



SSMC Plug Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

PE45365

### Configuration

- SSMC Plug Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 Interface Type
- Clamp/Solder Attachment

### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.38:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204
- Reliable threaded coupling
- Small SSMC connector form factor (50% smaller than SMA, radially)
- IEC 60169-20 SSMC connector interface
- In stock and ready to ship

### Applications

- General Purpose Test
- Custom Cable Assemblies
- Avionics
- A/D Modules
- Data Acquisition
- Software defined radio (SDR)
- RADAR/SONAR
- Ultra Wideband Digital Receivers
- Medical equipment

### Description

Pasternack's PE45365 SSMC plug 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 SSMC plug connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.38:1.

Our SSMC plug connector PE45365 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                            |         |         | 1.38:1  |       |
| Insertion Loss                  |         |         | 0.3     | dB    |
| Operating Voltage (AC)          |         |         | 250     | Vrms  |
| High Potential Voltage<br>5 MHz |         |         | 400     | Vrms  |
| Inner Conductor DC Resistance   |         |         | 4       | mOhms |
| Outer Conductor DC Resistance   |         |         | 1       | mOhms |
| Insulation Resistance           | 1,000   |         |         | MOhms |
| RF Leakage                      | -50     |         |         | dB    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE45365](#)



SSMC Plug Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

PE45365

### Mechanical Specifications

#### Size

Length

0.53 in [13.46 mm]

Width/Dia.

0.156 in [3.96 mm]

Mating Cycles

500 Cycles

Mating Torque

1.75 to 2 in-lbs [0.20 to 0.23 Nm]

### Material Specifications

| Description  | Material         | Plating             |
|--------------|------------------|---------------------|
| Contact      | Beryllium Copper | Gold<br>MIL-G-45204 |
| Insulation   | Teflon           |                     |
| Body         | Beryllium Copper | Gold<br>MIL-G-45204 |
| Coupling Nut | Beryllium Copper | Gold<br>MIL-G-45204 |

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 deg C

Shock

Method 213, Condition B, 75G @6ms @1/2 sine

Vibration

Method 204, Condition D (20G)

Salt Spray

Method 101, Condition B, 5% salt solution

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

### Plotted and Other Data

Notes:

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SSMC Plug Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

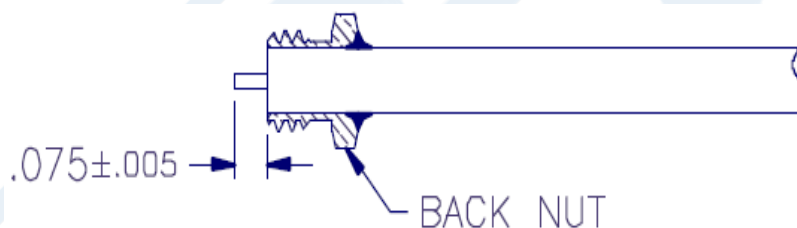
PE45365

### Assembly Instruction

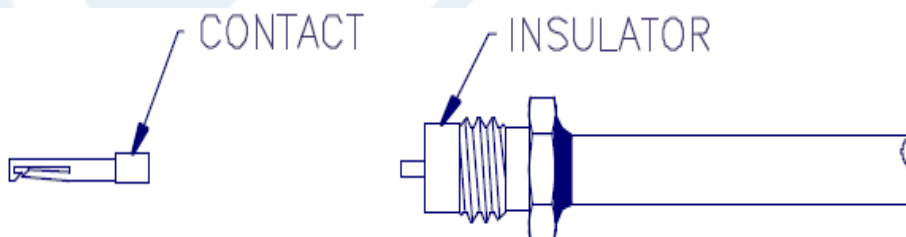
#### Assembly Instructions



1. TRIM CABLE JACKET ONLY, AS SHOWN ABOVE.



2. SLIDE BACK NUT ONTO CABLE UNTIL TRIMMED END OF JACKET IS FLUSH WITH FRONT OF NUT. SOLDER NUT TO CABLE.
3. TRIM DIELECTRIC AS SHOWN.



4. INSTALL INSULATOR OVER CABLE CENTER CONDUCTOR.
5. SOLDER CONTACT TO CENTER CONDUCTOR.
6. INSERT CABLE ASSEMBLY INTO CONNECTOR BODY AND TIGHTEN TO 35-45 INCH-OUNCES TORQUE.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE45365](#)



SSMC Plug Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## RF Connectors Technical Data Sheet

PE45365

SSMC Plug 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.

