



## SMA Male Right Angle to SMA Male Right Angle Cable Using PE-P195 Coax

### TECHNICAL DATA SHEET

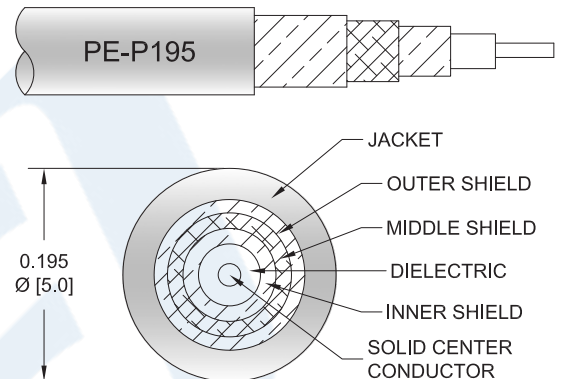
PE3C1909

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: PE-P195
- Coax Flex Type: Flexible

#### Features

- Max Frequency 12.4 GHz
- 70% Phase Velocity
- Triple Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C1909 SMA male right angle to SMA male right angle cable using PE-P195 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible PE-P195 coax. The PE3C1909 SMA male to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interfaces on the PE-P195 cable allow for easier connections in tight spaces. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 Right Angle to SMA Male Right Angle Cable Using PE-P195 Coax PE3C1909](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29 [95.14]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	500	1000	2500	5000	#####	
PE3C1909	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.12	0.19	0.31	0.51	dB/ft	
			0.29	0.4	0.63	1.02	1.68	dB/m	
PE3C1909-12	12 inch	Insertion Loss (Typ.)	0.49	0.52	0.59	0.71	0.91	dB	0.072
PE3C1909-24	24 inch	Insertion Loss (Typ.)	0.58	0.64	0.78	1.02	1.42	dB	0.111
PE3C1909-36	36 inch	Insertion Loss (Typ.)	0.67	0.76	0.97	1.33	1.93	dB	0.149
PE3C1909-60	60 inch	Insertion Loss (Typ.)	0.84	1	1.35	1.95	2.95	dB	0.225
PE3C1909-72	72 inch	Insertion Loss (Typ.)	0.93	1.12	1.54	2.26	3.46	dB	0.263

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.072 pounds
Additional Weight per Inch:	0.00317 pounds

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.072 lbs [32.66 g]

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#### Cable

Cable Type	PE-P195
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle Threaded	SMA Male Right Angle Threaded
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 $\mu$ in minimum	50 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs [0.34 Nm]	3 in-lbs [0.34 Nm]

#### Environmental Specifications

##### Temperature

Operating Range -55 to +165 deg C

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

#### Plotted and Other Data

Notes:

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**PE3C1909**

#### How to Order

Part Number Configuration:

**PE3C1909**

- **xx**

**uu**

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

Example: PE3C1909-12 = 12 inches long cable  
PE3C1909-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Cable Using PE-P195 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.

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URL: <https://www.pasternack.com/sma-male-sma-male-pe-p195-cable-assembly-pe3c1909-p.aspx>

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.

