

## SMA Male Right Angle to Push-On SMP Female Right Angle Cable 48 Inch Length Using RG316 Coax with 180 Deg. Clock



### PE3W05056/SP-48

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: Push-On SMP Female Right Angle
- Cable Type: RG316
- Coax Flex Type: Flexible

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W05056/SP-48 SMA male right angle to SMP female push-on right angle 48 inch 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 PE3W05056/SP-48 SMA male to SMP female cable assembly operates to 3 GHz. The right angle SMA and right angle SMP interfaces on the RG316 cable allow 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			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3W05056/SP	Custom Lengths Available	Insertion Loss (Typ.)	0.11	0.16	0.24	0.38	0.58	dB/ft	
			0.37	0.53	0.79	1.25	1.91	dB/m	
PE3W05056/SP-12	12 inch	Insertion Loss (Typ.)	0.51	0.56	0.64	0.78	0.98	dB	0.034
PE3W05056/SP-24	24 inch	Insertion Loss (Typ.)	0.62	0.72	0.88	1.16	1.56	dB	0.045
PE3W05056/SP-36	36 inch	Insertion Loss (Typ.)	0.73	0.88	1.12	1.54	2.14	dB	0.055
PE3W05056/SP-48	48 inch	Insertion Loss (Typ.)	0.84	1.04	1.36	1.92	2.72	dB	0.065
PE3W05056/SP-72	72 inch	Insertion Loss (Typ.)	1.06	1.36	1.83	2.68	3.88	dB	0.085

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:	0.2 dB
Base Weight:	0.034 pounds
Additional Weight per Inch:	0.00084 pounds

**Mechanical Specifications**

**Cable Assembly**

Length	48 in [121.92 cm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.065 lbs [29.48 g]

**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	SMP Female Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Connection Method		Push-On
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μin minimum	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, Nickel	Brass, Gold
Body Plating Specification	100 μin minimum	3μ in. 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:

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**PE3W05056/SP-48**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3W05056/SP - xx uu**



Example: PE3W05056/SP-12 = 12 inches long cable  
PE3W05056/SP-100cm = 100 cm long cable

SMA Male Right Angle to Push-On SMP Female Right Angle Cable 48 Inch Length Using RG316 Coax with 180 Deg. Clock 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 Push-On SMP Female Right Angle Cable 48 Inch Length Using RG316 Coax with 180 Deg. Clock PE3W05056/SP-48](https://www.pasternack.com/sma-male-right-angle-to-push-on-smp-female-right-angle-cable-48-inch-length-using-rg316-coax-with-180-deg-clock-pe3w05056-sp-48)

URL: <https://www.pasternack.com/sma-male-right-angle-to-push-on-smp-female-cable-48-inch-length-using-rg316-with-180-deg.-clock-pe3w05056-sp-48-p.aspx>

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# PE3W05056/SP-48 CAD Drawing

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