



1.85mm Female Bulkhead Mount Connector Clamp/
 Solder Attachment for PE-SR405AL, PE-SR405FL, PE-
 SR405FLJ, PE-SR405TN, RG405, .252 inch D Hole

RF Connectors Technical Data Sheet

PE44802

Configuration

- 1.85mm Female Connector
- IEEE-STD-P287
- 50 Ohms
- Straight Body Geometry

- PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 Interface Type
- Clamp/Solder Attachment
- Bulkhead

Features

- Max. Operating Frequency 60 GHz
- Good VSWR of 1.35:1

- Gold over Nickel Plated Beryllium Copper Contact
- 50 μ in minimum contact plating

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE44802 1.85mm female bulkhead connector with clamp/solder attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN and RG405 (.252 inch D hole) is part of our full line of RF components available for same-day shipping. Our 1.85mm female connector operates up to a maximum frequency of 60 GHz and offers good VSWR of 1.35:1. This 1.85mm 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 1.85mm female bulkhead connector PE44802 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 | | 60 | GHz |
| VSWR | | | 1.35:1 | |

Mechanical Specifications

| | |
|-------------|---------------------|
| Size | 0.965 in [24.51 mm] |
| Length | 0.375 in [9.53 mm] |
| Width/Dia. | |
| Weight | 0.018 lbs [8.16 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.85mm Female Bulkhead Mount Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, .252 inch D Hole PE44802](#)

1.85mm Female Bulkhead Mount Connector Clamp/
 Solder Attachment for PE-SR405AL, PE-SR405FL, PE-
 SR405FLJ, PE-SR405TN, RG405, .252 inch D Hole



RF Connectors Technical Data Sheet

PE44802

Material Specifications

| Description | Material | Plating |
|-------------|----------------------------|---|
| Contact | Beryllium Copper | Gold over Nickel 50 μ in minimum |
| Insulation | PEI | |
| Body | Passivated Stainless Steel | SAE-AMS-2700 |

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

Plotted and Other Data

Notes:

1.85mm Female Bulkhead Mount Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, .252 inch D Hole 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.

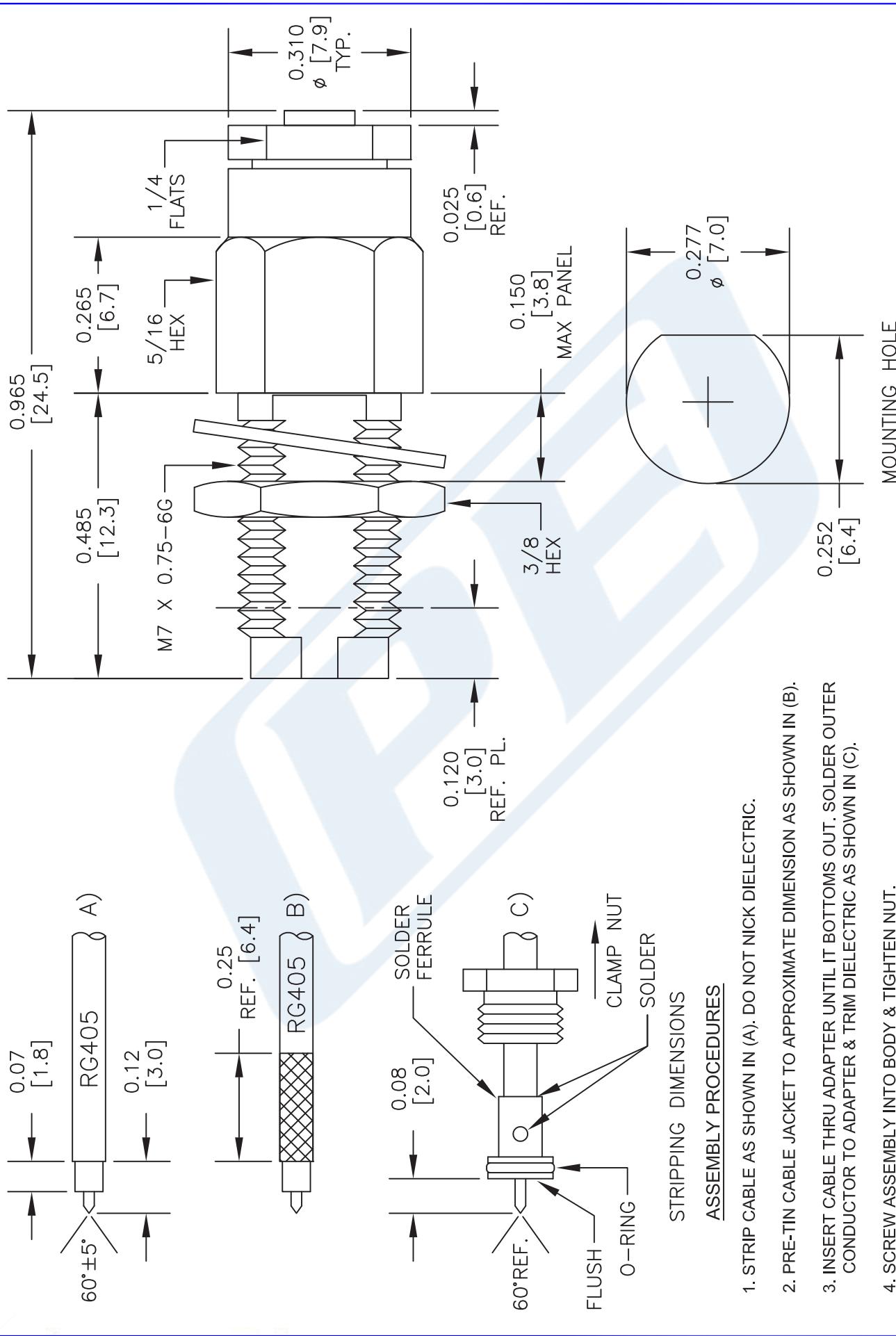
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.85mm Female Bulkhead Mount Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, .252 inch D Hole PE44802](#)

