

## N Male to N Female 4 Hole Flange Cable RG402 Type .141 Coax in 48 Inch

The type N male to type N female 4 hole flange cable using RG402 type .141 coax, part number FMCA2811-48, 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 FMCA2811-48 type N male to type N female cable assembly operates to 11 GHz. Our RF cable assembly with type N 4 hole flange 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.) | 0.68 | 0.9  | 1.27 | 2.03 |    | dB/ft |
|                       | 2.23 | 2.95 | 4.17 | 6.66 |    | dB/m  |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

|         |                     |
|---------|---------------------|
| Length* | 48 in [121.92 cm]   |
| Weight  | 0.172 lbs [78.02 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                         |
| Outer Conductor Material and Plating | Copper                    |



### Configuration:

- N Male
- N Female 4 Hole Flange
- FM-SR141CU-STR

### Features:

- Max Frequency 11 GHz
- 69.5% Phase Velocity

### Applications:

- General Purpose
- Laboratory Use

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Repeated Minimum Bend Radius 0.25 in [6.35 mm]

### Connectors

| Description                     | Connector 1     | Connector 2      |
|---------------------------------|-----------------|------------------|
| Type                            | N Male          | N Female         |
| Mount Method                    |                 | 4 Hole Flange    |
| Specification                   | MIL-STD-348A    | MIL-STD-348A     |
| Impedance                       | 50 Ohms         | 50 Ohms          |
| Contact Material & Plating      | Brass, Gold     | Brass, Gold      |
| Contact Plating Spec.           | 30 µin minimum  | 30µ in. minimum  |
| Dielectric Type                 | PTFE            | PTFE             |
| Body Material & Plating         | Brass, Gold     | Brass, Nickel    |
| Body Plating Spec.              |                 | 100µ in. minimum |
| Coupling Nut Material & Plating | Brass, Nickel   | Brass, Nickel    |
| Coupling Nut Plating Spec.      | 100 µin minimum | 100µ in. minimum |

### 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:

**FMCA2811 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

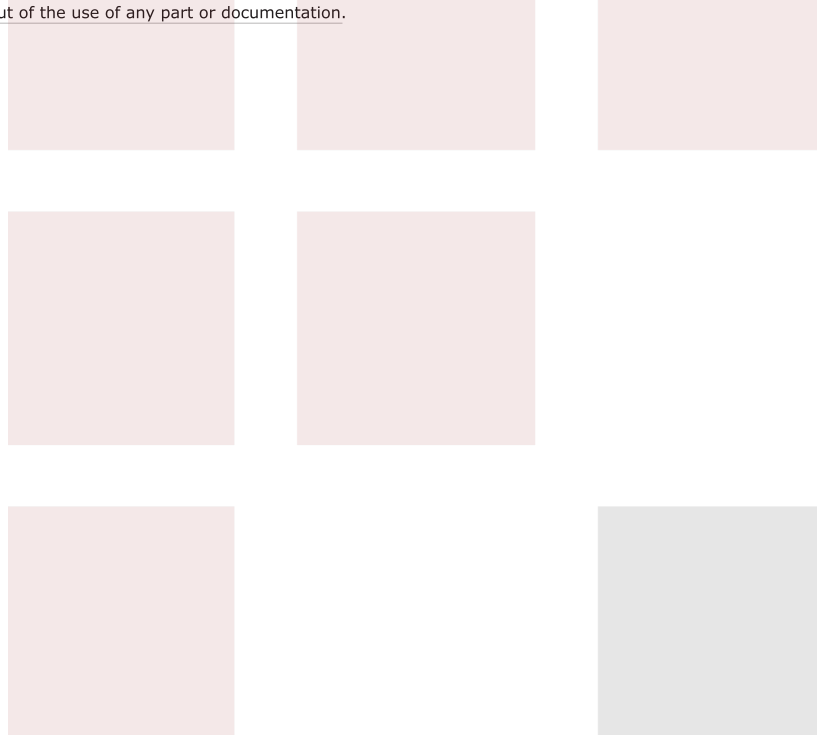
Example: FMCA2811-12 = 12 inches long cable  
 FMCA2811-100cm = 100 cm long cable

N Male to N Female 4 Hole Flange Cable RG402 Type .141 Coax in 48 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.

