



2.92mm Male to SMP Female Cable Using PE-P047 Coax

TECHNICAL DATA SHEET

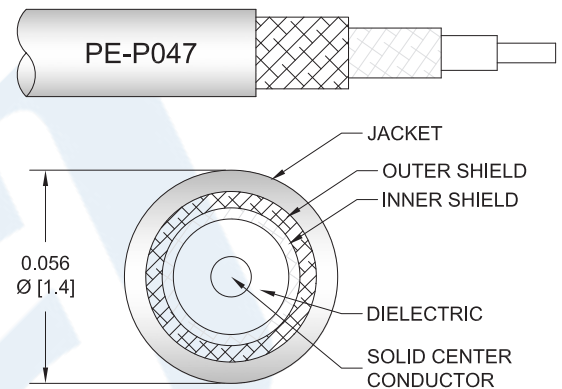
PE3C5896

Configuration

- Connector 1: 2.92mm Male
- Connector 2: SMP Female
- Cable Type: PE-P047
- Coax Flex Type: Flexible

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5896 2.92mm male to SMP female cable using PE-P047 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 2.92mm to SMP cable assembly has a male to female gender configuration with 50 ohm flexible PE-P047 coax. The PE3C5896 2.92mm male to SMP female cable assembly operates to 18 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 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: [2.92mm Male to SMP Female Cable Using PE-P047 Coax PE3C5896](#)



2.92mm Male to SMP Female Cable Using PE-P047 Coax

TECHNICAL DATA SHEET

PE3C5896

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		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	
PE3C5896	Custom Lengths Available	Insertion Loss (Typ.)	0.34	0.48	0.746	1.102	1.653	dB/ft	
			1.1	1.59	2.45	3.62	5.43	dB/m	
PE3C5896-6	6 inch	Insertion Loss (Typ.)	0.37	0.45	0.58	0.76	1.03	dB	0.018
PE3C5896-12	12 inch	Insertion Loss (Typ.)	0.54	0.69	0.95	1.31	1.86	dB	0.019
PE3C5896-24	24 inch	Insertion Loss (Typ.)	0.87	1.17	1.7	2.41	3.51	dB	0.022
PE3C5896-36	36 inch	Insertion Loss (Typ.)	1.21	1.66	2.44	3.51	5.16	dB	0.025
PE3C5896-48	48 inch	Insertion Loss (Typ.)	1.54	2.14	3.19	4.61	6.82	dB	0.028

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:	0.1 dB
Base Weight:	0.019 pounds
Additional Weight per Inch:	0.00025 pounds

Mechanical Specifications

Cable Assembly

Weight	0.019 lbs [8.62 g]
--------	--------------------

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male to SMP Female Cable Using PE-P047 Coax PE3C5896](#)



2.92mm Male to SMP Female Cable Using PE-P047 Coax

TECHNICAL DATA SHEET

PE3C5896

Cable

Cable Type	PE-P047
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	FEP
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.056 in [1.42 mm]
One Time Minimum Bend Radius	0.2 in [5.08 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

Connectors

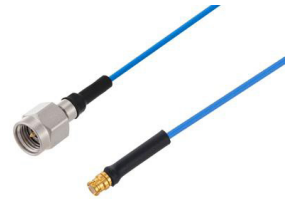
Description	Connector 1	Connector 2
Type	2.92mm Male Threaded	SMP Female Push-On
Specification		DESC 94008
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	MIL-G-45204
Dielectric Type	PEI	PTFE
Body Material and Plating	Passivated Stainless Steel	Beryllium Copper, Gold
Body Plating Specification	SAE-AMS-2700	MIL-G-45204
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male to SMP Female Cable Using PE-P047 Coax PE3C5896](#)



2.92mm Male to SMP Female Cable Using PE-P047 Coax

TECHNICAL DATA SHEET

PE3C5896

How to Order

Part Number Configuration:

PE3C5896

- **xx**

uu

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

Example: PE3C5896-12 = 12 inches long cable
PE3C5896-100cm = 100 cm long cable

2.92mm Male to SMP Female Cable Using PE-P047 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.

