



## SMA Male to SMB Plug Cable Using PE-B100 Coax

### RF Cable Assemblies Technical Data Sheet

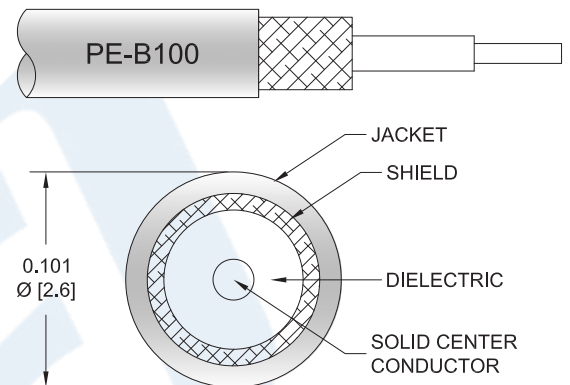
PE34455

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMB Plug
- Cable Type: PE-B100

#### Features

- Max Frequency 4 GHz
- 62% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE34455 SMA male to SMB plug cable using PE-B100 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 SMA to SMB cable assembly has a male to plug gender configuration with 50 ohm flexible PE-B100 coax. The PE34455 SMA male to SMB plug cable assembly operates to 4 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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: [SMA Male to SMB Plug Cable Using PE-B100 Coax PE34455](#)



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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		62		%
Capacitance		38 [124.67]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
VSWR (Max.)	1.4:1	1.4:1	1.4:1	1.4:1		
Return Loss (Max.)	15.56	15.563	15.563	15.563		dB

**Mechanical Specifications**

**Cable Assembly**

Weight 0.013 lbs [5.9 g]

**Cable**

Cable Type PE-B100  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel  
 Dielectric Type PE  
 Number of Shields 2  
 Shield Layer 1 PVC  
 Shield Layer 2 Tinned Copper Braid  
 Jacket Material PVC, Black  
 Jacket Diameter 0.101 in [2.57 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMB Plug
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 $\mu$ in. Min	30 $\mu$ in. minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in. Minimum	100 $\mu$ in. minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 $\mu$ in. Minimum	
Hex Size	5/16 in	
Torque	5 in-lbs [0.57 Nm]	

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

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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#### How to Order

Part Number Configuration:

PE34455

- xx

uu

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

Example: PE34455-12 = 12 inches long cable  
PE34455-100cm = 100 cm long cable

SMA Male to SMB Plug Cable Using PE-B100 Coax 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: [SMA Male to SMB Plug Cable Using PE-B100 Coax PE34455](https://www.pasternack.com/sma-male-smb-plug-pe-b100-cable-assembly-pe34455-p.aspx)

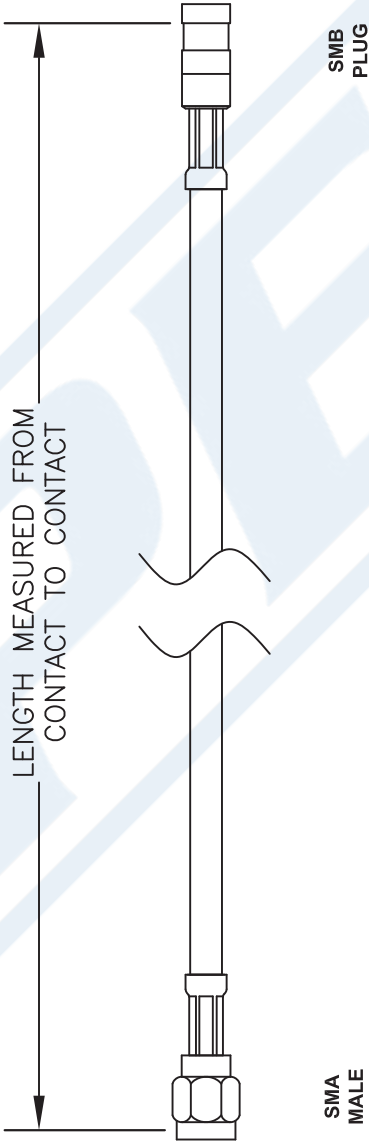
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

# PE34455 CAD Drawing

## SMA Male to SMB Plug Cable Using PE-B100 Coax

Standard Lengths	
-12	12"
-24	24"
-36	36"
-48	48"
-60	60"
-XXX	Custom Length in Inches



- NOTES:**
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
  3. DIMENSIONS ARE IN INCHES (mm).
  4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE  
**PE34455-XX**

**PASTERNAK®**  
 Pasternack Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623  
 Phone: (949) 261-1920 | Fax: (949) 261-7451  
 Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

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