



SMA Male to SMA Male Cable Using PE-SR047FL Coax

TECHNICAL DATA SHEET

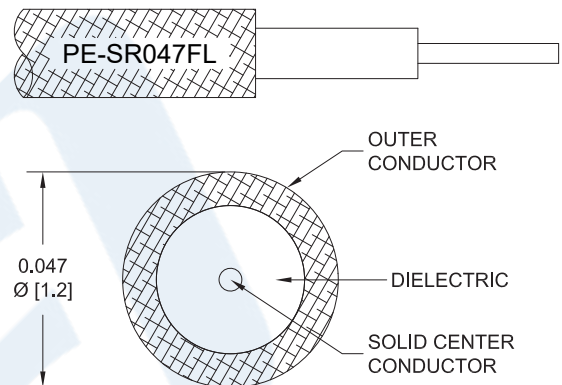
PE3C1894

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-SR047FL
- Coax Flex Type: Formable

Features

- Max Frequency 18 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1894 SMA male to SMA male cable using PE-SR047FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR047FL coax. The PE3C1894 SMA male to SMA male 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Cable Using PE-SR047FL Coax PE3C1894](#)



SMA Male to SMA Male Cable Using PE-SR047FL Coax

TECHNICAL DATA SHEET

PE3C1894

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Capacitance		32 [104.99]		pF/ft [pF/m]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	#####	MHz	
PE3C1894	Custom Lengths Available	Insertion Loss (Typ.)	0.36	0.5	0.8	1.19	1.8	dB/ft	
			1.19	1.65	2.63	3.91	5.91	dB/m	
PE3C1894-6	6 inch	Insertion Loss (Typ.)	0.38	0.45	0.6	0.8	1.1	dB	0.018
PE3C1894-9	9 inch	Insertion Loss (Typ.)	0.47	0.58	0.8	1.1	1.55	dB	0.019
PE3C1894-12	12 inch	Insertion Loss (Typ.)	0.56	0.7	1	1.39	2	dB	0.019
PE3C1894-24	24 inch	Insertion Loss (Typ.)	0.92	1.2	1.8	2.58	3.8	dB	0.022
PE3C1894-36	36 inch	Insertion Loss (Typ.)	1.28	1.7	2.6	3.77	5.6	dB	0.025

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: 0.019 pounds

Additional Weight per Inch: 0.00025 pounds

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Weight 0.019 lbs [8.62 g]

Cable

Cable Type	PE-SR047FL
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	Tinned Copper Braid
Jacket Diameter	0.047 in [1.19 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Cable Using PE-SR047FL Coax PE3C1894](#)



SMA Male to SMA Male Cable Using PE-SR047FL Coax

TECHNICAL DATA SHEET

PE3C1894

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Threaded	SMA Male 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	50μ in. minimum	50μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	50μ in. minimum	50μ in. minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	50μ in. minimum	50μ in. minimum
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs [0.57 Nm]	5 in-lbs [0.57 Nm]

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Cable Using PE-SR047FL Coax PE3C1894](#)



SMA Male to SMA Male Cable Using PE-SR047FL Coax

TECHNICAL DATA SHEET

PE3C1894

How to Order

Part Number Configuration:

PE3C1894

- **xx**

uu

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

Example: PE3C1894-12 = 12 inches long cable
PE3C1894-100cm = 100 cm long cable

SMA Male to SMA Male Cable Using PE-SR047FL 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 Male to SMA Male Cable Using PE-SR047FL Coax PE3C1894](https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-sr047fl-pe3c1894-p.aspx)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-sr047fl-pe3c1894-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.

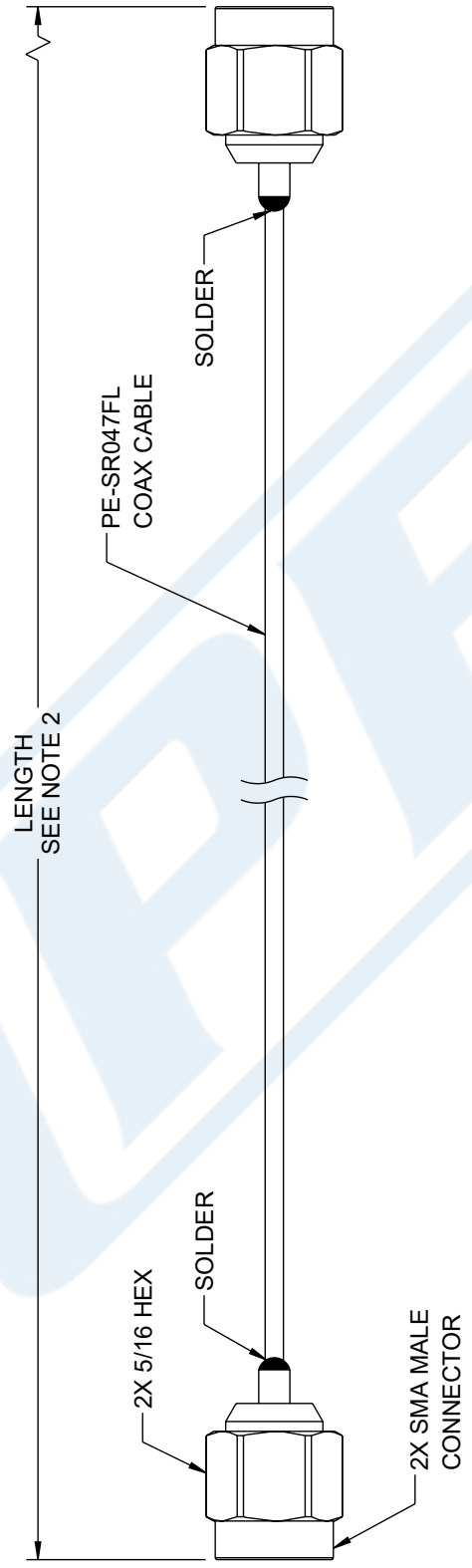
PE3C1894 CAD Drawing

SMA Male to SMA Male Cable Using PE-SR047FL Coax

F E D C B A


6 5 4 3 2 1

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



NOTES:

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



PASTERNAK
an INFINITI® brand

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

UNLESS OTHERWISE SPECIFIED, LEAD DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
X = ±.2 [5]
XX = ±.02 [0.5]
XXX = ±.005 [0.13]

FRACTIONS
± 1/32

ANGLES ± 1°

CABLE LENGTH TOLERANCES:
>12 [305] ≤ 512 [1295] = ±.125 [-0]
>512 [1295] ≤ 1200 [3048] = ±.25 [-0]
>1200 [3048] ≤ 3000 [7620] = ±.5 [-0]
>3000 [7620] = ±.75 [-0]

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE

SHEET 1 OF 1

DESCRIPTION
SMA MALE TO SMA MALE CABLE USING PE-SR047FL COAX

SIZE A

CAGE CODE 53919

DRAWN BY HBAKKE

ITEM NO. PE3C1894

REV A

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.