



SSMB Plug to SMA Male Low Loss Cable 50 cm  
Length Using LMR-100 Coax with HeatShrink

**TECHNICAL DATA SHEET**

**PE3W00620/HS-50CM**

**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-50CM SSMB plug to SMA male 50 cm 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-50CM 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 50 cm Length Using LMR-100 Coax with Heat-Shrink PE3W00620/HS-50CM](#)



## SSMB Plug to SMA Male Low Loss Cable 50 cm Length Using LMR-100 Coax with HeatShrink

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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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω/1000ft [Ω/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.)	0.49	0.57	0.7	0.79	1.02	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 0.04 lbs [18.14 g]

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PE3W00620/HS-50CM

#### 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 50 cm 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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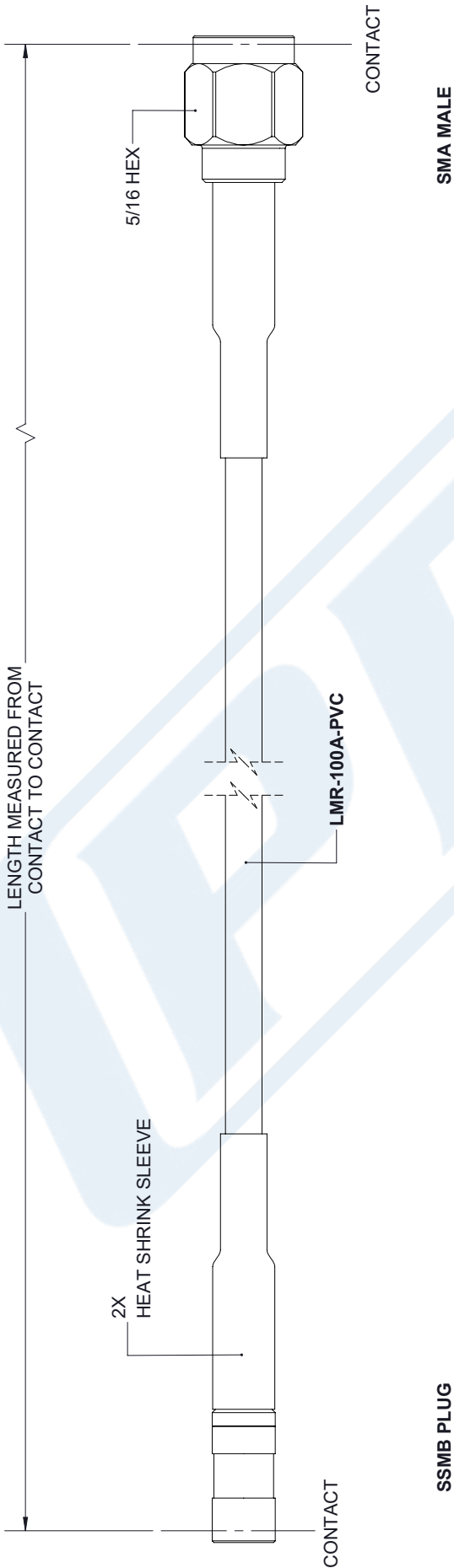
URL: <https://www.pasternack.com/ssmb-plug-sma-male-lmr100-cable-assembly-pe3w00620-hs-50cm-p.aspx>

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PE3W00620/HS-50CM CAD Drawing

SSMB Plug to SMA Male Low Loss Cable 50 cm Length Using LMR-100 Coax with HeatShrink

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/23/19	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [.25]	±.005
.XXX±.005 [.13]	±.001
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

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SIZE	PART NUMBER
A	53919
CAGE	DRAWN BY
53919	K.DANG
REV	REV
A	PE3W00620/HS

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SCALE	N/A

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