Low Loss TNC Male to SMA Male Right Angle Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 Coax, 6 FT

LCCA30025-FT6

Configuration

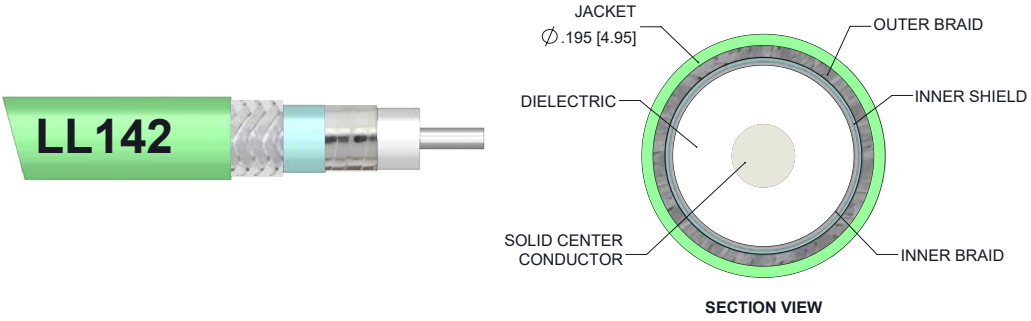
- Connector 1: TNC Male
- Connector 2: SMA Male Right Angle
- Cable Type: LL142

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 95dB
- Low Loss Expanded PTFE Dielectric with 80% 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



Description

L-com's LCCA30025-FT6 is a low loss TNC male to SMA male right angle cable assembly with heavy duty heat shrink boot using LL142 coax, 6 FT and ships same-day. The LL142 coax of this TNC cable uses the tape wrapped PTFE dielectric with a VoP of 80%, 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 SMA cable assembly has a male to male gender configuration with flexible LL142 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. This right angle SMA cable interface on the LL142 coax allows for easier connections in tight spaces. Highly durable stainless-steel connectors and heavy-duty booting extend the life of these versatile, flexible TNC to SMA 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 LCCA30025-FT6 L-com Low Loss TNC Male to SMA Male Right Angle Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 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		18	GHz
VSWR			1.35:1	
Velocity of Propagation		80		%
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.)	0.79	1	1.39	1.91	2.7	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 0.05*SQRT(FGHz) dB per TNC male connector and as 0.2 dB per SMA male right angle connector.

Mechanical Specifications

Cable Assembly

Length	72 in [182.88 cm]
Diameter	0.195 in [4.95 mm]
Weight	0.217 lbs [98.43 g]

Cable

Cable Type	LL142
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	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	0.975 in [24.77 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	SMA Male Right Angle
Specification	MIL-STD-348	MIL-PRF-39012
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	PEI	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	5/16 inch
Torque	15 in-lbs 1.7 Nm	8 in-lbs 0.9 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.

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How to Order

Part Number Configuration: **LCCA30025 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- LCCA30025 — Base Number

Example: LCCA30025-12 = 12 inches long cable
LCCA30025-100cm = 100 cm long cable

Low Loss TNC Male to SMA Male Right Angle Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 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.

Low Loss TNC Male to SMA Male Right Angle Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 Coax, 6 FT

L-com CAD Drawing