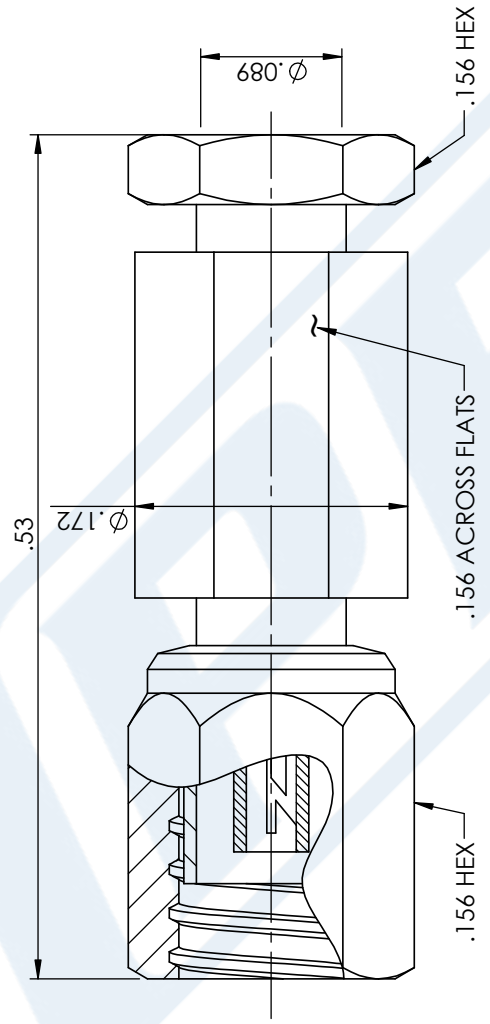
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE45365](https://www.pasternack.com/ssmc-plug-pe-sr405al-pe-sr405fl-pe-sr405tn-rg405-connector-pe45365-p.aspx)

URL: <https://www.pasternack.com/ssmc-plug-pe-sr405al-pe-sr405fl-pe-sr405tn-rg405-connector-pe45365-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.

PE45365 CAD Drawing

SSMC Plug Connector Clamp/Solder Attachment for PE-SR405AL,  
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



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

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

**PE**  
THE ENGINEER'S RF SOURCE

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

|           |         |
|-----------|---------|
| DWG TITLE | PE45365 |
| CAGE CODE | 53919   |

|                                                                                                                                                                                     |        |       |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|--------|
| NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |        |       |        |
| CAD FILE                                                                                                                                                                            | 052217 | SCALE | N/A    |
| SIZE                                                                                                                                                                                | A      |       | GF0006 |



SSMA Female Bulkhead Connector Solder Attachment For  
PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole

TECHNICAL DATA SHEET

PE44390

**SSMA Female Bulkhead Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole**

**Configuration**

|                                          |                               |
|------------------------------------------|-------------------------------|
| Connector                                | SSMA Female                   |
| Connector Specification                  | MIL-C-39012                   |
| Connector Interface Type                 | PE-SR405AL, PE-SR405FL, RG405 |
| Cable Attachment Method (Shield/Contact) | Solder/Solder                 |
| Body Style                               | Straight                      |
| Mount Method                             | Bulkhead                      |

**Electrical Specifications**

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

**Mechanical Specifications**

**Temperature**

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

**Size**

|                     |              |
|---------------------|--------------|
| Length, in [mm]     | 0.685 [17.4] |
| Width/Dia., in [mm] | 0.375 [9.53] |
| Weight, lbs [g]     | 0.008 [3.63] |

**Connector**

|                               |             |
|-------------------------------|-------------|
| Type                          | SSMA Female |
| Contact Material and Plating  | Gold        |
| Contact Plating Specification | MIL-G-45204 |
| Body Material and Plating     | Brass, Gold |
| Body Plating Specification    | MIL-G-45204 |
| Dielectric Type               | Teflon      |

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

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMA Female Bulkhead Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole PE44390](#)

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SSMA Female Bulkhead Connector Solder Attachment For  
PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole

TECHNICAL DATA SHEET

PE44390

**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

SSMA Female Bulkhead Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole 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.

