

FMCA2231 DATA SHEET

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

The 4.1/9.5 Mini DIN male to RA 4.1/9.5 Mini DIN male cable using 1/4 inch superflexible coax, part number FMCA2231, 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 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	Т	ур	Max	ι	Inits
Frequency Range	DC			6		GHz
VSWR				1.5:1		
Velocity of Propagation		8	32			%
RF Shielding	120					dB
Passive Intermodulation				-150		dBc

Capacitance		24.4 [80.05]		pF/ft [pF/r	n]
Inductance		0.059 [0.19]		uH/ft [uH/r	m]
DC Resistance Inner Cor	nductor	3.2 [10.5]		Ω/1000ft [Ω/	Km]
DC Resistance Outer Cor	nductor	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.)	0.016 0.05	0.026 0.09	0.039 0.13	0.057 0.19	0.107 0.3 5	dB/ft dB/m
	0.05	0.09	0.13	0.19	0.35	dB,

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.25 dB connector loss.

Mechanical Specifications

Cable Assembly

Diameter 0.94 in [23.88 mm]

Cable

Cable Type 1/4" Superflexible



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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Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Typical Flex Cycles

Tensile Strength

50 Ohms Solid

Copper Clad Aluminum

PE (F) 1

Helically Corrugated Copper Tube

PE, Black

0.303 in [7.7 mm]

0.5 in [12.7 mm] 1 in [25.4 mm]

20

79 lbs [35.83 Kg]

Connectors

Description	Connector 1	. Connector 2		
Туре	4.1/9.5 Mini DIN I	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-Meta	Brass, Tri-Metal		
Coupling Nut Material & Pla	ting Brass, Tri-Meta	l 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

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cm = Centimeters

lank> = Inches

Length

Example: FMCA2231-12 = 12 inches long cable

FMCA2231-100cm = 100 cm long cable

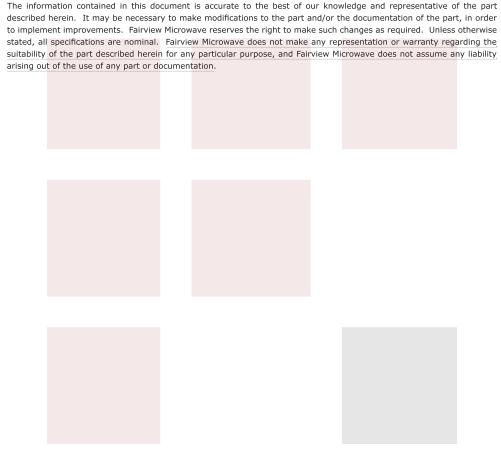




4.1/9.5 Mini DIN Male to RA 4.1/9.5 Mini DIN Male Cable 1/4 inch Superflexible Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

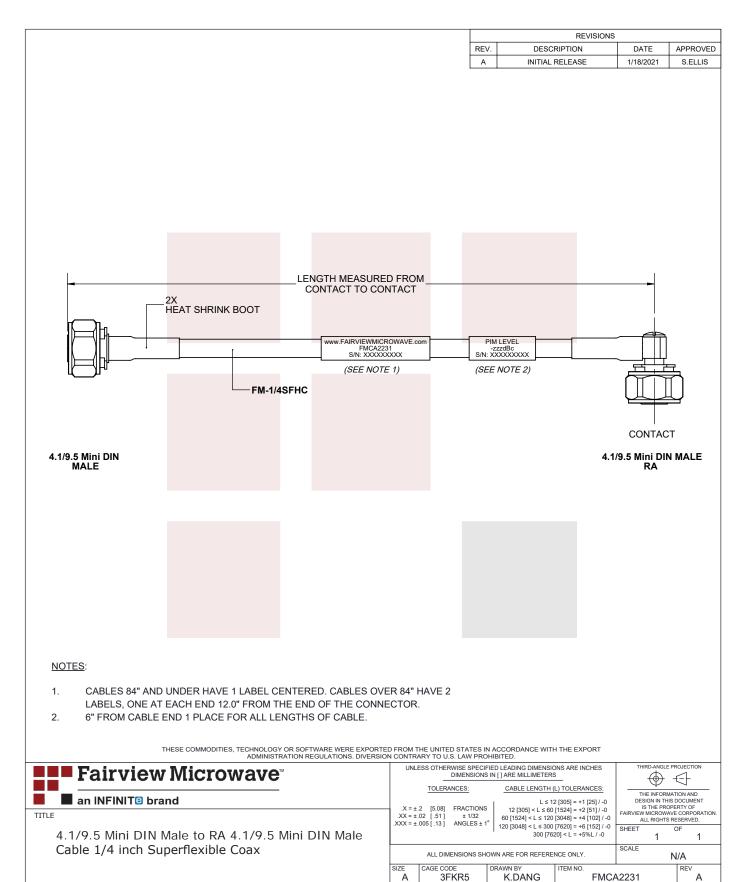
Click the following link to obtain additional part information: 4.1/9.5 Mini DIN Male to RA 4.1/9.5 Mini DIN Male Cable 1/4 inch Superflexible Coax FMCA2231

URL: https://www.fairviewmicrowave.com/4.1-9.5-male-4.1-9.5-male-pe-1-4-sfhc-cable-assembly-FMCA2231-p.aspx









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