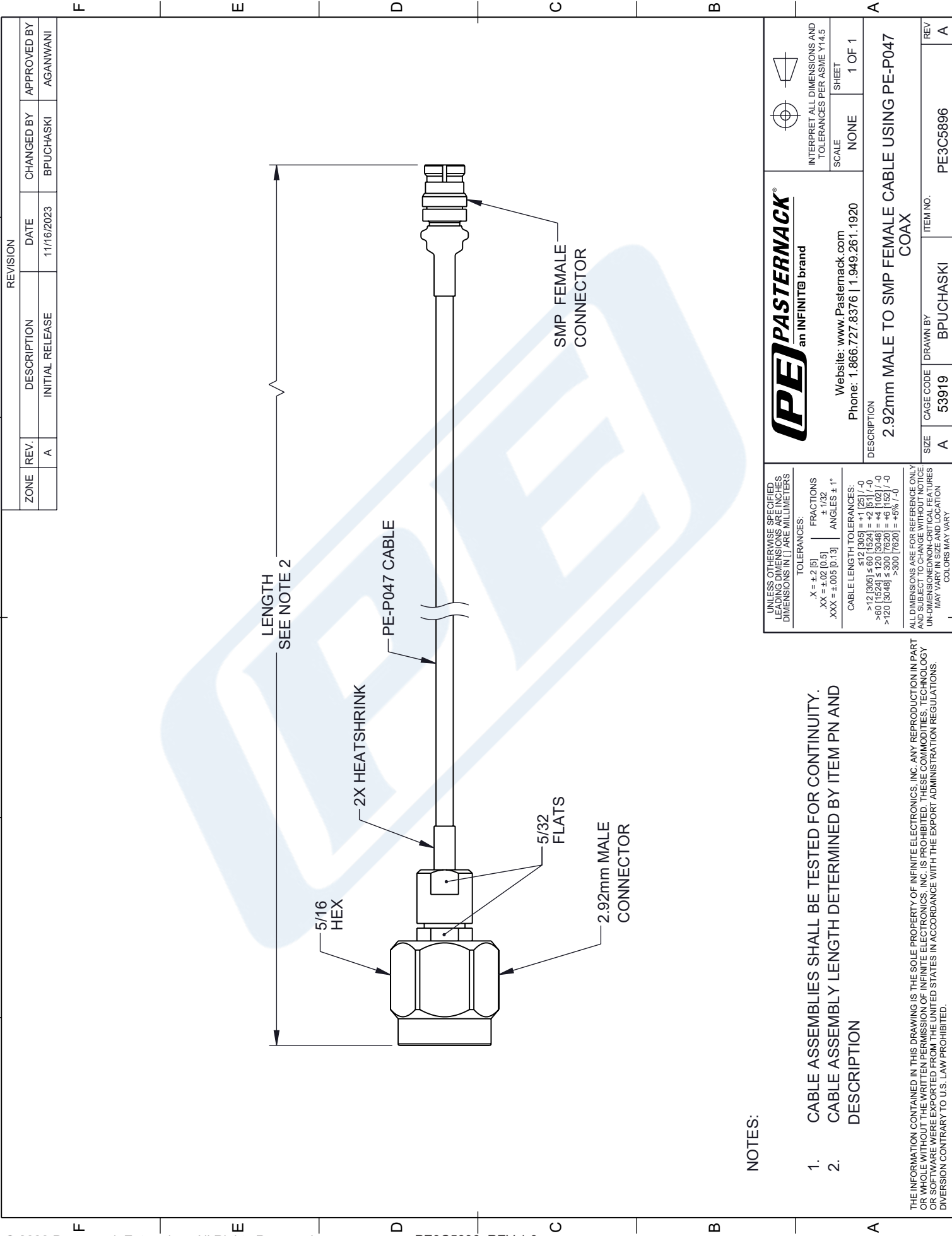
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male to SMP Female Cable Using PE-P047 Coax PE3C5896](https://www.pasternack.com/2.92mm-male-to-smp-female-cable-using-pe-p047-pe3c5896-p.aspx)

URL: <https://www.pasternack.com/2.92mm-male-to-smp-female-cable-using-pe-p047-pe3c5896-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.

PE3C5896 CAD Drawing

2.92mm Male to SMP Female Cable Using PE-P047 Coax



NOTES:

- 1. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

<div>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.</div> <div>TOLERANCES: <div><div>$XX = \pm .2 [5]$</div><div>$XXX = \pm .02 [0.5]$</div></div><div><div>$\pm 1/32$</div><div>$\pm .005 [0.13]$</div></div></div> <div>FRACTIONS ANGLES $\pm 1^\circ$</div>		<div> PASTERNAK an INFINITI® brand</div> <div>Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920</div>		<div></div> <div>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</div> <div>SCALE: NONE</div> <div>SHEET: 1 OF 1</div>	
CABLE LENGTH TOLERANCES: <div>$\leq 12 [305] = \pm 1/25 [1/-0]$ $>12 [305] \leq 60 [1524] = \pm 2/5 [1/-0]$ $>60 [1524] \leq 300 [7620] = \pm 1/2 [0/-0]$ $>120 [3048] \leq 300 [7620] = \pm 1/2 [0/-0]$ $>300 [7620] = \pm 5% [1/-0]$</div>		DESCRIPTION 2.92mm MALE TO SMP FEMALE CABLE USING PE-P047 COAX		CAGE CODE: 53919	
SIZE: A		DRAWN BY: BPUCHASKI		ITEM NO.: PE3C5896	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY				REV: A	