



QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .268 inch D Hole

RF Connectors Technical Data Sheet

PE45218

Configuration

- QMA Female Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, PE-SR405FL, RG405 Interface Type
- Solder/Solder Attachment
- Bulkhead

Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.15:1
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE45218 QMA female bulkhead connector with solder/solder attachment for PE-SR405AL, PE-SR405FL and RG405 (.268 inch D hole) is part of our full line of RF components available for same-day shipping. Our QMA female connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.15:1. This QMA bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our QMA female bulkhead connector PE45218 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 | | | 1.15:1 | |
| Insertion Loss | | | 0.12 | dB |
| Dielectric Withstanding Voltage (AC) | | | 1,000 | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |

Mechanical Specifications

Size

| | |
|------------|---------------------|
| Length | 0.787 in [19.99 mm] |
| Width/Dia. | 0.433 in [11.00 mm] |
| Weight | 0.01 lbs [4.54 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .268 inch D Hole PE45218](#)



QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .268 inch D Hole

RF Connectors Technical Data Sheet

PE45218

Material Specifications

| Description | Material | Plating |
|-----------------|------------------|---------|
| Contact | Beryllium Copper | Gold |
| Insulation | PTFE | |
| Outer Conductor | Brass | Gold |
| Body | Brass | Gold |
| Gasket | Silicone Rubber | |

Environmental Specifications

Temperature

Operating Range -40 to +105 deg C

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

Plotted and Other Data

Notes:

QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .268 inch D Hole 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.

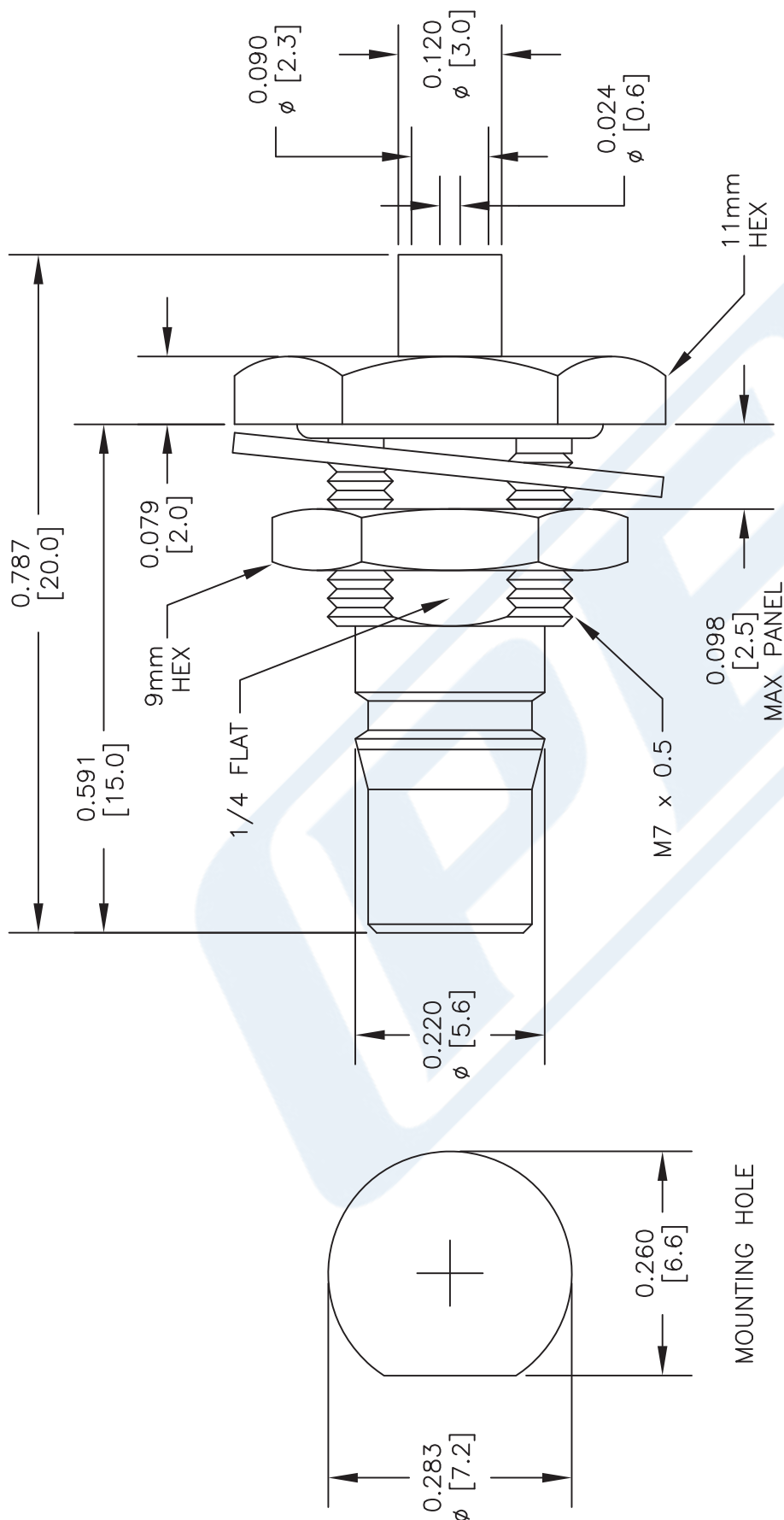
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URL: <https://www.pasternack.com/qma-female-pe-sr405al-pe-sr405fl-rg405-connector-pe45218-p.aspx>

