

Test Probe Pigtail SMA Female to Straight Cut Lead Cable .047 Coax

The 50 ohm pigtail SMA female to straight cut lead cable using .047 coax, part number FMCA1183, from Fairview Microwave is in-stock and ships same day. Fairview Microwave'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 FMCA1183 SMA female to straight cut lead cable assembly operates to 6 GHz. Fairview's semi-rigid test probes are convenient ready-to-use probes designed for use in testing microwave circuits. These probes are constructed of high quality semi-rigid coax and SMA Female connectors. The assemblies come in multiple cable diameters to help when attaching two very fine traces or into tight spaces. There are two versions including straight-cut probe ends for those that would like to customize the dimensions of the center conductor and dielectric dimensions as well as pre-stripped probe ends that are ready for immediate use. Each assembly has been RF tested to ensure VSWR specifications of the assembly are met prior to trimming. Each assembly comes in special packaging to protect the small diameter coax and pre-trimmed probe ends.

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 RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|------------------------|-----|-----|--------|-------|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.35:1 | |
| Operating Voltage (AC) | | | 500 | Vrms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|--------|--------|----|----|----|-------|
| Frequency | 1 | 6 | | | | GHz |
| 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

Length* 0 in [0 mm]

Cable

Cable Type FM-SR047CUTN
 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, Tin
 Outer Conductor Diameter 0.047 in [1.19 mm]



Configuration:

- SMA Female
- Straight Cut Lead
- FM-SR047CUTN

Features:

- Max Frequency 6 GHz
- 100% RF Tested Prior to Final Trim
- 1.35:1 Max VSWR to 6 GHz
- 100% High Pot Tested to 500V
- .047 Diameter Semi-Rigid Coax
- Individually Packed in Protective Tube

Applications:

- General Purpose
- Test & Measurement
- Laboratory Use
- RF test lead for measurements up to 6GHz
- Testing of individual function or subsection of an RF circuit board
- Inject signals for test and verification

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Connectors

| Description | Connector 1 | Connector 2 |
|-------------------------------|-------------|-------------------|
| Type | SMA Female | Straight Cut Lead |
| Impedance | 50 Ohms | 0 Ohms |
| Outer Cond Material & Plating | Brass, Gold | |
| Body Material & Plating | Brass, Gold | |

Environmental Specifications
Temperature

Operating Range

+125 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA1183 - xx uu

 cm = Centimeters
 <blank> = Inches

Length

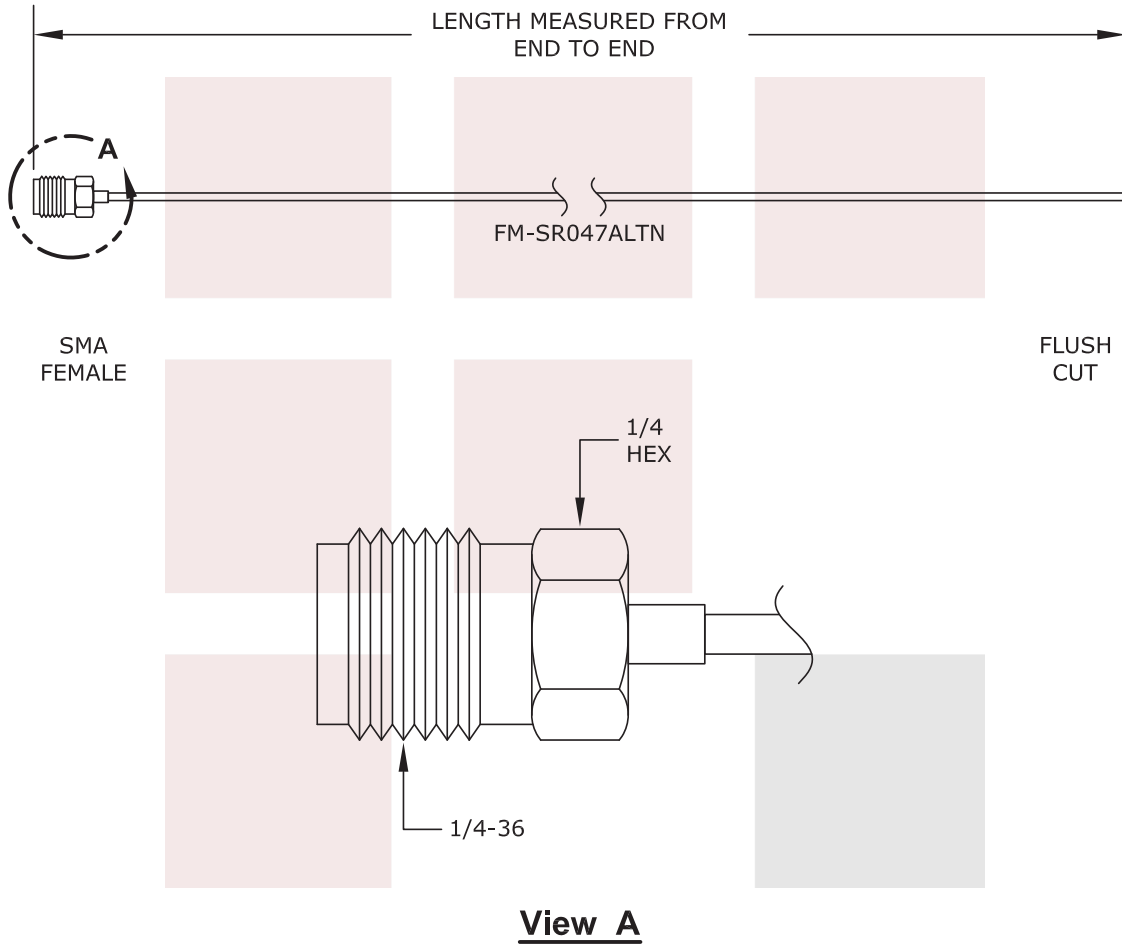
 Example: FMCA1183-12 = 12 inches long cable
 FMCA1183-100cm = 100 cm long cable

Test Probe Pigtail SMA Female to Straight Cut Lead Cable .047 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Test Probe Pigtail SMA Female to Straight Cut Lead Cable .047 Coax FMCA1183](#)

URL: <https://www.fairviewmicrowave.com/test-probe-pigtail-sma-female-straight-cut-lead-cable-.047-coax-fmca1183-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



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|---|--------|---|-------|--------------------|-------------|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | | | |
| TITLE Test Probe Pigtail SMA Female to Straight Cut Lead Cable .047 Coax | | DWG NO FMCA1183 | | CAGE CODE 3FKR5 | |
| CAD FILE | 011916 | SHEET | SCALE | N/A | SIZE A 2233 |