

Pigtail Test Probe Cable SMA Female to Straight Cut Lead Using PE-SR047TN, RoHS



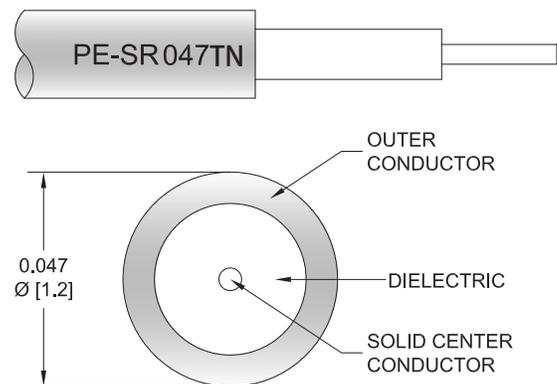
PE3CA1103

Configuration

- Connector 1: SMA Female
- Connector 2: Straight Cut Lead
- Cable Type: PE-SR047TN
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 6 GHz
- Copper Jacket
- 100% RF tested prior to final trim
- 1.35 Max VSWR to 6 GHz
- 100% high pot tested to 500V
- .047 Diameter Semi Rigid coax
- Individually packed in protective tube



Applications

- General Purpose
- Laboratory Use
- Used as an RF test probe to 6 GHz
- RF PCB board measurements
- Signal injection

Description

Pasternack's PE3CA1103 50 ohm SMA female to straight cut lead cable using tinned 047 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. The PE3CA1103 SMA female to straight cut lead cable assembly operates to 6 GHz. These SMA Female to unterminated flush cut cables 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 in order to verify the assemblies perform to 6 GHz with a maximum VSWR of 1.35:1. 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.35:1	
Operating Voltage (DC)			500	Vdc

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	6				GHz

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Insertion Loss (Typ.)	0.34	0.79				dB/ft
	1.12	2.59				dB/m
VSWR (Max.)	1.35:1	1.35:1				

Mechanical Specifications

Cable Assembly

Weight 0.03 lbs [13.61 g]

Cable

Cable Type PE-SR047TN
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Jacket Material Copper
 Jacket Diameter 0.047 in [1.19 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Female	Straight Cut Lead
Impedance	50 Ohms	0 Ohms
Configuration	Straight	Straight
Outer Conductor Material and Plating	Brass, Gold	
Body Material and Plating	Brass, Gold	

Environmental Specifications

Operating Range Temperature +125 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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PE3CA1103

Typical Performance Data

How to Order

Part Number Configuration:

PE3CA1103

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3CA1103-12 = 12 inches long cable
PE3CA1103-100cm = 100 cm long cable

Pigtail Test Probe Cable SMA Female to Straight Cut Lead Using PE-SR047TN, RoHS 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: [Pigtail Test Probe Cable SMA Female to Straight Cut Lead Using PE-SR047TN, RoHS PE3CA1103](#)

URL: <https://www.pasternack.com/sma-female-unterminated-lead-sexless-pe-047sr-cable-assembly-pe3ca1103-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3CA1103 CAD Drawing

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