



## SMA Male to Push-On SMP Female Right Angle Cable Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

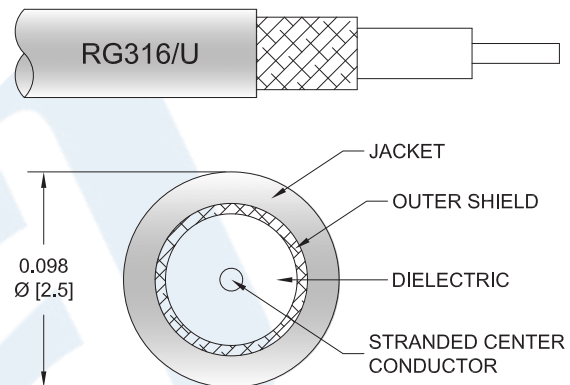
PE3W05274

#### Configuration

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

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W05274 SMA male to SMP female push-on right angle 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 SMP cable assembly has a male to female gender configuration with 50 ohm flexible RG316 coax. The PE3W05274 SMA male to SMP female cable assembly operates to 3 GHz. The right angle SMP 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		%
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 to Push-On SMP Female Right Angle Cable Using RG316 Coax PE3W05274](#)



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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.)	0.16	0.24	0.38	0.53	0.58	dB/ft
	0.52	0.79	1.25	1.74	1.9	dB/m

**Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.3dB of connector loss.

**Mechanical Specifications**

**Cable Assembly**

**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	0.098 in [2.49 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMP Female Right Angle
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method		Push-On
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		30µ in. minimum
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		3µ in. minimum
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification		3µ in. minimum
Coupling Nut Material and Plating	Brass, Gold	
Hex Size	5/16 in	
Torque	5 in-lbs [0.57 Nm]	

Mechanical Specification Notes:

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

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

**Plotted and Other Data**

Notes:

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**How to Order**

Part Number Configuration:

**PE3W05274**

- **xx**

**uu**

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

Example: PE3W05274-12 = 12 inches long cable  
PE3W05274-100cm = 100 cm long cable

SMA Male to Push-On SMP Female Right Angle Cable 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 to Push-On SMP Female Right Angle Cable Using RG316 Coax PE3W05274](#)

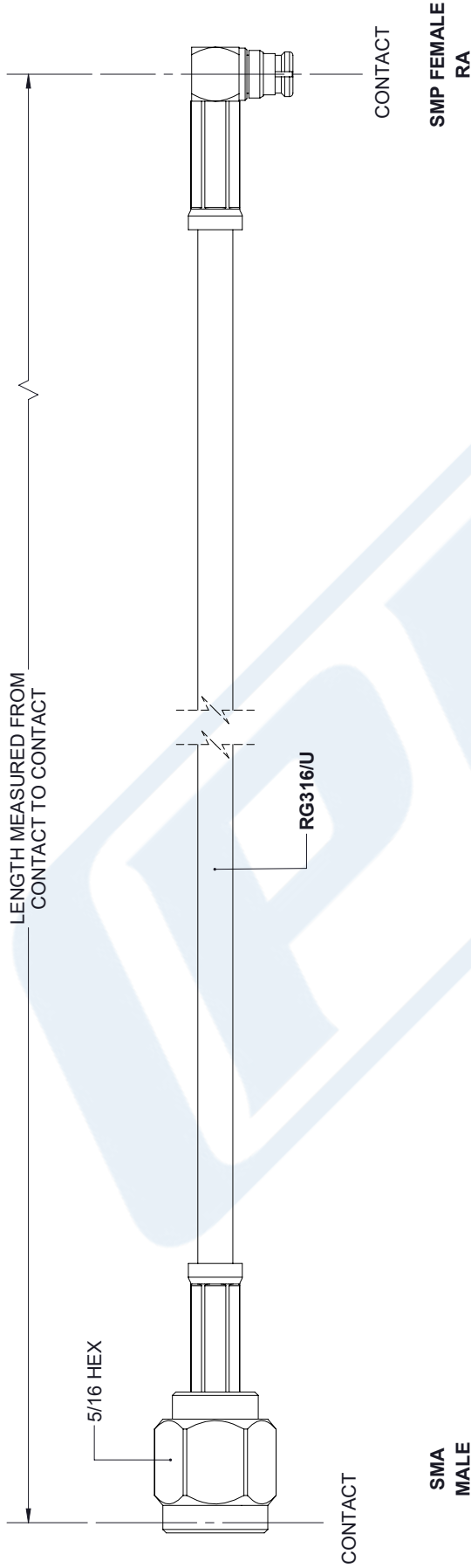
URL: <https://www.pasternack.com/sma-male-smp-female-rg316u-cable-assembly-pe3w05274-p.aspx>

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.

# PE3W05274 CAD Drawing

SMA Male to Push-On SMP Female Right Angle Cable Using RG316 Coax

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	01/29/19
		APPROVED J.GARCIA



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.XX±.01	[.25]	±.132									
.XXX±.005	[.13]	ANGLES ± 1°									
<p><b>PE PASTERNAK</b> an INFINITO brand</p> <p>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</p>	<p>SIZE A</p> <p>CAGE 53919</p> <p>DRAWN BY KDANG</p> <p>PART NUMBER PE3W05274</p> <p>REV A</p>	<p>THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.</p>									