

SMA Female Bulkhead to Push-On SMP Female Cable Using RG196 Coax



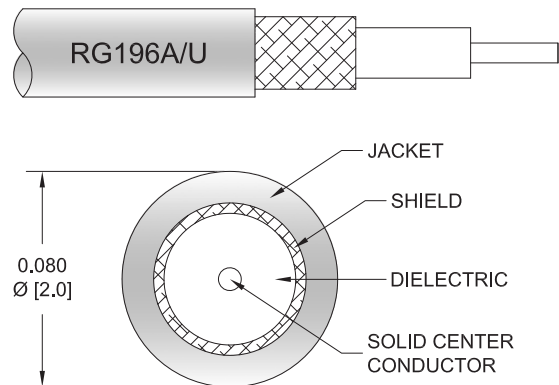
PE3W10219

Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: Push-On SMP Female
- Cable Type: RG196
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- PTFE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10219 SMA female bulkhead to SMP female push-on cable using RG196 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 female to female gender configuration with 50 ohm flexible RG196 coax. The PE3W10219 SMA female to SMP female cable assembly operates to 1 GHz. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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	
Capacitance		32 [104.99]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		50	100	250	500	
PE3W10219	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.08	0.21	0.41	0.825	dB/ft	
			0.14	0.27	0.68	1.36	2.71	dB/m	
PE3W10219-12	12 inch	Insertion Loss (Typ.)	0.25	0.29	0.41	0.62	1.03	dB	0.02
PE3W10219-24	24 inch	Insertion Loss (Typ.)	0.29	0.37	0.62	1.03	1.85	dB	0.026
PE3W10219-36	36 inch	Insertion Loss (Typ.)	0.33	0.45	0.82	1.44	2.68	dB	0.031
PE3W10219-48	48 inch	Insertion Loss (Typ.)	0.37	0.53	1.03	1.85	3.5	dB	0.036
PE3W10219-72	72 inch	Insertion Loss (Typ.)	0.45	0.7	1.44	2.68	5.15	dB	0.046

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: 0.1 dB
 Base Weight: 0.02 pounds
 Additional Weight per Inch: 0.00042 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.02 lbs [9.07 g]

Cable

Cable Type: RG196
 Impedance: 50 Ohms
 Inner Conductor Type: Stranded
 Inner Conductor Material and Plating: Copper Clad Steel, Silver
 Dielectric Type: PTFE
 Number of Shields: 1
 Shield Layer 1: Silver Plated Copper Braid
 Jacket Material: PTFE, White
 Jacket Diameter: 0.08 in [2.03 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Female Bulkhead	SMP Female
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method		Push-On
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification		MIL-DTL-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Gold	Beryllium Copper, Gold
Outer Conductor Plating Specification		MIL-DTL-45204
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification		MIL-DTL-45204
Coupling Nut Material and Plating	Brass, Gold	

Environmental Specifications

Operating Range Temperature -55 to +155 deg C

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

Plotted and Other Data

Notes:

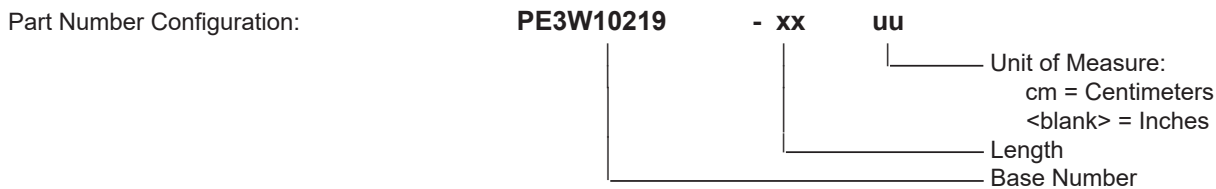
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Typical Performance Data

How to Order



Example: PE3W10219-12 = 12 inches long cable
PE3W10219-100cm = 100 cm long cable

SMA Female Bulkhead to Push-On SMP Female Cable Using RG196 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 Female Bulkhead to Push-On SMP Female Cable Using RG196 Coax PE3W10219](#)

URL: <https://www.pasternack.com/sma-female-bulkhead-to-push-on-smp-female-cable-using-rg196-pe3w10219-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 impliment 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.

PE3W10219 CAD Drawing

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