

Mini SMP Male VITA 67 Connector Solder Attachment for FM-F086HF Cable



FMCN1540

Configuration

- Mini SMP Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: FM-F086HF, FM-F086, FM-F086HF
- VITA 67 Design

Features

- Operating Frequency of 26.5 GHz Max.
- Good VSWR of 1.45:1
- Blind Mate Connector
- Gold Plated Beryllium Copper Contact
- Contact plating according to ASTM B488
- Coaxial interconnects on VPX platforms
- Standard MIL-STD-348 SMPM interface
- Rugged Stainless Steel construction
- Accepts 0.086" cable contacts for end to end solution

Applications

- General Purpose Test
- Custom Cable Assemblies
- Robust and Rugged high speed cabled solution
- VITA 67 Backplane
- High Density Applications

Description

FMCN1540 Mini SMP male coaxial connector from Fairview Microwave has an interface type of FM-F086HF and a 50 Ohm impedance. This Mini SMP male connector utilizes a solder attachment for the contact. Our male Mini SMP coaxial connector provides a minimum frequency of DC and a maximum frequency of 26.5 GHz.

Mini SMP male coaxial RF connector has a TEFLON dielectric and a VSWR of 1.45:1. This Fairview Microwave Mini SMP coaxial connector has a beryllium copper body with gold plating. You can find this Mini SMP male coaxial connector datasheet specifications below.

Fairview Microwave male Mini SMP connector purchases will ship the same day. Our Mini SMP male FMCN1536 connector is part of over one million RF, microwave and millimeter wave components in stock and ready for same-day shipment worldwide. We also build custom Mini SMP cable assemblies that will ship quickly from our location.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
VSWR			1.45:1	
Dielectric Withstanding Voltage (AC)			325	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			5	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.42 in [10.67 mm]
Width	0.16 in [4.06 mm]
Height	0.16 in [4.06 mm]
Weight	0.0016 lbs [0.73 g]

Mini SMP Male VITA 67 Connector Solder Attachment for FM-F086HF Cable



FMCN1540

Mating Cycles	500 Cycles
Engagement Force	4.25lbs [1.93kg]
Disengagement Force	3.5lbs [1.59kg]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold ASTM B488
Insulation	Teflon	
Body	Beryllium Copper	Gold ASTM B488
Retaining Ring	Beryllium Copper	Nickel SAE-AMS-QQ-N-290

Environmental Specifications

Temperature	
Operating Range	-55 to 125 deg C
Humidity	1,000 megohms within 5 minutes after removal from humidity, tested per MIL-STD-202, Method 106
Shock	Sawtooth pulse of 100 g 6ms per MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 214, Test Condition I, Curve D
Thermal Shock	MIL-STD-202, Method 107, Test Condition A

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

Plotted and Other Data

Notes:

