



## SSMC Jack Bulkhead Mount Connector Clamp/ Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

### RF Connectors Technical Data Sheet

**PE45370**

#### Configuration

- SSMC Jack Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 Interface Type
- Clamp/Solder Attachment
- Bulkhead

#### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.38:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204
- Reliable threaded coupling
- Small SSMC connector form factor (50% smaller than SMA, radially)
- IEC 60169-20 SSMC connector interface
- In stock and ready to ship

#### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies
- Avionics
- A/D Modules
- Data Acquisition
- Software defined radio (SDR)
- RADAR/SONAR
- Ultra Wideband Digital Receivers
- Medical equipment

#### Description

Pasternack's PE45370 SSMC jack bulkhead 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 SSMC jack connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.38:1. This SSMC bulkhead connector 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.

Our SSMC jack bulkhead connector PE45370 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      |         | 12.4    | GHz   |
| VSWR                            |         |         | 1.38:1  |       |
| Insertion Loss                  |         |         | 0.3     | dB    |
| Operating Voltage (AC)          |         |         | 250     | Vrms  |
| High Potential Voltage<br>5 MHz |         |         | 400     | Vrms  |
| Inner Conductor DC Resistance   |         |         | 4       | mOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Jack Bulkhead Mount Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR-405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE45370](#)



SSMC Jack Bulkhead Mount Connector Clamp/  
Solder Attachment for PE-SR405AL, PE-SR405FL,  
PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE45370**

|                               |       |       |
|-------------------------------|-------|-------|
| Outer Conductor DC Resistance | 1     | mOhms |
| Insulation Resistance         | 1,000 | MOhms |
| RF Leakage                    | -50   | dB    |

### Mechanical Specifications

**Size**

Length

0.55 in [13.97 mm]

Width/Dia.

0.156 in [3.96 mm]

Mating Cycles

500 Cycles

Mating Torque

1.75 to 2 in-lbs [0.20 to 0.23 Nm]

**Material Specifications**

| Description     | Material         | Plating             |
|-----------------|------------------|---------------------|
| Contact         | Beryllium Copper | Gold<br>MIL-G-45204 |
| Insulation      | Teflon           |                     |
| Outer Conductor | Beryllium Copper | Gold<br>MIL-G-45204 |
| Body            | Beryllium Copper | Gold<br>MIL-G-45204 |
| Washer          | Phosphor Bronze  | Gold<br>MIL-G-45204 |

### Environmental Specifications

**Temperature**

Operating Range

-65 to +165 deg C

Shock

Method 213, Condition B, 75G @6ms @1/2 sine

Vibration

Method 204, Condition D (20G)

Salt Spray

Method 101, Condition B, 5% salt solution

**Compliance Certifications** (see [product page](#) for current document)**Plotted and Other Data**

Notes:

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SSMC Jack Bulkhead Mount Connector Clamp/  
Solder Attachment for PE-SR405AL, PE-SR405FL,  
PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

