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

LCCA9940

Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: TNC Male Right Angle
- Cable Type: LMR-240-UF
- Coax Flex Type: Flexible

Description

L-com's LCCA9940 is a low loss TNC male RA to TNC male RA cable assembly using LMR-240-UF coax with Times Microwave components with heatshrink and ships same-day. The LMR-240-UF coax of this TNC 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 TNC to TNC cable assembly has a male to male gender configuration with flexible LMR-240-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-240-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 LCCA9940 L-com Low Loss TNC Male RA to TNC Male RA 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		5.8	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

Specifications by Frequency

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

LCCA9940

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800	MHz	
LCCA9940	Custom Lengths Available	Insertion Loss (Typ.)	0.046	0.066	0.095	0.155	0.244	dB/ft	
			0.16	0.22	0.32	0.51	0.81	dB/m	
LCCA9940-FT1	12 inch	Insertion Loss (Typ.)	0.45	0.47	0.5	0.56	0.65	dB	0.164
LCCA9940-FT2	24 inch	Insertion Loss (Typ.)	0.5	0.54	0.59	0.71	0.89	dB	0.197
LCCA9940-FT3	36 inch	Insertion Loss (Typ.)	0.54	0.6	0.69	0.87	1.14	dB	0.229
LCCA9940-FT5	60 inch	Insertion Loss (Typ.)	0.63	0.73	0.88	1.18	1.62	dB	0.293
LCCA9940-FT25	300 inch	Insertion Loss (Typ.)	1.55	2.05	2.78	4.28	6.5	dB	0.933

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:	0.164	pounds
Additional Weight per Inch:	0.00267	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.164 lbs [74.39 g]

Cable

Cable Type	LMR-240-UF
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	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.13 lbs-ft [0.18 N-m]
Flat Plate Crush	13 lbs/in [0.23 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

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

LCCA9940

Connectors

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	TNC Male Right Angle
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:
Values at 25°C, sea level.

Typical Performance Data

How to Order

Part Number Configuration: **LCCA9940 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- LCCA9940 — Base Number

Example: LCCA9940-12 = 12 inches long cable
LCCA9940-100cm = 100 cm long cable

Low Loss TNC Male RA to TNC Male RA 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/tnc-male-tnc-male-cable-assembly-invalid-lcca9940-p.aspx

LCCA9940 CAD Drawing

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