Fairview Microwave
an INFINITE brand

# FMCA3076 DATA SHEET

## SMA Female to SMA Female Cable Tinned Copper RG405 Type .086 Coax

The SMA female to SMA female cable using Tinned Copper RG405 type .086 coax, part number FMCA3076, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a female to female gender configuration with 50 ohm semi-rigid FM-SR086CUTN-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 FMCA3076 SMA female to SMA female cable assembly operates to 18 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.

### Configuration:

- SMA Female
- SMA Female
- FM-SR086CUTN-STR

### Features:

- Max Frequency 18 GHz

### Applications:

- General Purpose
- Laboratory Use

### Electrical Specifications

| Description | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 18 | GHz |
| VSWR | | | 1.5:1 | |

**Performance by Frequency**

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 1 | 2 | 4.5 | 9 | 18 | GHz |
| Insertion Loss (Typ.) | 0.22 | 0.28 | 0.44 | 0.73 | 1.12 | dB/ft |
| | 0.72 | 0.92 | 1.44 | 2.4 | 3.67 | dB/m |

Electrical Specification Notes:
Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Weight | 0.023 lbs [10.43 g] |

**Cable**

| | |
|---|---|
| Cable Type | FM-SR086CUTN-STR |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Tinned Copper |
| One Time Minimum Bend Radius | 0.05 in [1.27 mm] |

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### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Female | SMA Female |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Gold over Nickel | Brass, Gold over Nickel |

Mechanical Specification Notes:
Maximum length using the straight semi rigid coax is 5ft. For lenghts greater than 5ft, please contact us

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration: **FMCA3076 - xx uu**

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

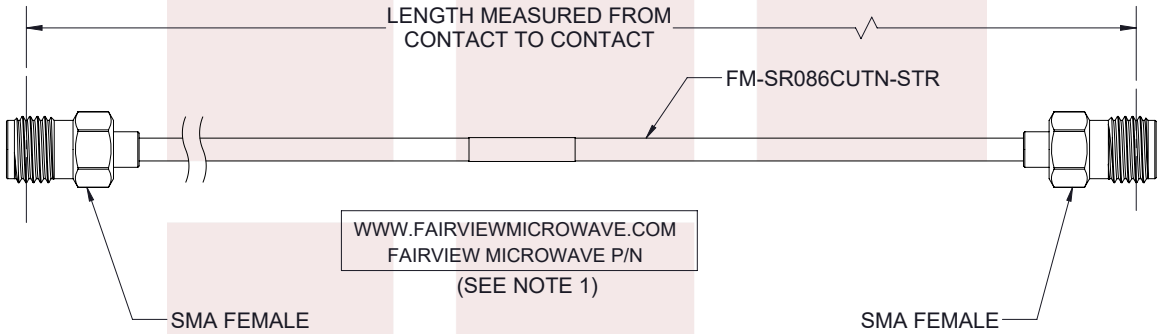
Example: FMCA3076-12 = 12 inches long cable
FMCA3076-100cm = 100 cm long cable

SMA Female to SMA Female Cable Tinned Copper RG405 Type .086 Coax 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: SMA Female to SMA Female Cable Tinned Copper RG405 Type .086 Coax FMCA3076

URL: https://www.fairviewmicrowave.com/sma-female-to-sma-female-cable-tinned-copper-rg405-type-.086-coax-fm-ca3076-p.aspx

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 07/26/22 | 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

SMA Female to SMA Female Cable Tinned Copper RG405 Type .086 Coax

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

TOLERANCES:

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



SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 3FKR5 | VTHANGARAJ | FMCA3076 | A |

T-Rev.D