



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

RF Connectors Technical Data Sheet

PE44275

Configuration

- SMP Female Connector
- MIL-STD-348A
- 50 Ohms

- Right Angle Body Geometry
- Connector Interface Types: PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.38:1

- Gold Plated Beryllium Copper Contact
- Blind Mate Connector

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44275 Right Angle, 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 12.4 GHz and offers good VSWR of 1.38:1. 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. Its right angle body geometry allows for easier connections in tight spaces.

Our SMP female right angle connector PE44275 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	
Operating Voltage (AC)			335	Vrms
Impedance	50			Ohms
Test Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
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: [SMP Female Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44275](#)



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

RF Connectors Technical Data Sheet

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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12	12 to 26.5			GHz
VSWR, Max	1.11:1	1.23:1	1.38:1			

Electrical Specification Notes:
Insertion loss = $0.1 \times \sqrt{f(\text{GHz})}$ dB max.

Mechanical Specifications

Size	
Length	0.26 in [6.60 mm]
Width	0.19 in [4.83 mm]
Height	0.00 in [0.00 mm]
Weight	0.00 lbs [0.91 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Beryllium Copper	Gold

Mechanical Specification Notes:
Mating cycles: 1,000 (smooth bore), 500 (limited detent), 100 (full detent) minimum.

Environmental Specifications

Temperature	
Operating Range	-65 to +155 deg C
Humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Condition A
Vibration	MIL-STD-202, Method 204, Condition B
Thermal Shock	MIL-STD-202, Method 107, Condition B

Compliance Certifications

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

Plotted and Other Data

Notes:

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



RF Connectors
Technical Data Sheet

PE44275

SMP Female Right Angle 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.

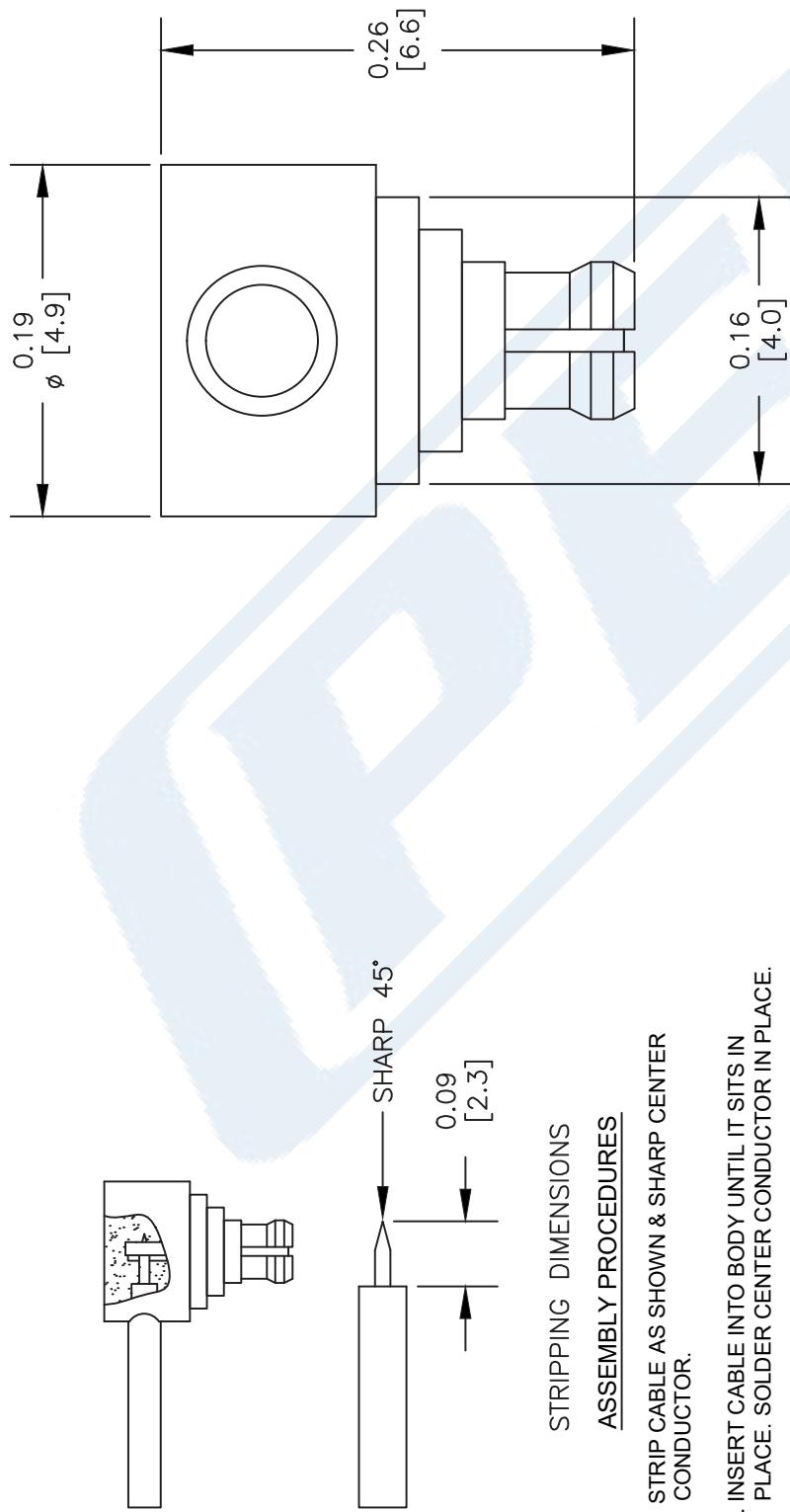
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URL: <https://www.pasternack.com/smp-female-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44275-p.aspx>

