

BNC Male Right Angle to SMA Male Cable Using RG316 Coax



PE3W05292

Configuration

- Connector 1: BNC Male Right Angle
- Connector 2: SMA Male
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

- Max Frequency 2 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05292 BNC male right angle to SMA male 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 BNC to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG316 coax. The PE3W05292 BNC male to SMA male cable assembly operates to 2 GHz. The right angle BNC interface on the RG316 cable allows for easier connections in tight spaces.

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		2	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
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	
PE3W05292	Custom Lengths Available	Insertion Loss (Typ.)	0.075	0.11	0.16	0.238	0.48	dB/ft	
			0.25	0.37	0.53	0.79	1.58	dB/m	
PE3W05292-12	12 Inch	Insertion Loss (Typ.)	0.53	0.56	0.61	0.69	0.93	dB	0.072
PE3W05292-24	24 Inch	Insertion Loss (Typ.)	0.6	0.67	0.77	0.93	1.41	dB	0.082
PE3W05292-36	36 Inch	Insertion Loss (Typ.)	0.68	0.78	0.93	1.17	1.89	dB	0.092
PE3W05292-48	48 Inch	Insertion Loss (Typ.)	0.75	0.89	1.09	1.41	2.37	dB	0.102
PE3W05292-72	72 Inch	Insertion Loss (Typ.)	0.9	1.11	1.41	1.88	3.33	dB	0.122

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: 0.25 dB
 Loss due to Connector 2: 0.2 dB
 Base Weight: 0.072 pounds
 Additional Weight per Inch: 0.32917 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.072 lbs [32.66 g]

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 0.098 in [2.49 mm]

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Connectors

Description	Connector 1	Connector 2
Type	BNC Male Right Angle	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	15 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	200 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	200 µin minimum

Environmental Specifications

Operating Range Temperature -40 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3W05292

Typical Performance Data

How to Order

Part Number Configuration:

PE3W05292

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W05292-12 = 12 inches long cable
PE3W05292-100cm = 100 cm long cable

BNC Male Right Angle to SMA Male 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: [BNC Male Right Angle to SMA Male Cable Using RG316 Coax PE3W05292](#)

URL: <https://www.pasternack.com/bnc-male-right-angle-to-sma-male-cable-using-rg316-pe3w05292-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.

PE3W05292 CAD Drawing

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