



LCCA9897

Configuration

Connector 1: TNC Male Right AngleConnector 2: TNC Male Right Angle

Cable Type: LMR-400-UFCoax Flex Type: Flexible

Description

L-com's LCCA9897 is a low loss TNC male RA to TNC male RA cable assembly using LMR-400-UF coax with Times Microwave components with heatshrink and 180 deg. clock and ships same-day. The LMR-400-UF coax of this TNC 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 TNC 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 TNC cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB. This right angle TNC cable interface on the LMR-400-UF coax allows for easier connections in tight spaces.

Custom versions of this TNC male to TNC 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 LCCA9897 L-com Low Loss TNC Male RA to TNC Male RA Cable Assembly using LMR-400-UF Coax With Times Microwave Components with HeatShrink and 180 Deg. Clock 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)
Fait Number	Lengui	Frequency	250	500	1000	2500	5800	MHz	weight (ms)
LCCA9897	Custom Lengths	Insertion Loss (Typ.)	0.023	0.034	0.049	0.081	0.13	dB/ft	
ECCA9897	Available	ilisertion Loss (Typ.)	0.08	0.12	0.17	0.27	0.43	dB/m	
LCCA9897-12	12 inch	Insertion Loss (Typ.)	0.43	0.44	0.45	0.49	0.53	dB	0.307
LCCA9897-24	24 inch	Insertion Loss (Typ.)	0.45	0.47	0.5	0.57	0.66	dB	0.394
LCCA9897-36	36 inch	Insertion Loss (Typ.)	0.47	0.51	0.55	0.65	0.79	dB	0.481
LCCA9897-60	60 inch	Insertion Loss (Typ.)	0.52	0.57	0.65	0.81	1.05	dB	0.655
LCCA9897-300	300 inch	Insertion Loss (Typ.)	0.98	1.25	1.63	2.43	3.65	dB	2.395

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: 0.2 dB

Loss due to Connector 2: 0.2 dB

Base Weight: 0.307 pounds

Additional Weight per Inch: 0.00725 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.307 lbs [139.25 g]

Cable

Cable TypeLMR-400-UFImpedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopperDielectric TypePE (F)Number of Shields2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material TPE

Jacket Diameter0.405 in [10.29 mm]One Time Minimum Bend Radius1 in [25.4 mm]Repeated Minimum Bend Radius4 in [101.6 mm]Bending Moment0.38 lbs-ft [0.52 N-m]





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Connectors

Description	Connector 1	Connector 2		
Туре	TNC Male Right Angle	TNC Male Right Angle		
Impedance	50 Ohms	50 Ohms		
Configuration	Right Angle	Right Angle		
Contact Material and Plating	Brass, Silver	Brass, Silver		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Silver	Brass, Silver		
Coupling Nut Material and Plating	Brass, Silver	Brass, Silver		

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.





LCCA9897

Typical Performance Data

How to Order

Part Number Configuration:

LCCA9897 - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: LCCA9897-12 = 12 inches long cable

LCCA9897-100cm = 100 cm long cable

Low Loss TNC Male RA to TNC Male RA Cable Assembly using LMR-400-UF Coax With Times Microwave Components with HeatShrink and 180 Deg. Clock 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/tnc-male-tnc-male-cable-assembly-invalid-lcca9897-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.

LCCA9897 CAD Drawing

Low Loss TNC Male RA to TNC Male RA Cable Assembly using LMR-400-UF Coax With Times Microwave Components with HeatShrink and 180 Deg. Clock