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PE44275 CAD Drawing

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



STRIPPING DIMENSIONS
ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SHARP CENTER CONDUCTOR.
2. INSERT CABLE INTO BODY UNTIL IT SITS IN PLACE. SOLDER CENTER CONDUCTOR IN PLACE.
3. SOLDER OUTER CONDUCTOR TO BODY. PRESS DOWN CAP.

PE PASTERNACK®

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DWG TITLE	PE44275	REV. A	FSCM NO.	53919	CAD FILE	022812	SCALE	N/A	SIZE	A	2233
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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.



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RF Connectors Technical Data Sheet

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- 50 Ohms

- Right Angle Body Geometry
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Features

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- Gold Plated Beryllium Copper Contact
- Blind Mate Connector

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.38:1	
Operating Voltage (AC)			335	Vrms
Impedance	50			Ohms
Test Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			6	mOhms
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SMP Female Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

RF Connectors Technical Data Sheet

PE44275

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12	12 to 26.5			GHz
VSWR, Max	1.11:1	1.23:1	1.38:1			

Electrical Specification Notes:
Insertion loss = $0.1 \times \sqrt{f} \text{GHz}$ dB max.

Mechanical Specifications

Size

Length

0.26 in [6.60 mm]

Width

0.19 in [4.83 mm]

Height

0.00 in [0.00 mm]

Weight

0.00 lbs [0.91 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Beryllium Copper	Gold

Mechanical Specification Notes:

Mating cycles: 1,000 (smooth bore), 500 (limited detent), 100 (full detent) minimum.

Environmental Specifications

Temperature

Operating Range

-65 to +155 deg C

Humidity

MIL-STD-202, Method 106

Shock

MIL-STD-202, Method 213, Condition A

Vibration

MIL-STD-202, Method 204, Condition B

Thermal Shock

MIL-STD-202, Method 107, Condition B

Compliance Certifications

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

Plotted and Other Data

Notes:

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RF Connectors
Technical Data Sheet

