

## Mini SMP Female to SMA Male Cable 48 Inch Length Using PE-P086 Coax with HeatShrink



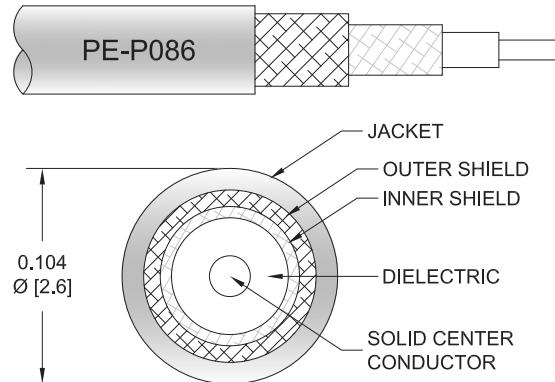
### PE3C4571-48

#### Configuration

- Connector 1: Mini SMP Female
- Connector 2: SMA Male
- 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 PE3C4571-48 Mini SMP female to SMA male 48 inch 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 male gender configuration with 50 ohm flexible PE-P086 coax. The PE3C4571-48 Mini SMP female to SMA male 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.

#### 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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### PE3C4571-48

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C4571	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	
PE3C4571-6	6 inch	Insertion Loss (Typ.)	0.26	0.33	0.45	0.6	0.84	dB	0.013
PE3C4571-12	12 inch	Insertion Loss (Typ.)	0.37	0.48	0.68	0.95	1.36	dB	0.02
PE3C4571-24	24 inch	Insertion Loss (Typ.)	0.58	0.79	1.15	1.64	2.41	dB	0.033
PE3C4571-36	36 inch	Insertion Loss (Typ.)	0.79	1.09	1.62	2.34	3.46	dB	0.046
PE3C4571-48	48 inch	Insertion Loss (Typ.)	1	1.4	2.09	3.03	4.5	dB	0.059

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:  $0.05 * \sqrt{f \text{GHz}}$  dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.02 pounds

Additional Weight per Inch: 0.00109 pounds

### Mechanical Specifications

#### Cable Assembly

Length	48 in [121.92 cm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.059 lbs [26.76 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	Mini SMP Female	SMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Seal Gasket Material	Silicone Rubber	Silicone Rubber

### Environmental Specifications

Operating Range Temperature -40 to +150 deg C

### Compliance Certifications

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

### Plotted and Other Data

Notes:

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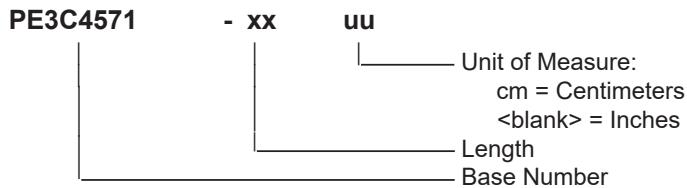


### PE3C4571-48

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3C4571-12 = 12 inches long cable  
PE3C4571-100cm = 100 cm long cable

Mini SMP Female to SMA Male Cable 48 Inch Length Using PE-P086 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 to SMA Male Cable 48 Inch Length Using PE-P086 Coax with HeatShrink PE3C4571-48](#)

URL: <https://www.pasternack.com/mini-smp-female-to-sma-male-cable-48-inch-length-using-pe-p086-with-heatshrink-pe3c4571-48-p.aspx>

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# PE3C4571-48 CAD Drawing

Mini SMP Female to SMA Male Cable 48 Inch Length Using PE-P086 Coax with HeatShrink

