

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



RF Cable Assemblies Technical Data Sheet

PE3C6427

Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR047AL

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 69.5% Phase Velocity

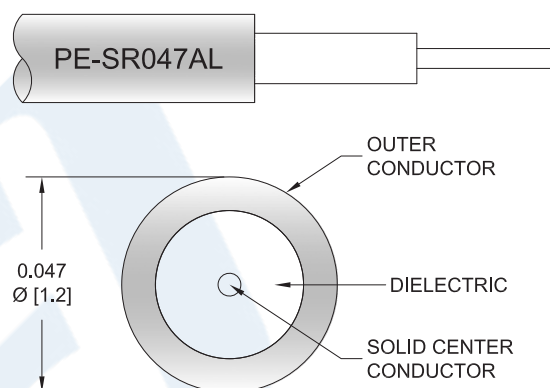
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6427 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 PE3C6427 SMP female to SMP female cable assembly operates to 18 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 PE3C6427](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	90			dB

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.41	0.508	0.756	1.201	1.78	dB/ft
	1.35	1.67	2.48	3.94	5.84	dB/m

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 0.004 lbs [1.81 g]

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]

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Connectors

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

Environmental Specifications

Temperature

Operating Range -55 to +100 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C6427

- xx

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

Example: PE3C6427-12 = 12 inches long cable
PE3C6427-100cm = 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.

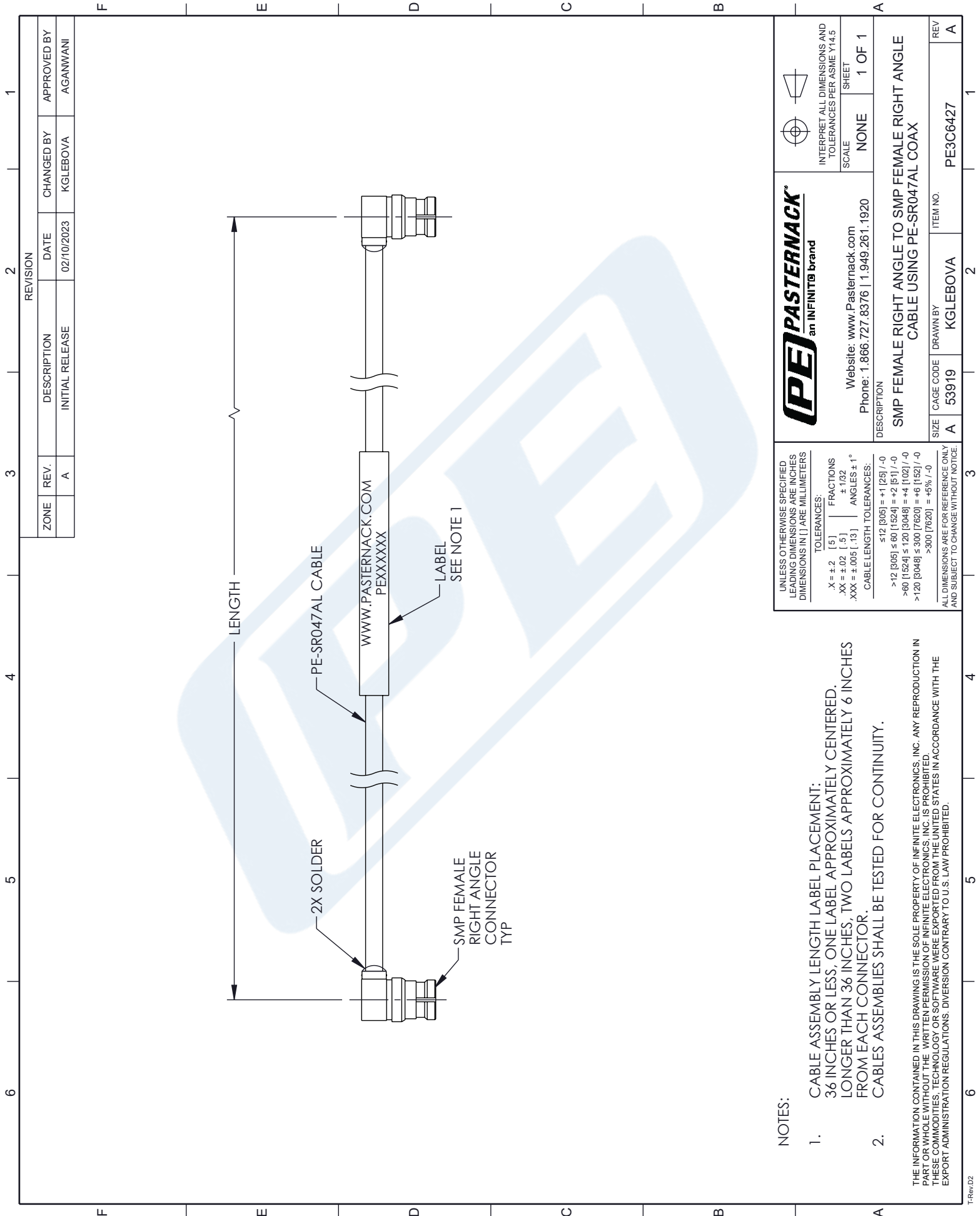
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URL: <https://www.pasternack.com/smp-female-right-angle-to-smp-female-cable-using-pe-sr047al-pe3c6427-p.aspx>

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.

PE3C6427 CAD Drawing

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



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES
FROM EACH CONNECTOR.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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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	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3C6427

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ±.2	[.5]	FRACTIONS	±.1/32
.XX = ±.02	[.13]	ANGLES ± 1°	
.XXX = ±.005	[.13]		

CABLE LENGTH TOLERANCES:

≤12 [305]	±.1 [25]	/ -0
>12 [305]	±.12 [305]	/ -0
>60 [1524]	±.12 [305]	/ -0
>120 [3048]	±.12 [305]	/ -0
>300 [7620]	±.12 [305]	/ -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE.