



## SMA Male Right Angle to Mini SMP Female Right Angle Cable Using PE-P086 Coax

### TECHNICAL DATA SHEET

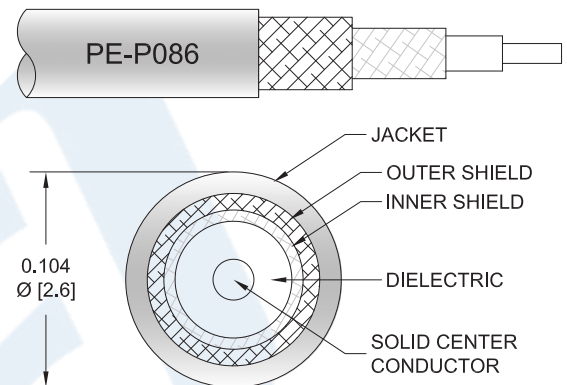
PE3C3371

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: Mini SMP Female Right Angle
- Cable Type: PE-P086
- Coax Flex Type: Flexible

#### Features

- Max Frequency 10 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C3371 SMA male right angle to Mini SMP female right angle cable using PE-P086 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 Mini SMP cable assembly has a male to female gender configuration with 50 ohm flexible PE-P086 coax. The PE3C3371 SMA male to Mini SMP female cable assembly operates to 10 GHz. The right angle SMA and right angle Mini SMP interfaces on the PE-P086 cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 110 dB.

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.

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 Mini SMP Female Right Angle Cable Using PE-P086 Coax PE3C3371](#)



## SMA Male Right Angle to Mini SMP Female Right Angle Cable Using PE-P086 Coax

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**PE3C3371**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			500	1000	2500	5000	10000	MHz	
PE3C3371	Custom Lengths Available	Insertion Loss (Typ.)	0.11	0.21	0.338	0.503	0.743	dB/ft	
			0.37	0.69	1.11	1.66	2.44	dB/m	
PE3C3371-6	6 inch	Insertion Loss (Typ.)	0.3	0.36	0.45	0.57	0.73	dB	0.023
PE3C3371-12	12 inch	Insertion Loss (Typ.)	0.35	0.46	0.62	0.82	1.11	dB	0.029
PE3C3371-24	24 inch	Insertion Loss (Typ.)	0.46	0.67	0.96	1.32	1.85	dB	0.043
PE3C3371-36	36 inch	Insertion Loss (Typ.)	0.57	0.88	1.3	1.83	2.59	dB	0.056
PE3C3371-48	48 inch	Insertion Loss (Typ.)	0.68	1.09	1.64	2.33	3.34	dB	0.069

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:	0.05*SQRT(FGHz) dB
Base Weight:	0.029 pounds
Additional Weight per Inch:	0.00109 pounds

#### Mechanical Specifications

##### Cable Assembly

Weight 0.029 lbs [13.15 g]

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SMA Male Right Angle to Mini SMP Female  
Right Angle Cable Using PE-P086 Coax

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**Cable**

Cable Type	PE-P086
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.104 in [2.64 mm]
Repeated Minimum Bend Radius	0.52 in [13.21 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male Right Angle Threaded	Mini SMP Female Right Angle Push-On
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	8 µin minimum	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold
Body Plating Specification	4 µin minimum	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 in.	
Torque	8 in-lbs [0.9 Nm]	

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

**Plotted and Other Data**

Notes:

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 Mini SMP Female Right Angle Cable Using PE-P086 Coax PE3C3371](#)



## SMA Male Right Angle to Mini SMP Female Right Angle Cable Using PE-P086 Coax

### TECHNICAL DATA SHEET

**PE3C3371**

#### How to Order

Part Number Configuration:

**PE3C3371**

- **xx**

**uu**

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

Example: PE3C3371-12 = 12 inches long cable  
PE3C3371-100cm = 100 cm long cable

SMA Male Right Angle to Mini SMP Female Right Angle Cable Using PE-P086 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 Mini SMP Female Right Angle Cable Using PE-P086 Coax PE3C3371](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-mini-smp-female-cable-using-pe-p086-pe3c3371-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.

