

Hand Formable Test Probe SMA Male to Straight Cut Lead Cable  
Assembly using LC047TB Coax, Gold Plated Brass Body, 3 IN



**LCCA30714-3IN**

**Configuration**

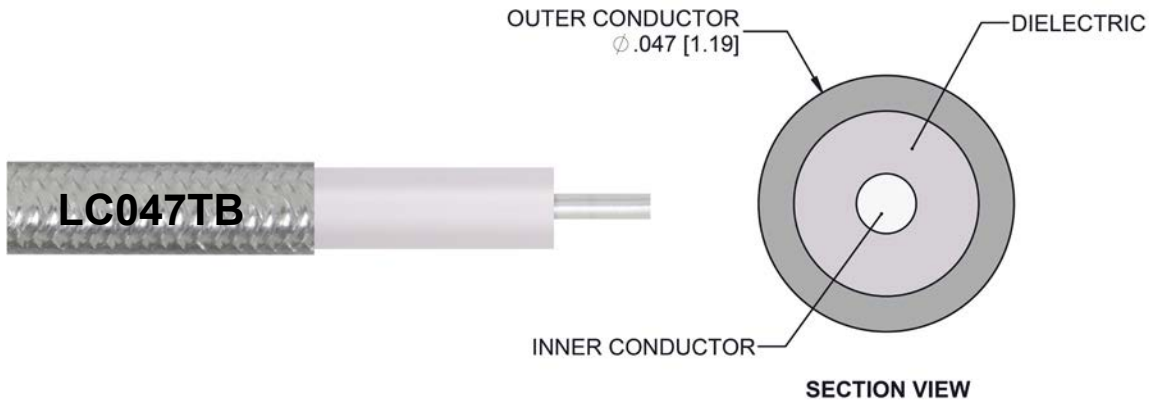
- Connector 1: SMA Male
- Connector 2: Straight Cut Lead
- Cable Type: LC047TB

**Features**

- 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**

- Used as an RF Test Probe to 20 GHz
- RF PCB Board Measurements
- Signal Injection



**Description**

L-com's LCCA30714-3IN is a Test Probe SMA Male to Straight Cut Lead Cable Assembly using LC047TB Coax, 0.25 FT and ships same-day. L-com'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. Our L-com SMA to flush cut cable assembly has a Male to sexless gender configuration with formable LC047TB series coax and operates to 20 GHz. The tinned copper braid outer conductor can be easily formed by hand and has an overall diameter of 0.047 inches.

The Test Probe SMA Male to Straight Cut Lead Cable Assembly using LC047TB Coax, 0.25 FT is a convenient test probe designed to be trimmed by the user to their required dimensions and soldered to an exposed microstrip trace to inject a signal or to measure a signal of interest. Each LCCA30714-3IN cable assembly is built with a connector on both ends to verify the electrical performance of 20 GHz with a maximum VSWR of 1.4:1. The cable is then trimmed and placed in a reusable protective tube. These test probes are available with a flush cut or a pre-trimmed cable lead.

Custom versions of this SMA Male to straight cut lead cable, along with the rest of L-com's other RF assemblies, can also be built and shipped same day. Other available RF cable assembly value added services from L-com 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. Contact a sales representative for testing or custom RF cable quotes. Part number LCCA30714-3IN L-com Test Probe SMA Male to Straight Cut Lead Cable Assembly using LC047TB Coax, 0.25 FT data sheet PDF include details of the RF product specifications, CAD drawing(s) and dimensions below.

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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] |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 8 [26.25]    |         | Ohms/1000ft [Ohms/Km] |

### Mechanical Specifications

#### Cable Assembly

Length 3 in [76.2 mm]

#### Cable

Cable Type LC047TB  
 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

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## LCCA30714-3IN

### 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                    |                   |

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

### Plotted and Other Data

Notes:

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## LCCA30714-3IN

### How to Order

Part Number Configuration:

**LCCA30714 - xx uu**

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

Example: LCCA30714-12 = 12 inches long cable  
LCCA30714-100cm = 100 cm long cable

Hand Formable Test Probe SMA Male to Straight Cut Lead Cable Assembly using LC047TB Coax, Gold Plated Brass Body, 3 IN from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

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 impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.ontained 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 impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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## L-com CAD Drawing

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

**SMA MALE**

|  |  |   |
|--|--|---|
| <p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS.</p> <p><b>TOLERANCES:</b></p> <p>.X = ±.2 [5.08]      FRACTIONS ± 1/32<br/>         .XX = ±.02 [ .51]      ANGLES ± 1°<br/>         .XXX = ±.005 [ .13]</p> <p><b>CABLE LENGTH (L) TOLERANCES:</b></p> <p>L ≤ 12 [305] = +1 [25] / -0<br/>         12 [305] &lt; L ≤ 60 [1524] = +2 [61] / -0<br/>         60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0<br/>         120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0<br/>         300 [7620] &lt; L = +5%L / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> | <p><b>L-com™</b><br/> <b>an INFINITE brand</b></p> <p>50 High Street, West Mill, 3rd Floor, Suite #30<br/>         North Andover, MA 01845 USA.<br/>         Phone: 1.800.341.5266   1.978.682.6936<br/>         Fax: 1.978.689.9484<br/>         Website: www.L-com.com<br/>         E-mail: CustomerService@L-com.com</p> <p>SIZE A      CAGE CODE 43321      DRAWN BY K.DANG      ITEM NO. LCCA30714      REV. A</p> |
|--|--|---|

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