

GLOBAL CONNECTIVITY SOLUTIONS

Low Loss SMA Male to TNC Male Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 Coax, 3 FT

LCCA30014-FT3

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- · Cable Type: LL142

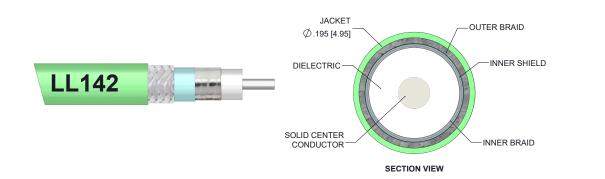
Features

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

Applications

- General Purpose
- Laboratory Use
- Flexible RF Interconnect

- FEP Jacket
- Triple Shielded
- · Heavy Duty Heat Shrink Strain Relief Boot
- Automated (ATE) Test Systems
- Antenna Range Applications and Long Cable Runs



Description

L-com's LCCA30014-FT3 is a low loss SMA male to TNC male cable assembly with heavy duty heat shrink boot using LL142 coax, 3 FT and ships sameday. The LL142 coax of this SMA 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 SMA to TNC cable assembly has a male to male gender configuration with flexible LL142 series coax and operates to 18 GHz. The triple shield of this SMA 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 heavyduty booting extend the life of these versatile, flexible SMA to TNC cables.

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 LCCA30014-FT3 L-com Low Loss SMA Male to TNC Male Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 Coax, 3 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



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Low Loss SMA Male to TNC Male Cable Assembly with Heavy Duty Heat Shrink Boot using LL142 Coax, 3 FT

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| 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 | | | | |
| | | | | |

F4 **F2** Frequency 1 2 4.5 9 18 GHz Insertion Loss (Max.) 0.36 0.49 0.74 1.05 1.53 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 SMA male connector and as 0.05*SQRT(FGHz) dB per TNC male connector.

Mechanical Specifications

| Cable Assembly Length Diameter | 36 in [914.4 mm] 0.195 in [4.95 mm] |
|--|--|
| Weight | 0.127 lbs [57.61 g] |
| Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Shield Layer 3 Jacket Material Jacket Diameter | LL142 50 Ohms Solid Copper, Silver Tape wrapped PTFE 3 Silver Plated Copper Tape Aluminum Polyester Silver Plated Copper Braid FEP, Green 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 |
|------------------------------------|------------------------------------|------------------------------------|
| Туре | SMA 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 | PEI |
| 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 | 5/16 inch | 9/16 inch |
| Torque | 10 in-lbs 1.13 Nm | 15 in-lbs 1.7 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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LCCA30014-FT3

How to Order

Example:

Part Number Configuration: LCCA30014 - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number LCCA30014-12 = 12 inches long cable LCCA30014-100cm = 100 cm long cable

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



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L-com CAD Drawing

