

#### LCCA30005-FT1

# Configuration

Connector 1: N MaleConnector 2: SMA MaleCable Type: 402SS Series

#### **Features**

- Max Frequency 18 GHz
- Shielding Effectivity > 110dB
- 70% Phase Velocity
- · Double Shielded
- FEP Jacket

# **Applications**

- General Purpose
- · Laboratory Use

- Wire Braid over Spiral Strip Shield
- Flexible Alternative to .141 Semi-Rigid
- Heavy Duty Heat Shrink Strain Relief Boot
- Precision Stainless Steel Connectors
- · Flexible RF Interconnect
- · Automated (ATE) Test Systems



# Description

L-com's Cable Assembly LCCA30005 is an N male to SMA male, 1.0 ft cable using 402SS Series coax with Heavy Duty Boot that ships same-day. L-com's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This L-com N to SMA cable assembly has a male to male gender configuration with 50 ohm flexible 402SS Series coax and operates to 18 GHz. Highly durable stainless-steel connectors and heavy-duty booting extend the life of this versatile flexible cable assembly. The double shield includes a silver plated copper braid over a silver plated copper spiral strip providing excellent shielding effectiveness greater than 110dB.

Custom versions of this cable assembly along with the rest of L-com's RF cable assemblies can be built and shipped same day. Other available RF cable assembly value added services 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 custom cable quotes.





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# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

# Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	5	10	18		GHz
Insertion Loss (Max.)	0.382	0.468	0.645	0.868		dB

# **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1\*SQRT(FGHz) dB for the N Type Male connector and 0.03\*SQRT(FGHz) dB for the SMA Male connector.

402SS Series

0.163 in [4.14 mm]

# **Mechanical Specifications**

# **Cable Assembly**

 Length
 12 in [304.8 mm]

 Diameter
 0.315 in [8 mm]

 Weight
 0.16 lbs [72.57 g]

# Cable

Cable Type

Jacket Diameter

Impedance 50 Ohms
Inner Conductor Type Stranded
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PTFE
Number of Shields 2
Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Silver Plated Copper Braid
Jacket Material FEP. Tan

Repeated Minimum Bend Radius 1 in [25.4 mm]





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# **Connectors**

Connector 1	Connector 2		
N Male	SMA Male		
MIL-STD-348A	MIL-STD-348A		
50 Ohms	50 Ohms		
Brass, Gold	Brass, Gold		
50 μin minimum	50 μin minimum		
PTFE	PTFE		
Brass, Nickel	Brass, Nickel		
100 µin minimum	100 µin minimum		
Brass, Nickel	Brass, Nickel		
100 µin minimum	100 µin minimum		
5/16 inch			
12 in-lbs [1.36 Nm]			
Heavy Duty Heat Shrink Boot	Heavy Duty Heat Shrink Boot		
	N Male MIL-STD-348A 50 Ohms Brass, Gold 50 µin minimum PTFE Brass, Nickel 100 µin minimum Brass, Nickel 100 µin minimum 5/16 inch 12 in-lbs [1.36 Nm]		

# **Environmental Specifications**

**Temperature** 

Operating Range -55 to +165 deg C

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

# **Plotted and Other Data**

Notes:

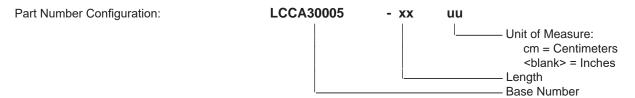
• Values at 25°C, sea level.





#### LCCA30005-FT1

#### **How to Order**



Example: LCCA30005-12 = 12 inches long cable

LCCA30005-100cm = 100 cm long cable

N Male to SMA Male Cable Using 402SS Series Coax with Heavy Duty Boot, 1.0 ft from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. 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.

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.ontained 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.

# **L-com CAD Drawing**