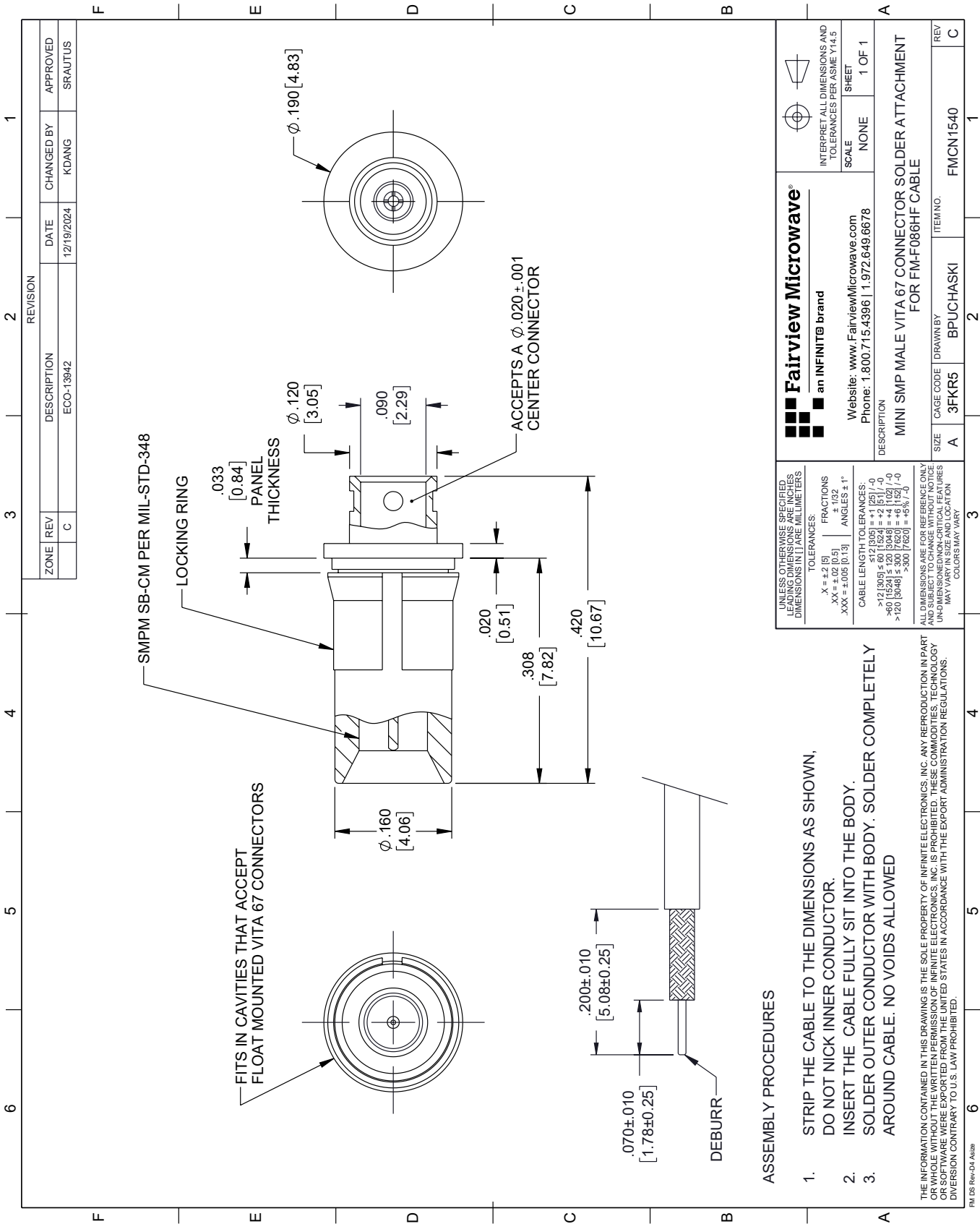
Mini SMP Male VITA 67 Connector Solder Attachment for FM-F086HF Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Mini SMP Male VITA 67 Connector Solder Attachment for FM-F086HF Cable FMCN1540](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/mini-smp-male-pe-p086-pe-p086hf-pe-p086ll-pe-p086flx-connector-fmcn1540.html>

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. 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 liability arising out of the use of any part or document.

FMCN1540 CAD Drawing
Mini SMP Male VITA 67 Connector Solder Attachment for FM-F086HF Cable



