

SMP Female Right Angle to SMP Female
Right Angle Cable Using PE-SR047AL Coax



TECHNICAL DATA SHEET

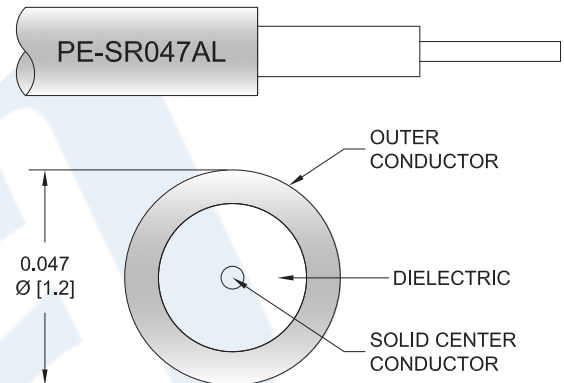
PE3W04491

Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR047AL
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04491 SMP female right angle to SMP female right angle cable using PE-SR047AL 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 SMP to SMP cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-SR047AL coax. The PE3W04491 SMP female to SMP female cable assembly operates to 8 GHz. The right angle SMP interfaces on the PE-SR047AL cable allow for easier connections in tight spaces.

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: [SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047AL Coax PE3W04491](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.33:1	
Velocity of Propagation		69.5		%
RF Shielding	90			dB

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4000	8000	0	MHz	
PE3W04491	Custom Lengths Available	Insertion Loss (Typ.)	0.41	0.5	0.7	1.1	0	dB/ft	
			1.35	1.65	2.3	3.61	0	dB/m	
PE3W04491-6	6 inch	Insertion Loss (Typ.)	0.61	0.65	0.75	0.95	0	dB	0.012
PE3W04491-12	12 inch	Insertion Loss (Typ.)	0.81	0.9	1.1	1.5	0	dB	0.013
PE3W04491-24	24 inch	Insertion Loss (Typ.)	1.22	1.4	1.8	2.6	0	dB	0.016
PE3W04491-36	36 inch	Insertion Loss (Typ.)	1.63	1.9	2.5	3.7	0	dB	0.018
PE3W04491-48	48 inch	Insertion Loss (Typ.)	2.04	2.4	3.2	4.8	0	dB	0.021

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.013 pounds
Additional Weight per Inch:	0.0002 pounds

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Weight	0.013 lbs [5.9 g]
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Cable

Cable Type	PE-SR047AL
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 Aluminum
Repeated Minimum Bend Radius	0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMP Female Right Angle Push-On	SMP Female Right Angle Push-On
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-DTL-45204	MIL-DTL-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Plating Specification	MIL-DTL-45204	MIL-DTL-45204

Environmental Specifications

Temperature

Operating Range	-55 to +100 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W04491

