



## 3.5mm Female Bulkhead to 3.5mm Female Cable Using PE-SR402FLJ Coax in 36 Inch

### RF Cable Assemblies Technical Data Sheet

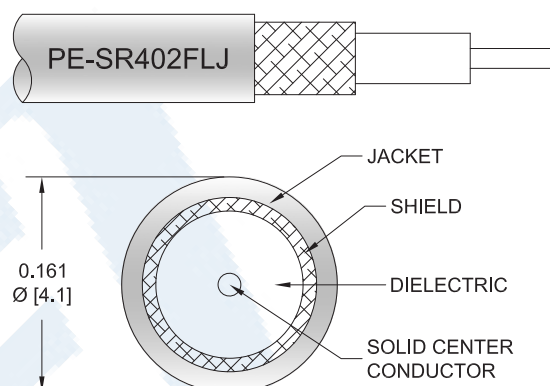
**PE3W13944-36**

#### Configuration

- Connector 1: 3.5mm Female Bulkhead
- Connector 2: 3.5mm Female
- Cable Type: PE-SR402FLJ

#### Features

- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W13944-36 3.5mm female bulkhead to 3.5mm female 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 3.5mm to 3.5mm cable assembly has a female to female gender configuration with 50 ohm formable PE-SR402FLJ coax. Our RF cable assembly with 3.5mm 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           |
|-------------------------------|---------|-------------|---------|-----------------|
| 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]    |
| DC Resistance Inner Conductor |         | 8.23 [27]   |         | Ω/1000ft [Ω/Km] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Female Bulkhead to 3.5mm Female Cable Using PE-SR402FLJ Coax in 36 Inch PE3W13944-36](#)



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**Mechanical Specifications**

**Cable Assembly**

|         |                     |
|---------|---------------------|
| Length* | 36 in [914.4 mm]    |
| Weight  | 0.091 lbs [41.28 g] |

**Cable**

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | PE-SR402FLJ         |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Solid               |
| Inner Conductor Material and Plating | Copper, Silver      |
| Dielectric Type                      | PTFE                |
| Outer Conductor Material and Plating | 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                          | 3.5mm Female Bulkhead      | 3.5mm Female                       |
| Impedance                     | 50 Ohms                    | 50 Ohms                            |
| Contact Material and Plating  | Gold                       | Beryllium Copper, Gold over Nickel |
| Contact Plating Specification |                            | 50 µin minimum                     |
| Dielectric Type               | PTFE                       | PCTFE                              |
| Body Material and Plating     | Passivated Stainless Steel | Passivated Stainless Steel         |
| Body Plating Specification    |                            | SAE-AMS-2700                       |

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

**Plotted and Other Data**

Notes:

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**PE3W13944-36**

#### How to Order

Part Number Configuration:

**PE3W13944**

- **xx**

**uu**

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

Example: PE3W13944-12 = 12 inches long cable  
PE3W13944-100cm = 100 cm long cable

3.5mm Female Bulkhead to 3.5mm Female Cable Using PE-SR402FLJ Coax in 36 Inch 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: [3.5mm Female Bulkhead to 3.5mm Female Cable Using PE-SR402FLJ Coax in 36 Inch PE3W13944-36](https://www.pasternack.com/3.5mm-female-bulkhead-to-3.5mm-female-cable-using-pe-sr402flj-pe3w13944-36-p.aspx)

