



## Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W08176**

#### Configuration

- Connector 1: Limited DetentSMP Male Bulkhead
- Connector 2: SMP Female Right Angle
- Cable Type: RG405

#### Features

- Max Frequency 18 GHz

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W08176 SMP male limited detent bulkhead to SMP female right angle cable using RG405 coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMP to SMP cable assembly has a male to female gender configuration with 50 ohm semi-rigid RG405 coax. The PE3W08176 SMP male to SMP female cable assembly operates to 18 GHz. The right angle SMP interface on the RG405 cable allows for easier connections in tight spaces. Our RF cable assembly with SMP 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.

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      |         | 18      | GHz   |
| VSWR            |         |         | 1.4:1   |       |

#### Specifications by Frequency

| Description           | F1   | F2    | F3    | F4    | F5   | Units |
|-----------------------|------|-------|-------|-------|------|-------|
| Frequency             | 1    | 2     | 4.5   | 9     | 18   | GHz   |
| Insertion Loss (Typ.) | 0.22 | 0.284 | 0.445 | 0.735 | 1.12 | dB/ft |
|                       | 0.72 | 0.93  | 1.46  | 2.41  | 3.67 | dB/m  |

Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax PE3W08176](#)



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Right Angle Cable Using RG405 Coax

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Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 for the SMP Female connector and  $0.05 \times \sqrt{\text{fGHz}}$  dB for the SMP Male connector.

**Mechanical Specifications**

**Cable Assembly**

Weight 0.048 lbs [21.77 g]

**Cable**

Cable Type RG405  
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 Material and Plating Copper

Repeated Minimum Bend Radius 0.05 in [1.27 mm]

**Connectors**

| Description                   | Connector 1       | Connector 2            |
|-------------------------------|-------------------|------------------------|
| Type                          | SMP Male Bulkhead | SMP Female Right Angle |
| Specification                 | MIL-STD-348A      | MIL-STD-348            |
| Impedance                     | 50 Ohms           | 50 Ohms                |
| Connection Method             | Limited Detent    |                        |
| Mating Cycles                 | 500               |                        |
| Contact Material and Plating  | Brass, Gold       | Beryllium Copper, Gold |
| Contact Plating Specification |                   | MIL-G-45204            |
| Dielectric Type               | PTFE              | PTFE                   |
| Body Material and Plating     | Brass, Gold       | Beryllium Copper, Gold |
| Body Plating Specification    |                   | MIL-G-45204            |

**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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**PE3W08176**

#### How to Order

Part Number Configuration:

**PE3W08176**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3W08176-12 = 12 inches long cable  
PE3W08176-100cm = 100 cm long cable

Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 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.

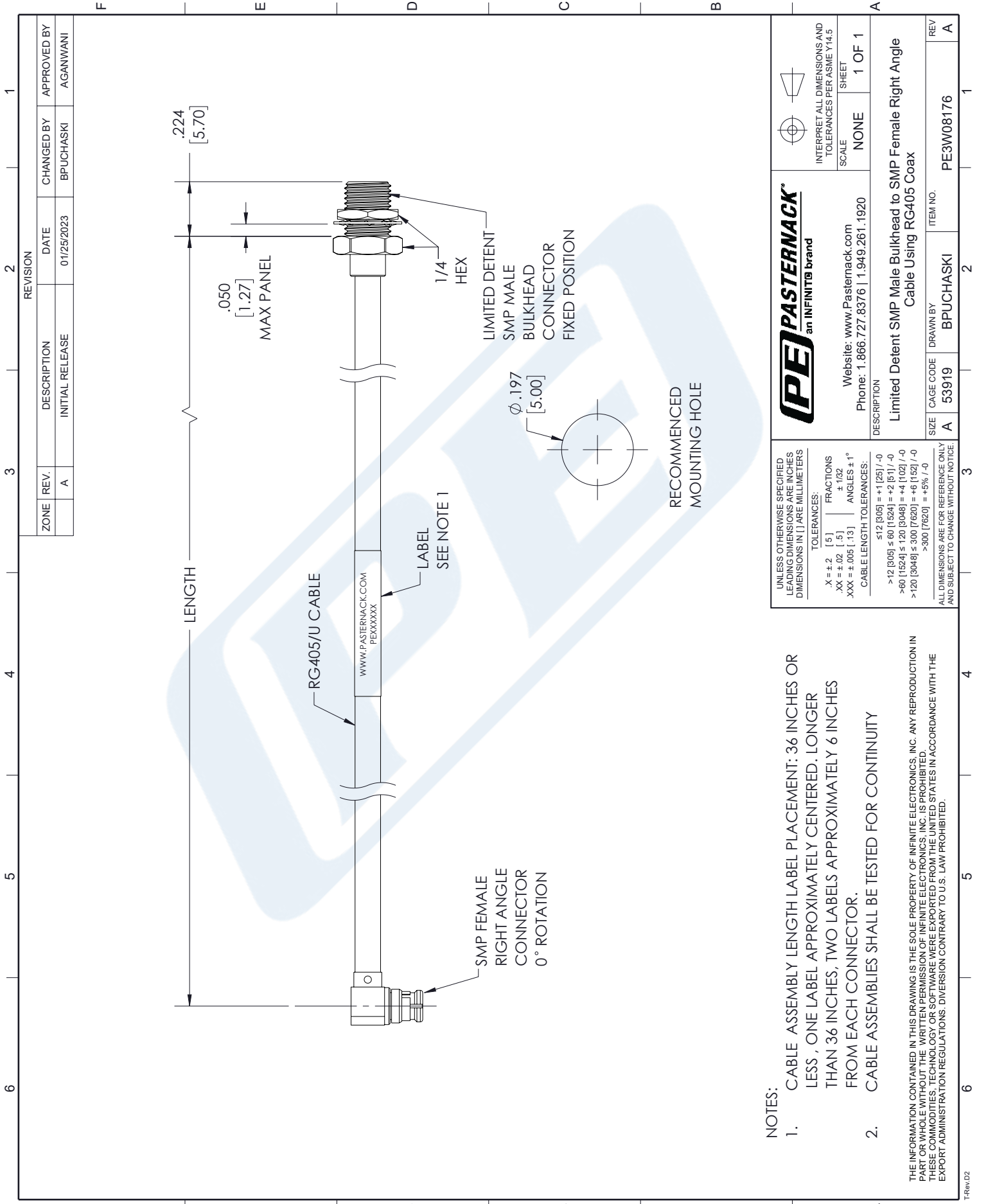
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax PE3W08176](https://www.pasternack.com/limited-detent-smp-male-bulkhead-to-smp-female-cable-using-rg405-pe3w08176-p.aspx)

URL: <https://www.pasternack.com/limited-detent-smp-male-bulkhead-to-smp-female-cable-using-rg405-pe3w08176-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.

# PE3W08176 CAD Drawing

Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax



## NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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|                                                                                                               |                                                        |           |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------|
| <b>PE PASTERNAK</b><br>an INFINITO brand                                                                      | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 |           |
|                                                                                                               | SCALE                                                  | SHEET     |
| Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a><br>Phone: 1.866.727.8376   1.949.261.1920 | NONE                                                   | 1 OF 1    |
| DESCRIPTION<br>Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax              |                                                        |           |
| SIZE                                                                                                          | CAGE CODE                                              | ITEM NO.  |
| A                                                                                                             | 53919                                                  | BPUCHASKI |
| REV                                                                                                           | REV                                                    |           |
| A                                                                                                             | PE3W08176                                              |           |