

Plenum 4.3-10 Male Right Angle to 7/16 DIN Male Right Angle Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts 1 Meter



LCCA31051-M1

Configuration

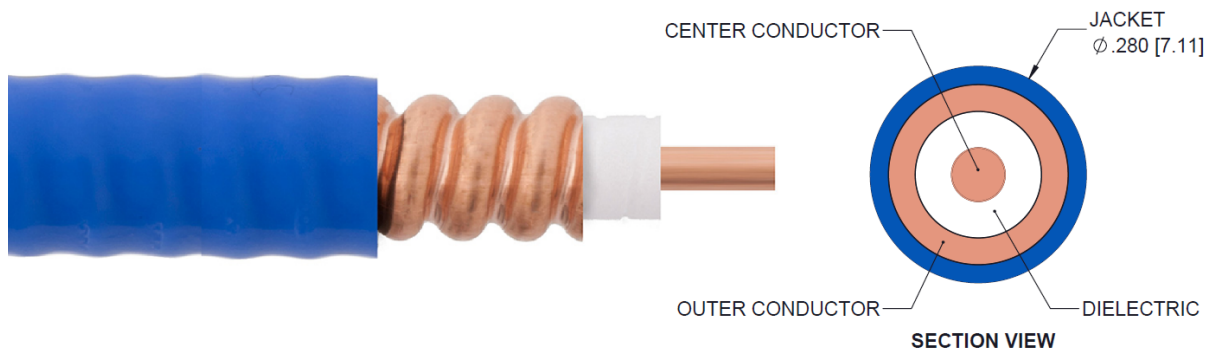
- Connector 1: 4.3-10 Male Right Angle
- Connector 2: 7/16 DIN Male Right Angle
- Cable Type: SPP-250-LLPL

Features

- 100% Tested with PIM Test Results Marked on Cable
- UL910 Plenum Rated Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)
- Using Times Microwave Components

Applications

- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing



Description

L-com's LCCA31051-M1 is a plenum 4.3-10 male right angle to 7/16 DIN male right angle low PIM cable using SPP-250-LLPL coax using Times Microwave parts 1 meter and ships same-day. The SPP-250-LLPL coax of this 4.3-10 cable uses the PTFE dielectric with a VoP of 76%. These corrugated RF cable assemblies are extremely durable and ideal for high power applications. Our L-com 4.3-10 to 7/16 DIN cable assembly has a male to male gender configuration with corrugated SPP-250-LLPL series coax and operates to 5.8 GHz. The jacketed copper shield provides reliable durability and excellent shielding effectiveness greater than 100dB. This right angle 4.3-10 and 7/16 DIN cable interface on the SPP-250-LLPL coax allows for easier connections in tight spaces. 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 4.3-10 male to 4.3-10 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 LCCA31051-M1 L-com Plenum 4.3-10 Male Right Angle to 7/16 DIN Male Right Angle Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts 1 Meter 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		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	100			dB
Passive Intermodulation		-165	-160	dBc
Capacitance		27 [88.58]		pF/ft [pF/m]
Inductance		0.067 [0.22]		uH/ft [uH/m]
DC Resistance Inner Conductor		3 [9.84]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.3	0.35	0.39	0.57	0.84	dB

Electrical Specification Notes:

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of $0.1 \cdot \sqrt{\text{FGHz}}$ dB for the 4.3-10 male connector and 0.1 dB for the 7/16 DIN male connector.

Mechanical Specifications

Cable Assembly

Length	39.3701 in [100 cm]
Diameter	0.5 in [12.7 mm]
Weight	0.68 lbs [308.44 g]

Cable

Cable Type	SPP-250-LLPL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Helically Corrugated Copper Tube

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Outer Conductor Material and Plating	Copper
Outer Conductor Diameter	0.25 in [6.35 mm]
Jacket Material	FEP, Blue
Jacket Diameter	0.28 in [7.11 mm]
One Time Minimum Bend Radius	1.25 in [31.75 mm]
Bending Moment	0.8 lbs-ft [1.08 N-m]

Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Male Right Angle	7/16 DIN Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	200µ in	196µ in
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Body Plating Specification	80µ in	118µ in
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	200µ in	118µ in
Torque	15.05 in-lbs 1.7 Nm	22.127 ft-lbs 30 Nm

Environmental Specifications

Temperature

Operating Range	-55 to +200 deg C
Storage Range	-55 to +200 deg C
Plenum Rating	UL910

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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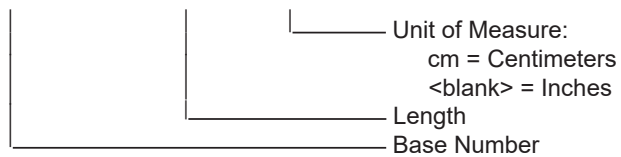


LCCA31051-M1

How to Order

Part Number Configuration:

LCCA31051 - xx uu



Example: LCCA31051-12 = 12 inches long cable
LCCA31051-100cm = 100 cm long cable

Plenum 4.3-10 Male Right Angle to 7/16 DIN Male Right Angle Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts 1 Meter 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

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	09/20/2022
		APPROVED AGANWANI

LENGTH MEASURED FROM CONTACT TO CONTACT

2X HEAT SHRINK

www.L-COM.com
LCCA31051
S/N: XXXXXXXXXX

PIM LEVEL -zzzdBc
S/N: XXXXXXXXXX

SPP-250-LLPL

14mm ACROSS FLATS

32mm HEX

7/16 DIN MALE RA

CONTACT

CONTACT

4.3-10 MALE RA

22mm HEX

SEE NOTE 1

SEE NOTE 2

L-com
an INFINITE brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

SIZE A

CAGE CODE A 43321

ITEM NO. LCCA31051

DRAWN BY

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [.51] FRACTIONS ± 1/32

.XX = ± .02 [.51] ANGLES ± 1°

.XXX = ± .005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0

12 [305] < L ≤ 60 [1524] = +2 [61] / -0

60 [1524] < L ≤ 120 [3048] = +4 [102] / -0

120 [3048] < L ≤ 300 [7620] = +6 [152] / -0

300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

NOTES:

- CABLES 84" AND UNDER HAVE 1 LABEL CENTERED, CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12" FROM END OF CONNECTOR.
- 6" FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.

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