

## SMPS Female to 2.92mm Female Cable 18 Inch Length Using PE-P047HF Coax

### PE3C9955-18

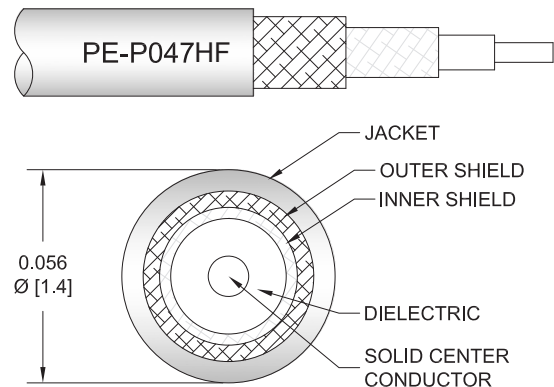


#### Configuration

- Connector 1: SMPS Female
- Connector 2: 2.92mm Female
- Cable Type: PE-P047HF
- Coax Flex Type: Flexible

#### Features

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use
- Scientific research
- High-reliability, high-density for aerospace & defense application
- Ground base station & communication systems, avionics, radar systems

#### Description

Pasternack's PE3C9955-18 SMPS female to 2.92mm female 18 inch cable using PE-P047HF 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 SMPS to 2.92mm cable assembly has a female to female gender configuration with 50 ohm flexible PE-P047HF coax. The PE3C9955-18 SMPS female to 2.92mm female cable assembly operates to 40 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.5:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	40000	MHz	
PE3C9955	Custom Lengths Available	Insertion Loss (Typ.)	0.55	0.8	1.17	1.78	2.77	dB/ft	
			1.81	2.63	3.84	5.84	9.09	dB/m	
PE3C9955-6	6 inch	Insertion Loss (Typ.)	0.54	0.73	1.01	1.44	2.12	dB	0.009
PE3C9955-12	12 inch	Insertion Loss (Typ.)	0.81	1.13	1.59	2.33	3.51	dB	0.011
PE3C9955-18	18 inch	Insertion Loss (Typ.)	1.09	1.53	2.18	3.22	4.89	dB	0.013

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\*SQRT(FGHz) dB  
 Loss due to Connector 2: 0.1 dB  
 Base Weight: 0.011 pounds  
 Additional Weight per Inch: 0.00033 pounds

### Mechanical Specifications

#### Cable Assembly

Length 18 in [457.2 mm]  
 Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.01711 lbs [7.76 g]

#### Cable

Cable Type PE-P047HF  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, 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 0.06 in [1.52 mm]  
 Repeated Minimum Bend Radius 0.1 in [2.54 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMPS Female	2.92mm Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum gold	50 µin minimum
Dielectric Type	PTFE	PEI
Outer Conductor Material and Plating	Beryllium Copper, Gold	Passivated Stainless Steel
Outer Conductor Plating Specification	50 µin minimum	SAE-AMS-2700
Body Material and Plating	Beryllium Copper, Gold	Passivated Stainless Steel
Body Plating Specification	30 µin minimum	SAE-AMS-2700

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

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### PE3C9955-18

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C9955**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C9955-12 = 12 inches long cable  
PE3C9955-100cm = 100 cm long cable

