

## RA N Male to N Female Bulkhead Cable RG402 Type .141 Coax in 50 CM

The RA type N male to type N female bulkhead 50 cm cable using RG402 type .141 coax, part number FMCA2814-50CM, 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-SR141CU-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 FMCA2814-50CM type N male to type N female cable assembly operates to 11 GHz. The right angle type N interface on the FM-SR141CU-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 |       |
| Velocity of Propagation |     | 69.5 |       | %     |

### Performance by Frequency

| Description           | F1  | F2   | F3   | F4   | F5 | Units |
|-----------------------|-----|------|------|------|----|-------|
| Frequency             | 1   | 2.5  | 5    | 11   |    | GHz   |
| Insertion Loss (Typ.) | 0.5 | 0.59 | 0.74 | 1.05 |    | 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 0.21 lbs [95.25 g]

#### Cable

Cable Type FM-SR141CU-STR  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1



### Configuration:

- N Male Right Angle
- N Female Bulkhead
- FM-SR141CU-STR

### Features:

- Max Frequency 11 GHz
- 69.5% Phase Velocity

### Applications:

- General Purpose
- Laboratory Use

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Outer Conductor Material and Plating      Copper  
 Repeated Minimum Bend Radius          0.25 in [6.35 mm]

**Connectors**

| Description                     | Connector 1             | Connector 2                |
|---------------------------------|-------------------------|----------------------------|
| Type                            | N Male                  | N Female                   |
| Mount Method                    |                         | Bulkhead                   |
| Specification                   | MIL-STD-348             | MIL-STD-348A               |
| Impedance                       | 50 Ohms                 | 50 Ohms                    |
| Contact Material & Plating      | Brass, Gold over Nickel | Beryllium Copper, Gold     |
| Contact Plating Spec.           | MIL-G-45204             | 30 µin minimum             |
| Dielectric Type                 | PTFE                    | PTFE                       |
| Body Material & Plating         | Brass, Gold over Nickel | Passivated Stainless Steel |
| Body Plating Spec.              | MIL-G-45204             |                            |
| Coupling Nut Material & Plating | Brass, Nickel           |                            |
| Coupling Nut Plating Spec.      | QQ-N-290                |                            |

**Environmental Specifications**

**Temperature**  
 Operating Range      -55 to +125 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA2814 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2814-12 = 12 inches long cable  
 FMCA2814-100cm = 100 cm long cable

RA N Male to N Female Bulkhead Cable RG402 Type .141 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.

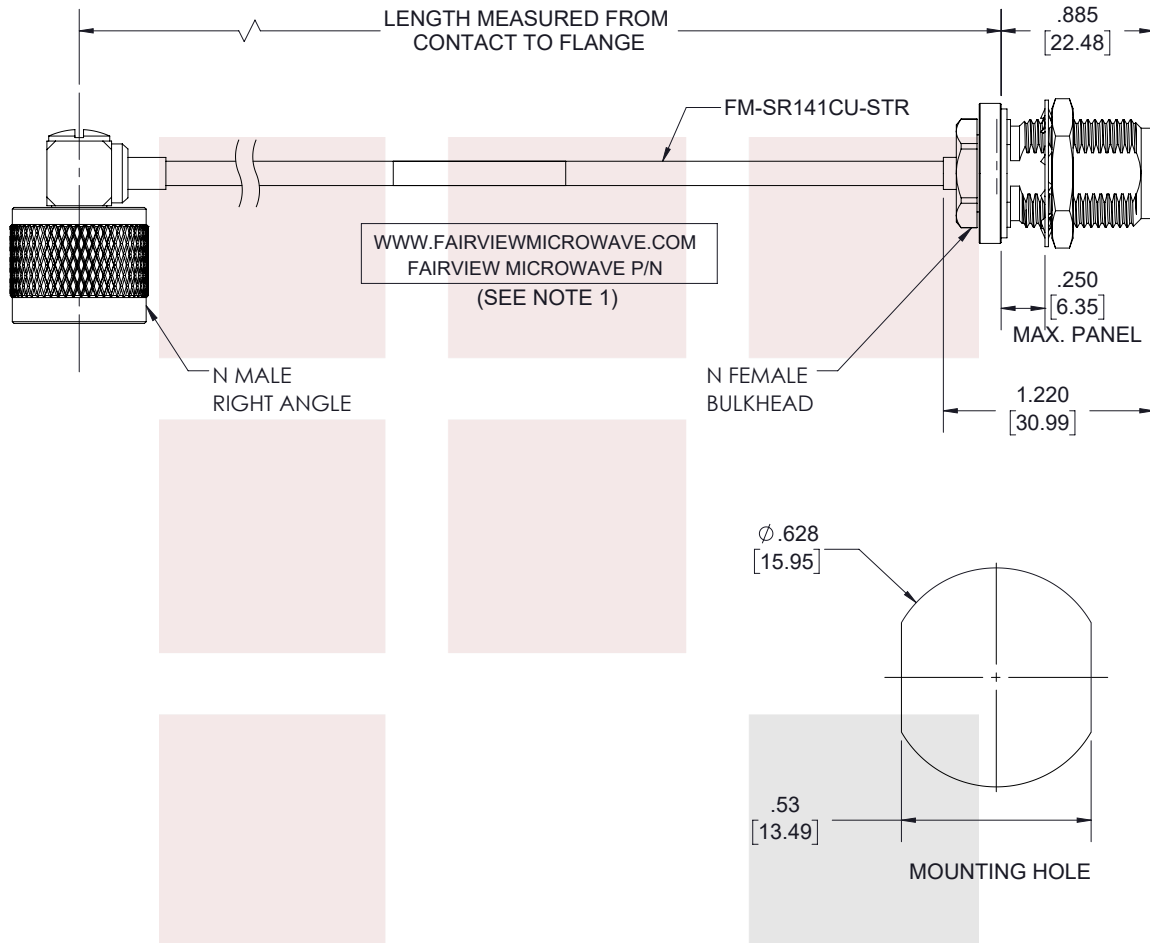
Click the following link to obtain additional part information: [RA N Male to N Female Bulkhead Cable RG402 Type .141 Coax in 50 CM FMCA2814-50CM](#)

URL: <https://www.fairviewmicrowave.com/ra-n-male-to-n-female-bulkhead-cable-rg402-type-.141-coax-fmca2814-50cm-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.



| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 07/02/2022 | AGANWANI |



**NOTES:**

- 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

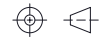
RA N Male to N Female Bulkhead Cable RG402 Type  
.141 Coax in 50 CM

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

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

|                    |             |   |
|--------------------|-------------|---|
| .X = ±.2 [5.08]    | FRACTIONS   | L ≤ 12 [305] = +1 [25] / -0                 |
| .XX = ±.02 [.51]   | ± 1/32      | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0     |
| .XXX = ±.005 [.13] | ANGLES ± 1° | 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<br>A | CAGE CODE<br>3FKR5 | DRAWN BY<br>PSRINIVAS | ITEM NO.<br>FMCA2814 | REV<br>A |
|-----------|--------------------|-----------------------|----------------------|----------|

T-Rev.D