

Low Loss 2.92mm Male to 2.92mm Male Cable 086 Coax in 48 Inch

The 2.92mm male to 2.92mm male 48 inch cable using 086 coax, part number FMCA2093-48, 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 semi-rigid FM-SR086CUTNLL 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 FMCA2093-48 2.92mm male to 2.92mm male cable assembly operates to 45 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	Typ	Max	Units
Frequency Range	DC		45	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 (Typ.)	0.54	1.74	2.5	3.42	4.26	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of $0.04 \times \sqrt{\text{FGHz}}$ dB maximum per connector.

Mechanical Specifications

Cable Assembly

Length*	48 in [121.92 cm]
Diameter	0.35 in [8.89 mm]

Cable

Cable Type	FM-SR086CUTNLL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	Microporous PTFE
Number of Shields	1
Outer Conductor Material and Plating	Copper, Tin

One Time Minimum Bend Radius	0.25 in [6.35 mm]
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Configuration:

- 2.92mm Male
- 2.92mm Male
- FM-SR086CUTNLL

Features:

- Max Frequency 45 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

Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm 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

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2093 - xx uu

cm = Centimeters
 <blank> = Inches

Length

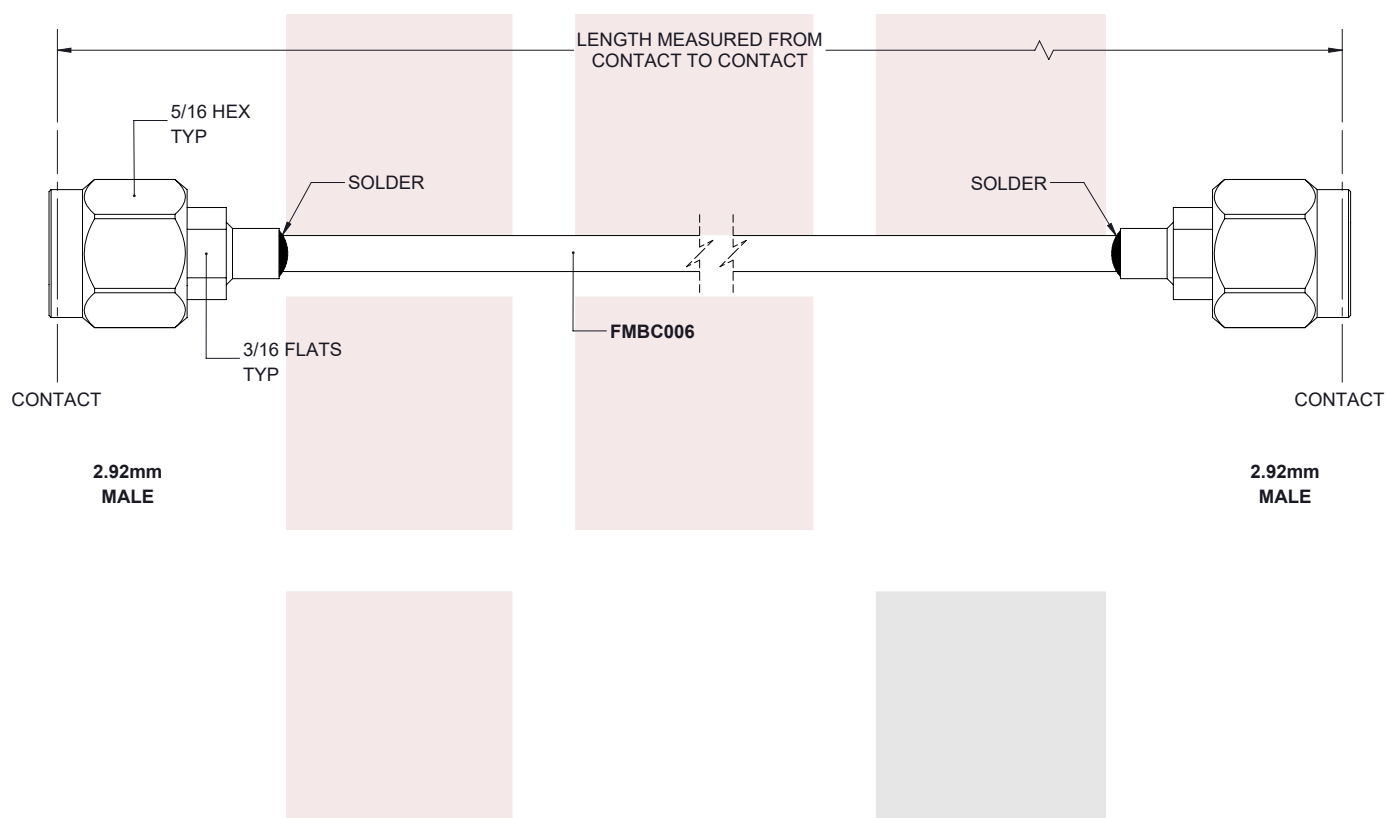
Example: FMCA2093-12 = 12 inches long cable
 FMCA2093-100cm = 100 cm long cable

Low Loss 2.92mm Male to 2.92mm Male Cable 086 Coax in 48 Inch 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 2.92mm Male to 2.92mm Male Cable 086 Coax in 48 Inch FMCA2093-48](#)

URL: <https://www.fairviewmicrowave.com/low-loss-2.92mm-male-2.92mm-male-cable-086-coax-fmca2093-48-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.



STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

<p>Fairview Microwave an INFINIT[®] brand</p>		<p>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].</p>					
TITLE		DWG NO			CAGE CODE		
Low Loss 2.92mm Male to 2.92mm Male Cable 086 Coax in 48 Inch		FMCA2093			3FKR5		
CAD FILE	09/11/19	SHEET	1 OF 1	SCALE	N/A	SIZE	A 7361