



## SMA Male to SSMC Jack Bulkhead Cable 36 Inch Length Using PE-SR405FLJ Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C4445-36**

#### Configuration

- Connector 1: SMA Male
- Connector 2: SSMC Jack Bulkhead
- Cable Type: PE-SR405FLJ

#### Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- SSMC Cable Assembly Max. Operating Frequency of 12.4 GHz
- Small SSMC cable connection form factor (50% smaller than SMA, radially)
- Reliable threaded coupling
- In stock and ready to ship



#### Applications

- General Purpose
- Laboratory Use
- SSMC Cable General Purpose Test
- Data Acquisition Systems
- A/D Conversion Systems
- Ultra Wideband Digital Receivers
- Software defined radio (SDR)

#### Description

Pasternack's PE3C4445-36 SMA male to SSMC jack bulkhead 36 inch cable using PE-SR405FLJ 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 SSMC cable assembly has a male to jack gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C4445-36 SMA male to SSMC jack cable assembly operates to 12.4 GHz. Our RF cable assembly with SSMC 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.

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 SSMC Jack Bulkhead Cable 36 Inch Length Using PE-SR405FLJ Coax PE3C4445-36](#)



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**Electrical Specifications**

| Description                   | Minimum | Typical       | Maximum | Units           |
|-------------------------------|---------|---------------|---------|-----------------|
| Frequency Range               | DC      |               | 12.4    | GHz             |
| VSWR                          |         |               | 1.4:1   |                 |
| 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]    |
| DC Resistance Inner Conductor |         | 65.7 [215.55] |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 10.2 [33.46]  |         | Ω/1000ft [Ω/Km] |

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.5  | 1    | 5    | 10   | 12.4 | GHz   |
| Insertion Loss (Max.) | 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                                  | SMA Male                   | SSMC Jack Bulkhead     |
| Impedance                             | 50 Ohms                    | 50 Ohms                |
| Mating Cycles                         |                            | 500                    |
| Contact Material and Plating          | Brass, Gold over Nickel    | Beryllium Copper, Gold |
| Contact Plating Specification         |                            | MIL-G-45204            |
| Dielectric Type                       | PTFE                       | Teflon                 |
| Outer Conductor Material and Plating  |                            | Beryllium Copper, Gold |
| Outer Conductor Plating Specification |                            | MIL-G-45204            |
| Body Material and Plating             | Brass, Gold over Nickel    | Beryllium Copper, Gold |
| Body Plating Specification            |                            | MIL-G-45204            |
| Coupling Nut Material and Plating     | Passivated Stainless Steel |                        |
| Hex Size                              | 5/16 inch                  |                        |
| Torque                                | 8 in-lbs [0.9 Nm]          | 1.75 in-lbs [0.2 Nm]   |

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

#### Plotted and Other Data

Notes:

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## SMA Male to SSMC Jack Bulkhead Cable 36 Inch Length Using PE-SR405FLJ Coax

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**PE3C4445-36**

#### How to Order

Part Number Configuration:

**PE3C4445**

- **xx**

**uu**

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

Example: PE3C4445-12 = 12 inches long cable  
PE3C4445-100cm = 100 cm long cable

SMA Male to SSMC Jack 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.

