

SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



PE44786

Configuration

- SMP Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.2:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204
- Blind Mate Connector

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44786 , SMP, Standard, Connector is part of our full line of RF components available for same-day shipping. Our SMP female connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.2:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated.

Our SMP female connector PE44786 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 | | 18 | GHz |
| VSWR | | | 1.2:1 | |
| Impedance | | 50 | | Ohms |

Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 0.25 in [6.35 mm] |
| Width | 0.134 in [3.40 mm] |
| Height | 0.134 in [3.4 mm] |
| Weight | 0.006 lbs [2.72 g] |

SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



PE44786

Material Specifications

| Description | Material | Plating |
|-------------|------------------|---------------------|
| Contact | Beryllium Copper | Gold MIL-G-45204 |
| Insulation | PTFE | |
| Body | Beryllium Copper | Gold MIL-G-45204 |

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

SMP Female 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 99.4% 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: [SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44786](#)

URL: <https://www.pasternack.com/smp-female-standard-pe-p086-pe-p086ll-connector-pe44786-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.



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Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

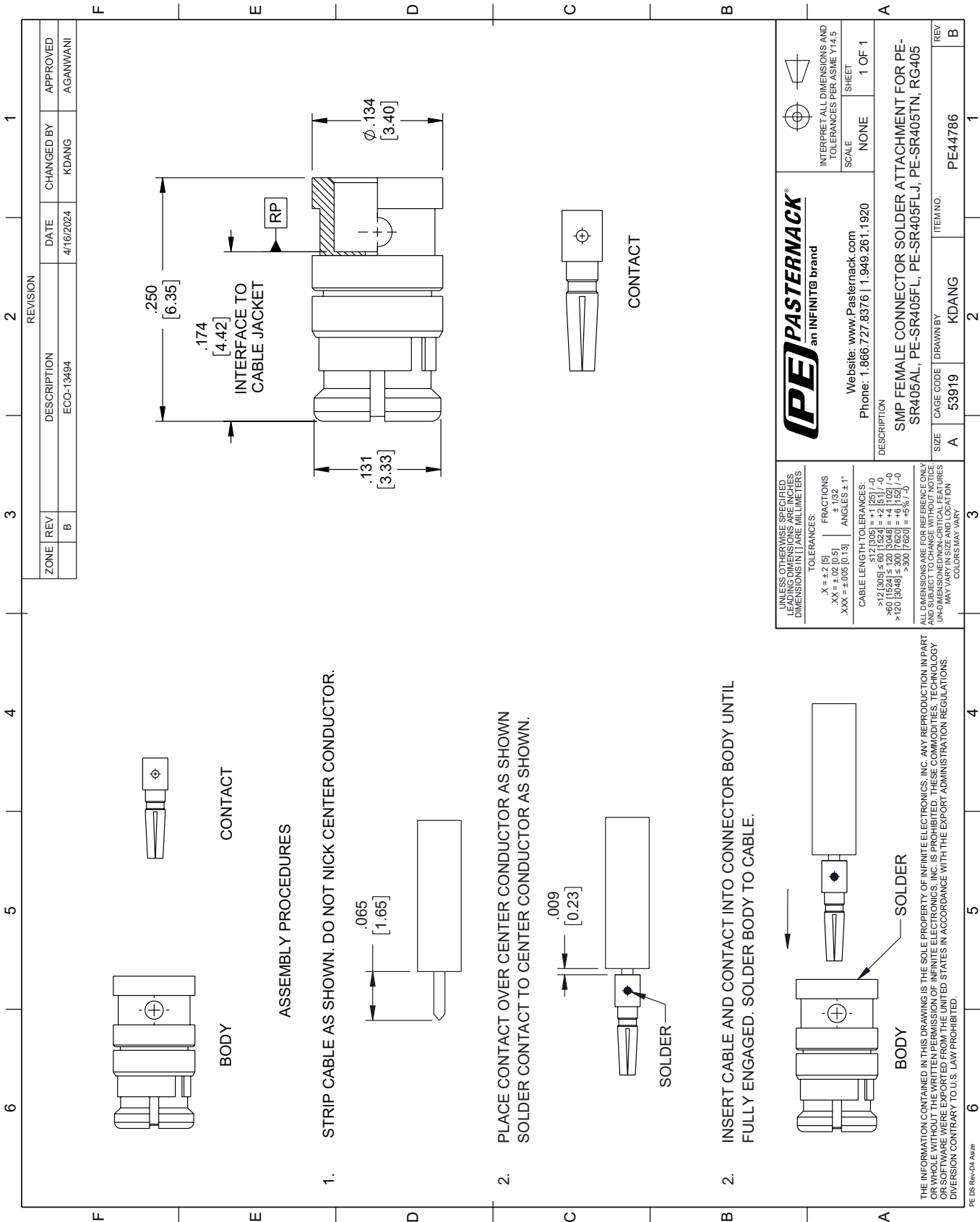
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Flexible PE-P086HF Coax Cable Double Shielded with Blue FEP Jacket

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:

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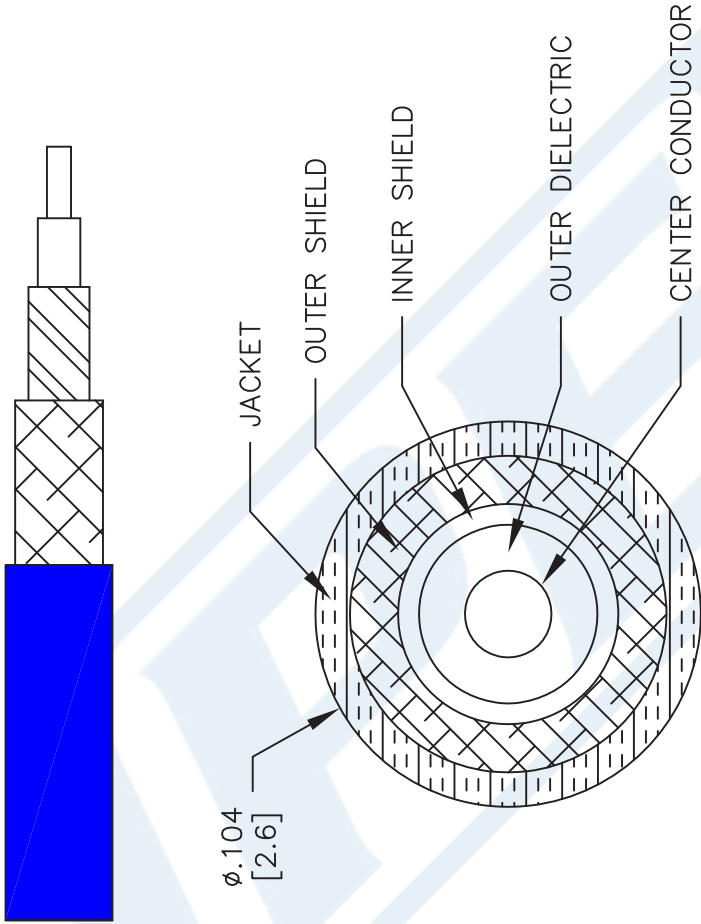
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URL: <https://www.pasternack.com/50-ohm-flexible-invalid-alias-fep-jacket-silver-plated-copper-tape-over-silver-plated-copper-braid-outer-conductor-double-shielded-blue-pe-p086hf-p.aspx>

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PE-P086HF CAD Drawing

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



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].

DWG TITLE
PE-P086HF

CAGE CODE 53919

CAD FILE 041317

SCALE N/A

SIZE A

2233

PE PASTERNAK®
THE ENGINEER'S RF SOURCE

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