



## SMA Male Right Angle to SMA Male Cable 100 cm Length Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

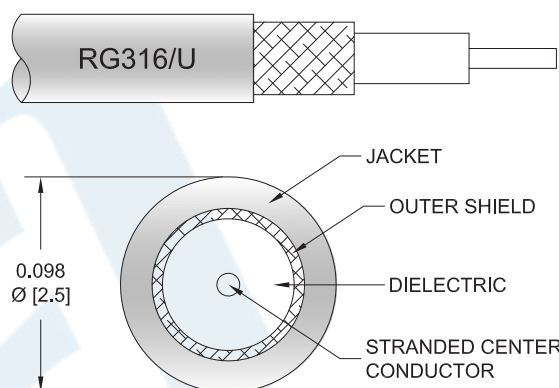
PE3W06425-100CM

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male
- Cable Type: RG316

#### Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W06425-100CM SMA male right angle to SMA male 100 cm cable using RG316 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 RG316 coax. The PE3W06425-100CM SMA male to SMA male cable assembly operates to 3 GHz. The right angle SMA interface on the RG316 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		3	GHz
VSWR			1.5:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms
Jacket Spark			2,000	Vrms

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 Cable 100 cm Length Using RG316 Coax PE3W06425-100CM](#)



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#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.74	0.87	1.55	1.94	2.21	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Length*	39.37 in [100 cm]
Diameter	0.315 in [8 mm]

##### Cable

Cable Type	RG316
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	FEP, Tan
Jacket Diameter	0.102 in [2.59 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Nickel	Brass, Gold
Contact Plating Specification	50 µin minimum	30 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]

**Mechanical Specification Notes:**

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

**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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## SMA Male Right Angle to SMA Male Cable 100 cm Length Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

PE3W06425-100CM

#### How to Order

Part Number Configuration:

**PE3W06425**

- **xx**

**uu**

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

Example: PE3W06425-12 = 12 inches long cable  
PE3W06425-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Cable 100 cm Length Using RG316 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 SMA Male Cable 100 cm Length Using RG316 Coax PE3W06425-100CM](https://www.pasternack.com/sma-male-sma-male-rg316u-cable-assembly-pe3w06425-100cm-p.aspx)

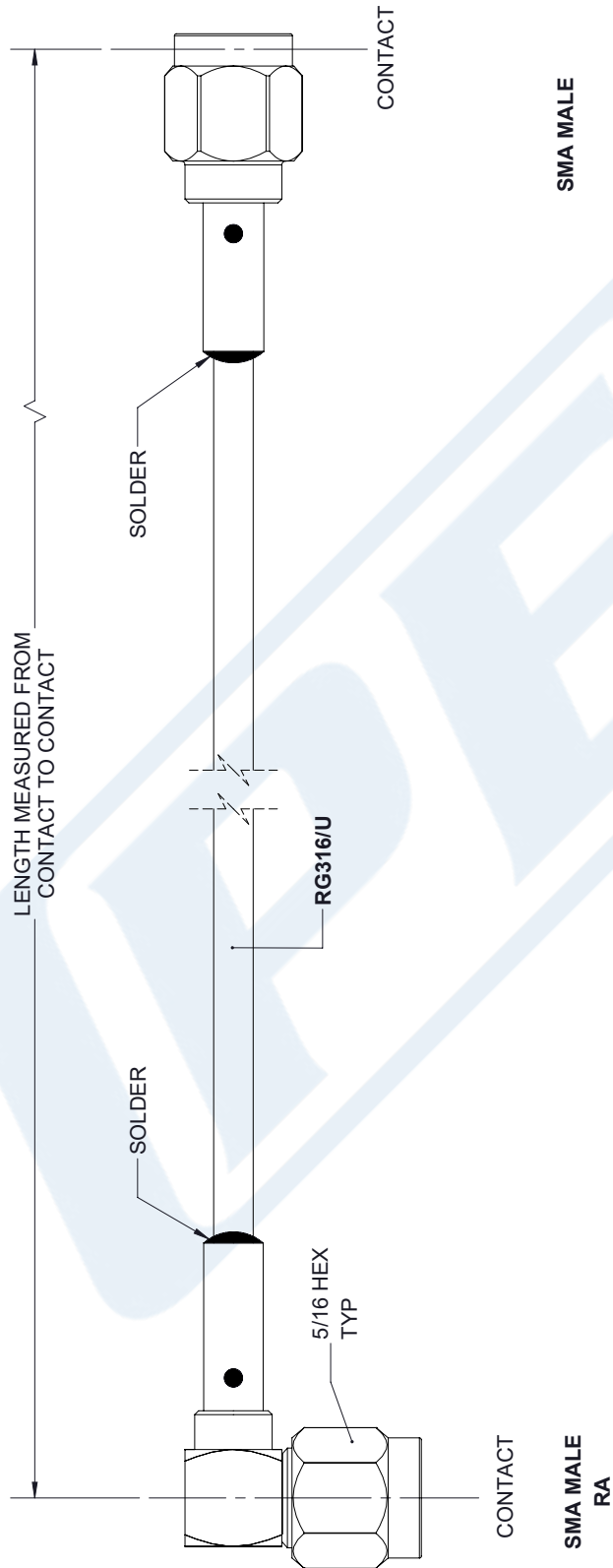
URL: <https://www.pasternack.com/sma-male-sma-male-rg316u-cable-assembly-pe3w06425-100cm-p.aspx>

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.

# PE3W06425-100CM CAD Drawing

SMA Male Right Angle to SMA Male Cable 100 cm Length Using RG316 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/23/19	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS			<div><div><div>PE</div><div>PASTERNAK</div><div>an INFINITE brand</div></div><div>Pasternack Enterprises, Inc. P.O.Box 16759, Irvine, CA 92623. Phone: 1 949.261.1920   1.866.727.8376 Fax: 1 949.261.7451 www.pasternack.com   e-mail: sales@pasternack.com</div></div>			THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.		
TOLERANCES:			SHEET 1 OF 1			SCALE N/A		
X±.2 [5.08] FRACTIONS XX±.01 [.25] ±.132 XXX±.005 [.13] ANGLES ± 1°			www.pasternack.com			REV A		
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			SIZE [CAGE] DRAWN BY PART NUMBER			REV		
THIRD-ANGLE PROJECTION			A 53919 K.DANG PE3W06425			A		
								

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