

SPP-500-LLPL Low Loss Corrugated Coax Cable Blue FEP Jacket Superflexible

Times Microwave Systems Coax Cable Specification

SPP-500-LLPL low loss, low PIM Plenum Rated coax cable by Times Microwave is part of our full line of RF components available for same-day shipping. The SPP-500-LLPL coaxial cable features a low loss dielectric with an 76% velocity of propagation (VoP), BCCAL center conductor and a helically corrugated, copper outer conductor. This cable is UL listed, type CMP (plenum) rated coax. These features combine to make the Times Microwave SPP-500-LLPL a super flexible, low PIM coax cable that is well suited for use as an antenna jumper cable, Distributed Antenna Systems (DAS), small cell, and other applications where Fire Rated material is required. The durable FEP outer jacket makes this cable appropriate for a wide range of indoor or outdoor applications.

Our datasheet specifications and drawing with dimensions for Times Microwave SPP-500-LLPL coax cable are shown below in this PDF. Whether the need is to provide a low PIM jumper connection, low PIM feeder cable or simply create a custom cable assembly configuration, Fairview Microwave has the right SPP-500-LLPL low PIM cable assembly for the job. See our web site to find the right connector cable combination for your application.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
Velocity of Propagation		76		%
Passive Intermodulation			-160	dBc
Nominal Capacitance		26.2 [85.96]		pF/ft [pF/m]

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 7.51	4.41 14.47	5.12 16.8	5.82 19.09	9.23 30.28	dB/100ft dB/100m
Power In (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	0.136 in [3.45 mm]
Conductor Type	Solid	



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

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Dielectric	PTFE	0.37 in [9.4 mm]
Outer Conductor	Copper Corrugated	0 in [0 mm]
Jacket	FEP, Blue	0.5 in [12.7 mm]

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

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

Plotted and Other Data

Notes:

SPP-500-LLPL Low Loss Corrugated Coax Cable Blue FEP Jacket Superflexible from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SPP-500-LLPL Low Loss Corrugated Coax Cable Blue FEP Jacket Superflexible SPP-500-LLPL-FT](#)

URL: <https://www.fairviewmicrowave.com/spp500llpl-low-loss-corrugated-coax-cable-fep-jacket-spp-500-llpl-ft-p.aspx>

The information contained in 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 implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
A	INITIAL RELEASE	03/24/2022	AGANWANI	

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[12.70]

JACKET
OUTER CONDUCTOR
DIELECTRIC
SOLID CENTER CONDUCTOR

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TITLE SPP-500-LLPL Low Loss Corrugated Coax Cable Blue FEP Jacket Superflexible		TOLERANCES: .X = ±.2 [5.08] FRACTIONS .XX = ±.02 [.51] ± 1/32 XXX = ±.005 [.13] ANGLES ± 1°		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	
		ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE N/A	
SIZE A	CAGE CODE 3FKR5	DRAWN BY DZINN	ITEM NO. SPP-500-LLPL-FT	REV A	SHEET 1 OF 1

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