

SMP Female to SMA Female Cable Using PE-047SR Coax



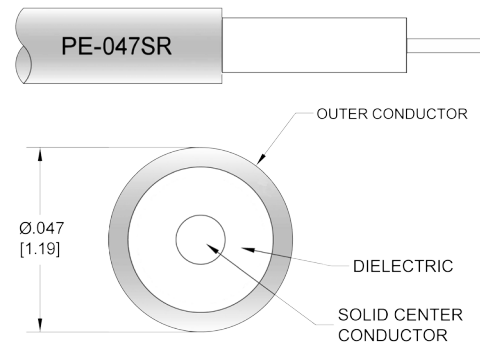
PE3W04645

Configuration

- Connector 1: SMP Female
- Connector 2: SMA Female
- Cable Type: PE-047SR
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04645 SMP female to SMA female cable using PE-047SR 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 SMP to SMA cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3W04645 SMP female to SMA female 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	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	18000	MHz	
PE3W04645	Custom Lengths Available	Insertion Loss (Typ.)	0.4	0.5	0.75	1.2	1.78	dB/ft	
			1.32	1.65	2.47	3.94	5.84	dB/m	
PE3W04645-3	3 inch	Insertion Loss (Typ.)	0.51	0.54	0.6	0.71	0.86	dB	0.009
PE3W04645-6	6 inch	Insertion Loss (Typ.)	0.61	0.66	0.79	1.01	1.3	dB	0.01
PE3W04645-12	12 inch	Insertion Loss (Typ.)	0.81	0.91	1.16	1.61	2.19	dB	0.012
PE3W04645-18	18 inch	Insertion Loss (Typ.)	1.01	1.16	1.54	2.21	3.08	dB	0.015
PE3W04645-60	60 inch	Insertion Loss (Typ.)	2.41	2.91	4.16	6.41	9.31	dB	0.029

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:	0.31 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.012 pounds
Additional Weight per Inch:	0.00034 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.012 lbs [5.44 g]

Cable

Cable Type	PE-047SR
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
Repeated Minimum Bend Radius	0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMP Female	SMA Female
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-DTL-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold
Body Plating Specification	MIL-DTL-45204	MIL-G-45204

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Environmental Specifications

Operating Range Temperature -55 to +100 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

PE3W04645

- xx

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

Example: PE3W04645-12 = 12 inches long cable
PE3W04645-100cm = 100 cm long cable

SMP Female to SMA Female Cable Using PE-047SR 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: [SMP Female to SMA Female Cable Using PE-047SR Coax PE3W04645](#)

URL: <https://www.pasternack.com/smp-female-to-sma-female-cable-using-pe-047sr-pe3w04645-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.

PE3W04645 CAD Drawing

SMP Female to SMA Female Cable Using PE-047SR Coax

