

FMCA2087 DATA SHEET

Low Loss 1.85mm Male to 1.85mm Male Cable 047 Coax

The 1.85mm male to 1.85mm male cable using 047 coax, part number FMCA2087, from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm to 1.85mm cable assembly has a male to male gender configuration with 50 ohm semi-rigid FM-SR047CUTNLL coax. Fairview Microwave's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. The FMCA2087 1.85mm male to 1.85mm male cable assembly operates to 70 GHz.

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	т	yp Max		Units	
Frequency Range	DC			70	GHz	
VSWR				1.4:1		
Velocity of Propagation		76.5		%		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units	
Frequency	0.5	5	10	18	26.5	GHz	
Insertion Loss (Max.)	0.21	0.68	0.96	1.3	1.6	dB/ft	
	0.69	2.23	3.15	4.27	5.25	dB/m	
Insertion Loss (Typ.)	0.21	0.68	0.96	1.3	1.6	dB/ft	
	0.69	2.23	3.15	4.27	5.25	dB/m	

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.04*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Diameter	0.35 in [8.89 mm]

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Outer Conductor Material and Plating FM-SR047CUTNLL 50 Ohms Solid Copper, Silver Microporous PTFE 1 Copper, Tin



Configuration:

- 1.85mm Male
- 1.85mm Male
- FM-SR047CUTNLL

Features:

- Max Frequency 70 GHz
- 76.5% Phase Velocity
- 500 Mating Cycles
- Maximum Cable Assembly Length
 of 5 Feet

Applications:

- General Purpose
- Laboratory Use

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com Fairview Microwave

an INFINIT[®] brand



One Time Minimum Bend Radius 0.125 in [3.18 mm]

Connectors

Description	Connector 1	Connector 2	-
Туре	1.85mm Male	1.85mm Male	-
Impedance	50 Ohms	50 Ohms	-
Mating Cycles	500	500	-
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	-
Contact Plating Spec.	ASTM-B488	ASTM-B488	-
Dielectric Type	PTFE	PTFE	-
Body Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	-
Body Plating Spec.	ASTM-B488	ASTM-B488	-
Coupling Nut Material & Plating	Steel	Steel	-
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm	-
ompliance Certifications otted and Other Data Notes:	(see product page for c	urrent document)	
ow to Order			
Part Number Configuration:	FM	ICA2087 - xx ι	cm = Centimeters <blank> = Inches Length</blank>
	12 inches long cable m = 100 cm long cable		

Low Loss 1.85mm Male to 1.85mm Male Cable 047 Coax 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: Low Loss 1.85mm Male to 1.85mm Male Cable 047 Coax FMCA2087

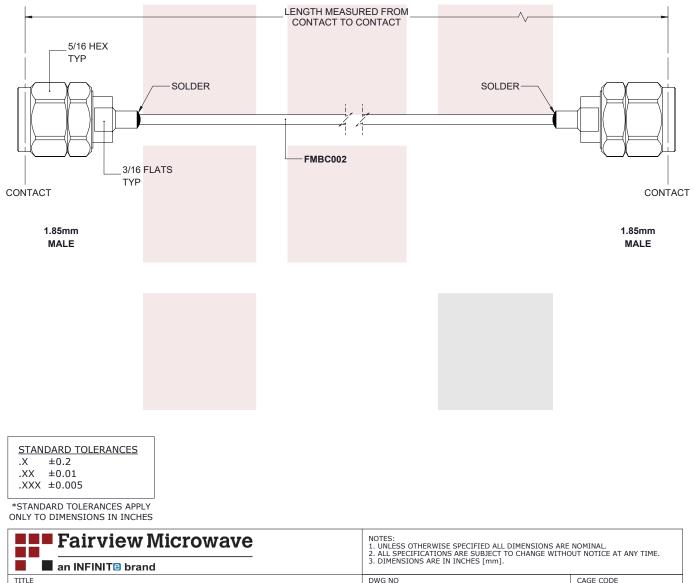
URL: https://www.fairviewmicrowave.com/low-loss-1.85mm-male-1.85mm-male-cable-047-coax-fmca2087-p.aspx

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.

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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].								
DWG NO FMCA2087				CAGE CODE 3FKR5				
CAD FILE	09/11/19	SHEET	1 OF 1	SCALE N/A		SIZE A	7361	

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