

3.5mm Male to 3.5mm Male Cable Tinned Aluminum RG402 Type .141 Coax in 48 Inch

The 3.5mm male to 3.5mm male 48 inch cable using Tinned Aluminum RG402 type .141 coax, part number FMCA2831-48, from Fairview Microwave is in-stock and ships same day. This Fairview 3.5mm to 3.5mm cable assembly has a male to male 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 FMCA2831-48 3.5mm male to 3.5mm male cable assembly operates to 34 GHz.

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		34	GHz
VSWR			1.5:1	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	20	GHz
Insertion Loss (Typ.)	0.72	0.87	1.24	1.9	3.04	dB

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	0.1 lbs [45.36 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]

One Time Minimum Bend Radius	0.1 in [2.54 mm]
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Configuration:

- 3.5mm Male
- 3.5mm Male
- FM-SR141ALTN-STR

Features:

- Max Frequency 34 GHz

Applications:

- General Purpose
- Laboratory Use

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Connectors

Description	Connector 1	Connector 2
Type	3.5mm Male	3.5mm Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	50μ in. minimum	50μ in. minimum
Dielectric Type	PCTFE	PCTFE
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Spec.	SAE-AMS-2700	SAE-AMS-2700
Hex Size	5/16 in.	5/16 in.
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm

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:

FMCA2831 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA2831-12 = 12 inches long cable
 FMCA2831-100cm = 100 cm long cable

3.5mm Male to 3.5mm Male Cable Tinned Aluminum 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: [3.5mm Male to 3.5mm Male Cable Tinned Aluminum RG402 Type .141 Coax in 48 Inch FMCA2831-48](#)

URL: <https://www.fairviewmicrowave.com/3.5mm-male-to-3.5mm-male-cable-tinned-aluminum-rg402-type-.141-coax-in-48-inch-fmca2831-48-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	07/02/2022	AGANWANI

3.5mm MALE

LENGTH MEASURED FROM CONTACT TO CONTACT

FM-SR141ALTN-STR

3.5mm MALE

WWW.FAIRVIEWMICROWAVE.COM

FAIRVIEW MICROWAVE P/N

(SEE NOTE 1)

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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Fairview Microwave an INFINITE brand TITLE 3.5mm Male to 3.5mm Male Cable Tinned Aluminum RG402 Type .141 Coax in 48 Inch		UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: CABLE LENGTH (L) TOLERANCES: X = ±.2 [.508] XX = ±.02 [.51] XXX = ±.005 [.13] FRACTIONS ± 1/32 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 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 A CAGE CODE 3FKR5 DRAWN BY PSRINIVAS ITEM NO. FMCA2831 REV A
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