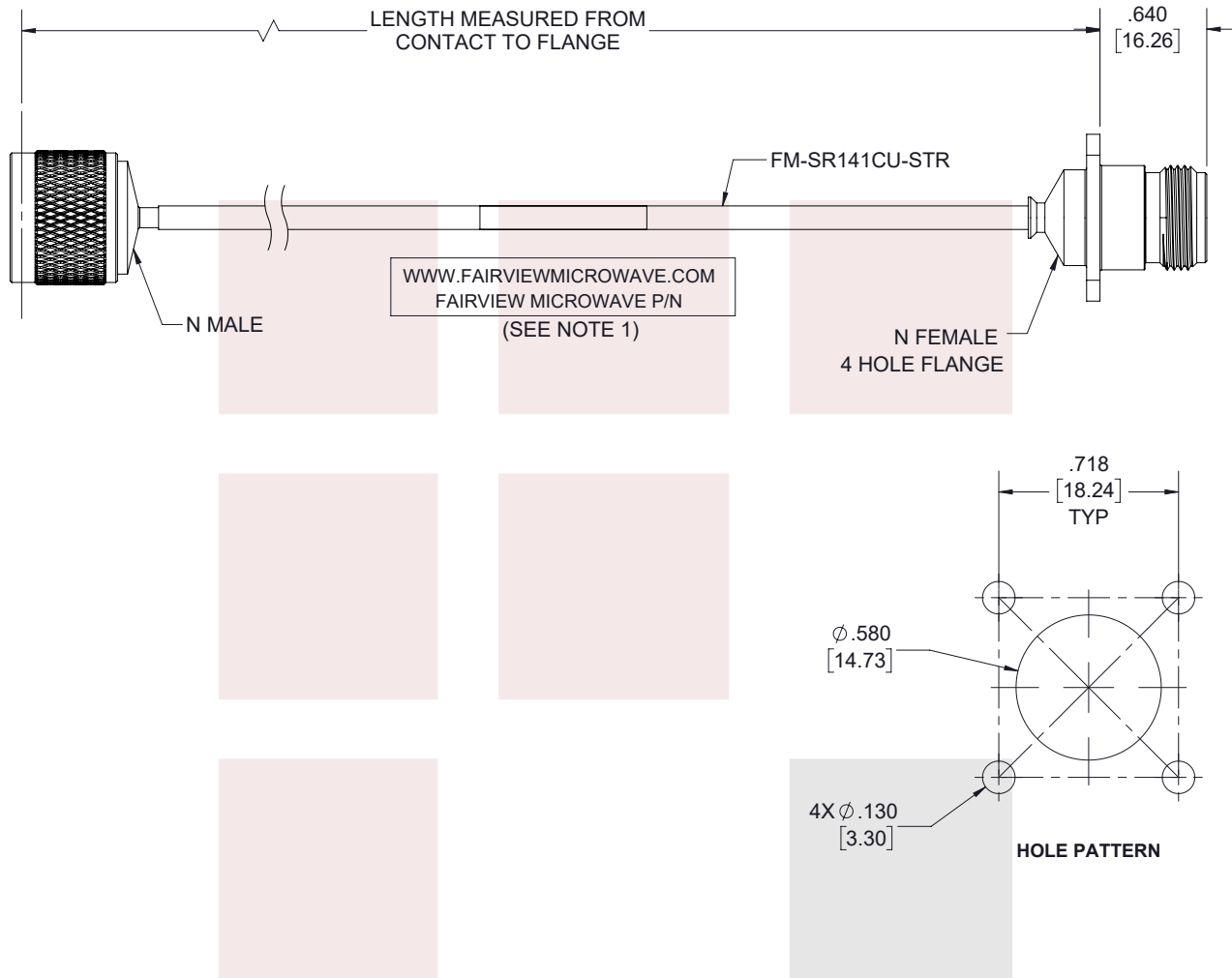
Click the following link to obtain additional part information: [N Male to N Female 4 Hole Flange Cable RG402 Type .141 Coax in 48 Inch FMCA2811-48](#)

URL: <https://www.fairviewmicrowave.com/n-male-to-n-female-4-hole-flange-cable-rg402-type-.141-coax-fmca2811-48-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 | 07/11/2022 | 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.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

TITLE

N Male to N Female 4 Hole Flange Cable RG402 Type  
.141 Coax in 48 Inch

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**



THE INFORMATION AND  
DESIGN IN THIS DOCUMENT  
IS THE PROPERTY OF  
FAIRVIEW MICROWAVE CORPORATION.  
ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. |                    |                       |                      |          |
|----------------------------------------------|--------------------|-----------------------|----------------------|----------|
| SIZE<br>A                                    | CAGE CODE<br>3FKR5 | DRAWN BY<br>PSRINIVAS | ITEM NO.<br>FMCA2811 | REV<br>A |

T-Rev.D