



2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE45701**

### Configuration

- 2.4mm Male Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405
- 16-May inch Hex

### Features

- Max. Operating Frequency 50 GHz
- Good VSWR of 1.4:1

- Gold over Nickel Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE45701 , 2.4mm, Standard, Connector is part of our full line of RF components available for same-day shipping. Our 2.4mm male connector operates up to a maximum frequency of 50 GHz and offers good VSWR of 1.4:1.

Our 2.4mm male connector PE45701 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | DC      |         | 50      | GHz   |
| VSWR            |         |         | 1.4:1   |       |
| Insertion Loss  |         |         | 0.36    | dB    |
| Impedance       |         | 50      |         | Ohms  |

Electrical Specification Notes:  
Insertion loss:  $0.05 \times \sqrt{f(\text{GHz})}$  dB.

### Mechanical Specifications

|               |                                  |
|---------------|----------------------------------|
| Size          |                                  |
| Length        | 0.88 in [22.35 mm]               |
| Width         | 0.37 in [9.50 mm]                |
| Height        | 0.37 in [9.50 mm]                |
| Weight        | 0.55 lbs [249.48 g]              |
| Mating Cycles | 500 Cycles                       |
| Mating Torque | 8 to 10 in-lbs [0.90 to 1.13 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE45701](#)



## 2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

### RF Connectors Technical Data Sheet

**PE45701**

#### Material Specifications

| Description  | Material                   | Plating                         |
|--------------|----------------------------|---------------------------------|
| Contact      | Beryllium Copper           | Gold over Nickel<br>MIL-G-45204 |
| Insulation   | PPO                        |                                 |
| Body         | Passivated Stainless Steel | ASTM-A380                       |
| Coupling Nut | Passivated Stainless Steel | ASTM-A380                       |

#### Environmental Specifications

##### Temperature

Operating Range

-55 to 100 deg C

Vibration

MIL-STD-202, Method 204, Condition D (20 G's)

Salt Spray

MIL-STD-202, Method 101, Condition B, 5% salt solution

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

#### Plotted and Other Data

Notes:

2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 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.

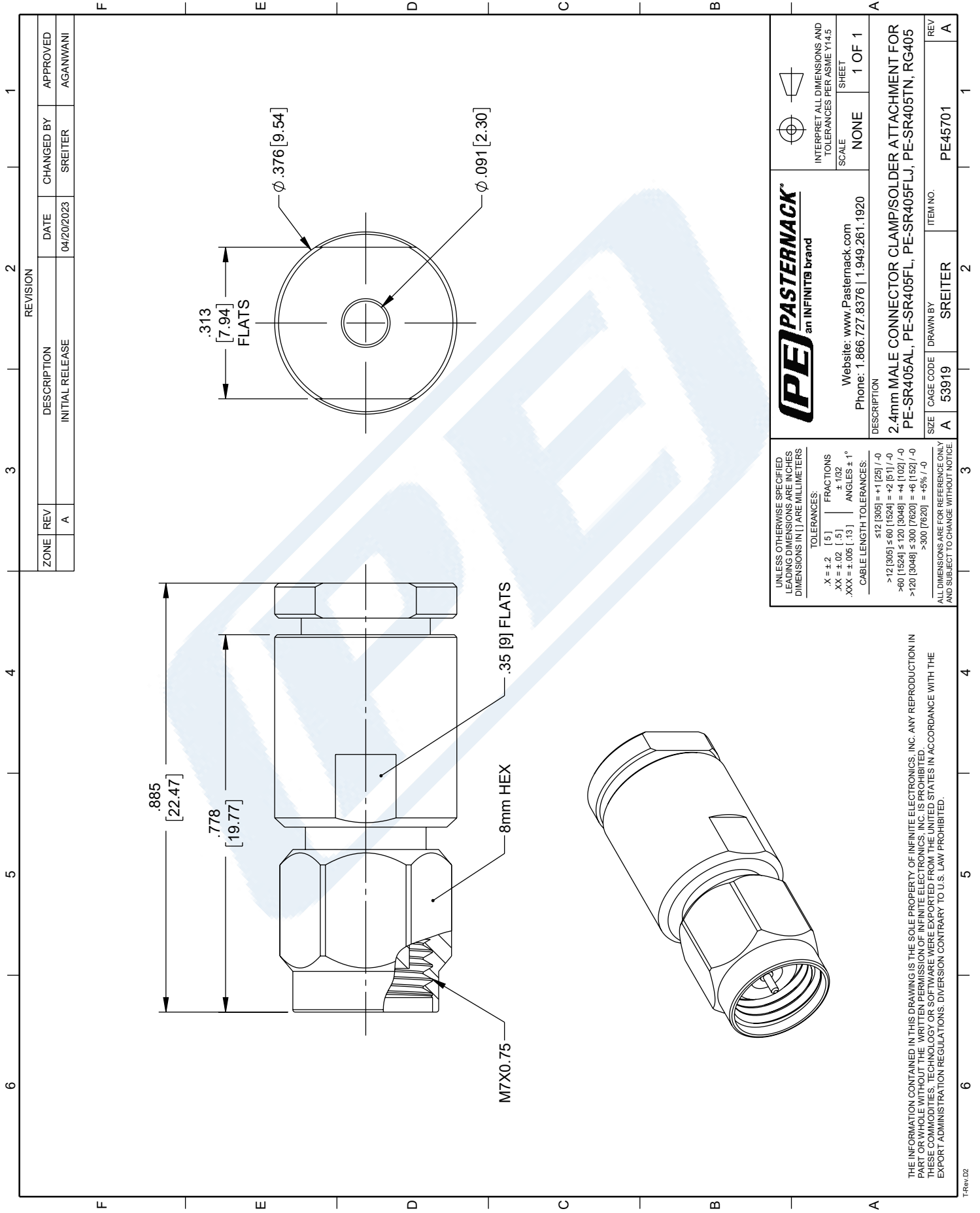
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE45701](#)

