

SMA Male Right Angle to MMCX Plug Right Angle Cable Using PE-SR405FL Coax with 270 Deg. Clock



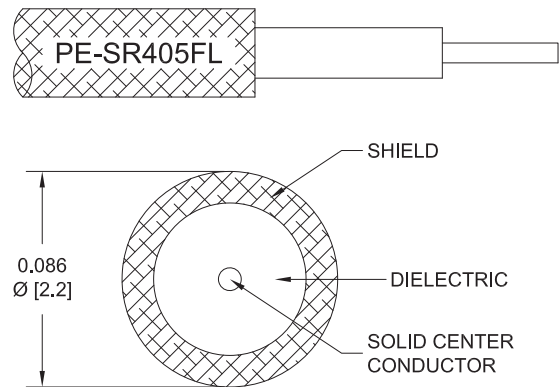
PE3C4196/PH270

Configuration

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

Features

- Max Frequency 6 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C4196/PH270 SMA male right angle to MMCX plug 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 MMCX cable assembly has a male to plug gender configuration with 50 ohm formable PE-SR405FL coax. The PE3C4196/PH270 SMA male to MMCX plug cable assembly operates to 6 GHz. The right angle SMA and right angle MMCX 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		6	
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	Units	Weight (lbs)
		Frequency	500	1000	2500	6000	MHz	
PE3C4196/PH270	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.22	0.34	0.6	dB/ft	
			0.5	0.73	1.12	1.97	dB/m	
PE3C4196/PH270-6	6 inch	Insertion Loss (Typ.)	0.48	0.51	0.57	0.7	dB	0.025
PE3C4196/PH270-9	9 inch	Insertion Loss (Typ.)	0.52	0.57	0.66	0.85	dB	0.028
PE3C4196/PH270-12	12 inch	Insertion Loss (Typ.)	0.55	0.62	0.74	1	dB	0.03
PE3C4196/PH270-24	24 inch	Insertion Loss (Typ.)	0.7	0.84	1.08	1.6	dB	0.042
PE3C4196/PH270-36	36 inch	Insertion Loss (Typ.)	0.85	1.06	1.42	2.2	dB	0.053

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:	0.03 pounds
Additional Weight per Inch:	0.00092 pounds

Mechanical Specifications

Cable Assembly

Weight 0.03 lbs [13.61 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]

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Connectors

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

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3C4196/PH270

Typical Performance Data

How to Order

Part Number Configuration: **PE3C4196/PH270** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3C4196/PH270-12 = 12 inches long cable
PE3C4196/PH270-100cm = 100 cm long cable

SMA Male Right Angle to MMCX Plug Right Angle Cable Using PE-SR405FL Coax with 270 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 MMCX Plug Right Angle Cable Using PE-SR405FL Coax with 270 Deg. Clock PE3C4196/PH270](https://www.pasternack.com/sma-male-right-angle-to-mmcx-plug-right-angle-cable-using-pe-sr405fl-coax-with-270-deg.-clock-pe3c4196-ph270-p.aspx)

URL: <https://www.pasternack.com/sma-male-right-angle-to-mmcx-plug-right-angle-cable-using-pe-sr405fl-with-270-deg.-clock-pe3c4196-ph270-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.

PE3C4196/PH270 CAD Drawing

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