

SSMC Plug to BNC Male Cable Using RG178 Coax

PE3W06723

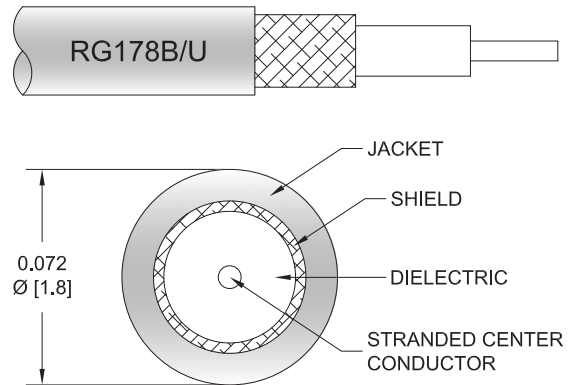


Configuration

- Connector 1: SSMC Plug
- Connector 2: BNC Male
- Cable Type: RG178
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06723 SSMC plug to BNC male 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 SSMC to BNC cable assembly has a plug to male gender configuration with 50 ohm flexible RG178 coax. The PE3W06723 SSMC plug to BNC male 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	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
PE3W06723	Custom Lengths Available	Insertion Loss (Typ.)	0.14	0.21	0.306	0.447	dB/ft	
			0.46	0.69	1.01	1.47	dB/m	
PE3W06723-6	6 inch	Insertion Loss (Typ.)	0.27	0.31	0.36	0.43	dB	0.047
PE3W06723-9	9 inch	Insertion Loss (Typ.)	0.31	0.36	0.43	0.54	dB	0.048
PE3W06723-12	12 inch	Insertion Loss (Typ.)	0.34	0.41	0.51	0.65	dB	0.049
PE3W06723-24	24 inch	Insertion Loss (Typ.)	0.48	0.62	0.82	1.1	dB	0.055
PE3W06723-36	36 inch	Insertion Loss (Typ.)	0.62	0.83	1.12	1.55	dB	0.06

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:	0.049 pounds
Additional Weight per Inch:	0.00042 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.049 lbs [22.23 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]

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Connectors

Description	Connector 1	Connector 2
Type	SSMC Plug	BNC Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	30 µin minimum
Dielectric Type	Teflon	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Nickel
Body Plating Specification	MIL-G-45204	100 µin minimum
Coupling Nut Material and Plating	Beryllium Copper, Gold	Brass, Nickel
Coupling Nut Plating Specification	MIL-G-45205	100 µin minimum
Torque	1.75 in-lbs 0.2 Nm	

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3W06723

Typical Performance Data

How to Order

Part Number Configuration:

PE3W06723

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

Length

Base Number

Example: PE3W06723-12 = 12 inches long cable
PE3W06723-100cm = 100 cm long cable

SSMC Plug to BNC Male 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: [SSMC Plug to BNC Male Cable Using RG178 Coax PE3W06723](https://www.pasternack.com/ssmc-plug-to-bnc-male-cable-using-rg178-pe3w06723-p.aspx)

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PE3W06723 CAD Drawing
SSMC Plug to BNC Male Cable Using RG178 Coax

