



## SMA Male to SMA Male Semi-Flexible Precision Cable 18 Inch Length Using PE-SR402FLJ Coax, RoHS

### RF Cable Assemblies Technical Data Sheet

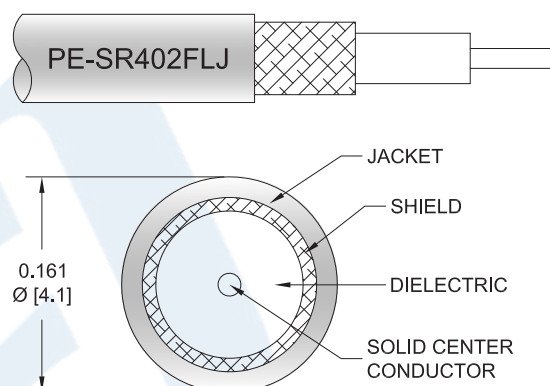
PE39437-18

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-SR402FLJ

#### 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



#### Description

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,

#### Electrical Specifications

| Description             | Minimum | Typical     | Maximum | Units        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 18      | GHz          |
| Velocity of Propagation |         | 70          |         | %            |
| RF Shielding            | 100     |             |         | dB           |
| Group Delay             |         | 1.43 [4.69] |         | ns/ft [ns/m] |
| Capacitance             |         | 29 [95.14]  |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 1    | 2    | 4.5  | 9    | 18   | GHz   |
| Insertion Loss (Max.) | 0.38 | 0.44 | 0.59 | 0.79 | 1.09 | dB    |

Electrical Specification Notes:

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 Male Semi-Flexible Precision Cable 18 Inch Length Using PE-SR402FLJ Coax, RoHS PE39437-18](#)



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VRMS Specifications are typical at sea level and at 25° C

**Mechanical Specifications**

**Cable Assembly**

|                              |                     |
|------------------------------|---------------------|
| Length                       | 18 in [457.2 mm]    |
| Diameter                     | 0.315 in [8 mm]     |
| 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               |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Solid                     |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Number of Shields                    | 1                         |
| Shield Layer 1                       | Tinned Copper Braid       |
| Jacket Material                      | FEP, Black                |
| Jacket Diameter                      | 0.161 in [4.09 mm]        |

**Connectors**

| Description                       | Connector 1                | Connector 2                |
|-----------------------------------|----------------------------|----------------------------|
| Type                              | SMA Male                   | SMA Male                   |
| Impedance                         | 50 Ohms                    | 50 Ohms                    |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Hex Size                          | 5/16 in.                   | 5/16 in.                   |
| Torque                            | 8 in-lbs [0.9 Nm]          | 8 in-lbs [0.9 Nm]          |
| Body Material and Plating         | Brass, Gold                | Brass, Gold                |

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

|                 |            |
|-----------------|------------|
| RoHS Compliant  | Yes        |
| REACH Compliant | 06/18/2012 |

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

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 Male Semi-Flexible Precision Cable 18 Inch Length Using PE-SR402FLJ Coax, RoHS PE39437-18](#)



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PE39437-18

**How to Order**

Part Number Configuration:

**PE39437**

- **xx**

**uu**

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

Example: PE39437-12 = 12 inches long cable  
PE39437-100cm = 100 cm long cable

SMA Male to SMA Male Semi-Flexible Precision Cable 18 Inch Length 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.

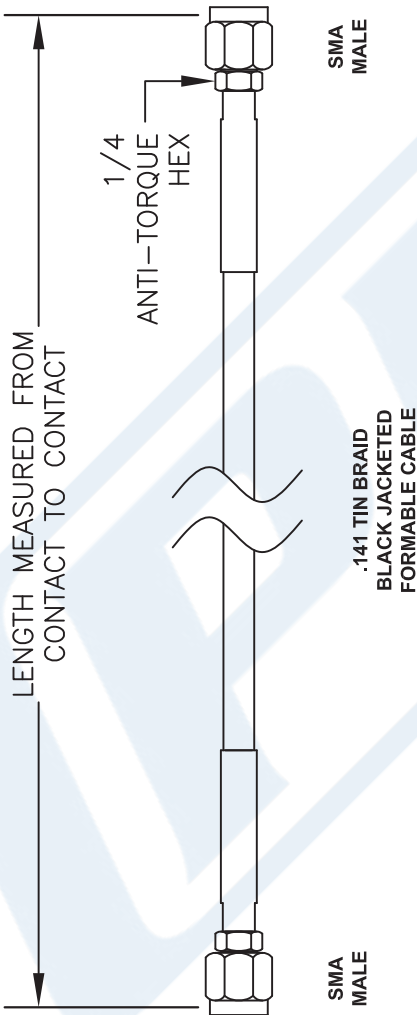
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE39437-18 CAD Drawing

SMA Male to SMA Male Semi-Flexible Precision Cable  
18 Inch Length Using PE-SR402FLJ Coax, RoHS



Note: This part is lead free.

| How To Order                       |                    |                |                       |
|------------------------------------|--------------------|----------------|-----------------------|
| Part Number Configuration          |                    | Examples       |                       |
| PE3                                | zzz yy - xx uu     | PE3000LF-100   |                       |
| 00 - 99999                         | LF = Lead Free     | PE3000-100     |                       |
| < Blank > = Standard               | CM = Centimeters   | PE3000LF-100CM |                       |
| Note: LF applies only to RF cables | < Blank > = Inches | PE3000-100CM   |                       |
|                                    | Length             |                |                       |
| Part # Ext.                        | Length In Inches   | Part # Ext.    | Length In Centimeters |
| -12                                | 12"                | -25CM          | 25Cm                  |
| -24                                | 24"                | -50CM          | 50Cm                  |
| -36                                | 36"                | -75CM          | 75Cm                  |
| -48                                | 48"                | -100CM         | 100Cm                 |
| -60                                | 60"                | -125CM         | 125Cm                 |
| -xx                                | Custom Length      | -xxCM          | Custom Length         |

**PASTERNAK®**  
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DWG TITLE  
**PE39437**

- 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.

REV. - FSCM NO. 53919 CAD FILE 041912 SCALE N/A SIZE A 2231