



RP SMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405

TECHNICAL DATA SHEET

PE4779

RP SMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405

Configuration

| | |
|--|-----------------------------|
| Connector | SMA Male Reverse Polarity |
| Connector Interface Type | PE-SR405AL,PE-SR405FL,RG405 |
| Cable Attachment Method (Shield/Contact) | Solder/Solder |
| Body Style | Straight |

Electrical Specifications

| | |
|-----------------|----|
| Impedance, Ohms | 50 |
|-----------------|----|

Mechanical Specifications

| Size | |
|---------------------|---------------|
| Length, in [mm] | 0.535 [13.59] |
| Width/Dia., in [mm] | 0.312 [7.92] |
| Weight, lbs [g] | 0.006 [2.72] |

Connector

| | |
|-----------------------------------|---------------------------|
| Type | SMA Male Reverse Polarity |
| Contact Material and Plating | Gold |
| Coupling Nut Material and Plating | Brass, Nickel |
| Hex Size, in. | 5/16 |
| Torque, in-lbs [Nm] | 5 [0.57] |
| Body Material and Plating | Stainless Steel, Gold |
| Dielectric Type | PTFE |

Compliance Certifications

(visit www.Pasternack.com for current document)

RoHS Compliant Yes

Plotted and Other Data

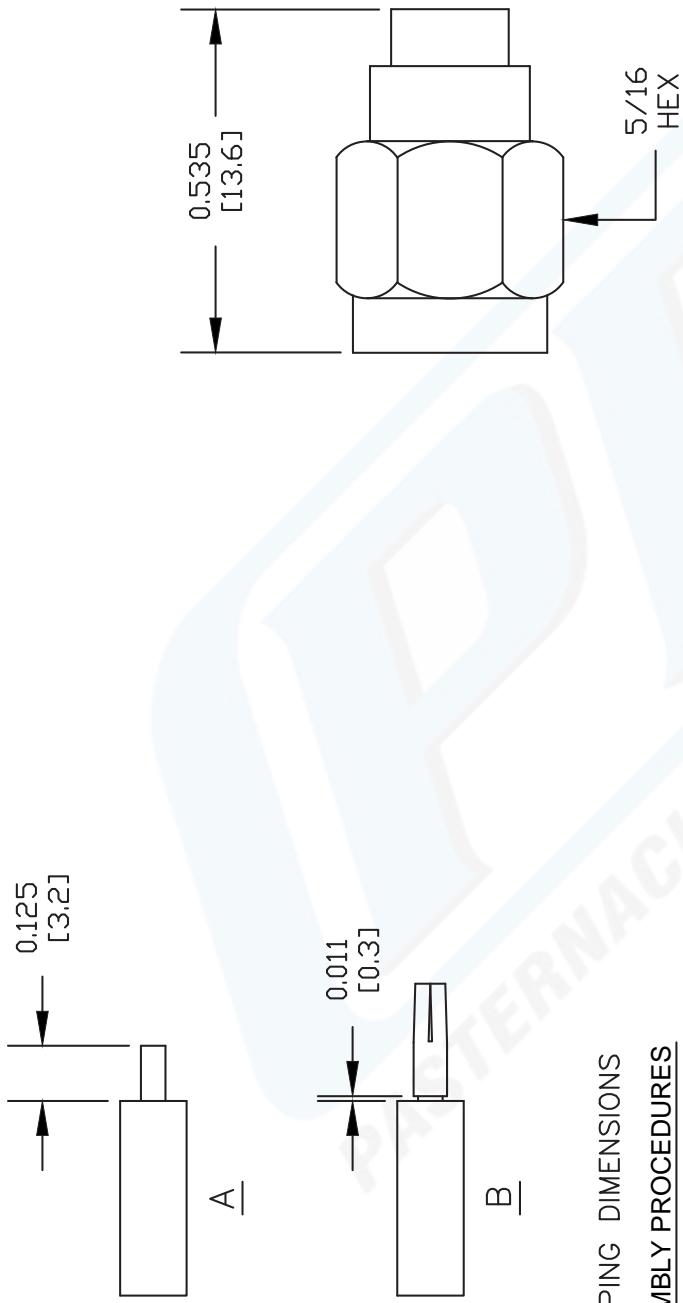
Notes: Values at 25 °C, sea level

RP SMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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: [RP SMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405 PE4779](http://www.pasternack.com/sma-male-reverse-polarity-pe-sr405al-pe-sr405fl-rg405-connector-pe4779-p.aspx)

URL: <http://www.pasternack.com/sma-male-reverse-polarity-pe-sr405al-pe-sr405fl-rg405-connector-pe4779-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.



STRIPPING DIMENSIONS
ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK CENTER CONDUCTOR.
2. SHIM CONTACT AS SHOWN IN (B) & SOLDER CONTACT TO CENTER CONDUCTOR.
3. INSERT CABLE INTO BODY UNTIL OUTER CONDUCTOR BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO BODY.

