



Mini SMP Female to Mini SMP Female
Right Angle Cable Using PE-047SR Coax

RF Cable Assemblies Technical Data Sheet

PE3W02284

Configuration

- Connector 1: Mini SMP Female
- Connector 2: Mini SMP Female Right Angle
- Cable Type: PE-047SR
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 12 GHz

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02284 Mini SMP female to Mini SMP female right angle 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 Mini SMP to Mini SMP cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3W02284 Mini SMP female to Mini SMP female cable assembly operates to 12 GHz. The right angle Mini SMP interface on the PE-047SR cable allows 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12	GHz
VSWR			1.4:1	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	5	12		GHz
Insertion Loss (Typ.)	0.4	0.55	0.8	1.42		dB/ft
	1.31	1.8	2.62	4.66		dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the Mini SMP female straight connector and 0.2 dB for the Mini SMP female right angle connector.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female to Mini SMP Female Right Angle Cable Using PE-047SR Coax PE3W02284](#)



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Mechanical Specifications

Cable Assembly

Weight 0.007 lbs [3.18 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]

Connectors

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

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W02284

- **xx**

uu

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

Example: PE3W02284-12 = 12 inches long cable
PE3W02284-100cm = 100 cm long cable

Mini SMP Female to Mini SMP Female Right Angle 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.

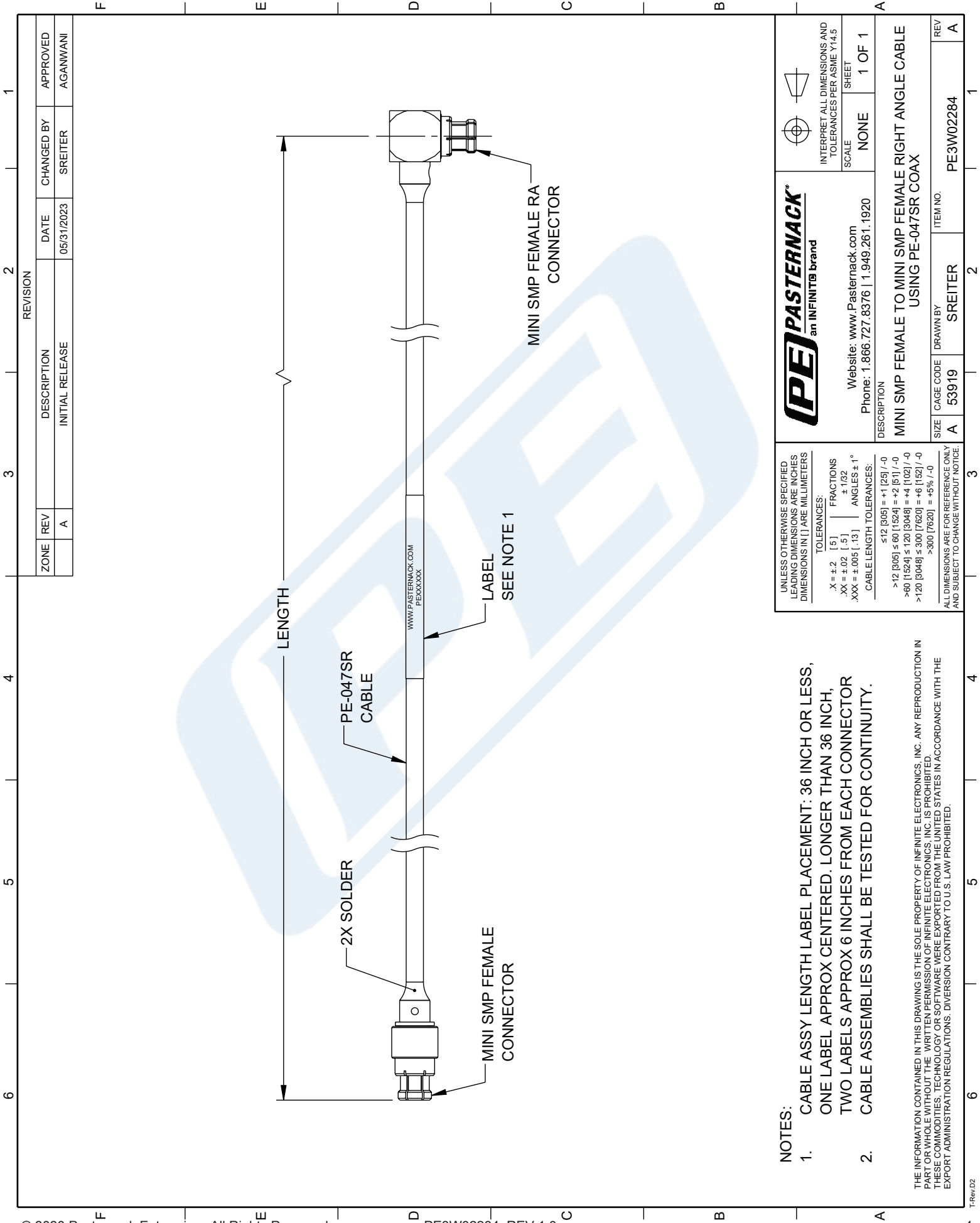
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female to Mini SMP Female Right Angle Cable Using PE-047SR Coax PE3W02284](#)

URL: <https://www.pasternack.com/mini-smp-female-to-mini-smp-female-cable-using-pe-047sr-pe3w02284-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.

PE3W02284 CAD Drawing

Mini SMP Female to Mini SMP Female Right Angle Cable Using PE-047SR Coax



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR
2. CABLE 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

MINI SMP FEMALE TO MINI SMP FEMALE RIGHT ANGLE CABLE
USING PE-047SR COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	SREITER	PE3W02284	A

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

TOLERANCES:

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

CABLE LENGTH TOLERANCES:

≤12 [305]	±.1 [25]	/ -0	
>12 [305]	±.15 [4]	/ -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.