

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

The RA type N male to type N female bulkhead cable using Tinned Copper RG402 type .141 coax, part number FMCA2903, 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-SR141CUTN-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 FMCA2903 type N male to type N female cable assembly operates to 11 GHz. The right angle type N interface on the FM-SR141CUTN-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.)	0.12	0.175	0.266	0.475		dB/ft
	0.39	0.57	0.87	1.56		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 0.188 lbs [85.28 g]

Cable

Cable Type FM-SR141CUTN-STR
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Outer Conductor Material and Plating Tinned Copper



Configuration:

- N Male Right Angle
- N Female Bulkhead
- FM-SR141CUTN-STR

Features:

- Max Frequency 11 GHz
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

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One Time Minimum Bend Radius 1 in [25.4 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	

Mechanical Specification Notes:

Maximum length using the straight semi rigid coax is 5ft. For lengths greater than 5ft, please contact us

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:

FMCA2903 - xx uu

cm = Centimeters
 <blank> = Inches

Length

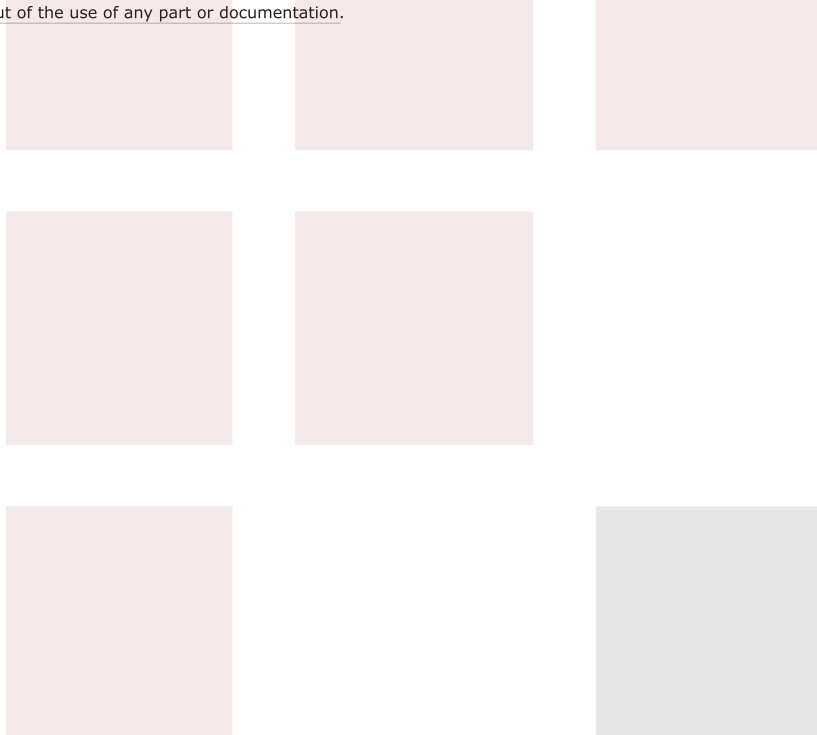
Example: FMCA2903-12 = 12 inches long cable
 FMCA2903-100cm = 100 cm long cable

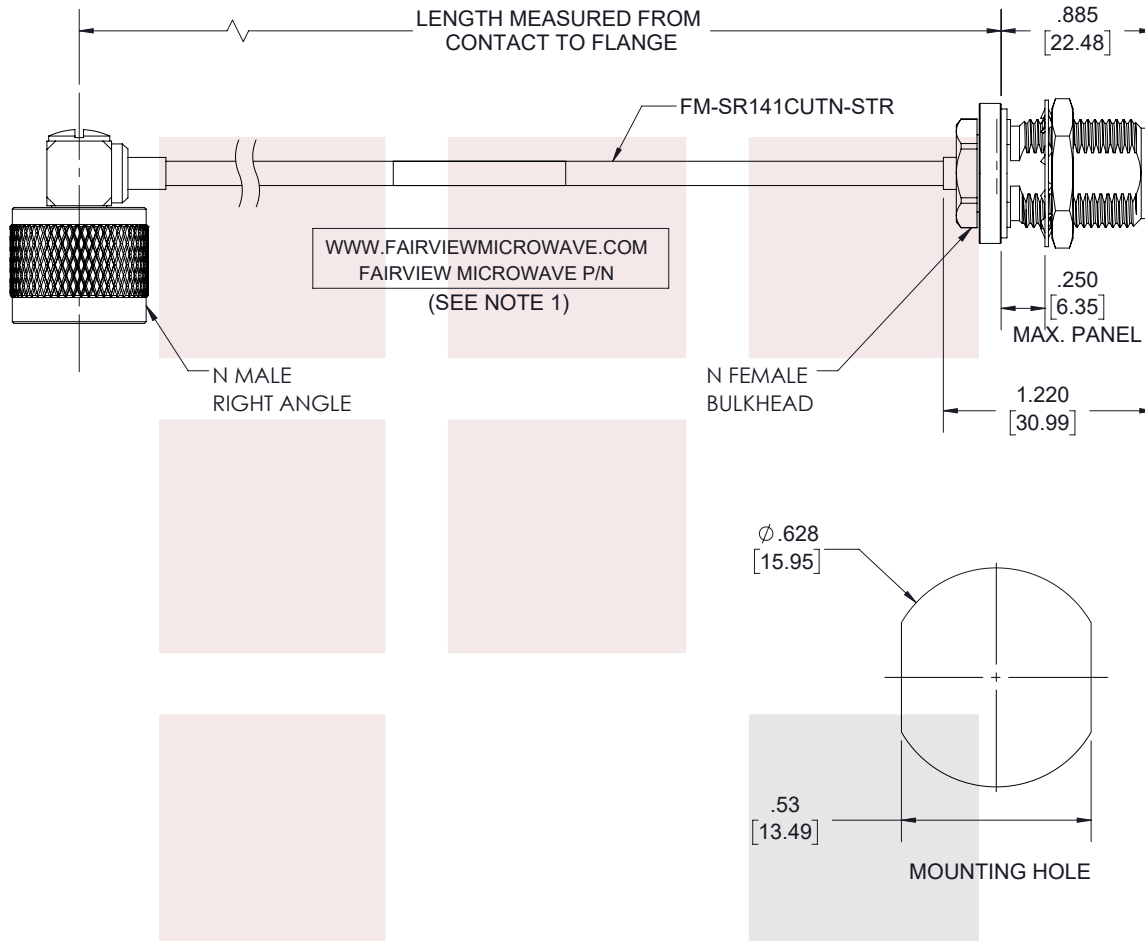
RA N Male to N Female Bulkhead Cable Tinned Copper RG402 Type .141 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RA N Male to N Female Bulkhead Cable Tinned Copper RG402 Type .141 Coax FMCA2903](https://www.fairviewmicrowave.com/ra-n-male-to-n-female-bulkhead-cable-tinned-copper-rg402-type-.141-coax-fmca2903-p.aspx)

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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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ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

TITLE

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

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

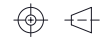
TOLERANCES:

.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

THIRD-ANGLE PROJECTION



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DESIGN IN THIS DOCUMENT
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SHEET 1 OF 1

SCALE

N/A

SIZE
A

CAGE CODE
3FKR5

DRAWN BY
PSRINIVAS

ITEM NO.
FMCA2903

REV
A

T-Rev.D