

2.92mm Female to 2.92mm Female Cable  
Using PE-SR047FL Coax



**RF Cable Assemblies Technical Data Sheet**

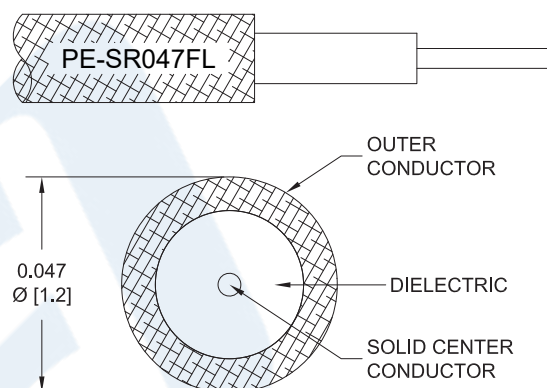
**PE3W08803**

**Configuration**

- Connector 1: 2.92mm Female
- Connector 2: 2.92mm Female
- Cable Type: PE-SR047FL

**Features**

- Max Frequency 20 GHz
- 69.5% Phase Velocity



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W08803 2.92mm female to 2.92mm female cable using PE-SR047FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack 2.92mm to 2.92mm cable assembly has a female to female gender configuration with 50 ohm formable PE-SR047FL coax. The PE3W08803 2.92mm female to 2.92mm female cable assembly operates to 20 GHz.

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 Female to 2.92mm Female Cable Using PE-SR047FL Coax PE3W08803](#)



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### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		20	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		32 [104.99]		pF/ft [pF/m]
DC Resistance Inner Conductor		207 [679.13]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		8 [26.25]		Ω/1000ft [Ω/Km]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	20	GHz
Insertion Loss (Typ.)	0.33	0.505	0.807	1.196	1.92	dB/ft
	1.08	1.66	2.65	3.92	6.3	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 0.015 lbs [6.8 g]

#### Cable

Cable Type PE-SR047FL  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Outer Conductor Material and Plating Tinned Copper Braid

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### Connectors

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

### Environmental Specifications

#### Temperature

Operating Range

-40 to +100 deg C

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

### Plotted and Other Data

Notes:

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### RF Cable Assemblies Technical Data Sheet

**PE3W08803**

#### How to Order

Part Number Configuration:

**PE3W08803**

- **xx**

**uu**

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

Example: PE3W08803-12 = 12 inches long cable  
PE3W08803-100cm = 100 cm long cable

2.92mm Female to 2.92mm Female Cable Using PE-SR047FL 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 Female to 2.92mm Female Cable Using PE-SR047FL Coax PE3W08803](https://www.pasternack.com/2.92mm-female-to-2.92mm-female-cable-using-pe-sr047fl-pe3w08803-p.aspx)

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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.

# PE3W08803 CAD Drawing

2.92mm Female to 2.92mm Female Cable Using PE-SR047FL Coax

