

Low PIM N Male to RA N Male Cable 1/4 inch Superflexible Coax in 100 Cm

The type N male to RA type N male 100 cm cable using 1/4 inch superflexible coax, part number FMCA2254-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N 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. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -150 dBc. The FMCA2254-100CM type N male to type N male cable assembly operates to 6 GHz. The right angle type N 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	Un	its
Frequency Range	DC			6	Gl	Hz
VSWR				1.5:1		
Velocity of Propagation		8	32		%	6
RF Shielding	120				d	В
Passive Intermodulation				-150	dE	Зс

	24.4 [80.05]		pF/ft [pF/m]	
	0.059 [0.19]		uH/ft [uH/m]]
nductor	3.2 [10.5]		Ω/1000ft [Ω/Kn	n]
nductor	2.53 [8.3]		Ω/1000ft [Ω/Kn	n]
		2,000	Vrms	
	nductor nductor	0.059 [0.19] nductor 3.2 [10.5]	nductor 2.53 [8.3]	0.059 [0.19] uH/ft [uH/m] nductor 3.2 [10.5] Ω/1000ft [Ω/Kr nductor 2.53 [8.3] Ω/1000ft [Ω/Kr

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*

39.37 in [100 cm]

FMCA2254-100CM DATA SHEET



Configuration:

- N Male
- N 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
- 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





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 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	Connector 2		
Туре	N Male	N Male		
Specification	IEC 61169-16	IEC 61169-16		
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 & Pla	ting 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: FMCA2254 - xx

cm = Centimeters

Length

Example: FMCA2254-12 = 12 inches long cable

FMCA2254-100cm = 100 cm long cable





Low PIM N Male to RA N Male 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 N Male to RA N Male Cable 1/4 inch Superflexible Coax in 100 Cm FMCA2254-100CM

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

URL: https://www.fairviewmicrowave.com/low-pim-n-male-ra-n-male-cable-fm-1-4-sfhc-coax-fmca2254-100cm-p.aspx

described herein.	It may be necessar	y to make	modifications to	the part an	nd/or th	e documenta	tion of the part	, in order
to implement imp	rovements. Fairview	/ Microwave	e reserves the ri	ght to make	such c	hanges as red	quired. Unless	otherwise
stated, all specific	cations are nominal.	Fairview	Microwave does	not make a	ny repi	resentation or	warranty rega	rding the
suitability of the p	part described hereir	n for any p	articular purpos	e, and Fairv	iew Mid	crowave does	not assume ar	ny liability
arising out of the	use of any part or do	ocumentati	on.					



FMCA2254-100CM DATA SHEET

