

## N Male to N Female Bulkhead Cable Tinned Aluminum RG401 Type .250 Coax

The type N male to type N female bulkhead cable using Tinned Aluminum RG401 type .250 coax, part number FMCA3124, 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-SR250ALTN-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 FMCA3124 type N male to type N female cable assembly operates to 11 GHz. 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	%	
Capacitance		29.6 [97.11]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)		7,500		Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	5	11		GHz
Insertion Loss (Typ.)	0.08	0.123	0.195	0.354		dB/ft
	0.26	0.4	0.64	1.16		dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.265 lbs [120.2 g]

#### Cable

Cable Type FM-SR250ALTN-STR  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Tinned Aluminum



#### Configuration:

- N Male
- N Female Bulkhead
- FM-SR250ALTN-STR

#### Features:

- Max Frequency 11 GHz
- 69.5% Phase Velocity

#### Applications:

- General Purpose
- Laboratory Use

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Jacket Diameter 0.25 in [6.35 mm]

One Time 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-348A	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	30 $\mu$ in. minimum	30 $\mu$ in. minimum
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Gold	Brass, Nickel
Body Plating Spec.	3 $\mu$ in. minimum	100 $\mu$ in. minimum
Coupling Nut Material & Plating	Brass, Nickel	
Coupling Nut Plating Spec.	100 $\mu$ in. minimum	

**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)

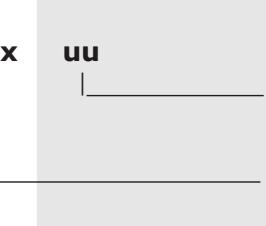
**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

**How to Order**

Part Number Configuration:

**FMCA3124 - xx uu**


cm = Centimeters  
 <blank> = Inches  
 Length

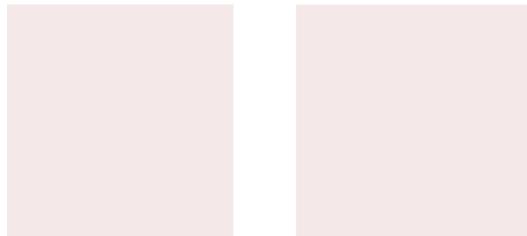
 Example: FMCA3124-12 = 12 inches long cable  
 FMCA3124-100cm = 100 cm long cable

N Male to N Female Bulkhead Cable Tinned Aluminum RG401 Type .250 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.

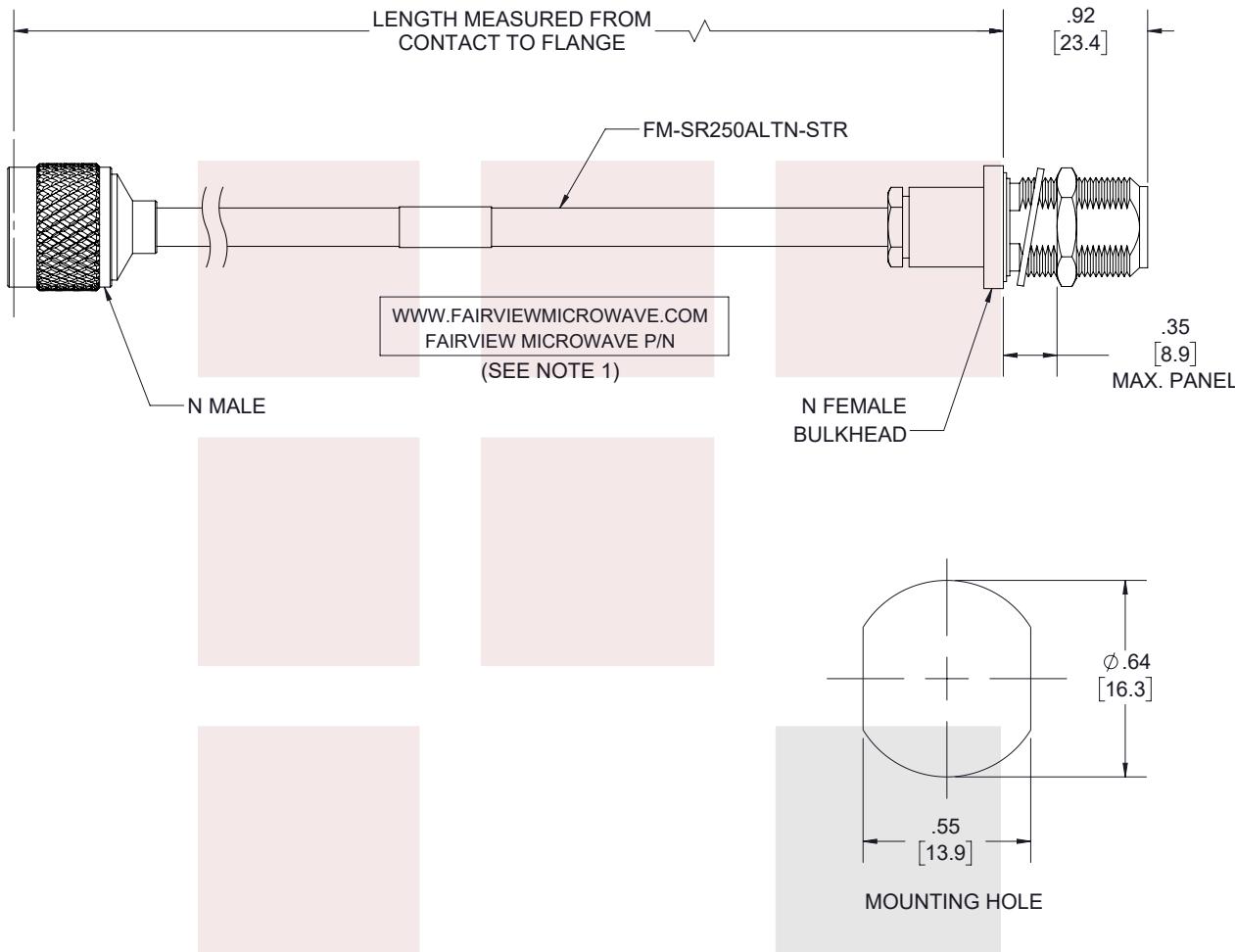
Click the following link to obtain additional part information: [N Male to N Female Bulkhead Cable Tinned Aluminum RG401 Type .250 Coax FMCA3124](#)

URL: <https://www.fairviewmicrowave.com/n-male-to-n-female-bulkhead-cable-tinned-aluminum-rg401-type-.250-coax-fmca3124-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	07/05/22	AGANWANI



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.

<b>Fairview Microwave</b> an INFINITE brand		UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TITLE		TOLERANCES:      CABLE LENGTH (L) TOLERANCES:	
N Male to N Female Bulkhead Cable Tinned Aluminum RG401 Type .250 Coax		.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 	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			SCALE      N/A
SIZE A	CAGE CODE 3FKR5	DRAWN BY VTHANGARAJ	ITEM NO. FMCA3124
			REV A

T-Rev.D