

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



LCCA30075-FT6

Configuration

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

Features

- Max Frequency 18 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 LCCA30075-FT6 is a SMA male to SMA 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 SMA cable assembly has a male to female gender configuration with formable LC141TB series coax and operates to 18 GHz. The tinned copper braid outer conductor is easily formed by hand with an overall diameter of 0.141 inches and excellent shielding effectiveness greater than 110dB. L-com's RF cable assembly with SMA 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 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 LCCA30075-FT6 L-com SMA Male to SMA 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		18	GHz
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.92	1.18	1.82	2.71	4.1	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 dB per connector.

Mechanical Specifications

Cable Assembly

Length 72 in [182.88 cm]
Diameter 0.025 in [0.64 mm]

Cable

Cable Type LC141TB
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PTFE
Number of Shields 0
Outer Conductor Material and Plating Tinned Copper Braid
Outer Conductor Diameter 0.141 in [3.58 mm]

Repeated Minimum Bend Radius 0.625 in [15.88 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material and Plating		Beryllium Copper, Gold over Nickel
Dielectric Type		PTFE
Outer Conductor Material and Plating		Brass, Gold over Nickel
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 inch	
Torque	10 in-lbs 1.13 Nm	

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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LCCA30075-FT6

How to Order

Part Number Configuration:

LCCA30075 - xx uu



Example: LCCA30075-12 = 12 inches long cable
LCCA30075-100cm = 100 cm long cable

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

L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	01/31/2020
		APPROVED SELLIS

LENGTH MEASURED FROM CONTACT TO FLANGE

LC141TB FORMABLE CABLE

SMA MALE

SMA FEMALE BULKHEAD

WWW.L-COM.COM
L-COM P/N

(SEE NOTE 1)

RECOMMENDED PANEL CUTOUT

.238
.233
[6.05]
[5.92]

Ø .260
.255
[6.60]
[6.48]

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X ± .2	[5.08]	FRACTIONS	± 1/32
.XX ± .02	[.51]	ANGLES	± 1°
.XXX ± .005	[.13]		

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	± 1 [25] / -0
12 [305] < L ≤ 60 [1524]	± 2 [61] / -0
60 [1524] < L ≤ 120 [3048]	± 4 [102] / -0
120 [3048] < L ≤ 300 [7620]	± 6 [152] / -0
300 [7620] < L	± 9% [L] / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	PART NUMBER
A	43321	MVEERAPPAN	LCCA30075

REV A