

SSMB Plug to BNC Male Cable 100 CM  
Length Using RG316 Coax , LF Solder



RF Cable Assemblies Technical Data Sheet

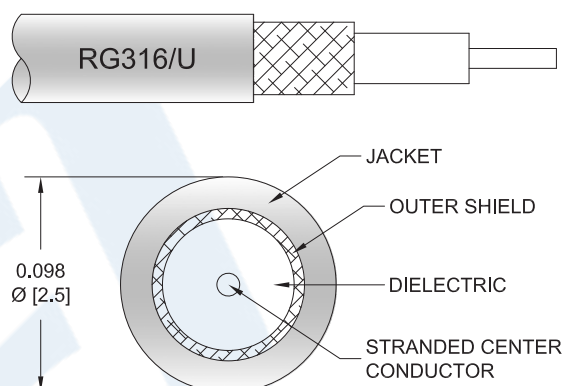
PE3C3408LF-100CM

### Configuration

- Connector 1: SSMB Plug
- Connector 2: BNC Male
- Cable Type: RG316

### Features

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



### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3C3408LF-100CM SSMB plug to BNC male 100 cm 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 SSMB to BNC cable assembly has a plug to male gender configuration with 50 ohm flexible RG316 coax. The PE3C3408LF-100CM SSMB plug to BNC 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.

### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 3       | GHz             |
| VSWR                          |         |              | 1.5:1   |                 |
| Velocity of Propagation       |         | 69           |         | %               |
| Capacitance                   |         | 29.4 [96.46] |         | pF/ft [pF/m]    |
| DC Resistance Inner Conductor |         | 8.41 [27.59] |         | Ω/1000ft [Ω/Km] |
| Operating Voltage (AC)        |         |              | 250     | Vrms            |
| Jacket Spark                  |         |              | 2,000   | Vrms            |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Plug to BNC Male Cable 100 CM Length Using RG316 Coax , LF Solder PE3C3408LF-100CM](#)



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### Specifications by Frequency

| Description           | F1    | F2   | F3    | F4    | F5    | Units |
|-----------------------|-------|------|-------|-------|-------|-------|
| Frequency             | 0.25  | 0.5  | 1     | 2.5   | 3     | GHz   |
| Insertion Loss (Max.) | 0.724 | 0.98 | 1.446 | 1.938 | 2.102 | dB    |

### Electrical Specification Notes:

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

### Mechanical Specifications

#### Cable Assembly

Length\* 39.37 in [100 cm]  
Diameter 0.57 in [14.48 mm]

#### 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                                  | SSMB Plug              | BNC 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 $\mu$ in minimum    | 50 $\mu$ in. minimum  |
| Dielectric Type                       | PTFE                   | Teflon                |
| Outer Conductor Material and Plating  | Beryllium Copper, Gold |                       |
| Outer Conductor Plating Specification | 30 $\mu$ in minimum    |                       |
| Body Material and Plating             | Brass, Gold            | Brass, Nickel         |
| Body Plating Specification            | 30 $\mu$ in minimum    | 100 $\mu$ in. minimum |
| Coupling Nut Material and Plating     |                        | Brass, Nickel         |
| Coupling Nut Plating Specification    |                        | 100 $\mu$ in. minimum |

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 +165 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: [SSMB Plug to BNC Male Cable 100 CM Length Using RG316 Coax , LF Solder PE3C3408LF-100CM](#)

