



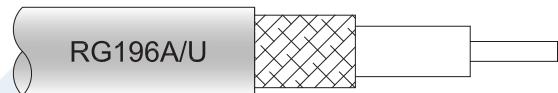
## SMC Plug to 10-32 Male Right Angle Cable 50 cm Length Using RG196 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W00597-50CM**

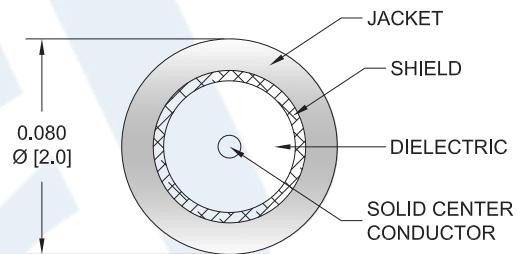
#### Configuration

- Connector 1: SMC Plug
- Connector 2: 10-32 Male Right Angle
- Cable Type: RG196



#### Features

- Max Frequency 400 MHz
- PTFE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W00597-50CM SMC plug to 10-32 male right angle 50 cm 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 SMC to 10-32 cable assembly has a plug to male gender configuration with 50 ohm flexible RG196 coax. The PE3W00597-50CM SMC plug to 10-32 male cable assembly operates to 400 MHz. The right angle 10-32 interface on the RG196 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		400	MHz
VSWR			1.5:1	
Capacitance		32 [104.99]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug to 10-32 Male Right Angle Cable 50 cm Length Using RG196 Coax PE3W00597-50CM](#)



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#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	400				MHz
Insertion Loss (Typ.)	0.39	0.72				dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Length\*  
Diameter

19.69 in [500.13 mm]  
0.25 in [6.35 mm]

##### Cable

Cable Type  
Impedance  
Inner Conductor Type  
Inner Conductor Material and Plating  
Dielectric Type  
Number of Shields  
Shield Layer 1  
Jacket Material  
Jacket Diameter

RG196  
50 Ohms  
Stranded  
Copper Clad Steel, Silver  
PTFE  
1  
Silver Plated Copper  
PTFE, White  
0.08 in [2.03 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMC Plug	10-32 Male Right Angle
Specification	MIL-STD-348A	MIL-C-39012
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Gold
Contact Plating Specification	30µ in. minimum	MIL-G-45204
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100µ in. minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100µ in. minimum	
Hex Size	1/4 in	
Torque	3 in-lbs [0.34 Nm]	

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", whichever is greater.

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

#### Plotted and Other Data

Notes:

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## SMC Plug to 10-32 Male Right Angle Cable 50 cm Length Using RG196 Coax

### RF Cable Assemblies Technical Data Sheet

PE3W00597-50CM

#### How to Order

Part Number Configuration:

**PE3W00597**

- **xx**

**uu**

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

Example: PE3W00597-12 = 12 inches long cable  
PE3W00597-100cm = 100 cm long cable

SMC Plug to 10-32 Male Right Angle Cable 50 cm Length 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.

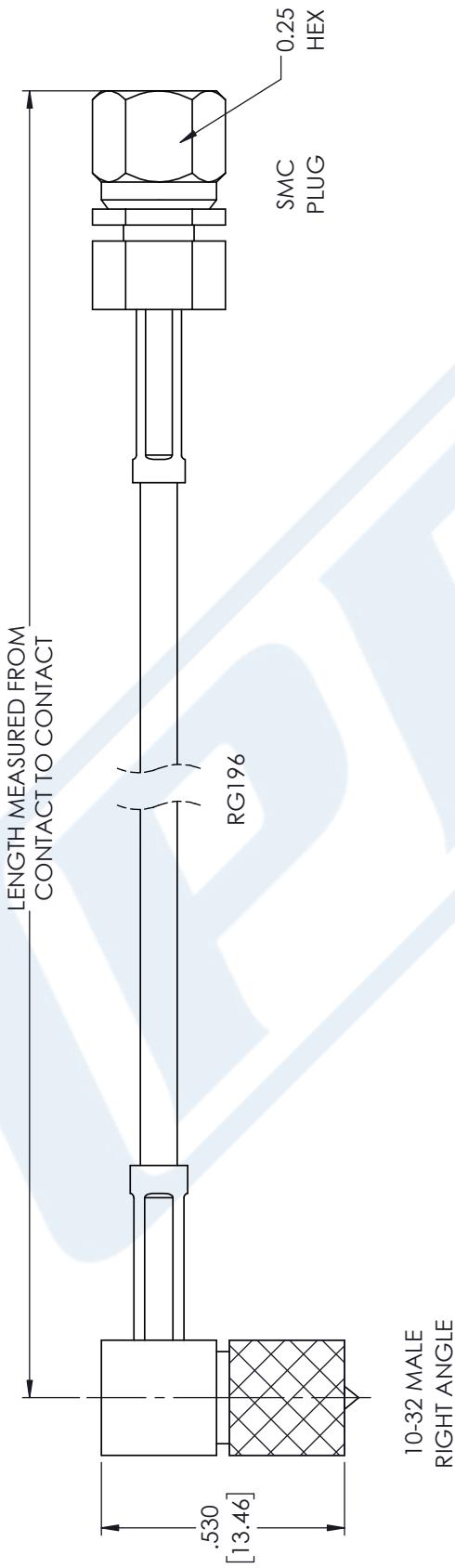
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URL: <https://www.pasternack.com/smc-plug-10-32-male-rg196au-cable-assembly-pe3w00597-50cm-p.aspx>

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.

# PE3W00597-50CM CAD Drawing

SMC Plug to 10-32 Male Right Angle Cable 50 cm Length Using RG196 Coax



STANDARD TOLERANCES		
X	$\pm 0.2$	
.XX	$\pm 0.01$	
.XXX	$\pm 0.005$	

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

**PE PASTERNACK®**  
THE ENGINEER'S RF SOURCE

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NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE	CAD FILE	SCALE	SIZE
PE3W00597	02/07/18	N/A	A