



## Slide-On BMA Plug Bulkhead to Slide-On BMA Plug Bulkhead Cable 36 Inch Length Using PE-SR405FLJ Coax

### RF Cable Assemblies Technical Data Sheet

PE3C4844-36

#### Configuration

- Connector 1: Slide-On BMA Plug Bulkhead
- Connector 2: Slide-On BMA Plug Bulkhead
- Cable Type: PE-SR405FLJ

#### Features

- Max Frequency 22 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 22 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.

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 Plug Bulkhead to Slide-On BMA Plug Bulkhead Cable 36 Inch Length Using PE-SR405FLJ Coax PE3C4844-36](#)



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**Electrical Specifications**

| Description             | Minimum | Typical     | Maximum | Units        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 22      | 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] |
| Operating Voltage (AC)  |         |             | 350     | Vrms         |

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5  | Units |
|-----------------------|------|------|------|------|-----|-------|
| Frequency             | 0.5  | 1    | 5    | 10   | 20  | GHz   |
| Insertion Loss (Typ.) | 0.65 | 0.88 | 1.85 | 2.64 | 3.8 | dB    |

**Mechanical Specifications**

**Cable Assembly**

|          |                  |
|----------|------------------|
| Length*  | 36 in [914.4 mm] |
| Diameter | 0.315 in [8 mm]  |

**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 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] |

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**Connectors**

| Description                           | Connector 1        | Connector 2        |
|---------------------------------------|--------------------|--------------------|
| Type                                  | BMA Plug Bulkhead  | BMA Plug Bulkhead  |
| Impedance                             | 50 Ohms            | 50 Ohms            |
| Connection Method                     | Slide-On           | Slide-On           |
| Contact Material and Plating          | Bronze, Gold       | Bronze, Gold       |
| Contact Plating Specification         | 51.18µ in. minimum | 51.18µ in. minimum |
| Dielectric Type                       | PTFE               | PTFE               |
| Outer Conductor Material and Plating  | Brass, Tri-Metal   | Brass, Tri-Metal   |
| Outer Conductor Plating Specification | 78.74µ in. minimum | 78.74µ in. minimum |
| Body Material and Plating             | Brass, Tri-Metal   | Brass, Tri-Metal   |
| Body Plating Specification            | 78.74µ in. minimum | 78.74µ in. minimum |
| Hex Size                              | 8 mm               | 8 mm               |

**Mechanical Specification Notes:**

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

**Environmental Specifications**

**Temperature**

Operating Range -55 to +125 deg C

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

**Plotted and Other Data**

Notes:

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### Typical Performance Data



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**How to Order**

Part Number Configuration:

**PE3C4844**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C4844-12 = 12 inches long cable  
PE3C4844-100cm = 100 cm long cable

Slide-On BMA Plug Bulkhead to Slide-On BMA Plug Bulkhead Cable 36 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.

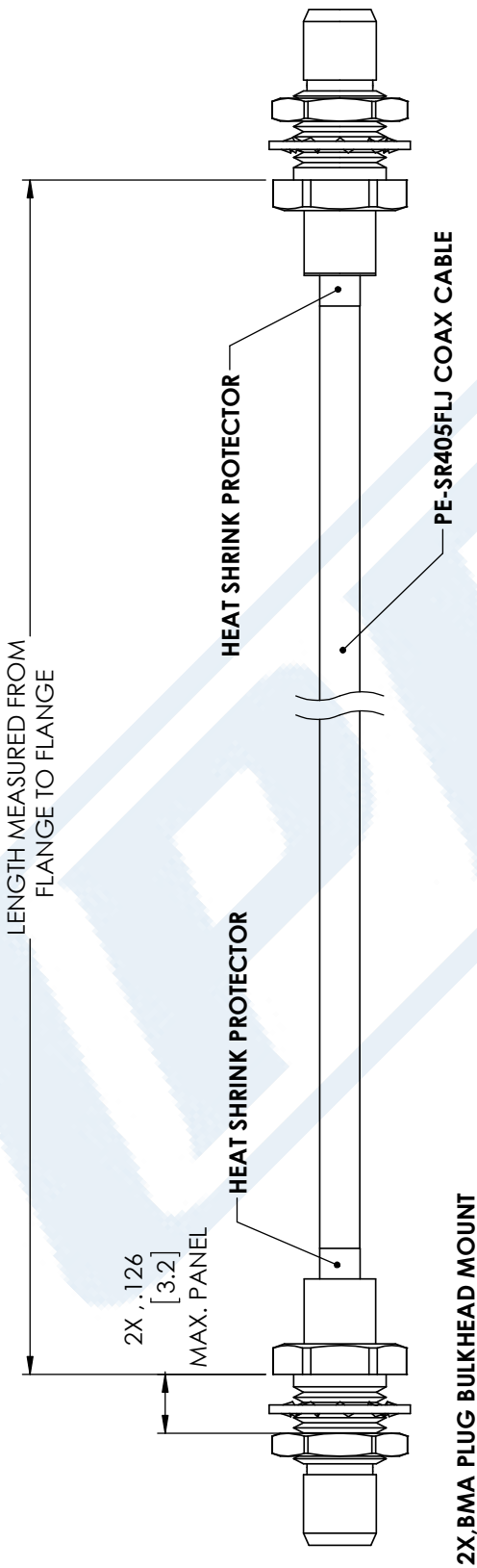
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Slide-On BMA Plug Bulkhead to Slide-On BMA Plug Bulkhead Cable 36 Inch Length Using PE-SR405FLJ Coax PE3C4844-36](https://www.pasternack.com/bma-plug-bma-plug-pe-sr405flj-cable-assembly-pe3c4844-36-p.aspx)

URL: <https://www.pasternack.com/bma-plug-bma-plug-pe-sr405flj-cable-assembly-pe3c4844-36-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3C4844-36 CAD Drawing

Slide-On BMA Plug Bulkhead to Slide-On BMA Plug Bulkhead  
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| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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THE ENGINEER'S RF SOURCE

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DWG TITLE  
PE3C4844

CAGE CODE 53919

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

CAD FILE 12/06/17

SCALE N/A

SIZE A

CN2245