

## Low Loss TNC Male to N Female Bulkhead Weatherproof Cable Assembly with Silicone using LMR-400 Coax, 5 FT with Times Microwave Components



### LCCA30308/WP-FT5

#### Configuration

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

#### Features

- Silicone Connector Boot
- IP68 Rated

#### Description

L-com's LCCA30308/WP-FT5 is a low loss TNC male to N female bulkhead weatherproof cable assembly with silicone using LMR-400 coax, 5 FT with Times Microwave components and ships same-day. The LMR-400 coax of this TNC 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 TNC to N cable assembly has a male to female gender configuration with flexible LMR-400 series coax and operates to 6 GHz. The double shield of this TNC cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB. L-com's RF cable assembly with N bulkhead interface enables system designers to have external connections on their product enclosures or to be used for other rack mount and panel mount applications. The L-com LCCA30308/WP is a weatherproof low loss cable assembly that comes with TNC 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 TNC male to type N female cable assembly LCCA30308/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 LCCA30308/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 TNC male to type N female cable assembly as per your requirements.

Custom versions of this TNC male to TNC female 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 LCCA30308/WP-FT5 L-com Low Loss TNC Male to N Female Bulkhead Weatherproof Cable Assembly with Silicone using LMR-400 Coax, 5 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

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### Electrical Specifications

Description	Minimum	Typical				Maximum	Units
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

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800		
LCCA30308/WP	Custom Lengths Available	Insertion Loss (Typ.)	0.02 0.07	0.028 0.1	0.041 0.14	0.068 0.23	0.108 0.36	dB/ft dB/m	
LCCA30308/WP-FT2	2 FT	Insertion Loss (Typ.)	0.19	0.23	0.29	0.4	0.56	dB	0.895
LCCA30308/WP-FT3	3 FT	Insertion Loss (Typ.)	0.21	0.26	0.33	0.47	0.67	dB	0.962
LCCA30308/WP-FT4	4 FT	Insertion Loss (Typ.)	0.23	0.29	0.37	0.54	0.78	dB	1.029
LCCA30308/WP-FT5	5 FT	Insertion Loss (Typ.)	0.25	0.32	0.41	0.6	0.89	dB	1.096

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: 0.028 pounds

Additional Weight per Inch: 0.00559 pounds

### Mechanical Specifications

#### Cable Assembly

Length	60 in [152.4 cm]
Width/Diameter	.5 in [12.7 mm]
Weight	1.096 lbs [497.14 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]

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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	TNC Male	N Female Bulkhead
Option	Weatherproof Boot	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		50 $\mu$ in minimum
Dielectric Type		PTFE
Outer Conductor Material and Plating		Brass, Tri-metal
Outer Conductor Plating Specification		80 $\mu$ in minimum
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-metal
Body Plating Specification		80 $\mu$ in minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	
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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## LCCA30308/WP-FT5

### Typical Performance Data

### How to Order

Part Number Configuration:

LCCA30308/WP - xx uu

Legend:

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

Example: LCCA30308/WP-12 = 12 inches long cable  
LCCA30308/WP-100cm = 100 cm long cable

Low Loss TNC Male to N Female Bulkhead Weatherproof Cable Assembly with Silicone using LMR-400 Coax, 5 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/tnc-male-n-female-cable-assembly-lcca30308-wp-ft5-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.

# LCCA30308/WP-FT5 CAD Drawing

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