



SMA Male to SMA Male Right Angle Cable Using PE-SR402FL Coax

TECHNICAL DATA SHEET

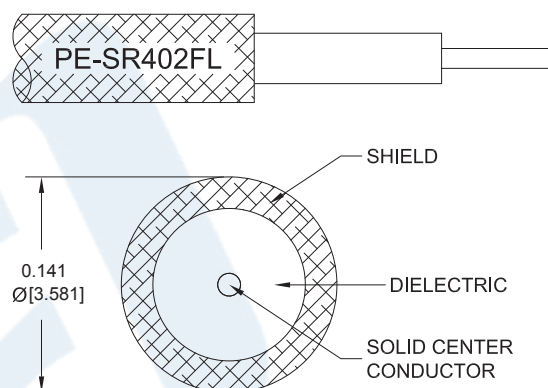
PE3W00167

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W00167 SMA male to SMA male right angle cable using PE-SR402FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FL coax. The PE3W00167 SMA male to SMA male cable assembly operates to 10 GHz. The right angle SMA interface on the PE-SR402FL cable allows for easier connections in tight spaces.

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.

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 Right Angle Cable Using PE-SR402FL Coax PE3W00167](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	#####	MHz	
PE3W00167	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.18	0.29	0.45	dB/ft	
			0.27	0.4	0.6	0.96	1.48	dB/m	
PE3W00167-6	6 inch	Insertion Loss (Typ.)	0.34	0.36	0.39	0.45	0.53	dB	0.026
PE3W00167-9	12 inch	Insertion Loss (Typ.)	0.36	0.39	0.44	0.52	0.64	dB	0.032
PE3W00167-12	18 inch	Insertion Loss (Typ.)	0.38	0.42	0.48	0.59	0.75	dB	0.038
PE3W00167-18	24 inch	Insertion Loss (Typ.)	0.42	0.48	0.57	0.74	0.98	dB	0.051
PE3W00167-24	36 inch	Insertion Loss (Typ.)	0.46	0.54	0.66	0.88	1.2	dB	0.064

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:	0.2 dB
Base Weight:	0.038 pounds
Additional Weight per Inch:	0.00209 pounds

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Weight 0.038 lbs [17.24 g]

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Cable

Cable Type	PE-SR402FL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
One Time Minimum Bend Radius	0.315 in [8 mm]
Repeated Minimum Bend Radius	1.57 in [39.88 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Threaded	SMA Male Right Angle Threaded
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50µ in. minimum	
Dielectric Type	Teflon	PTFE
Body Material and Plating	Stainless Steel, Gold	Brass, Gold
Body Plating Specification	10µ in. minimum	
Coupling Nut Material and Plating	Brass, Nickel	Passivated Stainless Steel
Coupling Nut Plating Specification	100µ in. minimum	
Hex Size	5/16 in	5/16 in.
Torque	5 in-lbs [0.57 Nm]	8 in-lbs [0.9 Nm]

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W00167

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

Example: PE3W00167-12 = 12 inches long cable
PE3W00167-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Cable Using PE-SR402FL 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 Right Angle Cable Using PE-SR402FL Coax PE3W00167](https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-sr402fl-pe3w00167-p.aspx)

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The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

