BNC Female to SMA Male Right Angle Cable Assembly using LC141TB Coax, 6 FT



LCCA30402-FT6

Configuration

- Connector 1: BNC Female
- Connector 2: SMA Male Right Angle
- Cable Type: LC141TB

Features

- Max Frequency 2 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.9% VoP
- Hand Formable
- Tin Filled Copper Braid Outer Conductor

Applications

- General Purpose
- Laboratory Use
- System Interconnect



SECTION VIEW

Description

L-com's LCCA30402-FT6 is a BNC female to SMA male right angle cable assembly using LC141TB coax, 6 FT and ships same-day. The LC141TB coax of this BNC 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 BNC to SMA cable assembly has a female to male gender configuration with formable LC141TB series coax and operates to 2 GHz. The tinned copper braid outer conductor is easily formed by hand with an overall diameter of inches and excellent shielding effectiveness greater than 110dB. This right angle SMA cable interface on the LC141TB coax allows for easier connections in tight spaces.

Custom versions of this BNC female to BNC 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 LCCA30402-FT6 L-com BNC Female to SMA Male Right Angle Cable Assembly using LC141TB Coax, 6 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

LCCA30402-FT6 REV 1.0 | © 2020 Infinite Electronics, Inc. L-com is a registered trademark of Infinite Electronics, Inc.

BNC Female to SMA Male Right Angle Cable Assembly using LC141TB Coax, 6 FT



LCCA30402-FT6

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2	GHz
VSWR			1.45:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2			GHz
Insertion Loss (Max.)	0.68	0.92	1.16			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 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length	72 in [182.88 cm]

Cable

Cable Type	LC141TB
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Outer Conductor Material and Plating	Tinned Copper Braid
Repeated Minimum Bend Radius	0.625 in [15.88 mm]

LCCA30402-FT6 REV 1.0 | © 2020 Infinite Electronics, Inc. L-com is a registered trademark of Infinite Electronics, Inc.

BNC Female to SMA Male Right Angle Cable Assembly using LC141TB Coax, 6 FT



LCCA30402-FT6

Connectors

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

LCCA30402-FT6 REV 1.0 | © 2020 Infinite Electronics, Inc. L-com is a registered trademark of Infinite Electronics, Inc.

BNC Female to SMA Male Right Angle Cable Assembly using LC141TB Coax, 6 FT



LCCA30402-FT6

How to Order

Part Number Configuration: **LCCA30402 - xx uu**

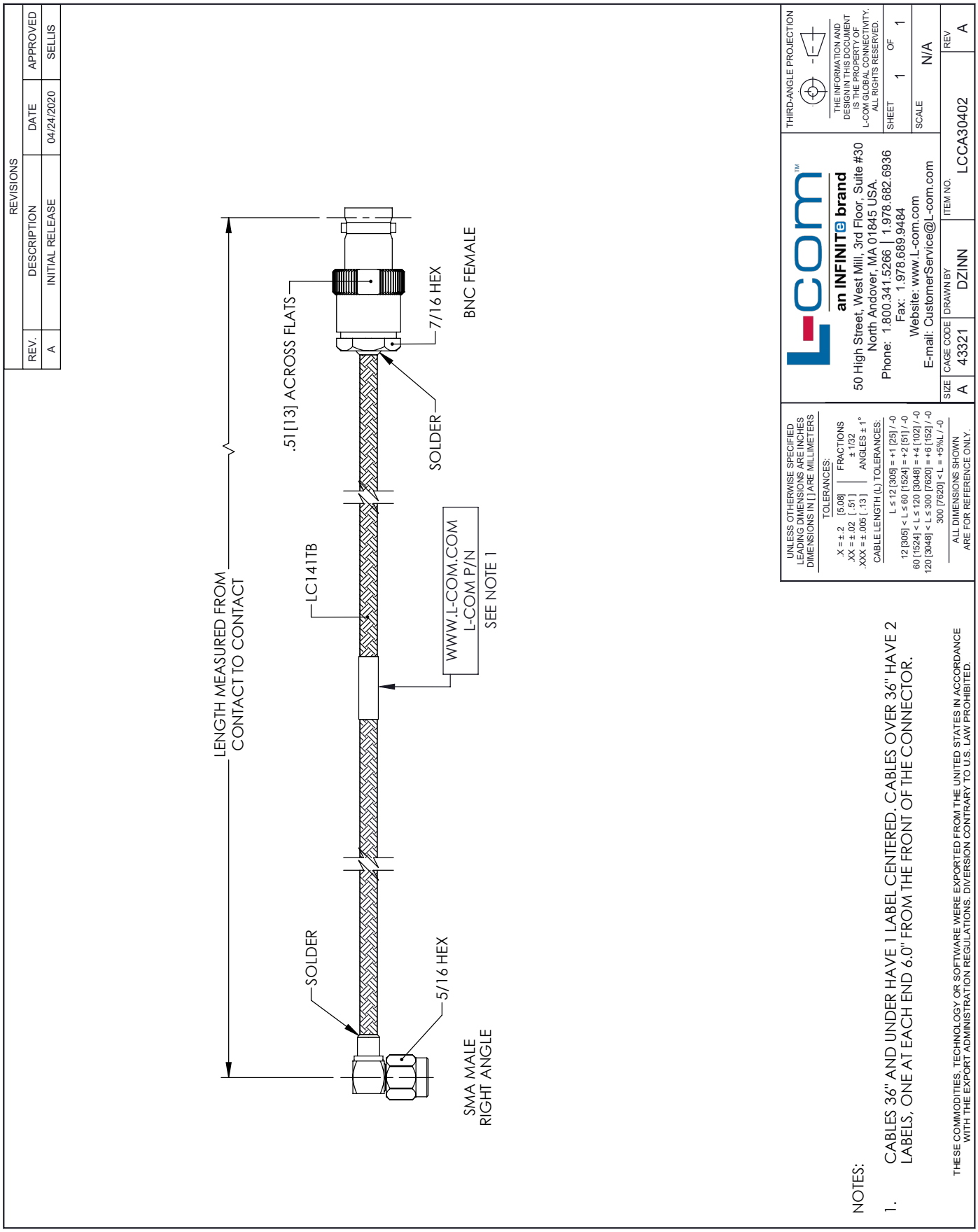
- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- LCCA30402 — Base Number

Example: LCCA30402-12 = 12 inches long cable
LCCA30402-100cm = 100 cm long cable

BNC Female to SMA Male Right Angle Cable Assembly using LC141TB 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 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.

L-com CAD Drawing



LCCA30402-FT6 REV 1.0 | © 2020 Infinite Electronics, Inc. L-com is a registered trademark of Infinite Electronics, Inc.