

#### **PE3197**

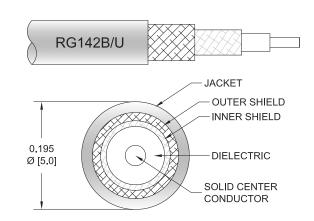
#### Configuration

Connector 1: SMA Male Right Angle
Connector 2: N Female Bulkhead

Cable Type: RG142Coax Flex Type: Flexible

#### **Features**

- · Max Frequency 6 GHz
- · 70% Phase Velocity
- · Double Shielded
- · FEP Jacket



#### **Applications**

· General Purpose

· Laboratory Use

#### **Description**

Pasternack's PE3197 SMA male right angle to type N female bulkhead cable using RG142 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 type N cable assembly has a male to female gender configuration with 50 ohm flexible RG142 coax. The PE3197 SMA male to type N female cable assembly operates to 6 GHz. The right angle SMA interface on the RG142 cable allows for easier connections in tight spaces. Our RF cable assembly with type N 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. The double 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

#### Specifications by Frequency



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#### **PE3197**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3197	Custom Lengths	Insertion Loss (Typ.)	0.059	0.087	0.129	0.212	0.385	dB/ft	
PE3197	Available	ilisertion Loss (Typ.)	0.2	0.29	0.43	0.7	1.27	dB/m	
PE3197-12	12 inch	Insertion Loss (Typ.)	0.36	0.39	0.43	0.52	0.69	dB	0.148
PE3197-24	24 inch	Insertion Loss (Typ.)	0.42	0.48	0.56	0.73	1.07	dB	0.19
PE3197-36	36 inch	Insertion Loss (Typ.)	0.48	0.57	0.69	0.94	1.46	dB	0.232
PE3197-48	48 inch	Insertion Loss (Typ.)	0.54	0.65	0.82	1.15	1.84	dB	0.274
PE3197-60	60 inch	Insertion Loss (Typ.)	0.6	0.74	0.95	1.36	2.23	dB	0.316

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: 0.1 dB
Base Weight: 0.148 pounds
Additional Weight per Inch: 0.0035 pounds

#### **Mechanical Specifications**

#### **Cable Assembly**

Weight 0.148 lbs [67.13 g]

#### Cable

Cable TypeRG142Impedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric TypePTFENumber of Shields2Shield Layer 1Silver Plated Copper BraidShield Layer 2Silver Plated Copper Braid

Jacket Material FEP, Tan

Jacket Diameter0.195 in [4.95 mm]Repeated Minimum Bend Radius1 in [25.4 mm]



## **PE3197**

#### **Connectors**

Description	Connector 1	Connector 2
Туре	SMA Male Right Angle	N Female Bulkhead
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μin minimum	30 μin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Outer Conductor Plating Specification		100 μin minimum
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μin minimum	100 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

-55 to +165 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

Values at 25°C, sea level.





### **PE3197**

#### **Typical Performance Data**

#### **How to Order**

Part Number Configuration:

PE3197 - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
chlank> = Inches
Length
Base Number

Example: PE3197-12 = 12 inches long cable

PE3197-100cm = 100 cm long cable

SMA Male Right Angle to N Female Bulkhead Cable Using RG142 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 Right Angle to N Female Bulkhead Cable Using RG142 Coax PE3197

URL: https://www.pasternack.com/sma-male-right-angle-to-n-female-bulkhead-cable-using-rg142-pe3197-p.aspx

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