

SMA Male Right Angle to TNC Male Right Angle Cable Assembly using LC085TBJ Coax, 6 FT with HeatShrink



LCCA30625-FT6

Configuration

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

Features

- Max Frequency 6 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 LCCA30625-FT6 is a SMA male right angle to TNC male right angle cable assembly using LC085TBJ coax, 6 FT with heatshrink and ships same-day. The LC085TBJ 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 TNC cable assembly has a male to male gender configuration with formable LC085TBJ series coax and operates to 6 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 SMA and TNC cable interface on the LC085TBJ coax allows for easier connections in tight spaces.

Custom versions of this SMA male to SMA 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 LCCA30625-FT6 L-com SMA Male Right Angle to TNC Male Right Angle Cable Assembly using LC085TBJ Coax, 6 FT with HeatShrink 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		6	GHz
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	0.5	1	2.5	6		GHz
Insertion Loss (Typ.)	1.3	1.8	2.5	3.52		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 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Length	72 in [182.88 cm]
Diameter	0.591 in [15.01 mm]

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	SMA Male Right Angle	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Contact Plating Specification	0.2 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold over Nickel	Brass, Nickel
Body Plating Specification	0.1 µin minimum	
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Nickel
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

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

Plotted and Other Data

Notes:

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LCCA30625-FT6

How to Order

Part Number Configuration:

LCCA30625

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

Example: LCCA30625-12 = 12 inches long cable
LCCA30625-100cm = 100 cm long cable

SMA Male Right Angle to TNC Male Right Angle Cable Assembly using LC085TBJ Coax, 6 FT with HeatShrink 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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L-com CAD Drawing

