

SMA Male to SMA Male Cable Using RG402 Coax



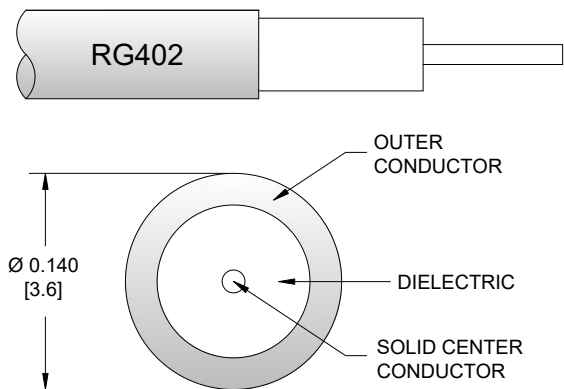
PE3W00089

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: RG402
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W00089 SMA male to SMA male cable using RG402 coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMA to SMA cable assembly has a male to male gender configuration with 50 ohm semi-rigid RG402 coax. The PE3W00089 SMA male to SMA male cable assembly operates to 18 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		18	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W00089	Custom Lengths Available	Insertion Loss (Typ.)	0.111	0.154	0.26	0.403	0.636	dB/ft	
			0.37	0.51	0.86	1.33	2.09	dB/m	
PE3W00089-6	6 inch	Insertion Loss (Typ.)	0.18	0.25	0.39	0.57	0.83	dB	0.03
PE3W00089-12	12 inch	Insertion Loss (Typ.)	0.24	0.33	0.52	0.77	1.15	dB	0.046
PE3W00089-24	24 inch	Insertion Loss (Typ.)	0.35	0.48	0.78	1.17	1.79	dB	0.079
PE3W00089-36	36 inch	Insertion Loss (Typ.)	0.46	0.64	1.04	1.57	2.42	dB	0.111
PE3W00089-60	60 inch	Insertion Loss (Typ.)	0.68	0.94	1.56	2.38	3.69	dB	0.175

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: 0.06*SQRT(FGHz) dB

Loss due to Connector 2: 0.06*SQRT(FGHz) dB

Base Weight: 0.046 pounds

Additional Weight per Inch: 0.00267 pounds

Mechanical Specifications

Cable Assembly

Weight 0.046 lbs [20.87 g]

Cable

Cable Type RG402
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Outer Conductor 1 Material and Plating Copper
 Jacket Material Tan
 Repeated Minimum Bend Radius 0.25 in [6.35 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs 0.34 Nm	3 in-lbs 0.34 Nm

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Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

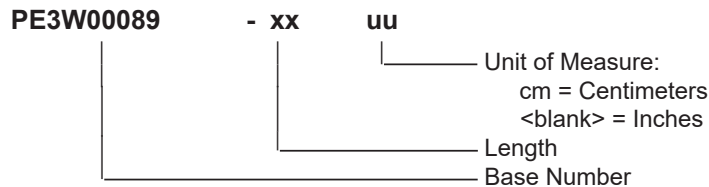
Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W00089-12 = 12 inches long cable
PE3W00089-100cm = 100 cm long cable

SMA Male to SMA Male Cable Using RG402 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: [SMA Male to SMA Male Cable Using RG402 Coax PE3W00089](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-rg402-pe3w00089-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.

PE3W00089 CAD Drawing

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