



## 2.92mm Male to 2.92mm Male Cable Using PE-047SR Coax

### TECHNICAL DATA SHEET

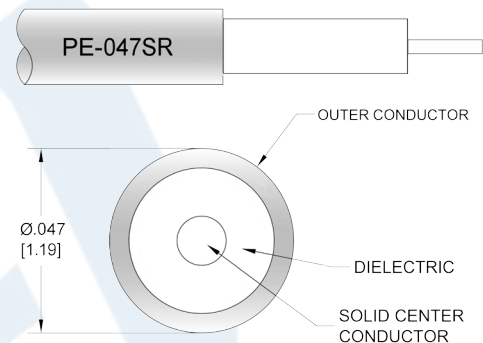
**PE3W01709**

#### Configuration

- Connector 1: 2.92mm Male
- Connector 2: 2.92mm Male
- Cable Type: PE-047SR
- Coax Flex Type: Semi-Rigid

#### Features

- Max Frequency 20 GHz



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01709 2.92mm male to 2.92mm male cable using PE-047SR 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 male to male gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3W01709 2.92mm male to 2.92mm male 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 Male to 2.92mm Male Cable Using PE-047SR Coax PE3W01709](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		20	GHz
VSWR			1.4:1	

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	20000	MHz	
PE3W01709	Custom Lengths Available	Insertion Loss (Typ.)	0.4	0.5	0.75	1.2	1.9	dB/ft	
			1.32	1.65	2.47	3.94	6.24	dB/m	
PE3W01709-3	3 inch	Insertion Loss (Typ.)	0.3	0.33	0.39	0.5	0.68	dB	0.017
PE3W01709-6	6 inch	Insertion Loss (Typ.)	0.4	0.45	0.58	0.8	1.15	dB	0.018
PE3W01709-12	12 inch	Insertion Loss (Typ.)	0.6	0.7	0.95	1.4	2.1	dB	0.02
PE3W01709-18	18 inch	Insertion Loss (Typ.)	0.8	0.95	1.33	2	3.05	dB	0.023
PE3W01709-60	60 inch	Insertion Loss (Typ.)	2.2	2.7	3.95	6.2	9.7	dB	0.037

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:	0.02 pounds
Additional Weight per Inch:	0.00034 pounds

#### Mechanical Specifications

##### Cable Assembly

Weight 0.02 lbs [9.07 g]

##### Cable

Cable Type	PE-047SR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Copper
Jacket Diameter	0.047 in [1.19 mm]

One Time Minimum Bend Radius 0.05 in [1.27 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male Threaded	2.92mm Male Threaded
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
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Hex Size	5/16 Inch	5/16 Inch
Torque	10 in-lbs [1.13 Nm]	10 in-lbs [1.13 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 2.92mm Male Cable Using PE-047SR Coax PE3W01709](#)



## 2.92mm Male to 2.92mm Male Cable Using PE-047SR Coax

### TECHNICAL DATA SHEET

**PE3W01709**

#### How to Order

Part Number Configuration:

**PE3W01709**

- **xx**

**uu**

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

Example: PE3W01709-12 = 12 inches long cable  
PE3W01709-100cm = 100 cm long cable

2.92mm Male to 2.92mm Male Cable Using PE-047SR 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.

