

GLOBAL CONNECTIVITY SOLUTIONS

75 Ohm Low Loss N Male to N Male Cable Assembly using LMR-400-75 Coax, 6 FT with Times Microwave Components

LCCA30209-FT6

Configuration

- Connector 1: N Male
- · Connector 2: N Male
- Cable Type: LMR-400-75

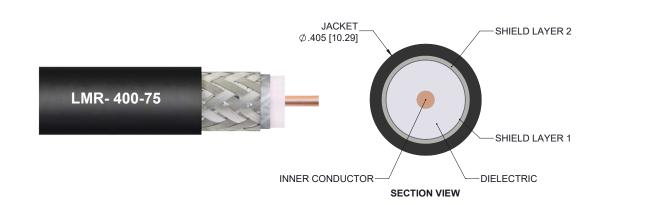
Features

- Using Times Microwave Components
- Max Frequency 2.5 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity

Applications

- · General Purpose
- · Laboratory Use
- Antenna Installations

- PE Jacket
- Low Insertion Loss
- Bend Radius of 4 Inches
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems



Description

L-com's LCCA30209-FT6 is a 75 Ohm low loss N male to N male cable assembly using LMR-400-75 coax, 6 FT with Times Microwave components and ships same-day. The LMR-400-75 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 75 Ohm flexible LMR-400-75 series coax and operates to 2.5 GHz. The double shield of this N cable is layered by tinned copper over aluminum tape providing shielding effectiveness greater than 90dB. *LMR[™] is a trademark of Times Microwave Systems.

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 LCCA30209-FT6 L-com 75 Ohm Low Loss N Male to N Male Cable Assembly using LMR-400-75 Coax, 6 FT with Times Microwave Components data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.5	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Capacitance		15.9 [52.17]		pF/ft [pF/m]
Inductance		0.09 [0.3]		uH/ft [uH/m]
DC Resistance Inner Con	ductor	2.5 [8.2]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Con	ductor	1.65 [5.41]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	2.5	GHz
Insertion Loss (Typ.)	0.26	0.31	0.36	0.43	0.58	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly Length Diameter
Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2
Jacket Material
Jacket Diameter

One Time Minimum Bend Radius

72 in [182.88 cm] 0.81 in [20.57 mm]

LMR-400-75 75 Ohms Solid Beryllium Copper PE (F) 2 Aluminum Tape Tinned Copper PE, Black 0.405 in [10.29 mm]

1 in [25.4 mm]



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Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 4 in [101.6 mm] 0.5 lbs-ft [0.68 N-m] 40 lbs/in [0.71 Kg/mm] 160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2
Туре	N Male	N Male
Impedance	75 Ohms	75 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µ inch minimum	50 µ inch minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µ inch minimum	80 µ inch minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 µ inch minimum	80 µ inch minimum

Environmental Specifications

Temperature Operating Range Storage Range

-40 to +85 deg C -70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



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includes antennas, amplifiers, passive, and active components.

LCCA30209-FT6

How to Order

Example:

Part Number Configuration: LCCA30209 - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** LCCA30209-12 = 12 inches long cable LCCA30209-100cm = 100 cm long cable

75 Ohm Low Loss N Male to N Male Cable Assembly using LMR-400-75 Coax, 6 FT with Times Microwave Components from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. 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

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.ontained 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.



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L-com CAD Drawing

