



2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

RF Connectors Technical Data Sheet

PE45541

Configuration

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

- Connector Interface Types: PE-SR405AL, PE-SR-405FL, PE-SR405FLJ, PE-SR405TN, RG405
- 5/16 inch Hex

Features

- Max. Operating Frequency 50 GHz
- Good VSWR of 1.4:1

- Gold over Nickel Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45541 2.4mm male 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 2.4mm male connector operates up to a maximum frequency of 50 GHz and offers good VSWR of 1.4:1.

Our 2.4mm male connector PE45541 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			1.4:1	
Insertion Loss			0.36	dB

Electrical Specification Notes:
Insertion loss: $0.05 \times \sqrt{f(\text{GHz})}$ dB.

Mechanical Specifications

Size	
Length	1.13 in [28.7 mm]
Weight	0.5 lbs [226.8 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: [2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE45541](#)



2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

RF Connectors Technical Data Sheet

PE45541

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PPO	
Body	Passivated Stainless Steel	ASTM-A380
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:

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 Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE45541](#)



2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

RF Connectors
Technical Data Sheet

PE45541

Assembly Instruction

<div><div>A</div><div>B</div><div>C</div><div>BODY</div><div>SOLDER FERRULE</div><div>CLAMP NUT</div></div>	
DIAGRAM	ASSEMBLY INSTRUCTION
	Step 1: STRIP AS SHOWN.
	Step 2: TIN DIP SPC BRAID.
	Step 3: SLIDE NUT "C" AND SOLDER FERRULE "B" OVER THE CABLE. Step 4: SOLDER IN "X".
	Step 5: CUT AWAY ANY EXCESS BRAID AND TEFLON STICKING OUT OF THE SOLDER FERRULE. Step 6: CUT CENTER CONDUCTOR TO LENGTH.
	Step 7: SHARPEN CENTER CONDUCTOR TIP.
	Step 8: FINALLY SCREW NUT "C" ON THE CONNECTOR BODY "A".

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 Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE45541](#)



2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

RF Connectors Technical Data Sheet

PE45541

2.4mm Male 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.

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 Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE45541](https://www.pasternack.com/2.4mm-male-pe-sr405al-pe-sr405fl-pe-sr405tn-rg405-connector-pe45541-p.aspx)

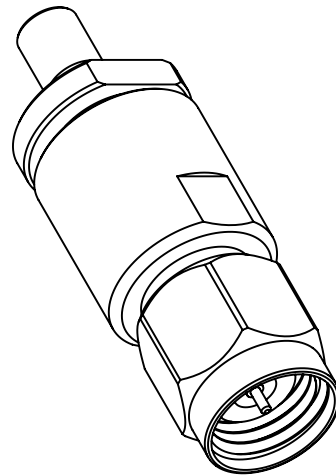
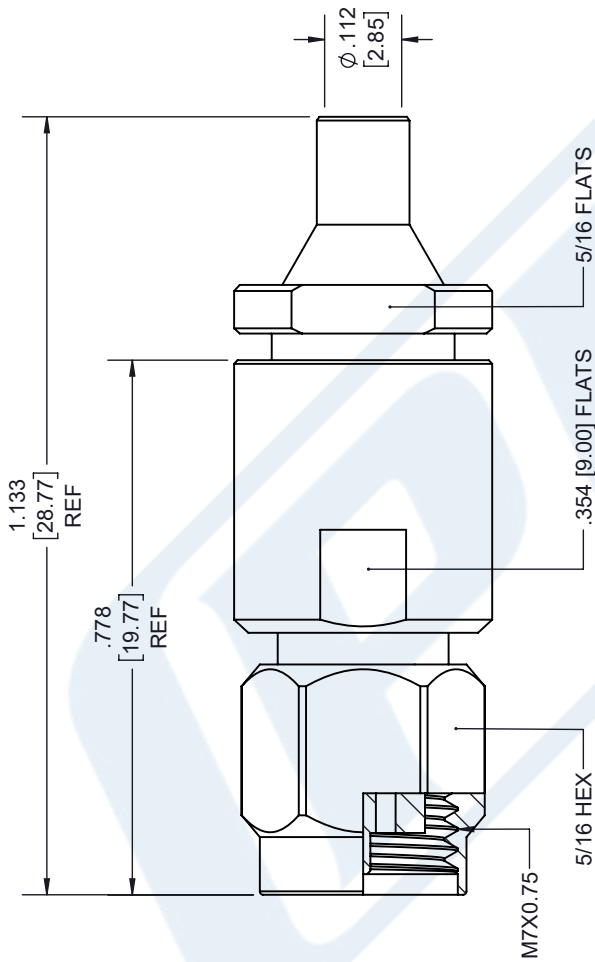
URL: <https://www.pasternack.com/2.4mm-male-pe-sr405al-pe-sr405fl-pe-sr405tn-rg405-connector-pe45541-p.aspx>

