



## SMA Male Right Angle to SMA Male Right Angle Cable Using PE-P086 Coax with HeatShrink

### TECHNICAL DATA SHEET

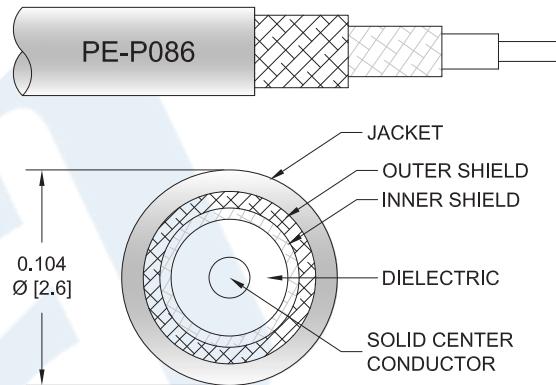
**PE3C1439/HS**

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male 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 PE3C1439/HS SMA male right angle to SMA male 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible PE-P086 coax. The PE3C1439/HS SMA male to SMA male cable assembly operates to 10 GHz. The right angle SMA 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 SMA Male Right Angle Cable Using PE-P086 Coax with HeatShrink PE3C1439/HS](#)



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**PE3C1439/HS**

#### 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)
		Frequency	500	1000	2500	5000	10000		
PE3C1439/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.11	0.21	0.338	0.503	0.743	dB/ft	
			0.35	0.7	1.11	1.66	2.44	dB/m	
PE3C1439/HS-6	6 inch	Insertion Loss (Typ.)	0.46	0.51	0.57	0.66	0.78	dB	0.025
PE3C1439/HS-12	12 inch	Insertion Loss (Typ.)	0.51	0.62	0.74	0.91	1.15	dB	0.031
PE3C1439/HS-24	24 inch	Insertion Loss (Typ.)	0.62	0.83	1.08	1.41	1.89	dB	0.045
PE3C1439/HS-36	36 inch	Insertion Loss (Typ.)	0.72	1.04	1.42	1.91	2.63	dB	0.058
PE3C1439/HS-48	48 inch	Insertion Loss (Typ.)	0.83	1.25	1.76	2.42	3.38	dB	0.071

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:	0.031 pounds
Additional Weight per Inch:	0.00109 pounds

#### Mechanical Specifications

##### Cable Assembly

Weight	0.031 lbs [14.06 g]
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**PE3C1439/HS**

#### 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

0.5 in [12.7 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle Threaded	SMA Male Right Angle Threaded
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Contact Plating Specification	8 $\mu$ in minimum	8 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Body Plating Specification	4 $\mu$ in minimum	4 $\mu$ in minimum
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]

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

#### Plotted and Other Data

Notes:

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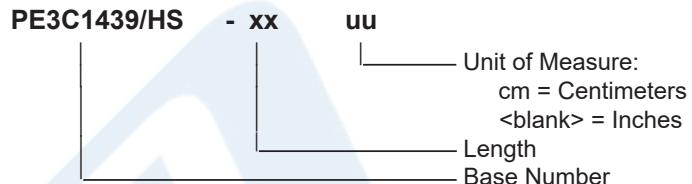
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**PE3C1439/HS**

#### How to Order

Part Number Configuration:



Example: PE3C1439/HS-12 = 12 inches long cable  
PE3C1439/HS-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Cable Using PE-P086 Coax with HeatShrink 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.

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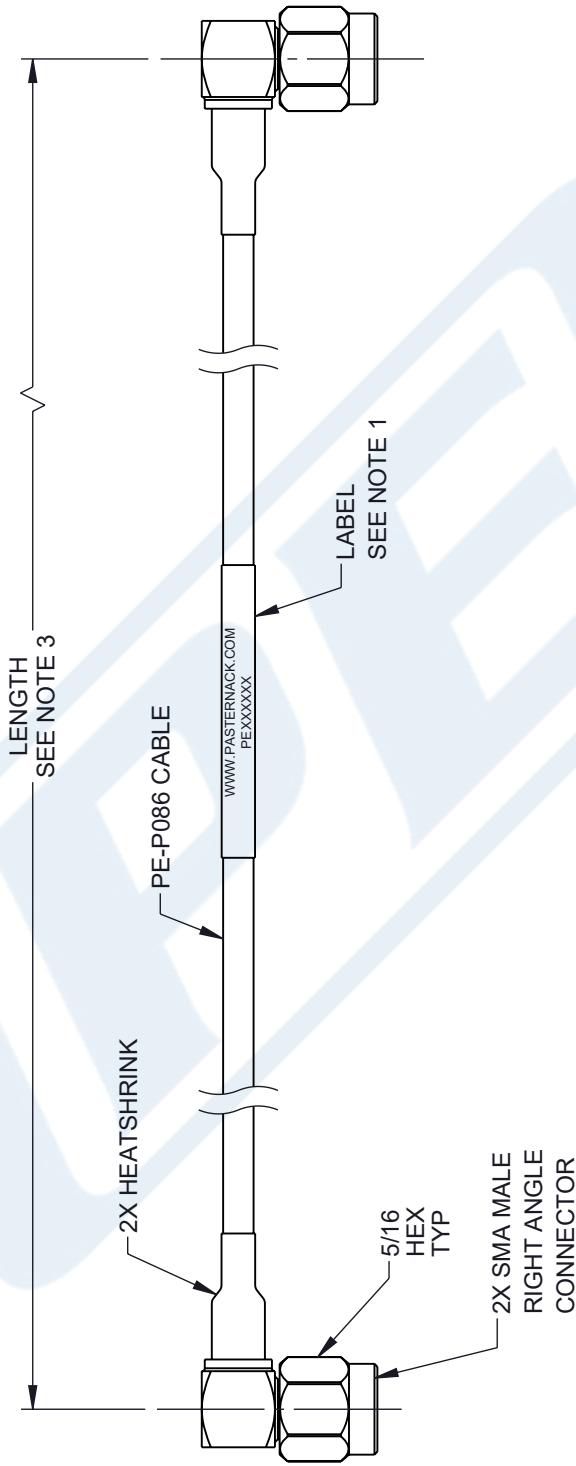
URL: <https://www.pasternack.com/sma-male-right-angle-to-sma-male-cable-using-pe-p086-with-heatshrink-pe3c1439-hs-p.aspx>

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.

PE3C1439/HS CAD Drawing

## SMA Male Right Angle to SMA Male Right Angle Cable Using PE-P086 Coax with HeatShrink

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	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

1

PE PASTERNACK® an INFINITI® brand	
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	TOLERANCES:
$X = \pm 0.2 [5]$	FRACTIONS
$XX = \pm 0.02 [0.5]$	$\pm 1/32$
$XXX = \pm 0.005 [0.13]$	ANGLES $\pm 1^\circ$
CABLE LENGTH TOLERANCES:	
$>12 [305] \leq 60 [1524]$	$\pm 1/2 [305] = 1.1 [25]$
$>12 [305] \leq 120 [3050]$	$\pm 1/2 [305] = 1.1 [25]$
DESCRIPTION	
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
SCALE	NONE
SHEET	1 OF 1