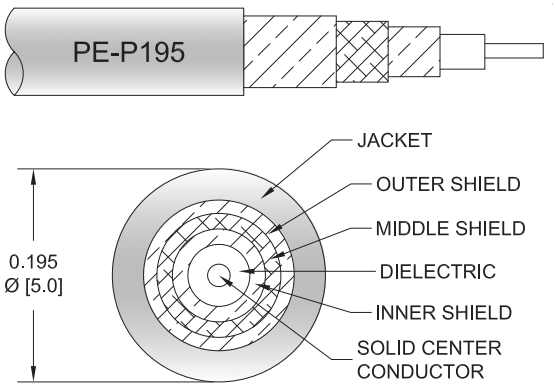
SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using PE-P195 Coax with HeatShrink

PE3C1909/HS

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/HS 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/HS 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.

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

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	12400	MHz	
PE3C1909/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.088	0.125	0.196	0.315	0.512	dB/ft	
			0.29	0.42	0.65	1.04	1.68	dB/m	
PE3C1909/HS-12	12 In	Insertion Loss (Typ.)	0.49	0.53	0.6	0.72	0.92	dB	0.072
PE3C1909/HS-24	24 In	Insertion Loss (Typ.)	0.58	0.65	0.8	1.03	1.43	dB	0.111
PE3C1909/HS-36	36 In	Insertion Loss (Typ.)	0.67	0.78	0.99	1.35	1.94	dB	0.149
PE3C1909/HS-60	60 In	Insertion Loss (Typ.)	0.84	1.03	1.38	1.98	2.96	dB	0.225
PE3C1909/HS-72	72 In	Insertion Loss (Typ.)	0.93	1.15	1.58	2.29	3.48	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

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.034 lbs [15.42 g]

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]

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Connectors

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

Environmental Specifications

Operating Range Temperature	-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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PE3C1909/HS

Typical Performance Data

How to Order

Part Number Configuration: **PE3C1909/HS - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C1909/HS — Base Number

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

SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using PE-P195 Coax with HeatShrink 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 Right Angle to SMA Male Right Angle Low Loss Cable Using PE-P195 Coax with HeatShrink PE3C1909/HS

URL: https://www.pasternack.com/sma-male-right-angle-to-sma-male-low-loss-cable-using-pe-p195-with-heatshrink-pe3c1909-hs-p.aspx

PE3C1909/HS CAD Drawing

SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using PE-P195 Coax with HeatShrink