

2.4mm Male to 2.4mm Male Cable FM-F086HF Coax with LF Solder

The 2.4mm male to 2.4mm male cable using FM-F086HF coax, part number FMCA3255/0001, from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to 2.4mm 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 FMCA3255/0001 2.4mm male to 2.4mm 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	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
VSWR			1.3:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			335	V _{rms}

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	40	GHz
Insertion Loss (Typ.)	0.318	0.457	0.675	1.005	1.548	dB/ft
	1.04	1.5	2.21	3.3	5.08	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.04 \times \sqrt{f(\text{GHz})}$ dB per connector.

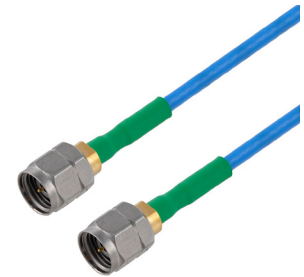
Mechanical Specifications

Cable Assembly

Weight 0.03 lbs [13.61 g]

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]



Configuration:

- 2.4mm Male
- 2.4mm Male
- FM-F086HF

Features:

- Max Frequency 40 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- 500 Mating Cycles

Applications:

- General Purpose
- Laboratory Use

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One Time Minimum Bend Radius 0.52 in [13.21 mm]

Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material & Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Spec.	50 µin minimum	50 µin minimum
Dielectric Type	PEI	PEI
Body Material & Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Body Plating Spec.	50 µin minimum	50 µin minimum
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Spec.	ASTM-A582	ASTM-A582
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm

Environmental Specifications
Temperature

Operating Range -55 to +150 deg C

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

Plotted and Other Data

Notes:

How to Order

 Part Number Configuration: **FMCA3255/0001** - **xx** **uu**

 cm = Centimeters
 <blank> = Inches

Length

 Example: FMCA3255/0001-12 = 12 inches long cable
 FMCA3255/0001-100cm = 100 cm long cable

2.4mm Male to 2.4mm Male Cable FM-F086HF Coax with LF Solder 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: [2.4mm Male to 2.4mm Male Cable FM-F086HF Coax with LF Solder FMCA3255/0001](https://www.fairviewmicrowave.com/2.4mm-male-to-2.4mm-male-cable-fm-f086hf-coax-with-lf-solder-fmca3255-0001)

URL: <https://www.fairviewmicrowave.com/2.4mm-male-to-2.4mm-male-cable-fm-f086hf-coax-with-lf-solder-fmca3255-0001-p.aspx>

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