

## Mini SMP Female Right Angle to SMA Male Cable Using PE-SR405FLJ Coax

### PE3W12289



#### Configuration

- Connector 1: Mini SMP Female Right Angle
- Connector 2: SMA Male
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W12289 Mini SMP female right angle to SMA male 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 Mini SMP to SMA cable assembly has a female to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W12289 Mini SMP female to SMA male cable assembly operates to 20 GHz. The right angle Mini 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.

#### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units                 |
|-------------------------------|---------|---------------|---------|-----------------------|
| Frequency Range               | DC      |               | 20      | 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] |         | Ohms/1000ft [Ohms/Km] |

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**PE3W12289**



### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units                 |
|-------------------------------|---------|--------------|---------|-----------------------|
| DC Resistance Outer Conductor |         | 10.2 [33.46] |         | Ohms/1000ft [Ohms/Km] |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 1    | 2    | 4.5  | 9    | 20   | GHz   |
| Insertion Loss (Typ.) | 0.22 | 0.3  | 0.5  | 0.75 | 1.2  | dB/ft |
|                       | 0.72 | 0.98 | 1.64 | 2.46 | 3.94 | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.04XSQRT(FGHz) dB for the male connector and 0.05XSQRT(FGHz) dB for the female connector.

### Mechanical Specifications

#### Cable Assembly

|                |                    |
|----------------|--------------------|
| Width/Diameter | 0.5 in [12.7 mm]   |
| Weight         | 0.028 lbs [12.7 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 1 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]           |

Mini SMP Female Right Angle to SMA Male  
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Connectors

| Description                          | Connector 1                 | Connector 2            |
|--------------------------------------|-----------------------------|------------------------|
| Type                                 | Mini SMP Female Right Angle | SMA Male               |
| Specification                        | MIL-STD-348A                |                        |
| Impedance                            | 50 Ohms                     | 50 Ohms                |
| Configuration                        | Right Angle                 | Straight               |
| Mating Cycles                        |                             | 500                    |
| Contact Material and Plating         | Beryllium Copper, Gold      | Beryllium Copper, Gold |
| Contact Plating Specification        |                             | ASTM-B488              |
| Dielectric Type                      | PTFE                        | PTFE                   |
| Outer Conductor Material and Plating | Beryllium Copper, Gold      |                        |
| Body Material and Plating            | Brass, Gold                 | Beryllium Copper, Gold |
| Body Plating Specification           |                             | ASTM-B488              |
| Coupling Nut Material and Plating    |                             | Steel                  |
| Torque                               |                             | 7 in-lbs 0.79 Nm       |

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

Plotted and Other Data

Notes:

# Mini SMP Female Right Angle to SMA Male Cable Using PE-SR405FLJ Coax



**PE3W12289**

## Typical Performance Data

## How to Order

Part Number Configuration:

PE3W12289

- XX

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- Unit of Measure:  
cm = Centimeters  
<blank> = Inches

- Length

- Base Number

Example: PE3W12289-12 = 12 inches long cable  
PE3W12289-100cm = 100 cm long cable

Mini SMP Female Right Angle to SMA Male Cable 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: [Mini SMP Female Right Angle to SMA Male Cable Using PE-SR405FLJ Coax PE3W12289](#)

URL: <https://www.pasternack.com/mini-smp-female-right-angle-to-sma-male-cable-using-pe-sr405flj-pe3w12289-p.aspx>

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PE3W12289 CAD Drawing
Mini SMP Female Right Angle to SMA Male Cable Using PE-SR405FLJ Coax

