



SMA Female to SMA Female Cable Using PE-047SR Coax

TECHNICAL DATA SHEET

PE3758

Configuration

- Connector 1: SMA Female
- Connector 2: SMA Female
- Cable Type: PE-047SR
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3758 SMA female to SMA female 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 SMA to SMA cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3758 SMA female to SMA female cable assembly operates to 18 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.5:1	
Dielectric Withstanding Voltage (AC)			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.4	0.5	0.75	1.2	1.7	dB/ft
	1.31	1.64	2.46	3.94	5.58	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to SMA Female Cable Using PE-047SR Coax PE3758](#)



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Mechanical Specifications

Cable Assembly

Weight 0.013 lbs [5.9 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
 Outer Conductor Material and Plating Copper

Repeated Minimum Bend Radius 0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Female Threaded	SMA Female Threaded
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	Brass, Gold	Brass, 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:

- Values at 25°C, sea level.

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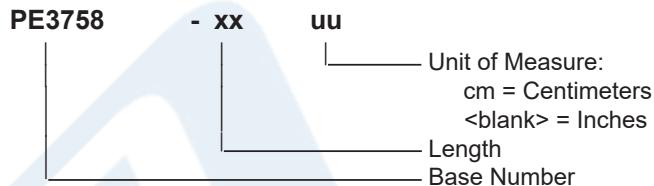
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How to Order

Part Number Configuration:



Example: PE3758-12 = 12 inches long cable
PE3758-100cm = 100 cm long cable

SMA Female to SMA Female 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: [SMA Female to SMA Female Cable Using PE-047SR Coax PE3758](#)

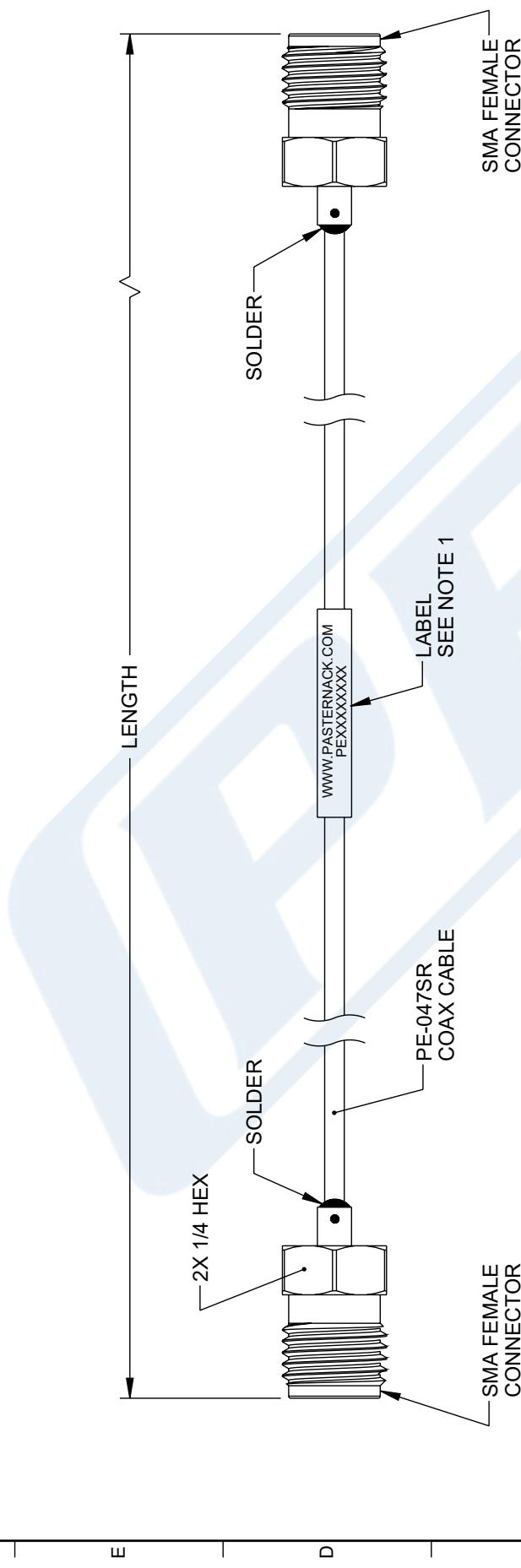
URL: <https://www.pasternack.com/sma-female-sma-female-pe-047sr-cable-assembly-pe3758-p.aspx>

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.

PE3758 CAD Drawing

SMA Female to SMA Female Cable Using PE-047SR Coax

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	4/11/2023	KDANG	AGANWANI



NOTES:

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

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

TOLERANCES:

$X \pm .2$	[.5]	FRACTIONS
$.XX \pm .02$	[.5]	$\pm 1/32$
$XXX \pm .005$	[.13]	ANGLES $\pm 1^\circ$

CABLE LENGTH TOLERANCES:

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5
SCALE

SHEET

None

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Website: www.Pasternak.com
Phone: 1.866.727.8376 | 1.949.261.1920

SCALE LENGTH IN MILLIMETERS		DESCRIPTION	
SMA Female to SMA Female Cable Using PE-047SR Coax		SMA Female to SMA Female Cable Using PE-047SR Coax	
<12 [305]	≤ 60 [1524]	+1 [25] / -0	\$12 [305] =
>12 [305]	≤ 60 [1524]	+2 [51] / -0	+1 [25] / -0
>60 [1524]	≤ 120 [3048]	+2 [51] / -0	+2 [51] / -0
>120 [3048]	≤ 120 [3048]	+4 [102] / -0	+4 [102] / -0
>120 [3048]	≤ 300 [7620]	+6 [152] / -0	+6 [152] / -0
>300 [7620]	=	+6% / -0	+6% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.		DRAWN BY	REV
SIZE	CAGE CODE	ITEM NO.	A
A	53919	KDANG	PE3758