

4.1/9.5 Mini DIN Male to RA 4.1/9.5 Mini DIN Male Cable 1/4 inch Superflexible Coax in 12 Inch

The 4.1/9.5 Mini DIN male to RA 4.1/9.5 Mini DIN male 12 inch cable using 1/4 inch superflexible coax, part number FMCA2231-12, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to 4.1/9.5 Mini DIN cable assembly has a male to male gender configuration with 50 ohm corrugated 1/4" superflexible coax. Fairview Microwave's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. The FMCA2231-12 4.1/9.5 Mini DIN male to 4.1/9.5 Mini DIN male cable assembly operates to 6 GHz. The right angle 4.1/9.5 Mini DIN interface on the 1/4" Superflexible 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		6	GHz
VSWR			1.5:1	
Velocity of Propagation		82		%
RF Shielding	120			dB
Passive Intermodulation			-150	dBc
Capacitance		24.4 [80.05]		pF/ft [pF/m]
Inductance		0.059 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		2.53 [8.3]		Ω /1000ft [Ω /Km]
Jacket Spark			2,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.26	0.27	0.28	0.3	0.35	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 0.15 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length* 12 in [304.8 mm]
 Diameter 0.94 in [23.88 mm]



Configuration:

- 4.1/9.5 Mini DIN Male
- 4.1/9.5 Mini DIN Male Right Angle
- 1/4" Superflexible

Features:

- Max Frequency 6 GHz
- Low PIM: -150 dBc Max
- Shielding Effectivity > 120 dB
- 82% Phase Velocity
- PE Jacket
- Low PIM and Low Loss
- 100% Tested with PIM Test Results Marked on Cable

Applications:

- General Purpose
- Laboratory Use
- Distributed Antenna Systems (DAS)
- Low PIM Applications and PIM Testing

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Cable

Cable Type 1/4" Superflexible
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Aluminum
 Dielectric Type PE (F)
 Number of Shields 1
 Shield Layer 1 Helicallly Corrugated Copper Tube
 Jacket Material PE, Black
 Jacket Diameter 0.303 in [7.7 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]
 Repeated Minimum Bend Radius 1 in [25.4 mm]
 Typical Flex Cycles 20
 Tensile Strength 79 lbs [35.83 Kg]

Connectors

Description	Connector 1	Connector 2
Type	4.1/9.5 Mini DIN Male	4.1/9.5 Mini DIN Male
Specification	IEC 61169-11	IEC 61169-11
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications
Temperature

Operating Range -40 to +85 deg C

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

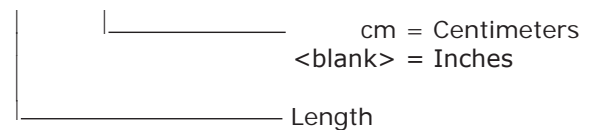
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2231 - xx uu



Example: FMCA2231-12 = 12 inches long cable
 FMCA2231-100cm = 100 cm long cable

4.1/9.5 Mini DIN Male to RA 4.1/9.5 Mini DIN Male Cable 1/4 inch Superflexible Coax in 12 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

