

Low Loss Superflexible Corrugated SPP-500-LLPL Plenum Rated Coax Cable with Blue FEP Jacket, By The Foot



**SPP-500-LLPL-LC**

**Configuration**

- Low Loss, Plenum Corrugated Cable
- 1 Shield(s)

**Features**

- PIM < -160 dBc
- UL910 Plenum Rated Cable
- Lightweight and Extremely Flexible
- Low Loss Dielectric 76% VoP
- Shielding >100 dB
- UV Resistant FEP Jacket

**Applications**

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

**Description**

SPP-500-LLPL-LC coax cable from L-com is one of several radio frequency coaxial cable types specifically stocked to be ready for quick shipment. Times Microwave SPP-500-LLPL-LC coax cable, available at L-com, is manufactured in a helically corrugated, superflexible design and has a 50 Ohm impedance. This low loss corrugated coax cable SPP-500-LLPL-LC is constructed with a 0.5 inch diameter and BL FEP jacket. The FEP makes this cable type perfect for CMP plenum rated applications.

SPP-500-LLPL-LC corrugated 50 Ohm coax cable with FEP jacket is rated for a 5.8 GHz maximum operating frequency. This coaxial cable is built with a Copper outer conductor and RF shielding of 100 dB. L-com SPP-500-LLPL-LC coax is constructed with PTFE dielectric and a maximum operating temperature of 200 degrees C. Times Microwave SPP-500-LLPL-LC coax cable specs for this wire can be found on its RF coax cable SPP-500-LLPL-LC datasheet.

SPP-500-LLPL-LC cable is part of more than one million RF and microwave parts in stock at L-com. This Times Microwave low loss SPP-500-LLPL-LC coax cable is ready to buy and can be shipped worldwide. L-com also maintains a wide selection of other radio frequency coaxial cable products that ship same-day from our warehouse as with the rest of our other RF/microwave components.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
Velocity of Propagation		76		%
Shielding Effectiveness	100			dB
Nominal Capacitance		26.2 [85.96]		pF/ft [pF/m]

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## SPP-500-LLPL-LC

### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	1.5	2	2.5	5.8	GHz
Attenuation, Typ	2.29	4.41	5.12	5.82	9.23	dB/100ft
	7.51	14.47	16.8	19.09	30.28	dB/100m
Input Power (CW), Max	2,500	1,340	1,150	1,020	650	Watts

### Mechanical Specifications

Diameter	0.5 in 12.7 mm
Weight	0.072 lbs/ft [0.11 kg/m]
Min. Bend Radius (Installation)	1.5 in [38.1 mm]

### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum , 1 Strands Strand(s)	0.136in 3.45mm
Conductor Type	Solid	
Dielectric	PTFE	0.37in 9.4mm
Outer Conductor	Copper	0.472 in 11.99 mm
	Corrugated	
Jacket	FEP, Blue	0.5in 12.7mm

### Environmental Specifications

Temperature Operating Range	-55deg C to +200deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Low Loss Superflexible Corrugated SPP-500-LLPL Plenum Rated Coax Cable with Blue FEP Jacket, By The Foot from L-com has same day shipment for domestic and International orders. 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,

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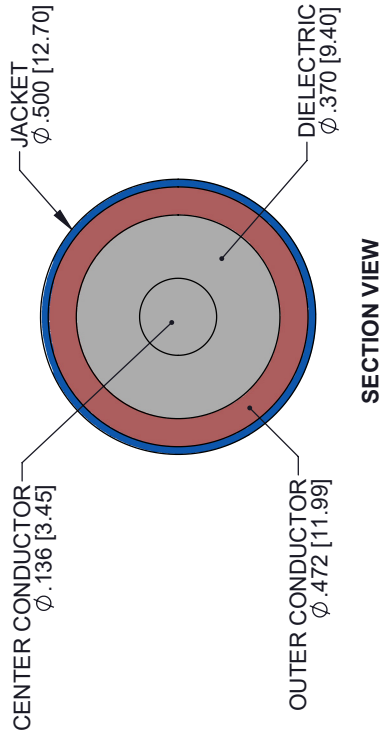
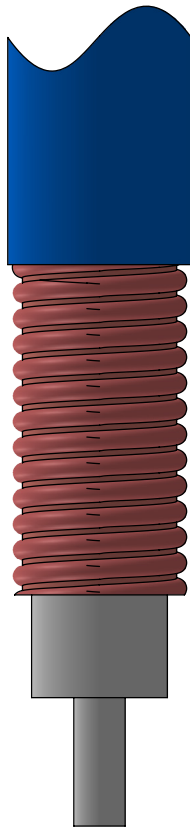
amplifiers, passive, and active components.

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.

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L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	9/29/2021
		APPROVED BY: SRAUTUS



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>X = ± .2</td> <td>[5.08]</td> <td>FRACTIONS</td> <td>± 1/32</td> </tr> <tr> <td>.XX = ± .02</td> <td>[.51]</td> <td>ANGLES ± °</td> <td></td> </tr> <tr> <td>.XXX = ± .005</td> <td>[.13]</td> <td>CABLE LENGTH (L) TOLERANCES:</td> <td></td> </tr> <tr> <td></td> <td></td> <td>L ≤ 12 [305]</td> <td>± .1 [25] / -0</td> </tr> <tr> <td></td> <td></td> <td>12 [305] &lt; L ≤ 60 [1524]</td> <td>± .2 [51] / -0</td> </tr> <tr> <td></td> <td></td> <td>60 [1524] &lt; L ≤ 120 [3048]</td> <td>± .4 [102] / -0</td> </tr> <tr> <td></td> <td></td> <td>120 [3048] &lt; L ≤ 300 [7620]</td> <td>± .6 [152] / -0</td> </tr> <tr> <td></td> <td></td> <td>300 [7620] &lt; L = +5%L / -0</td> <td></td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	X = ± .2	[5.08]	FRACTIONS	± 1/32	.XX = ± .02	[.51]	ANGLES ± °		.XXX = ± .005	[.13]	CABLE LENGTH (L) TOLERANCES:				L ≤ 12 [305]	± .1 [25] / -0			12 [305] < L ≤ 60 [1524]	± .2 [51] / -0			60 [1524] < L ≤ 120 [3048]	± .4 [102] / -0			120 [3048] < L ≤ 300 [7620]	± .6 [152] / -0			300 [7620] < L = +5%L / -0		<p><b>L-com</b> an INFINITE brand</p> <p>50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA Phone: 1.800.341.5266   1.978.682.6936 Fax: 1.978.689.9484 Website: www.L-com.com E-mail: CustomerService@L-com.com</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p>
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<p>SIZE: A</p> <p>CAGE CODE: 43321</p> <p>DRAWN BY: DMAY</p> <p>ITEM NO.: SPP-500-LLPL-LC</p>	<p>SCALE: N/A</p> <p>REV: A</p>																																	

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