



## Mini SMP Female to SMA Female Cable Using PE-P086 Coax

### RF Cable Assemblies Technical Data Sheet

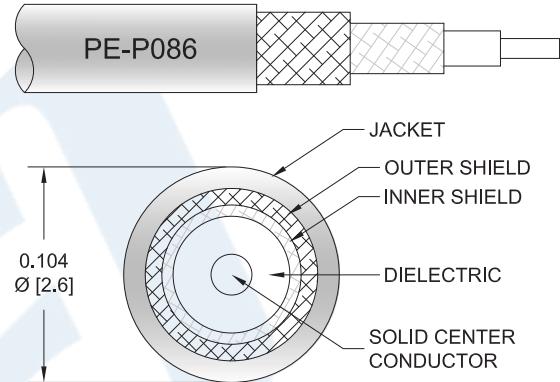
**PE3C6470**

#### Configuration

- Connector 1: Mini SMP Female
- Connector 2: SMA Female
- Cable Type: PE-P086

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C6470 Mini SMP female to SMA female 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 Mini SMP to SMA cable assembly has a female to female gender configuration with 50 ohm flexible PE-P086 coax. The PE3C6470 Mini SMP female to SMA female cable assembly operates to 18 GHz. 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: [Mini SMP Female to SMA Female Cable Using PE-P086 Coax PE3C6470](#)



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**PE3C6470**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.5:1	
Velocity of Propagation		70		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.211	0.305	0.47	0.695	1.046	dB/ft
	0.69	1	1.54	2.28	3.43	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight	0.021 lbs [9.53 g]
<b>Cable</b>	
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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## Mini SMP Female to SMA Female Cable Using PE-P086 Coax



### RF Cable Assemblies Technical Data Sheet

**PE3C6470**

#### Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Female	SMA Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold over Nickel

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +165 deg C

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

#### Plotted and Other Data

Notes:

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## Mini SMP Female to SMA Female Cable Using PE-P086 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C6470**

#### How to Order

Part Number Configuration:

**PE3C6470**

- **xx**

**uu**

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

Example: PE3C6470-12 = 12 inches long cable  
PE3C6470-100cm = 100 cm long cable

Mini SMP Female to SMA Female 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: [Mini SMP Female to SMA Female Cable Using PE-P086 Coax PE3C6470](#)

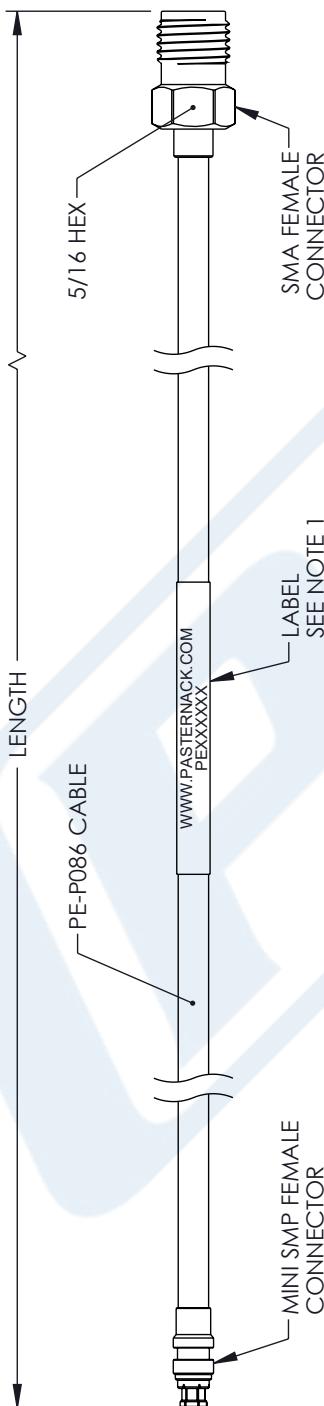
URL: <https://www.pasternack.com/mini-smp-female-to-sma-female-cable-using-pe-p086-pe3c6470-p.aspx>

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.

PE3C6470 CAD Drawing

Mini SMP Female to SMA Female Cable Using PE-P086 Coax

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U/I/20/2023  
DZINN  
AGANWANI



## NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:  
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED  
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 61  
FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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 <b>PASTERNACK®</b> an <b>INFINIT®</b> brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5			
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS				SCALE	REV A
TOLERANCES: X = $\pm 2$ [5] XX = $\pm 02$ [.5] XXX = $\pm 005$ [.13]		FRACTIONS $\pm 1/32$ $\pm 005$ [.13]		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET	
CABLE LENGTH TOLERANCES: >12 [305] = $\pm 1$ [25] / -0 >120 [3048] = $\pm 12$ [12] / -0 >60 [1524] = $\pm 6$ [6] / -0 >120 [3048] = $\pm 12$ [12] / -0 >300 [7620] = $\pm 30$ [30] / -0				1 OF 1	
DESCRIPTION		MINI SMP FEMALE TO SMA FEMALE CABLE USING PE-P086 COAX		ITEM NO.	PE3C6470
		SIZE	CAGE CODE	DRAWN BY	
A		A	53919	DZINN	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.					