



LCCA9953

Configuration

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

Description

L-com's LCCA9953 is a low loss N female to N 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 N cable assembly has a female 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 female 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 LCCA9953 L-com Low Loss N Female to N 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	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Nulliber	Lengui	Frequency	250	500	1000	2500	5800	MHz	weight (ms)
LCCA9953	Custom Lengths	Insertion Loss (Typ.)	0.023	0.034	0.049	0.081	0.13	dB/ft	
ECCA3333	Available	ilisertion Loss (Typ.)	0.08	0.12	0.17	0.27	0.43	dB/m	
LCCA9953-FT1	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.25	0.29	0.33	dB	0.276
LCCA9953-FT2	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.37	0.46	dB	0.363
LCCA9953-FT3	36 inch	Insertion Loss (Typ.)	0.27	0.31	0.35	0.45	0.59	dB	0.45
LCCA9953-FT5	60 inch	Insertion Loss (Typ.)	0.32	0.37	0.45	0.61	0.85	dB	0.624
LCCA9953-FT25	300 inch	Insertion Loss (Typ.)	0.78	1.05	1.43	2.23	3.45	dB	2.364

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.

Loss due to Connector 1:0.1 dBLoss due to Connector 2:0.1 dBBase Weight:0.276 poundsAdditional Weight per Inch:0.00725 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.276 lbs [125.19 g]

Cable

Cable Type
Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1 Shield Layer 2 Jacket Material

Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment Flat Plate Crush Tensile Strength LMR-400-UF

Stranded Copper PE (F)

Aluminum Tape Tinned Copper Braid

TPE

0.405 in [10.29 mm] 1 in [25.4 mm] 4 in [101.6 mm] 0.38 lbs-ft [0.52 N-m] 20 lbs/in [0.36 Kg/mm] 160 lbs [72.57 Kg]





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Connectors

Description	Connector 1	Connector 2
Туре	N Female	N Male
Specification	MIL-STD-348	
Configuration	Straight	Straight
Contact Material and Plating	Copper, Gold	Brass, Gold
Contact Plating Specification		50 μin. minimum
Dielectric Type	PTFE	PTFE
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.





LCCA9953

Typical Performance Data

How to Order

Part Number Configuration:

LCCA9953 - xx uu

Unit of Measure:
cm = Centimeters

chlank> = Inches

Length

Base Number

Example: LCCA9953-12 = 12 inches long cable

LCCA9953-100cm = 100 cm long cable

Low Loss N Female to N 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-female-n-male-cable-assembly-invalid-lcca9953-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.

LCCA9953 CAD Drawing

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

