

N Male Right Angle to SMA Female Cable Assembly using LC141TB Coax, 5 FT

LCCA30416-FT5

Configuration

Connector 1: N Male Right AngleConnector 2: SMA Female

Cable Type: LC141TB

Features

• Max Frequency 10 GHz

Shielding Effectivity > 100dB

• PTFE Dielectric with 69.9% VoP

Applications

- · General Purpose
- Laboratory Use

- Hand Formable
- Tin Filled Copper Braid Outer Conductor
- · System Interconnect



Description

L-com's LCCA30416-FT5 is a N male right angle to SMA female cable assembly using LC141TB coax, 5 FT and ships same-day. The LC141TB coax of this N 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 N to SMA cable assembly has a male to female gender configuration with formable LC141TB series coax and operates to 10 GHz. The outer conductor is easily formed by hand with an overall diameter of inches and excellent shielding effectiveness greater than 110dB. This right angle N cable interface on the LC141TB coax allows for easier connections in tight spaces.

Custom versions of this N male to N female 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 LCCA30416-FT5 L-com N Male Right Angle to SMA Female Cable Assembly using LC141TB Coax, 5 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 | | 10 | 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 Con | ductor | 7.8 [25.59] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Cor | ductor | 5.5 [18.04] | | Ohms/1000ft [Ohms/Km] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-----|-----|------|------|------|-------|
| Frequency | 0.5 | 1 | 2.5 | 5 | 10 | GHz |
| Insertion Loss (Max.) | 0.6 | 0.8 | 1.12 | 1.65 | 2.45 | 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
 60 in [152.4 cm]

 Diameter
 0.79 in [20.07 mm]

Cable

Cable TypeLC141TBImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopper, Silver

Dielectric Type PTFE
Number of Shields 1

Shield Layer 1 Tinned Copper Braid

Repeated Minimum Bend Radius 0.625 in [15.88 mm]



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Connectors

| Connector 1 | Connector 2 |
|-------------------------|---|
| N Male Right Angle | SMA Female |
| 50 Ohms | 50 Ohms |
| Brass, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| PTFE | PTFE |
| Brass, Nickel | Brass, Gold over Nickel |
| Brass, Nickel | |
| | N Male Right Angle 50 Ohms Brass, Gold over Nickel PTFE Brass, Nickel |

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

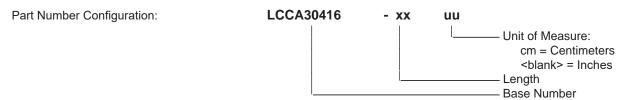
• Values at 25°C, sea level.



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How to Order



and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active

Example: LCCA30416-12 = 12 inches long cable LCCA30416-100cm = 100 cm long cable

N Male Right Angle to SMA Female Cable Assembly using LC141TB Coax, 5 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

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

