

SMA Female to N Female Bulkhead Cable
Assembly using LC141TB Coax, 6 FT



LCCA30418-FT6

Configuration

- Connector 1: SMA Female
- Connector 2: N Female Bulkhead
- Cable Type: LC141TB

Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.9% VoP
- Hand Formable
- Tin Filled Copper Braid Outer Conductor

Applications

- General Purpose
- Laboratory Use
- System Interconnect



Description

L-com's LCCA30418-FT6 is a SMA female to N female bulkhead cable assembly using LC141TB coax, 6 FT and ships same-day. The LC141TB coax of this SMA cable uses the PTFE dielectric with a VoP of 69.5%. These formable RF cable assemblies are a great alternative to expensive semi-rigid assemblies because they can be hand formed to fit specific designs. Our L-com SMA to N cable assembly has a female to female gender configuration with formable LC141TB series coax and operates to 10 GHz. The outer conductor is easily formed by hand with an overall diameter of inches and excellent shielding effectiveness greater than 100dB. 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.

Custom versions of this SMA female 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 LCCA30418-FT6 L-com SMA Female to N Female Bulkhead Cable Assembly using LC141TB Coax, 6 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 | | 10 | GHz |
| VSWR | | | 1.45:1 | |
| Velocity of Propagation | | 69.5 | | % |
| RF Shielding | 100 | | | dB |
| Group Delay | | 1.43 [4.69] | | ns/ft [ns/m] |
| Capacitance | | 29 [95.14] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|-----|------|-----|-------|
| Frequency | 0.5 | 1 | 2.5 | 5 | 10 | GHz |
| Insertion Loss (Max.) | 0.68 | 0.92 | 1.3 | 1.94 | 2.9 | 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 includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|----------|----------------------|
| Length | 72 in [182.88 cm] |
| Diameter | 0.866 in [22 mm] |
| Weight | 0.0834 lbs [37.83 g] |

Cable

| | |
|--------------------------------------|---------------------|
| Cable Type | LC141TB |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Tinned Copper Braid |
| One Time Minimum Bend Radius | 0.315 in [8 mm] |
| Repeated Minimum Bend Radius | 1.57 in [39.88 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|------------------------|-----------------------|
| Type | SMA Female | N Female Bulkhead |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Phosphor Bronze, Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Gold | Brass, Nickel |

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

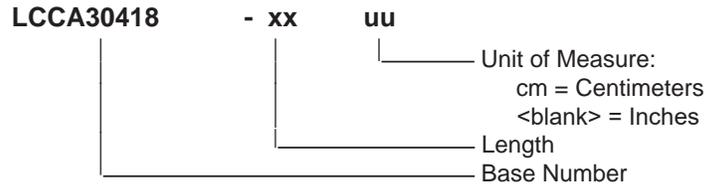
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LCCA30418-FT6

How to Order

Part Number Configuration:



Example: LCCA30418-12 = 12 inches long cable
LCCA30418-100cm = 100 cm long cable

SMA Female to N Female Bulkhead Cable Assembly using LC141TB Coax, 6 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 implement 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 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 implement 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.

SMA Female to N Female Bulkhead Cable Assembly using LC141TB Coax, 6 FT

L-com CAD Drawing

| REVISIONS | | DATE | APPROVED |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 04/24/2020 | SELLIS |

LENGTH MEASURED FROM CONTACT TO FLANGE

SMA FEMALE

N FEMALE BULKHEAD

MOUNTING HOLE

WWW.L-COM.COM
L-COM P/N
SEE NOTE 1

| | | | |
|---|--|--|--------------------|
| <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X ± .2 [.50] FRACTIONS ± 1/32</p> <p>.XX ± .02 [.51] ANGLES ± 1°</p> <p>.XXX ± .005 [.13] CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0</p> <p>12 [305] < L ≤ 60 [1524] = +2 [51] / -0</p> <p>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</p> <p>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</p> <p>300 [7620] < L = +5%L / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | <p>L-comTM an INFINITE brand</p> <p>50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA. Phone: 1.800.341.5266 1.978.682.6936 Fax: 1.978.689.9484 Website: www.L-com.com E-mail: CustomerService@L-com.com</p> | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> | |
| SIZE A | CAGE CODE 43321 | DRAWN BY DZINN | ITEM NO. LCCA30418 |
| | | | REV A |

NOTES:

- CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE FRONT OF THE CONNECTOR.

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