

BNC Female to TNC Male Right Angle Cable
Assembly using LC085TBJ Coax, 6 FT



LCCA30659-FT6

Configuration

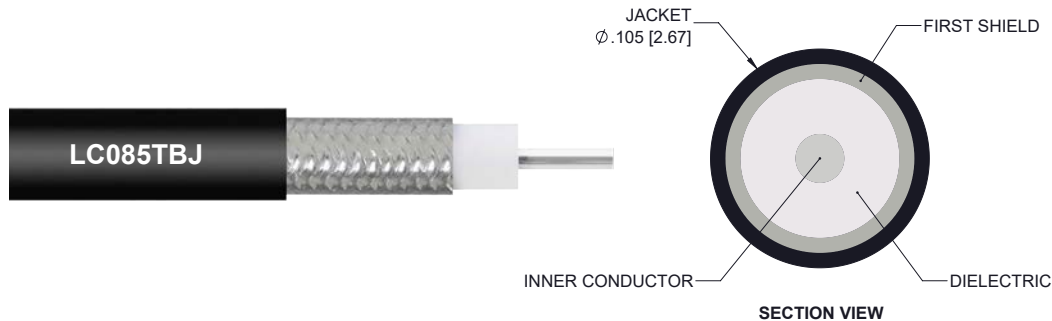
- Connector 1: BNC Female
- Connector 2: TNC Male Right Angle
- Cable Type: LC085TBJ

Features

- Max Frequency 1 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.5% VoP
- Hand Formable
- Tin Filled Copper Composite Braid Outer Conductor
- FEP Jacket

Applications

- General Purpose
- Laboratory Use
- System Interconnect



Description

L-com's LCCA30659-FT6 is a BNC female to TNC male right angle cable assembly using LC085TBJ coax, 6 FT and ships same-day. The LC085TBJ 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 TNC cable assembly has a female to male gender configuration with formable LC085TBJ series coax and operates to 1 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. This right angle TNC cable interface on the LC085TBJ coax allows for easier connections in tight spaces.

Custom versions of this BNC female to BNC 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 LCCA30659-FT6 L-com BNC Female to TNC Male Right Angle Cable Assembly using LC085TBJ 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 | | 1,000 | MHz |
| 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] |
| DC Resistance Inner Conductor | | 65.7 [215.55] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 10.2 [33.46] | | Ohms/1000ft [Ohms/Km] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-----|-------|----|----|----|-------|
| Frequency | 500 | 1,000 | | | | MHz |
| Insertion Loss (Typ.) | 1.2 | 1.68 | | | | 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 for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Length 72 in [182.88 cm]

Cable

Cable Type LC085TBJ
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Outer Conductor Material and Plating Tinned Copper Composite Braid
 Jacket Material FEP, Black
 Jacket Diameter 0.105 in [2.67 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]
 Repeated Minimum Bend Radius 0.787 in [19.99 mm]

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|-----------------|-------------------------|
| Type | BNC Female | TNC Male Right Angle |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold over Nickel |
| Contact Plating Specification | 30 µin minimum | |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 µin minimum | |
| Coupling Nut Material and Plating | | Brass, Nickel |
| Seal Gasket Material | Silicone | |

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

Plotted and Other Data

Notes:

BNC Female to TNC Male Right Angle Cable Assembly using LC085TBJ Coax, 6 FT



LCCA30659-FT6

How to Order

Part Number Configuration:

LCCA30659 - xx uu

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

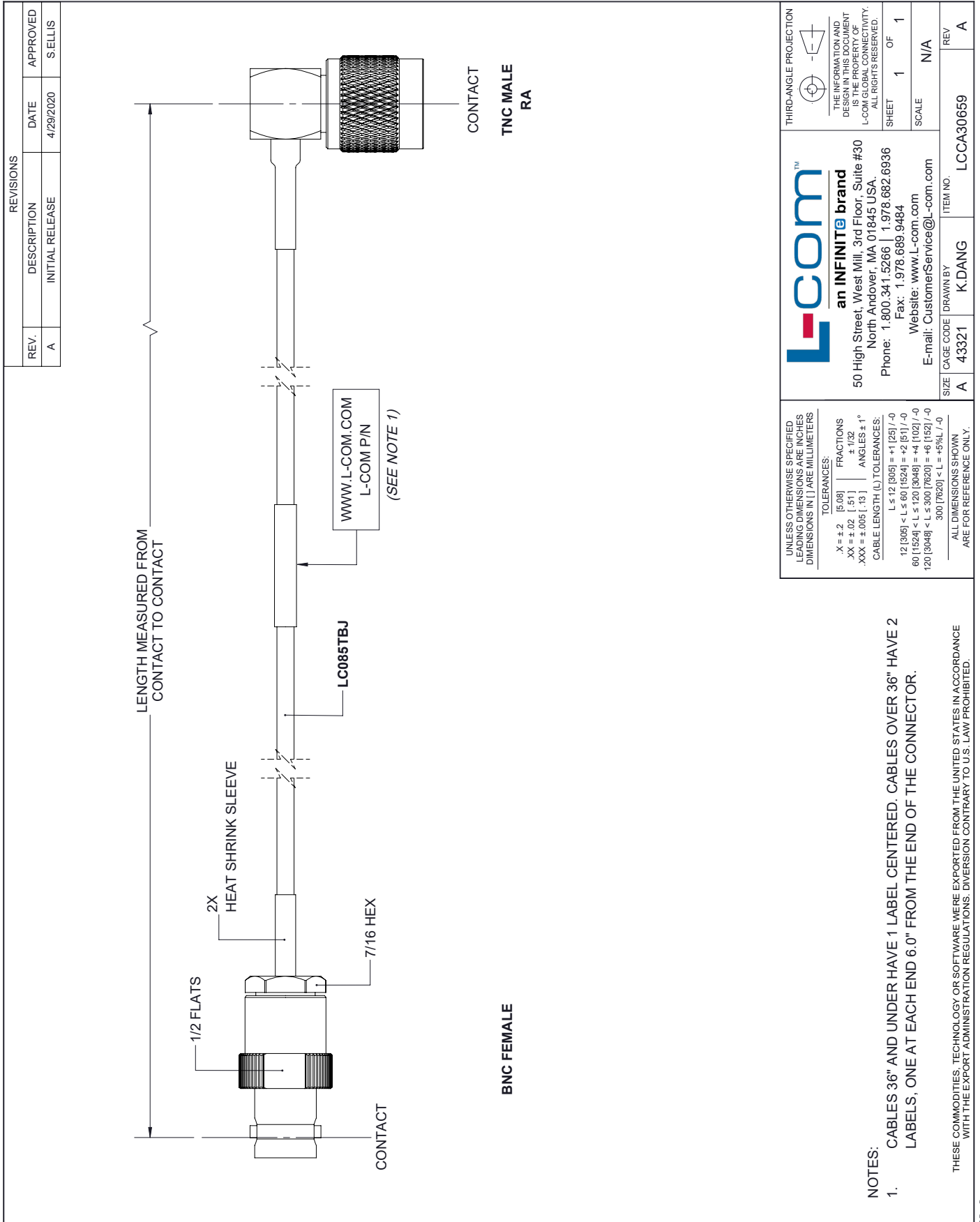
Example: LCCA30659-12 = 12 inches long cable
LCCA30659-100cm = 100 cm long cable

BNC Female to TNC Male Right Angle Cable Assembly using LC085TBJ 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 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.

BNC Female to TNC Male Right Angle Cable Assembly using LC085TBJ Coax, 6 FT

L-com CAD Drawing



| REVISIONS | | |
|-----------|-----------------|-----------|
| REV. | DESCRIPTION | DATE |
| A | INITIAL RELEASE | 4/29/2020 |
| | | APPROVED |
| | | S.ELLIS |

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| <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> |
| | <p>SIZE A</p> <p>CAGE CODE 43321</p> <p>DRAWN BY K.DANG</p> <p>ITEM NO. LCCA30659</p> <p>REV A</p> |

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

TOLERANCES:

.X = ±.2 [.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 [51] / -0

60 [1524] < L ≤ 120 [3048] = -4 [102] / -0

120 [3048] < L ≤ 300 [7620] = -6 [152] / -0

300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

NOTES:

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

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