

SMA Male Right Angle to N Male Right Angle Cable Assembly
using LC085TBJ Coax, 1 FT with HeatShrink



LCCA30610-FT1

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: LC085TBJ

Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.5% VoP
- Hand Formable
- Tin Filled Copper Composite Braid Outer Conductor
- FEP Jacket

Applications

- General Purpose
- Laboratory Use
- System Interconnect



Description

L-com's LCCA30610-FT1 is a SMA male right angle to N male right angle cable assembly using LC085TBJ coax, 1 FT with heatshrink and ships same-day. The LC085TBJ 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 N cable assembly has a male to male gender configuration with formable LC085TBJ series coax and operates to 10 GHz. The jacketed outer conductor is easily formed by hand with an overall diameter of 0.105 inches and excellent shielding effectiveness greater than 100dB. This right angle SMA and N cable interface on the LC085TBJ coax allows for easier connections in tight spaces.

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 LCCA30610-FT1 L-com SMA Male Right Angle to N Male Right Angle Cable Assembly using LC085TBJ Coax, 1 FT with HeatShrink 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		10	GHz
VSWR			1.45:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Typ.)	0.55	0.63	0.75	0.95	1.21	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 includes an estimated insertion loss of 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Length	12 in [304.8 mm]
Diameter	0.79 in [20.07 mm]
Weight	0.099 lbs [44.91 g]

Cable

Cable Type	LC085TBJ
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	FEP, Black
Jacket Diameter	0.105 in [2.67 mm]
One Time Minimum Bend Radius	0.236 in [5.99 mm]
Repeated Minimum Bend Radius	0.787 in [19.99 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	2μ in. minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	1μ in. minimum	
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Nickel
Hex Size	5/16 in.	
Torque	8 in-lbs 0.9 Nm	

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

Plotted and Other Data

Notes:

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LCCA30610-FT1

How to Order

Part Number Configuration:

LCCA30610

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: LCCA30610-12 = 12 inches long cable
LCCA30610-100cm = 100 cm long cable

SMA Male Right Angle to N Male Right Angle Cable Assembly using LC085TBJ Coax, 1 FT with HeatShrink 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 Right Angle to N Male Right Angle Cable Assembly using LC085TBJ Coax, 1 FT with HeatShrink

L-com CAD Drawing

REV. A

DESCRIPTION
INITIAL RELEASE

DATE
4/16/2020

APPROVED
S.ELLIS

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

TOLERANCES:

.X = ±.2 [5.08]

FRACTIONS
XX = ±.02 [.51]

ANGLES ± 1°
.XXX = ±.005 [.13]

CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = ±.125 [3.18]
12 [305] < L ≤ 60 [1524] = ±.25 [6.35]
60 [1524] < L ≤ 120 [3048] = ±.5 [12.7]
120 [3048] < L ≤ 300 [7620] = ±.6 [15.2]
300 [7620] < L = +5% L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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DESIGN IN THIS DOCUMENT
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SHEET 1 OF 1

SCALE N/A

L-com
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SIZE A CAGE CODE 43321 DRAWN BY K.DANG ITEM NO. LCCA30610

REV A

LENGTH MEASURED FROM
CONTACT TO CONTACT

2X
HEAT SHRINK SLEEVE

5/16 HEX

CONTACT

SMA MALE
RA

LC085TBJ

WWW.L-COM.COM
L-COM P/N
(SEE NOTE 1)

CONTACT
N MALE
RA

NOTES:

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

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