



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

**RF Connectors**  
**Technical Data Sheet**

**PE4877**

**Configuration**

- MCX Plug Connector
- MIL-C-39012
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

**Features**

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.31:1
- Gold over Nickel Plated Brass Contact
- 30 µin minimum contact plating

**Applications**

- General Purpose Test
- Custom Cable Assemblies

**Description**

Pasternack's PE4877 MCX plug right angle 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 1.31:1. Its right angle body geometry allows for easier connections in tight spaces.

Our MCX plug right angle connector PE4877 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                                     |         |         | 1.31:1  |       |
| Operating Voltage (AC)                   |         |         | 335     | Vrms  |
| Dielectric Withstanding Voltage (AC)     |         |         | 1,000   | Vrms  |
| High Potential Voltage<br>at 4 and 7 MHz |         |         | 670     | Vrms  |
| Corona Discharge<br>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 Right Angle Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE4877](#)



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**RF Connectors**  
**Technical Data Sheet**

**PE4877**

**Performance by Frequency**

| Description         | F1      | F2 | F3 | F4 | F5 | Units |
|---------------------|---------|----|----|----|----|-------|
| Frequency Range     | DC to 1 |    |    |    |    | GHz   |
| Insertion Loss, Max | 0.2     |    |    |    |    | dB    |

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

**Mechanical Specifications**

**Size**

|               |                    |
|---------------|--------------------|
| Length        | 0.28 in [7.11 mm]  |
| Width/Dia.    | 0.24 in [6.10 mm]  |
| Height        | 0.311 in [7.9 mm]  |
| Weight        | 0.003 lbs [1.36 g] |
| Mating Cycles | 500 Cycles         |

**Material Specifications**

| Description | Material | Plating                            |
|-------------|----------|------------------------------------|
| Contact     | Brass    | Gold over Nickel<br>30 µin minimum |
| Insulation  | PTFE     |                                    |
| Body        | Brass    | Gold over Nickel<br>10 µin minimum |

**Environmental Specifications**

**Temperature**

|                 |                                      |
|-----------------|--------------------------------------|
| Operating Range | -65 to +165 deg C                    |
| Humidity        | MIL-STD-202, Method 106              |
| Shock           | MIL-STD-202, Method 213, Condition B |
| Vibration       | MIL-STD-202, Method 204, Condition B |
| Thermal Shock   | MIL-STD-202, Method 107, Condition F |
| Salt Spray      | MIL-STD-202, Method 101, Condition B |

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

**Plotted and Other Data**

Notes:

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**PE4877**

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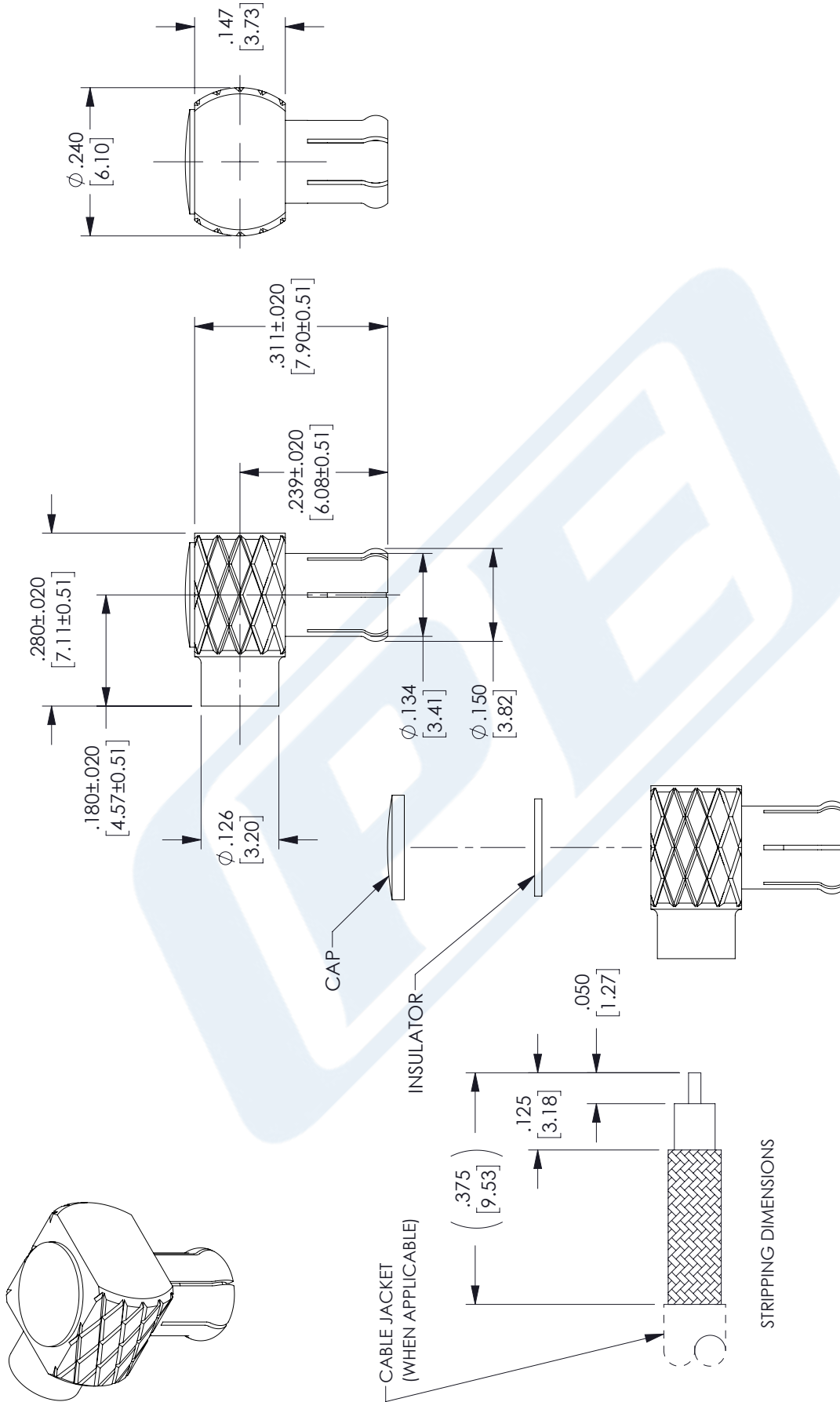
URL: <https://www.pasternack.com/mcx-plug-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe4877-p.aspx>

