

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



LCCA9941

Configuration

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

Description

L-com's LCCA9941 is a low loss TNC male right angle to TNC 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 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 LCCA9941 L-com Low Loss TNC Male Right Angle to TNC 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		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 Right Angle to TNC Male Cable Assembly using LMR-240-UF Coax With Times Microwave Components with HeatShrink



LCCA9941

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	250	500	1000	2500		
LCCA9941	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	
LCCA9941-FT1	12 inch	Insertion Loss (Typ.)	0.35	0.37	0.4	0.46	0.55	dB	0.149
LCCA9941-FT2	24 inch	Insertion Loss (Typ.)	0.4	0.44	0.49	0.61	0.79	dB	0.182
LCCA9941-FT3	36 inch	Insertion Loss (Typ.)	0.44	0.5	0.59	0.77	1.04	dB	0.214
LCCA9941-FT5	60 inch	Insertion Loss (Typ.)	0.53	0.63	0.78	1.08	1.52	dB	0.278
LCCA9941-FT25	300 inch	Insertion Loss (Typ.)	1.45	1.95	2.68	4.18	6.4	dB	0.918

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: 0.1 dB
 Base Weight: 0.149 pounds
 Additional Weight per Inch: 0.00267 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.149 lbs [67.59 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 Right Angle to TNC Male Cable Assembly using LMR-240-UF Coax With Times Microwave Components with HeatShrink



LCCA9941

Connectors

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

Environmental Specifications

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

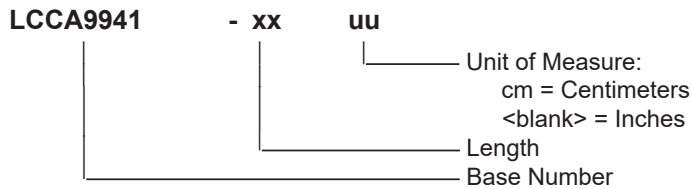
Plotted and Other Data

Notes:
Values at 25°C, sea level.

Typical Performance Data

How to Order

Part Number Configuration:



Example: LCCA9941-12 = 12 inches long cable
LCCA9941-100cm = 100 cm long cable

Low Loss TNC Male Right Angle to TNC 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/tnc-male-tnc-male-cable-assembly-invalid-lcca9941-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 implement 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.

LCCA9941 CAD Drawing

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