PE44275

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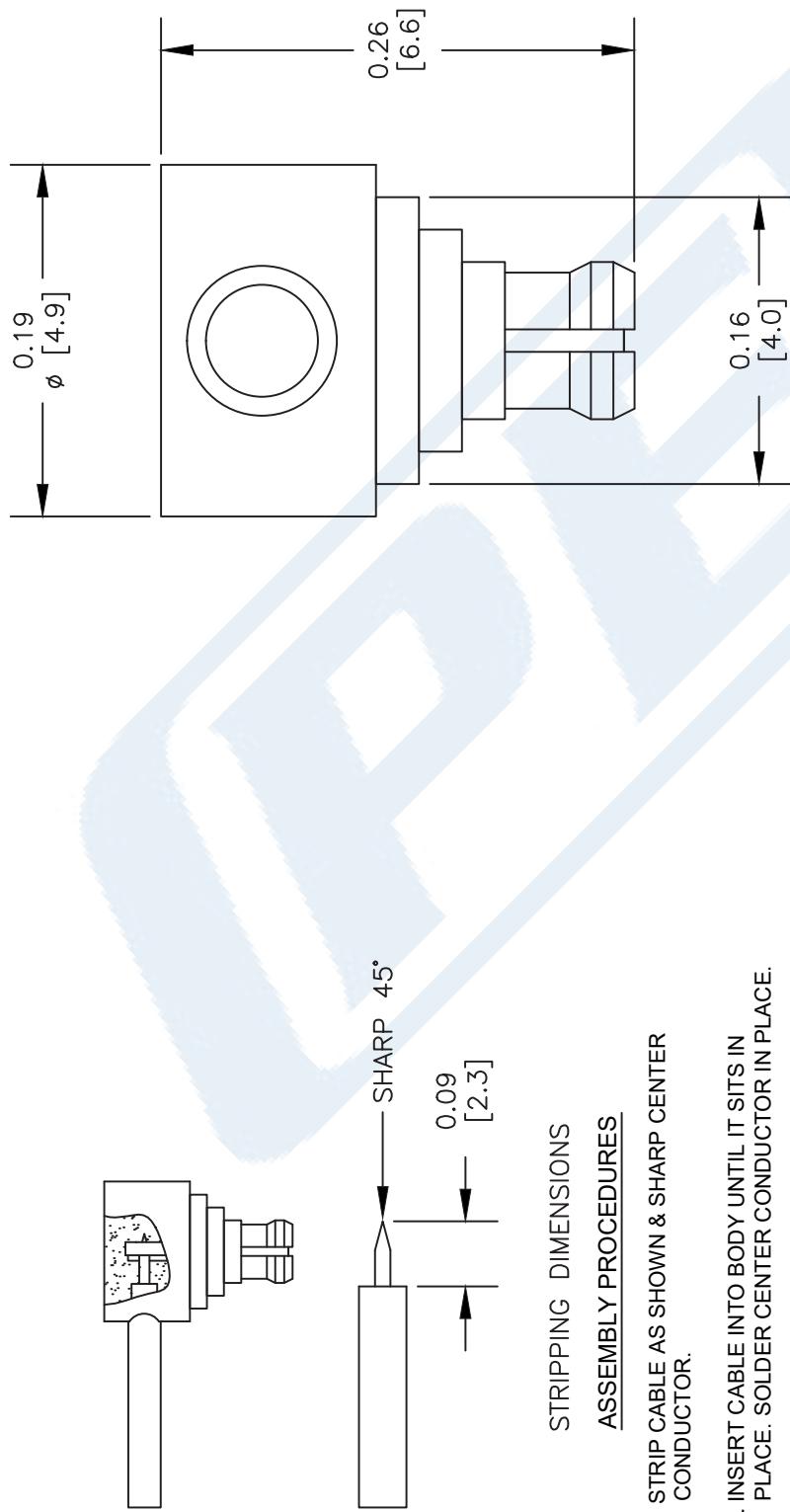
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PE44275 CAD Drawing

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



STRIPPING DIMENSIONS
ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SHARP CENTER CONDUCTOR.
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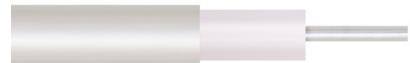
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4. FITS MIL-C-17 AND EQUIVALENT CABLES.

RG405 Tinned Coax Cable with Tinned Copper Outer Conductor in Coiled Sections



PE-SR405TN

Configuration

- Semi-Rigid Cable
- MIL-C-17
- 1 Shield(s)

Features

- Cable Packaged in Coiled Sections

Applications

- General Purpose Test

Description

PE-SR405TN part number from Pasternack is a RG405 Tinned coax cable that is semi-rigid. Pasternack RG405 Tinned semi-rigid coax cable is 50 Ohm and has a PTFE dielectric. RG405 Tinned coax has a shield count of 1 and the maximum frequency for this Pasternack cable is 40 GHz. RG405 Tinned coax cable has an attenuation at 1 GHz of 22 dB.

