

## 1.85mm Female to BNC Male Cable Using PE-SR047FL Coax

### RF Cable Assemblies Technical Data Sheet

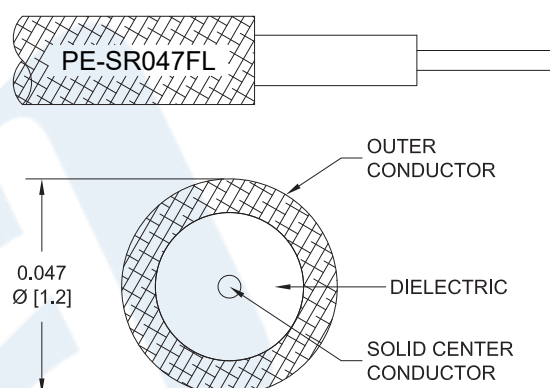
**PE3C9523**

#### Configuration

- Connector 1: 1.85mm Female
- Connector 2: BNC Male
- Cable Type: PE-SR047FL

#### Features

- Max Frequency 4 GHz
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C9523 1.85mm female to BNC male 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 1.85mm to BNC cable assembly has a female to male gender configuration with 50 ohm formable PE-SR047FL coax. The PE3C9523 1.85mm female to BNC male cable assembly operates to 4 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: [1.85mm Female to BNC Male Cable Using PE-SR047FL Coax PE3C9523](#)

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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
Velocity of Propagation		69.5		%
Capacitance		32 [104.99]		pF/ft [pF/m]
DC Resistance Inner Conductor		207 [679.13]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		8 [26.25]		$\Omega$ /1000ft [ $\Omega$ /Km]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Max.)	1.05	1.125	1.25	1.36	1.755	dB/ft
	3.44	3.69	4.1	4.46	5.76	dB/m

#### Mechanical Specifications

##### Cable Assembly

Weight 0.033 lbs [14.97 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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## 1.85mm Female to BNC Male Cable Using PE-SR047FL Coax

**RF Cable Assemblies Technical Data Sheet****PE3C9523****Connectors**

Description	Connector 1	Connector 2
Type	1.85mm Female	BNC Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Gold
Contact Plating Specification	50μ Inches.	MIL-G-45204
Dielectric Type		PTFE
Body Material and Plating	Passivated Stainless Steel	Brass, Nickel
Body Plating Specification	SAE-AMS-2700	QQ-N-290
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Nickel
Coupling Nut Plating Specification	SAE-AMS-2700	QQ-N-290

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

Notes:

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## 1.85mm Female to BNC Male Cable Using PE-SR047FL Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C9523**

#### How to Order

Part Number Configuration:

**PE3C9523**

- **xx**

**uu**

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

Example: PE3C9523-12 = 12 inches long cable  
PE3C9523-100cm = 100 cm long cable

1.85mm Female to BNC Male 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: [1.85mm Female to BNC Male Cable Using PE-SR047FL Coax PE3C9523](#)

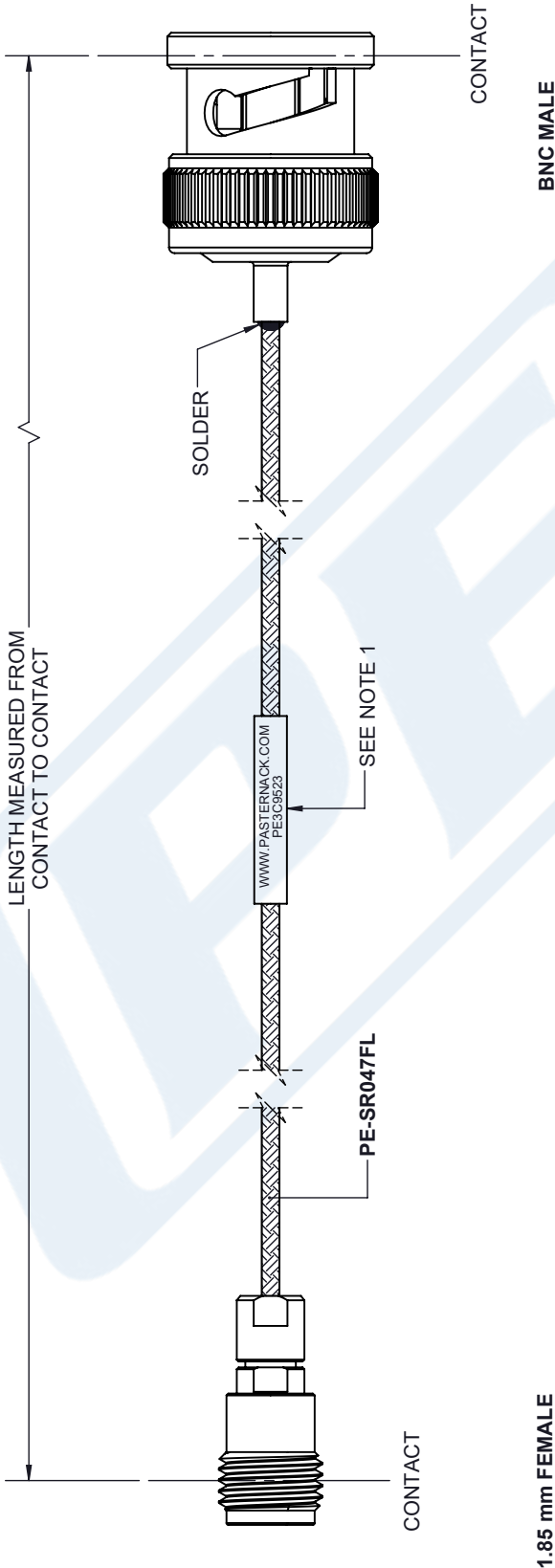
URL: <https://www.pasternack.com/1.85mm-female-to-bnc-male-cable-using-pe-sr047fl-pe3c9523-p.aspx>

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.

PE3C9523 CAD Drawing

1.85mm Female to BNC Male Cable Using PE-SR047FL Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/22/2022	A. GANWANI



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		<b>PE PASTERNAK</b> an INFINITE brand Pasternack Enterprises, Inc. P.O.Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com		THIRD-ANGLE PROJECTION  THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.	
TOLERANCES: .X = ± .2 [ .508] .XX = ± .02 [ .51] .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		SHEET 1 OF 1		SCALE N/A	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SIZE A		CAGE CODE 53919	
		DRAWN BY K.DANG		ITEM NO. PE3C9523	
				REV A	

NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE END OF THE CONNECTOR.

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