



## N Female Bulkhead to SMA Male Right Angle Cable 50 cm Length Using PE-P195 Coax

### RF Cable Assemblies Technical Data Sheet

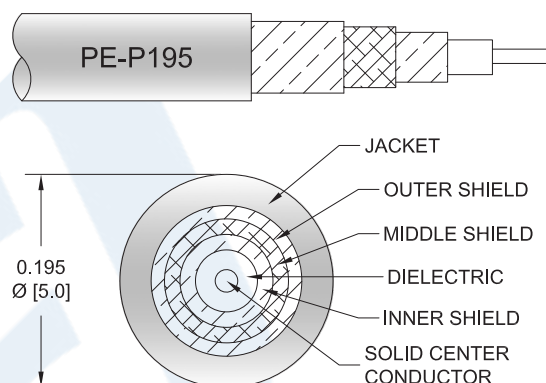
PE3W06405-50CM

#### Configuration

- Connector 1: N Female Bulkhead
- Connector 2: SMA Male Right Angle
- Cable Type: PE-P195

#### Features

- Max Frequency 4 GHz
- 70% Phase Velocity
- Triple Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W06405-50CM type N female bulkhead to SMA male right angle 50 cm cable using PE-P195 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 type N to SMA cable assembly has a female to male gender configuration with 50 ohm flexible PE-P195 coax. The PE3W06405-50CM type N female to SMA male cable assembly operates to 4 GHz. The right angle SMA interface on the PE-P195 cable allows for easier connections in tight spaces. Our RF cable assembly with type N 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 triple 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      |            | 4       | GHz          |
| VSWR                    |         |            | 1.5:1   |              |
| Velocity of Propagation |         | 70         |         | %            |
| Capacitance             |         | 29 [95.14] |         | pF/ft [pF/m] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead to SMA Male Right Angle Cable 50 cm Length Using PE-P195 Coax PE3W06405-50CM](#)



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#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 4    | GHz   |
| Insertion Loss (Max.) | 0.4  | 0.45 | 0.51 | 0.63 | 0.74 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connectro loss.

#### Mechanical Specifications

##### Cable Assembly

Length\* 19.68 in [499.87 mm]

##### Cable

Cable Type PE-P195  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 3  
 Shield Layer 1 Silver Plated Copper Braid  
 Shield Layer 2 Aluminum Tape  
 Shield Layer 3 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.195 in [4.95 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

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**Connectors**

| Description                        | Connector 1       | Connector 2          |
|------------------------------------|-------------------|----------------------|
| Type                               | N Female Bulkhead | SMA Male Right Angle |
| Specification                      |                   | MIL-STD-348A         |
| Impedance                          | 50 Ohms           | 50 Ohms              |
| Contact Material and Plating       |                   | Brass, Gold          |
| Contact Plating Specification      |                   | 50 µin minimum       |
| Dielectric Type                    |                   | PTFE                 |
| Body Material and Plating          | Brass, Nickel     | Brass, Nickel        |
| Body Plating Specification         |                   | 100 µin 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]   |

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", whichever is greater.

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

**Plotted and Other Data**

Notes:

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PE3W06405-50CM

**How to Order**

Part Number Configuration:

**PE3W06405**

- **xx**

**uu**

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

Example: PE3W06405-12 = 12 inches long cable  
PE3W06405-100cm = 100 cm long cable

N Female Bulkhead to SMA Male Right Angle Cable 50 cm Length Using PE-P195 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.

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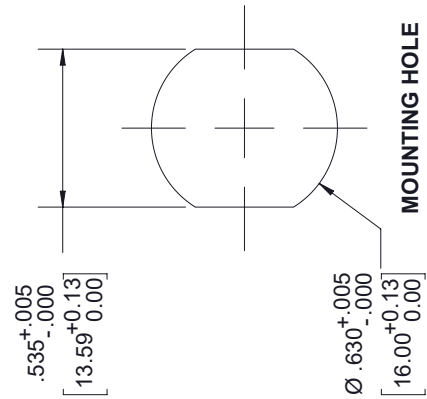
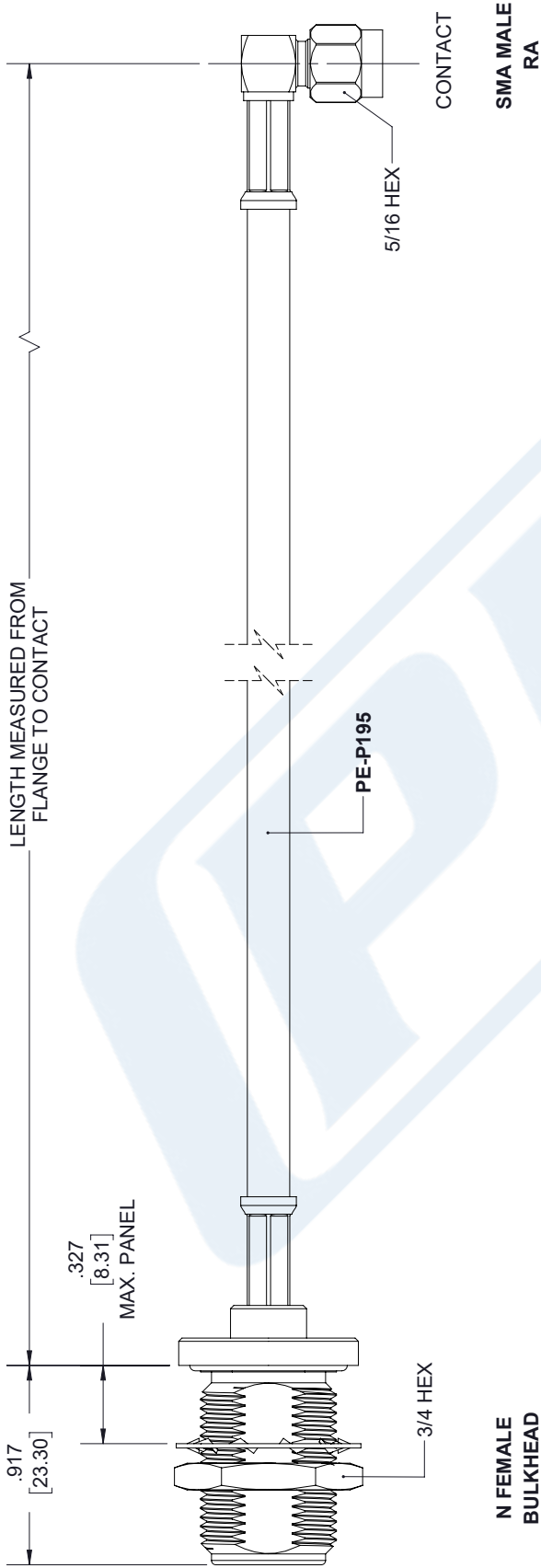
URL: <https://www.pasternack.com/n-female-sma-male-pe-p195-cable-assembly-pe3w06405-50cm-p.aspx>

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# PE3W06405-50CM CAD Drawing

N Female Bulkhead to SMA Male Right Angle Cable 50 cm Length Using PE-P195 Coax

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/23/19 | SELLIS   |



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|---|--|--|
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| SHEET 1 OF 1  |  | SCALE N/A  |
| SIZE A  |  | PART NUMBER PE3W06405  |
| CAGE 53919  |  | DRAWN BY K.DANG  |
| THIRD-ANGLE PROJECTION  |  | REV A  |

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