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 | PE4779 | CAD FILE | 062402 | SCALE | N/A | SIZE | A | 127 |
|--|----------------|----------|--------|-------|-----|------|---|-----|
| PE PASTERNACK® 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 | FSCM NO. 53919 | | | | | | | |

MCX Plug Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



RF Connectors Technical Data Sheet

PE4876

Configuration

- MCX Plug Connector
- MIL-C-39012
- 50 Ohms
- Straight Body Geometry

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

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.37:1

- Gold over Nickel Plated Brass Contact
- 30 μ in minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4876 MCX plug 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 MCX plug connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.37:1.

Our MCX plug connector PE4876 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 | | 6 | GHz |
| VSWR | | | 1.37:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 1,000 | Vrms |
| High Potential Voltage at 4 and 7 MHz | | | 670 | Vrms |
| Corona Discharge at 70,000 feet | | | 250 | Vrms |
| Insulation Resistance | 10,000 | | | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Plug Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE4876](#)

MCX Plug Connector Solder Attachment for PE-SR405AL,
 PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405


RF Connectors Technical Data Sheet

PE4876

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---------------------|---------|----|----|----|----|-------|
| Frequency Range | DC to 1 | | | | | GHz |
| Insertion Loss, Max | 0.1 | | | | | dB |

Electrical Specification Notes:
 RF leakage: 55 dB at 2.5 GHz.

Mechanical Specifications
Size

Length
 Width/Dia.

0.445 in [11.3 mm]
 0.196 in [4.98 mm]

Weight

0.003 lbs [1.36 g]

Mating Cycles

500 Cycles

Material Specifications

| Description | Material | Plating |
|-------------|----------|---|
| Contact | Brass | Gold over Nickel 30 μ in minimum |
| Insulation | PTFE | |
| Body | Brass | Gold over Nickel 10 μ in minimum |

Environmental Specifications
Temperature

Operating Range
 Humidity
 Shock
 Vibration
 Thermal Shock
 Salt Spray

-65 to +165 deg C
 MIL-STD-202, Method 106
 MIL-STD-202, Method 213, Condition B
 MIL-STD-202, Method 204, Condition B
 MIL-STD-202, Method 107, Condition F
 MIL-STD-202, Method 101, Condition B

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Plug Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE4876](#)

MCX Plug Connector Solder Attachment for PE-SR405AL,
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



RF Connectors Technical Data Sheet

PE4876

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

Plotted and Other Data

Notes:

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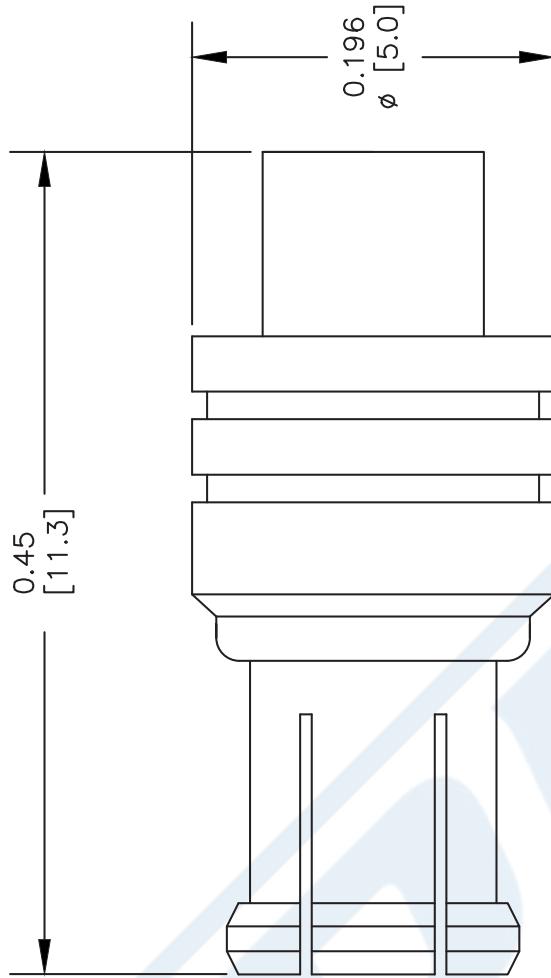
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URL: <https://www.pasternack.com/mcx-plug-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe4876-p.aspx>

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PE4876 CAD Drawing

MCX Plug Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SOLDER CONTACT TO CENTER CONDUCTOR.
3. INSERT CABLE INTO BODY UNTIL OUTER CONDUCTOR BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO BODY.