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Plotted and Other Data

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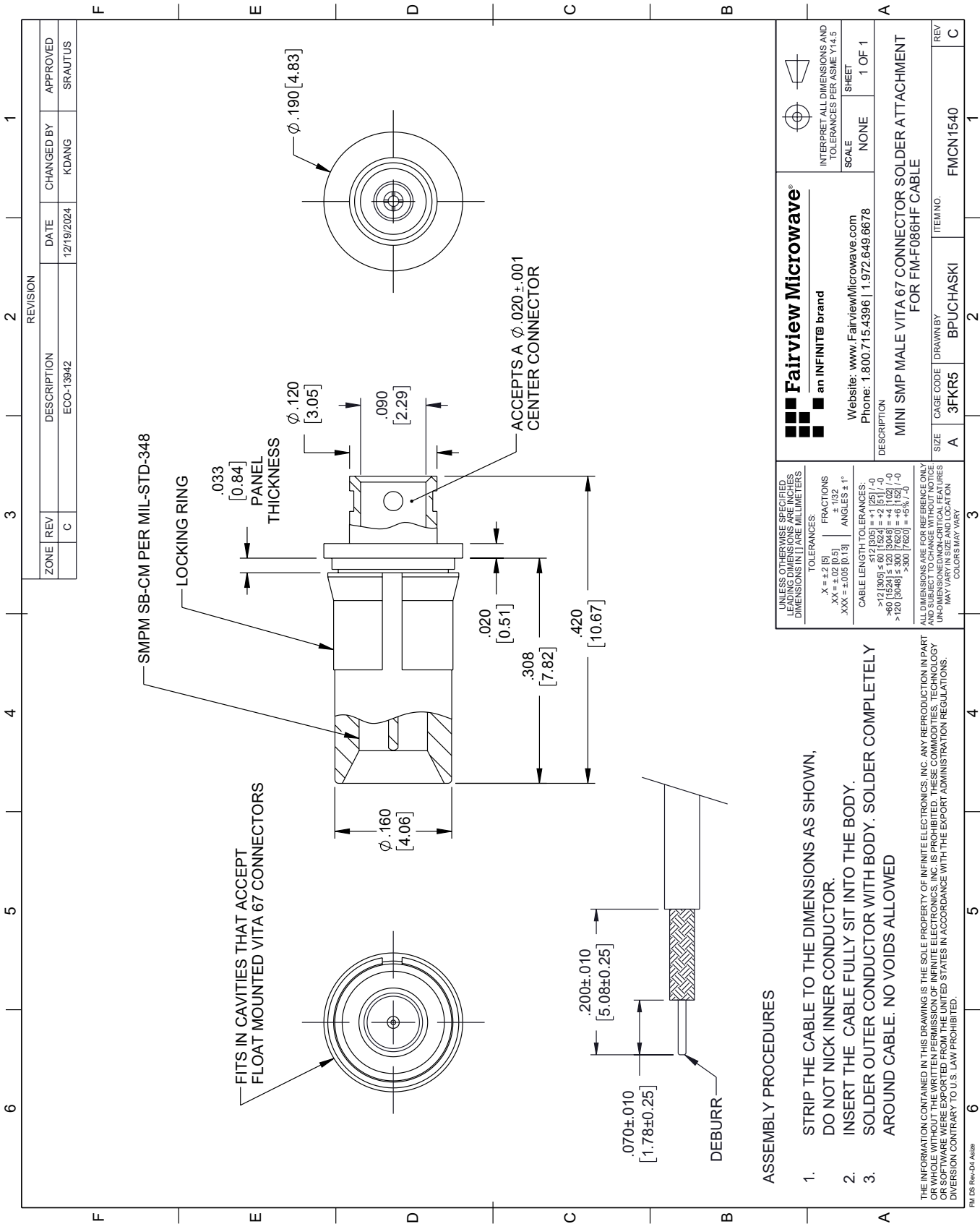
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FMCN1540 CAD Drawing
Mini SMP Male VITA 67 Connector Solder Attachment for FM-F086HF Cable



FM-F086HF Flexible Coax Cable Blue FEP Jacket

FM-F086HF, by Fairview is a flexible, coaxial cable that provides similar loss characteristics to semi-rigid cable, low VSWR of 1.3:1 and a high frequency range up to 40 GHz. The low loss coax cable offers dual shields and silver-plated conductors to maintain a shielding effectiveness of 110 dB. Conductor sizing for this low VSWR coax was selected to allow attachment of standard connectors designed for M17/133-RG405 and other cables in the M17/133 family. The cable jacket provides a tough, chemical and heat resistant barrier. This FM-F086HF flexible low loss coaxial cable is a great option for short length, high frequency jumpers or system hook-up cable assemblies. In many instances, this Fairview coax cable can be used to replace bent semi-rigid cable assemblies and save the time and cost of bending.



