

75 Ohm SMB Plug to 75 Ohm F Male Cable Using 75 Ohm RG179 Coax



PE3W09580

Configuration

- Connector 1: SMB Plug
- Connector 2: F Male
- Cable Type: RG179
- Coax Flex Type: Flexible

Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W09580 75 ohm SMB plug to 75 ohm type F male cable using 75 ohm RG179 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 type F cable assembly has a plug to male gender configuration with 75 ohm flexible RG179 coax. The PE3W09580 SMB plug to type F 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		19.4 [63.65]		pF/ft [pF/m]
Operating Voltage (AC)			335	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	
PE3W09580	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.14	0.203	0.3	dB/ft	
			0.3	0.45	0.67	0.99	dB/m	
PE3W09580-12	12 inch	Insertion Loss (Typ.)	0.44	0.49	0.56	0.65	dB	0.03
PE3W09580-24	24 inch	Insertion Loss (Typ.)	0.53	0.63	0.76	0.95	dB	0.039
PE3W09580-36	36 inch	Insertion Loss (Typ.)	0.62	0.77	0.96	1.25	dB	0.048
PE3W09580-48	48 inch	Insertion Loss (Typ.)	0.71	0.9	1.17	1.55	dB	0.057
PE3W09580-72	72 inch	Insertion Loss (Typ.)	0.89	1.18	1.57	2.15	dB	0.075

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:	0.25 dB
Base Weight:	0.03 pounds
Additional Weight per Inch:	0.00075 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.03 lbs [13.61 g]

Cable

Cable Type	RG179
Impedance	75 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	0.1 in [2.54 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMB Plug	F Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	2.5 µin minimum	
Coupling Nut Material and Plating		Brass, Nickel
Hex Size		7/16 inch
Torque		12 in-lbs 1.36 Nm

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W09580

Typical Performance Data

How to Order

Part Number Configuration: **PE3W09580** **- xx** **uu**

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

Length

Base Number

Example: PE3W09580-12 = 12 inches long cable
 PE3W09580-100cm = 100 cm long cable

75 Ohm SMB Plug to 75 Ohm F Male Cable Using 75 Ohm RG179 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: [75 Ohm SMB Plug to 75 Ohm F Male Cable Using 75 Ohm RG179 Coax PE3W09580](https://www.pasternack.com/75-ohm-smb-plug-to-75-ohm-f-male-cable-using-rg179-pe3w09580-p.aspx)

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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.

PE3W09580 CAD Drawing
75 Ohm SMB Plug to 75 Ohm F Male Cable Using 75 Ohm RG179 Coax

