

## Low Loss Superflexible Corrugated SPF-500 Fire Rated Coax Cable with Black FRPE Jacket, By The Foot



### SPF-500-LC

#### Configuration

- Low Loss Corrugated Cable
- 1 Shield(s)

#### Features

- PIM < -160 dBc
- UL Listed, Type CMR Riser Rated Cable
- Lightweight and Extremely Flexible
- Low Loss Dielectric 83% VoP
- Shielding > 100 dB
- Fire Rated Low Smoke Polyolefin Jacket

#### Applications

- Distributed Antenna Systems (DAS)
- UL Listed, Type CMR Riser Applications
- Low Smoke Requirements
- Small Cell
- Outdoor Applications
- Antenna Jumpers

#### Description

SPF-500-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 SPF-500-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 SPF-500-LC is constructed with a 0.545 inch diameter and BK FRPE jacket. The FRPE makes this cable type perfect for CMR riser rated applications.

SPF-500-LC corrugated 50 Ohm coax cable with FRPE jacket is rated for a 6 GHz maximum operating frequency. This coaxial cable is built with a Copper outer conductor and RF shielding of 100 dB. L-com SPF-500-LC coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Times Microwave SPF-500-LC coax cable specs for this wire can be found on its RF coax cable SPF-500-LC datasheet.

SPF-500-LC cable is part of more than one million RF and microwave parts in stock at L-com. This Times Microwave low loss SPF-500-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		6	GHz
Impedance		50		Ohms
Velocity of Propagation		83		%
Shielding Effectiveness	100			dB
Nominal Capacitance		24 [78.74]		pF/ft [pF/m]

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#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	6		GHz
Attenuation, Typ	2.43	3.51	5.12	9.6		dB/100ft
	7.97	11.52	16.8	31.5		dB/100m
Input Power (CW), Max	1,260	900	610	260		Watts

#### Mechanical Specifications

Diameter	0.545 in 13.84 mm
Weight	0.126 lbs/ft [0.19 kg/m]
Min. Bend Radius (Installation)	2.25 in [57.15 mm]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum , 1 Strands Strand(s)	0.14in 3.56mm
Conductor Type	Solid	
Dielectric	Foam PE	0.35in 8.89mm
Outer Conductor	Copper	0.48 in 12.19 mm
	Corrugated	
Jacket	FRPE, Black	0.545in 13.84mm

#### Environmental Specifications

Temperature	
Operating Range	-40deg C to +85deg C

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

#### Plotted and Other Data

Low Loss Superflexible Corrugated SPF-500 Fire Rated Coax Cable with Black FRPE 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, amplifiers,

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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 implement 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.