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.

PE45541 CAD Drawing

2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL,
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/13/2020	S. ELLIS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ± .2 [5.08] FRACTIONS

.XX = ± .02 [.51] ANGLES ± 1°

.XXX = ± .005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0

12 [305] < L ≤ 60 [1524] = +2 [51] / -0

60 [1524] < L ≤ 120 [3048] = +4 [102] / -0

120 [3048] < L ≤ 300 [7620] = +6 [152] / -0

300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PE PASTERNAK
an INFINITE brand

Pasternack Enterprises, Inc.

P.O. Box 16759, Irvine, CA 92623.

Phone: 1.949.261.1920 | 1.866.727.8376

Fax: 1.949.261.7451

Website: www.pasternack.com

E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541

REV A

SCALE N/A

SHEET 1 OF 2

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

THIRD-ANGLE PROJECTION

SHEET 1 OF 2

SCALE N/A

REV A

ITEM NO.

PE45541



2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

RF Connectors Technical Data Sheet

PE45541

Configuration

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

- Connector Interface Types: PE-SR405AL, PE-SR-405FL, PE-SR405FLJ, PE-SR405TN, RG405
- 5/16 inch Hex

Features

- Max. Operating Frequency 50 GHz
- Good VSWR of 1.4:1

- Gold over Nickel Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45541 2.4mm male 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 2.4mm male connector operates up to a maximum frequency of 50 GHz and offers good VSWR of 1.4:1.

Our 2.4mm male connector PE45541 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			1.4:1	
Insertion Loss			0.36	dB

Electrical Specification Notes:
Insertion loss: $0.05 \times \sqrt{f(\text{GHz})}$ dB.

Mechanical Specifications

Size	
Length	1.13 in [28.7 mm]
Weight	0.5 lbs [226.8 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: [2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE45541](#)



2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

RF Connectors Technical Data Sheet

PE45541

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PPO	
Body	Passivated Stainless Steel	ASTM-A380
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:

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 Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE45541](#)



2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

RF Connectors
Technical Data Sheet

PE45541

Assembly Instruction

<div><div>A</div><div>B</div><div>C</div><div>BODY</div><div>SOLDER FERRULE</div><div>CLAMP NUT</div></div>	
DIAGRAM	ASSEMBLY INSTRUCTION
	Step 1: STRIP AS SHOWN.
	Step 2: TIN DIP SPC BRAID.
	Step 3: SLIDE NUT "C" AND SOLDER FERRULE "B" OVER THE CABLE. Step 4: SOLDER IN "X".
	Step 5: CUT AWAY ANY EXCESS BRAID AND TEFLON STICKING OUT OF THE SOLDER FERRULE. Step 6: CUT CENTER CONDUCTOR TO LENGTH.
	Step 7: SHARPEN CENTER CONDUCTOR TIP.
	Step 8: FINALLY SCREW NUT "C" ON THE CONNECTOR BODY "A".

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 Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE45541](#)



2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

RF Connectors Technical Data Sheet

PE45541

2.4mm Male 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.