Configuration:

- Flexible Cable
- 2 Shield(s)

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
Impedance		50 ±2		Ohms
Velocity of Propagation		70		%
Nominal Capacitance		29.4		pF/ft
		[96.46]		[pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	1	2	2.4	3	GHz
Attenuation, Max	13.1 42.98	21.1 69.23	30.5 100.07	33.7 110.56	38 124.67	dB/100ft dB/100m
Attenuation, Typ	11.9 39.04	19.2 62.99	27.7 90.88	30.6 100.39	34.5 113.19	dB/100ft dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	5	10	18	40		GHz
Attenuation, Max	50.3 165.03	74.3 243.77	104.6 343.18	170.3 558.73		dB/100ft
dB/100m						
Attenuation, Typ	45.7 149.93	67.5 221.46	95.1 312.01	154.8 507.87		dB/100ft
dB/100m						

Mechanical Specifications

Diameter	0.104 in [2.64 mm]
Weight	0.0135 lbs/ft [0.02 Kg/m]
Min. Bend Radius (Installation)	0.52 in [13.21 mm]

Fairview Microwave
1130 Junction Dr. #100
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www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strands	0.02 in [0.51 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.064 in [1.63 mm]
First Shield	Silver Plated Copper Tape	
Second Shield	Silver Plated Copper Braid	
Jacket	FEP, Blue	0.104 in [2.64 mm]

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

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

Plotted and Other Data

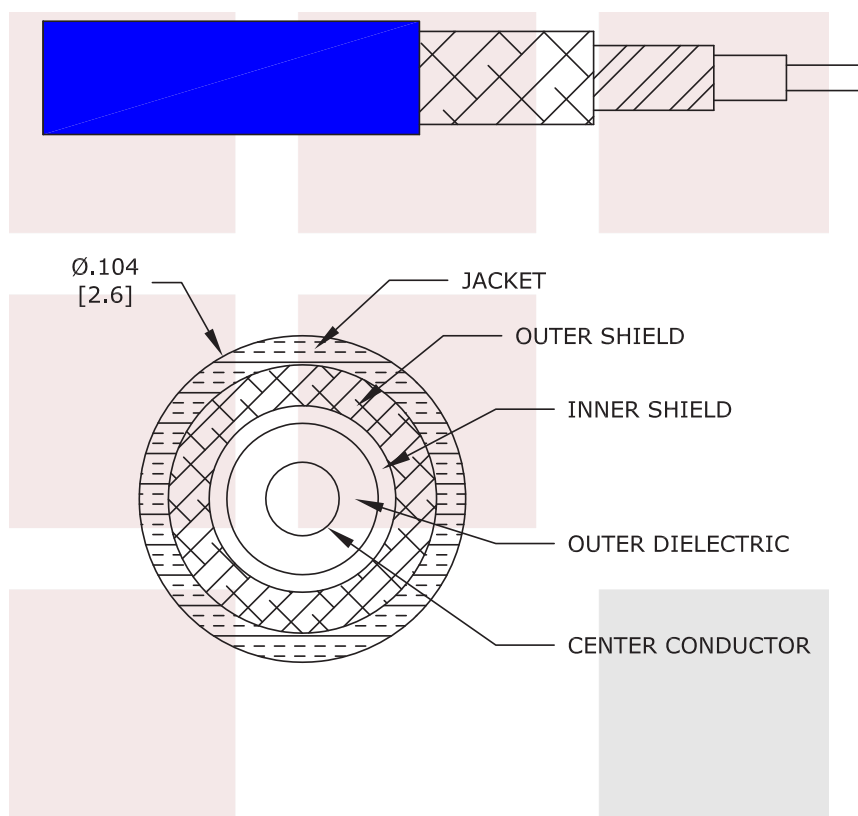
Notes:

FM-F086HF Flexible Coax Cable Blue FEP Jacket 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: [FM-F086HF Flexible Coax Cable Blue FEP Jacket FM-F086HF](#)

URL: <https://www.fairviewmicrowave.com/fm-f086hf-flexible-coax-cable-fep-jacket-fm-f086hf-p.aspx>

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TITLE FM-F086HF Flexible Coax Cable Blue FEP Jacket		DWG NO FM-F086HF		CAGE CODE 3FKR5	
		CAD FILE 042517	SHEET	SCALE N/A	SIZE A 2233