URL: <https://www.pasternack.com/2.4mm-male-pe-sr405al-pe-sr405fl-pe-sr405tn-rg405-connector-pe45701-p.aspx>

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# PE45701 CAD Drawing

2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL,  
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405





2.92mm Male Precision Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44796**

### Configuration

- 2.92mm Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR405AL, PE-SR-405FL, PE-SR405FLJ, PE-SR405TN, RG405
- 5/16 inch Hex
- Precision Design

### Features

- Max. Operating Frequency 40 GHz
- Excellent VSWR of 1.18:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

### Applications

- General Purpose Test
- Precision Test & Measurement
- Custom Cable Assemblies

### Description

Pasternack's PE44796 2.92mm male connector with clamp/solder attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN and RG405 is part of our full line of RF components available for same-day shipping. Our 2.92mm male connector operates up to a maximum frequency of 40 GHz and offers excellent VSWR of 1.18:1.

Our 2.92mm male connector PE44796 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

### Electrical Specifications

| Description                            | Minimum | Typical | Maximum | Units |
|----------------------------------------|---------|---------|---------|-------|
| Frequency Range                        | DC      |         | 40      | GHz   |
| VSWR                                   |         |         | 1.18:1  |       |
| Insertion Loss                         |         |         | 0.26    | dB    |
| Operating Voltage (AC)                 |         |         | 170     | Vrms  |
| Dielectric Withstanding Voltage (AC)   |         |         | 500     | Vrms  |
| High Potential Voltage<br>5 to 7.5 MHz |         |         | 325     | Vrms  |
| Corona Discharge<br>at 70,000 ft       |         |         | 125     | Vrms  |
| Insulation Resistance                  | 5,000   |         |         | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male Precision Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44796](#)



2.92mm Male Precision Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44796**

### Performance by Frequency

| Description     | F1       | F2         | F3         | F4 | F5 | Units |
|-----------------|----------|------------|------------|----|----|-------|
| Frequency Range | DC to 18 | 18 to 26.5 | 26.5 to 40 |    |    | GHz   |
| VSWR, Max       | 1.12:1   | 1.14:1     | 1.18:1     |    |    |       |

Electrical Specification Notes:  
Insertion loss:  $0.04 \times \sqrt{f(\text{GHz})}$  dB max.

