



## SMA Male Connector Solder Attachment for RG405, PE-SR405FL, PE-SR405FLJ

### RF Connectors Technical Data Sheet

**PE45135**

#### Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG405, PE-SR405FL, PE-SR405FLJ Interface Type
- Solder/Solder Attachment
- 5/16 Inch Hex

#### Electrical Specifications

| Description            | Minimum | Typical | Maximum | Units |
|------------------------|---------|---------|---------|-------|
| Frequency Range        | DC      |         | 18      | GHz   |
| VSWR                   |         |         | 1.22:1  |       |
| Operating Voltage (AC) |         |         | 335     | Vrms  |

#### Mechanical Specifications

|               |                                 |
|---------------|---------------------------------|
| <b>Size</b>   |                                 |
| Length        | 0.441 in [11.2 mm]              |
| Width/Dia.    | 0.315 in [8.00 mm]              |
| Weight        | 0.013 lbs [5.9 g]               |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] |

#### Material Specifications

| Description  | Material | Plating                 |
|--------------|----------|-------------------------|
| Contact      | Brass    | Gold<br>50μ in. minimum |
| Insulation   | Teflon   |                         |
| Body         | Brass    | Gold<br>3μ in. minimum  |
| Coupling Nut | Brass    | Gold<br>3μ in. minimum  |

#### Environmental Specifications

##### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -65 to 165 deg C |
|-----------------|------------------|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Solder Attachment for RG405, PE-SR405FL, PE-SR405FLJ PE45135](#)



## SMA Male Connector Solder Attachment for RG405, PE-SR405FL, PE-SR405FLJ

### RF Connectors Technical Data Sheet

PE45135

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

REACH Compliant

12/17/2014

#### Plotted and Other Data

Notes:

SMA Male Connector Solder Attachment for RG405, PE-SR405FL, PE-SR405FLJ from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

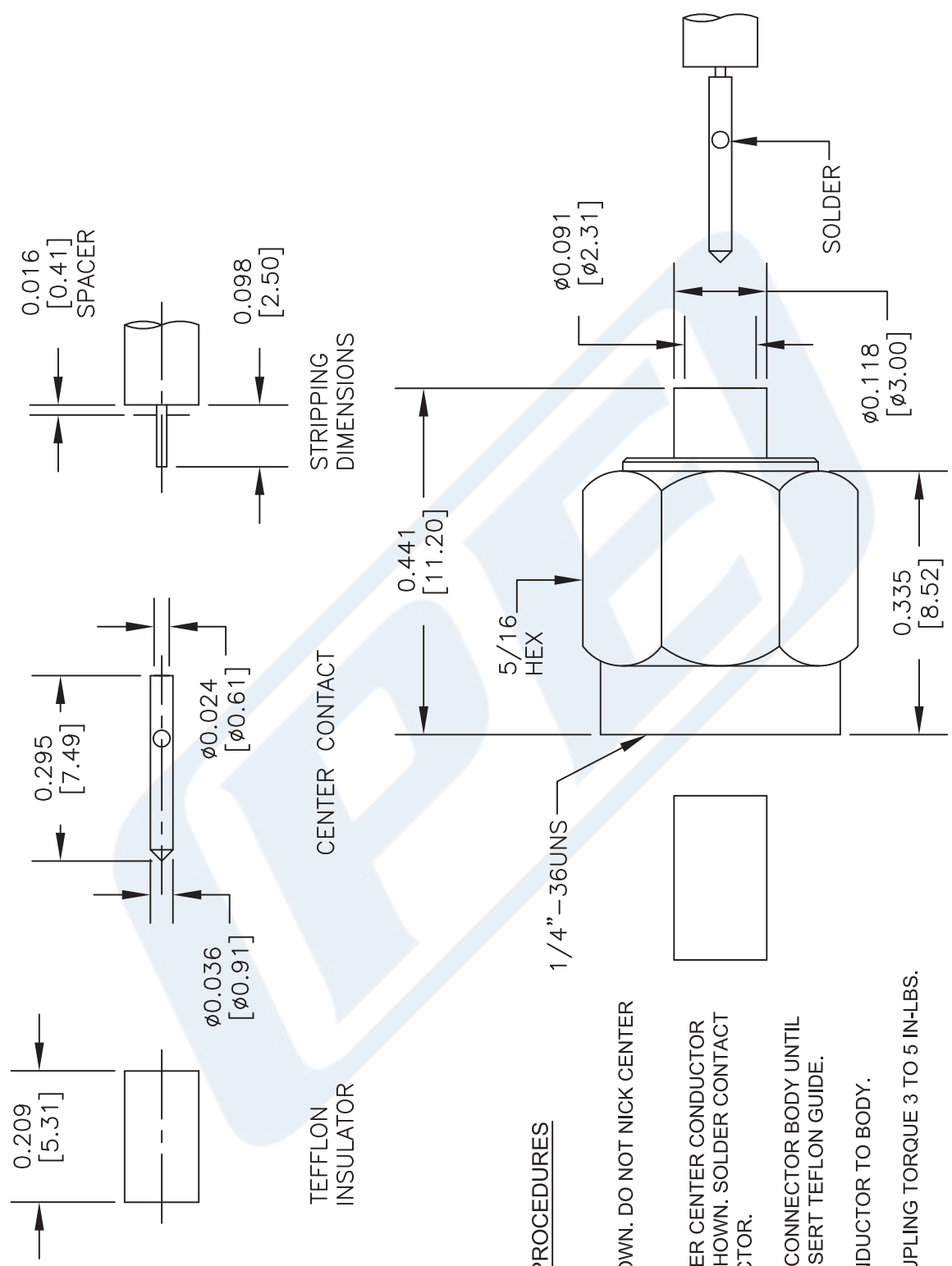
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Solder Attachment for RG405, PE-SR405FL, PE-SR405FLJ PE45135](http://www.pasternack.com/sma-male-rg405-pe-sr405fl-pe-sr405flj-connector-pe45135-p.aspx)

