

## SMA Male Right Angle to SMA Female Bulkhead Cable Using RG316-DS Coax with HeatShrink

### PE34061/HS



#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Female Bulkhead
- Cable Type: RG316-DS
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE34061/HS SMA male right angle to SMA female bulkhead cable using RG316-DS 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 SMA cable assembly has a male to female gender configuration with 50 ohm flexible RG316-DS coax. The PE34061/HS SMA male to SMA female cable assembly operates to 3 GHz. The right angle SMA interface on the RG316-DS cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 |         | 70           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |

#### 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   |              |
| PE34061/HS    | Custom Lengths Available | Insertion Loss (Typ.) | 0.08 | 0.13 | 0.194 | 0.29 | 0.535 | dB/ft |              |
|               |                          |                       | 0.27 | 0.42 | 0.64  | 0.96 | 1.76  | dB/m  |              |
| PE34061/HS-6  | 6 inch                   | Insertion Loss (Typ.) | 0.35 | 0.37 | 0.4   | 0.45 | 0.57  | dB    | 0.032        |
| PE34061/HS-12 | 12 inch                  | Insertion Loss (Typ.) | 0.39 | 0.43 | 0.5   | 0.59 | 0.84  | dB    | 0.039        |
| PE34061/HS-24 | 24 inch                  | Insertion Loss (Typ.) | 0.47 | 0.56 | 0.69  | 0.88 | 1.37  | dB    | 0.054        |
| PE34061/HS-36 | 36 inch                  | Insertion Loss (Typ.) | 0.55 | 0.69 | 0.89  | 1.17 | 1.91  | dB    | 0.068        |
| PE34061/HS-48 | 48 inch                  | Insertion Loss (Typ.) | 0.63 | 0.82 | 1.08  | 1.46 | 2.44  | dB    | 0.082        |

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:    | 0.1 dB         |
| Base Weight:                | 0.039 pounds   |
| Additional Weight per Inch: | 0.00117 pounds |

### Mechanical Specifications

#### Cable Assembly

|        |                     |
|--------|---------------------|
| Weight | 0.039 lbs [17.69 g] |
|--------|---------------------|

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG316-DS                   |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.114 in [2.9 mm]          |
| One Time Minimum Bend Radius         | 0.59 in [14.99 mm]         |

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#### Connectors

| Description                        | Connector 1          | Connector 2            |
|------------------------------------|----------------------|------------------------|
| Type                               | SMA Male Right Angle | SMA Female Bulkhead    |
| Specification                      | MIL-STD-348A         |                        |
| Impedance                          | 50 Ohms              | 50 Ohms                |
| Configuration                      | Right Angle          | Straight               |
| Contact Material and Plating       | Brass, Gold          | Beryllium Copper, Gold |
| Contact Plating Specification      | 50 µin minimum       | QQ-C-530               |
| Dielectric Type                    | PTFE                 | Teflon                 |
| Body Material and Plating          | Brass, Nickel        | Brass, Nickel          |
| Body Plating Specification         | 100 µin minimum      | QQ-B-626               |
| Coupling Nut Material and Plating  | Brass, Nickel        |                        |
| Coupling Nut Plating Specification | 100 µin minimum      |                        |
| Hex Size                           | 5/16 in              |                        |
| Torque                             | 5 in-lbs 0.57 Nm     |                        |

#### Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

#### Plotted and Other Data

Notes:

## SMA Male Right Angle to SMA Female Bulkhead Cable Using RG316-DS Coax with HeatShrink



### PE34061/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE34061/HS - xx uu**

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

Length

Base Number

Example: PE34061/HS-12 = 12 inches long cable  
PE34061/HS-100cm = 100 cm long cable

SMA Male Right Angle to SMA Female Bulkhead Cable Using RG316-DS 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.

