

## 2.92mm Female to 2.92mm Female Cable Using PE-118SR Semi-Rigid Coax



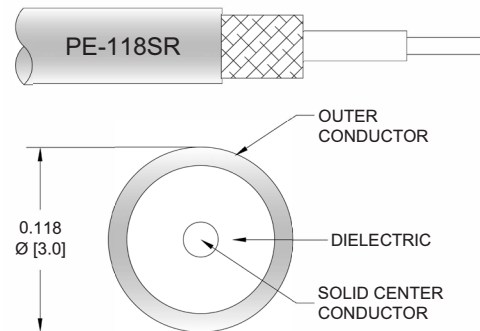
### PE3C10453

#### Configuration

- Connector 1: 2.92mm Female
- Connector 2: 2.92mm Female
- Cable Type: PE-118SR
- Coax Flex Type: Semi-Rigid

#### Features

- Max Frequency 40 GHz
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C10453 2.92mm female to 2.92mm female cable using PE-118SR coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack 2.92mm to 2.92mm cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-118SR coax. The PE3C10453 2.92mm female to 2.92mm female cable assembly operates to 40 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	

#### Specifications by Frequency

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### PE3C10453

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	MHz	
PE3C10453	Custom Lengths Available	Insertion Loss (Typ.)	0.175	0.258	0.425	0.625	dB/ft	
			0.58	0.85	1.4	2.06	dB/m	
PE3C10453-6	6 Inch	Insertion Loss (Typ.)	0.29	0.33	0.42	0.52	dB	0.042
PE3C10453-12	12 Inch	Insertion Loss (Typ.)	0.38	0.46	0.63	0.83	dB	0.053
PE3C10453-18	18 Inch	Insertion Loss (Typ.)	0.47	0.59	0.84	1.14	dB	0.065
PE3C10453-24	24 Inch	Insertion Loss (Typ.)	0.55	0.72	1.05	1.45	dB	0.076
PE3C10453-36	36 Inch	Insertion Loss (Typ.)	0.73	0.98	1.48	2.08	dB	0.099

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:	0.053 pounds
Additional Weight per Inch:	0.00188 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.053 lbs [24.04 g]

#### Cable

Cable Type	PE-118SR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE (LD)
Number of Shields	1
Shield Layer 1	Copper
Jacket Material	Tan
One Time Minimum Bend Radius	0.4 in [10.16 mm]

### Connectors

Description	Connector 1	Connector 2
Type	2.92mm Female	2.92mm Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Nickel over Copper	Beryllium Copper, Gold over Nickel over Copper
Dielectric Type	PPO	PPO
Body Material and Plating	Stainless Steel, Passivated	Stainless Steel, Passivated

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### PE3C10453

#### Environmental Specifications

Operating Range Temperature

-40 to +105 deg C

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C10453**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10453-12 = 12 inches long cable  
PE3C10453-100cm = 100 cm long cable

2.92mm Female to 2.92mm Female Cable Using PE-118SR Semi-Rigid 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.

