

75 Ohm Low Loss F Male to N Male Cable Assembly using LMR-400-75 Coax, 1.5 FT with Times Microwave Components

## LCCA30329-FT1.5



### Configuration

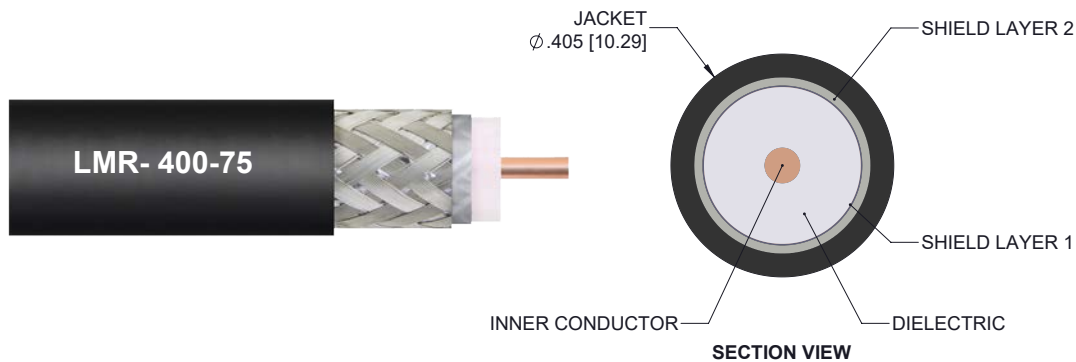
- Connector 1: F Male
- Connector 2: N Male
- Cable Type: LMR-400-75

### Features

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



### Description

L-com's LCCA30329-FT1.5 is a 75 Ohm low loss F male to N male cable assembly using LMR-400-75 coax, 1.5 FT with Times Microwave components and ships same-day. The LMR-400-75 coax of this F 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 F 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 F cable is layered by tinned copper over aluminum tape providing shielding effectiveness greater than 90dB. \*LMR<sup>TM</sup> is a trademark of Times Microwave Systems.

Custom versions of this F male to F 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 LCCA30329-FT1.5 L-com 75 Ohm Low Loss F Male to N Male Cable Assembly using LMR-400-75 Coax, 1.5 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 Conductor		2.5 [8.2]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.05	0.1	0.25	0.5	2.5	GHz
Insertion Loss (Typ.)	0.21	0.21	0.22	0.2	0.29	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 18 in [457.2 mm]  
Diameter 0.81 in [20.57 mm]

**Cable**

Cable Type LMR-400-75  
Impedance 75 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Beryllium Copper  
Dielectric Type PE (F)  
Number of Shields 2  
Shield Layer 1 Aluminum Tape  
Shield Layer 2 Tinned Copper  
Jacket Material PE, Black  
Jacket Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

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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	F Male	N Male
Impedance	75 Ohms	75 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification		50 μ inch minimum
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating	Brass, Nickel	
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal
Body Plating Specification		80 μ inch minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Specification		80 μ inch minimum

### 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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**LCCA30329-FT1.5**

**How to Order**

Part Number Configuration:

**LCCA30329 - xx uu**



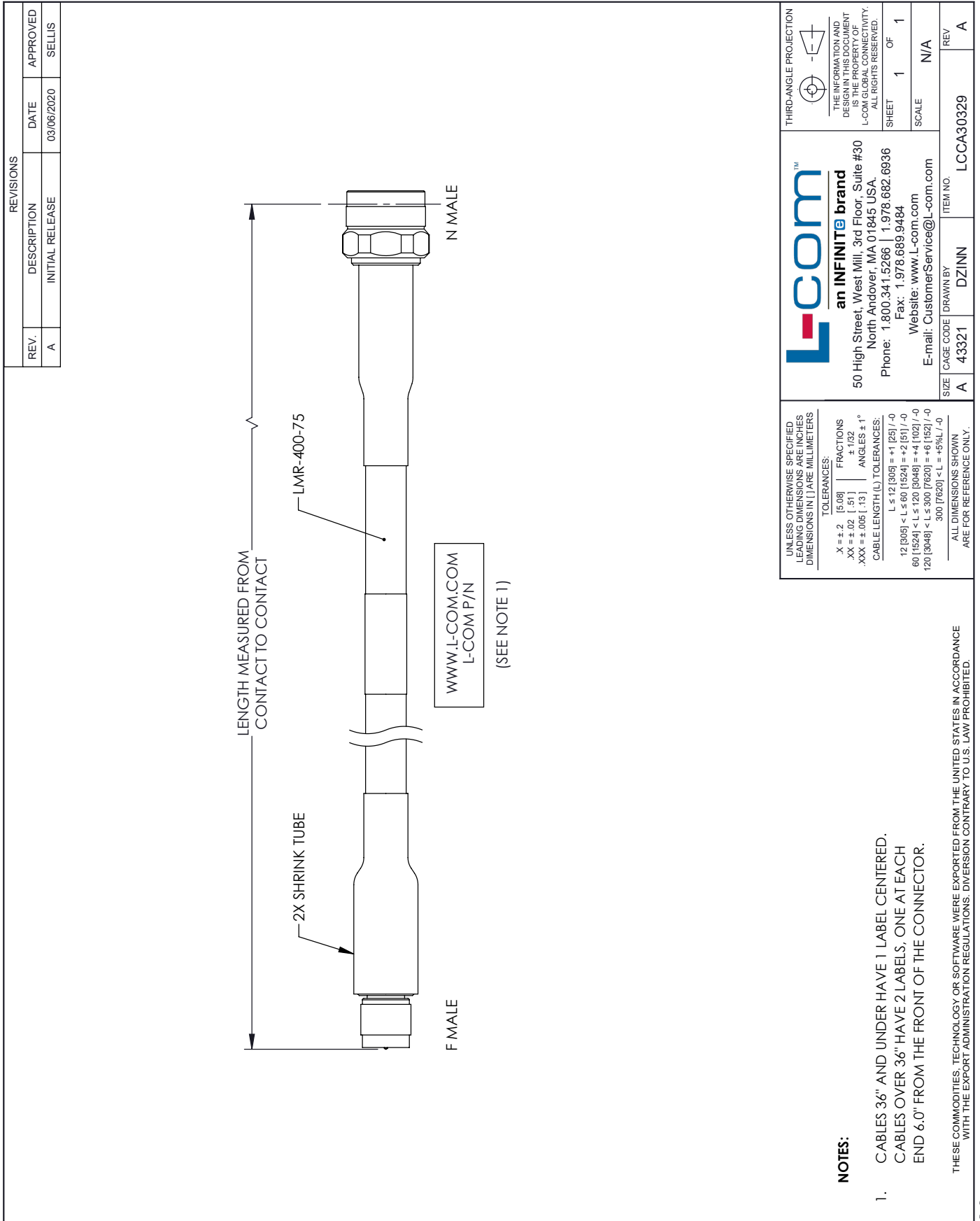
Example: LCCA30329-12 = 12 inches long cable  
LCCA30329-100cm = 100 cm long cable

75 Ohm Low Loss F Male to N Male Cable Assembly using LMR-400-75 Coax, 1.5 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.

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



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

**TOLERANCES:**

.X = ± .2	[5.08]	FRACTIONS	± 1/32
.XX = ± .02	[.51]	ANGLES	± 1°
.XXX = ± .005	[.13]		

**CABLE LENGTH (L) TOLERANCES:**

L ≤ 12 [305]	± 1 [25] / -0
12 [305] < L ≤ 60 [1524]	± 2 [51] / -0
60 [1524] < L ≤ 120 [3048]	± 4 [102] / -0
120 [3048] < L ≤ 300 [7620]	± 6 [152] / -0
300 [7620] < L	± 9% [L] / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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ITEM NO. LCCA30329

SIZE A  
CAGE CODE 43321  
DRAWN BY DZINN

**NOTES:**

- 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.

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