



## SMB Plug to SSMA Male Cable Using RG316 Coax with HeatShrink in 48 Inch

### RF Cable Assemblies Technical Data Sheet

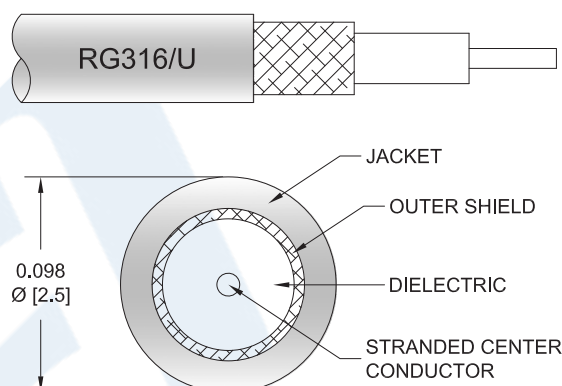
**PE39207/HS-48**

#### Configuration

- Connector 1: SMB Plug
- Connector 2: SSMA Male
- Cable Type: RG316

#### Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE39207/HS-48 SMB plug to SSMA male 48 inch cable using RG316 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMB to SSMA cable assembly has a plug to male gender configuration with 50 ohm flexible RG316 coax. The PE39207/HS-48 SMB plug to SSMA male cable assembly operates to 3 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: [SMB Plug to SSMA Male Cable Using RG316 Coax with HeatShrink in 48 Inch PE39207/HS-48](#)



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#### Electrical Specifications

| Description             | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------|---------|-------|
| Frequency Range         | DC      |         | 3       | GHz   |
| VSWR                    |         |         | 1.5:1   |       |
| Velocity of Propagation |         | 69      |         | %     |
| Operating Voltage (AC)  |         |         | 250     | Vrms  |
| Jacket Spark            |         |         | 2,000   | Vrms  |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 3    | GHz   |
| Insertion Loss (Typ.) | 0.64 | 0.84 | 1.16 | 1.72 | 2.52 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Length\* 48 in [121.92 cm]

Weight 0.055 lbs [24.95 g]

##### Cable

Cable Type RG316  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.102 in [2.59 mm]

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#### Connectors

| Description                        | Connector 1            | Connector 2     |
|------------------------------------|------------------------|-----------------|
| Type                               | SMB Plug               | SSMA Male       |
| Specification                      | MIL-STD-348A           | MIL-STD-348A    |
| Impedance                          | 50 Ohms                | 50 Ohms         |
| Contact Material and Plating       | Beryllium Copper, Gold | Brass, Gold     |
| Contact Plating Specification      | 30 µin minimum         | 50 µin minimum  |
| Dielectric Type                    | PTFE                   | PTFE            |
| Body Material and Plating          | Brass, Nickel          | Brass, Nickel   |
| Body Plating Specification         | 100 µin minimum        | 100 µin minimum |
| Coupling Nut Material and Plating  | Brass, Nickel          | Brass, Nickel   |
| Coupling Nut Plating Specification | 100 µin minimum        | 100 µin minimum |
| Hex Size                           |                        | 1/4 inch        |

#### Environmental Specifications

##### Temperature

Operating Range -55 to +165 deg C

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

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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### RF Cable Assemblies Technical Data Sheet

**PE39207/HS-48**

#### How to Order

Part Number Configuration:

**PE39207/HS**

- **xx**

**uu**

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

Example: PE39207/HS-12 = 12 inches long cable  
PE39207/HS-100cm = 100 cm long cable

SMB Plug to SSMA Male Cable Using RG316 Coax with HeatShrink in 48 Inch 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: [SMB Plug to SSMA Male Cable Using RG316 Coax with HeatShrink in 48 Inch PE39207/HS-48](#)

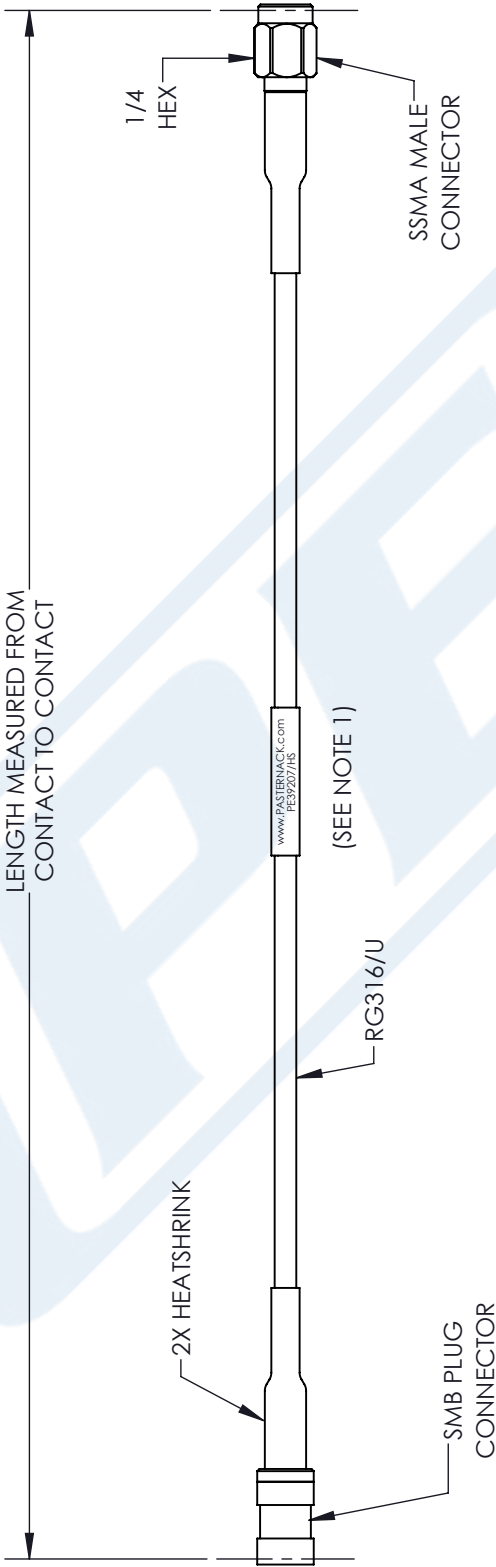
URL: <https://www.pasternack.com/smb-plug-to-ssma-male-cable-using-rg316-with-heatshrink-pe39207-hs-48-p.aspx>

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.

PE39207/HS-48 CAD Drawing

SMB Plug to SSMA Male Cable Using RG316 Coax with HeatShrink in 48 Inch

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 08/10/2022 | AGANWANI |



NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM END OF CONNECTOR

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

TOLERANCES:

|               |         |             |
|---------------|---------|-------------|
| X = ± .2      | [ .08 ] | FRACTIONS   |
| .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% / -0      |

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
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SHEET 1 OF 1

SCALE N/A

REV A

SIZE A

CAGE CODE 53919

DRAWN BY BPUCHASKI

ITEM NO. PE39207/HS

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