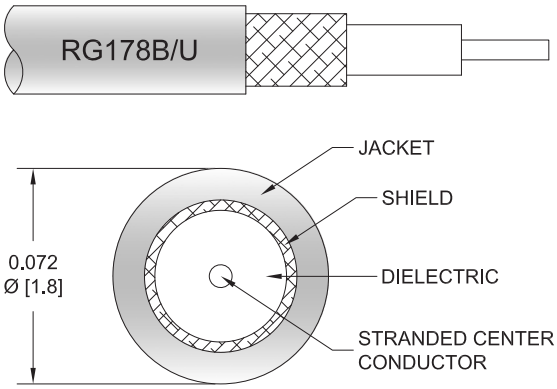
SMP Female to SMA Male Cable Using RG178 Coax

PE39061

Configuration

- Connector 1: SMP Female
- Connector 2: SMA 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 PE39061 SMP female to SMA 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 SMP to SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG178 coax. The PE39061 SMP female to SMA 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		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

SMP Female to SMA Male Cable Using RG178 Coax

PE39061

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
PE39061	Custom Lengths Available	Insertion Loss (Typ.)	0.14	0.21	0.24	0.44	dB/ft	
			0.46	0.69	0.78	1.46	dB/m	
PE39061-6	6 inch	Insertion Loss (Typ.)	0.27	0.31	0.32	0.43	dB	0.025
PE39061-9	9 inch	Insertion Loss (Typ.)	0.31	0.36	0.38	0.54	dB	0.026
PE39061-12	12 inch	Insertion Loss (Typ.)	0.34	0.41	0.44	0.65	dB	0.027
PE39061-24	24 inch	Insertion Loss (Typ.)	0.48	0.62	0.68	1.09	dB	0.033
PE39061-36	36 inch	Insertion Loss (Typ.)	0.62	0.83	0.91	1.54	dB	0.038

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:	0.027	pounds
Additional Weight per Inch:	0.00042	pounds

Mechanical Specifications

Cable Assembly

Weight	0.027 lbs [12.25 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]

SMP Female to SMA Male Cable Using RG178 Coax

PE39061

Connectors

Description	Connector 1	Connector 2
Type	SMP Female	SMA Male
Specification	MIL-STD-348	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Nickel
Body Plating Specification	MIL-G-45204	100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size		5/16 inch
Torque		5 in-lbs 0.57 Nm

Environmental Specifications

Operating Range Temperature	-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

+1 (866) 558-2786 | sales@pasternack.com | pasternack.com

SMP Female to SMA Male Cable Using RG178 Coax

PE39061

Typical Performance Data

How to Order

Part Number Configuration: **PE39061 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE39061 — Base Number

Example: PE39061-12 = 12 inches long cable
PE39061-100cm = 100 cm long cable

SMP Female to SMA 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: SMP Female to SMA Male Cable Using RG178 Coax PE39061

URL: https://www.pasternack.com/smp-female-to-sma-male-cable-using-rg178-pe39061-p.aspx

PE39061 CAD Drawing

SMP Female to SMA Male Cable Using RG178 Coax