



SMA Male Right Angle to N Female Bulkhead Semi-Flexible Cable Using PE-SR402FLJ Coax with 90 Deg. Clock, LF Solder

RF Cable Assemblies Technical Data Sheet

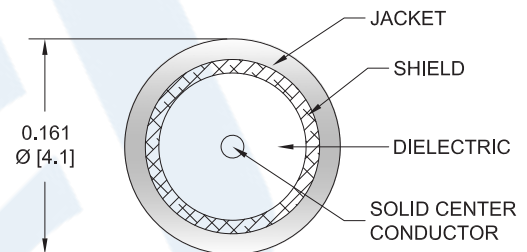
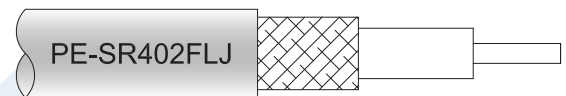
PE39470/PH90

Configuration

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

Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket
- Dimensionally and electrically the same as standard, solid outer conductor semi-rigid coax
- Cable may be formed by hand and does not require special tools to bend
- May be formed more than once without damaging the outer conductor
- 100% Hi-pot and continuity tested
- 100% VSWR tested to max frequency of assembly
- Standard and custom lengths ship the same day



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE39470/PH90 SMA male right angle to type N female bulkhead 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 type N cable assembly has a male to female gender configuration with 50 ohm formable PE-SR402FLJ coax. The PE39470/PH90 SMA male to type N female cable assembly operates to 10 GHz. The right angle SMA interface on the PE-SR402FLJ cable allows for easier connections in tight spaces. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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 N Female Bulkhead Semi-Flexible Cable Using PE-SR402FLJ Coax with 90 Deg. Clock, LF Solder PE39470/PH90](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.5:1	
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)			1,900	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Typ.)	0.082	0.125	0.198	0.32	0.481	dB/ft
	0.27	0.41	0.65	1.05	1.58	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.05xSQRT(fGHz) dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.123 lbs [55.79 g]

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]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle Threaded	N Female Bulkhead Threaded
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 in.	
Torque	8 in-lbs [0.9 Nm]	

Environmental Specifications

Temperature

Operating Range

-65 to +150 deg C

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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RF Cable Assemblies Technical Data Sheet

PE39470/PH90

How to Order

Part Number Configuration:

PE39470/PH90

- **xx**

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

Example: PE39470/PH90-12 = 12 inches long cable
 PE39470/PH90-100cm = 100 cm long cable

SMA Male Right Angle to N Female Bulkhead Semi-Flexible Cable Using PE-SR402FLJ Coax with 90 Deg. Clock, LF Solder 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.

