

**RA N Male to N Female Cable Tinned Aluminum
RG405 Type .086 Coax in 50 CM**

The RA type N male to type N female 50 cm cable using Tinned Aluminum RG405 type .086 coax, part number FMCA2998-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to female gender configuration with 50 ohm semi-rigid FM-SR086ALTN-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 FMCA2998-50CM type N male to type N female cable assembly operates to 11 GHz. The right angle type N interface on the FM-SR086ALTN-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.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------|-----|-----|-------|-------|
| Frequency Range | DC | | 11 | GHz |
| VSWR | | | 1.5:1 | |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|-----|------|----|-------|
| Frequency | 1 | 2.5 | 5 | 11 | | GHz |
| Insertion Loss (Typ.) | 0.68 | 0.84 | 1.1 | 1.72 | | 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* 19.68 in [499.87 mm]
Weight 0.144 lbs [65.32 g]

Cable

Cable Type FM-SR086ALTN-STR
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Steel, Silver
Dielectric Type PTFE
Number of Shields 1
Outer Conductor Material and Plating Tinned Aluminum

One Time Minimum Bend Radius 0.05 in [1.27 mm]


Configuration:

- N Male Right Angle
- N Female
- FM-SR086ALTN-STR

Features:

- Max Frequency 11 GHz

Applications:

- General Purpose
- Laboratory Use

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Connectors

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

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2998 - xx uu

cm = Centimeters
<blank> = Inches

Length

Example: FMCA2998-12 = 12 inches long cable
FMCA2998-100cm = 100 cm long cable

RA N Male to N Female Cable Tinned Aluminum RG405 Type .086 Coax in 50 CM 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: [RA N Male to N Female Cable Tinned Aluminum RG405 Type .086 Coax in 50 CM FMCA2998-50CM](#)

URL: <https://www.fairviewmicrowave.com/ra-n-male-to-n-female-cable-rg405-type-.086-coax-fmca2998-50cm-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.

