

## Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using PE-P086 Coax



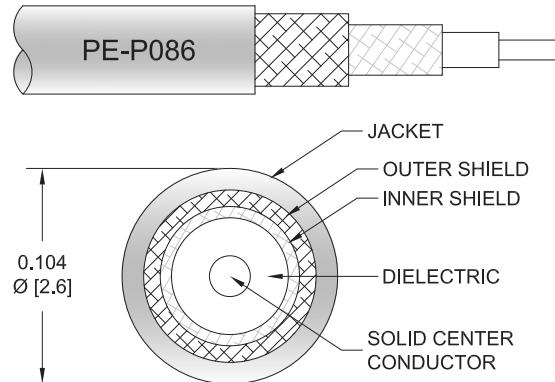
### PE3C8996

#### Configuration

- Connector 1: Limited Detent SMP Male Bulkhead
- Connector 2: SMP Female Right Angle
- Cable Type: PE-P086
- Coax Flex Type: Flexible

#### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C8996 SMP male limited detent bulkhead to SMP female right angle cable using PE-P086 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 SMP to SMP cable assembly has a male to female gender configuration with 50 ohm flexible PE-P086 coax. The PE3C8996 SMP male to SMP female cable assembly operates to 18 GHz. The right angle SMP interface on the PE-P086 cable allows for easier connections in tight spaces. Our RF cable assembly with SMP 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 of better than 110 dB.

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		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

#### Specifications by Frequency

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### PE3C8996

Part Number	Length	Description	F1	F2	F3	F4	F5	Units MHz	Weight (lbs)
			Frequency	1000	2000	4500	9000		
PE3C8996	Custom Lengths Available	Insertion Loss (Typ.)	0.211	0.305	0.47	0.695	1.046	dB/ft	
			0.7	1.01	1.55	2.29	3.44	dB/m	
PE3C8996-6	6 inch	Insertion Loss (Typ.)	0.41	0.46	0.54	0.65	0.83	dB	0.042
PE3C8996-12	12 inch	Insertion Loss (Typ.)	0.52	0.61	0.77	1	1.35	dB	0.048
PE3C8996-24	24 inch	Insertion Loss (Typ.)	0.73	0.91	1.24	1.69	2.4	dB	0.062
PE3C8996-36	36 inch	Insertion Loss (Typ.)	0.94	1.22	1.71	2.39	3.44	dB	0.075
PE3C8996-48	48 inch	Insertion Loss (Typ.)	1.15	1.52	2.18	3.08	4.49	dB	0.088

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: 0.2 dB

Base Weight: 0.048 pounds

Additional Weight per Inch: 0.00109 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
Weight 0.048 lbs [21.77 g]

#### Cable

Cable Type	PE-P086
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]
Repeated Minimum Bend Radius	0.5 in [12.7 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMP Male Bulkhead	SMP Female Right Angle
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Connection Method	Limited Detent	
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification		MIL-G-45204

#### Environmental Specifications

Operating Range Temperature -55 to +125 deg C

#### Compliance Certifications

(see product page for current document)

#### Plotted and Other Data

Notes:

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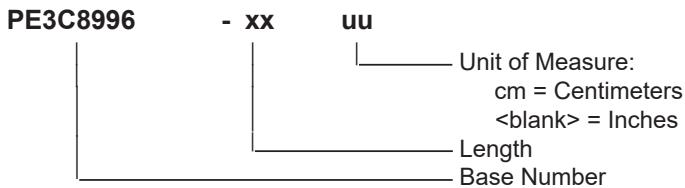


### PE3C8996

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3C8996-12 = 12 inches long cable  
PE3C8996-100cm = 100 cm long cable

Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using PE-P086 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: [Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using PE-P086 Coax PE3C8996](#)

URL: <https://www.pasternack.com/limited-detent-smp-male-bulkhead-to-smp-female-cable-using-pe-p086-pe3c8996-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.

# PE3C8996 CAD Drawing

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