

# **GLOBAL CONNECTIVITY SOLUTIONS**

Low Loss SMA Male to SMA Female Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 Coax, 4 FT

# LCCA30013-FT4

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Female
- Cable Type: LL142

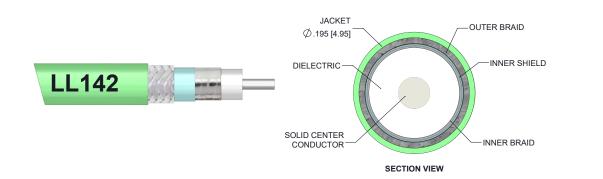
#### **Features**

- Max Frequency 18 GHz
- Shielding Effectivity > 95dB
- Low Loss Expanded PTFE Dielectric with 80% VoP

#### **Applications**

- General Purpose
- Laboratory Use
- Flexible RF Interconnect

- FEP Jacket
- Triple Shielded
- · Heavy Duty Heat Shrink Strain Relief Boot
- Automated (ATE) Test Systems
- Antenna Range Applications and Long Cable Runs



## Description

L-com's LCCA30013-FT4 is a low loss SMA male to SMA female cable assembly with heavy duty heat shrink boot using LL142 coax, 4 FT and ships same-day. The LL142 coax of this SMA cable uses the tape wrapped PTFE dielectric with a VoP of 80%, 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 SMA to SMA cable assembly has a male to female gender configuration with flexible LL142 series coax and operates to 18 GHz. The triple shield of this SMA cable is layered by silver plated copper braid over silver plated copper tape providing excellent shielding effectiveness greater than 95dB. Highly durable stainless-steel connectors and heavy-duty booting extend the life of these versatile, flexible SMA to SMA cables.

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 LCCA30013-FT4 L-com Low Loss SMA Male to SMA Female Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 Coax, 4 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



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# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		80		%
RF Shielding	95			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

# Description F1 F2 F3 F4 F5 Units Frequency 1 2 4.5 9 18 GHz Insertion Loss (Max.) 0.45 0.61 0.92 1.31 1.91 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 0.04\*SQRT(FGHz) dB per SMA male connector and as 0.05\*SQRT(FGHz) dB per SMA female connector.

# **Mechanical Specifications**

<b>Cable Assembly</b> Length Diameter	48 in [121.92 cm] 0.195 in [4.95 mm]
Weight	0.157 lbs [71.21 g]
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Shield Layer 3 Jacket Material Jacket Diameter	LL142 50 Ohms Solid Copper, Silver Tape wrapped PTFE 3 Silver Plated Copper Tape Aluminum Polyester Silver Plated Copper Braid FEP, Green 0.195 in [4.95 mm]
Repeated Minimum Bend Radius	0.975 in [24.77 mm]

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# Connectors

Description	Connector 1	Connector 2
Туре	SMA Male	SMA Female
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Passivated Stainless Steel
Outer Conductor Plating Specification		SAE-AMS-2700
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 inch	
Torque	10 in-lbs 1.13 Nm	
Boot Material	Heavy Duty Heat Shrink Boot	Heavy Duty Heat Shrink Boot

## **Environmental Specifications**

Temperature Operating Range

-55 to +200 deg C

Compliance Certifications (see product page for current document)

# **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

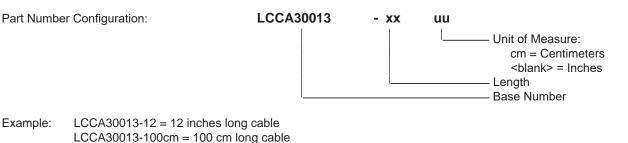


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## How to Order

Example:



Low Loss SMA Male to SMA Female Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 Coax, 4 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.

# Low Loss SMA Male to SMA Female Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 Coax, 4 FT

# L-com CAD Drawing

