

## N Male to N Male Right Angle Cable Assembly using LC141TBJ Coax, 1 FT



### LCCA30098-FT1

#### Configuration

- Connector 1: N Male
- Connector 2: N Male Right Angle
- Cable Type: LC141TBJ
- Coax Flex Type: Formable

#### Features

- Max Frequency 8 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 70% VoP
- Hand Formable
- Tin Filled Copper Braid Outer Conductor
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use
- System Interconnect

#### Description

L-com's LCCA30098-FT1 is a N male to N male right angle cable assembly using LC141TBJ coax, 1 FT and ships same-day. The LC141TBJ coax of this N cable uses the PTFE dielectric with a VoP of 70%. 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 N cable assembly has a male to male gender configuration with formable LC141TBJ series coax and operates to 8 GHz. The jacketed tinned copper braid outer conductor is easily formed by hand with an overall diameter of 0.161 inches and excellent shielding effectiveness greater than 100dB. This right angle N cable interface on the LC141TBJ coax allows for easier connections in tight spaces.

Custom versions of this N male to N 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 LCCA30098-FT1 L-com N Male to N Male Right Angle Cable Assembly using LC141TBJ Coax, 1 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Velocity of Propagation		70		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.23 [27]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			1,900	Vrms

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**LCCA30098-FT1**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Dielectric Withstanding Voltage (AC)			3,000	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	8	GHz
Insertion Loss (Max.)	0.39	0.43	0.48	0.58	0.72	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 straight connector and 0.2 dB per right angle connector.

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.032 in [0.81 mm]
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**Cable**

Cable Type	LC141TBJ
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	0
Outer Conductor 1 Material and Plating	Tinned Copper Braid
Outer Conductor Diameter	0.139 in [3.53 mm]
Jacket Material	FEP
Jacket Diameter	0.161 in [4.09 mm]
One Time Minimum Bend Radius	0.315 in [8 mm]
Repeated Minimum Bend Radius	1.575 in [40.01 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	N Male	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel

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### **LCCA30098-FT1**

#### **Environmental Specifications**

Operating Range Temperature -65 to +150 deg C

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

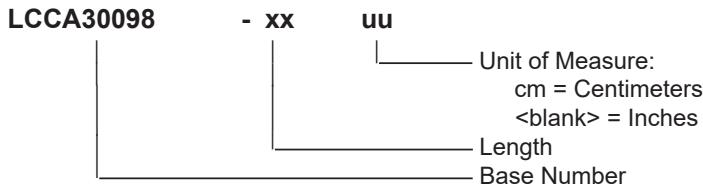
#### **Plotted and Other Data**

Notes:  
Values at 25°C, sea level.

#### **Typical Performance Data**

#### **How to Order**

Part Number Configuration:



Example: LCCA30098-12 = 12 inches long cable  
LCCA30098-100cm = 100 cm long cable

N Male to N Male Right Angle Cable Assembly using LC141TBJ Coax, 1 FT from L-com has same day shipment for domestic and International orders. 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.

URL: <https://www.l-com.com/n-male-n-male-right-angle-cable-assembly-using-lc141tbj-coax-1-ft-lcca30098-ft1-p.aspx>

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# LCCA30098-FT1 CAD Drawing

N Male to N Male Right Angle Cable Assembly using LC141TBJ Coax, 1 FT

