

## SMA Female to SMP Female Cable Using PE-SR405FL Coax



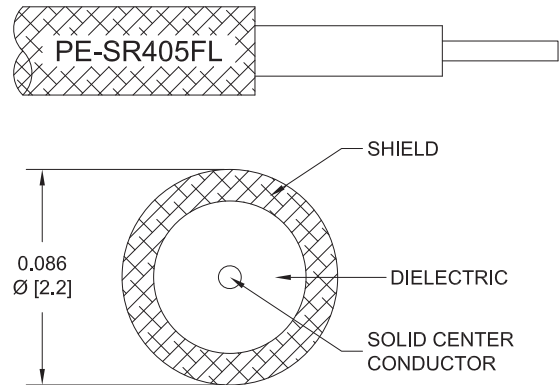
### PE3C1696

#### Configuration

- Connector 1: SMA Female
- Connector 2: SMP Female
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

#### Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C1696 SMA female to SMP female cable using PE-SR405FL 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 SMP cable assembly has a female to female gender configuration with 50 ohm formable PE-SR405FL coax. The PE3C1696 SMA female to SMP female cable assembly operates to 18 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		18	
VSWR			1.4:1	
Velocity of Propagation		69.5		%
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]

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C1696	Custom Lengths Available	Insertion Loss (Typ.)	0.22	0.3	0.5	0.75	1.12	dB/ft	
			0.73	0.99	1.65	2.47	3.68	dB/m	
PE3C1696-6	6 inch	Insertion Loss (Typ.)	0.31	0.35	0.45	0.58	0.76	dB	0.017
PE3C1696-9	9 inch	Insertion Loss (Typ.)	0.37	0.43	0.58	0.77	1.04	dB	0.02
PE3C1696-12	12 inch	Insertion Loss (Typ.)	0.42	0.5	0.7	0.95	1.32	dB	0.022
PE3C1696-24	24 inch	Insertion Loss (Typ.)	0.64	0.8	1.2	1.7	2.44	dB	0.034
PE3C1696-36	36 inch	Insertion Loss (Typ.)	0.86	1.1	1.7	2.45	3.56	dB	0.045

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: 0.1 dB  
 Base Weight: 0.022 pounds  
 Additional Weight per Inch: 0.00092 pounds

### Mechanical Specifications

#### Cable Assembly

Weight 0.022 lbs [9.98 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 1 Material and Plating Copper, Tin  
 Repeated Minimum Bend Radius 0.78 in [19.81 mm]

### Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SMP Female
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold over Nickel	Beryllium Copper, Gold
Body Plating Specification		MIL-G-45204

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#### Environmental Specifications

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

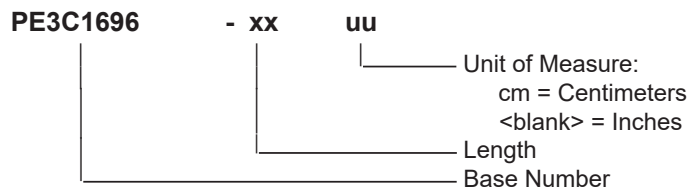
#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3C1696-12 = 12 inches long cable  
PE3C1696-100cm = 100 cm long cable

SMA Female to SMP Female Cable Using PE-SR405FL 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 SMP Female Cable Using PE-SR405FL Coax PE3C1696](#)

URL: <https://www.pasternack.com/sma-female-to-smp-female-cable-using-pe-sr405fl-pe3c1696-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.

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