Fairview Microwave
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# FMCA2937-60 DATA SHEET

## N Male to RA N Male Cable RG405 Type .086 Coax in 60 Inch

The type N male to RA type N male 60 inch cable using RG405 type .086 coax, part number FMCA2937-60, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm semi-rigid FM-SR086CU-STR 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 FMCA2937-60 type N male to type N male cable assembly operates to 11 GHz. The right angle type N interface on the FM-SR086CU-STR cable allows for easier connections in tight spaces.

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.

### Configuration:

- N Male
- N Male Right Angle
- FM-SR086CU-STR

### Features:

- Max Frequency 11 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity

### Applications:

- General Purpose
- Laboratory Use

## Electrical Specifications

| Description | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 11 | GHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 69.5 | | % |
| RF Shielding | -110 | | | dB |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

### Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.5 | 1 | 2.5 | 5 | 11 | GHz |
| Insertion Loss (Typ.) | 0.85 | 1.4 | 1.89 | 2.69 | 4.5 | dB |

Electrical Specification Notes:
The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

## Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Length* | 60 in [152.4 cm] |
| Weight | 0.199 lbs [90.26 g] |

**Cable**

| | |
|---|---|
| Cable Type | FM-SR086CU-STR |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |

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| | |
|---|---|
| Outer Conductor Material and Plating | Copper |
| Repeated Minimum Bend Radius | 0.05 in [1.27 mm] |

**Connectors**

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | N Male | N Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Gold over Nickel | Brass, Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Material & Plating | Brass, Nickel | Brass, Nickel |

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration: **FMCA2937 - xx uu**

- uu: cm = Centimeters; <blank> = Inches
- xx: Length

Example: FMCA2937-12 = 12 inches long cable
FMCA2937-100cm = 100 cm long cable

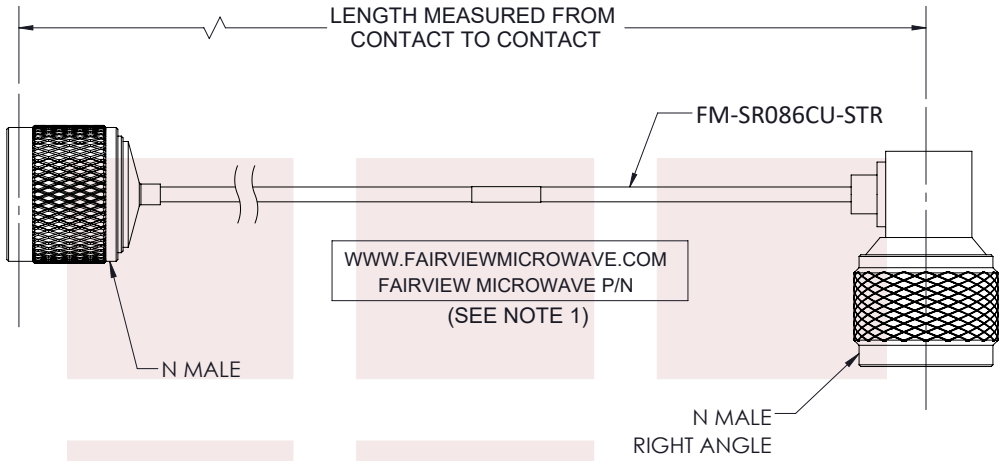
N Male to RA N Male Cable RG405 Type .086 Coax in 60 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: N Male to RA N Male Cable RG405 Type .086 Coax in 60 Inch FMCA2937-60

URL: https://www.fairviewmicrowave.com/n-male-to-ra-n-male-cable-rg405-type-.086-coax-fmca2937-60-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.

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 08/02/2022 | AGANWANI |




NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.
   CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END
   6.0" FROM THE FRONT OF THE CONNECTOR.

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TITLE

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [ .51 ] ± 1/32
.XXX = ±.005 [ .13 ] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 3FKR5 | PSRINIVAS | FMCA2937 | A |

T-Rev.D



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