

SMB Jack to BNC Female Cable Using RG316 Coax



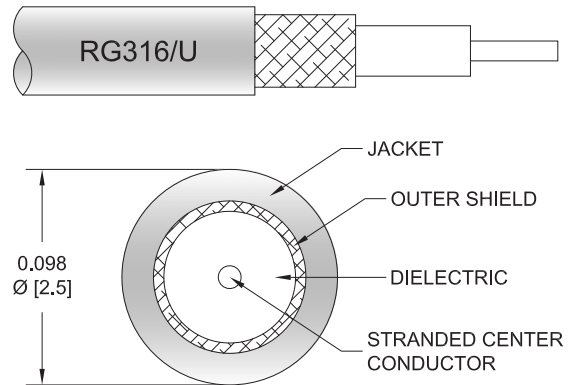
PE33953

Configuration

- Connector 1: SMB Jack
- Connector 2: BNC Female
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE33953 SMB jack to BNC female cable using RG316 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 BNC cable assembly has a jack to female gender configuration with 50 ohm flexible RG316 coax. The PE33953 SMB jack to BNC female cable assembly operates to 1 GHz.

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		1,000	MHz
VSWR		1.4:1		
Velocity of Propagation		69		%
Operating Voltage (AC)			335	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	50	100	250	500	1000	MHz	
PE33953	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.11	0.16	0.238	0.38	dB/ft	
			0.25	0.37	0.53	0.79	1.25	dB/m	
PE33953-12	12 inch	Insertion Loss (Typ.)	0.28	0.31	0.36	0.44	0.58	dB	0.042
PE33953-24	24 inch	Insertion Loss (Typ.)	0.35	0.42	0.52	0.68	0.96	dB	0.053
PE33953-36	36 inch	Insertion Loss (Typ.)	0.43	0.53	0.68	0.92	1.34	dB	0.063
PE33953-48	48 inch	Insertion Loss (Typ.)	0.5	0.64	0.84	1.16	1.72	dB	0.073
PE33953-72	72 inch	Insertion Loss (Typ.)	0.65	0.86	1.16	1.63	2.48	dB	0.093

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.042 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight	0.042 lbs [19.05 g]
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Cable

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.102 in [2.59 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMB Jack	BNC Female
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum

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Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

PE33953 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE33953-12 = 12 inches long cable
PE33953-100cm = 100 cm long cable

SMB Jack to BNC Female Cable Using RG316 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 Jack to BNC Female Cable Using RG316 Coax PE33953](#)

URL: <https://www.pasternack.com/smb-jack-to-bnc-female-cable-using-rg316-pe33953-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.

PE33953 CAD Drawing
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