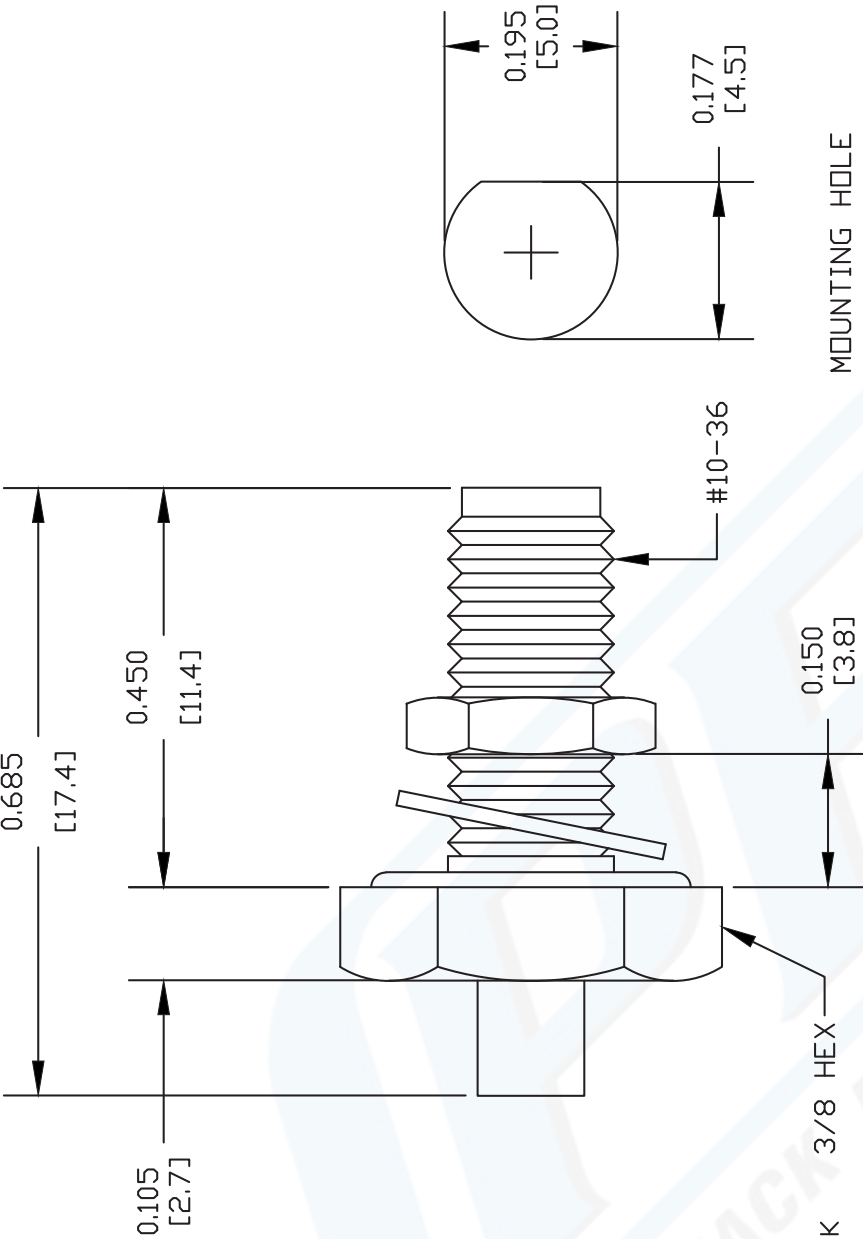
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMA Female Bulkhead Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole PE44390](http://www.pasternack.com/ssma-female-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44390-p.aspx)

URL: <http://www.pasternack.com/ssma-female-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44390-p.aspx>

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PE44390 CAD Drawing

SSMA Female Bulkhead Connector Solder Attachment For  
PE-SR405AL, PE-SR405FL, RG405, .177 inch D Hole



MOUNTING HOLE

- 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.  
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  
**PE44390**

FSCM NO. 53919

CAD FILE 101403

SCALE N/A

SIZE A

127

**PE PASTERNAK®**  
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## Formable PE-SR405FLJ Coax Cable with Outer Conductor and Black FEP Jacket



### 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

#### Applications

#### Description

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly preformed 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      |             | 20      | 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] |
| Power@ 1GHz                   |         |             | 121.5   | Watts        |

#### 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    |

## Formable PE-SR405FLJ Coax Cable with Outer Conductor and Black FEP Jacket



### PE-SR405FLJ

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.105 in [2.67 mm]       |
| Weight                          | 0.014 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 Strand | 0.02 in [0.51 mm]  |
| Conductor Type  | Solid                               |                    |
| Dielectric      | PTFE                                | 0.062 in [1.57 mm] |
| Outer Conductor | Tinned Copper Composite Braid       |                    |
| 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:

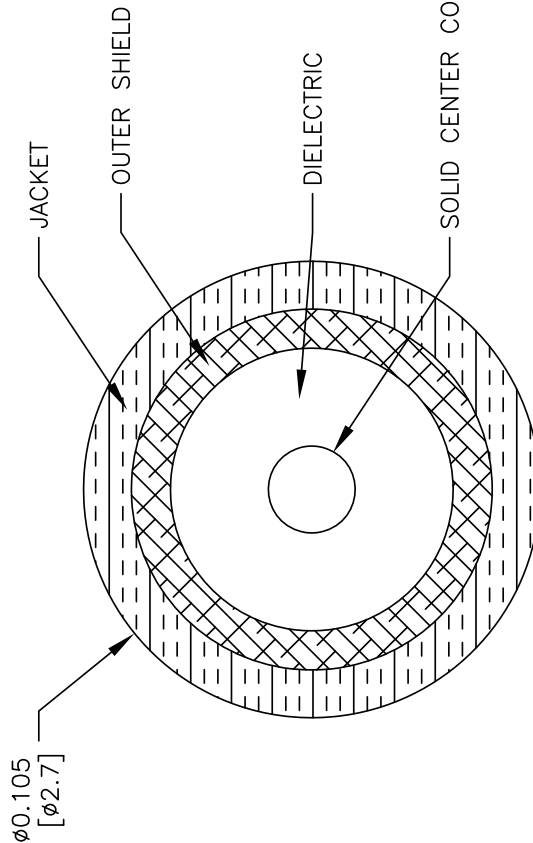
Formable PE-SR405FLJ Coax Cable with Outer Conductor and Black FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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-SR405FLJ](#)

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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## Formable PE-SR405FLJ Coax Cable with Outer Conductor and Black FEP Jacket



**PE-SR405FLJ**

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