URL: <http://www.pasternack.com/sma-male-rg405-pe-sr405fl-pe-sr405flj-connector-pe45135-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.

PE45135 CAD Drawing

SMA Male Connector Solder Attachment for RG405, PE-SR405FL, PE-SR405FLJ



ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. PLACE CONTACT OVER CENTER CONDUCTOR USING SPACER AS SHOWN. SOLDER CONTACT TO CENTER CONDUCTOR.
3. INSERT CABLE INTO CONNECTOR BODY UNTIL FULLY ENGAGED. INSERT TEFLON GUIDE.
4. SOLDER OUTER CONDUCTOR TO BODY.
5. RECOMMENDED COUPLING TORQUE 3 TO 5 IN-LBS.

DWG TITLE

PE45135

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.

**PE PASTERNAK**  
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FSCM NO. 53919

CAD FILE 021115

SCALE N/A

SIZE A

200



## SMA Male Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405

### RF Connectors Technical Data Sheet

PE4025

#### Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- PE-SR405AL, PE-SR405FL, RG405 Interface Type
- Solder/Solder Attachment
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 12.4 GHz
- Excellent VSWR of 1.23:1
- Gold Plated Brass Contact
- 50  $\mu$ m minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4025 SMA male right angle connector with solder/solder attachment for PE-SR405AL, PE-SR405FL and RG405 is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 12.4 GHz and offers excellent VSWR of 1.23:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE4025 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                   |         |         | 1.23:1  |       |
| Operating Voltage (AC) |         |         | 335     | Vrms  |

#### Mechanical Specifications

##### Size

|               |                                 |
|---------------|---------------------------------|
| Length        | 0.65 in [16.51 mm]              |
| Width/Dia.    | 0.315 in [8.00 mm]              |
| Height        | 0.441 in [11.2 mm]              |
| Weight        | 0.015 lbs [6.8 g]               |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 PE4025](#)



## SMA Male Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405

### RF Connectors Technical Data Sheet

**PE4025**

#### Material Specifications

| Description  | Material        | Plating                   |
|--------------|-----------------|---------------------------|
| Contact      | Brass           | Gold<br>50 µin minimum    |
| Insulation   | PTFE            |                           |
| Body         | Stainless Steel | Gold<br>30 µin minimum    |
| Coupling Nut | Brass           | Nickel<br>100 µin minimum |

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +165 deg C

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

#### Plotted and Other Data

Notes:

#### Assembly Instruction

SMA Male Right Angle 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.

