

2.92mm Male to SMA Male Cable Using PE-SR405AL Coax



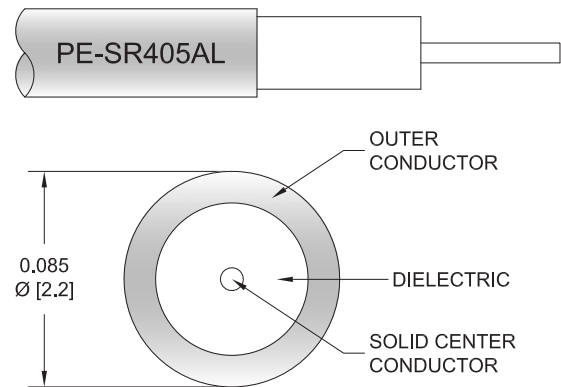
PE3C7401

Configuration

- Connector 1: 2.92mm Male
- Connector 2: SMA Male
- Cable Type: PE-SR405AL
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C7401 2.92mm male to SMA male cable using PE-SR405AL coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack 2.92mm to SMA cable assembly has a male to male gender configuration with 50 ohm semi-rigid PE-SR405AL coax. The PE3C7401 2.92mm male to SMA male cable assembly operates to 18 GHz.

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		18	
VSWR			1.4:1	

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C7401	Custom Lengths Available	Insertion Loss (Typ.)	0.23	0.27	0.44	0.74	1.21	dB/ft	
			0.76	0.89	1.45	2.43	3.97	dB/m	
PE3C7401-6	6 inch	Insertion Loss (Typ.)	0.26	0.3	0.41	0.59	0.88	dB	0.027
PE3C7401-12	12 inch	Insertion Loss (Typ.)	0.37	0.43	0.63	0.96	1.48	dB	0.034
PE3C7401-18	18 inch	Insertion Loss (Typ.)	0.49	0.57	0.85	1.33	2.09	dB	0.042
PE3C7401-24	24 inch	Insertion Loss (Typ.)	0.6	0.7	1.07	1.7	2.69	dB	0.049
PE3C7401-36	36 inch	Insertion Loss (Typ.)	0.83	0.97	1.51	2.44	3.9	dB	0.063

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: 0.04 x sqrt(fGHz) dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.034 pounds

Additional Weight per Inch: 0.00117 pounds

Mechanical Specifications

Cable Assembly

Weight 0.034 lbs [15.42 g]

Cable

Cable Type	PE-SR405AL
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	Tinned Aluminum
One Time Minimum Bend Radius	0.05 in [1.27 mm]

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Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PEI	PTFE
Body Material and Plating	Beryllium Copper, Gold over Nickel	Stainless Steel, Gold
Body Plating Specification	50 µin minimum	10 µin minimum
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Nickel
Coupling Nut Plating Specification	ASTM-A582	100 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs 0.9 Nm	3 in-lbs 0.34 Nm

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3C7401

Typical Performance Data

How to Order

Part Number Configuration:

PE3C7401

- xx

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

Length
Base Number

Example: PE3C7401-12 = 12 inches long cable
PE3C7401-100cm = 100 cm long cable

2.92mm Male to SMA Male Cable Using PE-SR405AL Coax 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: [2.92mm Male to SMA Male Cable Using PE-SR405AL Coax PE3C7401](https://www.pasternack.com/2.92mm-male-to-sma-male-cable-using-pe-sr405al-pe3c7401-p.aspx)

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PE3C7401 CAD Drawing

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