

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



# RF Connectors Technical Data Sheet

PE44336

# Configuration

- 1.85mm Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-
- SR405TN, RG405 Interface Type
- Solder Attachment
- 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 with 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 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**

			Units
DC		60	GHz
		1.33:1	
		0.39	dB
	DC	DC	1.33:1

Electrical Specification Notes: Insertion loss: 0.05 x sqrt(fGHz) dB.

# **Mechanical Specifications**

Size

 Length
 0.531 in [13.49 mm]

 Width/Dia.
 0.312 in [7.92 mm]

 Weight
 0.007 lbs [3.18 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: 1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact PE44336

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# RF Connectors Technical Data Sheet

PE44336

#### **Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204
Body	Stainless Steel	Gold over Nickel MIL-G-45204
Coupling Nut	Passivated Stainless Steel	ASTM-A380

# **Environmental Specifications**

**Temperature** 

Operating Range Vibration Salt Spray -55 to +100 deg C MIL-STD-202, Method 204, Condition D (20 G's) MIL-STD-202, Method 101, Condition B, 5% salt solution

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

#### **Assembly Instruction**

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.

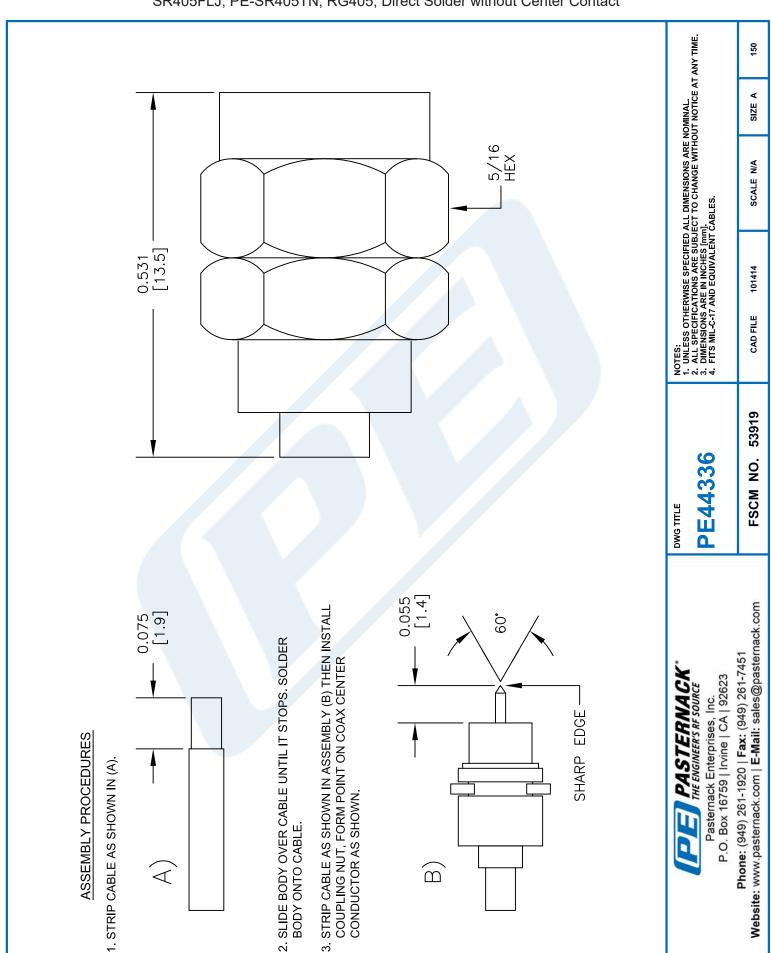
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1.85mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405, Direct Solder without Center Contact PE44336

URL: https://www.pasternack.com/1.85mm-male-pe-sr405al-pe-sr405fl-rg405-connector-pe44336-p.aspx

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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







# RF Connectors Technical Data Sheet

PE45414

# Configuration

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

#### **Features**

- Max. Operating Frequency 50 GHz
- Excellent VSWR of 1.16:1

- PE-SR405AL, RG405, PE-SR405FLJ Interface Type
- Solder Attachment
- 5/16 inch Hex
- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

# **Applications**

General Purpose Test

Custom Cable Assemblies

# Description

Pasternack's PE45414 2.4mm male connector with solder attachment for PE-SR405AL, RG405 and PE-SR405FLJ 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 excellent VSWR of 1.16:1.

Our 2.4mm male connector PE45414 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			1.16:1	
Insertion Loss			0.283	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
High Potential Voltage			670	Vrms
5 to 7.5 MHz				
Corona Discharge at 70,000 ft			250	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	-90			dB

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 Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ PE45414

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# RF Connectors Technical Data Sheet

PE45414

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 26.5	26.5 to 40	40 to 50		GHz
VSWR, Max	1.1:1	1.12:1	1.14:1	1.16:1		

**Electrical Specification Notes:** Insertion loss: 0.04 x sqrt(fGHz) dB.

# **Mechanical Specifications**

Size

Length 0.58 in [14.73 mm] Width/Dia. 0.312 in [7.92 mm] Height 0.35 in [8.89 mm]

Mating Cycles

Mating Torque 8 to 10 in-lbs [0.90 to 1.13 Nm]

