

LCCA30002-FT1.5



Configuration

Connector 1: SMA MaleConnector 2: SMA FemaleCable Type: 402SS Series

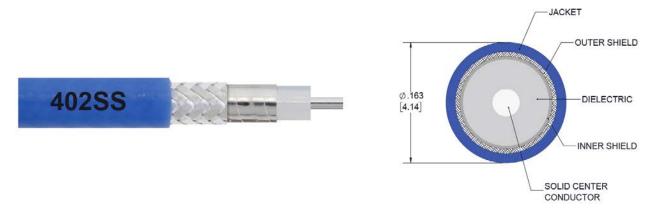
Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110dB
- 70% Phase Velocity
- · Double Shielded
- FEP Jacket

Applications

- · General Purpose
- · Laboratory Use

- · Wire Braid over Spiral Strip Shield
- Flexible Alternative to .141 Semi-Rigid
- Heavy Duty Heat Shrink Strain Relief Boot
- Precision Stainless Steel Connectors
- Flexible RF Interconnect
- · Automated (ATE) Test Systems



Description

L-com's LCCA30002-FT1.5 is a SMA male to SMA female cable using 402SS series coax with heavy duty boot, 1.5 ft and ships same-day. The 402SS series coax of this SMA cable uses the PTFE dielectric with a VoP of 70%. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com SMA to SMA cable assembly has a male to female gender configuration with flexible 402SS series series coax and operates to 18 GHz. The double shield of this SMA cable is layered by silver plated copper braid over silver plated copper tape providing excellent shielding effectiveness greater than 110dB. L-com's Cable Assembly LCCA30002 is an SMA male to SMA female, 1.5 ft cable using 402SS Series coax with Heavy Duty Boot that ships same-day. L-com's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This L-com SMA to SMA cable assembly has a male to female gender configuration with 50 ohm flexible 402SS Series coax and operates to 18 GHz. Highly durable stainless-steel connectors and heavy-duty booting extend the life of this versatile flexible cable assembly. The double shield includes a silver plated copper braid over a silver plated copper spiral strip providing excellent shielding effectiveness greater than 110dB.

Custom versions of this cable assembly along with the rest of L-com's RF cable assemblies can be built and shipped same day. Other available RF cable assembly value added services 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 custom cable quotes.

Custom versions of this SMA male to SMA female cable, along with the rest of L-com's other RF assemblies, can also be built and shipped same day.





LCCA30002-FT1.5

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 LCCA30002-FT1.5 L-com SMA Male to SMA Female Cable Using 402SS Series Coax with Heavy Duty Boot, 1.5 ft data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 18 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 70 | | % |
| RF Shielding | 110 | | | dB |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| | | | | |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|----|-------|
| Frequency | 3 | 5 | 10 | 18 | | GHz |
| Insertion Loss (Max.) | 0.449 | 0.585 | 0.865 | 1.215 | | 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 0.03*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

 Length
 18 in [457.2 mm]

 Diameter
 0.315 in [8 mm]

 Weight
 0.11 lbs [49.9 g]

Cable

Cable Type 402SS Series
Impedance 50 Ohms
Inner Conductor Type Stranded
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PTFE

Number of Shields 2
Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Silver Plated Copper Braid



(a)

LCCA30002-FT1.5

Jacket Material FEP, Blue

Jacket Diameter 0.163 in [4.14 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

Connectors

| Description | Connector 1 | Connector 2 | |
|------------------------------------|-----------------------------|-----------------------------|--|
| Туре | SMA Male | SMA Female | |
| Specification | MIL-STD-348A | MIL-STD-348A | |
| Impedance | 50 Ohms | 50 Ohms | |
| Contact Material and Plating | Brass, Gold | Brass, Gold | |
| Contact Plating Specification | 50 μin minimum | 50 μin minimum | |
| Dielectric Type | PTFE | PTFE | |
| Body Material and Plating | Brass, Nickel | Brass, Nickel | |
| Body Plating Specification | 100 μin minimum | 100 μin minimum | |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel | |
| Coupling Nut Plating Specification | 100 μin minimum | 100 μin minimum | |
| Hex Size | 5/16 inch | | |
| Torque | 12 in-lbs 1.36 Nm | | |
| Boot Material | Heavy Duty Heat Shrink Boot | Heavy Duty Heat Shrink Boot | |

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

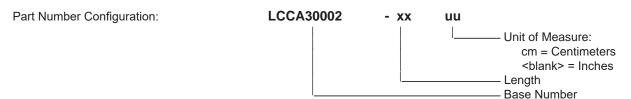
Notes:

Values at 25°C, sea level.



LCCA30002-FT1.5

How to Order



Example: LCCA30002-12 = 12 inches long cable

LCCA30002-100cm = 100 cm long cable

SMA Male to SMA Female Cable Using 402SS Series Coax with Heavy Duty Boot, 1.5 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 instock 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.

L-com CAD Drawing