### Mechanical Specifications

#### Size

|               |                                  |
|---------------|----------------------------------|
| Length        | 0.813 in [20.65 mm]              |
| Width/Dia.    | 0.315 in [8.00 mm]               |
| Weight        | 0.013 lbs [5.9 g]                |
| Mating Cycles | 500 Cycles                       |
| Mating Torque | 8 to 10 in-lbs [0.90 to 1.13 Nm] |

### Material Specifications

| Description  | Material                   | Plating                            |
|--------------|----------------------------|------------------------------------|
| Contact      | Beryllium Copper           | Gold over Nickel<br>50 µin minimum |
| Insulation   | PCTFE                      |                                    |
| Body         | Passivated Stainless Steel | SAE-AMS-2700                       |
| Coupling Nut | Passivated Stainless Steel | SAE-AMS-2700                       |

### Environmental Specifications

#### Temperature

|                 |                                           |
|-----------------|-------------------------------------------|
| Operating Range | -65 to +165 deg C                         |
| Humidity        | MIL-STD-202, Method 106, No Vibration     |
| Shock           | MIL-STD-202, Method 213, Condition I      |
| Vibration       | MIL-STD-202, Method 204, Condition D      |
| Thermal Shock   | MIL-STD-202, Method 107, Condition B      |
| Salt Spray      | MIL-STD-202, Method 101, Condition B (5%) |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male Precision Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44796](#)



2.92mm Male Precision Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44796**

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

### Plotted and Other Data

Notes:

2.92mm Male Precision Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 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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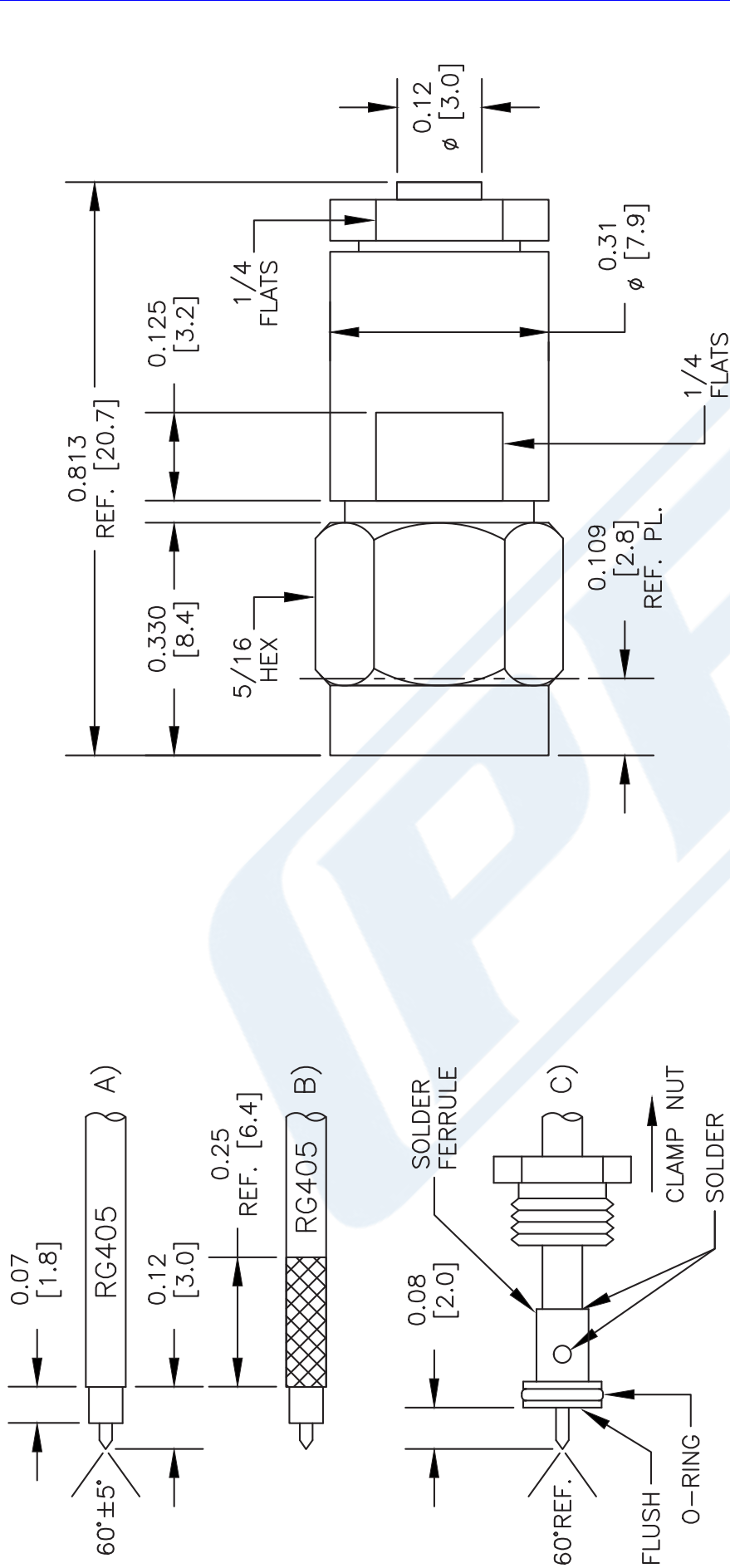
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PE44796 CAD Drawing

