



LCCA30141-FT3

Configuration

- · Connector 1: N Male
- Connector 2: N Female Bulkhead
- · Cable Type: LC085TBJ

Features

- Max Frequency 11 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.5% VoP

Applications

- General Purpose
- · Laboratory Use

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



Description

L-com's LCCA30141-FT3 is a N male to N female bulkhead cable assembly using LC085TBJ coax, 3 FT and ships same-day. The LC085TBJ coax of this N 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 N to N cable assembly has a male to female gender configuration with formable LC085TBJ series coax and operates to 11 GHz. The jacketed tinned copper composite braid outer conductor is easily formed by hand with an overall diameter of 0.105 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 N male to N 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 LCCA30141-FT3 L-com N Male to N Female Bulkhead Cable Assembly using LC085TBJ Coax, 3 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





LCCA30141-FT3

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		11	GHz
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
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	nductor	10.2 [33.46]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			1,500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	11	GHz
Insertion Loss (Max.)	0.65	0.88	1.25	1.85	2.76	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
 36 in [914.4 mm]

 Diameter
 0.105 in [2.67 mm]

Cable

Cable TypeLC085TBJImpedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type PTFE
Number of Shields 0

Outer Conductor Material and Plating Tinned Copper Composite Braid

Outer Conductor Diameter 0.085 in [2.16 mm]

Jacket Material FEP

Jacket Diameter 0.105 in [2.67 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]





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Repeated Minimum Bend Radius

0.787 in [19.99 mm]

Connectors

Connector 1	Connector 2		
N Male	N Female Bulkhead		
50 Ohms	50 Ohms		
Brass, Gold over Nickel	Phosphor Bronze, Gold over Nickel		
PTFE	PTFE		
	Brass, Nickel		
Brass, Nickel	Brass, Nickel		
Brass, Nickel			
	N Male 50 Ohms Brass, Gold over Nickel PTFE 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:

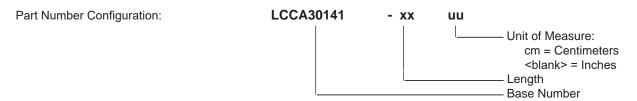
• Values at 25°C, sea level.





LCCA30141-FT3

How to Order



Example: LCCA30141-12 = 12 inches long cable

LCCA30141-100cm = 100 cm long cable

N Male to N Female Bulkhead Cable Assembly using LC085TBJ Coax, 3 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.

L-com CAD Drawing

