

## Test Probe SMA Male to Straight Cut Lead Cable FM-SR047TB Coax in 3 Inch

The 50 ohm SMA Male to straight cut lead cable using FM-SR047TB coax, part number FMCA2391-3, from Fairview Microwave is in-stock and ships same day. Fairview Microwave'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.

Fairview's hand formable test probes are convenient ready-to-use probes designed for use in testing microwave circuits. These probes are constructed of high quality hand formable coax and a SMA Male connector. 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 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 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                   | Min | Typ      | Max   | 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\* 3 in [76.2 mm]

#### Cable

Cable Type FM-SR047TB  
 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



### Configuration:

- SMA Male
- Straight Cut Lead
- FM-SR047TB

### 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
- RF Test Lead for Measurements up to 20 GHz/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 Male                           | Straight Cut Lead |
| Impedance                       | 50 Ohms                            |                   |
| Mating Cycles                   | 500                                |                   |
| Contact Material & Plating      | Beryllium Copper, Gold over Nickel |                   |
| Contact Plating Spec.           | MIL-G-45204                        |                   |
| Dielectric Type                 | PTFE                               |                   |
| Body Material & Plating         | Brass, Gold                        |                   |
| Body Plating Spec.              | MIL-G-45204                        |                   |
| Coupling Nut Material & Plating | Passivated Stainless Steel         |                   |
| Coupling Nut Plating Spec.      | ASTM-A380                          |                   |
| Hex Size                        | 5/16 inch                          |                   |
| Torque                          | 8 in-lbs 0.9 Nm                    |                   |

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMCA2391 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMCA2391-12 = 12 inches long cable  
 FMCA2391-100cm = 100 cm long cable

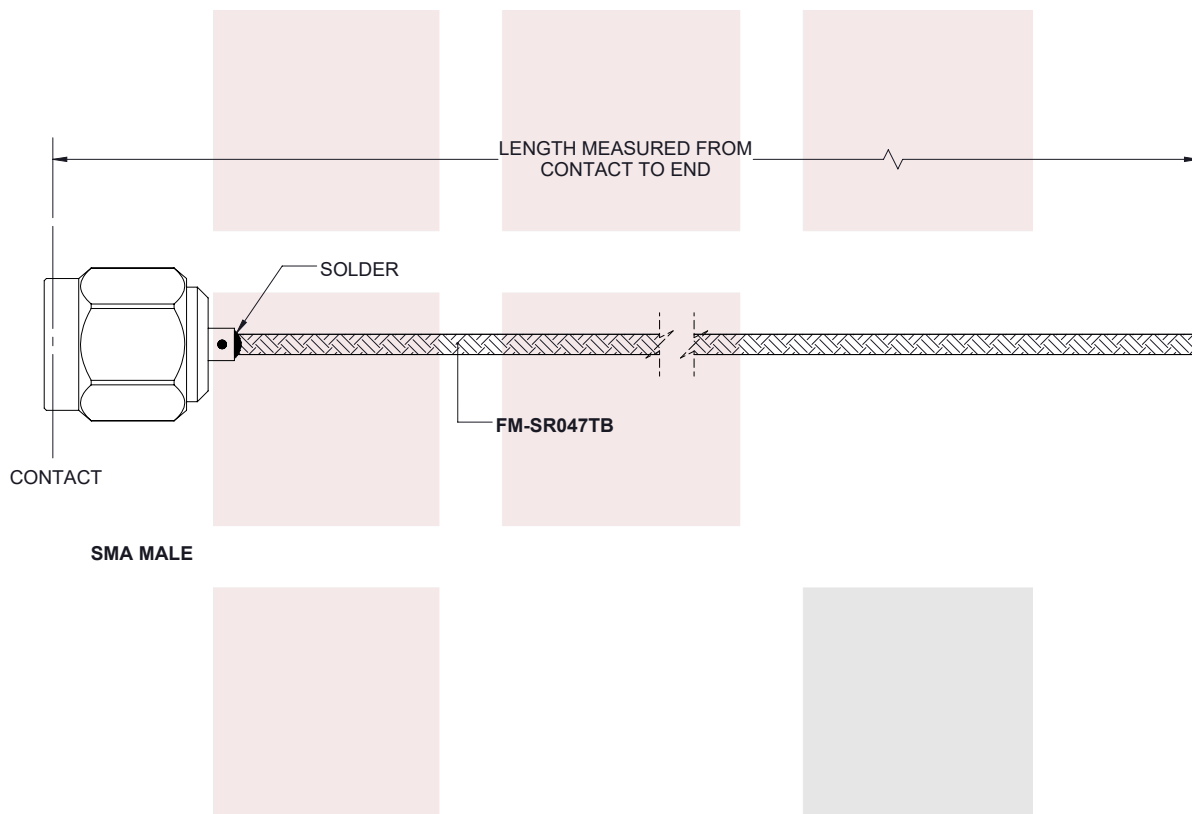
Test Probe SMA Male to Straight Cut Lead Cable FM-SR047TB Coax in 3 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Test Probe SMA Male to Straight Cut Lead Cable FM-SR047TB Coax in 3 Inch FMCA2391-3](#)

URL: <https://www.fairviewmicrowave.com/test-probe-sma-male-straight-cut-lead-cable-fm-sr047tb-coax-fmca2391-3-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.

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



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|---------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------|--|
| <p><b>Fairview Microwave</b><br/>an INFINIT® brand</p>                          |  | <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</p> |  | <p>THIRD-ANGLE PROJECTION</p>                                                                                              |  |
| <p>TITLE</p>                                                                    |  | <p>TOLERANCES:</p>                                                                                    |  | <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> |  |
| <p>Test Probe SMA Male to Straight Cut Lead Cable FM-SR047TB Coax in 3 Inch</p> |  | <p>CABLE LENGTH (L) TOLERANCES:</p>                                                                   |  | <p>SHEET 1 OF 1</p>                                                                                                        |  |
| <p>SIZE A</p>                                                                   |  | <p>CAGE CODE 3FKR5</p>                                                                                |  | <p>SCALE N/A</p>                                                                                                           |  |
| <p>DRAWN BY K.DANG</p>                                                          |  | <p>ITEM NO. FMCA2391</p>                                                                              |  | <p>REV A</p>                                                                                                               |  |

T-Rev.D