

SMA Female to SMP Female Cable Using PE-P086 Coax

RF Cable Assemblies Technical Data Sheet

PE3C2949

Configuration

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

Features

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

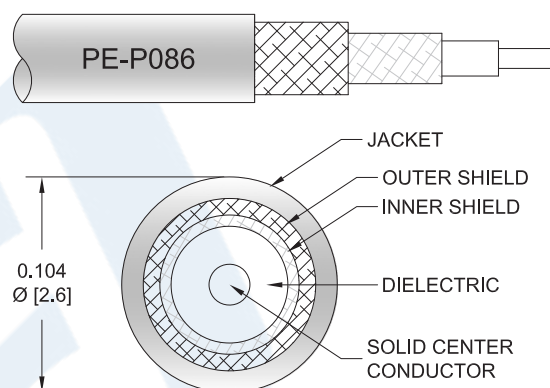
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C2949 SMA female to SMP 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 SMA to SMP cable assembly has a female to female gender configuration with 50 ohm flexible PE-P086 coax. The PE3C2949 SMA female to SMP 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: [SMA Female to SMP Female Cable Using PE-P086 Coax PE3C2949](#)

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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	5	10	18	GHz
Insertion Loss (Typ.)	0.192	0.277	0.457	0.675	0.951	dB/ft
	0.63	0.91	1.5	2.21	3.12	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

Diameter	0.25 in [6.35 mm]
Weight	0.015 lbs [6.8 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]

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RF Cable Assemblies Technical Data Sheet**PE3C2949****Connectors**

Description	Connector 1	Connector 2
Type	SMA Female	SMP Female
Specification		DESC 94008
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating		Beryllium Copper
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification		MIL-G-45204

Compliance Certifications (see [product page](#) for current document)**Plotted and Other Data**

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3C2949

How to Order

Part Number Configuration:

PE3C2949

- **xx**

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

Example: PE3C2949-12 = 12 inches long cable
PE3C2949-100cm = 100 cm long cable

SMA Female to SMP 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.

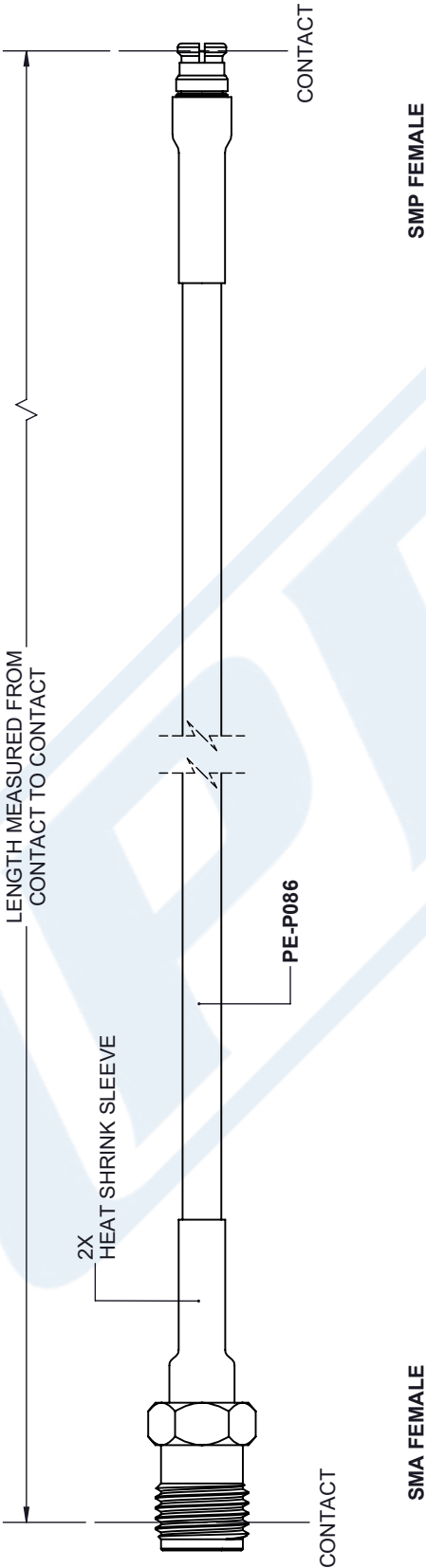
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URL: <https://www.pasternack.com/sma-female-smp-female-pe-p086-cable-assembly-pe3c2949-p.aspx>

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.

PE3C2949 CAD Drawing
SMA Female to SMP Female Cable Using PE-P086 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/18/2021	S. ELLIS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ± .2	[.008]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12	[305]	= +1 [25] / -0
12 [305] < L ≤ 60	[1524]	= +2 [51] / -0
60 [1524] < L ≤ 120	[3048]	= +4 [102] / -0
120 [3048] < L ≤ 300	[7620]	= +6 [152] / -0
300 [7620] < L		= +5% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PE PASTERNAK
an INFINITE brand

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DESIGN IN THIS DOCUMENT
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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K.DANG	PE3C2949
			REV
			A

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