

## RA N Male to N Female Bulkhead Cable Tinned Aluminum RG402 Type .141 Coax

The RA type N male to type N female bulkhead cable using Tinned Aluminum RG402 type .141 coax, part number FMCA2859, 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-SR141ALTN-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 FMCA2859 type N male to type N female cable assembly operates to 11 GHz. The right angle type N interface on the FM-SR141ALTN-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.)	0.13	0.185	0.276	0.485		dB/ft
	0.43	0.61	0.91	1.59		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 0.176 lbs [79.83 g]

#### Cable

Cable Type FM-SR141ALTN-STR  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Shield Layer 1 Tinned Aluminum  
Jacket Diameter 0.141 in [3.58 mm]



### Configuration:

- N Male Right Angle
- N Female Bulkhead
- FM-SR141ALTN-STR

### Features:

- Max Frequency 11 GHz

### Applications:

- General Purpose
- Laboratory Use

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One Time Minimum Bend Radius 0.1 in [2.54 mm]

### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Mount Method		Bulkhead
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Gold	Beryllium Copper, Gold
Contact Plating Spec.		30μ in. minimum
Dielectric Type	PTFE	Teflon
Outer Cond Material & Plating		Brass, Gold
Outer Cond Plating Spec.		30μ in. minimum
Body Material & Plating	Brass, Gold	Passivated Stainless Steel
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:

**FMCA2859 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2859-12 = 12 inches long cable  
 FMCA2859-100cm = 100 cm long cable

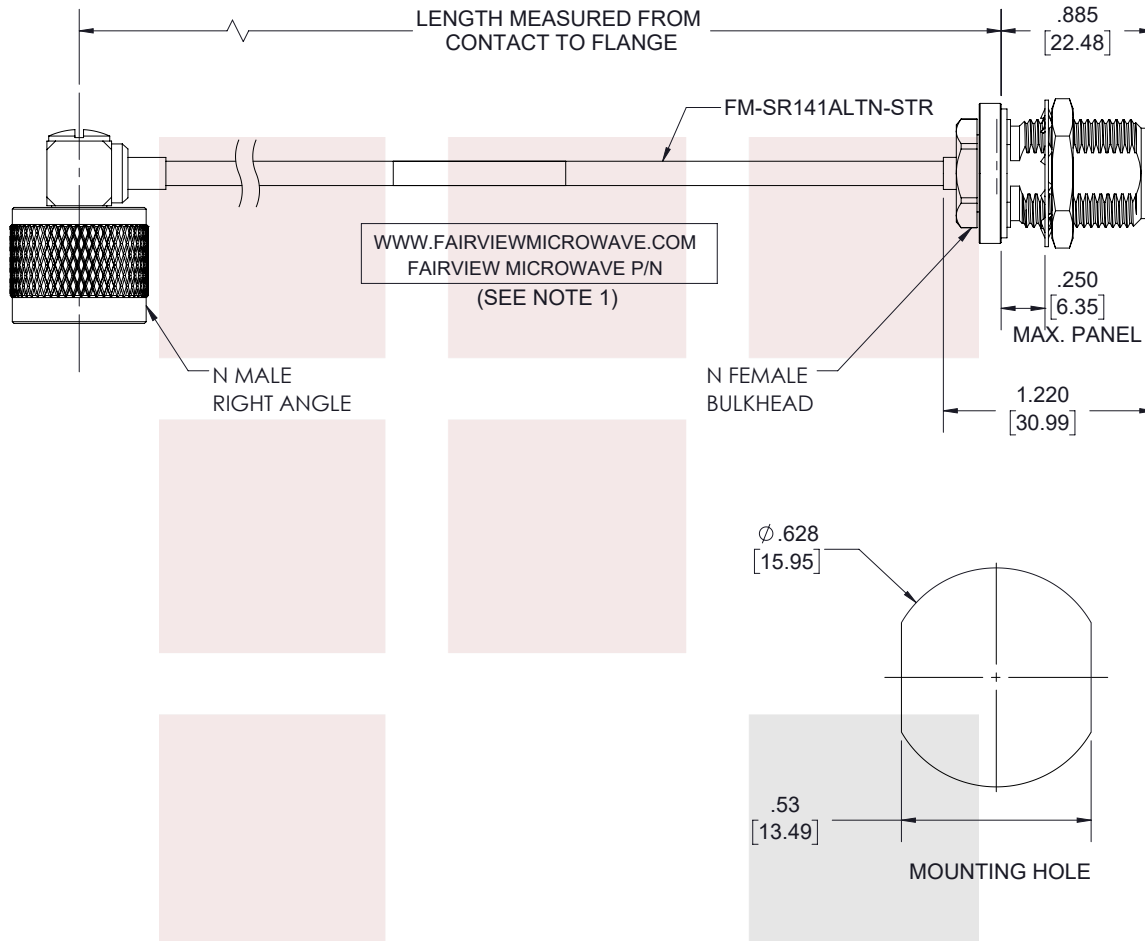
RA N Male to N Female Bulkhead Cable Tinned Aluminum RG402 Type .141 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RA N Male to N Female Bulkhead Cable Tinned Aluminum RG402 Type .141 Coax FMCA2859](https://www.fairviewmicrowave.com/ra-n-male-to-n-female-bulkhead-cable-tinned-aluminum-rg402-type-.141-coax-fmca2859-p.aspx)

URL: <https://www.fairviewmicrowave.com/ra-n-male-to-n-female-bulkhead-cable-tinned-aluminum-rg402-type-.141-coax-fmca2859-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 RG402 Type .141 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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**THIRD-ANGLE PROJECTION**



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SHEET 1 OF 1

SCALE

N/A

SIZE  
A

CAGE CODE  
3FKR5

DRAWN BY  
PSRINIVAS

ITEM NO.  
FMCA2859

REV  
A

T-Rev.D