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# PE4877 CAD Drawing

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

| REVISIONS |                     |            |          |
|-----------|---------------------|------------|----------|
| REV.      | DESCRIPTION         | DATE       | APPROVED |
| B         | PCR PE4877 20220527 | 06/09/2022 | AGANWANI |



## ASSEMBLY PROCEDURE

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. INSERT CABLE INTO BODY UNTIL OUTER CONDUCTOR BOTTOMS OUT. SOLDER CENTER CONDUCTOR IN PLACE.
3. SOLDER OUTER CONDUCTOR TO BODY. INSTALL INSULATOR AND PRESS DOWN CAP.

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.

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

TOLERANCES:  
 .X = ±.2 [5.08] FRACTIONS ±1/32  
 .XX = ±.02 [.51] ±.1/32  
 .XXX = ±.005 [.13] ANGLES ± 1°  
 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%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

REV B



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ITEM NO. PE4877  
 DRAWN BY AKRESOWSK  
 CAGE CODE A 53919



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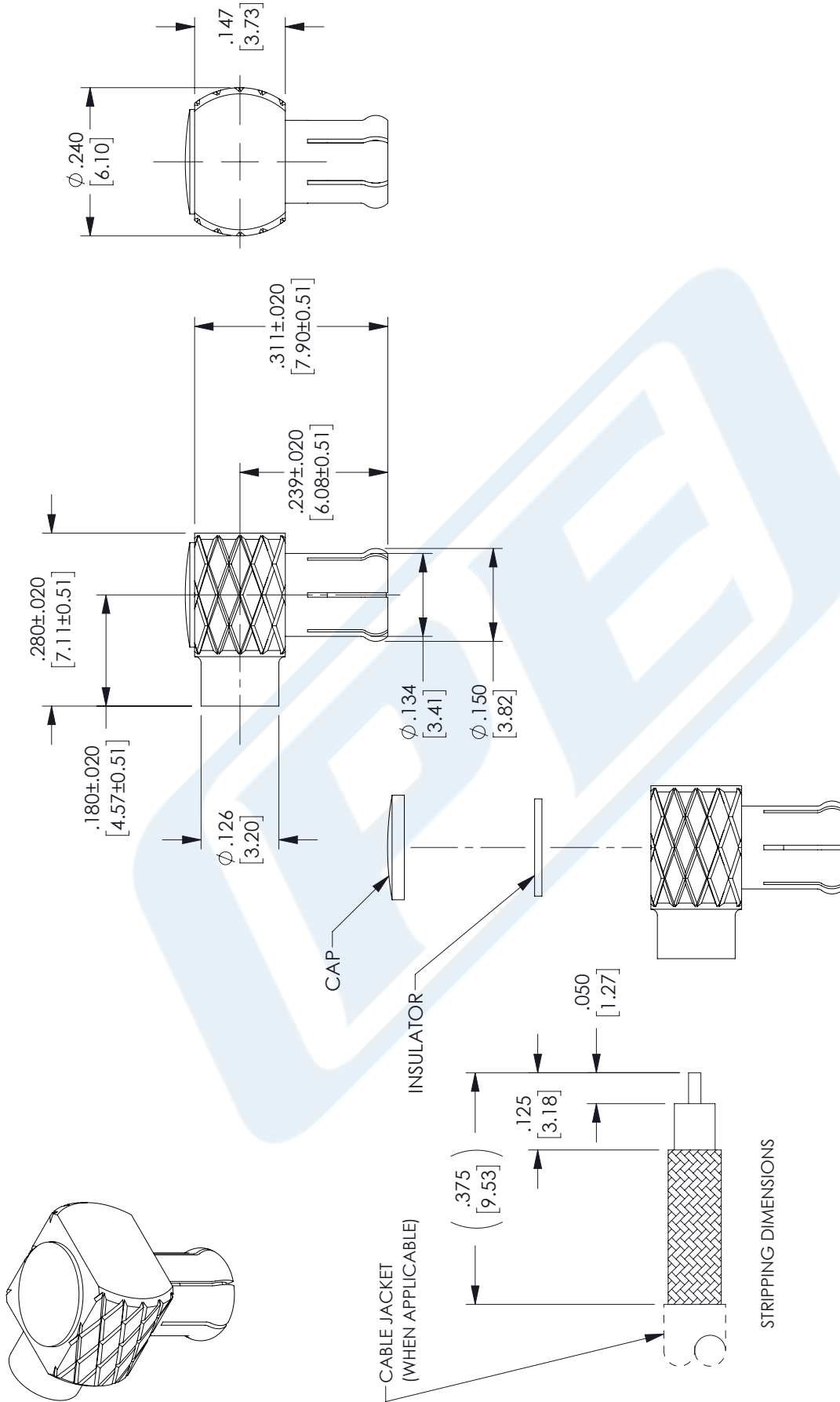
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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV B