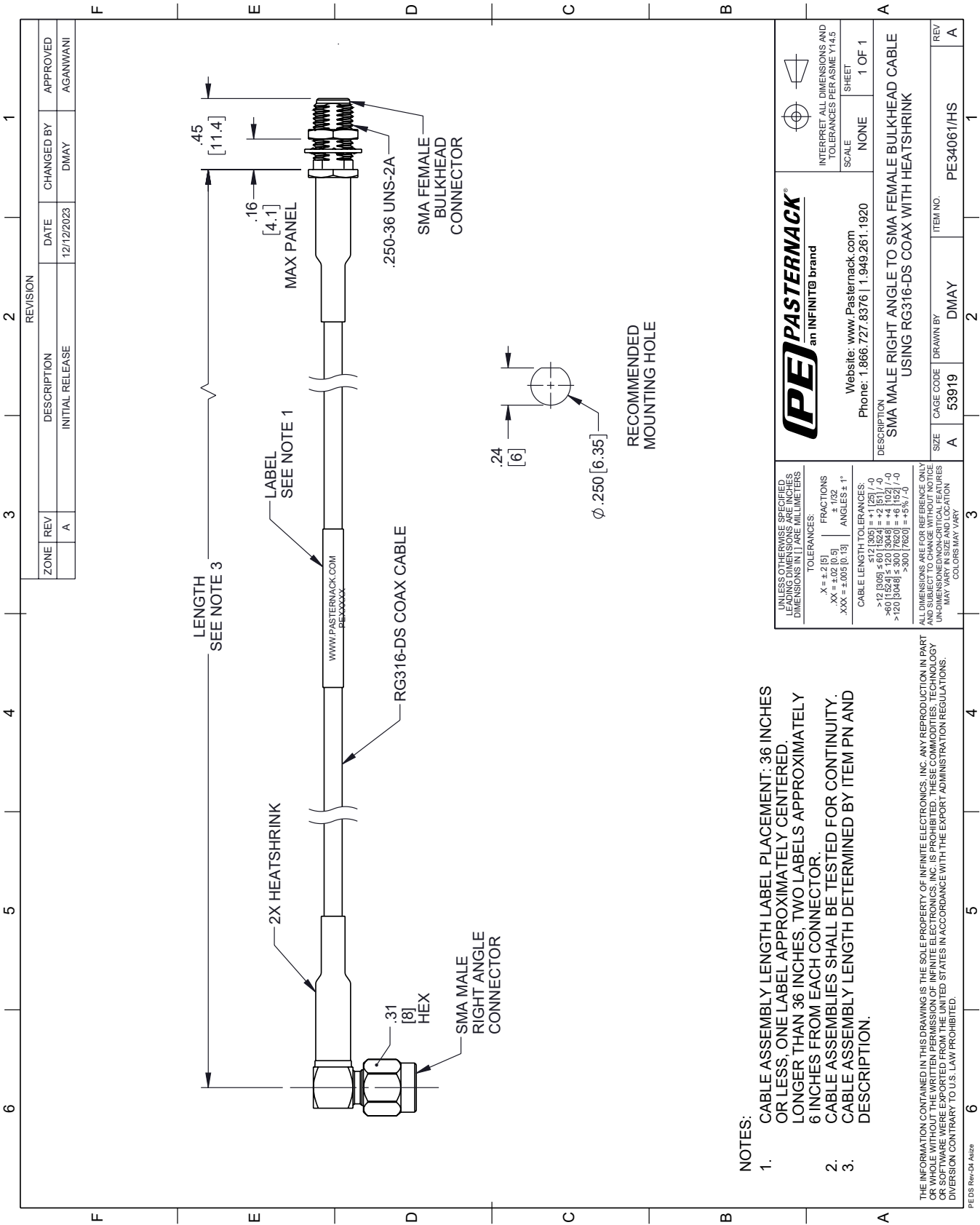
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMA Female Bulkhead Cable Using RG316-DS Coax with HeatShrink PE34061/HS](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-sma-female-bulkhead-cable-using-rg316-ds-with-heatshrink-pe34061-hs-p.aspx>

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.

PE34061/HS CAD Drawing

SMA Male Right Angle to SMA Female Bulkhead Cable Using RG316-DS Coax with HeatShrink



| ZONE | REV | DESCRIPTION     | DATE       | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
|      | A   | INITIAL RELEASE | 12/12/2023 | DMAY       | AGANWANI |

|                                                                                                               |  |                                                                                     |  |
|---------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| <br>an INFINIT® brand      |  |  |  |
| Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a><br>Phone: 1.866.727.8376   1.949.261.1920 |  | SCALE: NONE<br>SHEET: 1 OF 1                                                        |  |
| DESCRIPTION<br>SMA MALE RIGHT ANGLE TO SMA FEMALE BULKHEAD CABLE<br>USING RG316-DS COAX WITH HEATSHRINK       |  | REV: A                                                                              |  |
| SIZE: A                                                                                                       |  | ITEM NO. PE34061/HS                                                                 |  |
| CAGE CODE: 53919                                                                                              |  | DRAWN BY: DMAY                                                                      |  |

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

TOLERANCES:

FRACTIONS: .XX = ±.02 [0.5] ±.132 ANGLES ± 1°

XX = ±.005 [0.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤ 12 [305] = ±.1 [25] / -0

> 12 [305] ≤ 60 [1524] = ±.2 [51] / -0

> 60 [1524] ≤ 300 [7620] = ±.4 [102] / -0

> 300 [7620] = ±.5 [127] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.