



## SMA Male to Straight Cut Lead Test Probe Cable 12 Inch Length Using PE-SR047FL Coax

### RF Cable Assemblies Technical Data Sheet

PE3C8138-12

#### Configuration

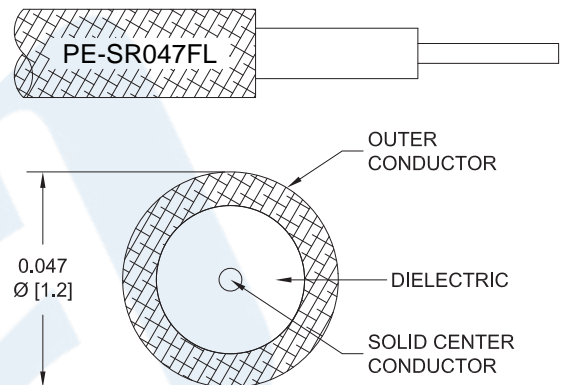
- Connector 1: SMA Male
- Connector 2: Straight Cut Lead
- Cable Type: PE-SR047FL

#### Features

- Max Frequency 20 GHz
- 69.5% Phase Velocity
- 100% RF Tested prior to final trim
- 1.4 Max VSWR to 20 GHz
- 100% High Pot Tested to 500V
- 0.047 Diameter Formable coax
- Individually packed in protective tube

#### Applications

- General Purpose
- Test & Measurement
- Laboratory Use
- Used as an RF Test Probe to 20 GHz
- RF PCB Board Measurements
- Signal Injection



#### Description

Pasternack's PE3C8138-12 50 ohm SMA Male to straight cut cable using PE-SR047FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable cable assemblies provide a convenient alternative to their semi-rigid versions, as they offer similar electrical performance but can be bent to desired shape without the use of special tools.

These SMA Male to unterminated flush cut cable assemblies are designed to be used as convenient test probes. The unterminated end of the cable can be trimmed by the user to their desired dimensions. A common research and development application is to solder the trimmed end of the cable to an exposed microstrip trace to inject a signal or to measure a signal of interest. Each cable assembly is individually packaged in a reusable protective tube. These test probes have been 100% RF tested as a two-ended assembly prior to trimming to verify the assembly's performance to 20 GHz with a maximum VSWR of 1.4:1. Pre-Trimmed Test Probes are also available.

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 Straight Cut Lead Test Probe Cable 12 Inch Length Using PE-SR047FL Coax PE3C8138-12](#)



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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		20	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		32 [104.99]		pF/ft [pF/m]
DC Resistance Inner Conductor		207 [679.13]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		8 [26.25]		$\Omega$ /1000ft [ $\Omega$ /Km]

**Mechanical Specifications**

**Cable Assembly**

Length\* 12 in [304.8 mm]

**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  
 Outer Conductor Material and Plating Tinned Copper Braid

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	Straight Cut Lead
Impedance	50 Ohms	
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	
Contact Plating Specification	MIL-G-45204	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Gold	
Body Plating Specification	MIL-G-45204	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	ASTM-A380	
Hex Size	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	

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

#### Plotted and Other Data

Notes:

#### How to Order

Part Number Configuration:

**PE3C8138 - xx uu**

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

Example: PE3C8138-12 = 12 inches long cable  
PE3C8138-100cm = 100 cm long cable

SMA Male to Straight Cut Lead Test Probe Cable 12 Inch Length 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.

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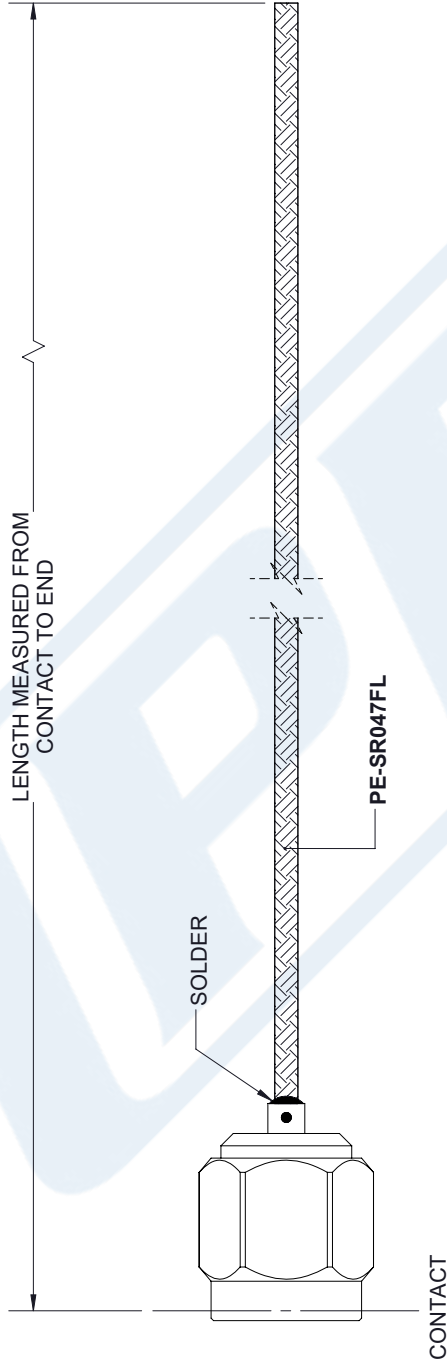
URL: <https://www.pasternack.com/sma-male-straight-cut-sexless-pe-sr047fl-cable-assembly-pe3c8138-12-p.aspx>

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.

# PE3C8138-12 CAD Drawing

SMA Male to Straight Cut Lead Test Probe Cable 12 Inch Length Using PE-SR047FL Coax

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	5/6/2021
		APPROVED
		S. ELLIS



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

TOLERANCES:

.X = ±.2	[5.08]	FRACTIONS	
.XX = ±.02	[.51]		± 1/32
.XXX = ±.005	[.13]	ANGLES ± 1°	

CABLE LENGTH (L) TOLERANCES:

L ≤ 12	[305]	= +1 [25] / -0
12 [305] < L ≤ 60	[1524]	= +2 [51] / -0
60 [1524] < L ≤ 120	[3048]	= +4 [102] / -0
120 [3048] < L ≤ 300	[7620]	= +6 [152] / -0
300 [7620] < L ≤ ∞		= +5% / L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
an INFINITO brand

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SIZE A CAGE CODE A 53919 DRAWN BY K. DANG ITEM NO. PE3C8138

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A