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.

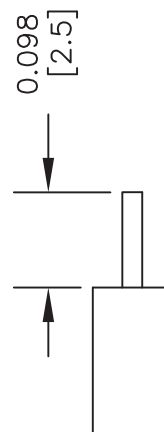
QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .268 inch D Hole

QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .268 inch D Hole



ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. PLACE CONTACT OVER CENTER CONDUCTOR AS SHOWN. SOLDER CONTACT TO CENTER CONDUCTOR AS SHOWN.
3. INSERT CABLE AND CONTACT INTO CONNECTOR BODY UNTIL FULLY ENGAGED. SOLDER BODY TO CABLE.



DWG TITLE

PE45218

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.

Phone: (949) 201-1920 | **Fax:** (949) 201-1743
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

CAD FILE 110216

SCALE N/A

SIZE A

2233

QMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405



PE44495

Configuration

- QMA Male Connector
- 50 Ohms
- Straight Body Geometry
- Solder/Solder Method
- Connector Interface Types: PE-SR405AL, PE-SR405FL, RG405

Features

- Max. Operating Frequency 18 GHz
- PIM levels lower than -130 dBc
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44495 , QMA, Standard, Connector is part of our full line of RF components available for same-day shipping. Our QMA male connector operates up to a maximum frequency of 18 GHz. The QMA male connector also has low passive intermodulation of -130 dBc.

Our QMA male connector PE44495 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 |
| Return Loss | | 23 | 32 | dB |
| Passive Intermodulation | | -130 | | dBc |
| Operating Voltage (AC) | | | 250 | Vrms |
| Test Voltage (AC) | | | 1,000 | Vrms |
| Inner Conductor DC Resistance | | | 3 | mOhms |
| Outer Conductor DC Resistance | | | 2.5 | mOhms |
| Insulation Resistance | 5,000 | | | MOhms |
| RF Leakage | 70 | | | dB |
| Impedance | | 50 | | Ohms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|------------------|---------|--------|----|----|----|-------|
| Frequency Range | DC to 3 | 3 to 6 | | | | GHz |
| Return Loss, Max | 32 | 23 | | | | dB |

Electrical Specification Notes:

Insertion Loss = $0.05 * \sqrt{f(\text{GHz})}$

QMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405



PE44495

Mechanical Specifications

| | |
|-----------------------|---------------------|
| Size | |
| Length | 0.67 in [17.02 mm] |
| Width | 0.413 in [10.49 mm] |
| Height | 0.413 in [10.49 mm] |
| Weight | 0.013 lbs [5.9 g] |
| Mating Cycles | 100 Cycles |
| Cable Retention Force | 13.48 lbs [6.11 kg] |
| Engagement Force | 5.62lbs [2.55kg] |
| Disengagement Force | 4.49lbs [2.04kg] |