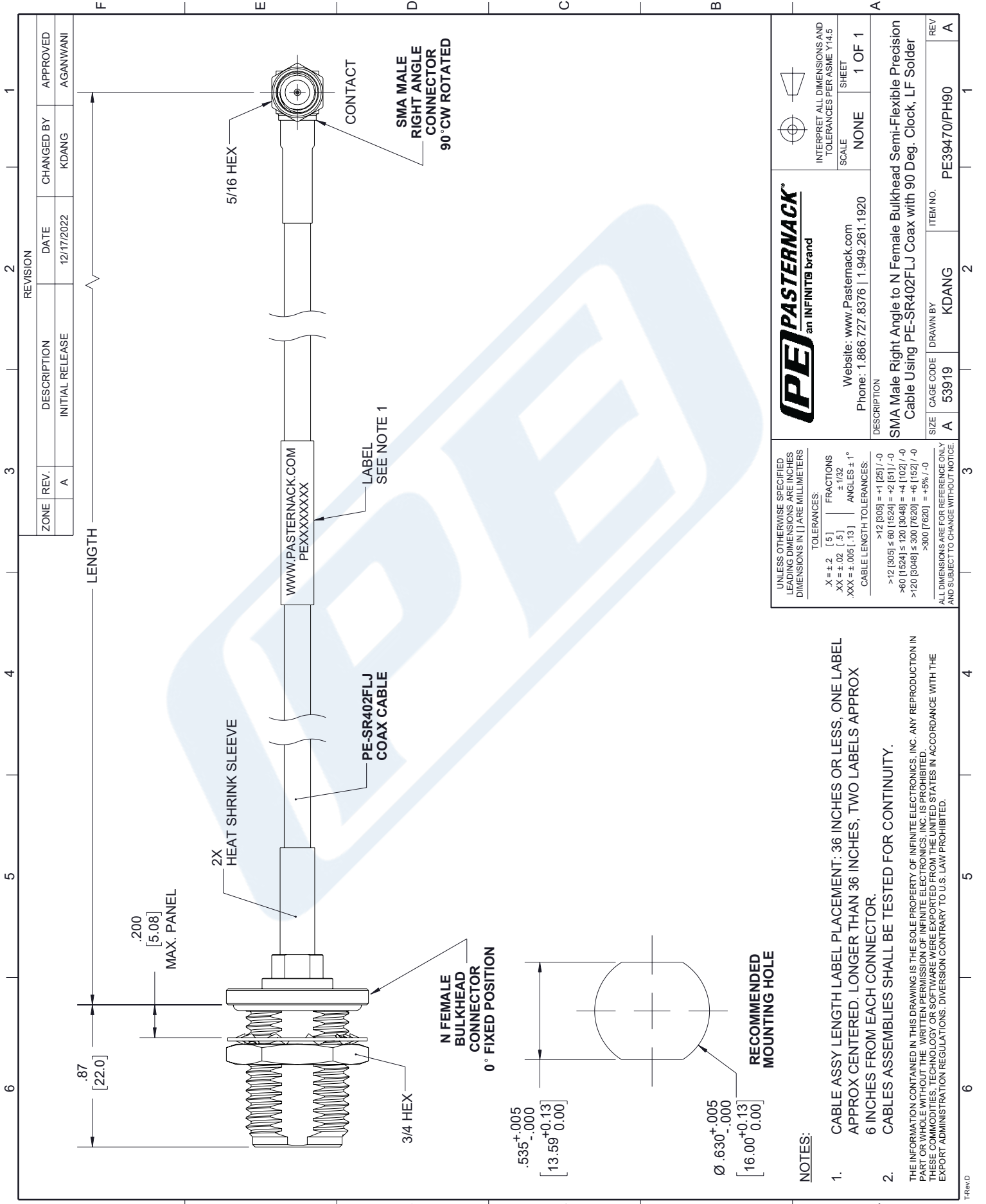
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URL: <https://www.pasternack.com/sma-male-right-angle-to-n-female-bulkhead-semi-flexible-cable-using-pe-sr402flj-with-90-deg.-clock-lf-solder-pe39470-ph90-p.aspx>

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.

PE39470/PH90 CAD Drawing

SMA Male Right Angle to N Female Bulkhead Semi-Flexible Cable
Using PE-SR402FLJ Coax with 90 Deg. Clock, LF Solder



PASTERNACK an INFINITO brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION: SMA Male Right Angle to N Female Bulkhead Semi-Flexible Precision Cable Using PE-SR402FLJ Coax with 90 Deg. Clock, LF Solder
SIZE: A	CAGE CODE: 53919	DRAWN BY: KDANG
ITEM NO.: PE39470/PH90		REV: A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: X = ±.2 [5] FRACTIONS .XX = ±.02 [.5] ±.1/32 .XXX = ±.005 [.13] ANGLES ± 1° CABLE LENGTH TOLERANCES: >12 [305] = ±.1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±.2 [51] / -0 >120 [3048] ≤ 300 [7620] = ±.4 [102] / -0 >300 [7620] = ±.5% / -0 ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	REVISIONS: ZONE REV. DESCRIPTION DATE CHANGED BY APPROVED A A INITIAL RELEASE 12/17/2022 KDANG AGANWANI
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- 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.
 - CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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