



SMA Male to SMB Plug Cable Using PE-B100 Coax

RF Cable Assemblies Technical Data Sheet

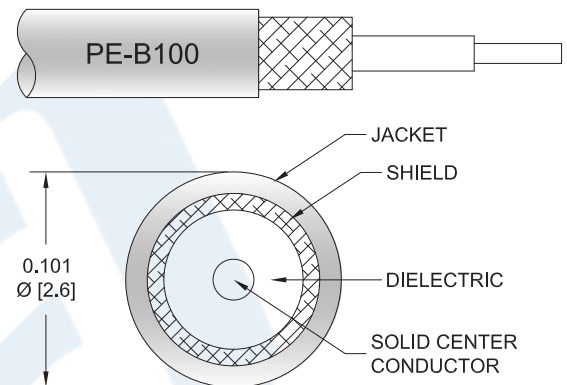
PE34455LF

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 PE34455LF 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 PE34455LF 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 PE34455LF](#)



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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 μ in. Min | 30 μ in. minimum |
| Dielectric Type | PTFE | Teflon |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 μ in. Minimum | 100 μ in. minimum |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Coupling Nut Plating Specification | 100 μ 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:

PE34455LF - xx uu

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

Example: PE34455LF-12 = 12 inches long cable
PE34455LF-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.

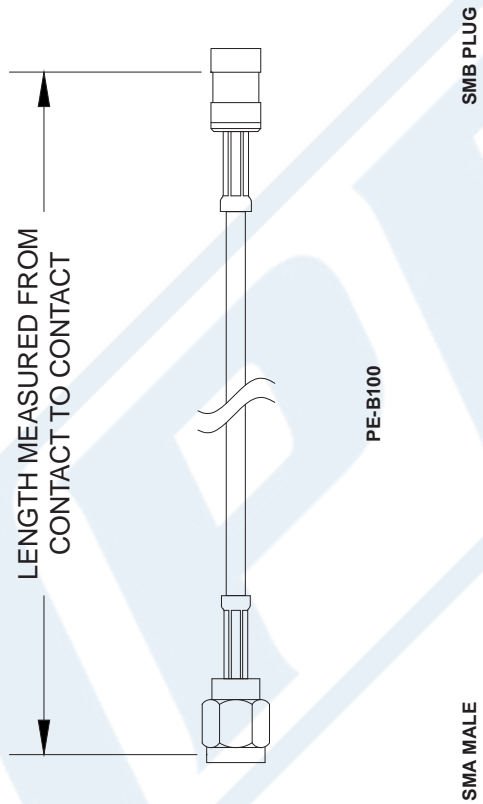
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URL: <https://www.pasternack.com/sma-male-smb-plug-pe-b100-cable-assembly-pe34455lf-p.aspx>

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.

PE34455LF CAD Drawing

SMA Male to SMB Plug Cable Using PE-B100 Coax



| How To Order | | Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|---|--|-------------|------------------|-------------|-----------------------|
| Part Number Configuration PE3 [ZZZ] [YY] - [XX] [UU] 00 - 99999 LF = RoHS Compliant < Blank > = Standard Note: LF applies only to RF cables | | -12 | 12" | -25CM | 25Cm |
| Examples PE3000LF-100 PE3000-100 PE3000LF-100CM PE3000-100CM | | -24 | 24" | -50CM | 50Cm |
| CM = Centimeters < Blank > = Inches _____ Length | | -36 | 36" | -75CM | 75Cm |
| | | -48 | 48" | -100CM | 100Cm |
| | | -60 | 60" | -125CM | 125Cm |
| | | -XX | Custom Length | -XXCM | Custom Length |

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 ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE
PE34455LF

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CAD FILE 41613 SCALE N/A SIZE A

FSCM NO. 53919