

Mini SMP Female Right Angle to SMA Female Bulkhead Cable Using PE-P086HF Coax with HeatShrink



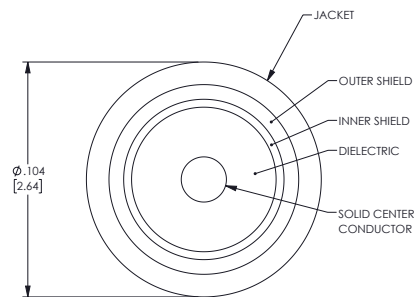
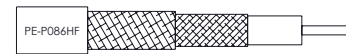
PE3W21220/HS

Configuration

- Connector 1: Mini SMP Female Right Angle
- Connector 2: SMA Female Bulkhead
- Cable Type: PE-P086HF
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W21220/HS Mini SMP female right angle to SMA female bulkhead 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 Mini SMP to SMA cable assembly has a female to female gender configuration with 50 ohm flexible PE-P086HF coax. The PE3W21220/HS Mini SMP female to SMA female cable assembly operates to 18 GHz. The right angle Mini SMP interface on the PE-P086HF cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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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PE3W21220/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W21220/HS	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	
PE3W21220/HS-6	6 In	Insertion Loss (Typ.)	0.7	0.76	0.88	1.02	1.24	dB	0.022
PE3W21220/HS-12	12 In	Insertion Loss (Typ.)	0.8	0.9	1.09	1.34	1.72	dB	0.028
PE3W21220/HS-24	24 In	Insertion Loss (Typ.)	0.99	1.18	1.52	1.97	2.67	dB	0.041
PE3W21220/HS-36	36 In	Insertion Loss (Typ.)	1.18	1.46	1.95	2.6	3.62	dB	0.054
PE3W21220/HS-48	48 In	Insertion Loss (Typ.)	1.37	1.73	2.38	3.23	4.57	dB	0.067

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: 0.05*SQRT(FGHz) dB
 Loss due to Connector 2: 0.55 dB
 Base Weight: 0.028 pounds
 Additional Weight per Inch: 0.00108 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.037 lbs [16.78 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	Mini SMP Female Right Angle	SMA Female Bulkhead
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Brass, Gold	Brass, Gold over Nickel

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W21220/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W21220/HS - xx uu



Example: PE3W21220/HS-12 = 12 inches long cable
PE3W21220/HS-100cm = 100 cm long cable

Mini SMP Female Right Angle to SMA Female Bulkhead Cable Using PE-P086HF Coax with HeatShrink 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 Right Angle to SMA Female Bulkhead Cable Using PE-P086HF Coax with HeatShrink PE3W21220/HS](https://www.pasternack.com/mini-smp-female-right-angle-to-sma-female-bulkhead-cable-using-pe-p086hf-coax-with-heatshrink-pe3w21220-hs)

URL: <https://www.pasternack.com/mini-smp-female-right-angle-to-sma-female-bulkhead-cable-using-pe-p086hf-with-heatshrink-pe3w21220-hs-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 impliment 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.

PE3W21220/HS CAD Drawing

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