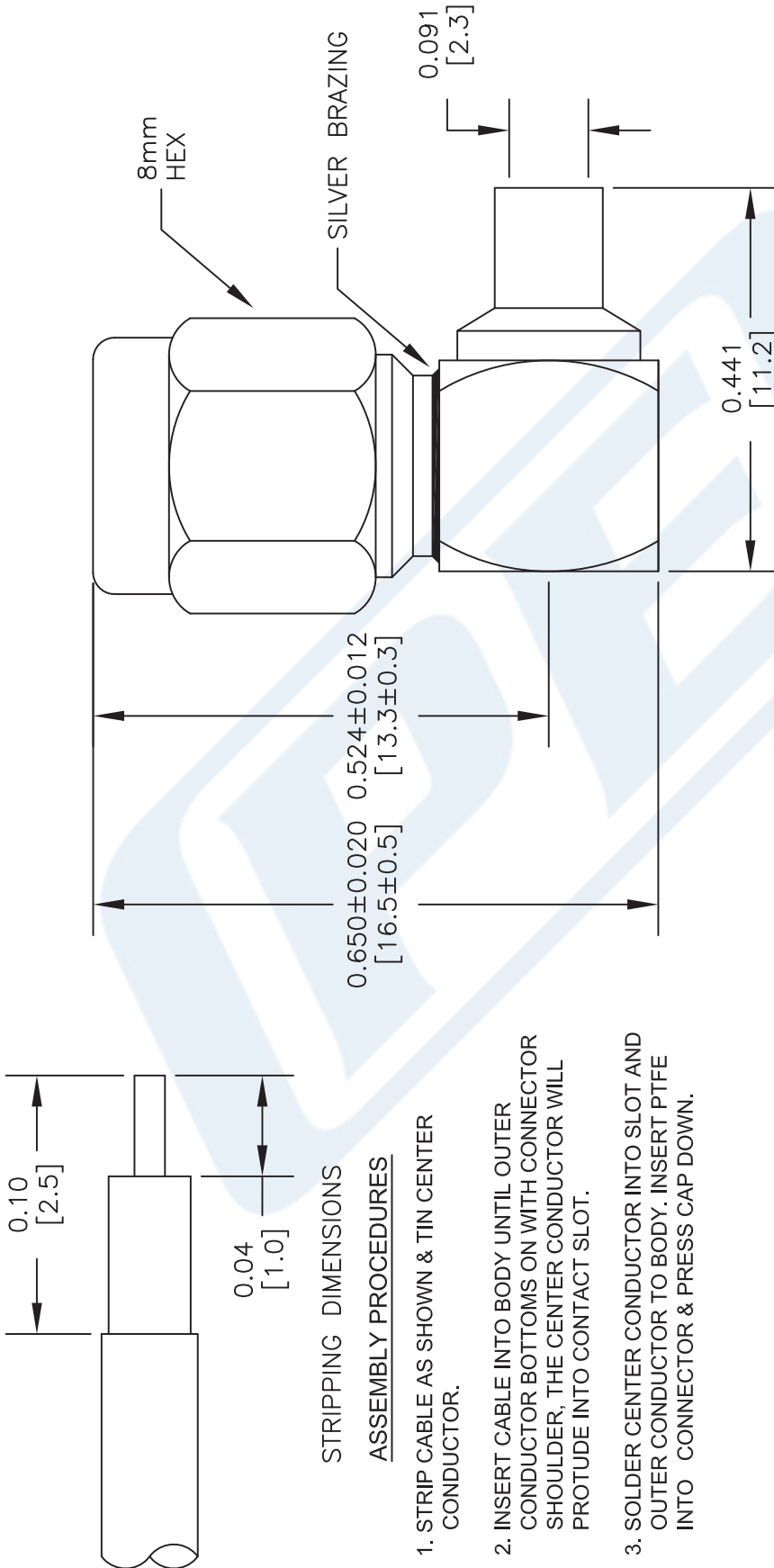
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 PE4025](#)

