



Low Loss 1.85mm Male to 1.85mm Male Cable 070 Coax

The 1.85mm male to 1.85mm male cable using 070 coax, part number FMCA2090, 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-SR070CULL 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 FMCA2090 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

Min	Тур		Max	Units	
DC			70	GHz	
			1.4:1		
	76.5		%		
		DC	DC	DC 70 1.4:1	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	18	GHz
Insertion Loss (Max.)	0.14	0.2	0.45	0.64	0.87	dB/ft
	0.46	0.66	1.48	2.1	2.85	dB/m
Insertion Loss (Typ.)	0.14	0.2	0.45	0.64	0.87	dB/ft
	0.46	0.66	1.48	2.1	2.85	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-SR070CULL 50 Ohms Solid Copper, Silver Microporous PTFE 1

Copper





Configuration:

- 1.85mm Male
- 1.85mm Male
- FM-SR070CULL

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





One Time Minimum Bend Radius

0.25 in [6.35 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, G	old Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488	ASTM-B488
Dielectric Type	PTFE	PTFE
Body Material & Plating	Beryllium Copper, G	old Beryllium Copper, Gold
Body Plating Spec.	ASTM-B488	ASTM-B488
Coupling Nut Material & Plat	ting Steel	Steel
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm

Environmental Specifications

Temperature

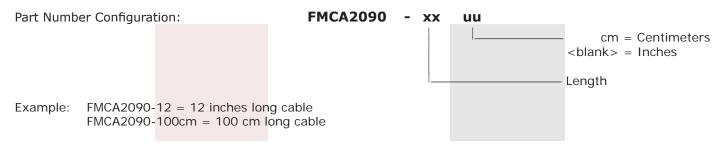
Operating Range -65 to +150 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order



Low Loss 1.85mm Male to 1.85mm Male Cable 070 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 070 Coax FMCA2090

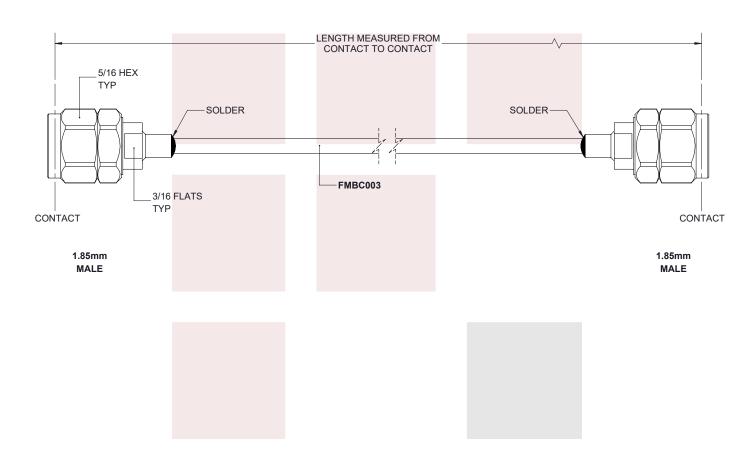
URL: https://www.fairviewmicrowave.com/low-loss-1.85mm-male-1.85mm-male-cable-070-coax-fmca2090-p.aspx

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.

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

Fairview Microwave an INFINIT® brand	NOTES: 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].						
Low Loss 1.85mm Male to 1.85mm Male Cable 070 Coax	DWG NO FMCA2090				CAGE CODE 3FKR5		
	CAD FILE 09/11/19	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	