

2.92mm Male to 2.92mm Male Cable FM-F086HF Coax



FMCA1969

Configuration

- Connector 1: 2.92mm Male
- Connector 2: 2.92mm Male
- Cable Type: FM-F086HF
- Coax Flex Type: Flexible

Features

- Max Frequency 40 GHz
- 70.6% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

The 2.92mm male to 2.92mm male cable using FM-F086HF coax, part number FMCA1969, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm cable assembly has a male to male gender configuration with 50 ohm flexible FM-F086HF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1969 2.92mm male to 2.92mm male cable assembly operates to 40 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	
Velocity of Propagation		70.6		%
Capacitance		28.95 [94.98]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	40000	MHz	
FMCA1969	Custom Lengths Available	Insertion Loss (Typ.)	0.31	0.46	0.675	1.005	1.548	dB/ft	
			1.03	1.5	2.22	3.3	5.08	dB/m	
FMCA1969-12	12 inch	Insertion Loss (Typ.)	1.32	1.46	1.68	2.01	2.55	dB	0.026
FMCA1969-18	18 inch	Insertion Loss (Typ.)	1.47	1.69	2.02	2.51	3.33	dB	0.032
FMCA1969-24	24 inch	Insertion Loss (Typ.)	1.63	1.92	2.35	3.01	4.1	dB	0.038
FMCA1969-36	36 inch	Insertion Loss (Typ.)	1.94	2.38	3.03	4.02	5.65	dB	0.05
FMCA1969-48	48 inch	Insertion Loss (Typ.)	2.25	2.83	3.7	5.02	7.2	dB	0.062

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.5 dB
Loss due to Connector 2:	0.5 dB
Base Weight:	0.026 pounds
Additional Weight per Inch:	0.00098 pounds

Mechanical Specifications

Cable Assembly

Weight	0.026 lbs [11.79 g]
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Cable

Cable Type	FM-F086HF
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.104 in [2.64 mm]

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Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PCTFE	PCTFE
Body Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Body Plating Specification	50 µin minimum	50 µin minimum
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm
Seal Gasket Material	Silicone Rubber	Silicone Rubber

Environmental Specifications

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

Plotted and Other Data

Notes:

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FMCA1969

Typical Performance Data

How to Order

Part Number Configuration:

FMCA1969

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: FMCA1969-12 = 12 inches long cable
FMCA1969-100cm = 100 cm long cable

2.92mm Male to 2.92mm Male Cable FM-F086HF Coax 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: [2.92mm Male to 2.92mm Male Cable FM-F086HF Coax FMCA1969](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-male-to-2.92mm-male-cable-fm-f086hf-coax-fmca1969-p.aspx>

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.

FMCA1969 CAD Drawing
2.92mm Male to 2.92mm Male Cable FM-F086HF Coax

