

SMA Male to SMA Male Cable Assembly using LC085TB Coax, 6 FT



LCCA30111-FT6

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: LC085TB

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.5% VoP
- Hand Formable
- Tin Filled Copper Composite Braid Outer Conductor

Applications

- General Purpose
- Laboratory Use
- System Interconnect



Description

L-com's LCCA30111-FT6 is a SMA male to SMA male cable assembly using LC085TB coax, 6 FT and ships same-day. The LC085TB coax of this SMA cable uses the PTFE dielectric with a VoP of 69.5%. These formable RF cable assemblies are a great alternative to expensive semi-rigid assemblies because they can be hand formed to fit specific designs. Our L-com SMA to SMA cable assembly has a male to male gender configuration with formable LC085TB series coax and operates to 18 GHz. The tinned copper composite braid outer conductor is easily formed by hand with an overall diameter of 0.085 inches and excellent shielding effectiveness greater than 100dB.

Custom versions of this SMA male to SMA male 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 LCCA30111-FT6 L-com SMA Male to SMA Male Cable Assembly using LC085TB Coax, 6 FT data sheet PDF includes 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 | | 18 | GHz |
| Velocity of Propagation | | 69.5 | | % |
| RF Shielding | 100 | | | dB |
| Capacitance | | 29 [95.14] | | pF/ft [pF/m] |
| DC Resistance Inner Conductor | | 65.7 [215.55] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 10.2 [33.46] | | Ohms/1000ft [Ohms/Km] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 1 | 2 | 4.5 | 9 | 18 | GHz |
| Insertion Loss (Max.) | 1.55 | 2.04 | 3.26 | 4.76 | 6.94 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|----------|--------------------|
| Length | 72 in [182.88 cm] |
| Diameter | 0.013 in [0.33 mm] |

Cable

| | |
|--------------------------------------|-------------------------------|
| Cable Type | LC085TB |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 0 |
| Outer Conductor Material and Plating | Tinned Copper Composite Braid |
| Outer Conductor Diameter | 0.085 in [2.16 mm] |
| Repeated Minimum Bend Radius | 0.78 in [19.81 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|----------------------------|----------------------------|
| Type | SMA Male | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold over Nickel | Brass, Gold over Nickel |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Gold over Nickel | Brass, Gold over Nickel |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Hex Size | 5/16 inch | 5/16 inch |
| Torque | 10 in-lbs 1.13 Nm | 10 in-lbs 1.13 Nm |

Environmental Specifications

Temperature

Operating Range -55 to +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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LCCA30111-FT6

How to Order

Part Number Configuration:

LCCA30111

- **xx**

uu

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

Example: LCCA30111-12 = 12 inches long cable
LCCA30111-100cm = 100 cm long cable

SMA Male to SMA Male Cable Assembly using LC085TB Coax, 6 FT 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 implement 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 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. 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.

SMA Male to SMA Male Cable Assembly using LC085TB Coax, 6 FT

L-com CAD Drawing

| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 01/31/2020 | SELLIS |

LENGTH MEASURED
FROM CONTACT TO CONTACT

LC085TB FORMABLE CABLE

SMA MALE

SMA MALE

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

TOLERANCES:

| | | |
|---------------------|------------------|-------------|
| .X = ±.2 [.508] | FRACTIONS ± 1/32 | ANGLES ± 1° |
| .XX = ±.02 [.51] | ± 1/64 | |
| .XXX = ±.005 [.13] | | |

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 = ±9% L / -0 | |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

NOTES:

- CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END, 6.0" FROM THE FRONT OF THE CONNECTOR.

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SIZE A CAGE CODE [DRAWN BY] PART NUMBER LCCA30111 REV A