



## SMA Male to SMA Female Bulkhead Semi-Flexible Precision Cable Using PE-SR402FLJ Coax, RoHS

### TECHNICAL DATA SHEET

PE39441

Pasternack's formable cable assemblies are hand formable semi-rigid replacements that are an alternative to costly preformed assemblies. The formable semi-rigid cable alternatives are dimensionally and electrically similar to their semi-rigid counterpart and have a tinned-copper-braid outer shield that provides excellent RF shielding. The hand formable cable assemblies from Pasternack do not require special tooling to shape or reshape the assemblies and can replace standard semi-rigid versions. The assemblies are available with or without a FEP jacket and are RoHS compliant,

#### Features

- Dimensionally and electrically the same as standard, solid outer conductor semi-rigid coax
- Cable may be formed by hand and does not require special tools to bend
- May be formed more than once without damaging the outer conductor
- High RF Shielding >100 dB
- 100% Hi-pot and continuity tested
- 100% VSWR tested to max frequency of assembly
- Standard and custom lengths ship the same day

#### Configuration

Connector 1  
Connector 2  
Cable Type

SMA Male  
SMA Female Bulkhead  
PE-SR402FLJ

#### Electrical Specifications

Frequency Range	DC to 18 GHz
Impedance	50 Ohms
Velocity of Propagation	70 %
Group Delay	1.43 ns/ft [4.69 ns/m]
RF Shielding	100 dB

#### Performance by Frequency

##### Frequency 1

Frequency	1000 MHz
Insertion Loss	0.319 dB/ft [1.05 dB/m]

##### Frequency 2

Frequency	2 GHz
Insertion Loss	0.359 dB/ft [1.18 dB/m]

##### Frequency 3

Frequency	4.5 GHz
Insertion Loss	0.46 dB/ft [1.51 dB/m]

##### Frequency 4

Frequency	9 GHz
Insertion Loss	0.593 dB/ft [1.95 dB/m]

##### Frequency 5

Frequency	18 GHz
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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 Semi-Flexible Precision Cable Using PE-SR402FLJ Coax, RoHS PE39441](#)



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Insertion Loss

0.796 dB/ft [2.61 dB/m]

**Mechanical Specifications**

**Size**

Diameter

0.433 in [11 mm]

Cable Color

Black

One Time Minimum Bend Radius

0.315 in [8 mm]

Repeated Minimum Bend Radius

1.575 in [40.01 mm]

**Cable**

Cable Type

PE-SR402FLJ

Inner Conductor Type

Solid

Cable Inner Conductor

Copper Clad Steel, Silver

No of Shields

1

Dielectric Type

PTFE

Jacket Material

FEP

Jacket Diameter

0.161 in [4.09 mm]

**Connector 1**

Type

SMA Male

Configuration

Straight

Coupling Nut Material and Plating

Passivated Stainless Steel

Hex Size

5/16 in.

Torque

8 in-lbs [0.9 Nm]

Body Material and Plating

Brass, Gold

**Connector 2**

Type

SMA Female Bulkhead

Configuration

Straight

Mount Method

Bulkhead

Inner Conductor Material and Plating

Beryllium Copper, Gold

Body Material and Plating

Brass, Gold

Dielectric Type

PTFE

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

Yes

REACH Compliant

12/15/2010

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level

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**How to Order**

Part Number Configuration:

**PE39441**

- xx

uu

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

Example: PE39441-12 = 12 inches long cable  
PE39441-100cm = 100 cm long cable

SMA Male to SMA Female Bulkhead Semi-Flexible Precision Cable Using PE-SR402FLJ Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

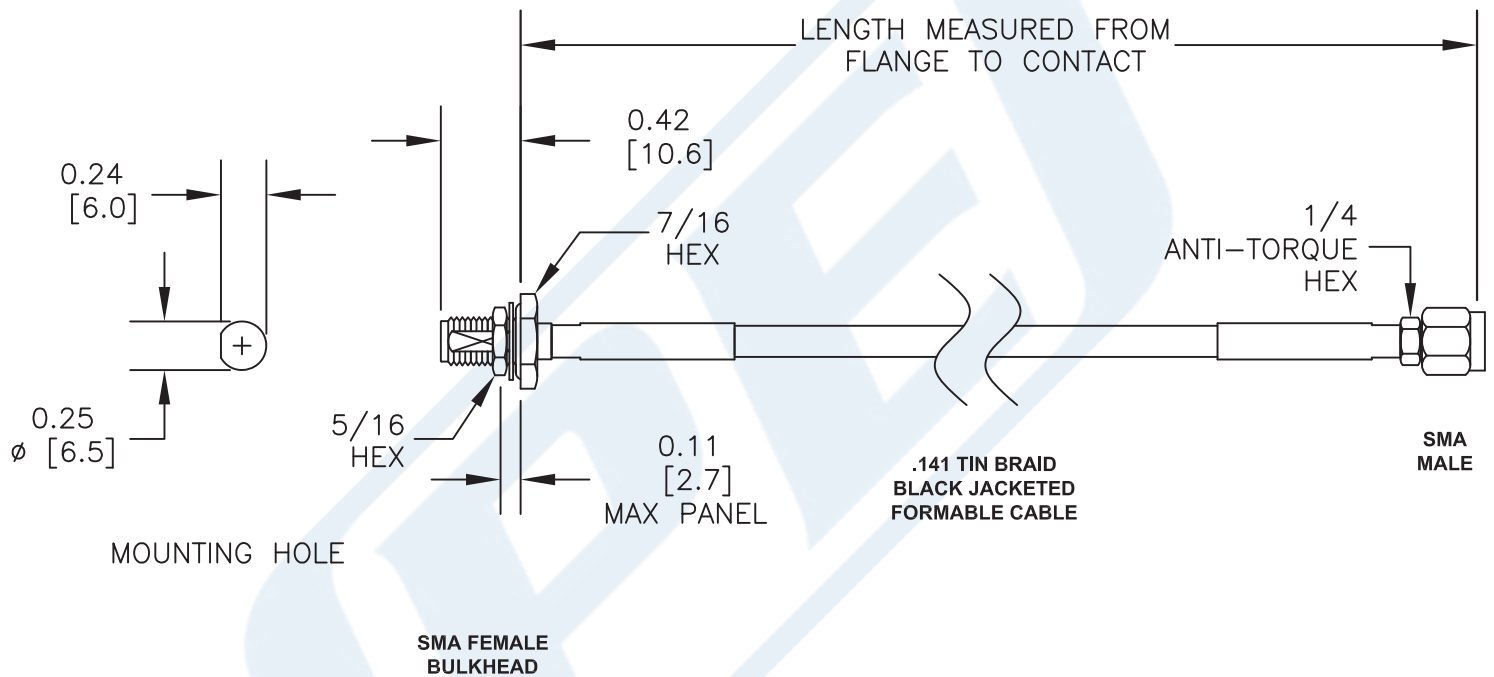
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

# PE39441 CAD Drawing

SMA Male to SMA Female Bulkhead Semi-Flexible Precision  
Cable Using PE-SR402FLJ Coax, RoHS



Note: This part is lead free.



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#### NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE

**PE39441**

FSCM NO. 53919

CAD FILE

012115

SCALE N/A

SIZE A

2233