

## Low Loss TNC Male to N Female Bulkhead Weatherproof Cable Assembly with Silicone using LMR-400 Coax, 1 FT with Times Microwave Components



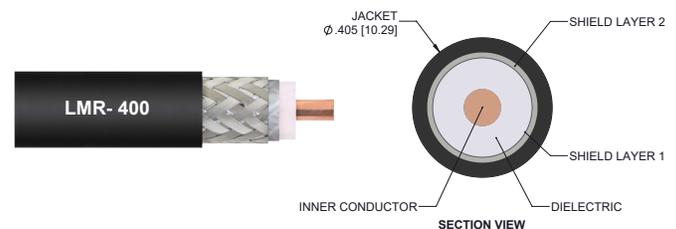
### LCCA30308/WP-FT1

#### 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

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.

#### 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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**LCCA30308/WP-FT1**

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	0.028	0.041	0.068	0.108	dB/ft	
			0.07	0.1	0.14	0.23	0.36	dB/m	
LCCA30308/WP-FT1	1 FT	Insertion Loss (Typ.)	0.17	0.2	0.25	0.33	0.45	dB	0.828
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 12 in [304.8 mm]  
 Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.828 lbs [375.57 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	TNC 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
Dielectric Type		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		80 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	
Boot Material	Silicone	Silicone

**Environmental Specifications**

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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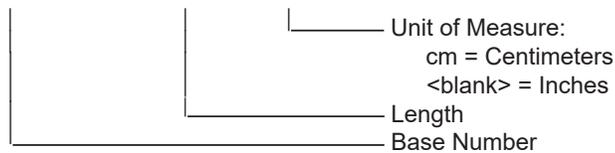
**LCCA30308/WP-FT1**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**LCCA30308/WP - xx uu**



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

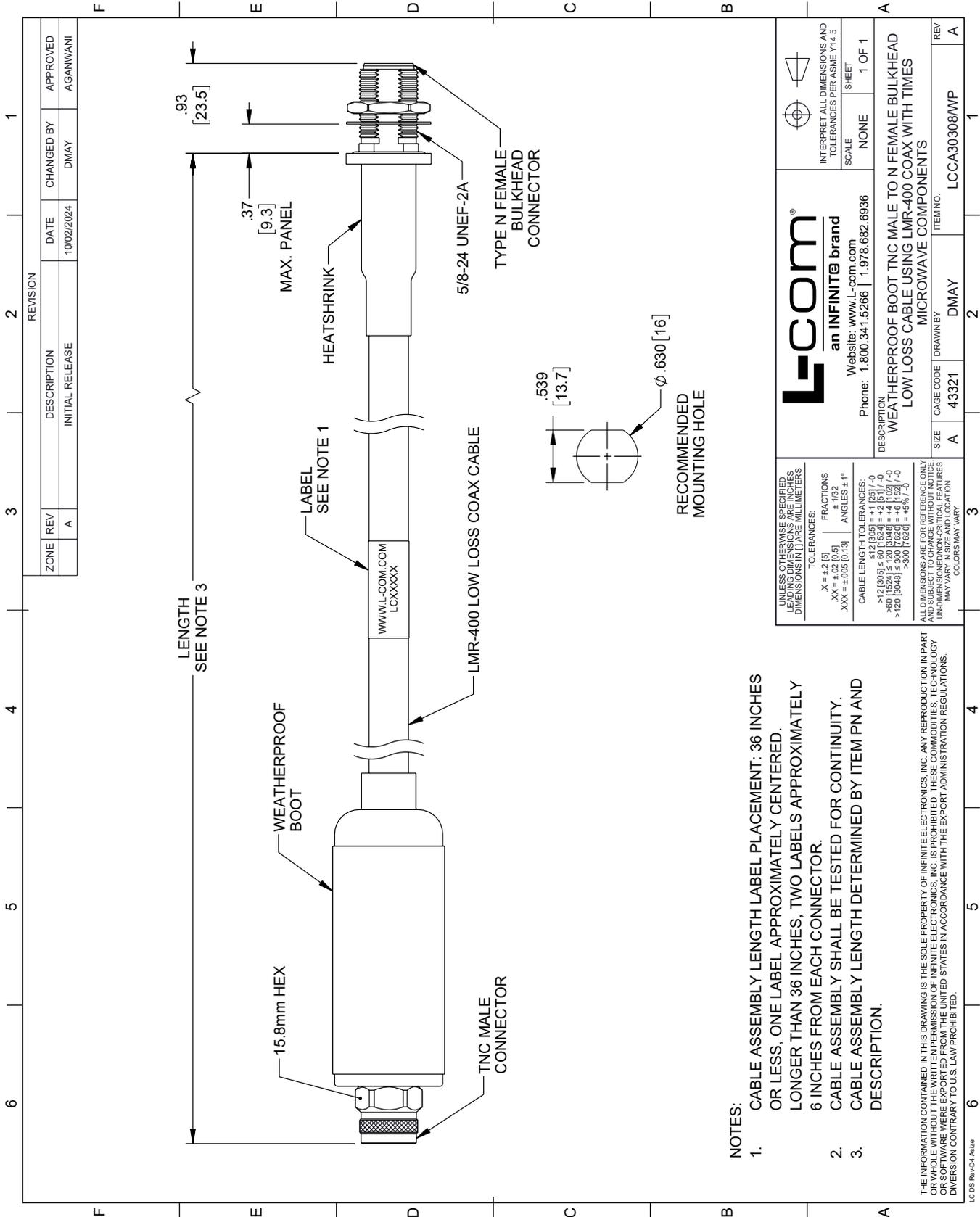
Low Loss TNC Male to N Female Bulkhead Weatherproof Cable Assembly with Silicone using LMR-400 Coax, 1 FT with Times Microwave Components from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as 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-ft1-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-FT1 CAD Drawing

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**NOTES:**

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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TOLERANCES: X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]		Fractions ± 1/32		SCALE NONE	
CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±.5% / -0		ANGLES ± 1°		SHEET 1 OF 1	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.					
DESCRIPTION WEATHERPROOF BOOT, TNC MALE TO N FEMALE BULKHEAD LOW LOSS CABLE USING LMR-400 COAX WITH TIMES MICROWAVE COMPONENTS		Phone: 1.800.341.5266   1.978.682.6936		ITEM NO. LCCA30308/WP	
SIZE A	CAGE CODE 43321	DRAWN BY DMAY	REV A	REV A	