

LCCA31005-M3

Configuration

Connector 1: 7/16 DIN Male
Connector 2: 7/16 DIN Male
Cable Type: SPF-250-LC

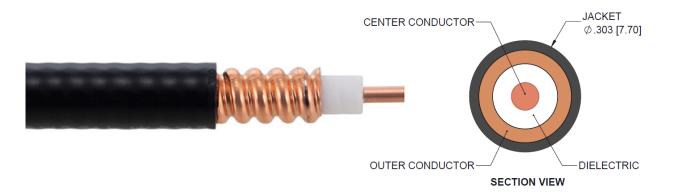
Features

- 100% Tested with PIM Test Results Marked on Cable
- · Lightweight and Extremely Flexible
- · Low Loss with Excellent VSWR

Applications

- · Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems

- · IP67 (when mated)
- · Using Times Microwave Components
- PIM Testing



Description

L-com's LCCA31005-M3 is a fire rated 7/16 DIN male to 7/16 DIN male low PIM cable using SPF-250 coax using Times Microwave parts 3 feet and ships same-day. The SPF-250-LC coax of this 7/16 DIN cable uses the foam PE dielectric with a VoP of 83%. These corrugated RF cable assemblies are extremely durable and ideal for high power applications. Our L-com 7/16 DIN to 7/16 DIN cable assembly has a male to male gender configuration with corrugated SPF-250-LC series coax and operates to 5.8 GHz. The jacketed copper shield provides reliable durability. With passive intermodulation levels better than -160 dBc, our cable assembly design is ideal where low PIM is desired. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

Custom versions of this 7/16 DIN male to 7/16 DIN 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 LCCA31005-M3 L-com Fire Rated 7/16 DIN Male to 7/16 DIN Male Low PIM Cable Using SPF-250 Coax Using Times Microwave Parts 3 Feet data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





LCCA31005-M3

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation		-165	-160	dBc
Capacitance		24 [78.74]		pF/ft [pF/m]
Inductance		0.054 [0.18]		uH/ft [uH/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.54	0.65	0.81	1.34	2.12	dB

Electrical Specification Notes:

PIM test results vary between cables

The insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1*SQRT (FGHz) dB per connector

Mechanical Specifications

Cable Assembly

Length* 118.11 in [300 cm]
Weight 0.41 lbs [185.97 g]

Cable

Cable TypeSPF-250-LCImpedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type Foam PE Number of Shields 1

Shield Layer 1 Helically Corrugated Copper Tube
Outer Conductor Material and Plating Copper

Outer Conductor Material and Plating Copper
Jacket Material FRPE, Black
Jacket Diameter 0.303 in [7.7 mm]





LCCA31005-M3

One Time Minimum Bend Radius Bending Moment

1.25 in [31.75 mm] 0.5 lbs-ft [0.68 N-m]

Connectors

Description	Connector 1	Connector 2	
Туре	7/16 DIN Male	7/16 DIN Male	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Silver	Brass, Silver	
Contact Plating Specification	200 μin	200 μin	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Specification	80 μin	80 μin	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel	
Coupling Nut Plating Specification	80 μin	80 μin	
Torque	22.127 ft-lbs 30 Nm	22.127 ft-lbs 30 Nm	

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C Storage Range -55 to +200 deg C

Environmental Specification Notes:

CMR (Riser) Fire Rated

Compliance Certifications (see product page for current document)

Plotted and Other Data

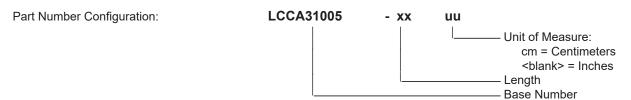
Notes:

Values at 25°C, sea level.



LCCA31005-M3

How to Order



Example: LCCA31005-12 = 12 inches long cable

LCCA31005-100cm = 100 cm long cable

Fire Rated 7/16 DIN Male to 7/16 DIN Male Low PIM Cable Using SPF-250 Coax Using Times Microwave Parts 3 Feet 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.

L-com CAD Drawing

