

SMA Male to SMA Male Cable Using PE-P086HF Coax, 18 GHz



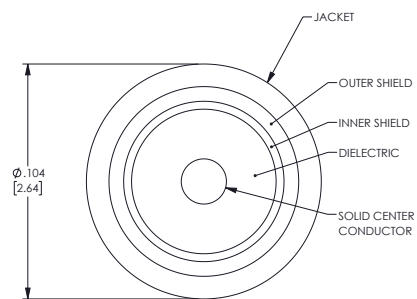
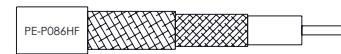
PE3W21044

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-P086HF
- Coax Flex Type: Flexible

Features

- Max Frequency 18 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W21044 SMA male to SMA male cable using PE-P086HF coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible PE-P086HF coax. The PE3W21044 SMA male to SMA male cable assembly operates to 18 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W21044	Custom Lengths Available	Insertion Loss (Typ.)	0.192	0.277	0.429	0.631	0.951	dB/ft	
			0.63	0.91	1.41	2.08	3.13	dB/m	
PE3W21044-6	6 In	Insertion Loss (Typ.)	0.3	0.34	0.42	0.52	0.68	dB	0.016
PE3W21044-12	12 In	Insertion Loss (Typ.)	0.4	0.48	0.63	0.84	1.16	dB	0.023
PE3W21044-24	24 In	Insertion Loss (Typ.)	0.59	0.76	1.06	1.47	2.11	dB	0.036
PE3W21044-36	36 In	Insertion Loss (Typ.)	0.78	1.04	1.49	2.1	3.06	dB	0.049
PE3W21044-48	48 In	Insertion Loss (Typ.)	0.97	1.31	1.92	2.73	4.01	dB	0.062

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: 0.023 pounds
 Additional Weight per Inch: 0.00108 pounds

Mechanical Specifications

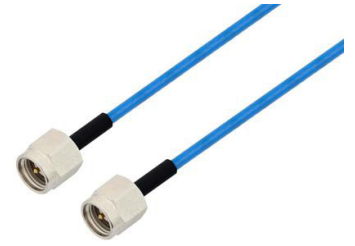
Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.023 lbs [10.43 g]

Cable

Cable Type PE-P086HF
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Tape
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material FEP, Blue
 Jacket Diameter 0.104 in [2.64 mm]
 One Time Minimum Bend Radius 0.52 in [13.21 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Passivated Stainless Steel, Gold	Passivated Stainless Steel, Gold
Body Plating Specification	3 µin minimum	3 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs 0.34 Nm	3 in-lbs 0.34 Nm

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

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PE3W21044

Typical Performance Data

How to Order

Part Number Configuration:

PE3W21044

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W21044-12 = 12 inches long cable
PE3W21044-100cm = 100 cm long cable

SMA Male to SMA Male Cable Using PE-P086HF Coax, 18 GHz 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: [SMA Male to SMA Male Cable Using PE-P086HF Coax, 18 GHz PE3W21044](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-p086hf-pe3w21044-p.aspx>

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PE3W21044 CAD Drawing

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