- **xx**

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

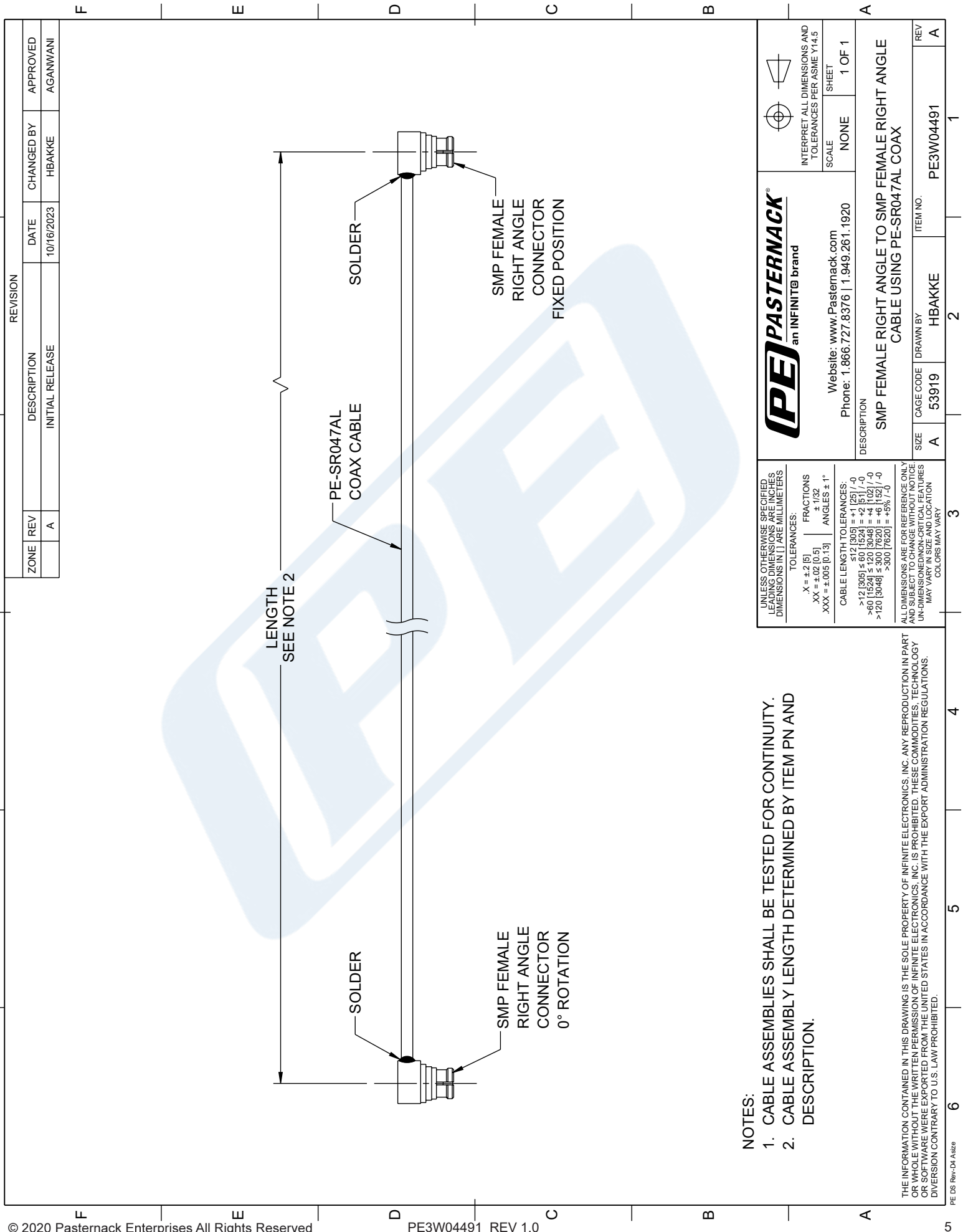
Example: PE3W04491-12 = 12 inches long cable
PE3W04491-100cm = 100 cm long cable

SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047AL 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: [SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047AL Coax PE3W04491](#)

URL: <https://www.pasternack.com/smp-female-smp-female-pe-sr047al-cable-assembly-pe3w04491-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.



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	10/16/2023	HBAKKE	AGANWANI

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		TOLERANCES: X = ±2 [5] FRACTIONS .XX = ±.02 [0.5] ± 1/32 XXX = ±.05 [0.13] ANGLES ± 1°	
CABLE LENGTH TOLERANCES: ≤12 [305] = ±1 [25] / -0 >12 [305] ≤ 60 [1524] = +2 [51] / -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 AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY	
 an INFINITI® brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		SCALE	NONE
SHEET		1 OF 1	
DESCRIPTION SMP FEMALE RIGHT ANGLE TO SMP FEMALE RIGHT ANGLE CABLE USING PE-SR047AL COAX			
SIZE	A	CAGE CODE	53919
DRAWN BY	HBAKKE		ITEM NO.
REV	PE3W04491		A

NOTES:

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

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