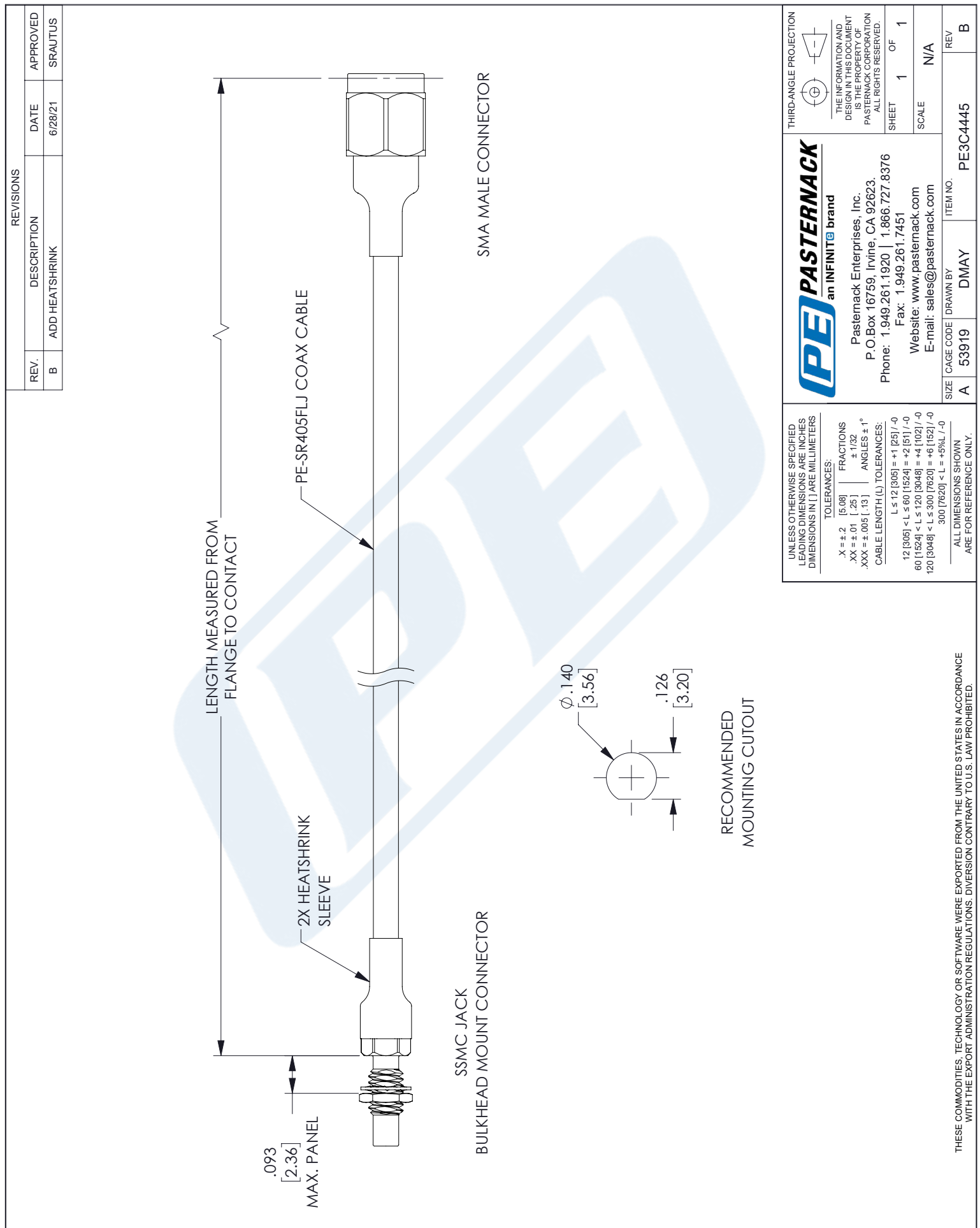
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SSMC Jack Bulkhead Cable 36 Inch Length Using PE-SR405FLJ Coax PE3C4445-36](#)

URL: <https://www.pasternack.com/sma-male-ssmc-jack-pe-sr405flj-cable-assembly-pe3c4445-36-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.

# PE3C4445-36 CAD Drawing

SMA Male to SSMC Jack Bulkhead Cable 36 Inch Length Using PE-SR405FLJ Coax



|                                                                                                  |            |
|--------------------------------------------------------------------------------------------------|------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |            |
| TOLERANCES:                                                                                      |            |
| .X = ± .2                                                                                        | [5.08]     |
| .XX = ± .01                                                                                      | [.25]      |
| .XXX = ± .005                                                                                    | [.13]      |
| ANGLES                                                                                           | ± 1°       |
| CABLE LENGTH (L) TOLERANCES:                                                                     |            |
| L ≤ 12 [305]                                                                                     | ± .1 [25]  |
| 12 [305] < L ≤ 60 [1524]                                                                         | ± .2 [51]  |
| 60 [1524] < L ≤ 120 [3048]                                                                       | ± .4 [102] |
| 120 [3048] < L ≤ 300 [7620]                                                                      | ± .6 [152] |
| 300 [7620] < L                                                                                   | ± .5% L    |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |            |

|                                                                                                                                                                                                                                               |                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>PE PASTERNAK</b><br>an INFINITE brand<br>Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>Website: www.pasternack.com<br>E-mail: sales@pasternack.com |                                                                                                                                  |
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| SHEET 1                                                                                                                                                                                                                                       | OF 1                                                                                                                             |
| SCALE                                                                                                                                                                                                                                         | N/A                                                                                                                              |
| SIZE                                                                                                                                                                                                                                          | CAGE CODE                                                                                                                        |
| A                                                                                                                                                                                                                                             | 53919                                                                                                                            |
| DRAWN BY                                                                                                                                                                                                                                      | DMAY                                                                                                                             |
| ITEM NO.                                                                                                                                                                                                                                      | PE3C4445                                                                                                                         |
| REV                                                                                                                                                                                                                                           | B                                                                                                                                |

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