



SMA Male to Mini SMP Female Right Angle Cable Using PE-P086 Coax

TECHNICAL DATA SHEET

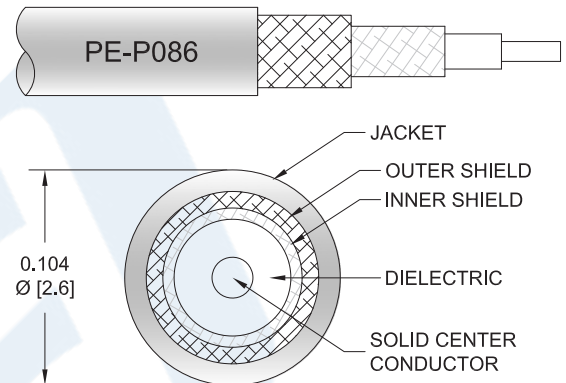
PE3C1843

Configuration

- Connector 1: SMA Male
- Connector 2: Mini 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 PE3C1843 SMA male to Mini 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 SMA to Mini SMP cable assembly has a male to female gender configuration with 50 ohm flexible PE-P086 coax. The PE3C1843 SMA male to Mini SMP female cable assembly operates to 18 GHz. The right angle Mini SMP interface on the PE-P086 cable allows for easier connections in tight spaces. 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.

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 Mini SMP Female Right Angle Cable Using PE-P086 Coax PE3C1843](#)



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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

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C1843	Custom Lengths Available	Insertion Loss (Typ.)	0.21	0.31	0.47	0.695	1.046	dB/ft	
			0.69	1.02	1.55	2.29	3.44	dB/m	
PE3C1843-6	6 inch	Insertion Loss (Typ.)	0.26	0.33	0.45	0.6	0.84	dB	0.022
PE3C1843-12	12 inch	Insertion Loss (Typ.)	0.36	0.49	0.68	0.95	1.36	dB	0.028
PE3C1843-24	24 inch	Insertion Loss (Typ.)	0.57	0.8	1.15	1.64	2.41	dB	0.042
PE3C1843-36	36 inch	Insertion Loss (Typ.)	0.78	1.11	1.62	2.34	3.46	dB	0.055
PE3C1843-48	48 inch	Insertion Loss (Typ.)	0.99	1.42	2.09	3.03	4.5	dB	0.068

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:	0.05*SQRT(FGHz) dB
Base Weight:	0.028 pounds
Additional Weight per Inch:	0.00109 pounds

Mechanical Specifications

Cable Assembly

Weight 0.028 lbs [12.7 g]

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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]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Threaded	Mini SMP Female Right Angle Push-On
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold over Nickel	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 in.	
Torque	8 in-lbs [0.9 Nm]	

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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PE3C1843

How to Order

Part Number Configuration:

PE3C1843

- **xx**

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

Example: PE3C1843-12 = 12 inches long cable
PE3C1843-100cm = 100 cm long cable

SMA Male to Mini 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: [SMA Male to Mini SMP Female Right Angle Cable Using PE-P086 Coax PE3C1843](#)

URL: <https://www.pasternack.com/sma-male-to-mini-smp-female-cable-using-pe-p086-pe3c1843-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

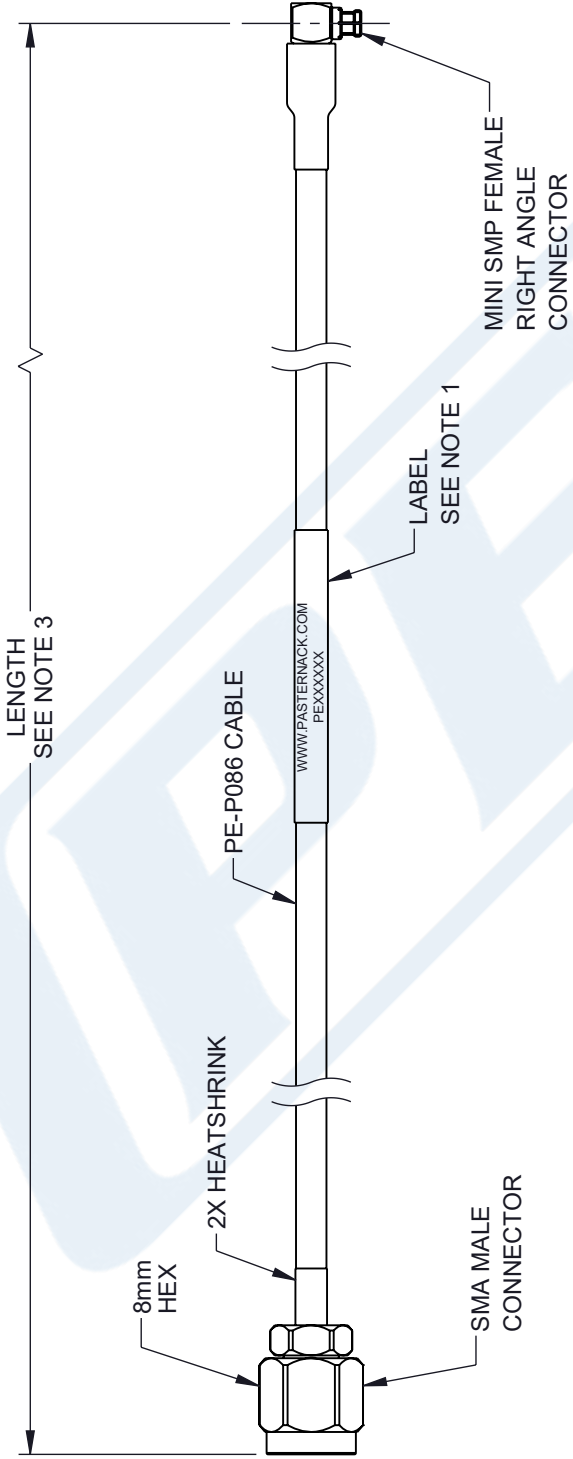
PE3C1843 CAD Drawing

SMA Male to Mini SMP Female Right Angle Cable Using PE-P086 Coax

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REVISION			
ZONE	REV.	DESCRIPTION	DATE
	A	INITIAL RELEASE	11/16/2023
			APPROVED BY
			BPUCHASKI
			AGANWANI



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS , ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION

SMA MALE TO MINI SMP FEMALE RIGHT ANGLE CABLE USING PE-P086 COAX

SIZE: A

CAGE CODE: 53919

DRAWN BY: BPUCHASKI

ITEM NO.: PE3C1843

REV: A

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PE3C1843 REV 1.0

PE DS Rev-D4 Asize 5