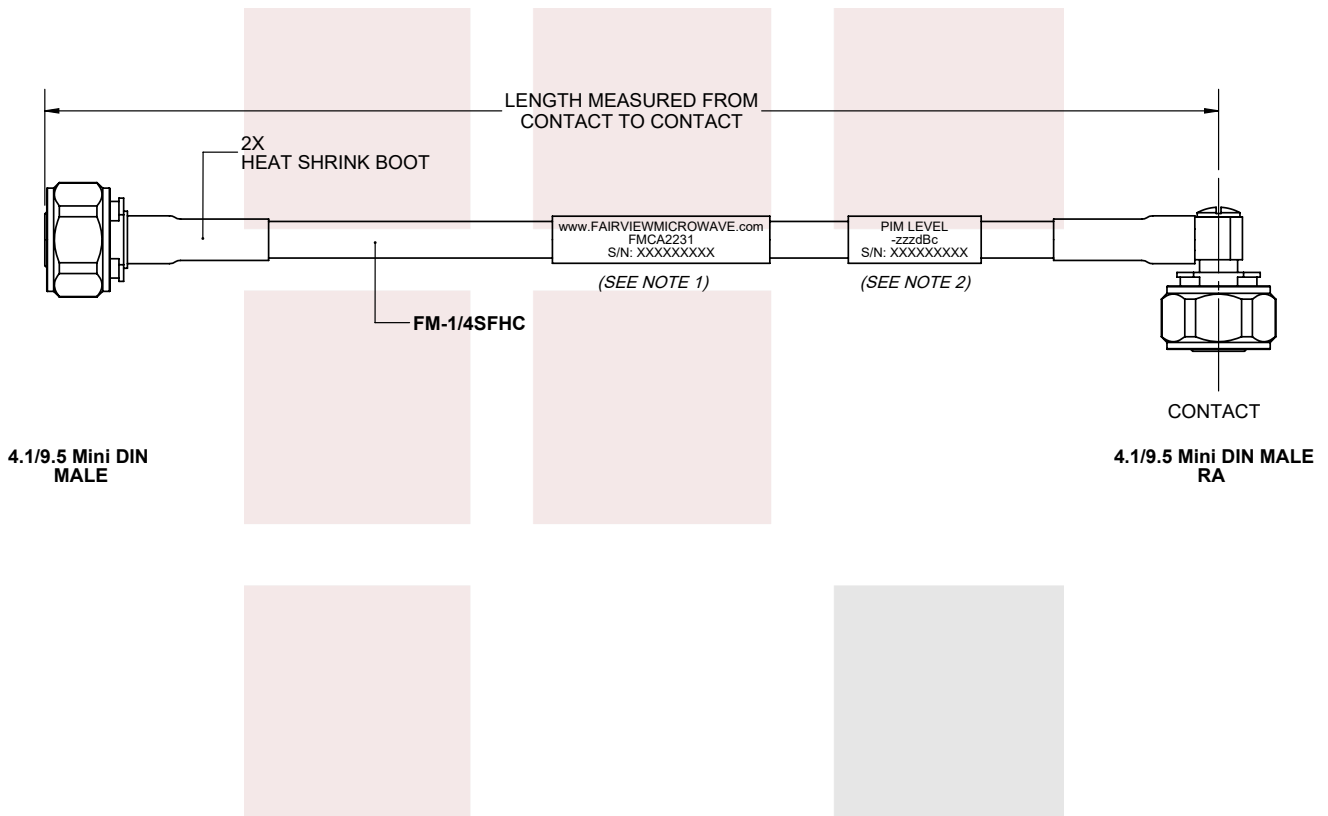
Click the following link to obtain additional part information: [4.1/9.5 Mini DIN Male to RA 4.1/9.5 Mini DIN Male Cable 1/4 inch Superflexible Coax in 12 Inch FMCA2231-12](https://www.fairviewmicrowave.com/4.1-9.5-male-4.1-9.5-male-pe-1-4-sfhc-cable-assembly-FMCA2231-p.aspx)

URL: <https://www.fairviewmicrowave.com/4.1-9.5-male-4.1-9.5-male-pe-1-4-sfhc-cable-assembly-FMCA2231-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	1/18/2021	S.ELLIS



NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12.0" FROM THE END OF THE CONNECTOR.
2. 6" FROM CABLE END 1 PLACE FOR ALL LENGTHS OF CABLE.

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<p>Fairview Microwave an INFINIT[®] brand</p>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		THIRD-ANGLE PROJECTION 	
	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE 4.1/9.5 Mini DIN Male to RA 4.1/9.5 Mini DIN Male Cable 1/4 inch Superflexible Coax in 12 Inch	.X = ±.2 [.508] FRACTIONS	L ≤ 12 [305] = +1 [25] / -0	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.	
	.XX = ±.02 [.51] ± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0	SHEET 1 OF 1	
.XXX = ±.005 [.13] ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	SCALE N/A		
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SIZE A CAGE CODE 3FKR5 DRAWN BY K.DANG ITEM NO. FMCA2231 REV A		

T-Rev.D