

GLOBAL CONNECTIVITY SOLUTIONS

BNC Female to BNC Female Bulkhead Cable Assembly using LC085TB Coax, 5 FT

LCCA30130-FT5

Configuration

- Connector 1: BNC Female
- Connector 2: BNC Female Bulkhead
- Cable Type: LC085TB

Features

- Max Frequency 20 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.5% VoP

Applications

- General Purpose
- Laboratory Use

- Hand Formable
- Tin Filled Copper Composite Braid Outer Conductor
- System Interconnect



Description

L-com's LCCA30130-FT5 is a BNC female to BNC female bulkhead cable assembly using LC085TB coax, 5 FT and ships same-day. The LC085TB coax of this BNC 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 BNC to BNC cable assembly has a female to female gender configuration with formable LC085TB series coax and operates to 20 GHz. The tinned copper composite braid outer conductor is easily formed by hand with an overall diameter of 0.085 inches and excellent shielding effectiveness greater than 100dB. L-com's RF cable assembly with BNC 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 BNC female to BNC 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 LCCA30130-FT5 L-com BNC Female to BNC Female Bulkhead Cable Assembly using LC085TB Coax, 5 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





BNC Female to BNC Female Bulkhead Cable Assembly using LC085TB Coax, 5 FT

FEL

LCCA30130-FT5

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		20	GHz
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Con	ductor	65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Cor	ductor	10.2 [33.46]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	20	GHz
Insertion Loss (Max.)	1.33	1.73	2.75	4	6.2	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	
Longth	

Length Diameter

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Outer Conductor Material and Plating Outer Conductor Diameter

Repeated Minimum Bend Radius

60 in [152.4 cm] 0.013 in [0.33 mm]

LC085TB 50 Ohms Solid Copper Clad Steel, Silver PTFE 0 Tinned Copper Composite Braid 0.085 in [2.16 mm]

0.78 in [19.81 mm]



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Connectors

Description	Connector 1	Connector 2
Туре	BNC Female	BNC Female Bulkhead
Impedance	50 Ohms	50 Ohms
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Body Material and Plating	Brass, Nickel	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.

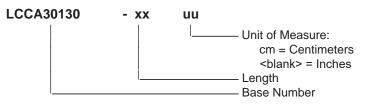


BNC Female to BNC Female Bulkhead Cable Assembly using LC085TB Coax, 5 FT

LCCA30130-FT5

How to Order

Part Number Configuration:



Example: LCCA30130-12 = 12 inches long cable LCCA30130-100cm = 100 cm long cable

BNC Female to BNC Female Bulkhead Cable Assembly using LC085TB Coax, 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 does not marranty regarding the suitability of 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.

APPROVED THIRD-ANGLE PROJECTION THE INFORMATION AND DESIGN IN THIS DOCUMENT SELLIS IS THE PROPERTY OF -COM GLOBAL CONNECTIVI ALL RIGHTS RESERVED. ∢ Ļ. R Ь A/A ~ $(\mathbf{\Phi})$ 01/31/2020 DATE **BNC FEMALE BULKHEAD** SHEET SCALE LCCA30130 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 REVISIONS PART NUMBEF E-mail: CustomerService@L-com.com an INFINIT® brand Website: www.L-com.com INITIAL RELEASE DESCRIPTION 43321 MVEERAPPAN DRAWN BY CAGE CODE REV. ∢ A L = 12 [305] = +1 [25] / -0 12 [305] - L = 200 [324] = -2 [51] / -0 60 [1224] - L = 120 [3048] = +4 [102] / -0 120 [3048] - L = 300 [7620] = +6 [152] / -0 300 [7620] = L = 5% L / -0 ALL DIMENSIONS SHOWN ARE POR REFERENCE ONLY. ± 1/32 ANGLES ± 1° UNLESS OT HERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS ERANCES: 08] | FRACTIONS CABLE LENGTH (L) TOLERANCES. WWW.L-COM.COM $X = \pm .2$ [5.08] $XX = \pm .02$ [.51] $XXX = \pm .005$ [.13] (SEE NOTE 1) L-COM P/N FROM CONTACT TO FLANGE -LABEL LENGTH MEASURED LC085TB FORMABLE CABLE 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. .480 .475 12.19 12.07 $\phi_{.500}^{.505}$ [12.83] 12.70 RECOMMENDED **PANEL CUTOUT** CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END, 1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. 6.0" FROM THE FRONT OF THE CONNECTOR. **BNC FEMALE** NOTES:

L-com CAD Drawing