

2.92mm Male to Mini SMP Female Cable Using PE-SR405AL Coax



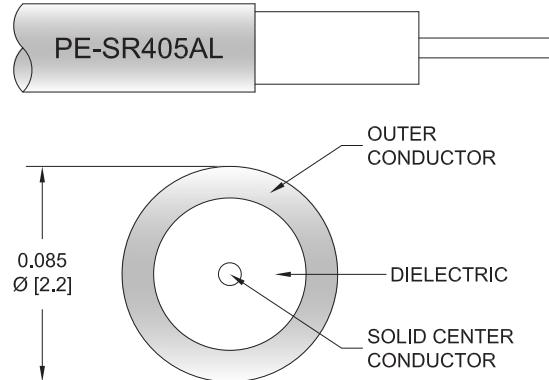
PE3C6650

Configuration

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

Features

- Max Frequency 40 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6650 2.92mm male to Mini SMP female 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 Mini SMP cable assembly has a male to female gender configuration with 50 ohm semi-rigid PE-SR405AL coax. The PE3C6650 2.92mm male to Mini SMP female 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	

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units MHz	Weight (lbs)
		Frequency	2500	5000	10000	20000		
PE3C6650	Custom Lengths Available	Insertion Loss (Typ.)	0.32	0.48	0.81	1.31	dB/ft	
			1.05	1.58	2.66	4.3	dB/m	
PE3C6650-6	6 inch	Insertion Loss (Typ.)	0.31	0.45	0.69	1.06	dB	0.018
PE3C6650-12	12 inch	Insertion Loss (Typ.)	0.47	0.69	1.1	1.72	dB	0.025
PE3C6650-18	18 inch	Insertion Loss (Typ.)	0.63	0.93	1.5	2.37	dB	0.033
PE3C6650-24	24 inch	Insertion Loss (Typ.)	0.79	1.17	1.91	3.03	dB	0.04
PE3C6650-36	36 inch	Insertion Loss (Typ.)	1.11	1.65	2.72	4.34	dB	0.054

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: $0.04 \times \sqrt{f\text{GHz}}$ dB

Loss due to Connector 2: $0.05 \times \sqrt{f\text{GHz}}$ dB

Base Weight: 0.025 pounds

Additional Weight per Inch: 0.00117 pounds

Mechanical Specifications

Cable Assembly

Weight 0.025 lbs [11.34 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	Mini SMP Female
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	50 μ in minimum	
Dielectric Type	PEI	PTFE
Body Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Body Plating Specification	50 μ in minimum	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	ASTM-A582	
Hex Size	5/16 inch	
Torque	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:

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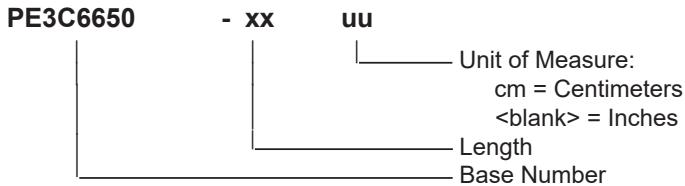


PE3C6650

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C6650-12 = 12 inches long cable
PE3C6650-100cm = 100 cm long cable

2.92mm Male to Mini SMP Female 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 Mini SMP Female Cable Using PE-SR405AL Coax PE3C6650](#)

URL: <https://www.pasternack.com/2.92mm-male-to-mini-smp-female-cable-using-pe-sr405al-pe3c6650-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.

PE3C6650 CAD Drawing

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