

BNC Female Bulkhead to SMA Female Cable Using RG178 Coax



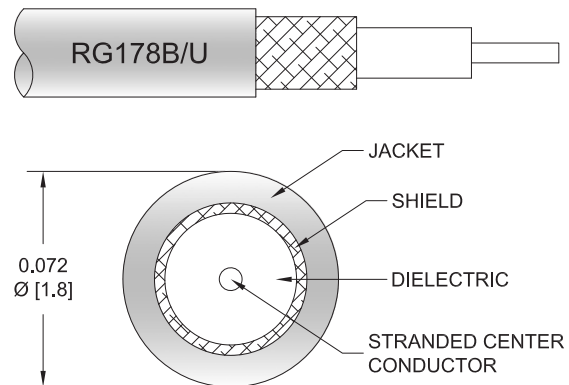
PE3W14589

Configuration

- Connector 1: BNC Female Bulkhead
- Connector 2: SMA Female
- Cable Type: RG178
- Coax Flex Type: Flexible

Features

- Max Frequency 2 GHz
- 70% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W14589 BNC female bulkhead to SMA female cable using RG178 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 female to female gender configuration with 50 ohm flexible RG178 coax. The PE3W14589 BNC female to SMA female cable assembly operates to 2 GHz. Our RF cable assembly with BNC 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.

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		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

BNC Female Bulkhead to SMA Female
Cable Using RG178 Coax



PE3W14589

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3W14589	Custom Lengths Available	Insertion Loss (Typ.)	0.14	0.21	0.306	0.447	0.615	dB/ft	
			0.46	0.69	1.01	1.47	2.02	dB/m	
PE3W14589-6	6 inch	Insertion Loss (Typ.)	0.27	0.31	0.36	0.43	0.51	dB	0.054
PE3W14589-9	9 inch	Insertion Loss (Typ.)	0.31	0.36	0.43	0.54	0.67	dB	0.055
PE3W14589-12	12 inch	Insertion Loss (Typ.)	0.34	0.41	0.51	0.65	0.82	dB	0.056
PE3W14589-24	24 inch	Insertion Loss (Typ.)	0.48	0.62	0.82	1.1	1.43	dB	0.062
PE3W14589-36	36 inch	Insertion Loss (Typ.)	0.62	0.83	1.12	1.55	2.05	dB	0.067

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: 0.056 pounds
 Additional Weight per Inch: 0.00042 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.056 lbs [25.4 g]

Cable

Cable Type: RG178
 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: 0.072 in [1.83 mm]
 Repeated Minimum Bend Radius: 0.4 in [10.16 mm]

BNC Female Bulkhead to SMA Female Cable Using RG178 Coax



PE3W14589

Connectors

Description	Connector 1	Connector 2
Type	BNC Female Bulkhead	SMA Female
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Phosphor Bronze, Gold	Beryllium Copper, Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type	POM	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification		QQ-N-290

Environmental Specifications

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

Plotted and Other Data

Notes:

BNC Female Bulkhead to SMA Female Cable Using RG178 Coax



PE3W14589

Typical Performance Data

How to Order

Part Number Configuration:

PE3W14589

- **xx**

uu

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

Example: PE3W14589-12 = 12 inches long cable
PE3W14589-100cm = 100 cm long cable

BNC Female Bulkhead to SMA Female Cable Using RG178 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 Female Bulkhead to SMA Female Cable Using RG178 Coax PE3W14589](#)

URL: <https://www.pasternack.com/bnc-female-bulkhead-to-sma-female-cable-using-rg178-pe3w14589-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.

PE3W14589 CAD Drawing

BNC Female Bulkhead to SMA Female Cable Using RG178 Coax

