

## RA N Male to N Female Bulkhead Cable Tinned Aluminum RG405 Type .086 Coax

The RA type N male to type N female bulkhead cable using Tinned Aluminum RG405 type .086 coax, part number FMCA2999, 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 FMCA2999 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. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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.) | 0.23 | 0.326 | 0.487 | 0.86 |    | dB/ft |
|                       | 0.75 | 1.07  | 1.6   | 2.82 |    | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.167 lbs [75.75 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



### Configuration:

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

### Features:

- Max Frequency 11 GHz

### Applications:

- General Purpose
- Laboratory Use

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One Time Minimum Bend Radius 0.05 in [1.27 mm]

### Connectors

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

Mechanical Specification Notes:

Maximum length using the straight semi rigid coax is 5ft. For lengths 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:

**FMCA2999 - xx uu**

cm = Centimeters  
<blank> = Inches

Length

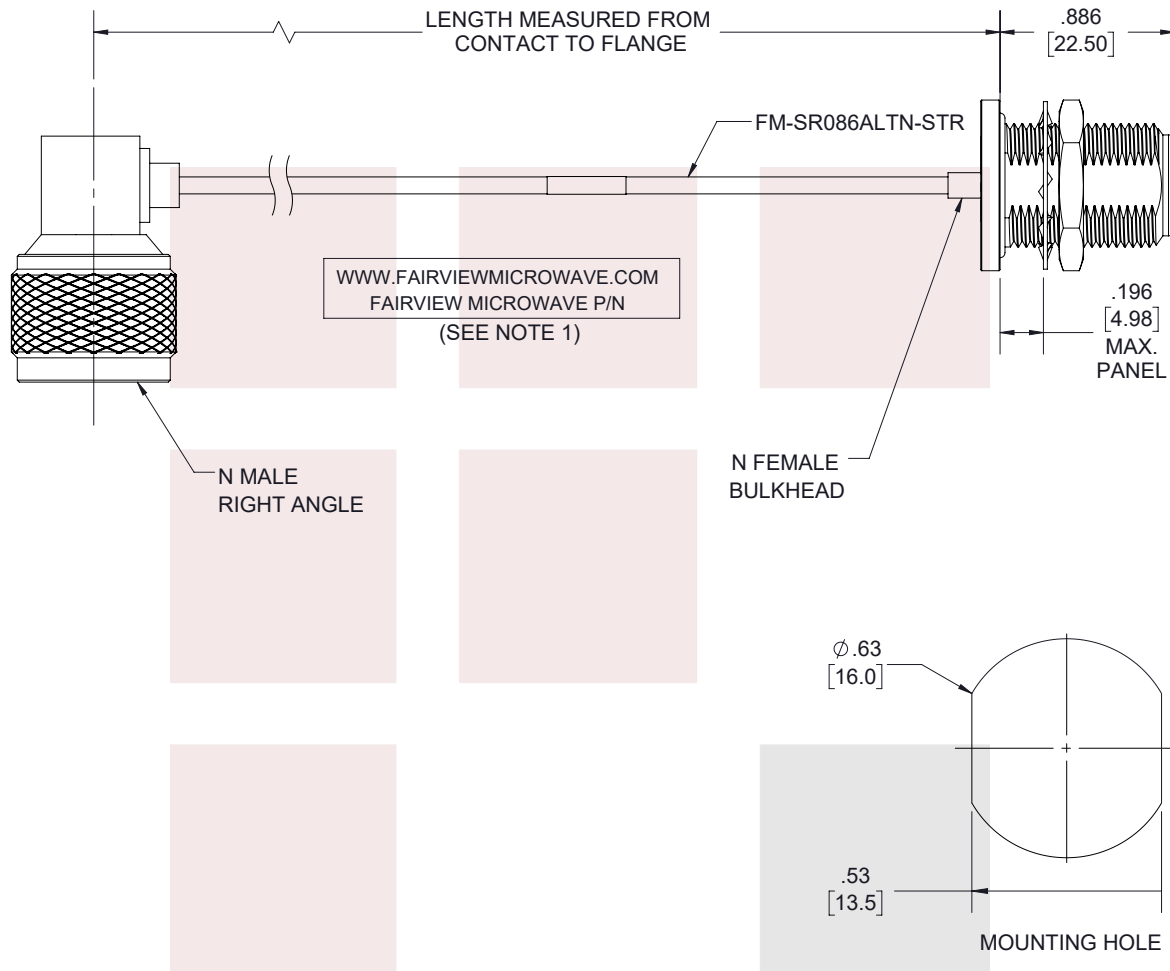
Example: FMCA2999-12 = 12 inches long cable  
FMCA2999-100cm = 100 cm long cable

RA N Male to N Female Bulkhead Cable Tinned Aluminum 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: [RA N Male to N Female Bulkhead Cable Tinned Aluminum RG405 Type .086 Coax FMCA2999](#)

URL: <https://www.fairviewmicrowave.com/ra-n-male-to-n-female-bulkhead-cable-tinned-aluminum-rg405-type-.086-coax-fmca2999-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.



**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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Aluminum RG405 Type .086 Coax

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

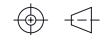
**TOLERANCES:**

.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

SCALE

N/A

SIZE  
A

CAGE CODE  
3FKR5

DRAWN BY  
PSRINIVAS

ITEM NO.  
FMCA2999

REV  
A

T-Rev.D