

## SMB Plug to SMB Jack Bulkhead Cable 72 Inch Length Using PE-B100 Coax



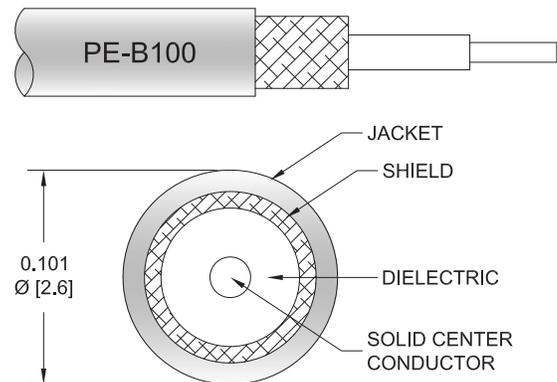
### PE34491-72

#### Configuration

- Connector 1: SMB Plug
- Connector 2: SMB Jack Bulkhead
- Cable Type: PE-B100
- Coax Flex Type: Flexible

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE34491-72 SMB plug to SMB jack bulkhead 72 inch 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 SMB to SMB cable assembly has a plug to jack gender configuration with 50 ohm flexible PE-B100 coax. The PE34491-72 SMB plug to SMB jack cable assembly operates to 4 GHz. Our RF cable assembly with SMB bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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.

#### Electrical Specifications

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

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter

0.256 in [6.5 mm]

Weight

0.012 lbs [5.44 g]

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**PE34491-72**

**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]

**Connectors**

Description	Connector 1	Connector 2
Type	SMB Plug	SMB Jack Bulkhead
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	30μ in. minimum	30μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100μ in. minimum	100μ in. minimum

**Environmental Specifications**

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

**Plotted and Other Data**

Notes:  
Values at 25°C, sea level.

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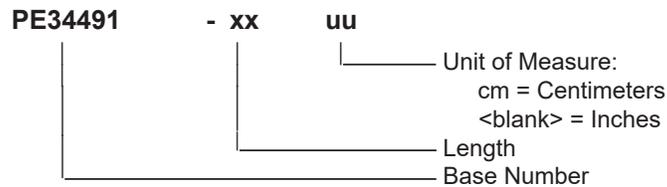


**PE34491-72**

**Typical Performance Data**

**How to Order**

Part Number Configuration:



Example: PE34491-12 = 12 inches long cable  
PE34491-100cm = 100 cm long cable

SMB Plug to SMB Jack Bulkhead Cable 72 Inch Length 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.

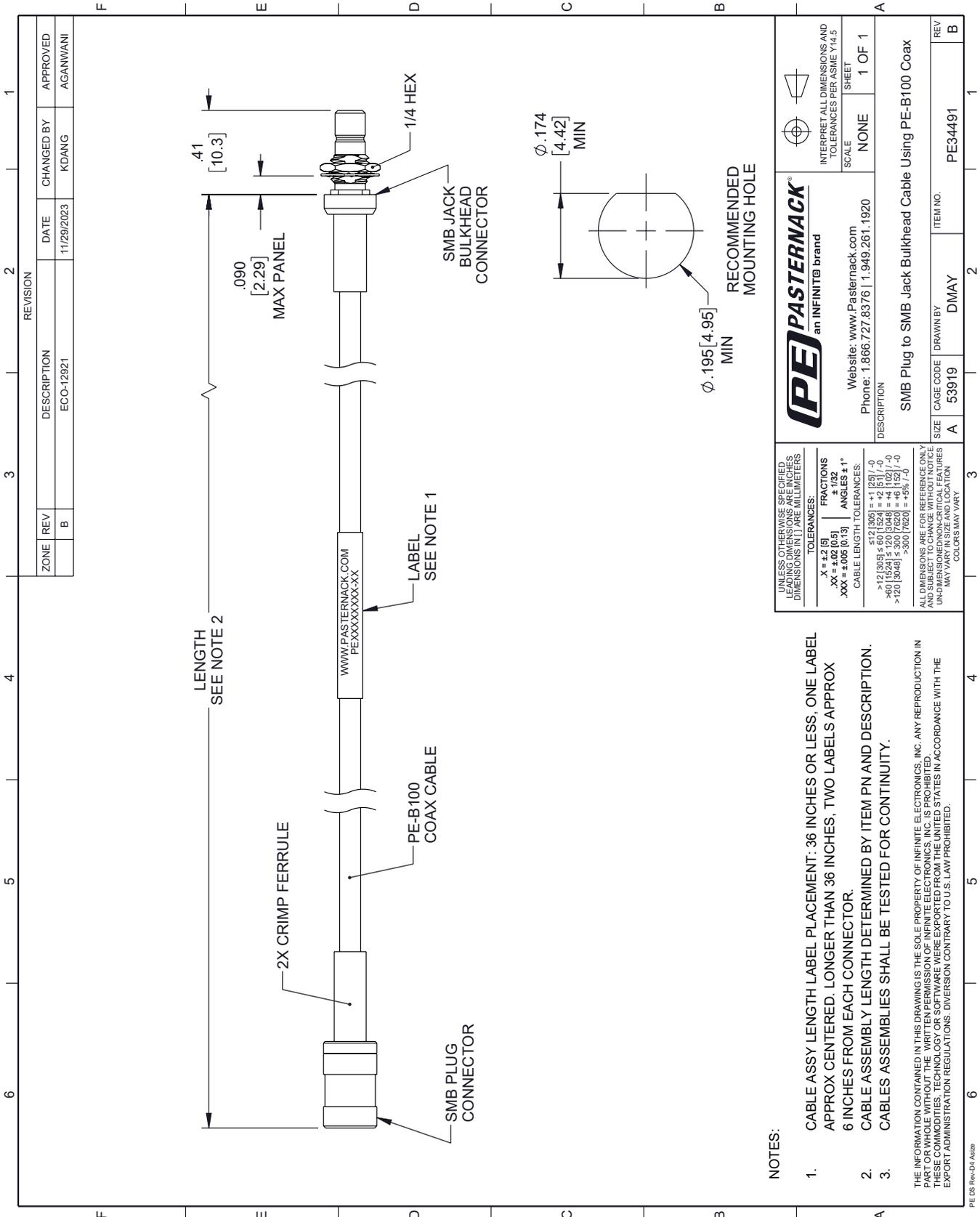
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug to SMB Jack Bulkhead Cable 72 Inch Length Using PE-B100 Coax PE34491-72](#)

URL: <https://www.pasternack.com/smb-plug-smb-jack-pe-b100-cable-assembly-pe34491-72-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE34491-72 CAD Drawing

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**NOTES:**

- CABLE ASSY LENGTH LABEL PLACEMENT: .36 INCHES OR LESS, ONE LABEL APPROX CENTERED, LONGER THAN .36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.

**TOLERANCES:**  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

**FRACTIONS**  
 ± 1/32  
**ANGLES** ± 1°

**CABLE LENGTH TOLERANCES:**  
 ≤ 12 [305] ± .60 [1524]  
 > 12 [305] ≤ 60 [1524] ± .42 [1067]  
 > 60 [1524] ≤ 120 [3048] ± .42 [1067]  
 > 120 [3048] ± .30 [7620] ± .5% [1.27]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.



Website: www.Pasternack.com  
 Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

DESCRIPTION		SMB Plug to SMB Jack Bulkhead Cable Using PE-B100 Coax	
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	DMAY	PE34491
REV	REV		B