

SMP Female Right Angle to Limited Detent SMP Male Bulkhead  
Cable Using PE-SR405FLJ Coax , LF Solder in 12 Inch



**RF Cable Assemblies Technical Data Sheet**

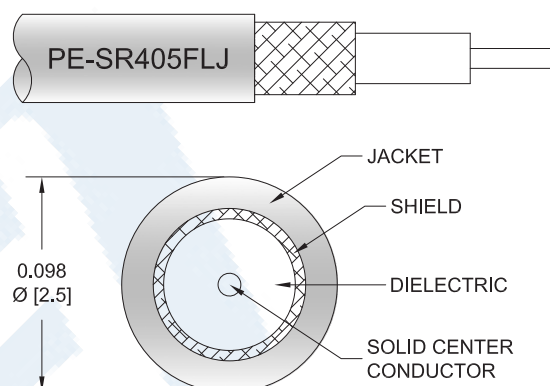
**PE3C1495LF-12**

**Configuration**

- Connector 1: SMP Female Right Angle
- Connector 2: Limited Detent SMP Male Bulkhead
- Cable Type: PE-SR405FLJ

**Features**

- Max Frequency 20 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C1495LF-12 SMP female right angle to SMP male limited detent bulkhead 12 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 SMP to SMP cable assembly has a female to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C1495LF-12 SMP female to SMP male cable assembly operates to 20 GHz. The right angle SMP interface on the PE-SR405FLJ cable allows for easier connections in tight spaces. Our RF cable assembly with SMP 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: [SMP Female Right Angle to Limited Detent SMP Male Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder in 12 Inch PE3C1495LF-12](#)



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## RF Cable Assemblies Technical Data Sheet

**PE3C1495LF-12**

### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units           |
|-------------------------------|---------|---------------|---------|-----------------|
| Frequency Range               | DC      |               | 20      | GHz             |
| VSWR                          |         |               | 1.5:1   |                 |
| 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] |
| 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 (Typ.) | 0.43 | 0.55 | 0.83 | 1.16 | 1.75 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 x sqrt(FGHz) dB for the female connector and 0.1 dB for the male connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 12 in [304.8 mm]

Weight 0.007 lbs [3.18 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 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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female Right Angle to Limited Detent SMP Male Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder in 12 Inch PE3C1495LF-12](#)



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**PE3C1495LF-12**

Repeated Minimum Bend Radius 0.787 in [19.99 mm]

### Connectors

| Description                  | Connector 1            | Connector 2       |
|------------------------------|------------------------|-------------------|
| Type                         | SMP Female Right Angle | SMP Male Bulkhead |
| Specification                | MIL-STD-348A           | MIL-STD-348A      |
| Impedance                    | 50 Ohms                | 50 Ohms           |
| Connection Method            |                        | Limited Detent    |
| Mating Cycles                |                        | 500               |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold       |
| Dielectric Type              | PTFE                   | PTFE              |
| Body Material and Plating    | Beryllium Copper, Gold | Brass, Gold       |

### 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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## SMP Female Right Angle to Limited Detent SMP Male Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder in 12 Inch

### RF Cable Assemblies Technical Data Sheet

**PE3C1495LF-12**

#### How to Order

Part Number Configuration:

**PE3C1495LF**

- **xx**

**uu**

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

Example: PE3C1495LF-12 = 12 inches long cable  
PE3C1495LF-100cm = 100 cm long cable

SMP Female Right Angle to Limited Detent SMP Male Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder in 12 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: [SMP Female Right Angle to Limited Detent SMP Male Bulkhead Cable Using PE-SR405FLJ Coax , LF Solder in 12 Inch PE3C1495LF-12](https://www.pasternack.com/smp-female-right-angle-to-limited-detent-smp-male-bulkhead-cable-using-pe-sr405flj-lf-solder-pe3c1495lf-12-p.aspx)

