

## Slide-On BMA Jack 2 Hole Flange to SMP Female Right Angle Cable 6 Inch Length Using PE-SR405FLJ Coax

### PE3C4870-6

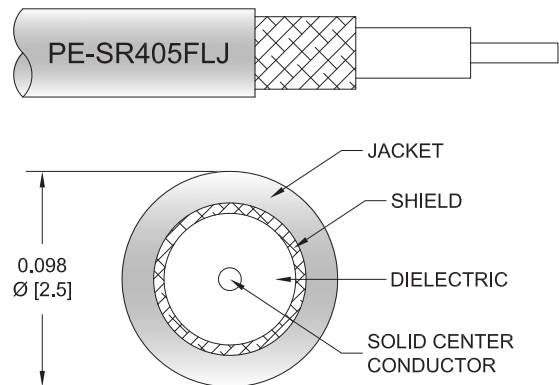


#### Configuration

- Connector 1: Slide-On BMA Jack 2 Hole Flange
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

#### Features

- Max Frequency 20 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- Good VSWR of 1.5:1
- Gold Plated BMA Contacts
- Low Engagement Force BMA interface
- In stock and ready to ship



#### Applications

- General Purpose
- Laboratory Use
- BMA Cable RF Backplanes
- Blind Mate BMA Test
- Rack and Panel
- Phased Array Interconnects
- High Speed Switching Networks

#### Description

Pasternack's BMA cable assemblies using PE-SR405FLJ Coax are part of our full line of RF components available for same-day shipping. These BMA cable assemblies are designed to connect BMA system components, BMA racks, or BMA backplanes, delivering signal frequencies as high as 20 GHz. Our family of BMA cables can also be used to connect switching networks or phase-matched antenna arrays where low loss BMA interconnects are desired. If none of our standard options fit your application, you can specify your own custom BMA cable assembly using Pasternack's online Cable Creator.

Our BMA 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 BMA cabling or blind mate rack connections, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

#### Electrical Specifications

| Description             | Minimum | Typical     | Maximum | Units        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 20      | GHz          |
| VSWR                    |         |             | 1.5:1   |              |
| Return Loss             |         |             | 15.56   | dB           |
| 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] |

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#### Electrical Specifications

| Description            | Minimum | Typical | Maximum | Units |
|------------------------|---------|---------|---------|-------|
| Operating Voltage (AC) |         |         | 335     | Vrms  |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5  | Units |
|-----------------------|------|------|------|------|-----|-------|
| Frequency             | 1    | 2    | 4.5  | 9    | 20  | GHz   |
| Insertion Loss (Max.) | 0.32 | 0.36 | 0.46 | 0.58 | 0.8 | dB    |

#### Mechanical Specifications

##### Cable Assembly

|                |                    |
|----------------|--------------------|
| Width/Diameter | 0.75 in [19.05 mm] |
| Weight         | 0.03 lbs [13.61 g] |

##### 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 1 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]           |

#### Connectors

| Description                          | Connector 1            | Connector 2            |
|--------------------------------------|------------------------|------------------------|
| Type                                 | BMA Jack 2 Hole Flange | SMP Female Right Angle |
| Specification                        |                        | MIL-STD-348A           |
| Impedance                            | 50 Ohms                | 50 Ohms                |
| Configuration                        | Straight               | Right Angle            |
| Connection Method                    | Slide-On               |                        |
| Contact Material and Plating         | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification        | 51.18µ in. minimum     |                        |
| Dielectric Type                      | PTFE                   | PTFE                   |
| Outer Conductor Material and Plating | Beryllium Copper, Gold |                        |
| Body Material and Plating            | Stainless Steel, Gold  | Beryllium Copper, Gold |
| Body Plating Specification           | 19.68µ in. minimum     |                        |

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## PE3C4870-6

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### Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

### Plotted and Other Data

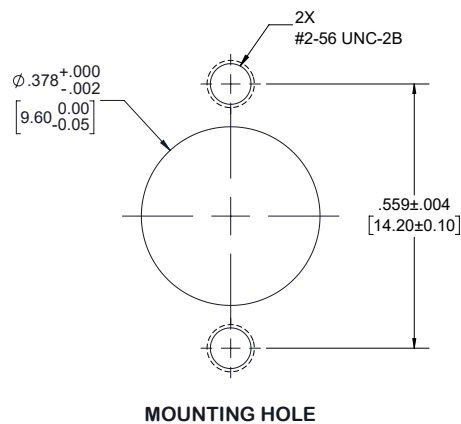
Notes:

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## PE3C4870-6

### Typical Performance Data



## Slide-On BMA Jack 2 Hole Flange to SMP Female Right Angle Cable 6 Inch Length Using PE-SR405FLJ Coax



### PE3C4870-6

#### How to Order

Part Number Configuration: **PE3C4870 - xx uu**

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

Length

Base Number

Example: PE3C4870-12 = 12 inches long cable  
PE3C4870-100cm = 100 cm long cable

Slide-On BMA Jack 2 Hole Flange to SMP Female Right Angle Cable 6 Inch Length 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: [Slide-On BMA Jack 2 Hole Flange to SMP Female Right Angle Cable 6 Inch Length Using PE-SR405FLJ Coax PE3C4870-6](#)

URL: <https://www.pasternack.com/bma-jack-smp-female-pe-sr405flj-cable-assembly-pe3c4870-6-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.

PE3C4870-6 CAD Drawing

Slide-On BMA Jack 2 Hole Flange to SMP Female Right Angle Cable 6 Inch Length Using PE-SR405FLJ Coax

