

Low Loss 2.92mm Male to 2.92mm Male Cable 047 Coax in 6 Inch

The 2.92mm male to 2.92mm male 6 inch cable using 047 coax, part number FMCA2089-6, 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-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 FMCA2089-6 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.) | 0.17 | 0.52 | 0.74 | 0.99 | 1.22 | 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 $0.04 * \sqrt{F(\text{GHz})}$ dB maximum per connector.

Mechanical Specifications

Cable Assembly

| | |
|----------|-------------------|
| Length* | 6 in [152.4 mm] |
| Diameter | 0.35 in [8.89 mm] |

Cable

| | |
|--------------------------------------|------------------|
| Cable Type | FM-SR047CUTNLL |
| 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 | 0.125 in [3.18 mm] |
|------------------------------|--------------------|



Configuration:

- 2.92mm Male
- 2.92mm Male
- FM-SR047CUTNLL

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: **FMCA2089 - xx uu**

cm = Centimeters
<blank> = Inches
Length

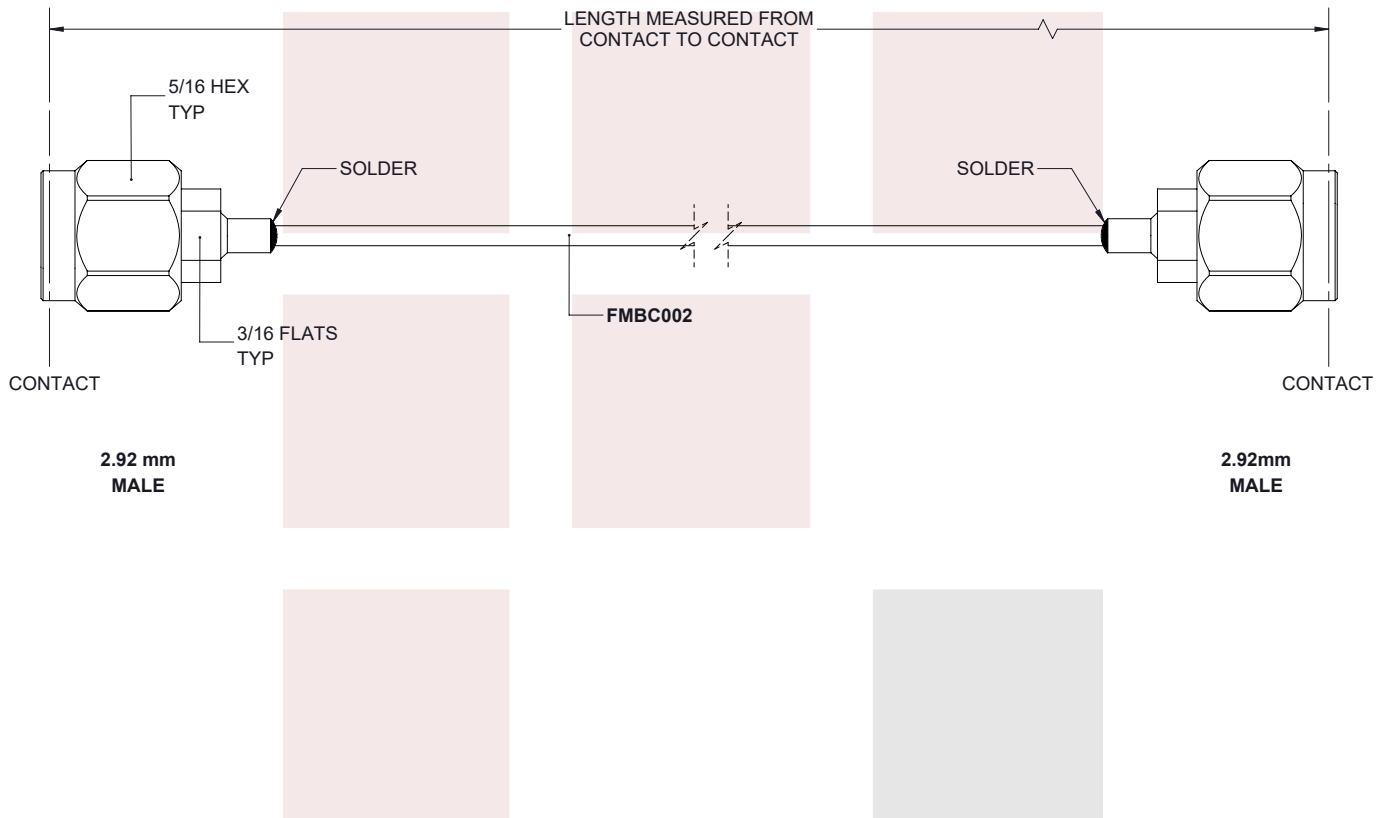
Example: FMCA2089-12 = 12 inches long cable
FMCA2089-100cm = 100 cm long cable

Low Loss 2.92mm Male to 2.92mm Male Cable 047 Coax in 6 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 047 Coax in 6 Inch FMCA2089-6](#)

URL: <https://www.fairviewmicrowave.com/low-loss-2.92mm-male-2.92mm-male-cable-047-coax-fmca2089-6-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> | | 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]. | | | |
| TITLE | | DWG NO | | CAGE CODE | |
| Low Loss 2.92mm Male to 2.92mm Male Cable 047 Coax in 6 Inch | | FMCA2089 | | 3FKR5 | |
| CAD FILE | 09/11/19 | SHEET | 1 OF 1 | SCALE | N/A |
| | | | | SIZE | A 7361 |