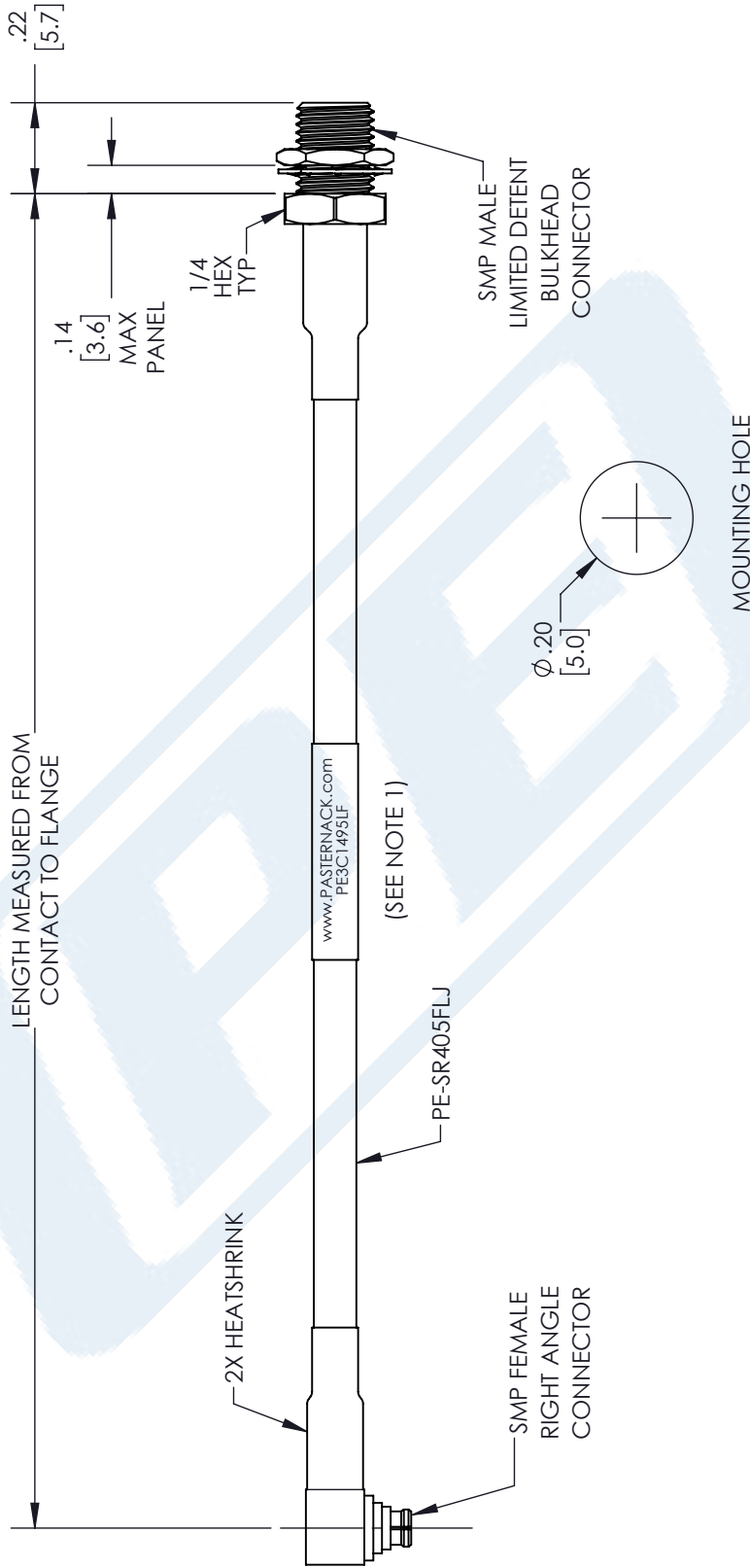
URL: <https://www.pasternack.com/smp-female-right-angle-to-limited-detent-smp-male-bulkhead-cable-using-pe-sr405flj-lf-solder-pe3c1495lf-12-p.aspx>

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.

# PE3C1495LF-12 CAD Drawing

SMP Female Right Angle to Limited Detent SMP Male Bulkhead  
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| 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

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
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| TOLERANCES:<br><div>X = ± .2 [5.08]<br/>.XX = ± .02 [.51]<br/>.XXX = ± .005 [.13]</div> <div>FRACTIONS<br/>± 1/32<br/>ANGLES ± 1°</div>                                                                                                                             |  | ITEM NO. PE3C1495LF                                                                                                                                                                                                                                                                                                                                                                                                                       |  | REV A                                                                                                                                                                                                                                                                                                      |  |
| CABLE LENGTH (L) TOLERANCES:<br><div>L ≤ 12 [305] = ± .1 [25] / -0<br/>12 [305] &lt; L ≤ 60 [1524] = ± .2 [51] / -0<br/>60 [1524] &lt; L ≤ 120 [3048] = ± .4 [102] / -0<br/>120 [3048] &lt; L ≤ 300 [7620] = ± .6 [152] / -0<br/>300 [7620] &lt; L = +5% / -0</div> |  | SIZE A                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | CAGE CODE 53919                                                                                                                                                                                                                                                                                            |  |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                                                                                                                                                                                     |  | DRAWN BY BPUCHASKI                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                            |  |