2.92mm Male Precision Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



DWG TITLE

PE44796

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

SIZE A

SCALE N/A

CAD FILE 042313

2233

**PE PASTERNAK®**

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## Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket

### RF Cables Technical Data Sheet

### PE-P086HF

#### Configuration

- Flexible Cable
- 2 Shield(s)

#### Description

Pasternack's PE-P086HF is a flexible, high frequency coaxial cable that provides similar loss characteristics to semi-rigid cable and low VSWR of 1.3:1 maximum up to 40 GHz. The low loss coax cable features silver-plated conductors and dual shields to maintain a shielding effectiveness of 110 dB. The size of the conductors for this low VSWR coax was specifically chosen to allow termination with standard connectors designed for M17/133-RG405 and other M17/133 cables. The outer shield is coated with a tough, chemical and heat resistant jacket. This PE-P086HF flexible low loss coaxial cable is a great choice for short length, high frequency system hook-up or jumper cable applications. The Pasternack coax cable can also be used as a replacement option for bent semi-rigid cable assemblies when length and routing are considered.

#### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 40      | GHz          |
| Impedance               |         | 50 ±2        |         | Ohms         |
| Velocity of Propagation |         | 70           |         | %            |
| Nominal Capacitance     |         | 29.4 [96.46] |         | 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: [Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket PE-P086HF](#)



## Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket

### RF Cables Technical Data Sheet

### PE-P086HF

#### Performance by Frequency Band

| Description      | F1    | F2    | F3     | F4     | F5     | Units    |
|------------------|-------|-------|--------|--------|--------|----------|
| Frequency        | 0.4   | 1     | 2      | 2.4    | 3      | GHz      |
| Attenuation, Max | 13.1  | 21.1  | 30.5   | 33.7   | 38     | dB/100ft |
|                  | 42.98 | 69.23 | 100.07 | 110.56 | 124.67 | dB/100m  |
| Attenuation, Typ | 11.9  | 19.2  | 27.7   | 30.6   | 34.5   | dB/100ft |
|                  | 39.04 | 62.99 | 90.88  | 100.39 | 113.19 | dB/100m  |

| Description      | F6     | F7     | F8     | F9     | F10 | Units    |
|------------------|--------|--------|--------|--------|-----|----------|
| Frequency        | 5      | 10     | 18     | 40     |     | GHz      |
| Attenuation, Max | 50.3   | 74.3   | 104.6  | 170.3  |     | dB/100ft |
|                  | 165.03 | 243.77 | 343.18 | 558.73 |     | dB/100m  |
| Attenuation, Typ | 45.7   | 67.5   | 95.1   | 154.8  |     | dB/100ft |
|                  | 149.93 | 221.46 | 312.01 | 507.87 |     | dB/100m  |

