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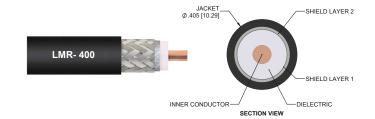
# LCCA30193/WP

## Configuration

Connector 1: N MaleConnector 2: N FemaleCable Type: LMR-400Coax Flex Type: Flexible

#### **Features**

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



#### **Description**

The L-com LCCA30193/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 LCCA30193/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 can operate at a temperature range of -40 to 85 degrees C. Additional dimensions, specifications, and CAD drawings for this LCCA30193/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





# **LCCA30193/WP**

# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

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Part Number	Longth	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Number	Length	Frequency	250	500	1000	2500	6000	MHz	weight (ibs)
LCCA30193/WP	Custom Lengths	Insertion Loss (Typ.)	0.02	0.028	0.041	0.068	0.108	dB/ft	
LCCA30193/WF	Available	ilisertion Loss (Typ.)	0.07	0.1	0.14	0.23	0.36	dB/m	
LCCA30193/WP-FT1	12 ln	Insertion Loss (Typ.)	0.22	0.23	0.25	0.27	0.31	dB	0.756
LCCA30193/WP-FT2	24 In	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.42	dB	0.823
LCCA30193/WP-FT3	36 In	Insertion Loss (Typ.)	0.26	0.29	0.33	0.41	0.53	dB	0.89
LCCA30193/WP-FT4	48 In	Insertion Loss (Typ.)	0.28	0.32	0.37	0.48	0.64	dB	0.957
LCCA30193/WP-FT5	60 In	Insertion Loss (Typ.)	0.3	0.34	0.41	0.54	0.74	dB	1.024

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 dB Base Weight: 0.756 pounds Additional Weight per Inch: 0.00558 pounds

# **Mechanical Specifications**

# Cable Assembly

Width/Diameter 0.5 in [12.7 mm] Weight 0.756 lbs [342.92 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 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] 40 lbs/in [0.71 Kg/mm] Flat Plate Crush Tensile Strength 160 lbs [72.57 Kg]





# LCCA30193/WP

#### **Connectors**

Description	Connector 1	Connector 2	
Туре	N Male	N Female	
Option	Weatherproof Boot	Weatherproof Boot	
Specification		MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Brass, Gold	Copper, Gold	
Contact Plating Specification	50 μin minimum		
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Tri-Metal	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Specification	150 µin minimum		
Coupling Nut Material and Plating	Brass, Tri-Metal		
Coupling Nut Plating Specification	150 µin minimum		
Boot Material	Silicone	Silicone	

# **Environmental Specifications**

Operating Range Temperature -40 to +85 deg C Ingress Protection (IP) Rating IP68

**Compliance Certifications** (see product page for current document)

# **Plotted and Other Data**

Notes:

Values at 25°C, sea level.





# **LCCA30193/WP**

## **Typical Performance Data**

#### **How to Order**

Part Number Configuration:

LCCA30193/WP - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
chlank> = Inches
<br/>
Length
Base Number

Example: LCCA30193/WP-12 = 12 inches long cable LCCA30193/WP-100cm = 100 cm long cable

Low Loss N Male to N Female 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-lcca30193-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 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.

# LCCA30193/WP CAD Drawing

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