URL: <https://www.pasternack.com/sma-male-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe4025-p.aspx>

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# PE4025 CAD Drawing

SMA Male Right Angle Connector Solder Attachment  
for PE-SR405AL, PE-SR405FL, RG405



## STRIPPING DIMENSIONS ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR.
2. INSERT CABLE INTO BODY UNTIL OUTER CONDUCTOR BOTTOMS ON WITH CONNECTOR SHOULDER, THE CENTER CONDUCTOR WILL PROTRUDE INTO CONTACT SLOT.
3. SOLDER CENTER CONDUCTOR INTO SLOT AND OUTER CONDUCTOR TO BODY. INSERT PTFE INTO CONNECTOR & PRESS CAP DOWN.

## STANDARD TOLERANCES

.X ±0.2  
.XX ±0.1  
.XXX ±0.05

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE

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DWG TITLE

**PE4025**

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3. DIMENSIONS ARE IN INCHES [mm].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 060716

SCALE N/A

SIZE A

2233





## Formable 086 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP Jacket

### RF Cables Technical Data Sheet

PE-SR405FLJ

#### 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. FEP Jacket reduces the chance of shorting exposed contacts or circuit conductors.

#### Electrical Specifications

| Description                   | Minimum | Typical     | Maximum | Units        |
|-------------------------------|---------|-------------|---------|--------------|
| Frequency Range               | DC      |             | 61      | GHz          |
| Impedance                     |         | 50          |         | Ohms         |
| Velocity of Propagation       |         | 69.5        |         | %            |
| Time Delay                    |         | 1.43 [4.69] |         | ns/ft [ns/m] |
| Shielding Effectiveness       | 100     |             |         | dB           |
| Operating Voltage (AC)        |         |             | 1,500   | Vrms         |
| 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  |
| Input Power (CW), Max | 173.5 | 121.5 | 52.2   | 35.8  | 24.3  | Watts    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable PE-SR405FLJ Coax Cable with Outer Conductor and Black FEP Jacket PE-SR-405FLJ](#)



Formable 086 Semirigid Coax Cable with Tinned  
Braid Outer Conductor and Black FEP Jacket

RF Cables Technical Data Sheet

PE-SR405FLJ

**Mechanical Specifications**

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.105 in [2.67 mm]       |
| Weight                          | 0.015 lbs/ft [0.02 Kg/m] |
| Min. Bend Radius (Installation) | 0.5 in [12.7 mm]         |
| Min. Bend Radius (Repeated)     | 0.787 in [19.99 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                                 | 0.062 in [1.57 mm] |
| Outer Conductor | Tinned Copper Composite Braid        | 0.085 in [2.16 mm] |
| Jacket          | FEP, Black                           | 0.105 in [2.67 mm] |

**Environmental Specifications**

**Temperature**

|                 |                   |
|-----------------|-------------------|
| Operating Range | -55 to +125 deg C |
|-----------------|-------------------|

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

**Plotted and Other Data**

Notes:

Formable 086 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black 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.

