

FMCA2272-100CM DATA SHEET

Low PIM RA 2.2-5 Male to 2.2-5 Female Cable 1/4 inch Superflexible Coax in 100 Cm

The RA 2.2-5 male to 2.2-5 female 100 cm cable using 1/4 inch superflexible coax, part number FMCA2272-100CM, 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 FMCA2272-100CM 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

Min	Т	ур	Max	U	Inits
DC			6		GHz
			1.5:1		
	8	32			%
120					dB
			-150		dBc
	24.4	[80.05]	pF/fl	t [pF/m]
	0.059	[0.19]	uH/fl	t [uH/m]
ductor	3.2	[10.5]		Ω/100	0ft [Ω/Km]
nductor	2.53	8 [8.3]		Ω/100	0ft [Ω/Km]
			2,000	V	/rms
	DC	DC 8 120 24.4 0.059 nductor 3.2	DC 82 82 120 24.4 [80.05 0.059 [0.19 nductor 3.2 [10.5]	DC 6 DC 6 1.5:1 82 120 -150 24.4 [80.05] -150 0.059 [0.19] 0.059 [0.19] nductor 3.2 [10.5] nductor 2.53 [8.3]	DC 6 DC 6 1.5:1 82 120 -150 24.4 [80.05] pF/ft 0.059 [0.19] uH/ft nductor 3.2 [10.5] Ω/100 nductor 2.53 [8.3] Ω/100

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.3	0.33	0.37	0.43	0.6	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

39.37 in [100 cm] 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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com Fairview Microwave





Cable

Cable Type
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

Connectors

Description	Connector 1	Connector 2
Туре	2.2-5 Male	2.2-5 Female
Specification	2.2-5	2.2-5
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plati	ing	Bronze, Silver
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

1/4" Superflexible

Copper Clad Aluminum

0.303 in [7.7 mm]

0.5 in [12.7 mm]

79 lbs [35.83 Kg]

1 in [25.4 mm]

Helically Corrugated Copper Tube

50 Ohms Solid

PE (F) 1

PE, Black

20

Compliance Certifications (see product page for current document)

Plotted and Other Data

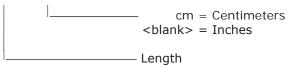
Notes:

How to Order

Part Number Configuration:



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Example: FMCA2272-12 = 12 inches long cable FMCA2272-100cm = 100 cm long cable

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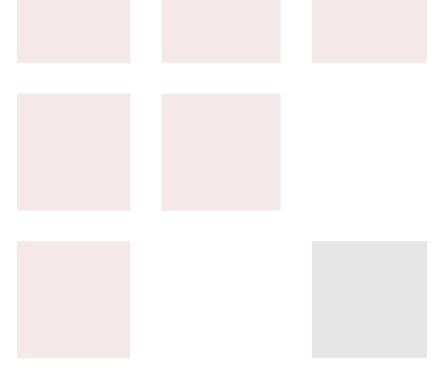


Low PIM RA 2.2-5 Male to 2.2-5 Female Cable 1/4 inch Superflexible Coax in 100 Cm from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 100 Cm FMCA2272-100CM

URL: https://www.fairviewmicrowave.com/low-pim-ra-2.2-5-male-2.2-5-female-cable-fm-1-4-sfhc-coax-fmca2272-100cm-p.aspx

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