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
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3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

| PASTERNAK® | DWG TITLE |
|--|----------------------------------|
| PASTERNAK® | PE4876 |
| Pasternak Enterprises, Inc. P.O. Box 16759 Irvine CA 92623 Phone: (949) 261-1920 Fax: (949) 261-7451 Website: www.pasternak.com E-Mail: sales@pasternak.com | FSCM NO. 53919 |
| | CAD FILE 061202 SCALE N/A SIZE A |

Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

RF Cables Technical Data Sheet

PE-SR405FL

Configuration

- Formable Cable
- 1 Shield(s)

Features

- Dimensionally the same as standard solid outer conductor semi-rigid coax
- Standard semi-rigid connectors can be used
- Cable is hand formable and does not require special tools to bend

- Connectors are easily soldered to Tin soaked outer conductor
- Cable can be formed more than once without damage to outer conductor
- High RF Shielding >100 dB

Description

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly pre-formed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. The tin soaked copper braid outer shield provides excellent RF shielding.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|------------|---------|---------|--------------|
| Frequency Range | DC | | 20 | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 69.5 | | % |
| Inner Conductor DC Resistance | | | 65.7 | Ohms/1000ft |
| Outer Conductor DC Resistance | | | 10.2 | Ohms/1000ft |
| Nominal Capacitance | 29 [95.14] | | | pF/ft [pF/m] |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|------------------|-------------|---------------|----------------|---------------|--------------|---------------------|
| Frequency | 0.5 | 1 | 5 | 10 | 20 | GHz |
| Attenuation, Typ | 15 49.21 | 22.5 73.82 | 54.9 180.12 | 81.2 266.4 | 120 393.7 | dB/100ft dB/100m |

Mechanical Specifications

Min. Bend Radius (Repeated)

0.78 in [19.81 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR405FL](#)

Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

RF Cables Technical Data Sheet

PE-SR405FL

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 | 0.062 in [1.57 mm] |
| Outer Conductor | Copper, Tin | 0.085 in [2.16 mm] |

Environmental Specifications

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

Plotted and Other Data

Notes:

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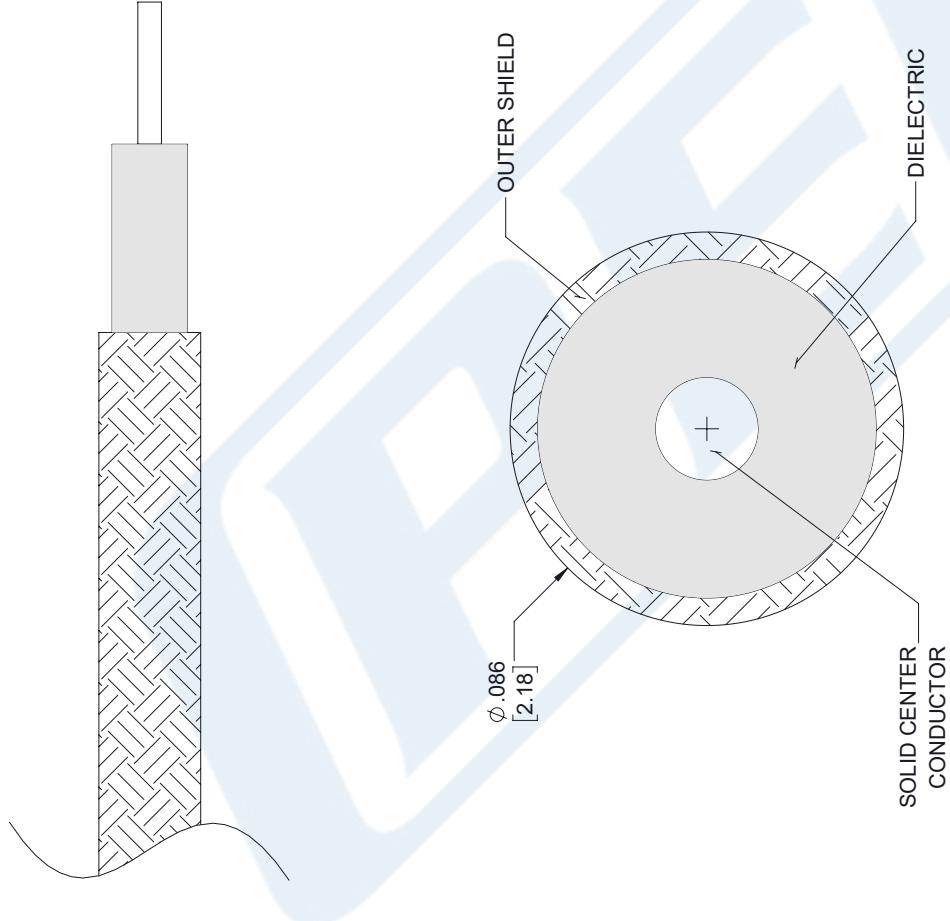
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR405FL](#)

URL: <https://www.pasternack.com/formable-0.085-semirigid-replacement-50-ohm-coax-cable-tinned-braid-pe-sr405fl-p.aspx>

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PE-SR405FL CAD Drawing

Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor



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

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



Paternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.paternack.com | E-Mail: sales@paternack.com

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| DWG TITLE | PE-SR405FL |
|-----------|------------|
| CAGE CODE | 53919 |

CAD FILE 112117
SCALE N/A
SIZE A

7361