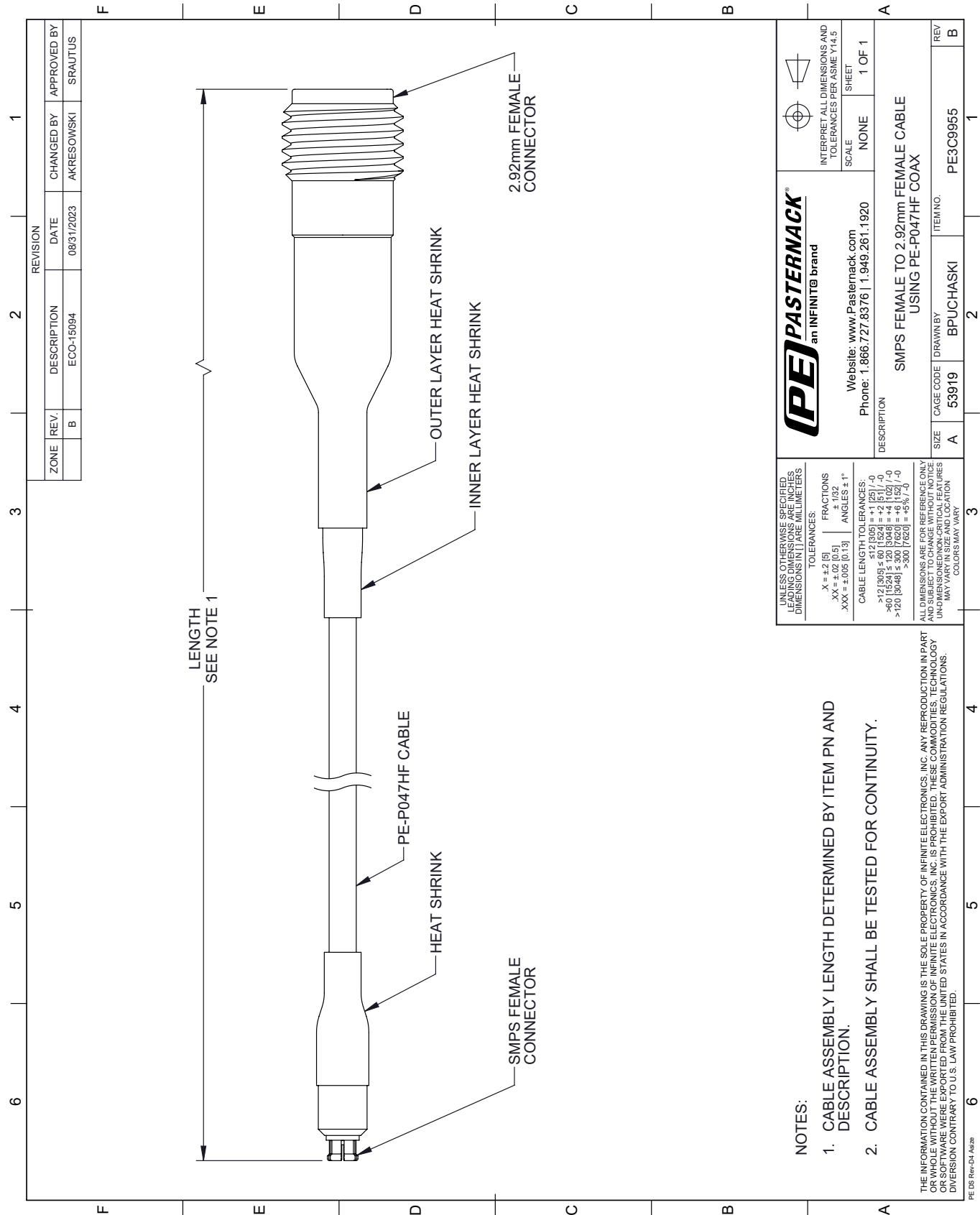
SMPS Female to 2.92mm Female Cable 18 Inch Length Using PE-P047HF Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMPS Female to 2.92mm Female Cable 18 Inch Length Using PE-P047HF Coax PE3C9955-18](https://www.pasternack.com/smps-female-to-2.92mm-female-cable-18-inch-length-using-pe-p047hf-pe3c9955-18-p.aspx)

URL: <https://www.pasternack.com/smps-female-to-2.92mm-female-cable-18-inch-length-using-pe-p047hf-pe3c9955-18-p.aspx>

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PE3C9955-18 CAD Drawing
SMPS Female to 2.92mm Female Cable 18 Inch Length Using PE-P047HF Coax



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

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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.		<b>PE PASTERNAK</b> an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a>		SCALE	
X = ±.2 [5]		Phone: 1.866.727.8376   1.949.261.1920		NONE	
XX = ±.02 [0.5]				SHEET	
XXX = ±.005 [0.13]				1 OF 1	
ANGLES ± 1°					
CABLE LENGTH TOLERANCES:		DESCRIPTION			
>12 [305] ≤ 60 [1524] = ±.1 [25] / -0		SMPS FEMALE TO 2.92mm FEMALE CABLE			
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0		USING PE-P047HF COAX			
>120 [3048] ≤ 300 [7620] = ±.6 [152] / -0					
>300 [7620] = ±.8% / -0					
ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED.		SIZE		REV	
UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		A		B	
		CAGE CODE		ITEM NO.	
		53919		PE3C9955	
		DRAWN BY			
		BPUCHASKI			