



## SMA Male to SMA Male Semi-Flexible Precision Cable 12 Inch Length Using PE-SR405FLJ Coax, LF Solder, RoHS

### RF Cable Assemblies Technical Data Sheet

PE39429-12

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-SR405FLJ

#### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket 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 PE39429-12 SMA male to SMA male precision 12 inch cable using PE-SR405FLJ 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 male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE39429-12 SMA male to SMA male cable assembly operates to 18 GHz. 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,

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.

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 12 Inch Length Using PE-SR405FLJ Coax, LF Solder, RoHS PE39429-12](#)



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### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Velocity of Propagation		69.5		%
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 (Typ.)	0.395	0.461	0.627	0.834	1.138	dB

### Mechanical Specifications

#### Cable Assembly

Length*	12 in [304.8 mm]
Diameter	0.315 in [8 mm]
Weight	0.028 lbs [12.7 g]

#### Cable

Cable Type	PE-SR405FLJ
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	0.098 in [2.49 mm]
One Time Minimum Bend Radius	0.236 in [5.99 mm]
Repeated Minimum Bend Radius	0.787 in [19.99 mm]

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### 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 in.	5/16 in.
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.

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

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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## SMA Male to SMA Male Semi-Flexible Precision Cable 12 Inch Length Using PE-SR405FLJ Coax, LF Solder, RoHS

### RF Cable Assemblies Technical Data Sheet

PE39429-12

#### How to Order

Part Number Configuration:

PE39429

- xx

uu

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

Example: PE39429-12 = 12 inches long cable  
PE39429-100cm = 100 cm long cable

SMA Male to SMA Male Semi-Flexible Precision Cable 12 Inch Length Using PE-SR405FLJ 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 99.4% availability and are part of the broadest selection in the industry.

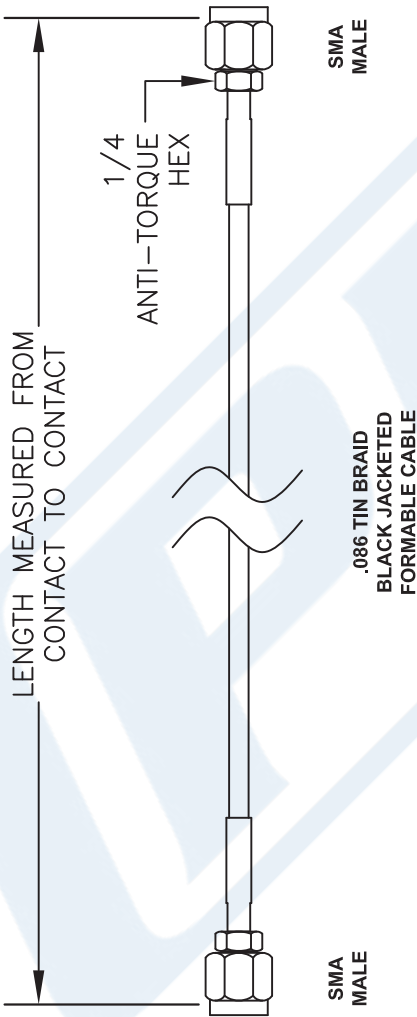
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Semi-Flexible Precision Cable 12 Inch Length Using PE-SR405FLJ Coax, LF Solder, RoHS PE39429-12](https://www.pasternack.com/sma-male-sma-male-pe-sr405flj-cable-assembly-pe39429-12-p.aspx)

URL: <https://www.pasternack.com/sma-male-sma-male-pe-sr405flj-cable-assembly-pe39429-12-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.

PE39429-12 CAD Drawing

SMA Male to SMA Male Semi-Flexible Precision Cable 12 Inch  
Length Using PE-SR405FLJ Coax, LF Solder, RoHS



Note: This part is lead free.

How To Order			
Part Number Configuration		Examples	
PE3	zzz yy - xx uu	PE3000LF-100	
00 - 99999		PE3000-100	
LF = Lead Free		PE3000LF-100CM	
< Blank > = Standard		PE3000-100CM	
Note: LF applies only to RF cables		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

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REV. -

FSCM NO. 53919

CAD FILE 041912

SCALE N/A

SIZE A

2231

DWG TITLE

**PE39429**

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 ± 1.5% OR 3/8", WHICHEVER IS GREATER.