

SPF-500 Low Loss Corrugated Coax Cable Black FRPE Jacket Superflexible Fire Rated

Times Microwave Systems Coax Cable Specification

SPF-500 low loss, low PIM Fire Retardant coax cable by Times Microwave is part of our full line of RF components available for same-day shipping. The SPF-500 coaxial cable features a low loss dielectric with an 83% velocity of propagation (VoP), BCCAL center conductor and a helically corrugated, copper outer conductor. This cable is UL listed, type CMR (riser) rated coax. These features combine to make the Times Microwave SPF-500 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 UV and sunlight resistant black flame retardant, non-halogen, polyethylene jacket makes this cable appropriate for a wide range of indoor or outdoor applications.

Our datasheet specifications and drawing with dimensions for Times Microwave SPF-500 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 SPF-500 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		6	GHz
Impedance		50		Ohms
Velocity of Propagation		83		%
Passive Intermodulation			-158	dBc
Nominal Capacitance		24 [78.74]		pF/ft [pF/m]

Performance by Frequency Band

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

Mechanical Specifications

Diameter	0.545 in [13.84 mm]
Weight	0.122 lbs/ft [0.18 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	0.14 in [3.56 mm]
Conductor Type	Solid	



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

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Dielectric	Foam PE	0.35 in [8.89 mm]
Outer Conductor	Copper Corrugated	0 in [0 mm]
Jacket	FRPE, Black	0.545 in [13.84 mm]

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

Plotted and Other Data

Notes:

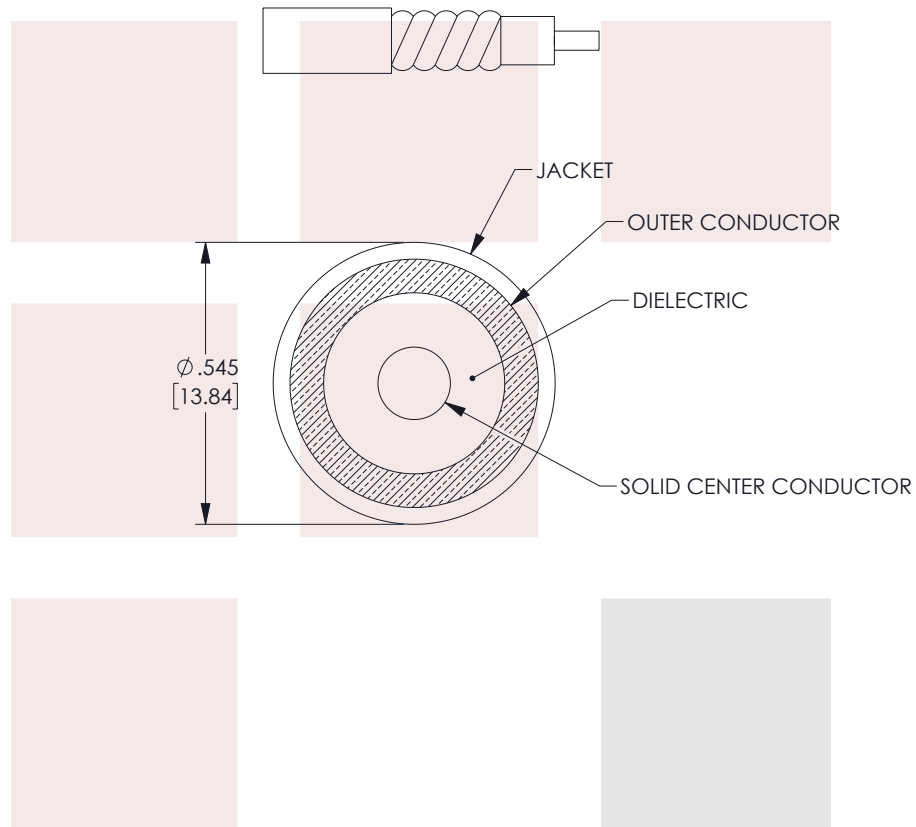
SPF-500 Low Loss Corrugated Coax Cable Black FRPE Jacket Superflexible Fire Rated from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SPF-500 Low Loss Corrugated Coax Cable Black FRPE Jacket Superflexible Fire Rated SPF-500-BULK](#)

URL: <https://www.fairviewmicrowave.com/spf500-low-loss-corrugated-coax-cable-frpe-jacket-spf-500-bulk-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	02/13/2023	AGANWANI



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<p>Fairview Microwave an INFINIT[®] brand</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p>		<p>THIRD-ANGLE PROJECTION</p>		
	<p>TOLERANCES:</p> <p>.X = ±.2 [.508] FRACTIONS ± 1/32</p> <p>.XX = ±.02 [.51] ANGLES ± 1°</p> <p>.XXX = ±.005 [.13]</p>		<p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0</p> <p>12 [305] < L ≤ 60 [1524] = +2 [51] / -0</p> <p>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</p> <p>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</p> <p>300 [7620] < L = +5%L / -0</p>		<p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p>
<p>TITLE</p> <p>SPF-500 Low Loss Corrugated Coax Cable Black FRPE Jacket Superflexible Fire Rated</p>			<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> <p>SCALE N/A</p>		
SIZE A	CAGE CODE 3FKR5	DRAWN BY AKRESOWSKI	ITEM NO. SPF-500-BULK	REV A	

T-Rev.D