



#### RF Cable Assemblies Technical Data Sheet

PE3C4484

#### Configuration

• Connector 1: SMA Male

• Connector 2: SSMC Plug Right Angle

Cable Type: PE-SR405FLJ

#### **Features**

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- SSMC Cable Assembly Max. Operating Frequency of 10 GHz
- Small SSMC cable connection form factor (50% smaller than SMA, radially)
- · Reliable threaded coupling
- · In stock and ready to ship

### SSMC Cable General Purpose

- Data Acquisition Systems
- A/D Conversion Systems
- · Ultra Wideband Digital Receivers
- Software defined radio (SDR)



**Applications** 

General Purpose

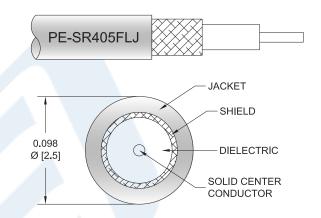
Laboratory Use

Pasternack's PE3C4484 SMA male to SSMC plug right angle 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 male to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C4484 SMA male to SSMC plug cable assembly operates to 10 GHz. The right angle SSMC interface on the PE-SR405FLJ cable allows for easier connections in tight spaces. Pasternack's SSMC cable assemblies are part of our full line of RF components available for same-day shipping. These SSMC cable assemblies are designed to connect SSMC system components and test connections, delivering signal frequencies as high as 10 GHz. Our family of SSMC cables can also be used to connect SSMC ports on data acquisition systems, A/D modules or SSMC coax patch panels. If none of our standard options fit your application, you can specify your own custom SSMC cable assembly using Pasternack's online Cable Creator.

Our SSMC cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide SSMC cabling for a data acquisition system, or simply create a custom cable assembly configuration, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

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 SSMC Plug Right Angle Cable Using PE-SR405FLJ Coax PE3C4484



Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR		980	1.5:1	
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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]

#### Specifications by Frequency

•						
Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10		GHz
Insertion Loss (Max.)	0.15	0.23	0.55	0.81		dB/ft
	0.49	0.75	1.8	2.66		dB/m

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### **Mechanical Specifications**

#### Cable Assembly

Diameter 0.315 in [8 mm]

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 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]

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#### Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SSMC Plug Right Angle	
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
Contact Material and Plating	Brass, Gold over Nickel	Beryllium Copper, Gold	
Contact Plating Specification		MIL-G-45204	
Dielectric Type	PTFE	Teflon	
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold	
Body Plating Specification		MIL-G-45204	
Coupling Nut Material and Plating	Passivated Stainless Steel	Beryllium Copper, Gold	
Coupling Nut Plating Specification		MIL-G-45204	
Hex Size	5/16 inch		
Torque	8 in-lbs [0.9 Nm]	1.75 in-lbs [0.2 Nm]	

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:

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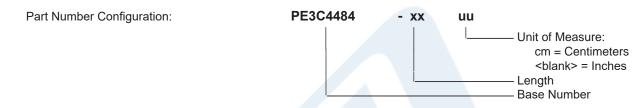




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#### How to Order



Example: PE3C4484-12 = 12 inches long cable PE3C4484-100cm = 100 cm long cable

SMA Male to SSMC Plug Right Angle 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 Male to SSMC Plug Right Angle Cable Using PE-SR405FLJ Coax PE3C4484

URL: https://www.pasternack.com/sma-male-ssmc-plug-pe-sr405flj-cable-assembly-pe3c4484-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.

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