



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

### TECHNICAL DATA SHEET

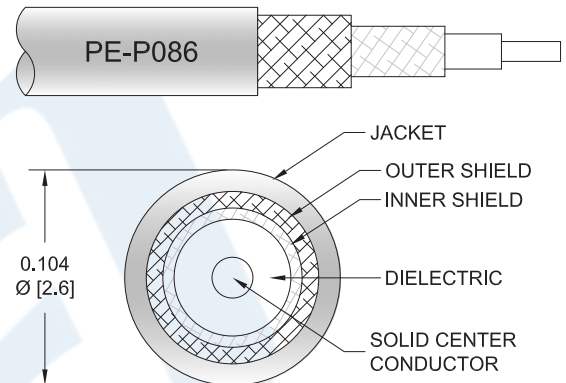
PE3C6470

#### Configuration

- Connector 1: Mini SMP Female
- Connector 2: SMA Female
- 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 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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#### 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]

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

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#### Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Female Push-On	SMA Female Threaded
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

### 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](https://www.pasternack.com/mini-smp-female-to-sma-female-cable-using-pe-p086-pe3c6470-p.aspx)

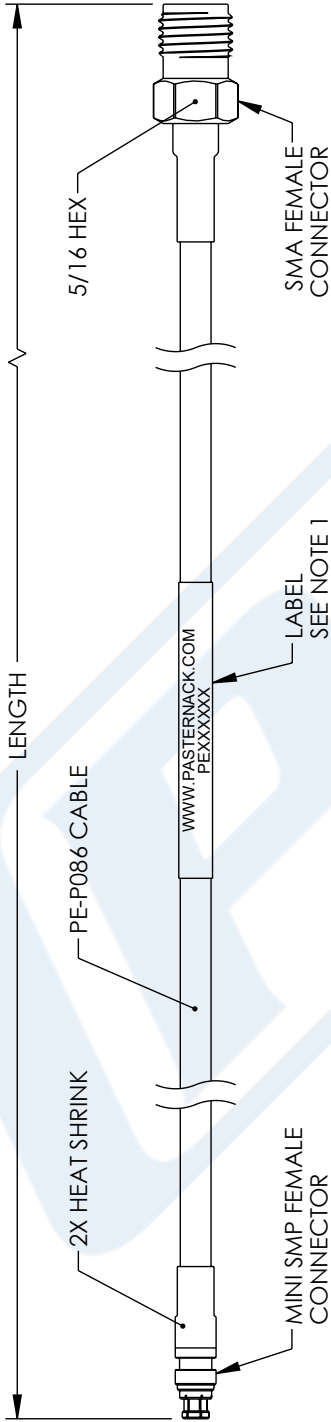
URL: <https://www.pasternack.com/mini-smp-female-to-sma-female-cable-using-pe-p086-pe3c6470-p.aspx>

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PE3C6470 CAD Drawing

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

REVISION			
ZONE	REV.	DESCRIPTION	DATE
	B	ECO-12718	05/25/2023
			CHANGED BY
			APPROVED BY
			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.

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Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		SCALE		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
DESCRIPTION		NONE		SHEET	
MINI SMP FEMALE TO SMA FEMALE CABLE USING PE-P086 COAX				1 OF 1	
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	
A	53919	DZINN	PE3C6470	B	