



LCCA9950

Configuration

Connector 1: BNC Male
Connector 2: TNC Male
Cable Type: LMR-400-UF
Coax Flex Type: Flexible

Description

L-com's LCCA9950 is a low loss BNC male to TNC 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 BNC 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 BNC to TNC 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 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 LCCA9950 L-com Low Loss BNC Male to TNC 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





LCCA9950

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800	MHz	
LCCA9950	Custom Lengths	Insertion Loss (Typ.)	0.023	0.034	0.049	0.081	0.13	dB/ft	
ECCA9930	Available		0.08	0.12	0.17	0.27	0.43	dB/m	
LCCA9950-FT1	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.25	0.29	0.33	dB	0.261
LCCA9950-FT2	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.37	0.46	dB	0.348
LCCA9950-FT3	36 inch	Insertion Loss (Typ.)	0.27	0.31	0.35	0.45	0.59	dB	0.435
LCCA9950-FT5	60 inch	Insertion Loss (Typ.)	0.32	0.37	0.45	0.61	0.85	dB	0.609
LCCA9950-FT25	300 inch	Insertion Loss (Typ.)	0.78	1.05	1.43	2.23	3.45	dB	2.349

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

TPE

Loss due to Connector 1:

O.1 dB

Loss due to Connector 2:

Base Weight:

Additional Weight per Inch:

0.1 dB

0.261 pounds

0.00725 pounds

Mechanical Specifications

Cable Assembly

Jacket Material

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.261 lbs [118.39 g]

Cable

Cable Type Inner Conductor Type

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 Diameter0.405 in [10.29 mm]One Time Minimum Bend Radius1 in [25.4 mm]





LCCA9950

Connectors

Description	Connector 1	Connector 2
Туре	BNC Male	TNC Male
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 microns	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 microns	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 microns	

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.





LCCA9950

Typical Performance Data

How to Order

Part Number Configuration:

LCCA9950 - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: LCCA9950-12 = 12 inches long cable

LCCA9950-100cm = 100 cm long cable

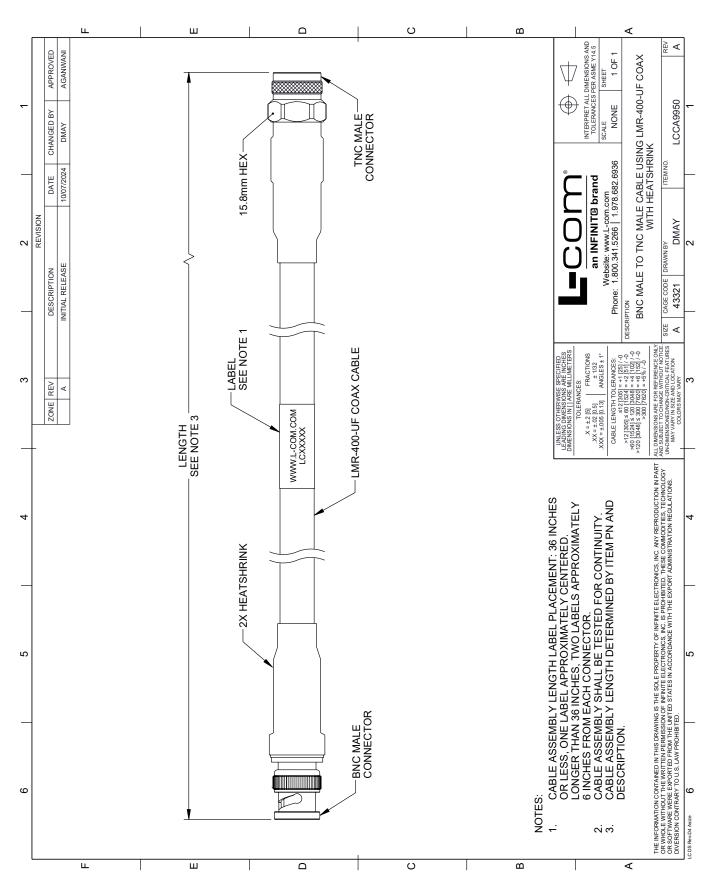
Low Loss BNC Male to TNC Male Cable Assembly using LMR-400-UF Coax With Times Microwave Components with HeatShrink from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: https://www.l-com.com/bnc-male-tnc-male-cable-assembly-invalid-lcca9950-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.

LCCA9950 CAD Drawing

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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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LCCA9950-FT5 LCCA9950-FT3 LCCA9950-FT1 LCCA9950-FT2 LCCA9950-FT25