

Low Loss BNC Male to N Male Weatherproof Cable Assembly with Silicone using LMR-400 Coax, 4 FT with Times Microwave Components



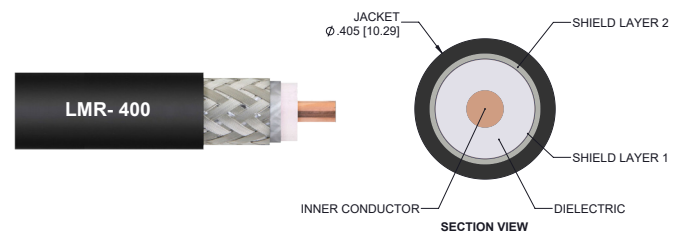
LCCA30299/WP-FT4

Configuration

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

Features

- Silicone Connector Boot
- IP68 Rated



Description

L-com's LCCA30299/WP-FT4 is a low loss BNC male to N male weatherproof cable assembly with silicone using LMR-400 coax, 4 FT with Times Microwave components and ships same-day. The LMR-400 coax of this BNC 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 BNC 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 BNC cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB.

Custom versions of this BNC male to BNC 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 LCCA30299/WP-FT4 L-com Low Loss BNC Male to N Male Weatherproof Cable Assembly with Silicone using LMR-400 Coax, 4 FT with Times Microwave Components data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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
Jacket Spark			8,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		250	500	1000	2500	
LCCA30299/WP	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.028	0.041	0.068	0.108	dB/ft	
			0.07	0.1	0.14	0.23	0.36	dB/m	
LCCA30299/WP-FT2	24 In	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.42	dB	0.818
LCCA30299/WP-FT3	36 In	Insertion Loss (Typ.)	0.26	0.29	0.33	0.41	0.53	dB	0.885
LCCA30299/WP-FT4	48 In	Insertion Loss (Typ.)	0.28	0.2	0.37	0.48	0.64	dB	0.952
LCCA30299/WP-FT5	60 In	Insertion Loss (Typ.)	0.3	0.34	0.41	0.54	0.74	dB	1.019

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: 0.751 pounds
 Additional Weight per Inch: 0.00558 pounds

Mechanical Specifications

Cable Assembly

Length 48 in [121.92 cm]
 Width/Diameter 0.5 in [12.7 mm]
 Weight 0.952 lbs [431.82 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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Connectors

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

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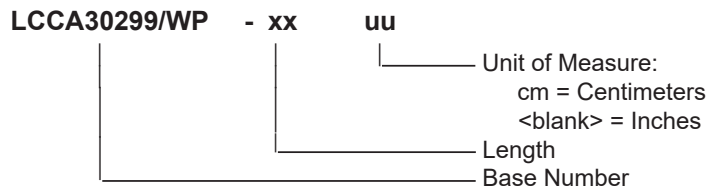


LCCA30299/WP-FT4

Typical Performance Data

How to Order

Part Number Configuration:



Example: LCCA30299/WP-12 = 12 inches long cable
LCCA30299/WP-100cm = 100 cm long cable

Low Loss BNC Male to N Male Weatherproof Cable Assembly with Silicone using LMR-400 Coax, 4 FT 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/bnc-male-n-male-cable-assembly-lcca30299-wp-ft4-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.

LCCA30299/WP-FT4 CAD Drawing

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