Low Loss N Male to N Male Cable Assembly using LMR-400 Coax, 3 FT with Times Microwave Components

LCCA30191-FT3

Configuration

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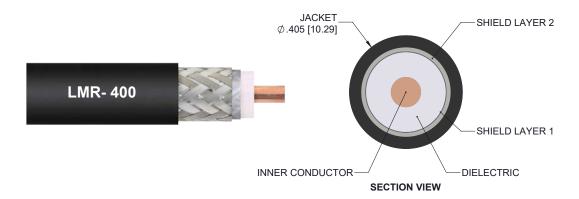- Connector 2: N Male
- Cable Type: LMR-400

Features

- Using Times Microwave Components
- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- PE Jacket
- Low Insertion Loss
- Bend Radius of 4 Inches

Applications

- General Purpose
- Laboratory Use
- Antenna Installations
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems

SECTION VIEW

Description

L-com's LCCA30191-FT3 is a low loss N male to N male cable assembly using LMR-400 coax, 3 FT with Times Microwave components and ships same-day. The LMR-400 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 series coax and operates to 6 GHz. The double shield of this N cable is layered by tinned copper braid 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 LCCA30191-FT3 L-com Low Loss N Male to N Male Cable Assembly using LMR-400 Coax, 3 FT with Times Microwave Components data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

USA & Canada **+1(800) 341-5266** | International **+1(978) 682-6936** | **l-com.com**

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
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		1.39 [4.56]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.25	0.28	0.32	0.4	0.52	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   36 in [914.4 mm]
Diameter   0.8 in [20.32 mm]

Weight   0.168 lbs [76.2 g]

Cable
Cable Type   LMR-400
Impedance   50 Ohms
Inner Conductor Type   Solid
Inner Conductor Material and Plating   Copper Clad Aluminum
Dielectric Type   PE (F)
Number of Shields   2
Shield Layer 1   Aluminum Tape
Shield Layer 2   Tinned Copper Braid

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Jacket Material	PE, Black
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]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μ in. minimum	50 μ in. minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	150 μ in. minimum	150 μ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	150 μ in. minimum	150 μ in. minimum
Hex Size	13/16 inch	13/16 inch

Environmental Specifications
Temperature

Operating Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

Compliance Certifications (see product page for current document)
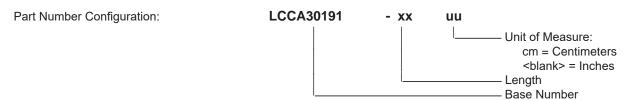
Plotted and Other Data
Notes:

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LCCA30191-FT3

How to Order

Part Number Configuration: **LCCA30191**   **- xx**   **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: LCCA30191-12 = 12 inches long cable
LCCA30191-100cm = 100 cm long cable

Low Loss N Male to N Male Cable Assembly using LMR-400 Coax, 3 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 includes antennas, amplifiers, passive, and active components.

Low Loss N Male to N Male Cable Assembly using LMR-400 Coax, 3 FT with Times Microwave Components

L-com CAD Drawing

N MALE

N MALE

LENGTH MEASURED
FROM CONTACT TO CONTACT

2X HEAT SHRINK

LABEL

LMR-400

WWW.L-COM.COM
L-COM P/N

(SEE NOTE 1)

NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.
   CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END,
   6.0" FROM THE FRONT OF THE CONNECTOR.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/03/2020	SELLIS

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
$X = \pm .2$ [5.08] FRACTIONS
$XX = \pm .02$ [.51] $\pm 1/32$
$XXX = \pm .005$ [.13] ANGLES $\pm 1°$

CABLE LENGTH (L) TOLERANCES:
$L \le 12$ [305] = +1 [25] / -0
12 [305] < $L \le 60$ [1524] = +2 [51] / -0
60 [1524] < $L \le 120$ [3048] = +4 [102] / -0
120 [3048] < $L \le 300$ [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

L-com
an INFINITE brand

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SIZE	CAGE CODE	DRAWN BY	PART NUMBER
A	43321	MVEERAPPAN	LCCA30191

THIRD-ANGLE PROJECTION

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DESIGN IN THIS DOCUMENT
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SHEET 1 OF 1

SCALE N/A REV A

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T-Rev.D