# PE3C3371 CAD Drawing

SMA Male Right Angle to Mini SMP Female Right Angle Cable Using PE-P086 Coax

F E D C B A

1

2

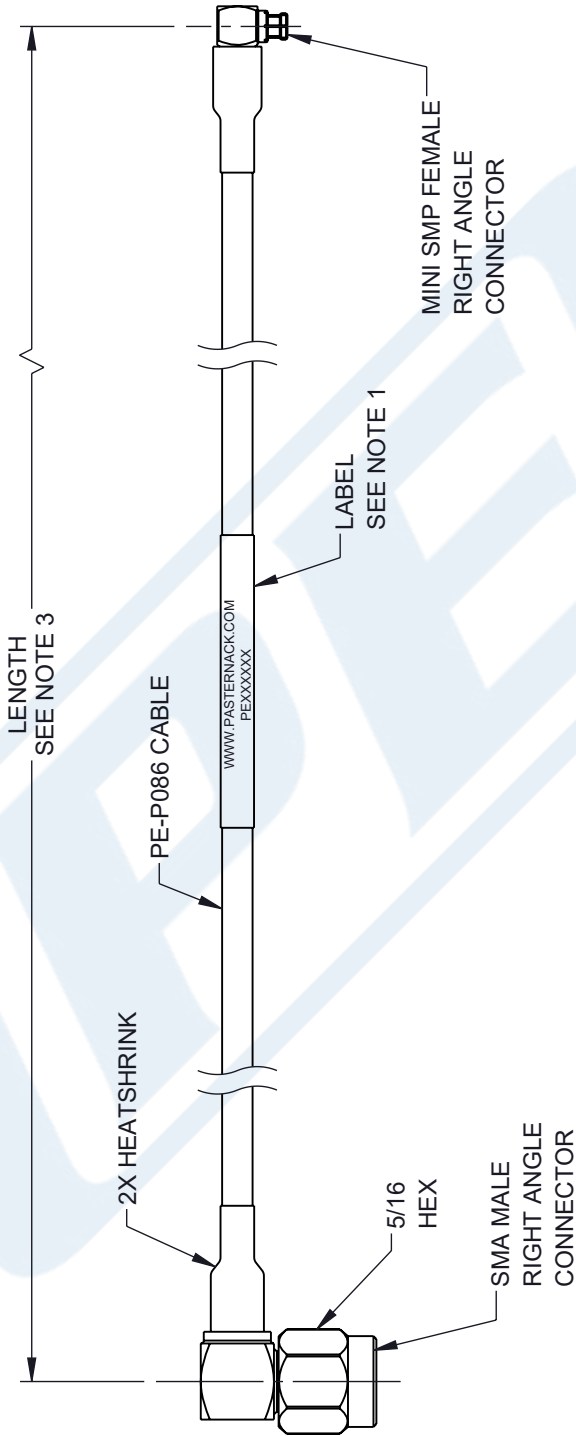
3

4

5

6

REVISION		DATE	CHANGED BY	APPROVED BY
ZONE	REV.	DATE <td>CHANGED BY</td> <td>APPROVED BY</td>	CHANGED BY	APPROVED BY
	A	11/16/2023	BPUCHASKI	AGANWANI



**NOTES:**

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

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	±.1/32
.XX = ±.02 [0.5]	±.005 [0.13]
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
>12 [305] ≤ 60 [1524]	±.02 [0.51] / -0
>60 [1524] ≤ 120 [3048]	±.04 [1.02] / -0
>120 [3048] ≤ 300 [7620]	±.06 [1.52] / -0
>300 [7620]	±.09 [2.29] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

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DESCRIPTION: SMA MALE RIGHT ANGLE TO MINI SMP FEMALE RIGHT ANGLE CABLE USING PE-P086 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	BPUCHASKI	PE3C3371	A