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 Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE45541](https://www.pasternack.com/2.4mm-male-pe-sr405al-pe-sr405fl-pe-sr405tn-rg405-connector-pe45541-p.aspx)

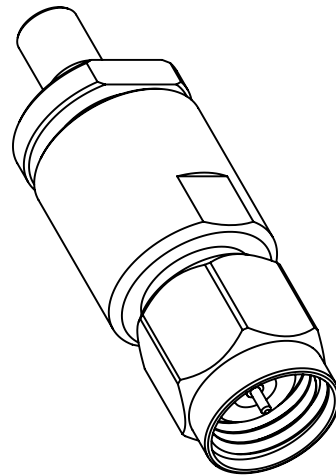
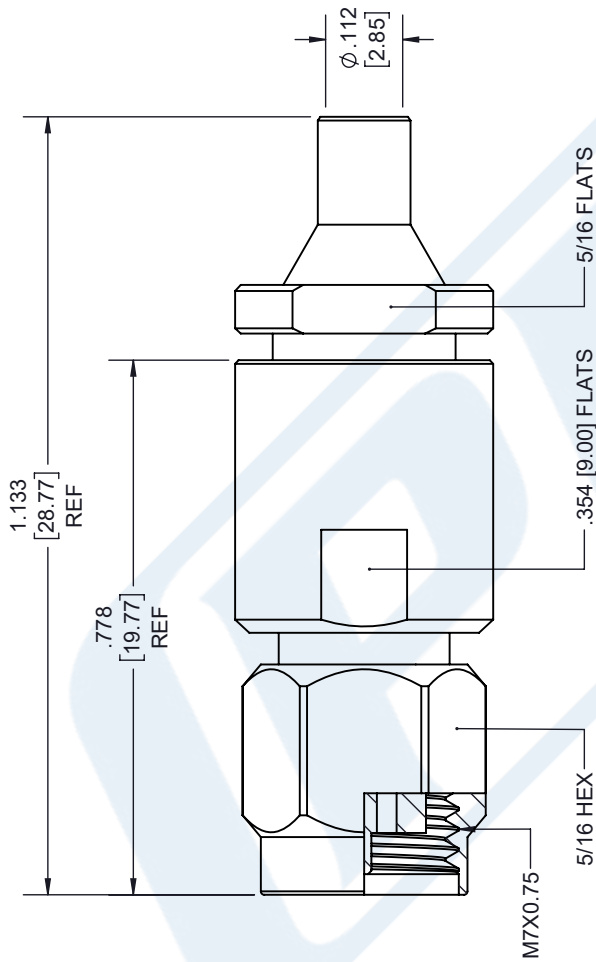
URL: <https://www.pasternack.com/2.4mm-male-pe-sr405al-pe-sr405fl-pe-sr405tn-rg405-connector-pe45541-p.aspx>

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.

PE45541 CAD Drawing

2.4mm Male Connector Clamp/Solder Attachment for PE-SR405AL,
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/13/2020	S. ELLIS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ANGLES ± 1°
.XXX = ±.005 [.13] CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

SHEET 1 OF 2

SCALE N/A

REV A

PE PASTERNAK
an INFINITE brand

Pasternack Enterprises, Inc.
P.O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376

Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

SIZE A CAGE CODE 53919 DRAWN BY K.DANG ITEM NO. PE45541

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE
WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

RF Cables Technical Data Sheet

PE-SR405AL

Configuration

- Semi-Rigid Cable
- 1 Shield(s)

Features

- Tinned Aluminum Outer Conductor
- Max Frequency 40 GHz

Applications

- Test and Measurement
- Communication Systems
- Wireless Systems
- Medical Equipment
- RADAR
- Low Loss Applications
- Field Installations

Description

Semi-rigid coaxial cable provides the highest electrical performance including low loss and high RF shielding effectiveness, which is why it is the cable type of choice for many RF and microwave engineers. Pasternack's PE-SR405AL is a .086 semi-rigid coax cable constructed with silver plated copper clad steel inner conductor, solid PTFE dielectric and tinned aluminum outer conductor. This .086 semi-rigid cable has a maximum operating frequency of 40 GHz and is designed as a superior alternative to the standard RG-405 cable. Semi-rigid cable is used in a wide variety of applications including when higher operating frequency or precision performance is required. PE-SR405AL .086 semi-rigid coaxial cable datasheet specifications and outline drawing are shown in the PDF below.