Material Specifications

| Description | Material | Plating |
|-----------------|------------------|-----------|
| Contact | Beryllium Copper | Gold |
| Insulation | PTFE | |
| Outer Conductor | Bronze | Tri-Metal |
| Body | Brass | Gold |
| Coupling Nut | Brass | Nickel |

Environmental Specifications

| | |
|--------------------|--------------------------------|
| Temperature | |
| Operating Range | -40 to +85 deg C |
| Storage Range | -40 to +85 deg C |
| Vibration | IEC 60068-2-64 random |
| Thermal Shock | IEC 60169-1 16.4 (-40 / +85°C) |
| Salt Spray | IEC 60169-1 16.7 (48 hrs) |

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

Plotted and Other Data

Notes:

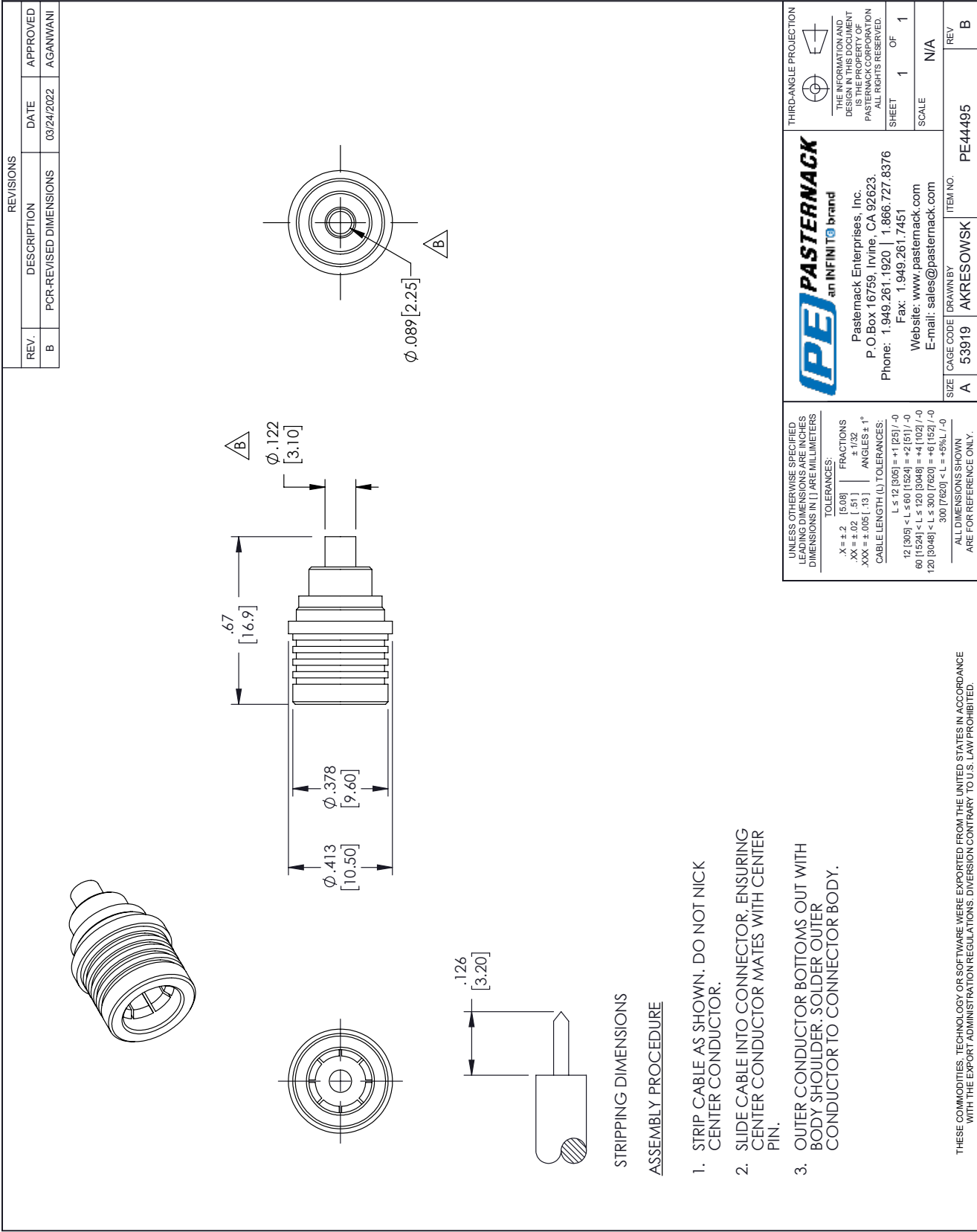
QMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405 PE44495](#)