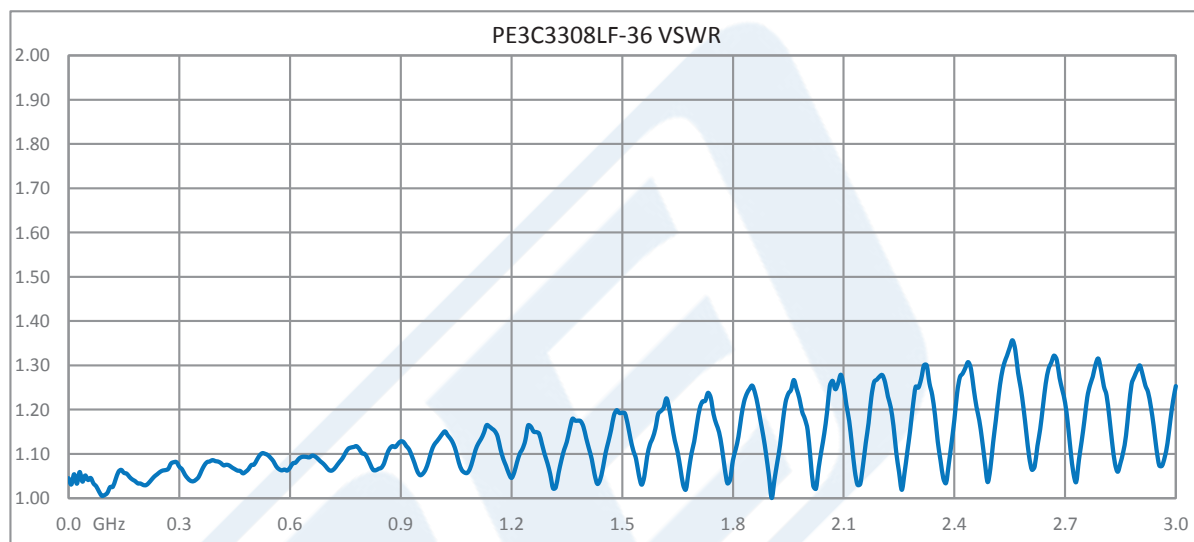


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### Typical Performance Data



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## RF Cable Assemblies Technical Data Sheet

PE3C3408LF-100CM

### How to Order

Part Number Configuration:

PE3C3408LF

- xx

uu

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

Example: PE3C3408LF-12 = 12 inches long cable  
PE3C3408LF-100cm = 100 cm long cable

SSMB Plug to BNC Male Cable 100 CM Length Using RG316 Coax , LF Solder 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.

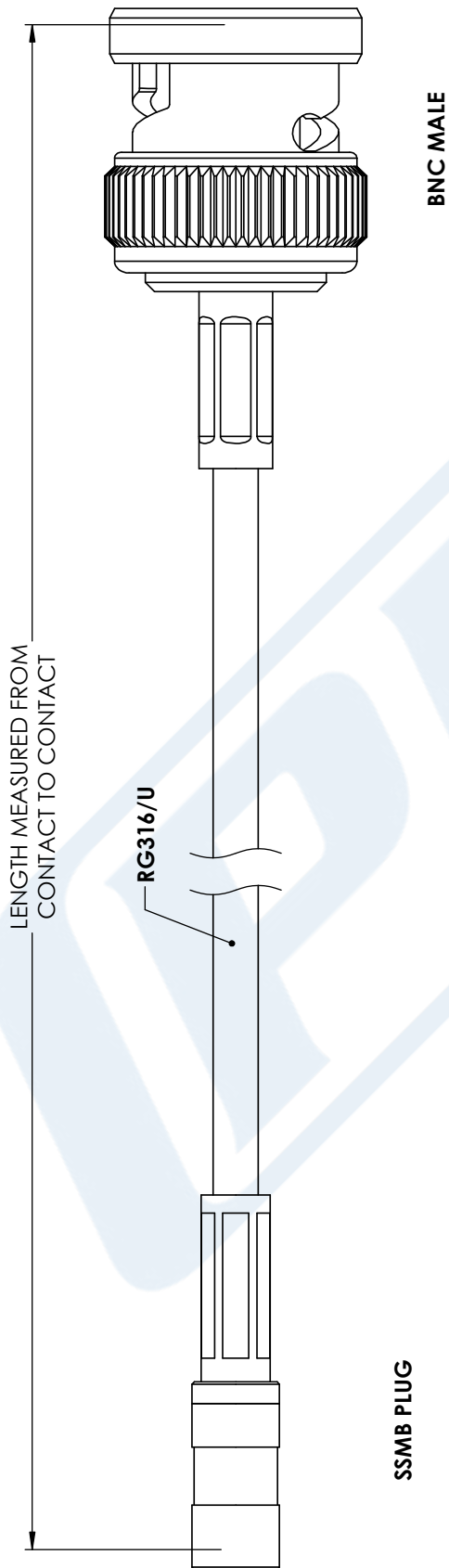
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Plug to BNC Male Cable 100 CM Length Using RG316 Coax , LF Solder PE3C3408LF-100CM](https://www.pasternack.com/ssmb-plug-bnc-male-rg316u-cable-assembly-pe3c3408lf-100cm-p.aspx)

URL: <https://www.pasternack.com/ssmb-plug-bnc-male-rg316u-cable-assembly-pe3c3408lf-100cm-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.

PE3C3408LF-100CM CAD Drawing

SSMB Plug to BNC Male Cable 100 CM Length Using RG316 Coax , LF Solder



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

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

PE

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THE ENGINEER'S RF SOURCE

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|           |            |
|-----------|------------|
| DWG TITLE | PE3C3408LF |
| 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 | 10/16/18 | SCALE | N/A | SIZE | A | CN2245 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-------|-----|------|---|--------|