Pasternack RG405 Tinned coax cables are part of over 40,000 RF, microwave and millimeter wave components. RG405 Tinned cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using RG405 Tinned or other coax can be built and shipped same day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Typ	22	80	120			dB/100ft
	72.18	262.47	393.7			dB/100m
Input Power (CW), Max	130	35	20			Watts

Mechanical Specifications

Weight	0.013 lbs/ft [0.02 kg/m]
Min. Bend Radius (Installation)	0.05 in [1.27 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strand	0.02 in [0.51 mm]
Conductor Type	Solid	

RG405 Tinned Coax Cable with Tinned Copper Outer Conductor in Coiled Sections



PE-SR405TN

Construction Specifications

Description	Material and Plating	Diameter
Dielectric	PTFE	0.066 in [1.68 mm]
Outer Conductor	Tinned Copper	0.086 in [2.18 mm]

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

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

Plotted and Other Data

Notes:

RG405 Tinned Coax Cable with Tinned Copper Outer Conductor in Coiled Sections 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.

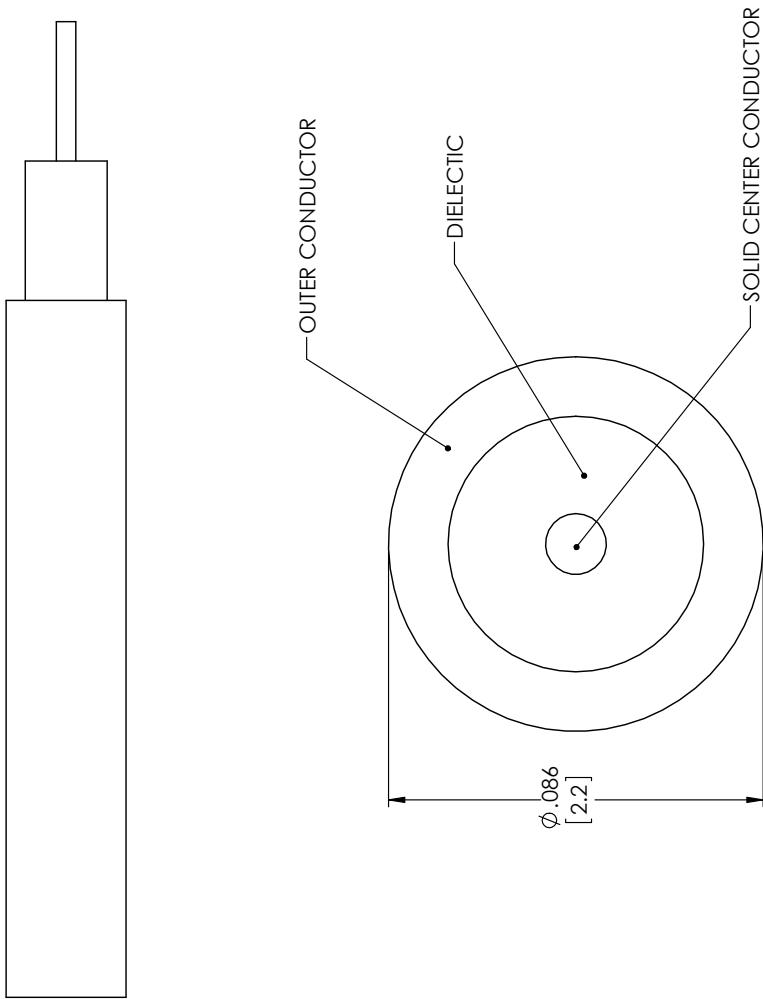
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG405 Tinned Coax Cable with Tinned Copper Outer Conductor in Coiled Sections PE-SR405TN](#)

URL: <https://www.pasternack.com/50-ohm-semi-rigid-rg405-tinned-copper-pe-sr405tn-p.aspx>

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PE-SR405TN CAD Drawing

RG405 Tinned Coax Cable with Tinned Copper Outer Conductor in Coiled Sections



STANDARD TOLERANCES		
.X	±0.2	
.XX	±0.01	
.XXX	±0.005	

* STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE PE-SR405TN	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 11/28/17 SCALE N/A SIZE A CN2245