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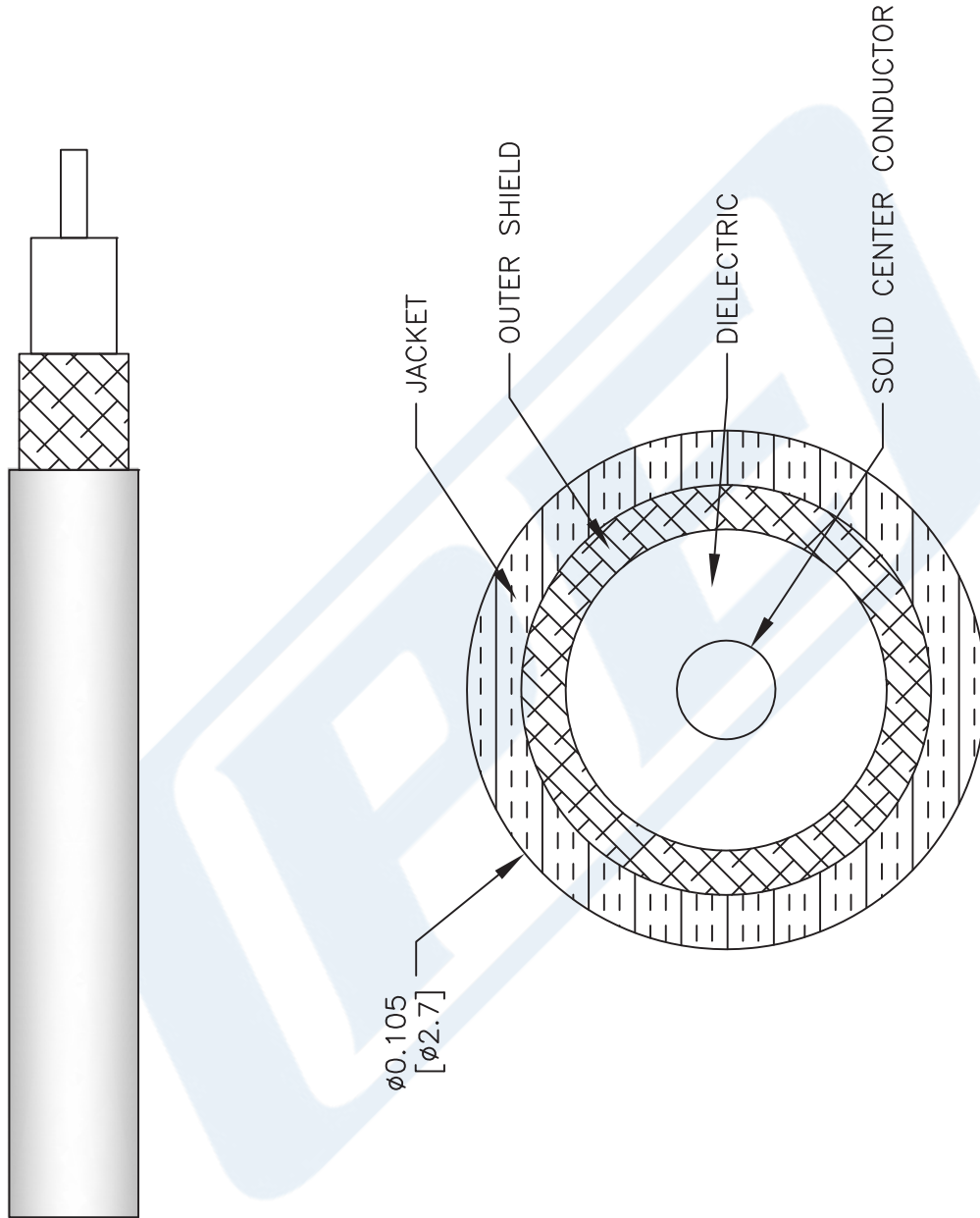
URL: <https://www.pasternack.com/50-ohm-formable-086-semirigid-tinned-braid-outer-conductor-fep-jacket-black-pe-sr405flj-p.aspx>

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# PE-SR405FLJ CAD Drawing

Formable 086 Semirigid Coax Cable with Tinned Braid  
Outer Conductor and Black FEP Jacket



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#### DWG TITLE

**PE-SR405FLJ**

CAGE CODE 53919

CAD FILE 062817

SCALE N/A

SIZE A

2233



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