



## SSMB Plug to SMA Male Low Loss Cable 12 Inch Length Using LMR-100 Coax with HeatShrink

### TECHNICAL DATA SHEET

PE3W00620/HS-12

#### Configuration

- Connector 1: SSMB Plug
- Connector 2: SMA Male
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W00620/HS-12 SSMB plug to SMA male 12 inch cable using LMR-100 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 SMA cable assembly has a plug to male gender configuration with 50 ohm flexible LMR-100A coax. The PE3W00620/HS-12 SSMB plug to SMA male cable assembly operates to 3 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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: [SSMB Plug to SMA Male Low Loss Cable 12 Inch Length Using LMR-100 Coax with Heat-Shrink PE3W00620/HS-12](#)



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#### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units                            |
|-------------------------------|---------|---------------|---------|----------------------------------|
| Frequency Range               | DC      |               | 3       | GHz                              |
| VSWR                          |         |               | 1.4:1   |                                  |
| Velocity of Propagation       |         | 66            |         | %                                |
| RF Shielding                  | 90      |               |         | dB                               |
| Group Delay                   |         | 1.54 [5.05]   |         | ns/ft [ns/m]                     |
| Capacitance                   |         | 30.8 [101.05] |         | pF/ft [pF/m]                     |
| Inductance                    |         | 0.077 [0.25]  |         | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |         | 81 [265.75]   |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |         | 9.5 [31.17]   |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |         |               | 2,000   | Vrms                             |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4  | F5   | Units |
|-----------------------|------|------|------|-----|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5 | 3    | GHz   |
| Insertion Loss (Max.) | 0.42 | 0.47 | 0.54 | 0.6 | 0.74 | 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 0.3dB of connector loss.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.03 lbs [13.61 g]

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#### Cable

|                                      |                        |
|--------------------------------------|------------------------|
| Cable Type                           | LMR-100A               |
| Impedance                            | 50 Ohms                |
| Inner Conductor Type                 | Solid                  |
| Inner Conductor Material and Plating | Copper Clad Steel      |
| Dielectric Type                      | PE                     |
| Number of Shields                    | 2                      |
| Shield Layer 1                       | Aluminum Tape          |
| Shield Layer 2                       | Tinned Copper Braid    |
| Jacket Material                      | PVC, Black             |
| Jacket Diameter                      | 0.11 in [2.79 mm]      |
| One Time Minimum Bend Radius         | 0.25 in [6.35 mm]      |
| Repeated Minimum Bend Radius         | 1 in [25.4 mm]         |
| Bending Moment                       | 0.1 lbs-ft [0.14 N-m]  |
| Flat Plate Crush                     | 10 lbs/in [0.18 Kg/mm] |
| Tensile Strength                     | 15 lbs [6.8 Kg]        |

#### Connectors

| Description                           | Connector 1            | Connector 2        |
|---------------------------------------|------------------------|--------------------|
| Type                                  | SSMB Plug Push-On      | SMA Male Threaded  |
| 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         | 30 µin minimum     |
| Dielectric Type                       | PTFE                   | PTFE               |
| Outer Conductor Material and Plating  | Beryllium Copper, Gold |                    |
| Outer Conductor Plating Specification | 30 µin minimum         |                    |
| Body Material and Plating             | Brass, Gold            | Brass, Nickel      |
| Body Plating Specification            | 30 µin minimum         | 100 µin minimum    |
| Coupling Nut Material and Plating     |                        | Brass, Nickel      |
| Coupling Nut Plating Specification    |                        | 100 µin minimum    |
| Hex Size                              |                        | 5/16 inch          |
| Torque                                |                        | 3 in-lbs [0.34 Nm] |

#### Environmental Specifications

##### Temperature

Operating Range -40 to +85 deg C

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

#### Plotted and Other Data

Notes:

#### How to Order

Part Number Configuration:

PE3W00620/HS - xx uu

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

Example: PE3W00620/HS-12 = 12 inches long cable  
PE3W00620/HS-100cm = 100 cm long cable

SSMB Plug to SMA Male Low Loss Cable 12 Inch Length Using LMR-100 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.

