



SMA Male to SMA Male Right Angle Semi-Flexible Cable
24 Inch Length Using PE-SR405FL Coax, LF Solder, RoHS

RF Cable Assemblies Technical Data Sheet

PE39417-24

Configuration

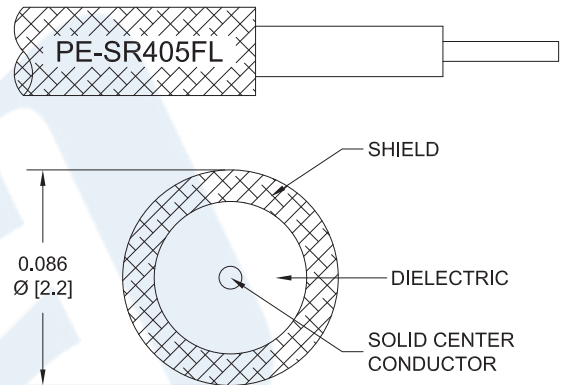
- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR405FL

Features

- Anti-Torque SMA Connector
- 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

Applications

- General Purpose
- Laboratory Use



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 | | 10 | GHz |
| VSWR | | | 1.35:1 | |
| Velocity of Propagation | | 69.5 | | % |
| RF Shielding | 100 | | | dB |
| Capacitance | | 29 [95.14] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 335 | Vrms |

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 Right Angle Semi-Flexible Cable 24 Inch Length Using PE-SR405FL Coax, LF Solder, RoHS PE39417-24](#)



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Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-----|------|-----|-----|------|-------|
| Frequency | 0.5 | 1 | 2.5 | 5 | 10 | GHz |
| Insertion Loss (Max.) | 0.7 | 0.86 | 1.1 | 1.5 | 2.02 | dB |

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as $0.05 \times \sqrt{f(\text{GHz})}$ dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|---------|---------------------|
| Length* | 24 in [609.6 mm] |
| Weight | 0.047 lbs [21.32 g] |

Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | PE-SR405FL |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Outer Conductor Material and Plating | Tinned Copper Braid |
| Outer Conductor Diameter | 0.086 in [2.18 mm] |
| Repeated Minimum Bend Radius | 0.37 in [9.4 mm] |

Connectors

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

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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 Right Angle Semi-Flexible Cable 24 Inch Length Using PE-SR405FL Coax, LF Solder, RoHS PE39417-24](#)



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Environmental Specifications

Temperature

Operating Range

-65 to +125 deg C

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

PE39417 - xx uu

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

Example: PE39417-12 = 12 inches long cable
PE39417-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Semi-Flexible Cable 24 Inch Length Using PE-SR405FL Coax, LF Solder, 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.

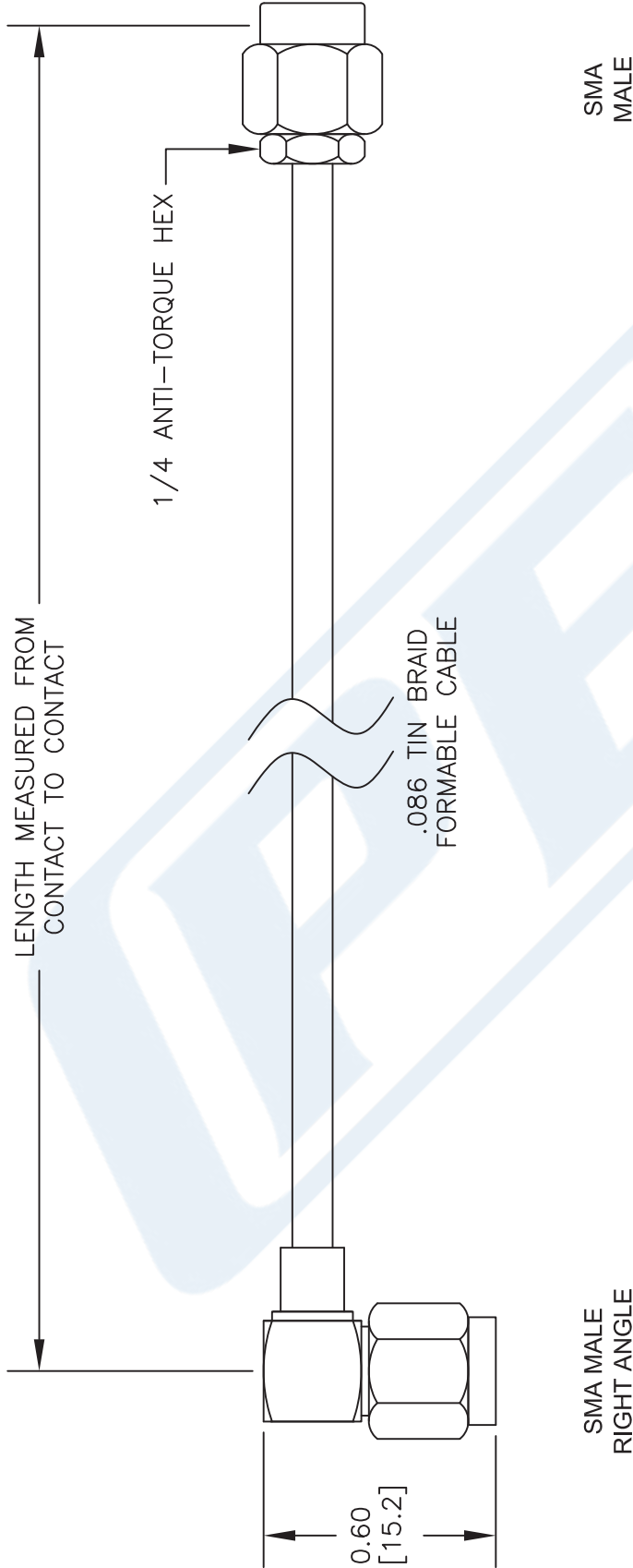
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URL: <https://www.pasternack.com/sma-male-sma-male-pe-sr405fl-cable-assembly-pe39417-24-p.aspx>

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.

PE39417-24 CAD Drawing

SMA Male to SMA Male Right Angle Semi-Flexible Cable 24 Inch Length Using PE-SR405FL Coax, LF Solder, RoHS



| STANDARD TOLERANCES | |
|---------------------|-------|
| .X | ±0.2 |
| .XX | ±0.1 |
| .XXX | ±0.05 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].

| | |
|----------------|-----------------|
| DWG TITLE | |
| PE39417 | |
| FSCM NO. 53919 | CAD FILE 110916 |
| SCALE N/A | SIZE A |
| 41742 | |

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