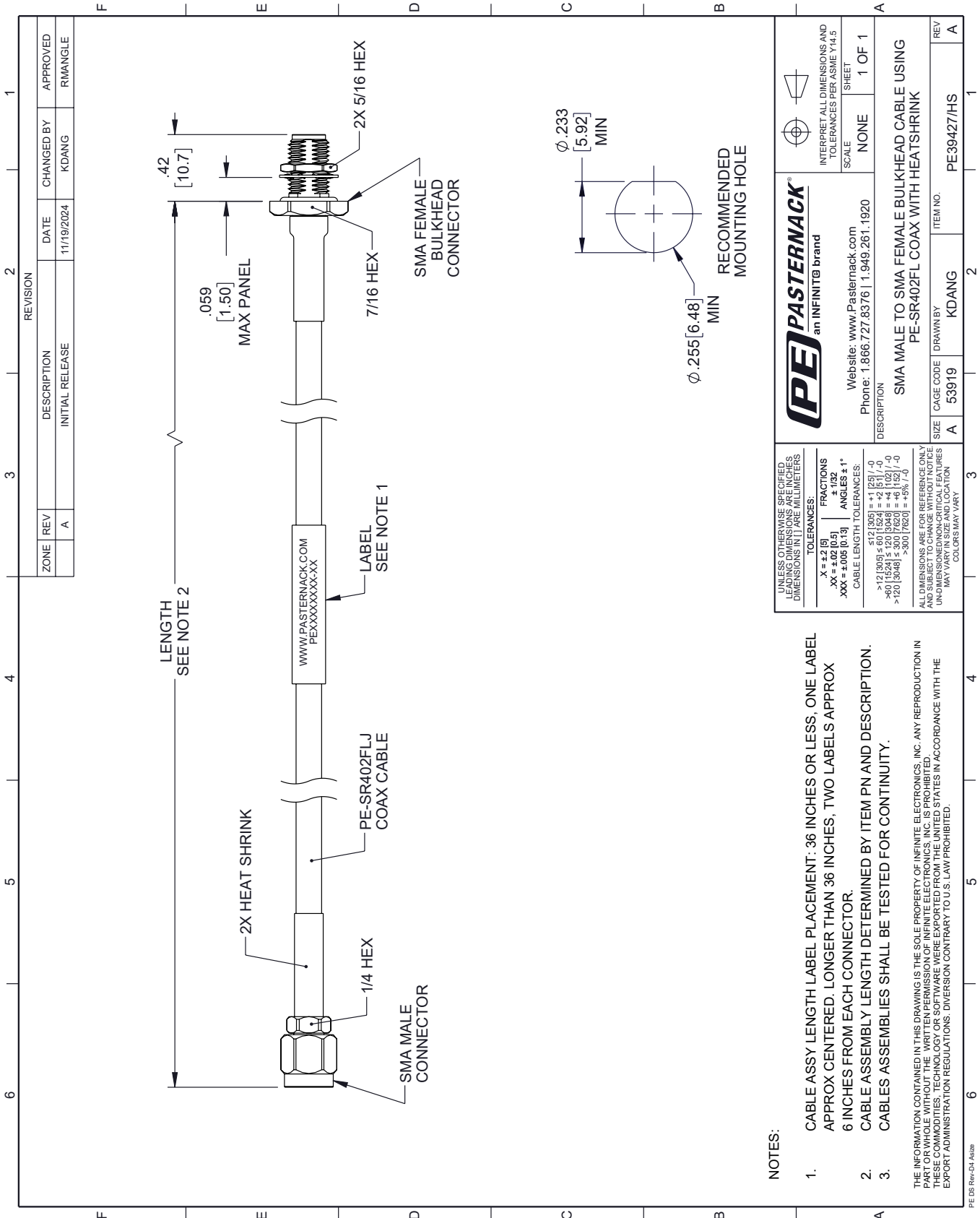
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Female Bulkhead Cable Using PE-SR402FL Coax with HeatShrink PE39427/HS](#)

URL: <https://www.pasternack.com/sma-male-to-sma-female-bulkhead-cable-using-pe-sr402fl-with-heatshrink-pe39427-hs-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE39427/HS CAD Drawing

SMA Male to SMA Female Bulkhead Cable Using PE-SR402FL Coax with HeatShrink



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		INITIAL RELEASE	11/19/2024	KDANG	RMANGLE

**PE PASTERNAK**  
an INFINITE brand

Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

DESCRIPTION: SMA MALE TO SMA FEMALE BULKHEAD CABLE USING PE-SR402FL COAX WITH HEATSHRINK

ITEM NO.: PE39427/HS

CAGE CODE: 53919 DRAWN BY: KDANG

SIZE: A

- NOTES:**
- CABLE ASSY LENGTH LABEL PLACEMENT: .36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN .36 INCHES, TWO LABELS APPROX .6 INCHES FROM EACH CONNECTOR.
  - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS
- TOLERANCES:  
 .X = ±.2 [5] FRACTIONS ± 1/32  
 .XX = ±.02 [0.5] ANGLES ± 1°  
 .XXX = ±.005 [0.13] CABLE LENGTH TOLERANCES:  
 <12 [305] ±.60 [1524] = +2 [51] / -0  
 >12 [305] ±.60 [1524] = +2 [51] / -0  
 >40 [1024] ±.120 [3048] = +4 [102] / -0  
 >120 [3048] ±.300 [7620] = +5% [762]
- ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.
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- PE DS Rev-D4-A326