URL: <https://www.pasternack.com/qma-male-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44495-p.aspx>

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PE44495 CAD Drawing
QMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405



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 | 22.5 | 54.9 | 81.2 | 120 | dB/100ft |
| | 49.21 | 73.82 | 180.12 | 266.4 | 393.7 | 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:

Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid 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.

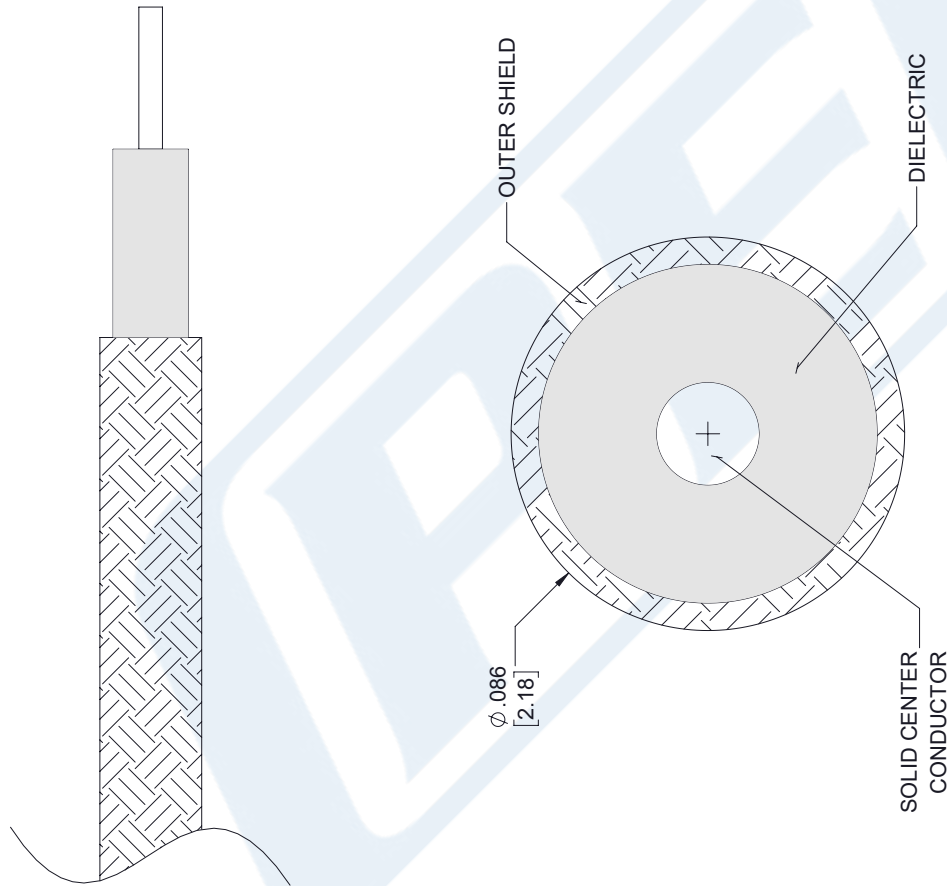
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable 086 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR405FL](#)

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



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

DWG TITLE

PE-SR405FL

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