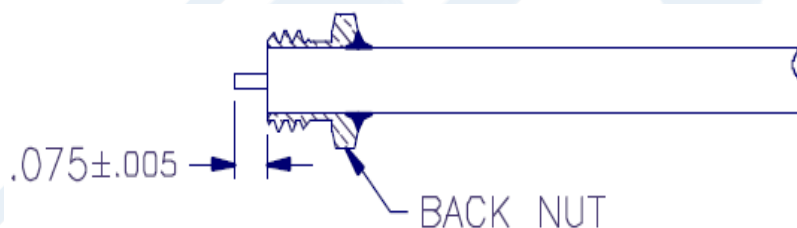
**PE45370**

### Assembly Instruction

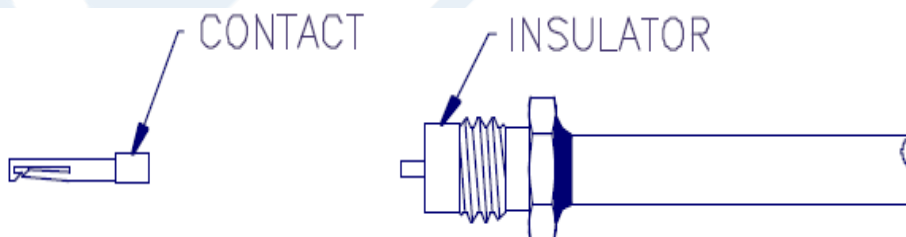
#### Assembly Instructions



1. TRIM CABLE JACKET ONLY, AS SHOWN ABOVE.



2. SLIDE BACK NUT ONTO CABLE UNTIL TRIMMED END OF JACKET IS FLUSH WITH FRONT OF NUT. SOLDER NUT TO CABLE.
3. TRIM DIELECTRIC AS SHOWN.



4. INSTALL INSULATOR OVER CABLE CENTER CONDUCTOR.
5. SOLDER CONTACT TO CENTER CONDUCTOR.
6. INSERT CABLE ASSEMBLY INTO CONNECTOR BODY AND TIGHTEN TO 35-45 INCH-OUNCES TORQUE.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Jack Bulkhead Mount Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR-405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE45370](#)



SSMC Jack Bulkhead Mount Connector Clamp/  
Solder Attachment for PE-SR405AL, PE-SR405FL,  
PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE45370**

SSMC Jack Bulkhead Mount 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.

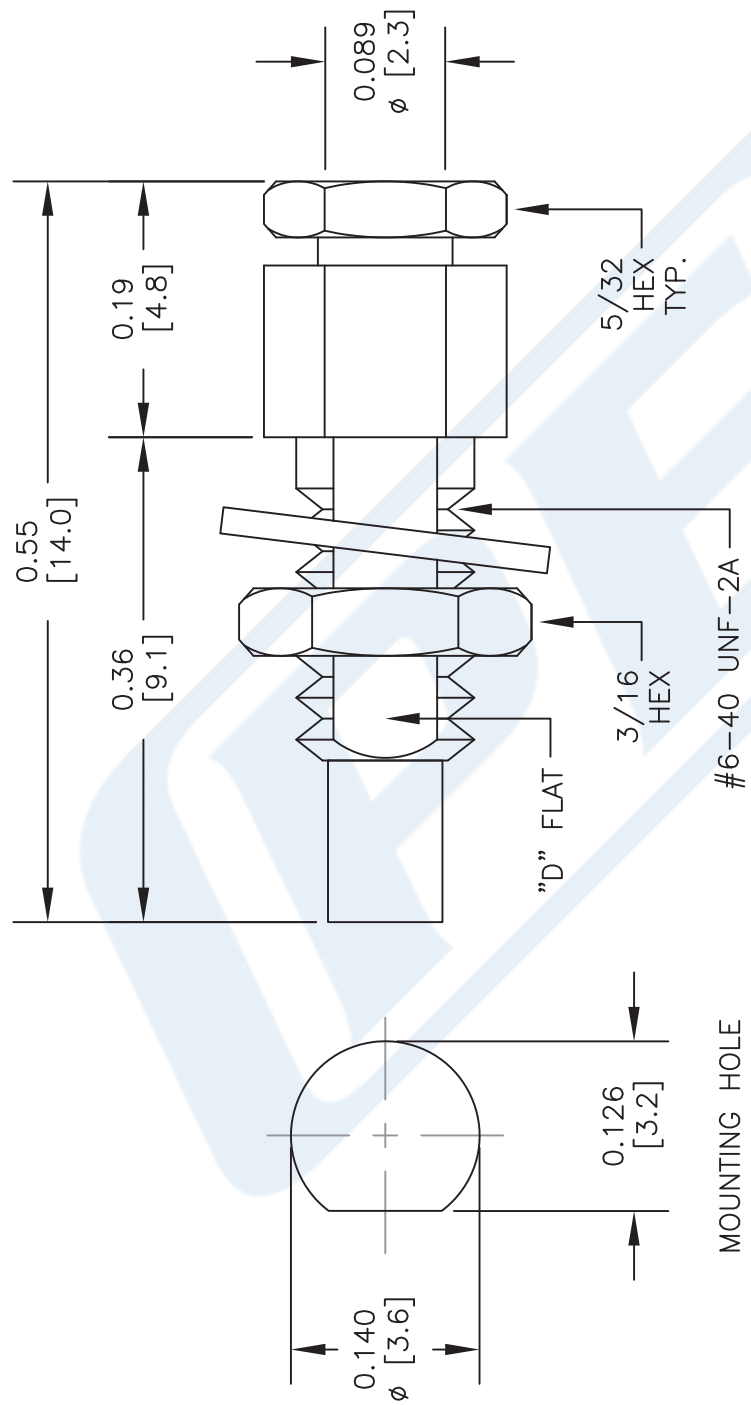
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URL: <https://www.pasternack.com/ssmc-jack-pe-sr405al-pe-sr405fl-pe-sr405tn-rg405-connector-pe45370-p.aspx>

