

SMA Female to SMP Female Cable Using PE-SR405FL Coax



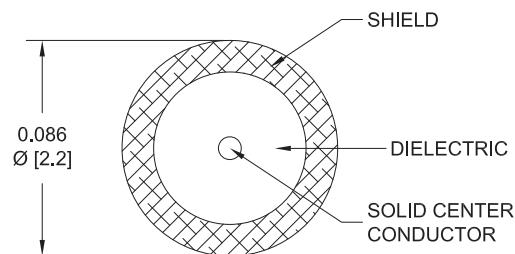
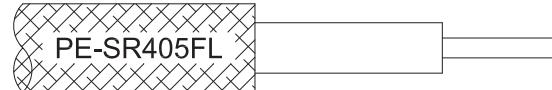
PE3C1696

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 |

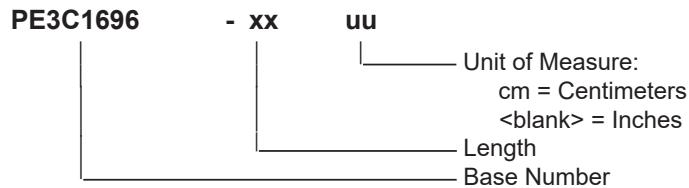
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**PE3C1696****Environmental Specifications****Compliance Certifications** (see product page for current document)**Plotted and Other Data**

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.

PE3C1696 CAD Drawing

SMA Female to SMP Female Cable Using PE-SR405FL Coax

