

LCCA9957

Configuration

· Connector 1: N Male Right Angle

Connector 2: N MaleCable Type: LMR-400-UFCoax Flex Type: Flexible

Description

L-com's LCCA9957 is a low loss N male right angle to N 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 N 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 N to N 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 N cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB. This right angle N cable interface on the LMR-400-UF coax allows for easier connections in tight spaces.

Custom versions of this N male to N 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 LCCA9957 L-com Low Loss N Male Right Angle to N 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



LCCA9957

| Part Number | Longth | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|---------------|----------------|------------------------|-------|-------|-------|-------|------|-------|--------------|
| Part Number | Length | Frequency | 250 | 500 | 1000 | 2500 | 5800 | MHz | weight (bs) |
| LCCA9957 | Custom Lengths | Insertion Loss (Typ.) | 0.023 | 0.034 | 0.049 | 0.081 | 0.13 | dB/ft | |
| ECCA9937 | Available | ilisertion Loss (Typ.) | 0.08 | 0.12 | 0.17 | 0.27 | 0.43 | dB/m | |
| LCCA9957-FT1 | 12 inch | Insertion Loss (Typ.) | 0.33 | 0.34 | 0.35 | 0.39 | 0.43 | dB | 0.324 |
| LCCA9957-FT2 | 24 inch | Insertion Loss (Typ.) | 0.35 | 0.37 | 0.4 | 0.47 | 0.56 | dB | 0.411 |
| LCCA9957-FT3 | 36 inch | Insertion Loss (Typ.) | 0.37 | 0.41 | 0.45 | 0.55 | 0.69 | dB | 0.498 |
| LCCA9957-FT5 | 60 inch | Insertion Loss (Typ.) | 0.42 | 0.47 | 0.55 | 0.71 | 0.95 | dB | 0.672 |
| LCCA9957-FT25 | 300 inch | Insertion Loss (Typ.) | 0.88 | 1.15 | 1.53 | 2.33 | 3.55 | dB | 2.412 |

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

Stranded

Copper

PE(F)

Loss due to Connector 1: 0.2 dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.324 pounds

Additional Weight per Inch: 0.00725 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.324 lbs [146.96 g]

Cable

Cable Type
Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type
Number of Shields
Shield Layer 1

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

Jacket Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]
Repeated Minimum Bend Radius 4 in [101.6 mm

 Repeated Minimum Bend Radius
 4 in [101.6 mm]

 Bending Moment
 0.38 lbs-ft [0.52 N-m]

 Flat Plate Crush
 20 lbs/in [0.36 Kg/mm]

 Tensile Strength
 160 lbs [72.57 Kg]





LCCA9957

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|--------------------|------------------|
| Туре | N Male Right Angle | N Male |
| Configuration | Right Angle | Straight |
| Mating Cycles | 500 | |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | | 50 μin. minimum |
| Dielectric Type | Teflon | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | | 150 μin. minimum |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Specification | | 150 μin. minimum |
| Hex Size | 13/16 inch | 13/16 inch |
| Torque | 30 in-lbs 3.39 Nm | |

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.





LCCA9957

Typical Performance Data

How to Order

Part Number Configuration:

LCCA9957 - xx uu

Unit of Measure:
cm = Centimeters

chlank> = Inches

Length

Base Number

Example: LCCA9957-12 = 12 inches long cable

LCCA9957-100cm = 100 cm long cable

Low Loss N Male Right Angle to N 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/n-male-n-male-cable-assembly-invalid-lcca9957-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.

LCCA9957 CAD Drawing

Low Loss N Male Right Angle to N Male Cable Assembly using LMR-400-UF Coax With Times Microwave Components with HeatShrink