URL: <https://www.pasternack.com/1.85mm-female-standard-pe-sr405al-pe-sr405fl-pe-sr405flj-rg405-connector-pe44802-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.

PE44802 CAD Drawing

1.85mm Female Bulkhead Mount Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, .252 inch D Hole



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.

DWG TITLE
PE44802

PE PASTERNACK®
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 Phone: (949) 261-1920 | Fax: (949) 261-7451
 Website: www.pasternack.com | E-Mail: sales@pasternack.com

| FSCM NO. | CAD FILE | SCALE | SIZE | A |
|----------|----------|-------|------|------|
| 53919 | 042313 | | | 2233 |

1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact



PE44336

Configuration

- 1.85mm Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405
- 1/4 inch Hex

Features

- Max. Operating Frequency 60 GHz
- Good VSWR of 1.33:1
- Gold over Nickel Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44336 1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN and RG405 Cable is part of our full line of RF components available for same-day shipping. Our 1.85mm male connector operates up to a maximum frequency of 60 GHz and offers good VSWR of 1.33:1.

Our 1.85mm male connector PE44336 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 | | 60 | GHz |
| VSWR | | | 1.33:1 | |
| Insertion Loss | | | 0.39 | dB |
| Impedance | | 50 | | Ohms |

Electrical Specification Notes:

Insert loss: $0.05 \times \sqrt{f\text{GHz}}$ dB.

Mechanical Specifications

Size

| | |
|---------------|------------------------------------|
| Length | 0.531 in [13.49 mm] |
| Width | 0.312 in [7.92 mm] |
| Height | 0.312 in [7.92 mm] |
| Weight | 0.008 lbs [3.63 g] |
| Mating Cycles | 500 Cycles |
| Mating Torque | 8 to 10 in-lbs [[0.90 to 1.13 Nm]] |

1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact



PE44336

Material Specifications

| Description | Material | Plating |
|----------------|----------------------------|---------------------------------|
| Contact | Beryllium Copper | Gold over Nickel MIL-G-45204 |
| Body | Beryllium Copper | Gold over Nickel MIL-G-45204 |
| Coupling Nut | Passivated Stainless Steel | ASTM-A380 |
| Retaining Ring | Beryllium Copper | |
| Gasket | Silicone Rubber | |

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:

1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact 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: [1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact PE44336](https://www.pasternack.com/1.85mm-male-pe-sr405al-pe-sr405fl-rg405-connector-pe44336.html)

URL: <https://www.pasternack.com/1.85mm-male-pe-sr405al-pe-sr405fl-rg405-connector-pe44336.html>

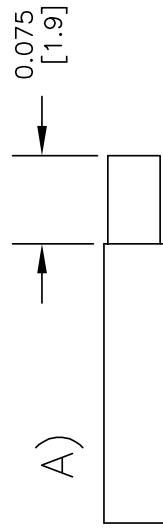
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PE44336 CAD Drawing

