



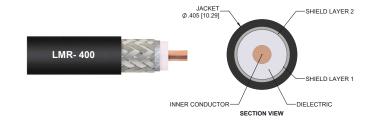
## **LCCA30293/WP**

### Configuration

Connector 1: SMA MaleConnector 2: TNC MaleCable 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 LCCA30293/WP is a weatherproof low loss cable assembly that comes with SMA male connection with weatherproof boot on one end and TNC male 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 SMA male to TNC male cable assembly LCCA30293/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 LCCA30293/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 SMA male to TNC male 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





## **LCCA30293/WP**

## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

**Specifications by Frequency** 

positional by Frequency									
Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
LCCA30293/WP	Custom Lengths	Insertion Loss (Typ.)	0.02	0.028	0.041	0.068	0.108	dB/ft	
LCCA3U293/WP	Available		0.07	0.1	0.14	0.23	0.36	dB/m	
LCCA30293/WP-FT1	12 ln	Insertion Loss (Typ.)	0.22	0.23	0.25	0.27	0.31	dB	0.709
LCCA30293/WP-FT2	24 In	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.42	dB	0.776
LCCA30293/WP-FT3	36 In	Insertion Loss (Typ.)	0.26	0.29	0.33	0.41	0.53	dB	0.843
LCCA30293/WP-FT4	48 In	Insertion Loss (Typ.)	0.28	0.32	0.37	0.48	0.64	dB	0.91
LCCA30293/WP-FT5	60 In	Insertion Loss (Typ.)	0.3	0.34	0.41	0.54	0.74	dB	0.977

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: 0.709 pounds

Additional Weight per Inch: 0.00558 pounds

## **Mechanical Specifications**

## Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.709 lbs [321.6 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
Shield Layer 1
Aluminum Tape
Shield Layer 2
Tinned Copper Braid
Jacket Material
PE
Jacket Diameter
One Time Minimum Bend Radius
Copper Clad Adminded
PE (F)
Aluminum Tape
Tinned Copper Braid
PE
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]





## LCCA30293/WP

#### **Connectors**

Description	Connector 1	Connector 2
Туре	SMA Male	TNC Male
Option	Weatherproof Boot	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	Teflon	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		80 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		80 μin minimum
Boot Material	Silicone	Silicone

-40 to +85 deg C

## **Environmental Specifications**

Operating Range Temperature Ingress Protection (IP) Rating

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:

Values at 25°C, sea level.





## **LCCA30293/WP**

## **Typical Performance Data**

#### **How to Order**

Part Number Configuration:

LCCA30293/WP - xx uu

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

Example: LCCA30293/WP-12 = 12 inches long cable LCCA30293/WP-100cm = 100 cm long cable

Low Loss SMA Male to TNC Male 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/sma-male-tnc-male-cable-assembly-lcca30293-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.

# LCCA30293/WP CAD Drawing

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

