

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 | 0.126 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 | 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 | 0.48 in [12.19 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

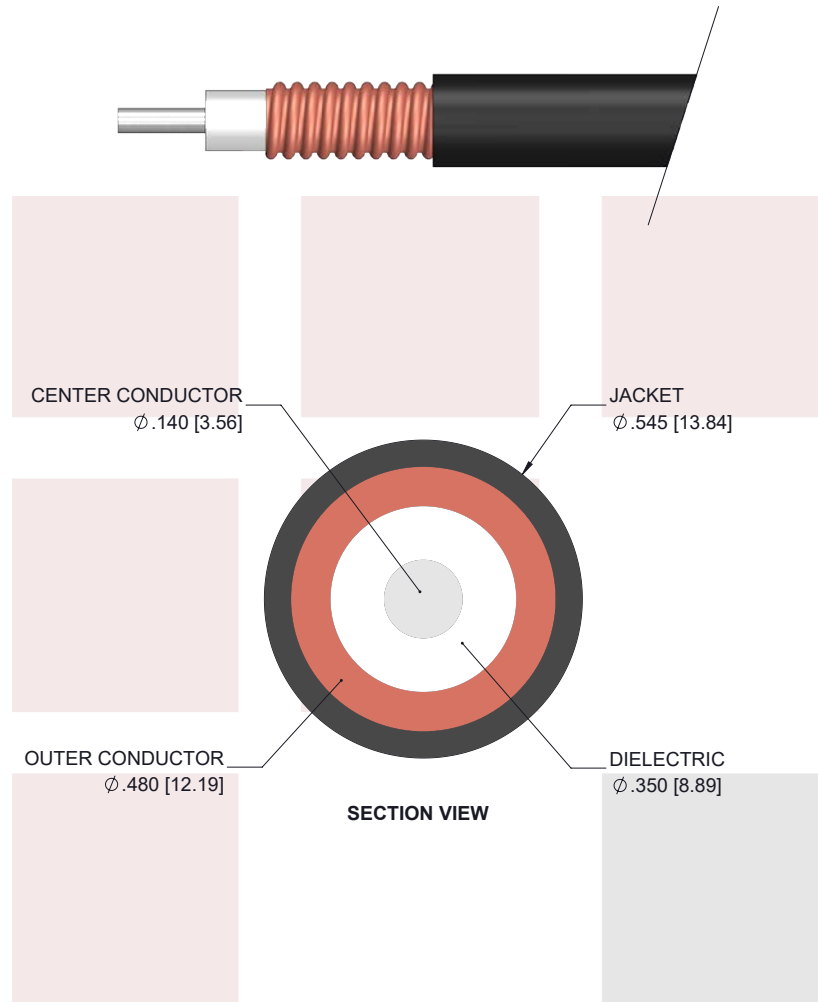
Notes:

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 fiber optic 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](#)

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



| STANDARD TOLERANCES | |
|---------------------|--------|
| .X | ±0.2 |
| .XX | ±0.01 |
| .XXX | ±0.005 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | | | | | | |
|--|---|----------|-------|--------|-------------------|-----|--------------------|--------|
| <p>Fairview Microwave RF COMPONENTS ON DEMAND. <i>Done!</i></p> | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | | | | | | | |
| | TITLE SPF-500 Low Loss Corrugated Coax Cable Black FRPE Jacket Superflexible Fire Rated | | | | DWG NO SPF-500 | | CAGE CODE 3FKR5 | |
| | CAD FILE | 03/07/19 | SHEET | 1 OF 1 | SCALE | N/A | SIZE | A 7361 |