

FMCA2272-24 DATA SHEET

Low PIM RA 2.2-5 Male to 2.2-5 Female Cable 1/4 inch Superflexible Coax in 24 Inch

The RA 2.2-5 male to 2.2-5 female 24 inch cable using 1/4 inch superflexible coax, part number FMCA2272-24, from Fairview Microwave is in-stock and ships same day. This Fairview 2.2-5 to 2.2-5 cable assembly has a male to female 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. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -150 dBc. The FMCA2272-24 2.2-5 male to 2.2-5 female cable assembly operates to 6 GHz. The right angle 2.2-5 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	U	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/n	n]
Inductance		0.059 [0.19]		uH/ft [uH/r	n]
DC Resistance Inner Cor	nductor	3.2 [10.5]		Ω/1000ft [Ω/I	Km]
DC Resistance Outer Cor	nductor	2.53 [8.3]		Ω/1000ft [Ω/l	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.)	0.28	0.3	0.32	0.36	0.46	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* Diameter 24 in [609.6 mm] 0.69 in [17.53 mm]



Configuration:

- 2.2-5 Male Right Angle
- 2.2-5 Female
- 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
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Low PIM Applications and PIM Testing

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Cable

Cable Type 1/4" Superflexible Impedance 50 Ohms

Impedance 50 Oh Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type PE (F) Number of Shields 1

Shield Layer 1 Helically 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 2

Tensile Strength 79 lbs [35.83 Kg]

Connectors

Description	Connector 1		Connecto	r 2	
Туре	2.2-5 Male	e	2.2-5 Female		
Specification	2.2-5		2.2-5		
Impedance	50 Ohms	50 Ohms		S	
Contact Material & Plating	Brass, Silve	er			
Dielectric Type	PTFE		PTFE		
Outer Cond Material & Plating			Bronze, Sil	ver	
Body Material & Plating	Brass, Tri-Metal		Brass, Tri-Metal		
Coupling Nut Material & Pla	ating 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:

Example: FMCA2272-12 = 12 inches long cable

FMCA2272-100cm = 100 cm long cable



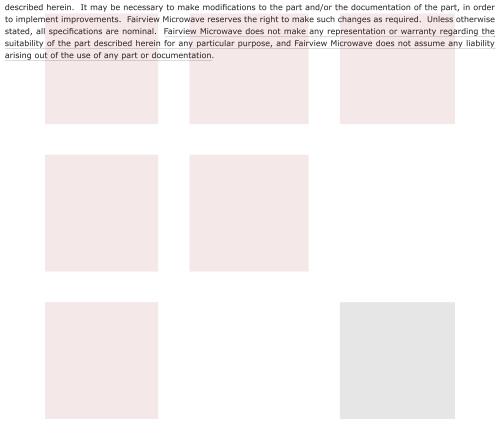


Low PIM RA 2.2-5 Male to 2.2-5 Female Cable 1/4 inch Superflexible Coax in 24 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Low PIM RA 2.2-5 Male to 2.2-5 Female Cable 1/4 inch Superflexible Coax in 24 Inch FMCA2272-24

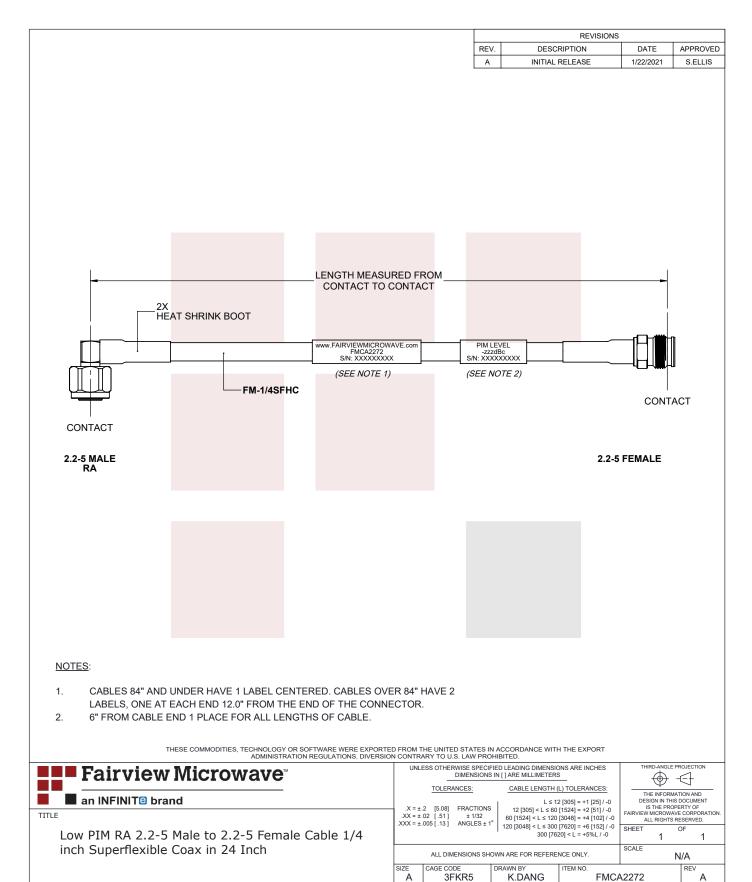
URL: https://www.fairviewmicrowave.com/low-pim-ra-2.2-5-male-2.2-5-female-cable-fm-1-4-sfhc-coax-fmca2272-24-p. aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part









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