# **Material Specifications**

Beryllium Copper PEI	Gold over Nickel 50 μin minimum
PEI	
Beryllium Copper	Gold over Nickel 50 µin minimum
ssivated Stainless Steel	ASTM-A582
Beryllium Copper	
Silicone Rubber	
	ssivated Stainless Steel  Beryllium Copper

500 Cycles

#### **Environmental Specifications**

**Temperature** 

Operating Range -65 to +150 deg C

Shock MIL-STD-202, Method 213, Condition I MIL-STD-202, Method 204, Condition D Vibration Thermal Shock MIL-STD-202, Method 107, Condition B

Salt Spray MIL-STD-202, Method 101, Condition B, 5% salt solu-

tion

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# RF Connectors Technical Data Sheet

PE45414

Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

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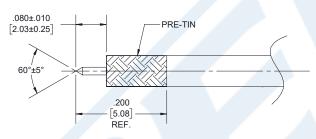


# RF Connectors Technical Data Sheet

PE45414

#### **Assembly Instruction**

# **Assembly Instructions**

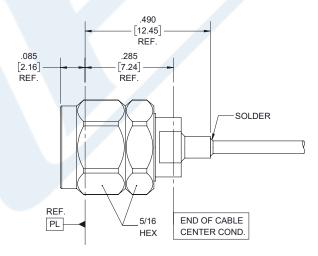


#### **STEP 1**:

- PRE-TIN CABLE OUTER JACKET OVER APPROX. LENGTH SHOWN.
- TRIM CABLE TO EXPOSE CENTER CONDUCTOR AS SHOWN.
- POINT CENTER CONDUCTOR AS INDICATED.

# STEP 2

- INSERT CABLE INTO CONNECTOR UNTIL CENTER CONDUCTOR PLUGS IN AND CABLE SEATS IN CONNECTOR BORE.
- SOLDER CABLE JACKET TO BODY WHERE SHOWN APPLYING HEAT TO EXTENDED BODY TAIL.



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# RF Connectors Technical Data Sheet

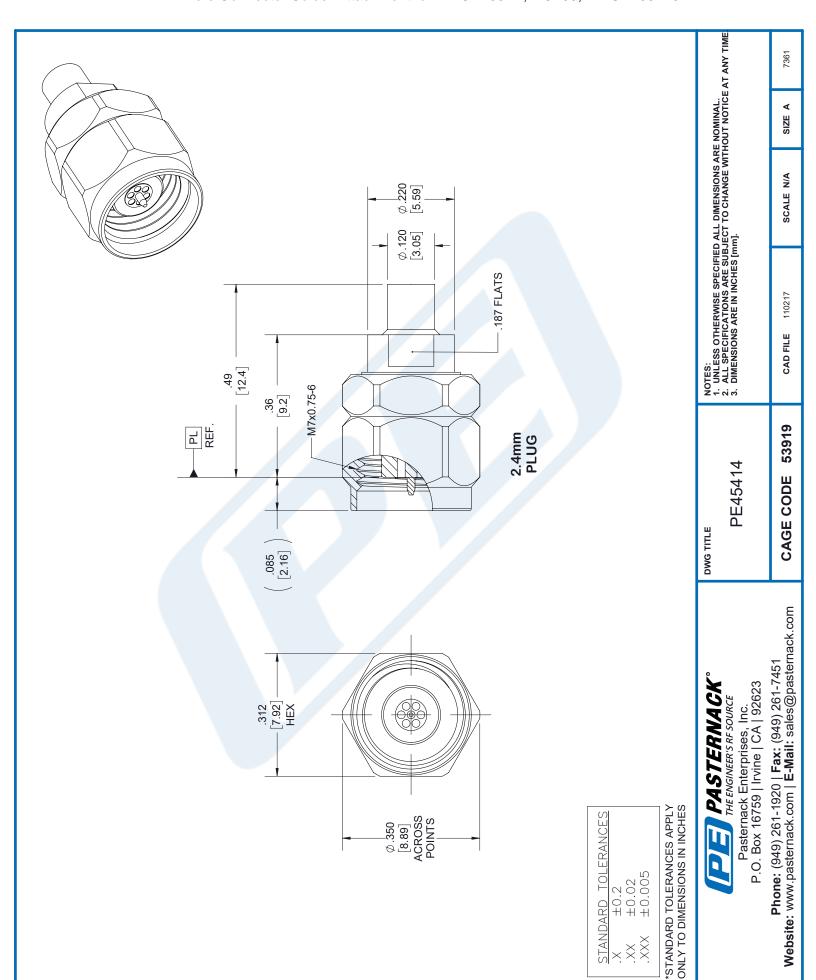
PE45414

2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ 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 Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ PE45414

URL: https://www.pasternack.com/2.4mm-male-pe-sr405al-rg405-pe-sr405flj-connector-pe45414-p.aspx

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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	50.3 165.03	74.3 243.77	104.6 343.18	170.3 558.73		dB/100ft dB/100m
Attenuation, Typ	45.7 149.93	67.5 221.46	95.1 312.01	154.8 507.87		dB/100ft dB/100m

# **Mechanical Specifications**

Diameter Weight 0.104 in [2.64 mm] 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

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# 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

