

## Low Loss N Male to N Female Bulkhead Weatherproof Cable Assembly with Silicone using LMR-400 Coax with Times Microwave Components



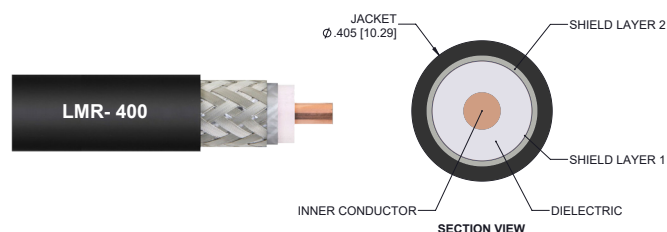
### LCCA30194/WP

#### Configuration

- Connector 1: N Male
- Connector 2: N Female Bulkhead
- Cable Type: LMR-400
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket
- Silicone Connector Boot
- IP68 Rated



#### Description

The L-com LCCA30194/WP is a weatherproof low loss cable assembly that comes with type N male connection with weatherproof boot on one end and type N female with weatherproof boot on the other. L-com's RF coaxial cable assembly products are designed for typical use, production, laboratory test and measurement, defense/military, aerial antenna towers, etc. The low loss cable has a 50 Ohm impedance and is specifically ready for quicker shipment than most in the industry can provide.

This weatherproof low loss RF cable assembly operates at a maximum frequency of 6 GHz. Our RF cable assembly has a PE jacket with 0.405 inches diameter. The type N male to type N female cable assembly LCCA30194/WP is built with LMR-400 coax, which has a flexible design. This RF cable assembly with 0.5 inches diameter has copper clad aluminum as cable's inner conducting material and PE (F) dielectric type. The weatherproof boot low loss cable is reusable and can withstand elements including extreme temperature. Additional dimensions, specifications, and CAD drawings for this LCCA30194/WP low loss RF cable are available on our downloadable PDF datasheet.

L-com stocks a wide selection of weatherproof low loss cable assemblies that ship the same business day as ordered from our warehouse. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal type N male to type N female cable assembly as per your requirements.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
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]
Dielectric Withstanding Voltage (DC)			2,500	Vdc

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## LCCA30194/WP

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
LCCA30194/WP	Custom Lengths Available	Insertion Loss (Typ.)	0.020	0.028	0.041	0.068	0.108	dB/ft	
			0.07	0.1	0.14	0.23	0.36	dB/m	
LCCA30194/WP-FT1	12 In	Insertion Loss (Typ.)	0.17	0.2	0.25	0.33	0.46	dB	0.838
LCCA30194/WP-FT2	24 In	Insertion Loss (Typ.)	0.19	0.23	0.29	0.4	0.57	dB	0.905
LCCA30194/WP-FT3	36 In	Insertion Loss (Typ.)	0.21	0.26	0.33	0.47	0.67	dB	0.972
LCCA30194/WP-FT4	48 In	Insertion Loss (Typ.)	0.23	0.29	0.37	0.54	0.78	dB	1.039
LCCA30194/WP-FT5	60 In	Insertion Loss (Typ.)	0.25	0.32	0.41	0.6	0.89	dB	1.106

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:	0.1 dB
Loss due to Connector 2:	0.1*SQRT(FGHz) dB
Base Weight:	0.838 pounds
Additional Weight per Inch:	0.00559 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.838 lbs [380.11 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
Jacket Material	PE
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]

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### LCCA30194/WP

#### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female Bulkhead
Option	Weatherproof Boot	Weatherproof Boot
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Tri-metal
Outer Conductor Plating Specification		80 µin minimum
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-metal
Body Plating Specification	150 µin minimum	80 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	
Coupling Nut Plating Specification	150 µin minimum	
Hex Size	13/16 inch	
Boot Material	Silicone	Silicone

#### Environmental Specifications

Ingress Protection (IP) Rating	IP68
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#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

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### LCCA30194/WP

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**LCCA30194/WP**

**- xx**

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

Example: LCCA30194/WP-12 = 12 inches long cable  
LCCA30194/WP-100cm = 100 cm long cable

Low Loss N Male to N Female Bulkhead Weatherproof Cable Assembly with Silicone using LMR-400 Coax with Times Microwave Components 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-female-cable-assembly-lcca30194-wp-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.

LCCA30194/WP CAD Drawing

Low Loss N Male to N Female Bulkhead Weatherproof Cable Assembly with Silicone using LMR-400 Coax with Times Microwave Components

