

FMCA2275 DATA SHEET

Low PIM SMA Male to RA SMA Male Cable 1/4 inch Superflexible Coax

The SMA male to RA SMA male cable using 1/4 inch superflexible coax, part number FMCA2275, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA 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 FMCA2275 SMA male to SMA male cable assembly operates to 6 GHz. The right angle SMA 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

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Description	Min	Т	ур	Max	Units
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/m]
Inductance		0.059 [0.19]	uH/ft [uH/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		2,00	00 Vrms

Performance by Frequency

	-
B GHz	_
	07 dB/ft

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Diameter 0.36 in [9.14 mm]

Cable

Cable Type 1/4" Superflexible



Configuration:

- SMA Male
- SMA 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

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Impedance
Inner Conductor Type

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type PE (F)
Number of Shields 1

Shield Layer 1 Helically Corrugated Copper Tube

50 Ohms

Solid

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

Tensile Strength 79 lbs [35.83 Kg]

Connectors

Description	Connecto	or 1	Connector 2	
Туре	SMA Ma	ıle	SMA Male	Э
Specification	SMA		SMA	
Impedance	50 Ohm	าร	50 Ohms	5
Contact Material & Plating	Brass, Sil	ver	Brass, Silv	er
Dielectric Type	PTFE		PTFE	
Body Material & Plating	Brass, Tri-N	1etal	Brass, Tri-Me	etal
Coupling Nut Material & Pla	ting Brass, Tri-N	1etal	Brass, Tri-Me	etal

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: FMCA2275 - xx u

cm = Centimeters
<black</pre>

Length

Example: FMCA2275-12 = 12 inches long cable

FMCA2275-100cm = 100 cm long cable





Low PIM SMA Male to RA SMA Male Cable 1/4 inch Superflexible Coax 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 SMA Male to RA SMA Male Cable 1/4 inch Superflexible Coax FMCA2275

URL: https://www.fairviewmicrowave.com/low-pim-sma-male-ra-sma-male-cable-fm-1-4-sfhc-coax-fmca2275-p.aspx







