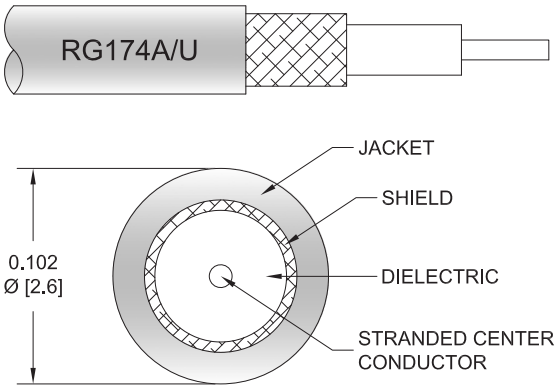
SMA Male to Push-On SMP Female Right Angle Cable Using RG174 Coax, LF Solder

PE3C5191LF

Configuration

- Connector 1: SMA Male
- Connector 2: Push-On SMP Female Right Angle
- Cable Type: RG174
- Coax Flex Type: Flexible



Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5191LF SMA male to SMP female push-on right angle cable using RG174 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 SMP cable assembly has a male to female gender configuration with 50 ohm flexible RG174 coax. The PE3C5191LF SMA male to SMP female cable assembly operates to 1 GHz. The right angle SMP interface on the RG174 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
PE3C5191LF	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.14	0.211	0.32	dB/ft	
			0.28	0.45	0.7	1.05	dB/m	
PE3C5191LF-12	12 inch	Insertion Loss (Typ.)	0.39	0.44	0.52	0.62	dB	0.029
PE3C5191LF-24	24 inch	Insertion Loss (Typ.)	0.47	0.58	0.73	0.94	dB	0.038
PE3C5191LF-36	36 inch	Insertion Loss (Typ.)	0.56	0.72	0.94	1.26	dB	0.047
PE3C5191LF-48	48 inch	Insertion Loss (Typ.)	0.64	0.85	1.15	1.58	dB	0.056
PE3C5191LF-72	72 inch	Insertion Loss (Typ.)	0.81	1.13	1.57	2.22	dB	0.074

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:	0.029	pounds
Additional Weight per Inch:	0.00075	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.029 lbs [13.15 g]

Cable

Cable Type	RG174
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMP Female Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Connection Method		Push-On
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	30 µin. minimum
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		3 µin. minimum
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 µin minimum	3 µin. minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	

Environmental Specifications

Operating Range Temperature	-40 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

How to Order

Part Number Configuration: **PE3C5191LF - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C5191LF — Base Number

Example: PE3C5191LF-12 = 12 inches long cable
PE3C5191LF-100cm = 100 cm long cable

SMA Male to Push-On SMP Female Right Angle Cable Using RG174 Coax, LF Solder 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 Push-On SMP Female Right Angle Cable Using RG174 Coax, LF Solder PE3C5191LF

URL: https://www.pasternack.com/sma-male-to-push-on-smp-female-cable-using-rg174-lf-solder-pe3c5191lf-p.aspx

PE3C5191LF CAD Drawing

SMA Male to Push-On SMP Female Right Angle Cable Using RG174 Coax, LF Solder