



Push-On SMP Female to SMP Female Right Angle  
Cable 18 Inch Using PE-SR405FLJ Coax

**RF Cable Assemblies Technical Data Sheet**

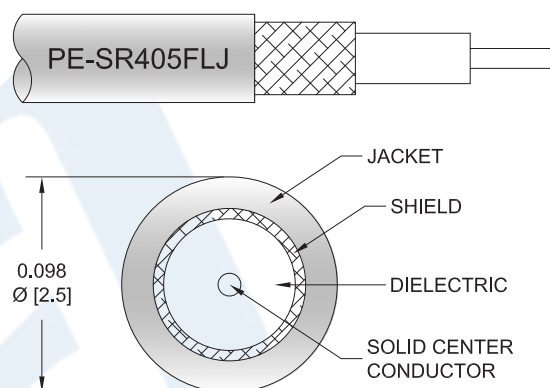
**PE3W08326-18**

**Configuration**

- Connector 1: Push-OnSMP Female
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR405FLJ

**Features**

- Max Frequency 8 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W08326-18 SMP female push-on to SMP female right angle 18 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 female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W08326-18 SMP female to SMP female cable assembly operates to 8 GHz. The right angle SMP interface on the PE-SR405FLJ cable allows for easier connections in tight spaces.

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: [Push-On SMP Female to SMP Female Right Angle Cable 18 Inch Using PE-SR405FLJ Coax PE3W08326-18](#)



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**PE3W08326-18**

#### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units           |
|-------------------------------|---------|---------------|---------|-----------------|
| Frequency Range               | DC      |               | 8       | GHz             |
| VSWR                          |         |               | 1.27:1  |                 |
| 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    | 2    | 4    | 8    | GHz   |
| Insertion Loss (Max.) | 0.33 | 0.64 | 0.76 | 1.01 | 1.37 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1 dB per SMP female connector and 0.2 dB per SMP female right angle connector.

#### Mechanical Specifications

##### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 18 in [457.2 mm]   |
| Diameter | 0.187 in [4.75 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                                  | SMP Female             | SMP Female Right Angle |
| Specification                         | MIL-STD-348A           | MIL-STD-348A           |
| Impedance                             | 50 Ohms                | 50 Ohms                |
| Connection Method                     | Push-On                |                        |
| Contact Material and Plating          | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification         | MIL-DTL-45204          | MIL-DTL-45204          |
| Dielectric Type                       | PTFE                   | PTFE                   |
| Outer Conductor Material and Plating  | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Outer Conductor Plating Specification | MIL-DTL-45204          | MIL-DTL-45204          |
| Body Material and Plating             | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Plating Specification            | MIL-DTL-45204          | MIL-DTL-45204          |

### 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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**RF Cable Assemblies Technical Data Sheet**

**PE3W08326-18**

**How to Order**

Part Number Configuration:

**PE3W08326**

- **xx**

**uu**

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

Example: PE3W08326-12 = 12 inches long cable  
PE3W08326-100cm = 100 cm long cable

Push-On SMP Female to SMP Female Right Angle Cable 18 Inch 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: [Push-On SMP Female to SMP Female Right Angle Cable 18 Inch Using PE-SR405FLJ Coax PE3W08326-18](https://www.pasternack.com/smp-female-smp-female-pe-sr405flj-cable-assembly-pe3w08326-18-p.aspx)

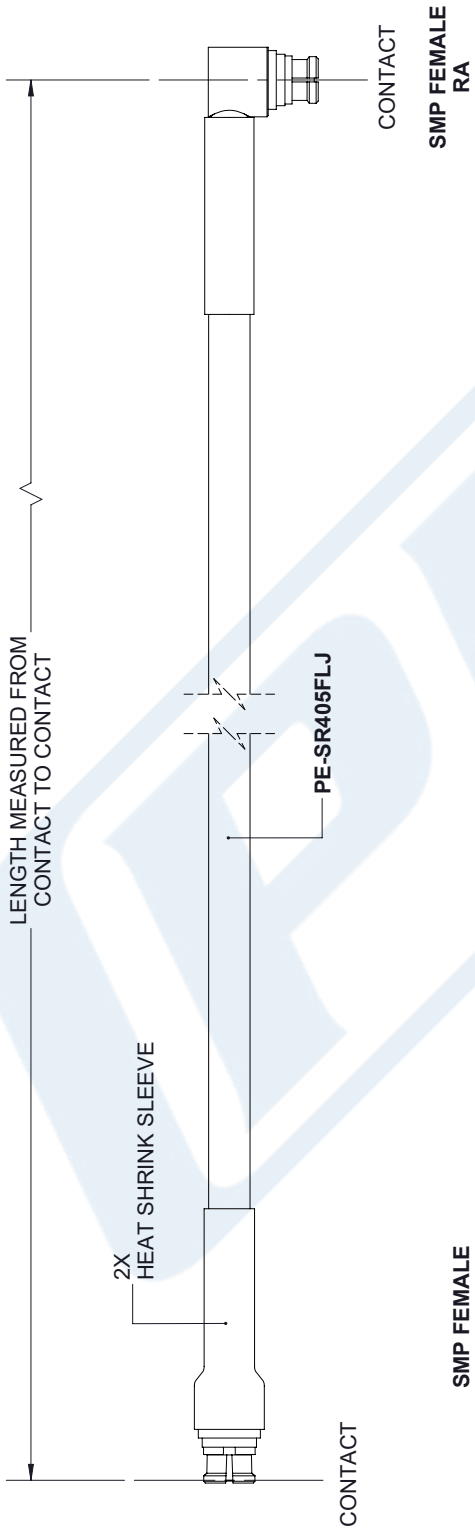
URL: <https://www.pasternack.com/smp-female-smp-female-pe-sr405flj-cable-assembly-pe3w08326-18-p.aspx>

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.

PE3W08326-18 CAD Drawing

Push-On SMP Female to SMP Female Right Angle  
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| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 1/24/2020 | SELLIS   |



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

**TOLERANCES:**

|               |        |             |
|---------------|--------|-------------|
| .X = ± .2     | [5.08] | FRACTIONS   |
| .XX = ± .02   | [.51]  | ± 1/32      |
| .XXX = ± .005 | [.13]  | ANGLES ± 1° |

**CABLE LENGTH (L) TOLERANCES:**

|                             |                 |
|-----------------------------|-----------------|
| 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% L / -0    |

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
an INFINITI brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

|      |           |          |           |
|------|-----------|----------|-----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO.  |
| A    | 53919     | K.DANG   | PE3W08326 |
| REV  |           |          | A         |

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