**PE PASTERNAK**  
an INFINITI® brand

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120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5%L / -0

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SIZE CAGE CODE DRAWN BY ITEM NO. PE4877

A 53919 AKRESOWSK

## ASSEMBLY PROCEDURE

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
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# 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:

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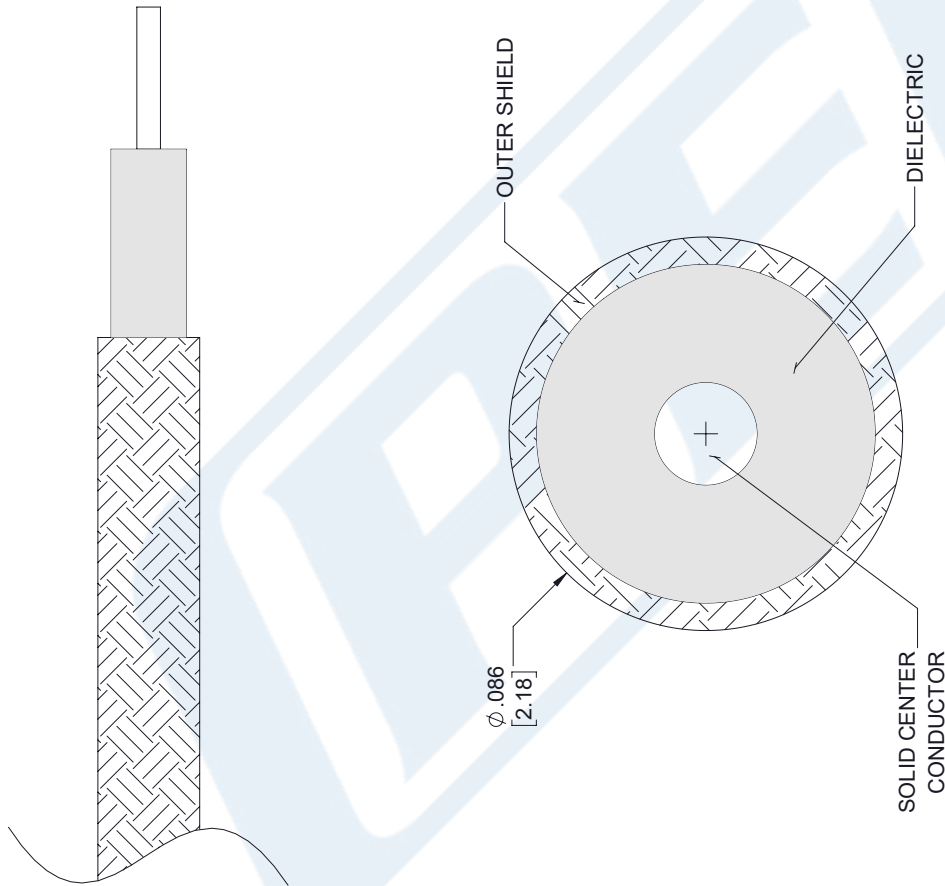
URL: <https://www.pasternack.com/formable-0.085-semirigid-replacement-50-ohm-coax-cable-tinned-braid-pe-sr405fl-p.aspx>

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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](http://www.pasternack.com) | **E-Mail:** [sales@pasternack.com](mailto:sales@pasternack.com)

DWG TITLE

PE-SR405FL

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 112117

SCALE N/A

SIZE A

7361