



## LCCA9961

### Configuration

Connector 1: N Male
Connector 2: SMA Male
Cable Type: LMR-400-UF
Coax Flex Type: Flexible

## **Description**

L-com's LCCA9961 is a low loss N male to SMA male cable assembly using LMR-400-UF coax with Times Microwave components with heatshrink and ships same-day. The LMR-400-UF coax of this N cable uses the PE (F) dielectric with a VoP of 85%, resulting in very low insertion loss compared to solid dielectrics. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com N to SMA cable assembly has a male to male gender configuration with flexible LMR-400-UF series coax and operates to 5.8 GHz. The double shield of this N cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB.

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 LCCA9961 L-com Low Loss N Male to SMA Male Cable Assembly using LMR-400-UF Coax With Times Microwave Components with HeatShrink 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		5.8	GHz
VSWR			1.5:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.07 [3.51]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms
Input Power (Peak)			16	KWatts

## Specifications by Frequency





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Part Number Length	Longth	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
	Frequency	250	500	1000	2500	5800	MHz	weight (ms)	
LCCA9961	Custom Lengths	Insertion Loss (Typ.)	0.023	0.034	0.049	0.081	0.13	dB/ft	
ECCA9901	Available	insertion Loss (Typ.)	0.08	0.12	0.17	0.27	0.43	dB/m	
LCCA9961-FT1	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.25	0.29	0.33	dB	0.239
LCCA9961-FT2	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.37	0.46	dB	0.326
LCCA9961-FT3	36 inch	Insertion Loss (Typ.)	0.27	0.31	0.35	0.45	0.59	dB	0.413
LCCA9961-FT5	60 inch	Insertion Loss (Typ.)	0.32	0.37	0.45	0.61	0.85	dB	0.587
LCCA9961-FT25	300 inch	Insertion Loss (Typ.)	0.78	1.05	1.43	2.23	3.45	dB	2.327

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

LMR-400-UF

Stranded

Copper

PE(F)

Loss due to Connector 1: 0.1 dB Loss due to Connector 2: 0.1 dB Base Weight: 0.239 pounds Additional Weight per Inch: 0.00725 pounds

### **Mechanical Specifications**

### **Cable Assembly**

Width/Diameter 0.5 in [12.7 mm] Weight 0.239 lbs [108.41 g]

### Cable

Cable Type Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1 Aluminum Tape Shield Layer 2 Tinned Copper Braid Jacket Material **TPE** Jacket Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius 1 in [25.4 mm] Repeated Minimum Bend Radius

4 in [101.6 mm] **Bending Moment** 0.38 lbs-ft [0.52 N-m] Flat Plate Crush 20 lbs/in [0.36 Kg/mm] Tensile Strength 160 lbs [72.57 Kg]





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### **Connectors**

Description	Connector 1	Connector 2
Туре	N Male	SMA Male
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μin. minimum	50µin. minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	150 μin. minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	150 μin. minimum	
Hex Size	13/16 inch	

## **Environmental Specifications**

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:

Values at 25°C, sea level.





## LCCA9961

## **Typical Performance Data**

#### **How to Order**

Part Number Configuration:

LCCA9961 - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
<br/>
Length
Base Number

Example: LCCA9961-12 = 12 inches long cable

LCCA9961-100cm = 100 cm long cable

Low Loss N Male to SMA Male Cable Assembly using LMR-400-UF Coax With Times Microwave Components with HeatShrink 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-sma-male-cable-assembly-invalid-lcca9961-p.aspx

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.

# **LCCA9961 CAD Drawing**

Low Loss N Male to SMA Male Cable Assembly using LMR-400-UF Coax With Times Microwave Components with HeatShrink

