Low Loss TNC Male to TNC Male Cable Assembly with Heavy Duty Heat Shrink Boot using LL335i Coax, 2 FT

LCCA30044-FT2

Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male
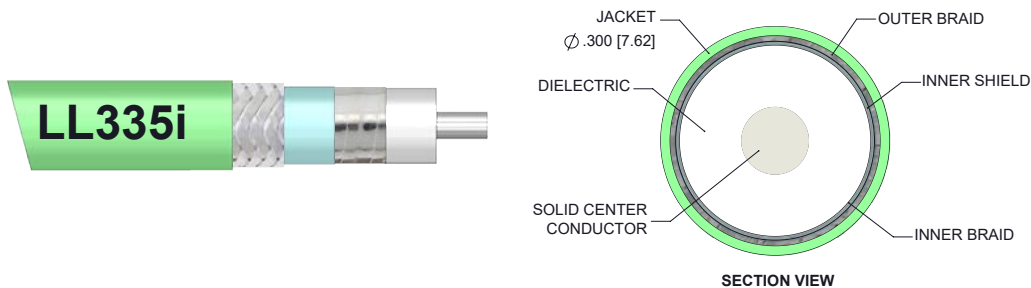- Cable Type: LL335i

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 95dB
- Low Loss Expanded PTFE Dielectric with 83% VoP
- FEP Jacket
- Triple Shielded
- Heavy Duty Heat Shrink Strain Relief Boot

Applications

- General Purpose
- Laboratory Use
- Flexible RF Interconnect
- Automated (ATE) Test Systems
- Antenna Range Applications and Long Cable Runs

SECTION VIEW

Description

L-com's LCCA30044-FT2 is a low loss TNC male to TNC male cable assembly with heavy duty heat shrink boot using LL335i coax, 2 FT and ships same-day. The LL335i coax of this TNC cable uses the tape wrapped PTFE dielectric with a VoP of 83%, 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 TNC to TNC cable assembly has a male to male gender configuration with flexible LL335i series coax and operates to 18 GHz. The triple shield of this TNC 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 TNC to TNC cables.

Custom versions of this TNC male to TNC 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 LCCA30044-FT2 L-com Low Loss TNC Male to TNC Male Cable Assembly with Heavy Duty Heat Shrink Boot using LL335i Coax, 2 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

USA & Canada **+1(800) 341-5266** | International **+1(978) 682-6936** | l-com.com

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LCCA30044-FT2

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		83		%
RF Shielding	95			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.2	0.28	0.41	0.58	0.84	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 TNC male connector.

Mechanical Specifications

Cable Assembly
 Length   24 in [609.6 mm]
Diameter   0.3 in [7.62 mm]

Weight   0.139 lbs [63.05 g]

Cable
Cable Type   LL335i
Impedance   50 Ohms
Inner Conductor Type   Solid
Inner Conductor Material and Plating   Copper, Silver
Dielectric Type   Tape wrapped PTFE
Number of Shields   3
Shield Layer 1   Silver Plated Copper Tape
Shield Layer 2   Aluminum Polyester
Shield Layer 3   Silver Plated Copper Braid
Jacket Material   FEP, Green
Jacket Diameter   0.3 in [7.62 mm]

Repeated Minimum Bend Radius   1.5 in [38.1 mm]

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LCCA30044-FT2

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male
Specification	MIL-STD-348	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	9/16 inch	9/16 inch
Torque	21 in-lbs 2.37 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 TNC Male to TNC Male Cable Assembly with Heavy Duty Heat Shrink Boot using LL335i Coax, 2 FT

LCCA30044-FT2

How to Order

Part Number Configuration: **LCCA30044   - xx   uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: LCCA30044-12 = 12 inches long cable
LCCA30044-100cm = 100 cm long cable

Low Loss TNC Male to TNC Male Cable Assembly with Heavy Duty Heat Shrink Boot using LL335i Coax, 2 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.

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Low Loss TNC Male to TNC Male Cable Assembly with Heavy Duty Heat Shrink Boot using LL335i Coax, 2 FT

L-com CAD Drawing

TNC MALE

TNC MALE

LENGTH MEASURED
FROM CONTACT TO CONTACT

LABEL

LOW LOSS FLEXIBLE
LL335i COAX CABLE

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

SEE NOTE 1

2X SHRINK TUBE
2 LAYERS

NOTES:

1. 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.

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/23/19	SELLIS

L-com™
an INFINITe brand

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THIRD-ANGLE PROJECTION

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SHEET	1	OF	1

SCALE   N/A   REV   A

SIZE	CAGE CODE	DRAWN BY	PART NUMBER	
A	43321	DZINN	LCCA30044	REV A

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

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

CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

T-Rev.D

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