

1.85mm Male to SMP Female Cable Using PE-047SR Coax



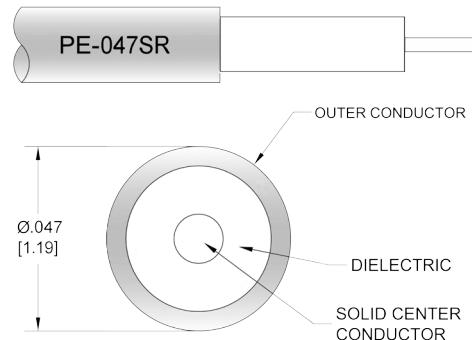
PE3W12812

Configuration

- Connector 1: 1.85mm Male
- Connector 2: SMP Female
- Cable Type: PE-047SR
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 40 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12812 1.85mm male to SMP 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 1.85mm to SMP cable assembly has a male to female gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3W12812 1.85mm male to 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	GHz
VSWR			1.4:1	

Specifications by Frequency

1.85mm Male to SMP Female Cable Using PE-047SR Coax



PE3W12812

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	20000	MHz	
PE3W12812	Custom Lengths Available	Insertion Loss (Typ.)	0.4	0.5	0.75	1.2	1.9	dB/ft	
			1.32	1.65	2.47	3.94	6.24	dB/m	
PE3W12812-3	3 inch	Insertion Loss (Typ.)	0.51	0.54	0.6	0.71	0.89	dB	0.01
PE3W12812-6	6 inch	Insertion Loss (Typ.)	0.61	0.66	0.79	1.01	1.36	dB	0.011
PE3W12812-12	12 inch	Insertion Loss (Typ.)	0.81	0.91	1.16	1.61	2.31	dB	0.013
PE3W12812-18	18 inch	Insertion Loss (Typ.)	1.01	1.16	1.54	2.21	3.26	dB	0.016
PE3W12812-60	60 inch	Insertion Loss (Typ.)	2.41	2.91	4.16	6.41	9.91	dB	0.03

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: 0.31 dB
Base Weight: 0.013 pounds
Additional Weight per Inch: 0.00034 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.013 lbs [5.9 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]

1.85mm Male to SMP Female Cable Using PE-047SR Coax



PE3W12812

Connectors

Description	Connector 1	Connector 2
Type	1.85mm Male	SMP Female
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μ Inches.	MIL-DTL-45204
Dielectric Type	PEI	PTFE
Body Material and Plating	Passivated Stainless Steel	Beryllium Copper, Gold
Body Plating Specification	SAE-AMS-2700	MIL-DTL-45204
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 Inch	
Torque	8 in-lbs 0.9 Nm	

Environmental Specifications

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

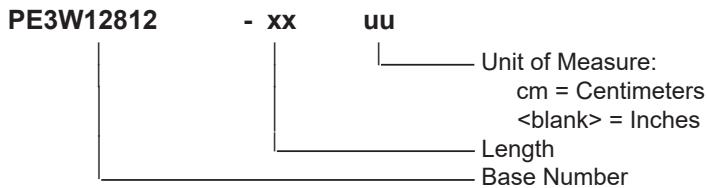
Plotted and Other Data

Notes:

1.85mm Male to SMP Female Cable Using PE-047SR Coax

**PE3W12812****Typical Performance Data****How to Order**

Part Number Configuration:



Example: PE3W12812-12 = 12 inches long cable
PE3W12812-100cm = 100 cm long cable

1.85mm Male to SMP 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: [1.85mm Male to SMP Female Cable Using PE-047SR Coax PE3W12812](#)

URL: <https://www.pasternack.com/1.85mm-male-to-smp-female-cable-using-pe-047sr-pe3w12812-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.

PE3W12812 CAD Drawing

1.85mm Male to SMP Female Cable Using PE-047SR Coax

