

Low Loss SMA Male to N Male Cable Assembly using LMR-200-UF Coax With Times Microwave Components with HeatShrink



LCCA9884

Configuration

- Connector 1: SMA Male
- Connector 2: N Male
- Cable Type: LMR-200-UF
- Coax Flex Type: Flexible

Description

L-com's LCCA9884 is a low loss SMA male to N male cable assembly using LMR-200-UF coax with Times Microwave components with heatshrink and ships same-day. The LMR-200-UF coax of this SMA cable uses the PE (F) dielectric with a VoP of 83%, 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 SMA to N cable assembly has a male to male gender configuration with flexible LMR-200-UF series coax and operates to 5.8 GHz. The double shield of this SMA cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB.

Custom versions of this SMA male to SMA 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 LCCA9884 L-com Low Loss SMA Male to N Male Cable Assembly using LMR-200-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		83		%
RF Shielding	90			dB
Group Delay		1.22 [4]		ns/ft [ns/m]
Capacitance		24.5 [80.38]		pF/ft [pF/m]
Inductance		0.061 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.5 [24.61]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms
Input Power (Peak)			2.5	KWatts

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	250	500	1000	2500	5800	
LCCA9884	Custom Lengths Available	Insertion Loss (Typ.)	0.061	0.087	0.125	0.202	0.316	dB/ft	
			0.21	0.29	0.42	0.67	1.04	dB/m	
LCCA9884-12	12 inch	Insertion Loss (Typ.)	0.22	0.26	0.33	0.47	0.66	dB	0.142
LCCA9884-24	24 inch	Insertion Loss (Typ.)	0.28	0.35	0.45	0.67	0.98	dB	0.165
LCCA9884-36	36 inch	Insertion Loss (Typ.)	0.34	0.44	0.58	0.87	1.29	dB	0.187
LCCA9884-60	60 inch	Insertion Loss (Typ.)	0.46	0.61	0.83	1.27	1.93	dB	0.231
LCCA9884-300	300 inch	Insertion Loss (Typ.)	1.68	2.35	3.33	5.31	8.25	dB	0.672

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*sqrt(fGHz) dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.142 pounds
 Additional Weight per Inch: 0.00184 pounds

Electrical Specification Notes:
 Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.142 lbs [64.41 g]

Cable

Cable Type LMR-200-UF
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper
 Dielectric Type PE (F)
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Tinned Copper Braid
 Jacket Material TPE
 Jacket Diameter 0.195 in [4.95 mm]
 One Time Minimum Bend Radius 0.5 in [12.7 mm]
 Repeated Minimum Bend Radius 2 in [50.8 mm]
 Bending Moment 0.1 lbs-ft [0.14 N-m]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	N Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	ASTM B488	
Dielectric Type	Teflon	PTFE
Body Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal
Body Plating Specification	SAE-AMS-2700	
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 Inch	13/16 Inch

Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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Typical Performance Data

How to Order

Part Number Configuration:

LCCA9884

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: LCCA9884-12 = 12 inches long cable
LCCA9884-100cm = 100 cm long cable

Low Loss SMA Male to N Male Cable Assembly using LMR-200-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/sma-male-n-male-cable-assembly-invalid-lcca9884-p.aspx>

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