

SMA Female to Push-On SMP Female  
Right Angle Cable Using RG316 Coax

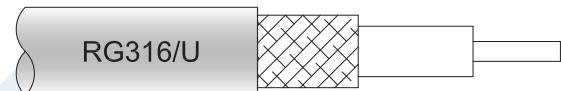


**RF Cable Assemblies Technical Data Sheet**

**PE3C3586**

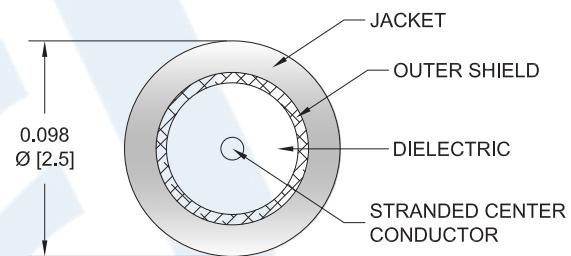
**Configuration**

- Connector 1: SMA Female
- Connector 2: Push-On SMP Female Right Angle
- Cable Type: RG316



**Features**

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C3586 SMA female to SMP female push-on right angle cable using RG316 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to SMP cable assembly has a female to female gender configuration with 50 ohm flexible RG316 coax. The PE3C3586 SMA female to SMP female cable assembly operates to 3 GHz. The right angle SMP interface on the RG316 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: [SMA Female to Push-On SMP Female Right Angle Cable Using RG316 Coax PE3C3586](#)



## SMA Female to Push-On SMP Female Right Angle Cable Using RG316 Coax

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#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 3       | GHz             |
| VSWR                          |         |              | 1.4:1   |                 |
| Velocity of Propagation       |         | 69           |         | %               |
| Capacitance                   |         | 29.4 [96.46] |         | pF/ft [pF/m]    |
| DC Resistance Inner Conductor |         | 8.41 [27.59] |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |              | 2,000   | Vrms            |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 3    | GHz   |
| Insertion Loss (Typ.) | 0.11 | 0.16 | 0.23 | 0.38 | 0.58 | dB/ft |
|                       | 0.36 | 0.52 | 0.75 | 1.25 | 1.9  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.024 lbs [10.89 g]

##### Cable

Cable Type RG316  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.102 in [2.59 mm]

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#### Connectors

| Description                           | Connector 1            | Connector 2            |
|---------------------------------------|------------------------|------------------------|
| Type                                  | SMA Female             | SMP Female Right Angle |
| Specification                         | MIL-STD-348            | MIL-STD-348A           |
| Impedance                             | 50 Ohms                | 50 Ohms                |
| Connection Method                     |                        | Push-On                |
| Mating Cycles                         | 100                    |                        |
| Contact Material and Plating          | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification         |                        | 3 $\mu$ in. minimum    |
| Dielectric Type                       | PTFE                   | Teflon                 |
| Outer Conductor Material and Plating  | Brass, Nickel          | Beryllium Copper, Gold |
| Outer Conductor Plating Specification |                        | 3 $\mu$ in. minimum    |
| Body Material and Plating             | Brass, Nickel          | Brass, Gold            |
| Body Plating Specification            |                        | 3 $\mu$ in. minimum    |

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +165 deg C

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

#### Plotted and Other Data

Notes:

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## SMA Female to Push-On SMP Female Right Angle Cable Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C3586**

#### How to Order

Part Number Configuration:

**PE3C3586**- **xx****uu**

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

Length  
Base Number

Example: PE3C3586-12 = 12 inches long cable  
PE3C3586-100cm = 100 cm long cable

SMA Female to Push-On SMP Female Right Angle Cable Using RG316 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: [SMA Female to Push-On SMP Female Right Angle Cable Using RG316 Coax PE3C3586](#)

URL: <https://www.pasternack.com/sma-female-to-push-on-smp-female-cable-using-rg316-pe3c3586-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.

# PE3C3586 CAD Drawing

SMA Female to Push-On SMP Female Right Angle Cable Using RG316 Coax

