



## SSMC Plug to SMA Male Cable 150 cm Length Using PE-SR405FLJ Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

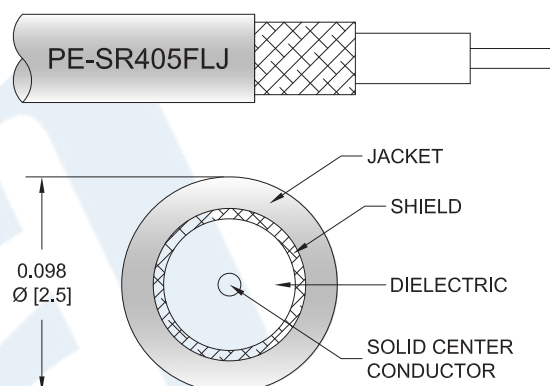
PE3W04384/HS-150CM

#### Configuration

- Connector 1: SSMC Plug
- Connector 2: SMA Male
- Cable Type: PE-SR405FLJ

#### Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W04384/HS-150CM SSMC plug to SMA male 150 cm cable using PE-SR405FLJ coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SSMC to SMA cable assembly has a plug to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W04384/HS-150CM SSMC plug to SMA male cable assembly operates to 12.4 GHz.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug to SMA Male Cable 150 cm Length Using PE-SR405FLJ Coax with HeatShrink PE3W04384/HS-150CM](#)



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#### Electrical Specifications

| Description                          | Minimum | Typical       | Maximum | Units              |
|--------------------------------------|---------|---------------|---------|--------------------|
| Frequency Range                      | DC      |               | 12.4    | GHz                |
| VSWR                                 |         |               | 1.4:1   |                    |
| Velocity of Propagation              |         | 69.5          |         | %                  |
| RF Shielding                         | 100     |               |         | dB                 |
| Group Delay                          |         | 1.43 [4.69]   |         | ns/ft [ns/m]       |
| Capacitance                          |         | 29 [95.14]    |         | pF/ft [pF/m]       |
| DC Resistance Inner Conductor<br>Km] |         | 65.7 [215.55] |         | Ohms/1000ft [Ohms/ |
| DC Resistance Outer Conductor<br>Km] |         | 10.2 [33.46]  |         | Ohms/1000ft [Ohms/ |
| Operating Voltage (AC)               |         |               | 250     | Vrms               |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 1    | 2    | 4    | 8    | 12.4 | GHz   |
| Insertion Loss (Max.) | 1.15 | 1.23 | 1.35 | 1.55 | 1.91 | dB    |
| Mismatch Loss (Est.)  | 3.65 | 4.63 |      |      |      | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated loss of 0.2dB of connector loss.

#### Mechanical Specifications

##### Cable Assembly

|          |                      |
|----------|----------------------|
| Length*  | 59.05 in [149.99 cm] |
| Diameter | 0.315 in [8 mm]      |

##### Cable

|                                      |                               |
|--------------------------------------|-------------------------------|
| Cable Type                           | PE-SR405FLJ                   |
| Impedance                            | 50 Ohms                       |
| Inner Conductor Type                 | Solid                         |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver     |
| Dielectric Type                      | PTFE                          |
| Number of Shields                    | 1                             |
| Outer Conductor Material and Plating | Tinned Copper Composite Braid |

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|                              |                     |
|------------------------------|---------------------|
| Jacket Material              | FEP, Black          |
| Jacket Diameter              | 0.105 in [2.67 mm]  |
| One Time Minimum Bend Radius | 0.5 in [12.7 mm]    |
| Repeated Minimum Bend Radius | 0.787 in [19.99 mm] |

#### Connectors

| Description                        | Connector 1            | Connector 2           |
|------------------------------------|------------------------|-----------------------|
| Type                               | SSMC Plug              | SMA Male              |
| Specification                      |                        | MIL-STD-348A          |
| Impedance                          | 50 Ohms                | 50 Ohms               |
| Mating Cycles                      | 500                    | 500                   |
| Contact Material and Plating       | Beryllium Copper, Gold | Brass, Gold           |
| Contact Plating Specification      | MIL-G-45204            | 50 µin minimum        |
| Dielectric Type                    | Teflon                 | PTFE                  |
| Body Material and Plating          | Beryllium Copper, Gold | Stainless Steel, Gold |
| Body Plating Specification         | MIL-G-45204            | 10 µin minimum        |
| Coupling Nut Material and Plating  | Beryllium Copper, Gold | Brass, Nickel         |
| Coupling Nut Plating Specification | MIL-G-45204            | 100 µin minimum       |
| Hex Size                           |                        | 5/16 inch             |
| Torque                             | 1.75 in-lbs [0.2 Nm]   | 3 in-lbs [0.34 Nm]    |

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

#### Environmental Specifications

##### Temperature

Operating Range -55 to +125 deg C

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug to SMA Male Cable 150 cm Length Using PE-SR405FLJ Coax with HeatShrink PE3W04384/HS-150CM](#)



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### RF Cable Assemblies Technical Data Sheet

PE3W04384/HS-150CM

#### How to Order

Part Number Configuration:

PE3W04384/HS

- xx

uu

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3W04384/HS-12 = 12 inches long cable  
PE3W04384/HS-100cm = 100 cm long cable

SSMC Plug to SMA Male Cable 150 cm Length Using PE-SR405FLJ Coax with HeatShrink 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 to SMA Male Cable 150 cm Length Using PE-SR405FLJ Coax with HeatShrink PE3W04384/HS-150CM](https://www.pasternack.com/ssmc-plug-sma-male-pe-sr405flj-cable-assembly-pe3w04384-hs-150cm-p.aspx)

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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.

### SSMC Plug to SMA Male Cable 150 cm Length Using PE-SR405FLJ Coax with HeatShrink

Technical drawing of a cable assembly. The drawing shows a central cable with a braid shield and an inner conductor. The cable is terminated at both ends with connectors. The left end is labeled "SSMC PLUG" and features a "CONTACT" at the bottom. The right end is labeled "SMA MALE" and features a "CONTACT" at the top. The cable is labeled "PE-SR405FLJ". A "HEAT SHRINK SLEEVE" is shown over the cable, with a dimension of ".156 HEX" and "2X" indicated. A dimension of ".156 FLATS" is also shown. A dimension of "5/16 HEX" is indicated for the SMA connector. A dimension of "LENGTH MEASURED FROM CONTACT TO CONTACT" is shown at the top.

|                                                                                                  |        |             |                                                                                                           |       |          |                                                                                                                       |     |  |
|--------------------------------------------------------------------------------------------------|--------|-------------|-----------------------------------------------------------------------------------------------------------|-------|----------|-----------------------------------------------------------------------------------------------------------------------|-----|--|
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| THIRD-ANGLE PROJECTION                                                                           |        |             | www.pasternack.com   e-mail: sales@pasternack.com                                                         |       |          |                                                                                                                       |     |  |
|               |        |             | SIZE                                                                                                      | CAGE  | DRAWN BY | PART NUMBER                                                                                                           | REV |  |
|                                                                                                  |        |             | A                                                                                                         | 53919 | K.DANG   | PE3W04384/H5                                                                                                          | A   |  |

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