



## SMA Male to SMA Male Semi-Flexible Cable 18 Inch Length Using PE-SR405FL Coax, LF Solder, RoHS

### RF Cable Assemblies Technical Data Sheet

PE39415-18

#### Configuration

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

#### Features

- Anti-Torque SMA Connectors
- 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

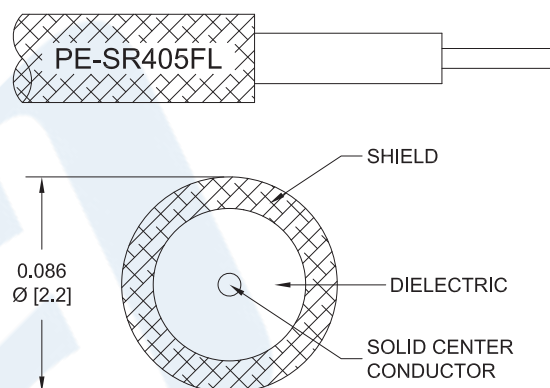
- General Purpose
- Laboratory Use

#### 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		18	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 Semi-Flexible Cable 18 Inch Length Using PE-SR405FL Coax, LF Solder, RoHS PE39415-18](#)



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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	5	10	18		GHz
Insertion Loss (Typ.)	0.338	0.824	1.218	1.77		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*	18 in [457.2 mm]
Weight	0.036 lbs [16.33 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
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.

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## SMA Male to SMA Male Semi-Flexible Cable 18 Inch Length Using PE-SR405FL Coax, LF Solder, RoHS

### RF Cable Assemblies Technical Data Sheet

PE39415-18

#### 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:

PE39415

- xx

uu

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

Example: PE39415-12 = 12 inches long cable  
PE39415-100cm = 100 cm long cable

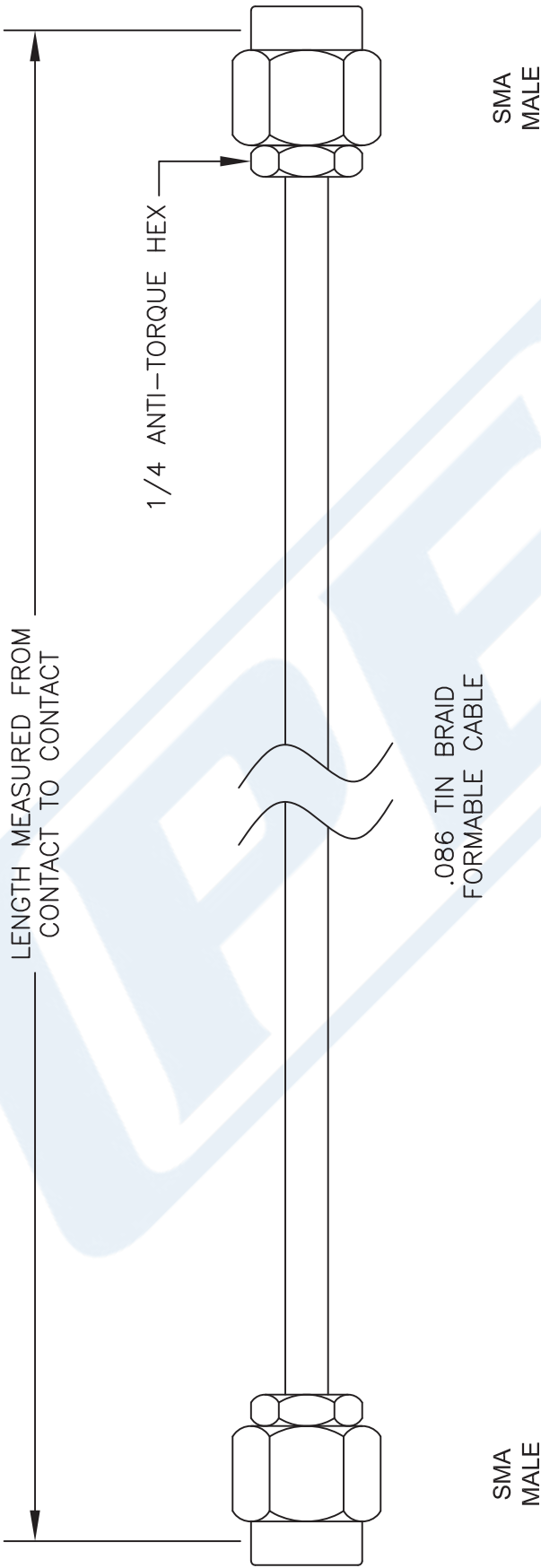
SMA Male to SMA Male Semi-Flexible Cable 18 Inch Length Using PE-SR405FL Coax, LF Solder, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 Cable 18 Inch Length Using PE-SR405FL Coax, LF Solder, RoHS PE39415-18](#)

URL: <https://www.pasternack.com/sma-male-sma-male-pe-sr405fl-cable-assembly-pe39415-18-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.

**PE39415-18 CAD Drawing**  
SMA Male to SMA Male Semi-Flexible Cable 18 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



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DWG TITLE

**PE39415**

FSCM NO. 53919

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].

CAD FILE 110916

SCALE N/A

SIZE A

41742