

## SMA Female to SSMC Plug Cable Using PE-SR405FLJ Coax



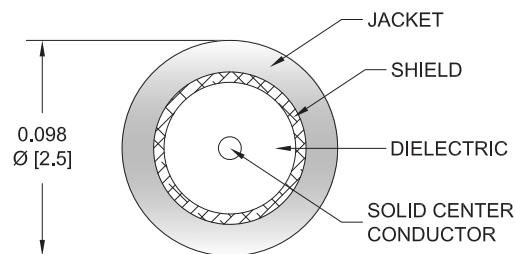
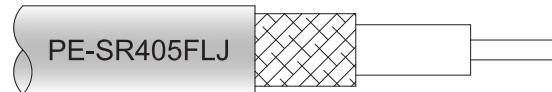
### PE3C5015

#### Configuration

- Connector 1: SMA Female
- Connector 2: SSMC Plug
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

#### Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C5015 SMA female to SSMC plug 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 SSMC cable assembly has a female to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C5015 SMA female to SSMC plug cable assembly operates to 12.4 GHz.

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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
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]
DC Resistance Inner Conductor		65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			250	Vrms

#### Specifications by Frequency

## SMA Female to SSMC Plug Cable Using PE-SR405FLJ Coax



### PE3C5015

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	12400	MHz	
PE3C5015	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.225	0.363	0.594	0.905	dB/ft	
			0.5	0.74	1.2	1.95	2.97	dB/m	
PE3C5015-6	6 inch	Insertion Loss (Typ.)	0.48	0.52	0.59	0.7	0.86	dB	0.02
PE3C5015-9	9 inch	Insertion Loss (Typ.)	0.52	0.57	0.68	0.85	1.08	dB	0.024
PE3C5015-12	12 inch	Insertion Loss (Typ.)	0.55	0.63	0.77	1	1.31	dB	0.027
PE3C5015-18	18 inch	Insertion Loss (Typ.)	0.63	0.74	0.95	1.3	1.76	dB	0.035
PE3C5015-24	24 inch	Insertion Loss (Typ.)	0.7	0.85	1.13	1.59	2.21	dB	0.042

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB  
 Loss due to Connector 2: 0.3 dB  
 Base Weight: 0.027 pounds  
 Additional Weight per Inch: 0.00117 pounds

### Mechanical Specifications

#### Cable Assembly

Weight 0.027 lbs [12.25 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
Outer Conductor 1 Material and Plating	Tinned Copper Composite Braid
Jacket Material	FEP, Black
Jacket Diameter	0.105 in [2.67 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	0.787 in [19.99 mm]

## SMA Female to SSMC Plug Cable Using PE-SR405FLJ Coax



## PE3C5015

### Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SSMC Plug
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	Teflon
Body Material and Plating	Stainless Steel, Gold	Beryllium Copper, Gold
Body Plating Specification	MIL-G-45204	MIL-G-45204
Coupling Nut Material and Plating		Beryllium Copper, Gold
Coupling Nut Plating Specification		MIL-G-45204
Torque		1.75 in-lbs 0.2 Nm

### Environmental Specifications

Operating Range Temperature -55 to +125 deg C

### Compliance Certifications

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

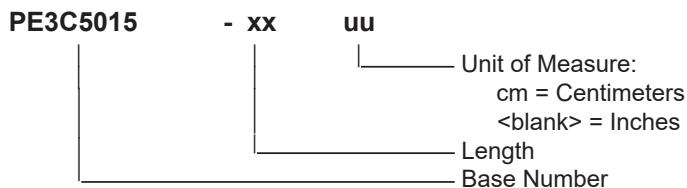
### Plotted and Other Data

Notes:

## SMA Female to SSMC Plug Cable Using PE-SR405FLJ Coax

**PE3C5015****Typical Performance Data****How to Order**

Part Number Configuration:



Example: PE3C5015-12 = 12 inches long cable  
PE3C5015-100cm = 100 cm long cable

SMA Female to SSMC Plug Cable Using PE-SR405FLJ Coax 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 Female to SSMC Plug Cable Using PE-SR405FLJ Coax PE3C5015](#)

URL: <https://www.pasternack.com/sma-female-to-ssmc-plug-cable-using-pe-sr405flj-pe3c5015-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE3C5015 CAD Drawing

SMA Female to SSMC Plug Cable Using PE-SR405FLJ Coax

