



## SMA Female Bulkhead to SMA Male Right Angle Cable Using PE-SR402FLJ Coax

### TECHNICAL DATA SHEET

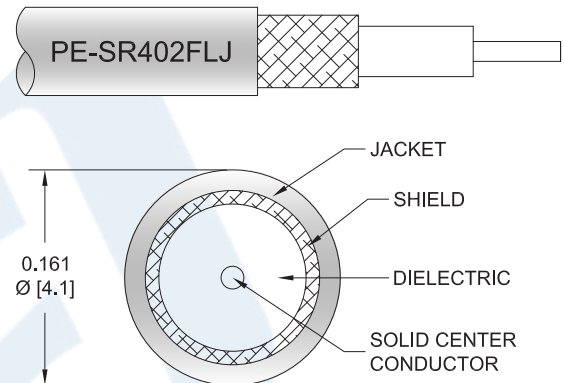
**PE3W04454**

#### Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR402FLJ
- Coax Flex Type: Formable

#### Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W04454 SMA female bulkhead to SMA male right angle cable using PE-SR402FLJ 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 SMA cable assembly has a female to male gender configuration with 50 ohm formable PE-SR402FLJ coax. The PE3W04454 SMA female to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interface on the PE-SR402FLJ cable allows for easier connections in tight spaces. Our RF cable assembly with SMA 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 Female Bulkhead to SMA Male Right Angle Cable Using PE-SR402FLJ Coax PE3W04454](#)



## SMA Female Bulkhead to SMA Male Right Angle Cable Using PE-SR402FLJ Coax

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#### Electrical Specifications

| Description             | Minimum | Typical     | Maximum | Units        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 12.4    | GHz          |
| VSWR                    |         |             | 1.4:1   |              |
| Velocity of Propagation |         | 70          |         | %            |
| 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)  |         |             | 500     | Vrms         |

#### Specifications by Frequency

| Part Number  | Length                   | Description           | F1   | F2   | F3   | F4   | F5    | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|------|------|------|------|-------|-------|--------------|
|              |                          | Frequency             | 500  | 1000 | 2500 | 5000 | ##### | MHz   |              |
| PE3W04454    | Custom Lengths Available | Insertion Loss (Typ.) | 0.08 | 0.12 | 0.18 | 0.28 | 0.54  | dB/ft |              |
|              |                          |                       | 0.27 | 0.4  | 0.6  | 0.92 | 1.78  | dB/m  |              |
| PE3W04454-6  | 6 inch                   | Insertion Loss (Typ.) | 0.35 | 0.36 | 0.39 | 0.44 | 0.57  | dB    | 0.039        |
| PE3W04454-9  | 9 inch                   | Insertion Loss (Typ.) | 0.37 | 0.39 | 0.44 | 0.51 | 0.71  | dB    | 0.046        |
| PE3W04454-12 | 12 inch                  | Insertion Loss (Typ.) | 0.39 | 0.42 | 0.48 | 0.58 | 0.84  | dB    | 0.053        |
| PE3W04454-18 | 18 inch                  | Insertion Loss (Typ.) | 0.43 | 0.48 | 0.57 | 0.72 | 1.11  | dB    | 0.068        |
| PE3W04454-24 | 24 inch                  | Insertion Loss (Typ.) | 0.47 | 0.54 | 0.66 | 0.86 | 1.38  | dB    | 0.083        |

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: 0.2 dB  
 Loss due to Connector 2: 0.1 dB  
 Base Weight: 0.053 pounds  
 Additional Weight per Inch: 0.00242 pounds

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.053 lbs [24.04 g]

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#### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | PE-SR402FLJ               |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Solid                     |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Number of Shields                    | 1                         |
| Shield Layer 1                       | Tinned Copper Braid       |
| Jacket Material                      | FEP, Black                |
| Jacket Diameter                      | 0.161 in [4.09 mm]        |
| One Time Minimum Bend Radius         | 0.315 in [8 mm]           |
| Repeated Minimum Bend Radius         | 1.575 in [40.01 mm]       |

#### Connectors

| Description                        | Connector 1                  | Connector 2                   |
|------------------------------------|------------------------------|-------------------------------|
| Type                               | SMA Female Bulkhead Threaded | SMA Male Right Angle Threaded |
| Specification                      | MIL-STD-348A                 | MIL-STD-348A                  |
| Impedance                          | 50 Ohms                      | 50 Ohms                       |
| Contact Material and Plating       | Beryllium Copper, Gold       | Brass, Gold                   |
| Contact Plating Specification      | 50 µin minimum               | 50 µin minimum                |
| Dielectric Type                    | PTFE                         | PTFE                          |
| Body Material and Plating          | Stainless Steel, Gold        | Stainless Steel, Gold         |
| Body Plating Specification         | 30 µin minimum               | 30 µin minimum                |
| Coupling Nut Material and Plating  |                              | Brass, Nickel                 |
| Coupling Nut Plating Specification |                              | 100 µin minimum               |
| Hex Size                           |                              | 5/16 inch                     |
| Torque                             |                              | 3 in-lbs [0.34 Nm]            |

#### 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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## SMA Female Bulkhead to SMA Male Right Angle Cable Using PE-SR402FLJ Coax

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**PE3W04454**

#### How to Order

Part Number Configuration:

**PE3W04454**

- **xx**

**uu**

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

Example: PE3W04454-12 = 12 inches long cable  
PE3W04454-100cm = 100 cm long cable

SMA Female Bulkhead to SMA Male Right Angle Cable Using PE-SR402FLJ 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 Female Bulkhead to SMA Male Right Angle Cable Using PE-SR402FLJ Coax PE3W04454](https://www.pasternack.com/sma-female-sma-male-pe-sr402flj-cable-assembly-pe3w04454-p.aspx)

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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.