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# PE45370 CAD Drawing

SSMC Jack Bulkhead Mount Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



## STANDARD TOLERANCES

|      |       |
|------|-------|
| .X   | ±0.2  |
| .XX  | ±0.1  |
| .XXX | ±0.05 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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DWG TITLE  
**PE45370**

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].

CAGE CODE 53919

CAD FILE 060917

SCALE N/A

SIZE A

2233



SMC Plug Connector Solder Attachment for PE-SR405AL,  
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44977**

### Configuration

- SMC Plug Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 Interface Type
- Solder/Solder Attachment

### Features

- Max. Operating Frequency 10 GHz
- Good VSWR of 1.35:1
- Gold over Nickel Plated Beryllium Copper Contact
- 1.3  $\mu$ m minimum contact plating

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44977 SMC plug connector with solder/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 SMC plug connector operates up to a maximum frequency of 10 GHz and offers good VSWR of 1.35:1.

Our SMC plug connector PE44977 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      |         | 10      | GHz   |
| VSWR                                 |         |         | 1.35:1  |       |
| Insertion Loss                       |         |         | 0.4     | dB    |
| Operating Voltage (AC)               |         |         | 250     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 750     | Vrms  |
| Insulation Resistance                | 1,000   |         |         | MOhms |
| RF Leakage                           | 52      |         |         | dB    |

#### Electrical Specification Notes:

Insertion loss =  $0.125 \times \sqrt{f(\text{GHz})}$  dB max.

RF leakage =  $62 - (f(\text{GHz}))$  dB min.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44977](#)





SMC Plug Connector Solder Attachment for PE-SR405AL,  
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44977**

### Mechanical Specifications

**Size**

Length 0.56 in [14.22 mm]

Width/Dia. 0.23 in [5.84 mm]

Weight 0.005 lbs [2.27 g]

Mating Cycles 500 Cycles

### Material Specifications

| Description  | Material         | Plating                            |
|--------------|------------------|------------------------------------|
| Contact      | Beryllium Copper | Gold over Nickel<br>1.3 µm minimum |
| Insulation   | PTFE             |                                    |
| Body         | Brass            | Gold over Nickel<br>0.2 µm minimum |
| Coupling Nut | Brass            | Gold over Nickel<br>0.2 µm minimum |

### Environmental Specifications

**Temperature**

Operating Range -65 to +105 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44977](#)



SMC Plug Connector Solder Attachment for PE-SR405AL,  
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

**PE44977**

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

### Plotted and Other Data

Notes:

SMC Plug Connector 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% availability and are part of the broadest selection in the industry.