1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact

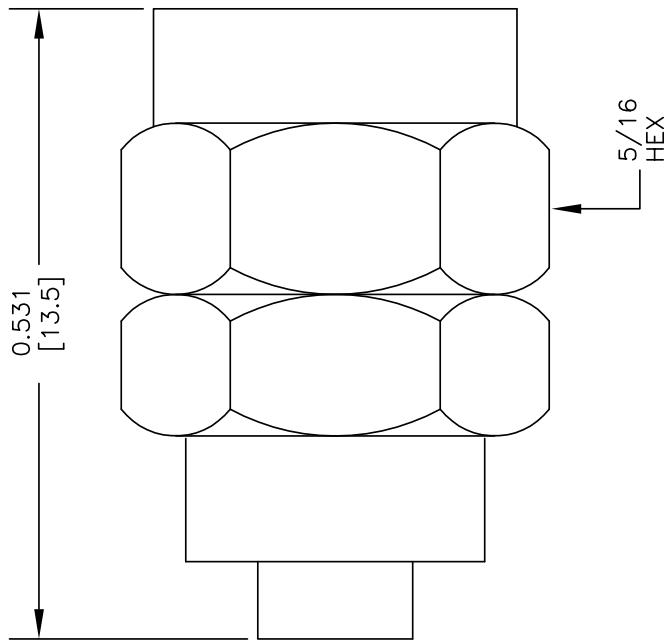
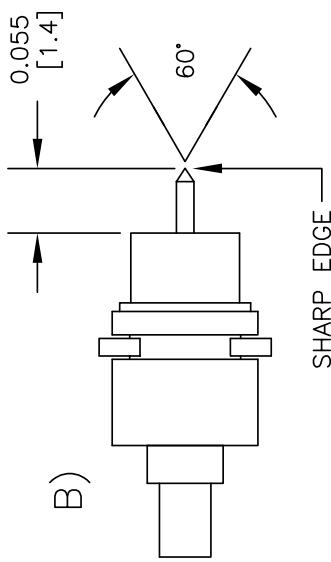
ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A).



2. SLIDE BODY OVER CABLE UNTIL IT STOPS. SOLDER BODY ONTO CABLE.

3. STRIP CABLE AS SHOWN IN ASSEMBLY (B) THEN INSTALL COUPLING NUT, FORM POINT ON COAX CENTER CONDUCTOR AS SHOWN.



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 3. DIMENSIONS ARE IN INCHES (mm).
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

| DWG TITLE | PE44336 | CAD FILE | 101414 | SCALE | N/A | SIZE | A | 150 |
|--|----------------|----------|--------|-------|-----|------|---|-----|
| PASTERNAK® THE ENGINEER'S SOURCE | FSCM NO. 53919 | | | | | | | |

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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 \pm 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.

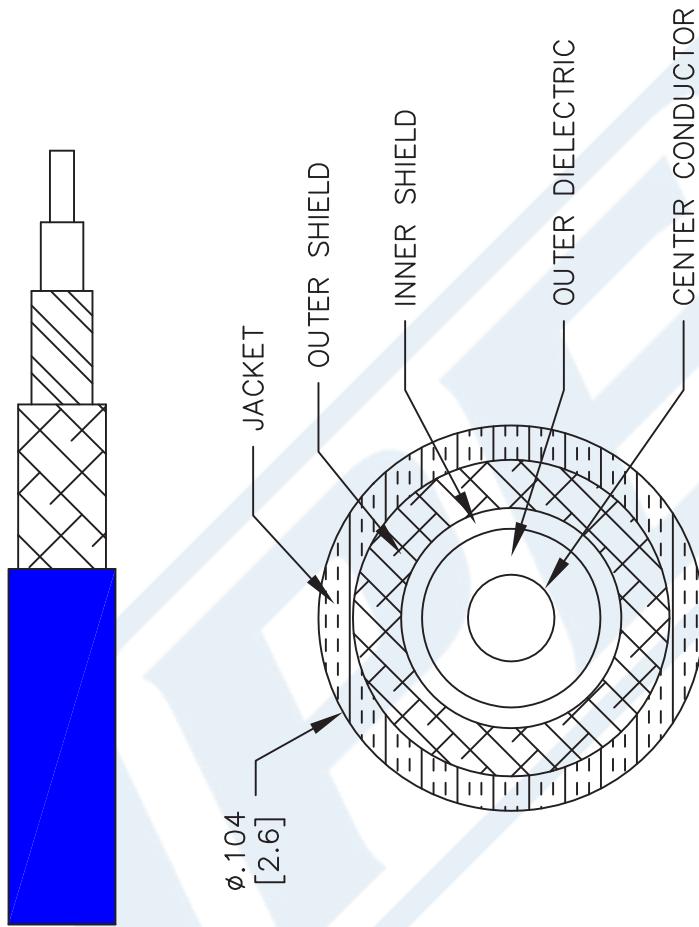
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket PE-P086HF](#)

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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