



SMA Male Right Angle to SMA Male Right Angle Cable
Using PE-SR402FLJ Coax with 180 Deg. Clock

TECHNICAL DATA SHEET

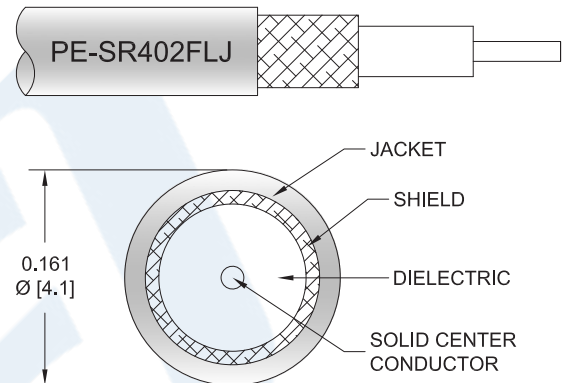
PE3C3571/PH180

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR402FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C3571/PH180 SMA male right angle to SMA male right angle cable using PE-SR402FLJ 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-SR402FLJ coax. The PE3C3571/PH180 SMA male to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interfaces on the PE-SR402FLJ 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-SR402FLJ Coax with 180 Deg. Clock PE3C3571/PH180](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	#####	MHz	
PE3C3571/PH180	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.18	0.32	0.54	dB/ft	
			0.27	0.4	0.6	1.05	1.78	dB/m	
PE3C3571/PH180-6	6 inch	Insertion Loss (Typ.)	0.44	0.46	0.49	0.56	0.67	dB	0.045
PE3C3571/PH180-9	9 inch	Insertion Loss (Typ.)	0.46	0.49	0.54	0.64	0.81	dB	0.052
PE3C3571/PH180-12	12 inch	Insertion Loss (Typ.)	0.48	0.52	0.58	0.72	0.94	dB	0.059
PE3C3571/PH180-18	18 inch	Insertion Loss (Typ.)	0.52	0.58	0.67	0.88	1.21	dB	0.074
PE3C3571/PH180-24	24 inch	Insertion Loss (Typ.)	0.56	0.64	0.76	1.04	1.48	dB	0.089

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:	0.059 pounds
Additional Weight per Inch:	0.00242 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 0.059 lbs [26.76 g]

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Cable

Cable Type	PE-SR402FLJ
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	FEP, Black
Jacket Diameter	0.161 in [4.09 mm]
One Time Minimum Bend Radius	0.315 in [8 mm]
Repeated Minimum Bend Radius	1.575 in [40.01 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle Threaded	SMA Male Right Angle Threaded
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Specification	30 µin minimum	30 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs [0.34 Nm]	3 in-lbs [0.34 Nm]

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3C3571/PH180

How to Order

Part Number Configuration:

PE3C3571/PH180

- xx

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

Example: PE3C3571/PH180-12 = 12 inches long cable
PE3C3571/PH180-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR402FLJ 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 SMA Male Right Angle Cable Using PE-SR402FLJ Coax with 180 Deg. Clock PE3C3571/PH180](https://www.pasternack.com/sma-male-sma-male-pe-sr402flj-cable-assembly-pe3c3571-ph180-p.aspx)

URL: <https://www.pasternack.com/sma-male-sma-male-pe-sr402flj-cable-assembly-pe3c3571-ph180-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.

PE3C3571/PH180 CAD Drawing

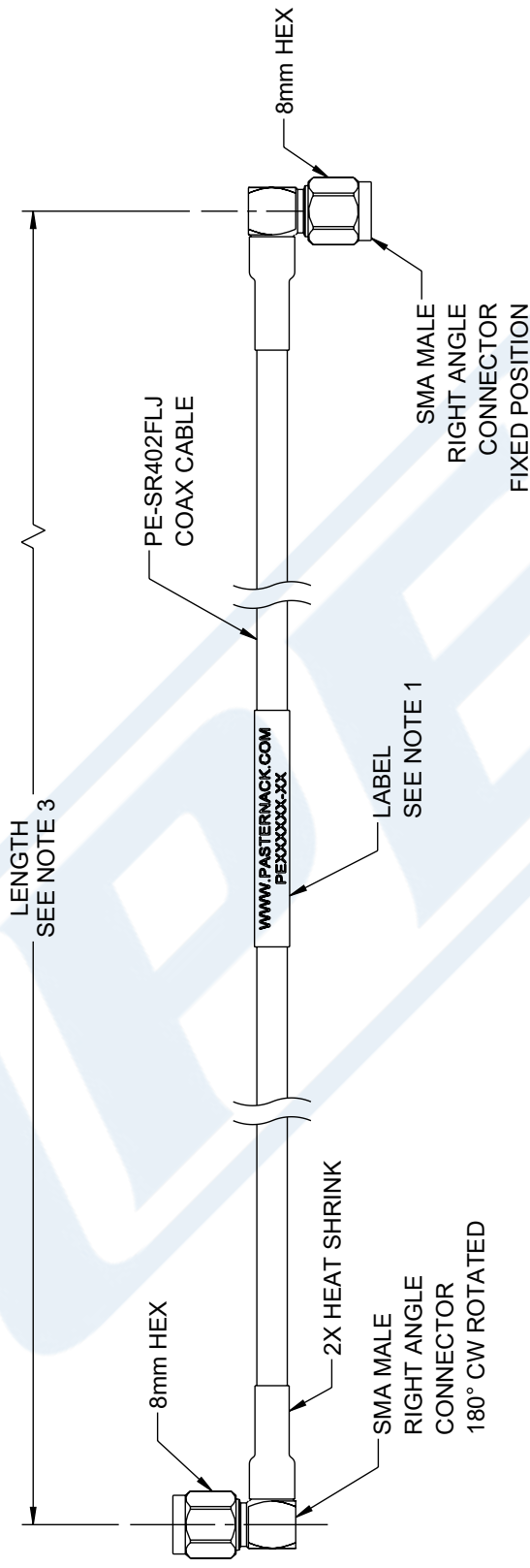
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F E D C B A

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REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	10/17/2023
			CHANGED BY
			HBAKKE
			APPROVED
			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]	± 1/64
XXX = ±.005 [0.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

>12 [305] ≤ 30 [762]	± 1/32 [0.762]
>30 [762] ≤ 60 [1524]	± 1/16 [1.27]
>60 [1524] ≤ 120 [3048]	± 1/8 [3.175]
>120 [3048] ≤ 300 [7620]	± 1/4 [6.35]
>300 [7620]	± 1/2 [12.7]

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-SR402FLJ COAX WITH 180 DEG. CLOCK

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	PE3C3571/PH180

REV A

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