

SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR405FL Coax with 90 Deg. Clock



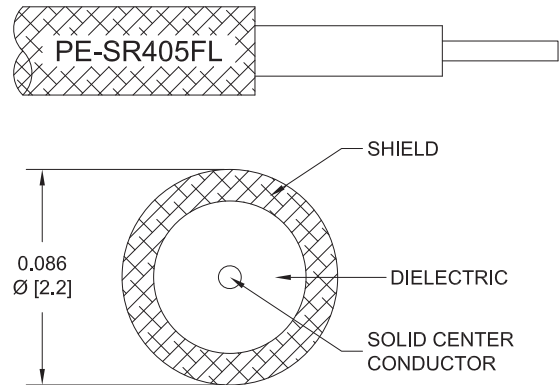
PE36839/PH90

Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

Features

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE36839/PH90 SMP female right angle to SMP female right angle cable using PE-SR405FL 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 SMP to SMP cable assembly has a female to female gender configuration with 50 ohm formable PE-SR405FL coax. The PE36839/PH90 SMP female to SMP female cable assembly operates to 12.4 GHz. The right angle SMP interfaces on the PE-SR405FL 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	12400	MHz	
PE36839/PH90	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.22	0.34	0.54	0.9	dB/ft	
			0.5	0.73	1.12	1.78	2.96	dB/m	
PE36839/PH90-6	6 inch	Insertion Loss (Typ.)	0.22	0.31	0.49	0.72	1.16	dB	0.01
PE36839/PH90-9	9 inch	Insertion Loss (Typ.)	0.26	0.37	0.58	0.86	1.38	dB	0.013
PE36839/PH90-12	12 inch	Insertion Loss (Typ.)	0.3	0.42	0.66	0.99	1.61	dB	0.015
PE36839/PH90-24	24 inch	Insertion Loss (Typ.)	0.45	0.64	1	1.53	2.51	dB	0.027
PE36839/PH90-36	36 inch	Insertion Loss (Typ.)	0.6	0.86	1.34	2.07	3.41	dB	0.038

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: 0.1 x sqrt(fGHz) dB
 Loss due to Connector 2: 0.1 x sqrt(fGHz) dB
 Base Weight: 0.015 pounds
 Additional Weight per Inch: 0.00092 pounds

Mechanical Specifications

Cable Assembly

Weight 0.015 lbs [6.8 g]

Cable

Cable Type PE-SR405FL
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Outer Conductor 1 Material and Plating Copper, Tin
 Repeated Minimum Bend Radius 0.78 in [19.81 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMP Female Right Angle	SMP Female Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold

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Environmental Specifications

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

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration: **PE36839/PH90 - xx uu**

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

Example: PE36839/PH90-12 = 12 inches long cable
PE36839/PH90-100cm = 100 cm long cable

SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR405FL 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: [SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR405FL Coax with 90 Deg. Clock PE36839/PH90](#)

URL: <https://www.pasternack.com/smp-female-right-angle-to-smp-female-cable-using-pe-sr405fl-with-90-deg.-clock-pe36839-ph90-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE36839/PH90 CAD Drawing

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