

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



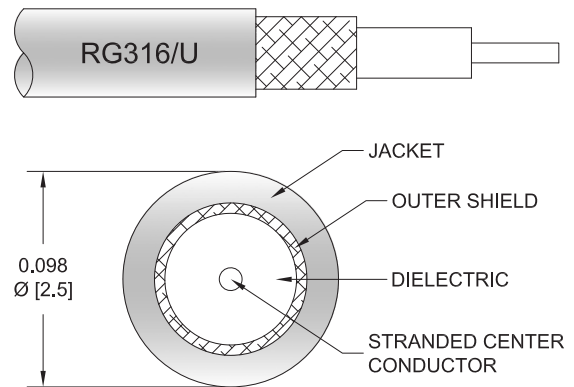
### PE3W05056/HS

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: Push-On SMP Female Right Angle
- Cable Type: RG316
- Coax Flex Type: Flexible

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W05056/HS SMA male right angle 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 male to female gender configuration with 50 ohm flexible RG316 coax. The PE3W05056/HS SMA male to SMP female cable assembly operates to 3 GHz. The right angle SMA and right angle SMP interfaces on the RG316 cable allow 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      |         | 3       | GHz   |
| VSWR                    |         |         | 1.4:1   |       |
| Velocity of Propagation |         | 69      |         | %     |
| Operating Voltage (AC)  |         |         | 335     | Vrms  |
| Jacket Spark            |         |         | 2,000   | Vrms  |

#### Specifications by Frequency

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| Part Number     | Length                   | Description           | F1   | F2   | F3    | F4   | F5   | Units | Weight (lbs) |
|-----------------|--------------------------|-----------------------|------|------|-------|------|------|-------|--------------|
|                 |                          | Frequency             | 100  | 250  | 500   | 1000 | 3000 | MHz   |              |
| PE3W05056/HS    | Custom Lengths Available | Insertion Loss (Typ.) | 0.11 | 0.16 | 0.238 | 0.38 | 0.58 | dB/ft |              |
|                 |                          |                       | 0.37 | 0.53 | 0.79  | 1.25 | 1.91 | dB/m  |              |
| PE3W05056/HS-12 | 12 inch                  | Insertion Loss (Typ.) | 0.51 | 0.56 | 0.64  | 0.78 | 0.98 | dB    | 0.034        |
| PE3W05056/HS-24 | 24 inch                  | Insertion Loss (Typ.) | 0.62 | 0.72 | 0.88  | 1.16 | 1.56 | dB    | 0.045        |
| PE3W05056/HS-36 | 36 inch                  | Insertion Loss (Typ.) | 0.73 | 0.88 | 1.12  | 1.54 | 2.14 | dB    | 0.055        |
| PE3W05056/HS-48 | 48 inch                  | Insertion Loss (Typ.) | 0.84 | 1.04 | 1.36  | 1.92 | 2.72 | dB    | 0.065        |
| PE3W05056/HS-72 | 72 inch                  | Insertion Loss (Typ.) | 1.06 | 1.36 | 1.83  | 2.68 | 3.88 | dB    | 0.085        |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

|                             |                |
|-----------------------------|----------------|
| Loss due to Connector 1:    | 0.2 dB         |
| Loss due to Connector 2:    | 0.2 dB         |
| Base Weight:                | 0.034 pounds   |
| Additional Weight per Inch: | 0.00084 pounds |

### Mechanical Specifications

#### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.033 lbs [14.97 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 Male Right Angle | SMP Female Right Angle |
| Specification                         | MIL-STD-348A         | MIL-STD-348A           |
| Impedance                             | 50 Ohms              | 50 Ohms                |
| Configuration                         | Right Angle          | Right Angle            |
| Connection Method                     |                      | Push-On                |
| Contact Material and Plating          | Brass, Gold          | Beryllium Copper, Gold |
| Contact Plating Specification         | 50 µin minimum       | 30µ in. minimum        |
| Dielectric Type                       | PTFE                 | Teflon                 |
| Outer Conductor Material and Plating  |                      | Beryllium Copper, Gold |
| Outer Conductor Plating Specification |                      | 3µ in. minimum         |
| Body Material and Plating             | Brass, Nickel        | Brass, Gold            |
| Body Plating Specification            | 100 µin minimum      | 3µ in. minimum         |
| Coupling Nut Material and Plating     | Brass, Nickel        |                        |
| Coupling Nut Plating Specification    | 100 µin minimum      |                        |
| Hex Size                              | 5/16 inch            |                        |
| Torque                                | 3 in-lbs 0.34 Nm     |                        |

#### Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

#### Plotted and Other Data

Notes:

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### PE3W05056/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W05056/HS**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W05056/HS-12 = 12 inches long cable  
PE3W05056/HS-100cm = 100 cm long cable

SMA Male Right Angle to Push-On SMP Female Right Angle Cable Using RG316 Coax with HeatShrink 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 Male Right Angle to Push-On SMP Female Right Angle Cable Using RG316 Coax with HeatShrink PE3W05056/HS](https://www.pasternack.com/sma-male-right-angle-to-push-on-smp-female-cable-using-rg316-with-heatshrink-pe3w05056-hs-p.aspx)

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PE3W05056/HS CAD Drawing

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