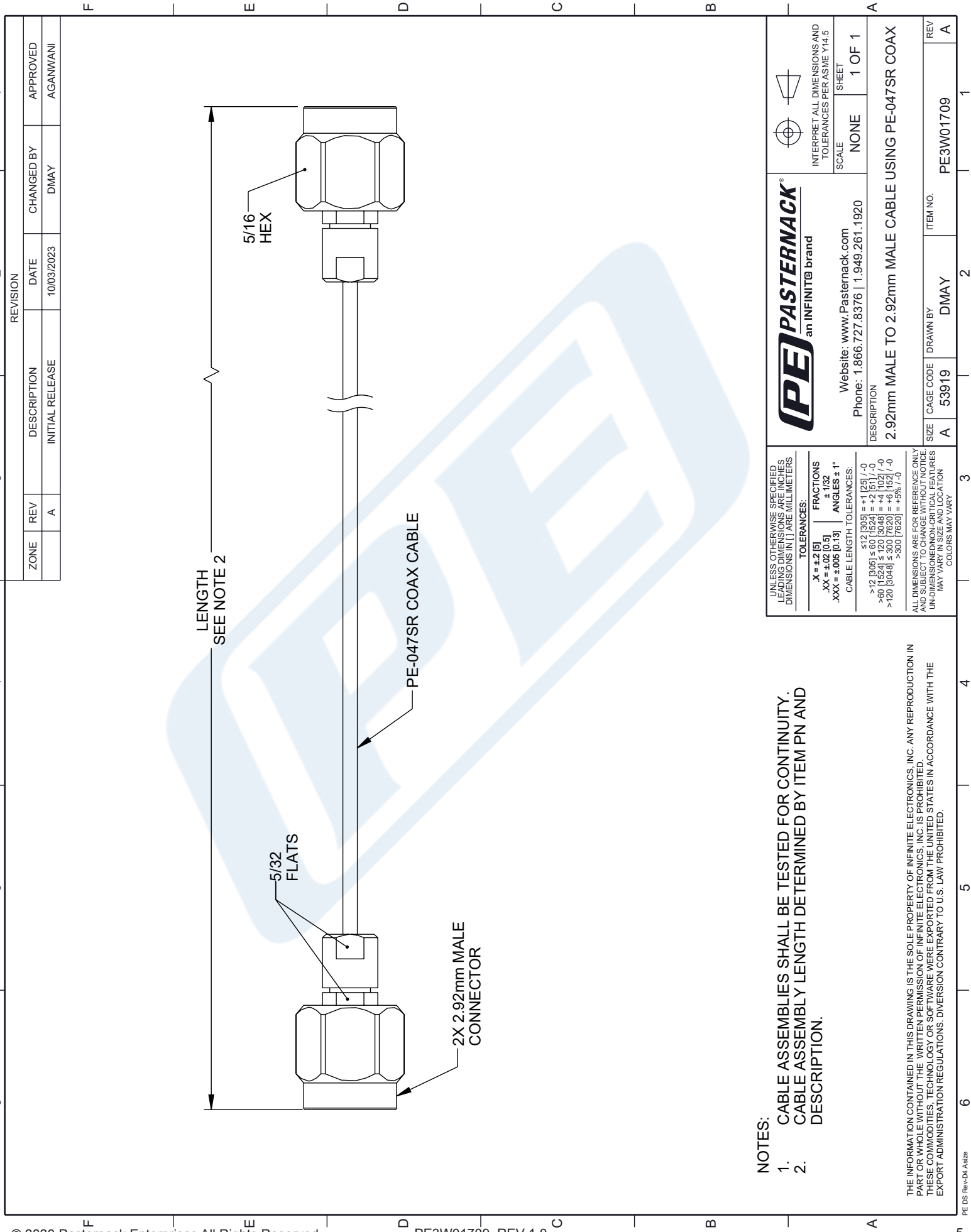
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male to 2.92mm Male Cable Using PE-047SR Coax PE3W01709](https://www.pasternack.com/2.92mm-male-to-2.92mm-male-cable-using-pe-047sr-pe3w01709-p.aspx)

URL: <https://www.pasternack.com/2.92mm-male-to-2.92mm-male-cable-using-pe-047sr-pe3w01709-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.

# PE3W01709 CAD Drawing

2.92mm Male to 2.92mm Male Cable Using PE-047SR Coax




## NOTES:

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

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	± .005 [0.13]
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
<12 [305] = ±.1 [25] / -0	
>12 [305] ≤ 60 [1524] = ±.2 [5] / -0	
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0	
>120 [3048] ≤ 300 [7620] = ±.6 [152] / -0	
>300 [7620] = ±.5% / -0	

ALL DIMENSIONS ARE FOR REFERENCE ONLY. ALL DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920	
DESCRIPTION 2.92mm MALE TO 2.92mm MALE CABLE USING PE-047SR COAX	
SCALE NONE	SHEET 1 OF 1
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	

SIZE A	CAGE CODE 53919	DRAWN BY DMAY	ITEM NO. PE3W01709	REV A
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