Pasternack carries a wide range of cables ready to ship same day to fit your needs. They are available in corrugated, flexible, formable or semi-rigid versions with different constructions of conductor materials, dielectric materials, shielding configurations and jacket materials. Our cables are designed to fit a wide range of performance criteria including attenuation, operating temperature, environmental factor, and power capability.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			5,000	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor PE-SR405AL](#)

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

RF Cables Technical Data Sheet

PE-SR405AL

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Max	23 75.46	81 265.75	131 429.79			dB/100ft dB/100m
Input Power (CW), Max	130	35	20			Watts

Mechanical Specifications

Min. Bend Radius (Installation) 0.05 in [1.27 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	0.066 in [1.68 mm]
Outer Conductor	Tinned Aluminum	0.086 in [2.18 mm]

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor PE-SR405AL](#)

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

RF Cables Technical Data Sheet

PE-SR405AL

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

Plotted and Other Data

Notes:

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor 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.

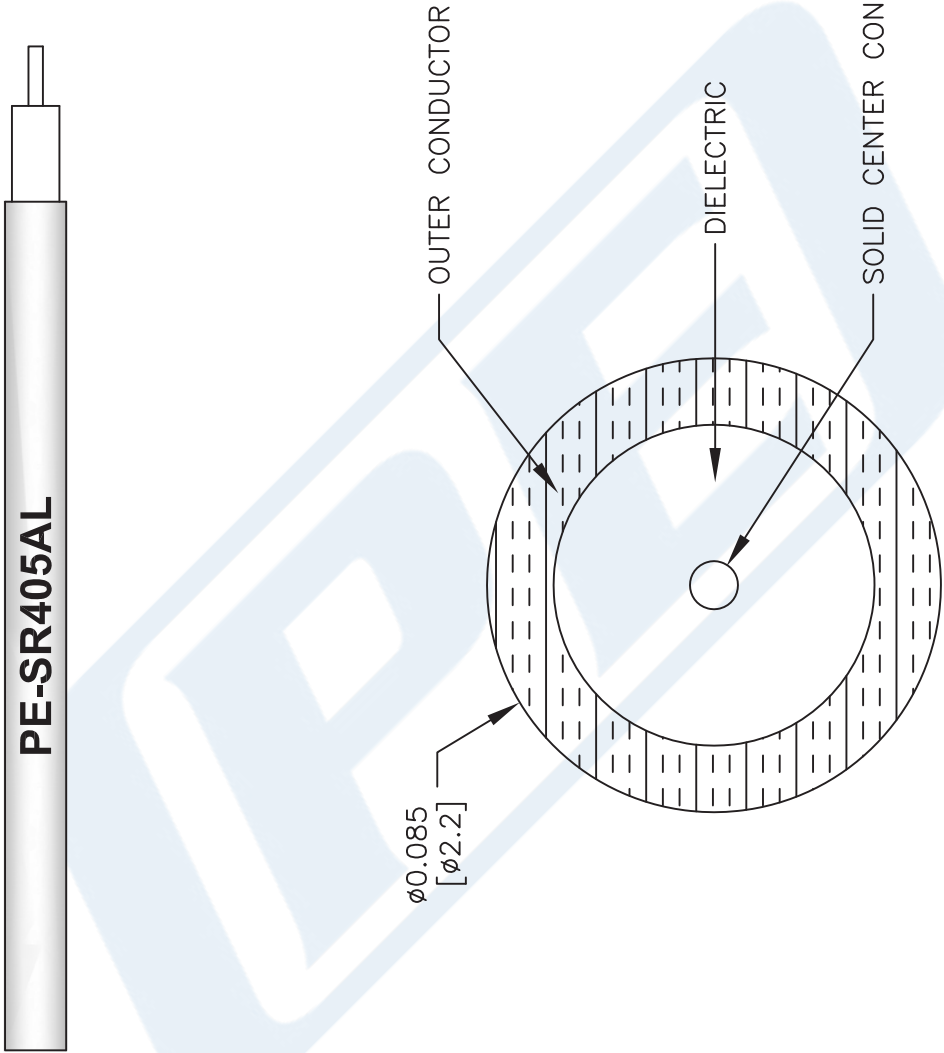
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor PE-SR405AL](#)

URL: <https://www.pasternack.com/semirigid-0.085-50-ohm-coax-cable-tinned-aluminum-pe-sr405al-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.

PE-SR405AL CAD Drawing

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor



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-SR405AL

FSCM NO. 53919

SIZE A

41742

PE PASTERNAK®
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com