

## Limited Detent SMP Male Bulkhead to SMA Male Right Angle Cable Using PE-SR405FL Coax



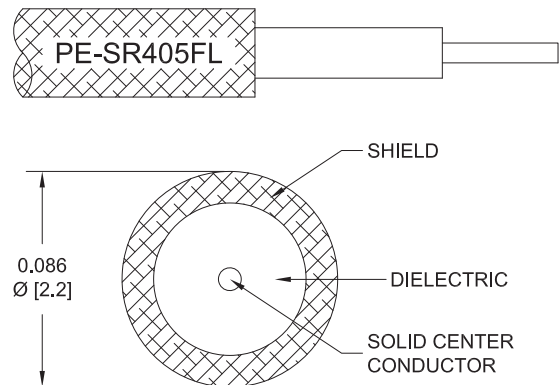
### PE3W15210

#### Configuration

- Connector 1: Limited Detent SMP Male Bulkhead
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

#### Features

- Max Frequency 10 GHz
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W15210 SMP male limited detent bulkhead to SMA male right angle 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 SMP to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W15210 SMP male to SMA male cable assembly operates to 10 GHz. The right angle SMA interface on the PE-SR405FL cable allows for easier connections in tight spaces. Our RF cable assembly with SMP bulkhead 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      |               | 10      | 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             | 500  | 1000 | 2500  | 5000  | 10000 | MHz   |              |
| PE3W15210    | Custom Lengths<br>Available | Insertion Loss (Typ.) | 0.15 | 0.23 | 0.345 | 0.549 | 0.812 | dB/ft |              |
|              |                             |                       | 0.5  | 0.74 | 1.14  | 1.81  | 2.67  | dB/m  |              |
| PE3W15210-6  | 6 inch                      | Insertion Loss (Typ.) | 0.38 | 0.42 | 0.48  | 0.58  | 0.71  | dB    | 0.026        |
| PE3W15210-9  | 9 inch                      | Insertion Loss (Typ.) | 0.42 | 0.47 | 0.56  | 0.72  | 0.91  | dB    | 0.029        |
| PE3W15210-12 | 12 inch                     | Insertion Loss (Typ.) | 0.45 | 0.53 | 0.65  | 0.85  | 1.12  | dB    | 0.031        |
| PE3W15210-24 | 24 inch                     | Insertion Loss (Typ.) | 0.6  | 0.75 | 0.99  | 1.4   | 1.93  | dB    | 0.043        |
| PE3W15210-36 | 36 inch                     | Insertion Loss (Typ.) | 0.75 | 0.98 | 1.34  | 1.95  | 2.74  | dB    | 0.054        |

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:    | 0.2 dB         |
| Base Weight:                | 0.031 pounds   |
| Additional Weight per Inch: | 0.00092 pounds |

### Mechanical Specifications

#### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.031 lbs [14.06 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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#### Connectors

| Description                        | Connector 1       | Connector 2           |
|------------------------------------|-------------------|-----------------------|
| Type                               | SMP Male Bulkhead | SMA Male Right Angle  |
| Specification                      | MIL-STD-348A      | MIL-STD-348A          |
| Impedance                          | 50 Ohms           | 50 Ohms               |
| Configuration                      | Straight          | Right Angle           |
| Connection Method                  | Limited Detent    |                       |
| Mating Cycles                      | 500               |                       |
| Contact Material and Plating       | Brass, Gold       | Brass, Gold           |
| Contact Plating Specification      |                   | 50 µin minimum        |
| Dielectric Type                    | PTFE              | PTFE                  |
| Body Material and Plating          | Brass, Gold       | Stainless Steel, Gold |
| Body Plating Specification         |                   | 30 µin minimum        |
| Coupling Nut Material and Plating  |                   | Brass, Nickel         |
| Coupling Nut Plating Specification |                   | 100 µin minimum       |
| Hex Size                           |                   | 5/16 inch             |
| Torque                             |                   | 5 in-lbs 0.57 Nm      |

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

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### PE3W15210

#### Typical Performance Data

#### How to Order

Part Number Configuration: **PE3W15210**    **- xx**    **uu**

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

Length

Base Number

Example: PE3W15210-12 = 12 inches long cable  
PE3W15210-100cm = 100 cm long cable

Limited Detent SMP Male Bulkhead to SMA Male Right Angle 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: [Limited Detent SMP Male Bulkhead to SMA Male Right Angle Cable Using PE-SR405FL Coax PE3W15210](#)

URL: <https://www.pasternack.com/limited-detent-smp-male-bulkhead-to-sma-male-cable-using-pe-sr405fl-pe3w15210-p.aspx>

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