

## SMP Female Right Angle to SMA Male Cable Using PE-SR405FL Coax

### PE37028

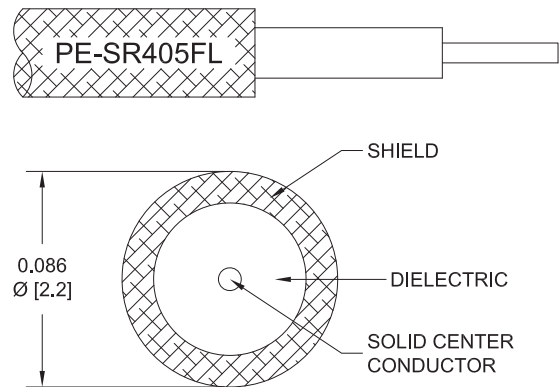


#### Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: SMA Male
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

#### Features

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE37028 SMP female right angle to SMA male cable using PE-SR405FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMP to SMA cable assembly has a female to male gender configuration with 50 ohm formable PE-SR405FL coax. The PE37028 SMP female to SMA male cable assembly operates to 12.4 GHz. The right angle SMP interface on the PE-SR405FL 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		12.4	
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	12400	MHz	
PE37028	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.22	0.34	0.54	0.9	dB/ft	
			0.5	0.73	1.12	1.78	2.96	dB/m	
PE37028-6	6 inch	Insertion Loss (Typ.)	0.25	0.31	0.43	0.6	0.91	dB	0.02
PE37028-9	9 inch	Insertion Loss (Typ.)	0.29	0.37	0.52	0.73	1.13	dB	0.023
PE37028-12	12 inch	Insertion Loss (Typ.)	0.33	0.42	0.6	0.87	1.36	dB	0.025
PE37028-24	24 inch	Insertion Loss (Typ.)	0.48	0.64	0.94	1.41	2.26	dB	0.037
PE37028-36	36 inch	Insertion Loss (Typ.)	0.63	0.86	1.28	1.95	3.16	dB	0.048

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: 0.1 x sqrt(fGHz) dB  
 Loss due to Connector 2: 0.1 dB  
 Base Weight: 0.025 pounds  
 Additional Weight per Inch: 0.00092 pounds

## Mechanical Specifications

### Cable Assembly

Weight 0.025 lbs [11.34 g]

### Cable

Cable Type PE-SR405FL  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Outer Conductor 1 Material and Plating Copper, Tin  
 Repeated Minimum Bend Radius 0.78 in [19.81 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMP Female Right Angle	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Stainless Steel, Gold
Body Plating Specification		10 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

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

#### Plotted and Other Data

Notes:

## SMP Female Right Angle to SMA Male Cable Using PE-SR405FL Coax



### PE37028

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE37028**

**- xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE37028-12 = 12 inches long cable  
PE37028-100cm = 100 cm long cable

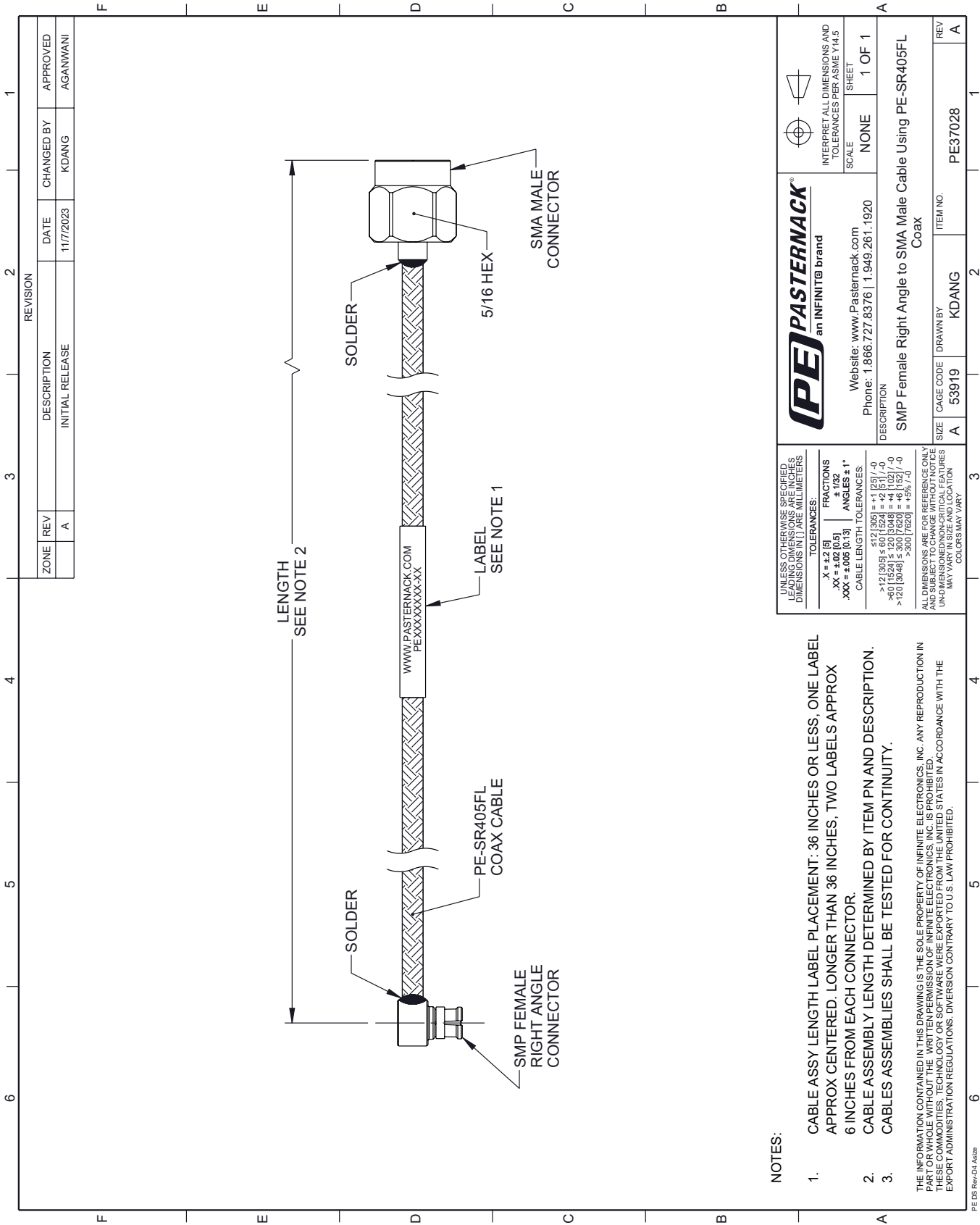
SMP Female Right Angle to SMA Male Cable Using PE-SR405FL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female Right Angle to SMA Male Cable Using PE-SR405FL Coax PE37028](#)

URL: <https://www.pasternack.com/smp-female-right-angle-to-sma-male-cable-using-pe-sr405fl-pe37028-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE37028 CAD Drawing
SMP Female Right Angle to SMA Male Cable Using PE-SR405FL Coax



<b>PE PASTERNAK</b> an INFINITE brand			INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		SCALE	SHEET
DESCRIPTION SMP Female Right Angle to SMA Male Cable Using PE-SR405FL Coax		NONE	1 OF 1
SIZE	CAGE CODE	DRAWN BY	REV
A	53919	KDANG	A
ITEM NO.		PE37028	

NOTES:

- CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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