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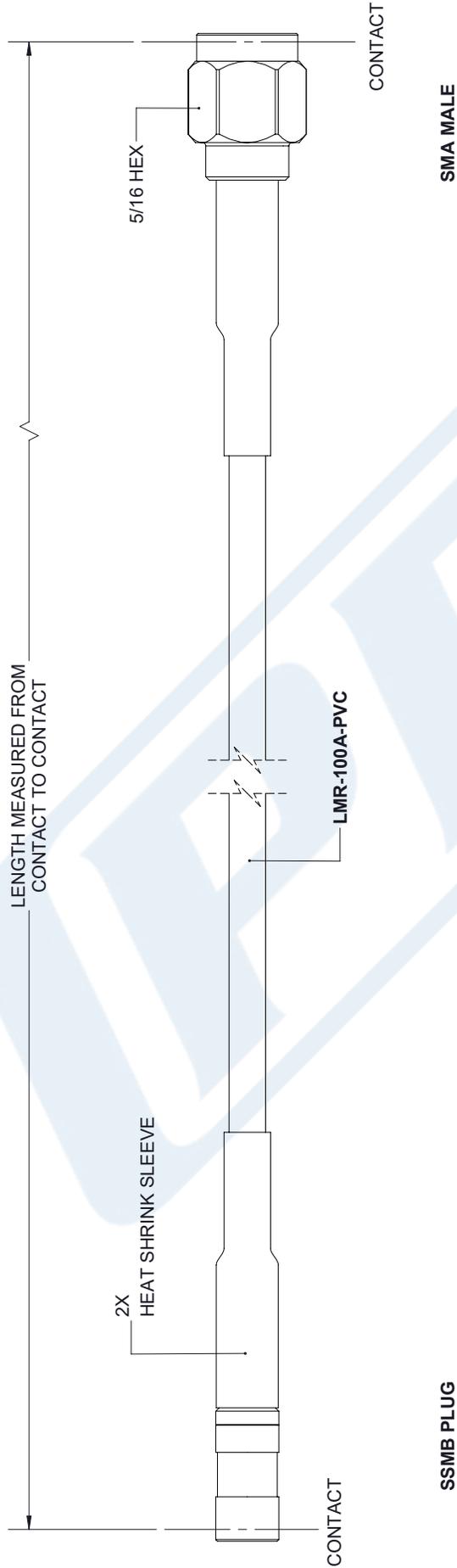
URL: <https://www.pasternack.com/ssmb-plug-sma-male-lmr100-cable-assembly-pe3w00620-hs-12-p.aspx>

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.

# PE3W00620/HS-12 CAD Drawing

SSMB Plug to SMA Male Low Loss Cable 12 Inch Length Using LMR-100 Coax with HeatShrink

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/23/19 | S. ELLIS |



|                                                                                                                                                                                                                                                                                                                                                         |                           |                                                                                                                                                                        |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>UNLESS OTHERWISE SPECIFIED<br/>LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:<br/>                 X±.2 [5.08] FRACTIONS<br/>                 .XX±.01 [.25] ±.132<br/>                 .XXX±.005 [.13] ANGLES ± 1°</p> <p>ALL DIMENSIONS SHOWN<br/>ARE FOR REFERENCE ONLY.</p> <p>THIRD-ANGLE PROJECTION</p> |                           | <p>THE INFORMATION AND<br/>DESIGN IN THIS DOCUMENT<br/>IS THE PROPERTY OF<br/>PASTERNAK CORPORATION.<br/>ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |  |
| <p><b>PE PASTERNAK</b><br/>an INFINITO brand</p> <p>Pasternack Enterprises, Inc.<br/>P.O. Box 16759, Irvine, CA 92623.<br/>Phone: 1.949.261.1920   1.866.727.8376<br/>Fax: 1.949.261.7451<br/>www.pasternack.com   e-mail: sales@pasternack.com</p>                                                                                                     |                           | <p>REV A</p> <p>PART NUMBER PE3W00620/HS</p>                                                                                                                           |  |
| <p>SIZE A</p> <p>CAGE 53919</p> <p>DRAWN BY K.DANG</p>                                                                                                                                                                                                                                                                                                  | <p>www.pasternack.com</p> |                                                                                                                                                                        |  |

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