



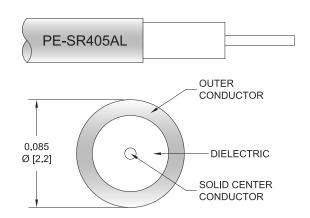
## PE3C5942

### Configuration

Connector 1: 2.4mm Male
Connector 2: 2.92mm Male
Cable Type: PE-SR405AL
Coax Flex Type: Semi-Rigid

#### **Features**

- Max Frequency 40 GHz
- · 500 Mating Cycles



## **Applications**

· General Purpose

· Laboratory Use

## **Description**

Pasternack's PE3C5942 2.4mm male to 2.92mm 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 2.4mm to 2.92mm cable assembly has a male to male gender configuration with 50 ohm semi-rigid PE-SR405AL coax. The PE3C5942 2.4mm male to 2.92mm male cable assembly operates to 40 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		40	
VSWR			1.4:1	
Dielectric Withstanding Voltage (AC)			500	Vrms

#### Specifications by Frequency





# PE3C5942

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	MHz	
PE3C5942	Custom Lengths	Insertion Loss (Typ.)	0.32	0.48	0.81	1.31	dB/ft	
	Available		1.05	1.58	2.66	4.3	dB/m	
PE3C5942-6	6 inch	Insertion Loss (Typ.)	0.29	0.42	0.66	1.02	dB	0.028
PE3C5942-12	12 inch	Insertion Loss (Typ.)	0.45	0.66	1.07	1.67	dB	0.035
PE3C5942-18	18 inch	Insertion Loss (Typ.)	0.61	0.9	1.47	2.33	dB	0.043
PE3C5942-24	24 inch	Insertion Loss (Typ.)	0.77	1.14	1.88	2.98	dB	0.05
PE3C5942-36	36 inch	Insertion Loss (Typ.)	1.09	1.62	2.69	4.29	dB	0.064

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: 0.04 x sqrt(fGHz) dB
Base Weight: 0.035 pounds
Additional Weight per Inch: 0.00117 pounds

## **Mechanical Specifications**

## **Cable Assembly**

Weight 0.035 lbs [15.88 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

Repeated Minimum Bend Radius

Tinned Aluminum
0.05 in [1.27 mm]





# PE3C5942

### **Connectors**

Description	Connector 1	Connector 2		
Туре	2.4mm Male	2.92mm Male		
Impedance	50 Ohms	50 Ohms		
Configuration	Straight	Straight		
Mating Cycles	500	500		
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel		
Contact Plating Specification	50 μin minimum	50 μin minimum		
Dielectric Type	PEI	PCTFE		
Body Material and Plating	Beryllium Copper, Gold over Nickel	Passivated Stainless Steel		
Body Plating Specification	50 μin minimum	SAE-AMS-2700		
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Coupling Nut Plating Specification	ASTM-A582	SAE-AMS-2700		
Hex Size	5/16 inch	5/16 inch		
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm		

# **Environmental Specifications**

Operating Range Temperature

-55 to +125 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:





# PE3C5942

# **Typical Performance Data**

#### **How to Order**

Example: PE3C5942-12 = 12 inches long cable

PE3C5942-100cm = 100 cm long cable

2.4mm Male to 2.92mm 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: 2.4mm Male to 2.92mm Male Cable Using PE-SR405AL Coax PE3C5942

URL: https://www.pasternack.com/2.4mm-male-to-2.92mm-male-cable-using-pe-sr405al-pe3c5942-p.aspx

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