

# **GLOBAL CONNECTIVITY SOLUTIONS**

SMA Male to N Female Bulkhead Cable Using 402SS Series Coax with Heavy Duty Boot, 1.5 ft

# LCCA30009-FT1.5

#### Configuration

- Connector 1: SMA Male
- Connector 2: N Female Bulkhead
- Cable Type: 402SS Series

#### **Features**

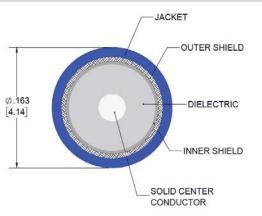
- Max Frequency 18 GHz
- Shielding Effectivity > 110dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

#### 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

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L-com's LCCA30009-FT1.5 is a SMA male to N female bulkhead cable using 402SS series coax with heavy duty boot, 1.5 ft and ships same-day. The 402SS series coax of this SMA cable uses the PTFE dielectric with a VoP of 70%. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com SMA to N cable assembly has a male to female gender configuration with flexible 402SS series series coax and operates to 18 GHz. The double shield of this SMA cable is layered by silver plated copper braid over silver plated copper tape providing excellent shielding effective-ness greater than 110dB. 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. L-com's flexible RF cable assembly LCCA30009 is an SMA male to N female bulkhead, 1.5 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 SMA to N cable assembly has a male to female gender configuration with 50 ohm flexible 402SS Series coax and operates to 18 GHz. Or RF cable assembly the N bulkhead interface allows designers to create external connections on their product enclosures, and operates to 18 GHz. Or RF cable assembly with N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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





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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.

Custom versions of this SMA male to SMA 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 LCCA30009-FT1.5 L-com SMA Male to N Female Bulkhead Cable Using 402SS Series Coax with Heavy Duty Boot, 1.5 ft data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

### **Electrical Specifications**

Units	Maximum U	Typical	Minimum	Description
GHz	18		DC	Frequency Range
	1.4:1			VSWR
%		70		Velocity of Propagation
dB			110	RF Shielding
pF/ft [pF/m]	pF/f	29.4 [96.46]		Capacitance
Vrms	500			Operating Voltage (AC)
		23.4 [50.40]		

## **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	3	5	10	18		GHz
Insertion Loss (Max.)	0.519	0.674	0.992	1.385		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 0.03\*SQRT(FGHz) dB for the SMA Male connector and 0.07\*SQRT(FGHz) dB for the N Female Bulkhead connector.

#### **Mechanical Specifications**

Cable Assembly Length Diameter	18 in [457.2 mm] 0.315 in [8 mm]
Weight	0.18 lbs [81.65 g]
<b>Cable</b> Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating	402SS Series 50 Ohms Stranded Copper, Silver





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Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter PTFE 2 Silver Plated Copper Tape Silver Plated Copper Braid FEP, Blue 0.163 in [4.14 mm]

1 in [25.4 mm]

Repeated Minimum Bend Radius

#### Connectors

Description	Connector 1	Connector 2
Туре	SMA Male	N Female Bulkhead
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
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, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum
Hex Size	5/16 inch	
Torque	12 in-lbs 1.36 Nm	
Boot Material	Heavy Duty Heat Shrink Boot	Heavy Duty Heat Shrink Boot

#### **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.





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## LCCA30009-FT1.5

#### How to Order

Part Number Configuration: LCCA30009 - xx uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number

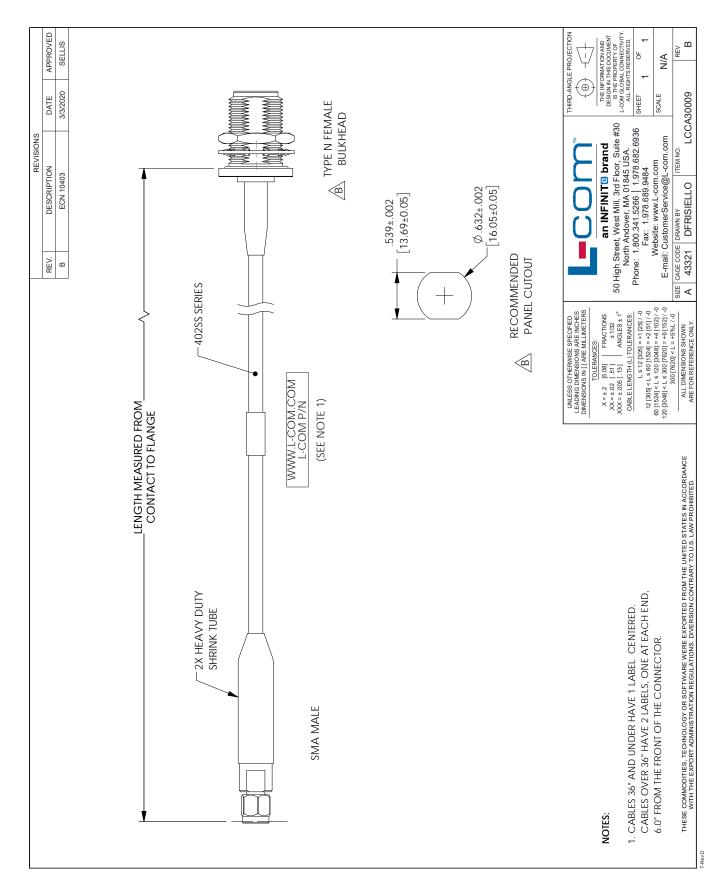
Example: LCCA30009-12 = 12 inches long cable LCCA30009-100cm = 100 cm long cable

SMA Male to N Female Bulkhead Cable Using 402SS Series Coax with Heavy Duty Boot, 1.5 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications 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 marken 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



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