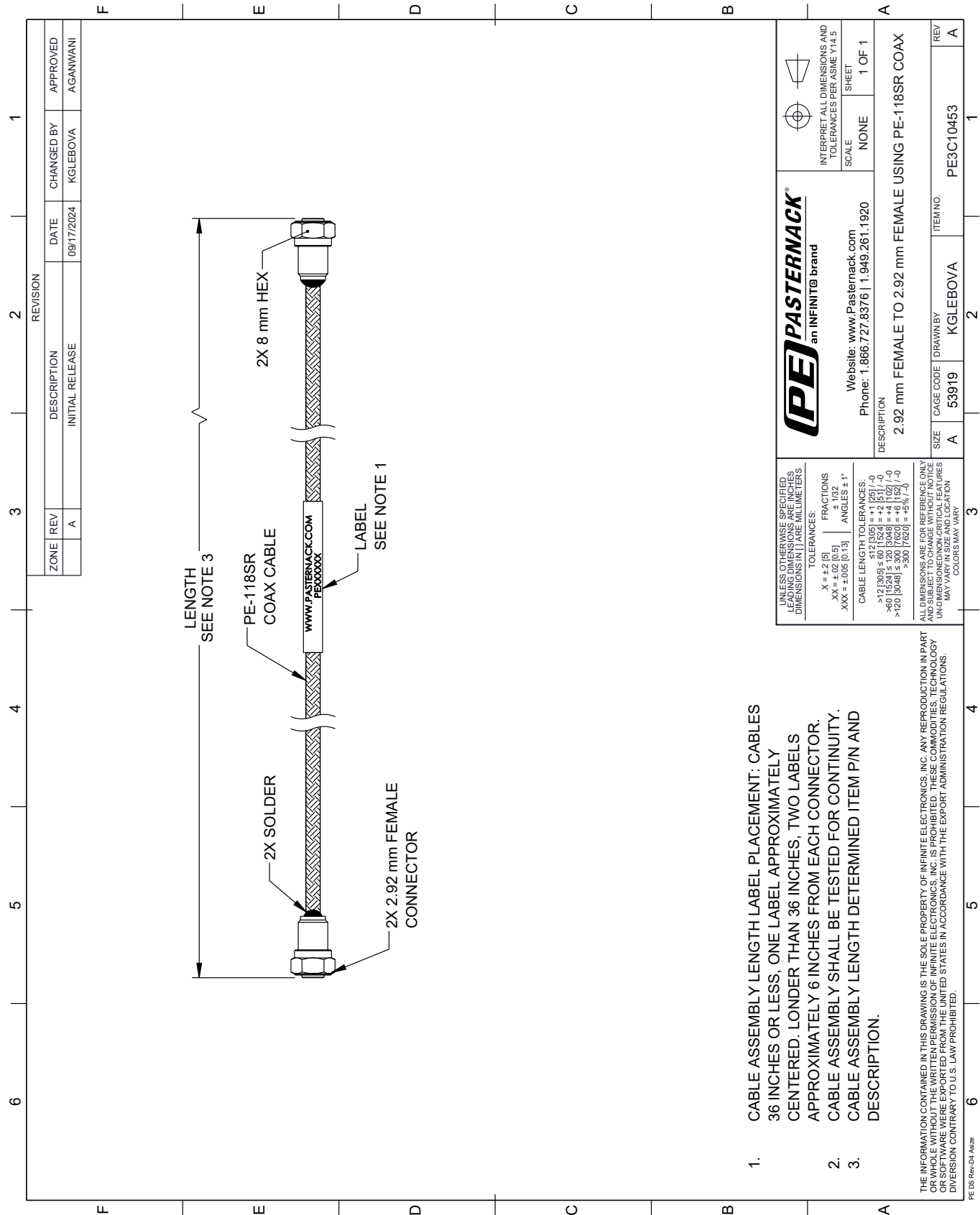
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Female to 2.92mm Female Cable Using PE-118SR Semi-Rigid Coax PE3C10453](#)

URL: <https://www.pasternack.com/2.92mm-female-to-2.92mm-female-cable-using-pe-118sr-pe3c10453-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C10453 CAD Drawing

2.92mm Female to 2.92mm Female Cable Using PE-118SR Semi-Rigid Coax



REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	09/17/2024
			CHANGED BY
			AGANWANI
			APPROVED

<b>(PE) PASTERNAK</b> an INFINITE® brand		Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.		TOLERANCES:		SCALE	
X = ±.2 [5]		FRACTIONS		NONE	
.XX = ±.02 [0.5]		± 1/32		SHEET	
.XXX = ±.005 [0.13]		ANGLES ± 1°		1 OF 1	
CABLE LENGTH TOLERANCES:		CABLE LENGTH TOLERANCES:			
>12 [305] ≤ 60 [1524] = ±.125 [-0]		>12 [305] ≤ 60 [1524] = ±.125 [-0]			
>60 [1524] ≤ 120 [3048] = ±.125 [-0]		>60 [1524] ≤ 120 [3048] = ±.125 [-0]			
>120 [3048] ≤ 300 [7620] = ±.125 [-0]		>120 [3048] ≤ 300 [7620] = ±.125 [-0]			
>300 [7620] = ±.125 [-0]		>300 [7620] = ±.125 [-0]			
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		DESCRIPTION			
		2.92 mm FEMALE TO 2.92 mm FEMALE USING PE-118SR COAX			
SIZE		CAGE CODE		ITEM NO.	
A		53919		PE3C10453	
DRAWN BY		KGLEBOVA		REV	
				A	