

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
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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
Allen, TX 75013
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
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

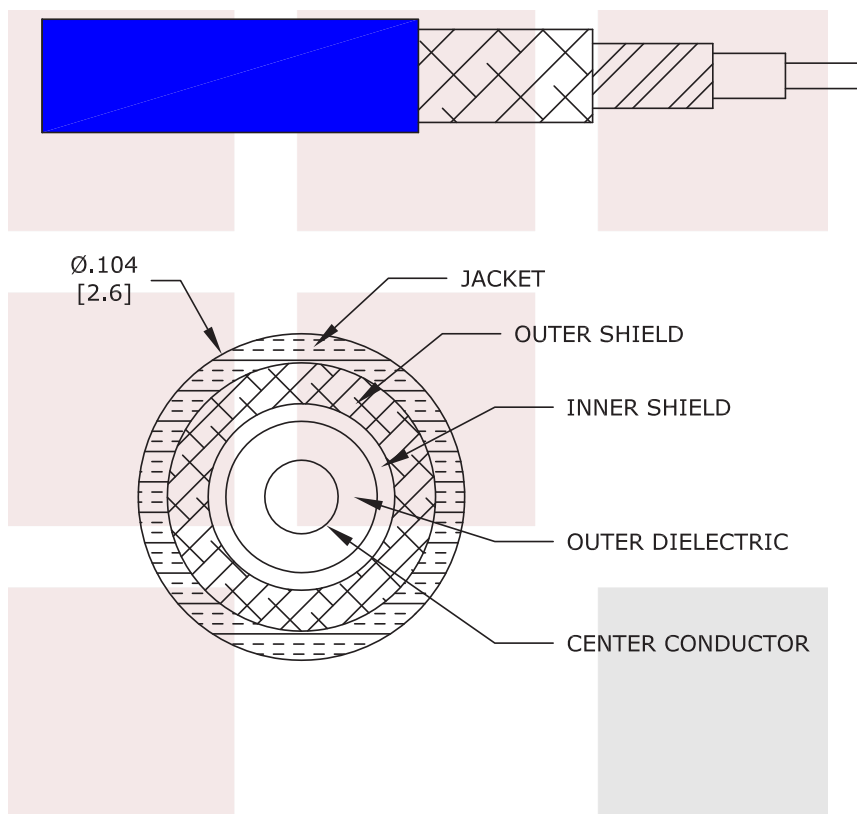
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TITLE FM-F086HF Flexible Coax Cable Blue FEP Jacket	DWG NO FM-F086HF		CAGE CODE 3FKR5		
	CAD FILE 042517	SHEET	SCALE N/A	SIZE A	2233

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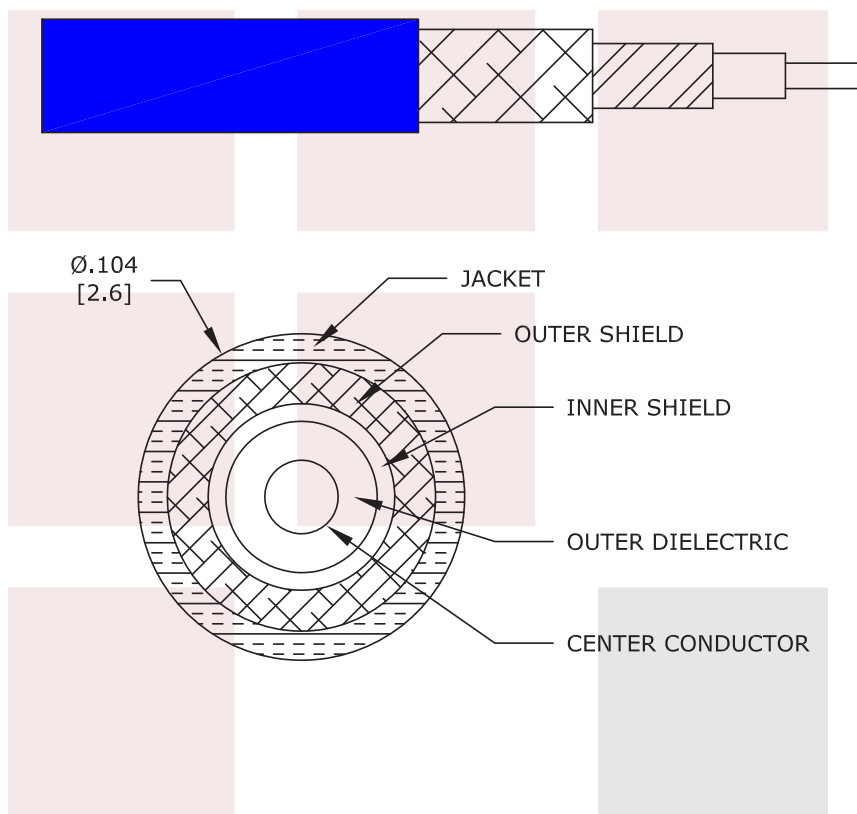
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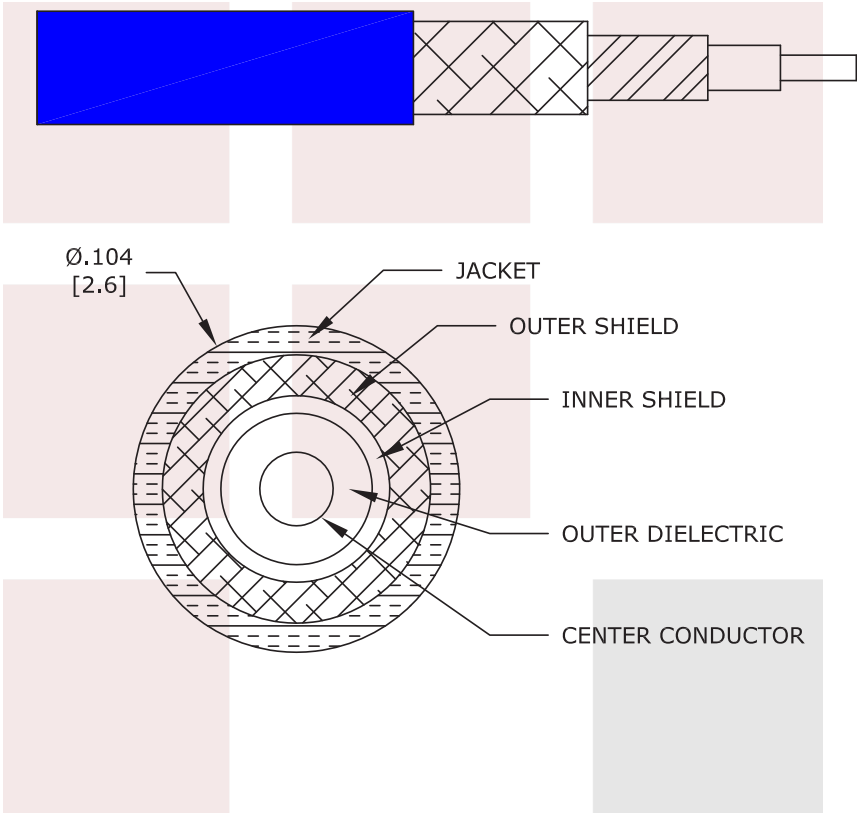
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