

## SMA Male to Limited Detent SMP Male 2 Hole Flange Cable Using PE-SR405FL Coax

### PE3W11874

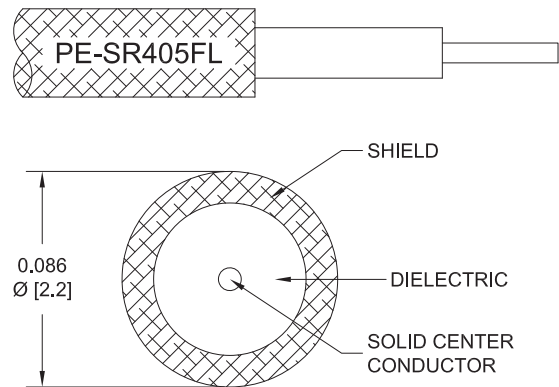


#### Configuration

- Connector 1: SMA Male
- Connector 2: Limited Detent SMP Male 2 Hole Flange
- 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 PE3W11874 SMA male to SMP male limited detent 2 hole flange 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 male to male gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W11874 SMA male to SMP male cable assembly operates to 18 GHz. Our RF cable assembly with SMP 2 hole flange interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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      | GHz                   |
| 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   |              |
| PE3W11874    | Custom Lengths Available | Insertion Loss (Typ.) | 0.23 | 0.31 | 0.508 | 0.759 | 1.122 | dB/ft |              |
|              |                          |                       | 0.74 | 1.01 | 1.67  | 2.5   | 3.69  | dB/m  |              |
| PE3W11874-6  | 6 inch                   | Insertion Loss (Typ.) | 0.32 | 0.36 | 0.46  | 0.58  | 0.77  | dB    | 0.062        |
| PE3W11874-9  | 9 inch                   | Insertion Loss (Typ.) | 0.37 | 0.43 | 0.59  | 0.77  | 1.05  | dB    | 0.065        |
| PE3W11874-12 | 12 inch                  | Insertion Loss (Typ.) | 0.43 | 0.51 | 0.71  | 0.96  | 1.33  | dB    | 0.067        |
| PE3W11874-24 | 24 inch                  | Insertion Loss (Typ.) | 0.65 | 0.81 | 1.22  | 1.72  | 2.45  | dB    | 0.079        |
| PE3W11874-36 | 36 inch                  | Insertion Loss (Typ.) | 0.88 | 1.12 | 1.73  | 2.48  | 3.57  | dB    | 0.09         |

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:                | 0.067 pounds   |
| Additional Weight per Inch: | 0.00092 pounds |

## Mechanical Specifications

### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.067 lbs [30.39 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]        |

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**PE3W11874**

### Connectors

| Description                          | Connector 1            | Connector 2            |
|--------------------------------------|------------------------|------------------------|
| Type                                 | SMA Male               | SMP Male 2 Hole Flange |
| Specification                        |                        | MIL-STD-348A           |
| Impedance                            | 50 Ohms                | 50 Ohms                |
| Configuration                        | Straight               | Straight               |
| Connection Method                    |                        | Limited Detent         |
| Mating Cycles                        | 500                    |                        |
| Contact Material and Plating         | Beryllium Copper, Gold | Brass, Gold            |
| Contact Plating Specification        | ASTM-B488              |                        |
| Dielectric Type                      | PTFE                   | PTFE                   |
| Outer Conductor Material and Plating |                        | Brass, Gold            |
| Body Material and Plating            | Beryllium Copper, Gold | Brass, Gold            |
| Body Plating Specification           | ASTM-B488              |                        |
| Coupling Nut Material and Plating    | Steel                  |                        |
| Torque                               | 7 in-lbs 0.79 Nm       |                        |
| Seal Gasket Material                 | Silicone Rubber        |                        |

### Environmental Specifications

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

### Plotted and Other Data

Notes:

## SMA Male to Limited Detent SMP Male 2 Hole Flange Cable Using PE-SR405FL Coax



**PE3W11874**

## Typical Performance Data

## How to Order

Part Number Configuration:

**PE3W11874**

- XX

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- Unit of Measure:  
cm = Centimeters  
<blank> = Inches

- Length

- Base Number

Example: PE3W11874-12 = 12 inches long cable  
PE3W11874-100cm = 100 cm long cable

SMA Male to Limited Detent SMP Male 2 Hole Flange 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 Male to Limited Detent SMP Male 2 Hole Flange Cable Using PE-SR405FL Coax PE3W11874](#)

URL: <https://www.pasternack.com/sma-male-to-limited-detent-smp-male-2-hole-flange-cable-using-pe-sr405fl-pe3w11874-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.

PE3W11874 CAD Drawing
SMA Male to Limited Detent SMP Male 2 Hole Flange Cable Using PE-SR405FL Coax

