

Mini SMP Female to Mini SMP Female Cable Using PE-SR405AL Coax



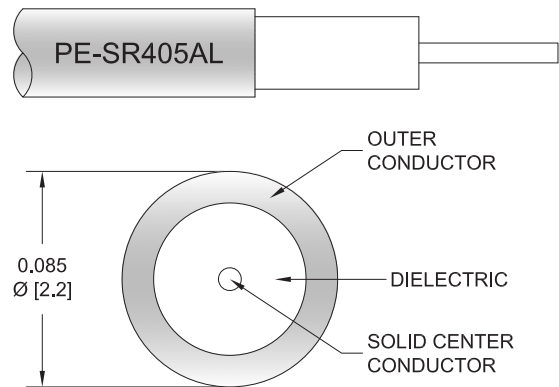
PE3W01970

Configuration

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

Features

- Max Frequency 20 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W01970 Mini SMP female 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 Mini SMP to Mini SMP cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-SR405AL coax. The PE3W01970 Mini SMP female to Mini SMP female cable assembly operates to 20 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		20	GHz
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	20000	MHz	
PE3W01970	Custom Lengths Available	Insertion Loss (Typ.)	0.23	0.29	0.45	0.74	1.31	dB/ft	
			0.76	0.96	1.48	2.43	4.3	dB/m	
PE3W01970-6	6 inch	Insertion Loss (Typ.)	0.32	0.35	0.43	0.57	0.86	dB	0.017
PE3W01970-12	12 inch	Insertion Loss (Typ.)	0.43	0.49	0.65	0.94	1.51	dB	0.024
PE3W01970-18	18 inch	Insertion Loss (Typ.)	0.55	0.64	0.88	1.31	2.17	dB	0.032
PE3W01970-24	24 inch	Insertion Loss (Typ.)	0.66	0.78	1.1	1.68	2.82	dB	0.039
PE3W01970-36	36 inch	Insertion Loss (Typ.)	0.89	1.07	1.55	2.42	4.13	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:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.024 pounds
Additional Weight per Inch:	0.00117 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.024 lbs [10.89 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
Shield Layer 1	Tinned Aluminum

Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Female	Mini SMP Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Plating Specification	MIL-G-45204	MIL-G-45204

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Environmental Specifications

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

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

PE3W01970 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W01970-12 = 12 inches long cable
PE3W01970-100cm = 100 cm long cable

Mini SMP Female 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: [Mini SMP Female to Mini SMP Female Cable Using PE-SR405AL Coax PE3W01970](#)

URL: <https://www.pasternack.com/mini-smp-female-to-mini-smp-female-cable-using-pe-sr405al-pe3w01970-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.

PE3W01970 CAD Drawing
Mini SMP Female to Mini SMP Female Cable Using PE-SR405AL Coax

