

SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR405FL Coax with 90 Deg. Clock



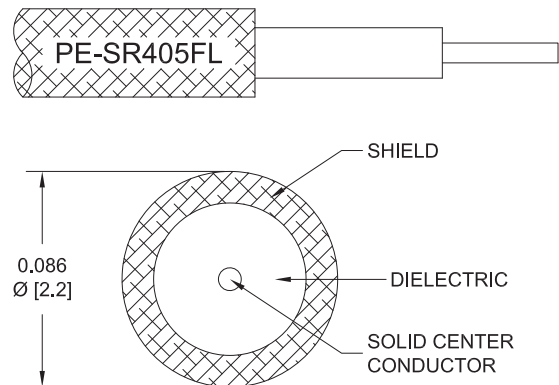
PE39416/PH90

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

Features

- Max Frequency 10 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE39416/PH90 SMA male right angle to SMA male 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FL coax. The PE39416/PH90 SMA male to SMA male cable assembly operates to 10 GHz. The right angle SMA 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		10	GHz
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

SMA Male Right Angle to SMA Male Right Angle Cable
Using PE-SR405FL Coax with 90 Deg. Clock



PE39416/PH90

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		500	1000	2500	5000	
PE39416/PH90	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.225	0.347	0.549	0.812	dB/ft	
			0.5	0.74	1.14	1.81	2.67	dB/m	
PE39416/PH90-6	6 In	Insertion Loss (Typ.)	0.48	0.52	0.58	0.68	0.81	dB	0.024
PE39416/PH90-9	9 In	Insertion Loss (Typ.)	0.52	0.57	0.67	0.82	1.01	dB	0.027
PE39416/PH90-12	12 In	Insertion Loss (Typ.)	0.55	0.63	0.75	0.95	1.22	dB	0.029
PE39416/PH90-24	24 In	Insertion Loss (Typ.)	0.7	0.85	1.1	1.5	2.03	dB	0.041
PE39416/PH90-36	36 In	Insertion Loss (Typ.)	0.85	1.08	1.45	2.05	2.84	dB	0.052

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: 0.029 pounds
 Additional Weight per Inch: 0.00092 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight lbs [0 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]

SMA Male Right Angle to SMA Male Right Angle Cable
Using PE-SR405FL Coax with 90 Deg. Clock



PE39416/PH90

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Contact Plating Specification	8 µin minimum	8 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Body Plating Specification	4 µin minimum	4 µin 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

Environmental Specifications

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

Plotted and Other Data

Notes:

PE39416/PH90 CAD Drawing

SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR405FL Coax with 90 Deg. Clock