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.104 in [2.64 mm]       |
| Weight                          | 0.013 lbs/ft [0.02 Kg/m] |
| Min. Bend Radius (Installation) | 0.52 in [13.21 mm]       |

#### Construction Specifications

| Description     | Material and Plating                 | Diameter           |
|-----------------|--------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 1 Strands | 0.02 in [0.51 mm]  |
| Conductor Type  | Solid                                |                    |
| Dielectric      | PTFE                                 | 0.064 in [1.63 mm] |
| First Shield    | Silver Plated Copper Tape            |                    |
| Second Shield   | Silver Plated Copper Braid           |                    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket PE-P086HF](#)

Flexible PE-P086HF Coax Cable Double  
Shielded with Blue FEP Jacket

**RF Cables Technical Data Sheet**

**PE-P086HF**

|        |           |                    |
|--------|-----------|--------------------|
| Jacket | FEP, Blue | 0.104 in [2.64 mm] |
|--------|-----------|--------------------|

**Environmental Specifications**

**Temperature**

Operating Range -55 to +200 deg C

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

**Plotted and Other Data**

Notes:

Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket 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.

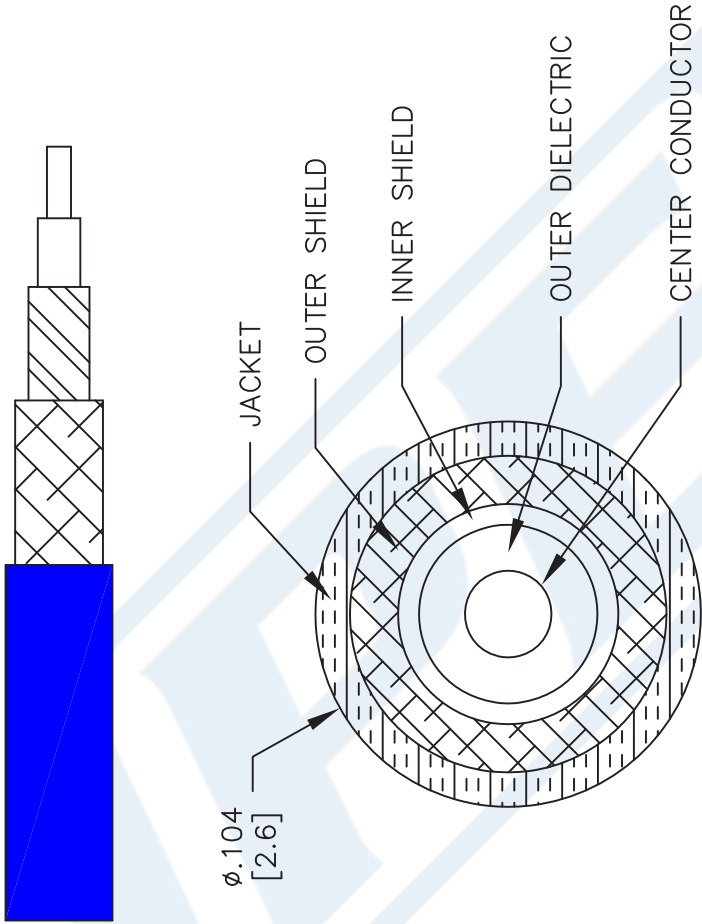
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URL: <https://www.pasternack.com/50-ohm-flexible-invalid-alias-fep-jacket-silver-plated-copper-tape-over-silver-plated-copper-braid-outer-conductor-double-shielded-blue-pe-p086hf-p.aspx>

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PE-P086HF CAD Drawing

Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket



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DWG TITLE

PE-P086HF

CAGE CODE 53919

CAD FILE 041317

SCALE N/A

SIZE A

2233

**Pasternack**  
THE ENGINEER'S RF SOURCE

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