

## RA N Male to N Female Cable RG402 Type .141 Coax in 24 Inch

The RA type N male to type N female 24 inch cable using RG402 type .141 coax, part number FMCA2813-24, 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 FMCA2813-24 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.

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.)	0.54	0.65	0.84	1.22		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*	24 in [609.6 mm]
Weight	0.205 lbs [92.99 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
Repeated Minimum Bend Radius	0.25 in [6.35 mm]



### Configuration:

- N Male Right Angle
- N Female
- 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)

## Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold over Nickel	Phosphor Bronze, Gold over Nickel
Contact Plating Spec.	MIL-G-45204	
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold over Nickel	Brass, Nickel
Body Plating Spec.	MIL-G-45204	
Coupling Nut Material & Plating	Brass, Nickel	
Coupling Nut Plating Spec.	QQ-N-290	

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMCA2813 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2813-12 = 12 inches long cable  
 FMCA2813-100cm = 100 cm long cable

RA N Male to N Female Cable RG402 Type .141 Coax in 24 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: [RA N Male to N Female Cable RG402 Type .141 Coax in 24 Inch FMCA2813-24](#)

URL: <https://www.fairviewmicrowave.com/ra-n-male-to-n-female-cable-rg402-type-.141-coax-fmca2813-24-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.

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LENGTH MEASURED FROM CONTACT TO CONTACT

FM-SR141CU-STR

WWW.FAIRVIEWMICROWAVE.COM  
FAIRVIEW MICROWAVE P/N  
(SEE NOTE 1)

N MALE  
RIGHT ANGLE

N FEMALE

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.

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.

Fairview Microwave

an INFINITE brand

TITLE  
RA N Male to N Female Cable RG402 Type .141 Coax  
in 24 Inch

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

TOLERANCES:

CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [ .508 ] FRACTIONS  
.XX = ±.02 [ .51 ] ± 1/32  
.XXX = ±.005 [ .13 ] ANGLES ± 1°

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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A  
CAGE CODE 3FKR5  
DRAWN BY PSRINIVAS  
ITEM NO. FMCA2813  
REV A

THIRD-ANGLE PROJECTION  
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SHEET 1 OF 1  
SCALE N/A

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301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

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