

## SMP Plug Right Angle Non-Magnetic Connector Crimp/Solder Attachment for RG316

### PE45882



#### Configuration

- SMP Plug Connector
- 50 Ohms
- Right Angle Body Geometry
- Crimp/Solder Method
- Connector Interface Types: RG316
- Non-Magnetic Design

#### Features

- Magnetic Susceptibility 10<sup>-5</sup>Max. Operating Frequency 12.4 GHz
- Excellent VSWR of 1.25:1
- Gold over Copper Plated Beryllium Copper Contact
- Blind Mate Connector
- Magnetic Susceptibility 10<sup>-5</sup>

#### Applications

- Medical
- Military and Aerospace
- Quantum ComputingGeneral Purpose Test
- Custom Cable Assemblies
- Medical
- Military and Aerospace
- Quantum Computing

#### Description

Pasternack's Non Magnetic connectors are manufactured with materials that are especially adapted to non magnetism. Our non-magnetic connectors have a susceptibility of around 10<sup>-5</sup>, as opposed to 10<sup>-2</sup> for standard connectors made of brass/nickel materials. As a result, our non-magnetic connectors are transparent to the magnetic field, which means no field distortion and a higher Signal-to-Noise Ratio (SNR).Pasternack's PE45882 Right Angle, SMP, Non-Magnetic, Connector is part of our full line of RF components available for same-day shipping. Our SMP plug connector operates up to a maximum frequency of 12.4 GHz and offers excellent VSWR of 1.25:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated. Its right angle body geometry allows for easier connections in tight spaces. Pasternack's Non Magnetic connectors are manufactured with materials that are especially adapted to non magnetism. Our non-magnetic connectors have a susceptibility of around 10<sup>-5</sup>, as opposed to 10<sup>-2</sup> for standard connectors made of brass/nickel materials. As a result, our non-magnetic connectors are transparent to the magnetic field, which means no field distortion and a higher Signal-to-Noise Ratio (SNR).

Our SMP plug right angle connector PE45882 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 12.4    | GHz   |
| VSWR                                 |         |         | 1.25:1  |       |
| Insertion Loss                       |         |         | 0.12    | dB    |
| Operating Voltage (AC)               |         |         | 250     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 750     | Vrms  |
| Insulation Resistance                | 5,000   |         |         | MOhms |
| RF Leakage                           | 55      |         |         | dB    |

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#### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------|---------|---------|---------|-------|
| Impedance   |         | 50      |         | Ohms  |

#### Mechanical Specifications

##### Size

|               |                      |
|---------------|----------------------|
| Length        | 0.41732 in [10.6 mm] |
| Width         | 0.11417 in [2.90 mm] |
| Height        | 0.11417 in [2.9 mm]  |
| Weight        | 0.00108 lbs [0.49 g] |
| Mating Cycles | 500 Cycles           |

SMP Plug Right Angle Non-Magnetic Connector  
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Material Specifications

| Description | Material         | Plating               |
|-------------|------------------|-----------------------|
| Contact     | Beryllium Copper | Gold over Copper      |
| Body        | Bronze           | Copper-Tin-Zinc Alloy |

Environmental Specifications

|                 |                   |
|-----------------|-------------------|
| Temperature     |                   |
| Operating Range | -55 to +125 deg C |

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

Plotted and Other Data

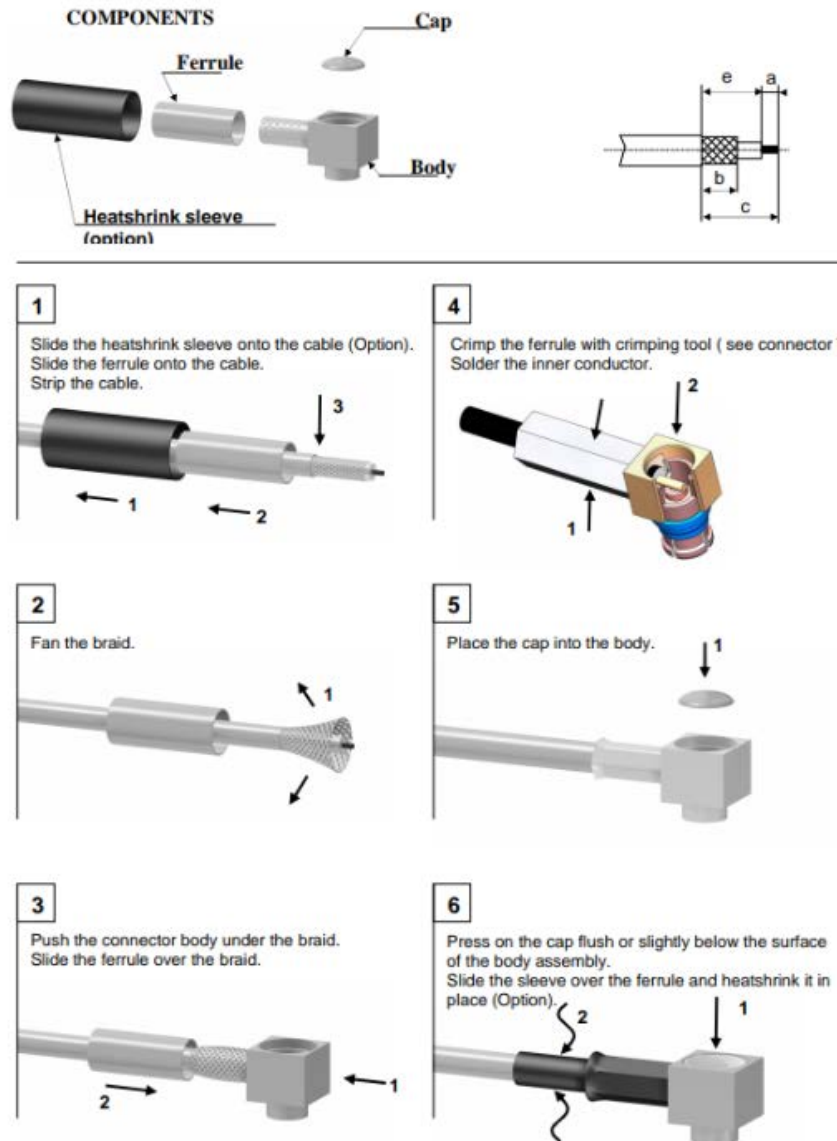
Notes:

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**PE45882**



### Assembly Instruction



## SMP Plug Right Angle Non-Magnetic Connector Crimp/Solder Attachment for RG316



**PE45882**

SMP Plug Right Angle Non-Magnetic Connector Crimp/Solder Attachment for RG316 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 Plug Right Angle Non-Magnetic Connector Crimp/Solder Attachment for RG316 PE45882](https://www.pasternack.com/smp-plug-rg316-connector-pe45882-p.aspx)

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The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE45882 CAD Drawing
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