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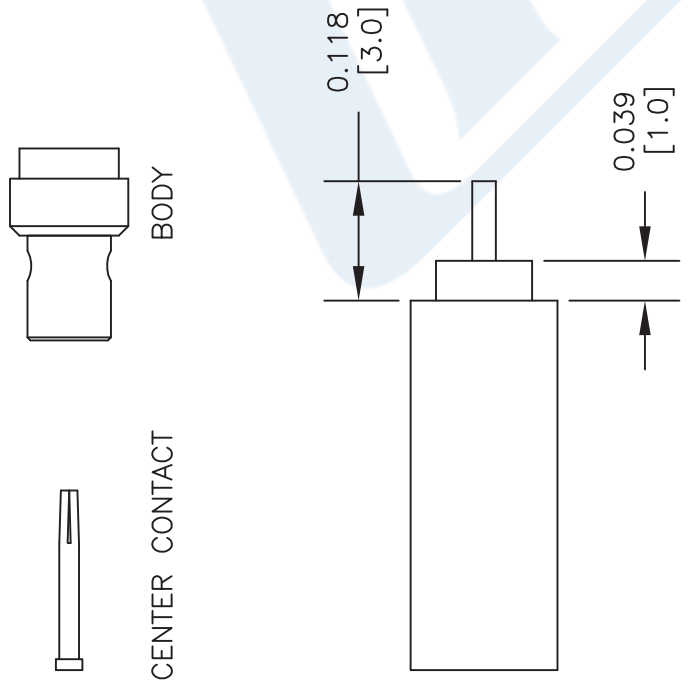
URL: <https://www.pasternack.com/smc-plug-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44977-p.aspx>

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PE44977 CAD Drawing

SMC Plug Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



- STRIPPING DIMENSIONS
- ASSEMBLY PROCEDURES
1. STRIP OFF THE OUTER CONDUCTOR AND THE DIELECTRIC. SOLDER THE CONTACT.
  2. PUT THE ASSEMBLY INTO THE BODY. SOLDER THE BODY ON THE SEMI-RIGID CABLE.

DWG TITLE

PE44977

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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.

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Website: www.pasternack.com | E-Mail: sales@pasternack.com

FSCM NO. 53919

CAD FILE 030314

SCALE N/A

SIZE A

2233

## 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.

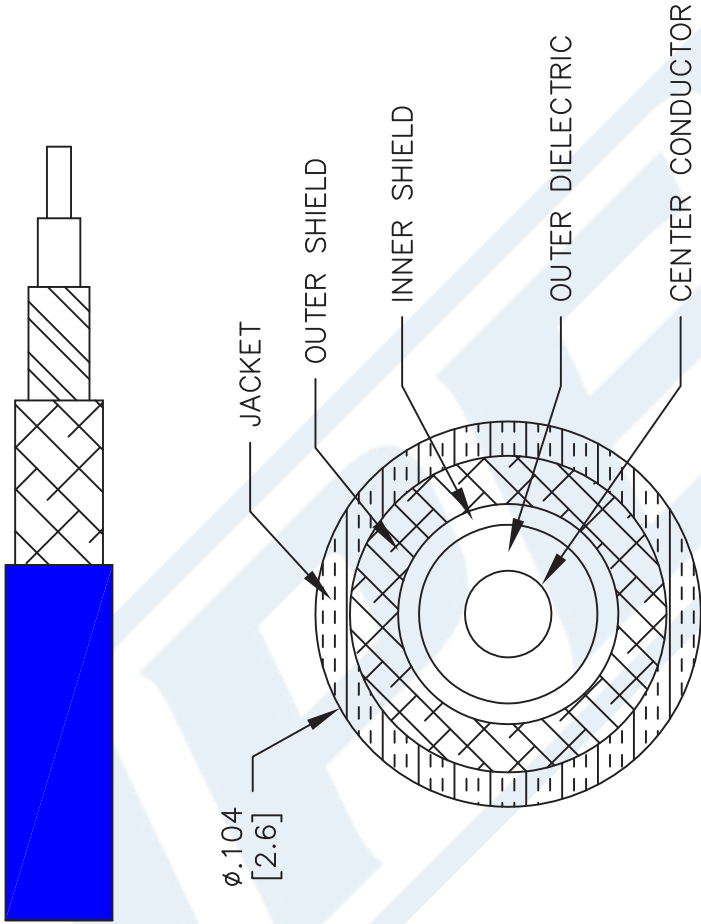
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URL: <https://www.pasternack.com/50-ohm-flexible-invalid-alias-fep-jacket-silver-plated-copper-tape-over-silver-plated-copper-braid-outer-conductor-double-shielded-blue-pe-p086hf-p.aspx>

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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

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