



LCCA9920

Configuration

Connector 1: BNC Male
Connector 2: SMA Male
Cable Type: LMR-240-UF
Coax Flex Type: Flexible

Description

L-com's LCCA9920 is a low loss BNC male to SMA male cable assembly using LMR-240-UF coax with Times Microwave components with heatshrink and ships same-day. The LMR-240-UF coax of this BNC cable uses the PE (F) dielectric with a VoP of 84%, 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 BNC to SMA cable assembly has a male to male gender configuration with flexible LMR-240-UF series coax and operates to 4 GHz. The double shield of this BNC cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB.

Custom versions of this BNC male to BNC 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 LCCA9920 L-com Low Loss BNC Male to SMA Male Cable Assembly using LMR-240-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		4	GHz
VSWR			1.5:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Input Power (Peak)			5.6	KWatts

Specifications by Frequency





LCCA9920

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	4000	MHz	
LCCA9920	Custom Lengths	Insertion Loss (Typ.)	0.028	0.046	0.066	0.095	0.195	dB/ft	
ECCA9920	Available	111361 tiol1 Loss (1 yp.)	0.1	0.16	0.22	0.32	0.64	dB/m	
LCCA9920-12	12 inch	Insertion Loss (Typ.)	0.23	0.25	0.27	0.3	0.4	dB	0.085
LCCA9920-24	24 inch	Insertion Loss (Typ.)	0.26	0.3	0.34	0.39	0.59	dB	0.118
LCCA9920-36	36 inch	Insertion Loss (Typ.)	0.29	0.34	0.4	0.49	0.79	dB	0.15
LCCA9920-60	60 inch	Insertion Loss (Typ.)	0.34	0.43	0.53	0.68	1.18	dB	0.214
LCCA9920-300	300 inch	Insertion Loss (Typ.)	0.9	1.35	1.85	2.58	5.08	dB	0.854

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:0.085 poundsAdditional Weight per Inch:0.00267 pounds

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

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.085 lbs [38.56 g]

Cable

Cable TypeLMR-240-UFImpedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopper

Dielectric Type

Number of Shields

Shield Layer 1

Copper
PE (F)
Aluminum Tape

Shield Layer 2 Tinned Copper Braid Jacket Material TPE

Jacket Diameter0.24 in [6.1 mm]One Time Minimum Bend Radius0.75 in [19.05 mm]Repeated Minimum Bend Radius2.5 in [63.5 mm]Bending Moment0.13 lbs-ft [0.18 N-m]





LCCA9920

Connectors

Description	Connector 1	Connector 2
Туре	BNC Male	SMA Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		ASTM B488
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Passivated Stainless Steel
Body Plating Specification		SAE-AMS-2700
Coupling Nut Material and Plating	Brass, Nickel	Passivated Stainless Steel
Coupling Nut Plating Specification		SAE-AMS-2700

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.





LCCA9920

Typical Performance Data

How to Order

Part Number Configuration:

LCCA9920 - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: LCCA9920-12 = 12 inches long cable

LCCA9920-100cm = 100 cm long cable

Low Loss BNC Male to SMA Male Cable Assembly using LMR-240-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/bnc-male-sma-male-cable-assembly-invalid-lcca9920-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.

LCCA9920 CAD Drawing

Low Loss BNC Male to SMA Male Cable Assembly using LMR-240-UF Coax With Times Microwave Components with HeatShrink

