



## SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR402FL Coax with 90 Deg. Clock

### TECHNICAL DATA SHEET

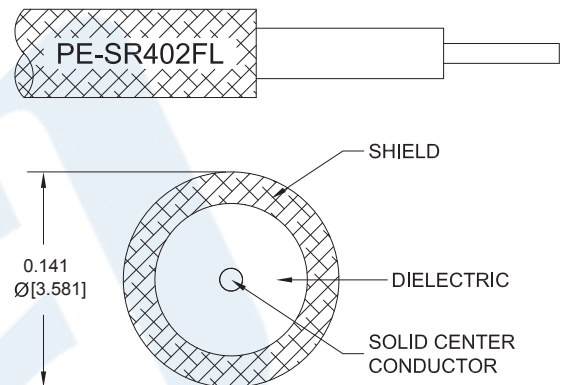
PE39424/PH90

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

#### Features

- Max Frequency 10 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE39424/PH90 SMA male right angle to SMA male right angle cable using PE-SR402FL 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FL coax. The PE39424/PH90 SMA male to SMA male cable assembly operates to 10 GHz. The right angle SMA interfaces on the PE-SR402FL 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.

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-SR402FL Coax with 90 Deg. Clock PE39424/PH90](#)



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**PE39424/PH90**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		5.5 [18.04]		$\Omega$ /1000ft [ $\Omega$ /Km]

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	500	1000	2500	5000	#####	
PE39424/PH90	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.18	0.29	0.45	dB/ft	
			0.27	0.4	0.6	0.96	1.48	dB/m	
PE39424/PH90-6	6 inch	Insertion Loss (Typ.)	0.44	0.46	0.49	0.55	0.63	dB	0.023
PE39424/PH90-9	9 inch	Insertion Loss (Typ.)	0.46	0.49	0.54	0.62	0.74	dB	0.029
PE39424/PH90-12	12 inch	Insertion Loss (Typ.)	0.48	0.52	0.58	0.69	0.85	dB	0.035
PE39424/PH90-18	18 inch	Insertion Loss (Typ.)	0.52	0.58	0.67	0.84	1.08	dB	0.048
PE39424/PH90-24	24 inch	Insertion Loss (Typ.)	0.56	0.64	0.76	0.98	1.3	dB	0.061

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:	0.035 pounds
Additional Weight per Inch:	0.00209 pounds

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight	0.035 lbs [15.88 g]
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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-SR402FL Coax with 90 Deg. Clock PE39424/PH90](#)



## SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR402FL Coax with 90 Deg. Clock

### TECHNICAL DATA SHEET

**PE39424/PH90**

#### Cable

Cable Type	PE-SR402FL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Repeated Minimum Bend Radius	0.625 in [15.88 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
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
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:

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-SR402FL Coax with 90 Deg. Clock PE39424/PH90](#)



## SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR402FL Coax with 90 Deg. Clock

### TECHNICAL DATA SHEET

**PE39424/PH90**

#### How to Order

Part Number Configuration:

**PE39424/PH90**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE39424/PH90-12 = 12 inches long cable  
PE39424/PH90-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR402FL Coax with 90 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 SMA Male Right Angle Cable Using PE-SR402FL Coax with 90 Deg. Clock PE39424/PH90](#)

URL: <https://www.pasternack.com/sma-male-sma-male-pe-sr402fl-cable-assembly-pe39424-ph90-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.

# PE39424/PH90 CAD Drawing

SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR402FL Coax with 90 Deg. Clock

F E D C B A

1

2

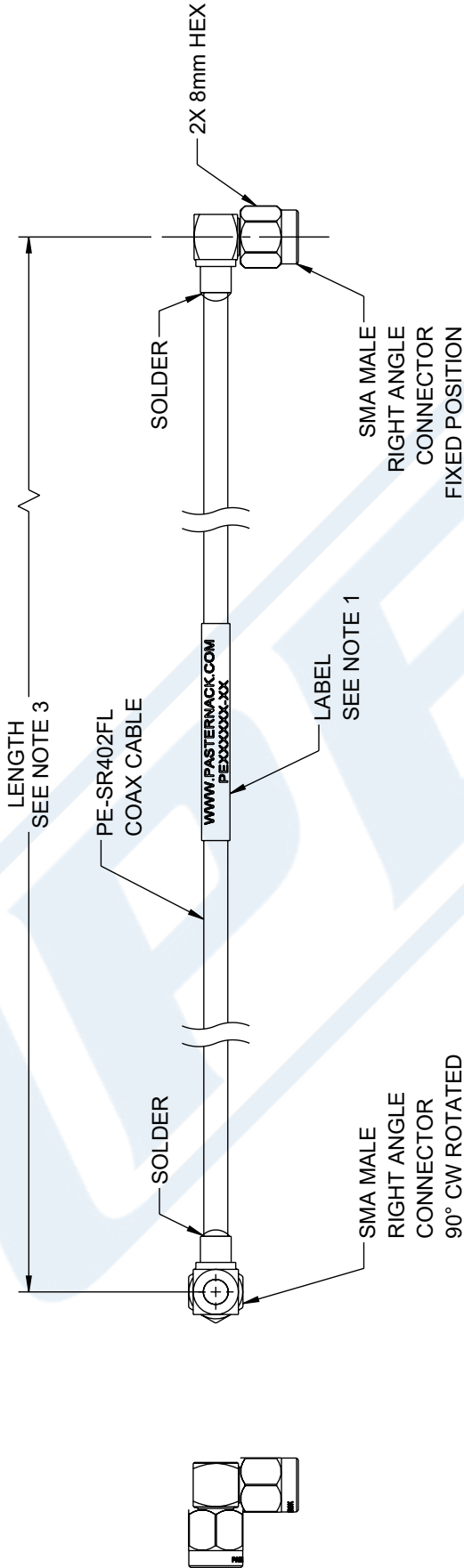
3

4

5

6

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION		
	A	INITIAL RELEASE	HBAKKE	AGANWANI
			10/17/2023	



## NOTES:

- 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.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.	TOLERANCES:
.X = ±.2 [5]	FRACTIONS
.XX = ±.02 [0.5]	±.1/32
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
>12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0	
>60 [1524] ≤ 120 [3048] = ±.2 [5.0] / -0	
>120 [3048] ≤ 300 [7620] = ±.4 [10.2] / -0	
>300 [7620] = ±.5% / -0	

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ON CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE  
SHEET: 1 OF 1

DESCRIPTION:  
SMA MALE RIGHT ANGLE TO SMA MALE RIGHT ANGLE CABLE USING PE-SR402FL COAX WITH 90 DEG. CLOCK

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	PE39424/PH90
REV	A		

F E D C B A