

GLOBAL CONNECTIVITY SOLUTIONS

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

LCCA30016-FT4

Configuration

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

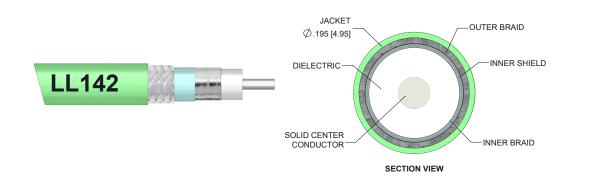
Features

- 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 LCCA30016-FT4 is a low loss SMA male to N male cable assembly with heavy duty heat shrink boot using LL142 coax, 4 FT and ships sameday. 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 N cable assembly has a male to male 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 N cables.

Custom versions of this SMA male to SMA male 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 LCCA30016-FT4 L-com Low Loss SMA Male to N Male 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.





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

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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]
Specifications by Free	quency			

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 N male connector.

Mechanical Specifications

Cable Assembly 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
Description	Connector	Connector 2
Туре	SMA Male	N Male
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
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	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Hex Size	5/16 inch	3/4 inch
Torque	10 in-lbs 1.13 Nm	21 in-lbs 2.37 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.



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

LCCA30016-100cm = 100 cm long cable

LCCA30016-FT4

How to Order

Example:

Part Number Configuration: LCCA30016 - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number LCCA30016-12 = 12 inches long cable

Low Loss SMA Male to N Male 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.

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. APPROVED THIRD-ANGLE PROJECTION SELLIS ∢ Ļ. R Ь A/A ~ $(\mathbf{\Phi})$ 12/20/19 SHEET DATE SCALE LCCA30016 TYPE N MALE 50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA. Phone: 1.800.341.5266 | 1.978.682.6936 PART NUMBEF REVISIONS E-mail: CustomerService@L-com.com an INFINIT® brand Website: www.L-com.com INITIAL RELEASE DESCRIPTION Fax: 1.978.689.9484 DRAWN BY CAGE CODE 1 43321 REV. ∢ A A L = 12 [305] = +1 [25] / -0 12 [305] = L = 120 [304] = -2 [51] / -0 60 [1524] = L = 120 [3048] = 44 [102] / -0 120 [3048] < L = 3300 [7620] = 46 [152] / -0 300 [7620] = 1 = +3%L / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONU. ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS ANCES: CABLE LENGTH (L) TOLERANCES $X = \pm .2$ [5.08] $XX = \pm .02$ [.51] $XXX = \pm .005$ [.13] ·LABEL -LOW LOSS FLEXIBLE LL142 COAX CABLE FROM CONTACT TO CONTACT WWW.L-COM.COM L-COM P/N SEE NOTE 1 LENGTH MEASURED THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END, 2X SHRINK TUBE 2 LAYERS 1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. 6.0" FROM THE FRONT OF THE CONNECTOR. SMA MALE NOTES: Rev.D

L-com CAD Drawing