



SMA Male to SMA Female Cable Using 402SS Series Coax with Heavy Duty Boot, 6.0 ft

LCCA30002-FT6

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Female
- Cable 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 Cable Assembly LCCA30002 is an SMA male to SMA female, 6.0 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.



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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.)	1.484	1.935	2.89	4.095		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 Diameter	72 in [182.88 cm] 0.315 in [8 mm]
Weight	0.26 lbs [117.93 g]
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter	402SS Series 50 Ohms Stranded Copper, Silver PTFE 2 Silver Plated Copper Tape Silver Plated Copper Braid FEP, Tan 0.163 in [4.14 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]



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Connectors

Connector 1	Connector 2	
SMA Male	SMA Female	
MIL-STD-348A	MIL-STD-348A	
50 Ohms	50 Ohms	
Brass, Gold	Brass, Gold	
50 µin minimum	50 µin minimum	
PTFE	PTFE	
Brass, Nickel	Brass, Nickel	
100 µin minimum	100 µin minimum	
Brass, Nickel	Brass, Nickel	
100 µin minimum	100 µin minimum	
5/16 inch		
12 in-lbs [1.36 Nm]		
Heavy Duty Heat Shrink Boot	Heavy Duty Heat Shrink Boot	
	MIL-STD-348A 50 Ohms Brass, Gold 50 µin minimum PTFE Brass, Nickel 100 µin minimum Brass, Nickel 100 µin minimum 5/16 inch 12 in-lbs [1.36 Nm]	

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.



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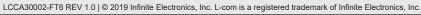
How to Order

Part Number Configuration: LCCA30002 - xx uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number

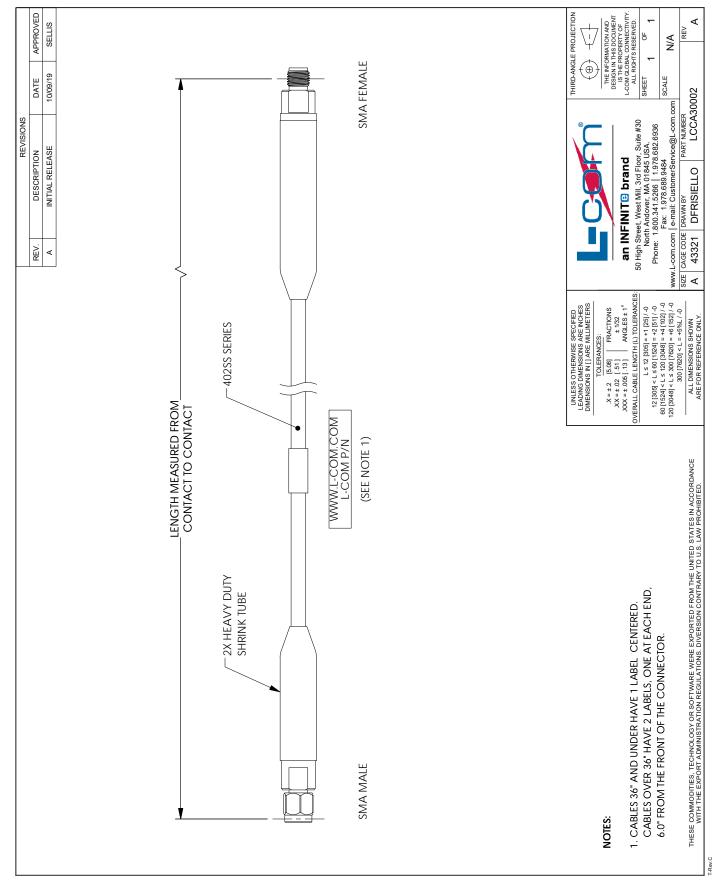
Example: LCCA30002-12 = 12 inches long cable LCCA30002-100cm = 100 cm long cable

SMA Male to SMA Female Cable Using 402SS Series Coax with Heavy Duty Boot, 6.0 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.

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L-com CAD Drawing



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