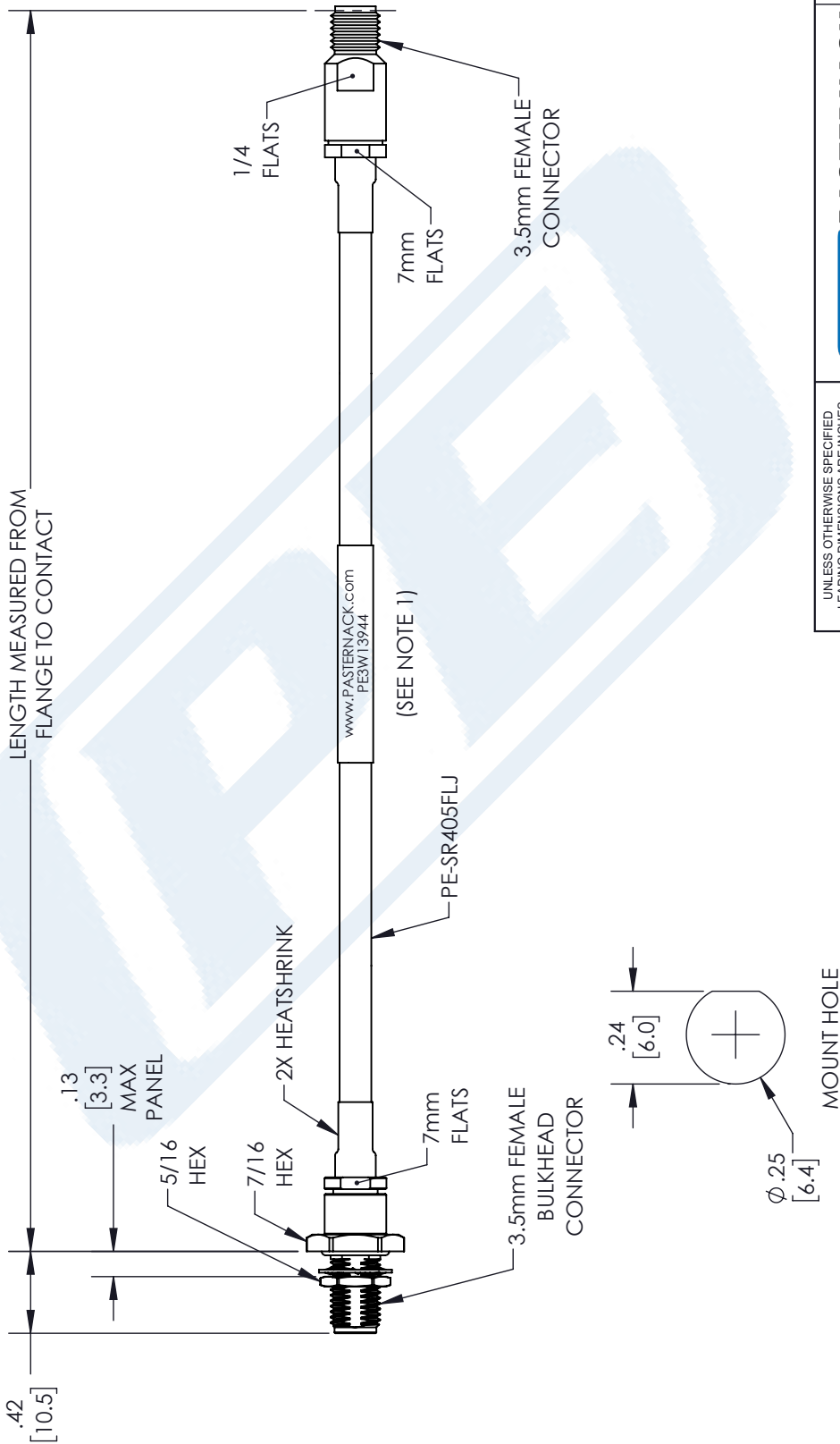
URL: <https://www.pasternack.com/3.5mm-female-bulkhead-to-3.5mm-female-cable-using-pe-sr402flj-pe3w13944-36-p.aspx>

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.

# PE3W13944-36 CAD Drawing

3.5mm Female Bulkhead to 3.5mm Female Cable Using PE-SR402FLJ Coax in 36 Inch

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 08/10/2022 | AGANWANI |



## NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM END OF CONNECTOR

MOUNT HOLE

| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |             |
|--------------------------------------------------------------------------------------------------|-------------|
| TOLERANCES:                                                                                      | FRACTIONS   |
| .X = ± .2                                                                                        | [5.08]      |
| .XX = ± .02                                                                                      | [.51]       |
| .XXX = ± .005                                                                                    | [.13]       |
| CABLE LENGTH (L) TOLERANCES:                                                                     | ANGLES ± 1° |
| L ≤ 12 [305] = ± 1 [25] / -0                                                                     |             |
| 12 [305] < L ≤ 60 [1524] = ± 2 [51] / -0                                                         |             |
| 60 [1524] < L ≤ 120 [3048] = ± 4 [102] / -0                                                      |             |
| 120 [3048] < L ≤ 300 [7620] = ± 6 [152] / -0                                                     |             |
| 300 [7620] < L = ± 5% / -0                                                                       |             |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |             |

|                                                                                                                                                                                                   |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>PE PASTERNAK</b><br>an INFINITI brand                                                                                                                                                          |           |
| 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 |           |
| SIZE                                                                                                                                                                                              | ITEM NO.  |
| A                                                                                                                                                                                                 | 53919     |
| CAGE CODE                                                                                                                                                                                         | BPUCHASKI |
| DRAWN BY                                                                                                                                                                                          | PE3W13944 |
| REV                                                                                                                                                                                               | A         |

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|-----------------------------------------------------------------------------------------------------------------------|--------|
| THIRD-ANGLE PROJECTION                                                                                                |        |
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| SHEET                                                                                                                 | 1 OF 1 |
| SCALE                                                                                                                 | N/A    |

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