

Low PIM SMA Male to SMA Female Cable 1/4 inch Superflexible Coax in 100 Cm

The SMA male to SMA female 100 cm cable using 1/4 inch superflexible coax, part number FMCA2276-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA 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 FMCA2276-100CM SMA male to SMA female cable assembly operates to 6 GHz.

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	Jnits		
Frequency Range	DC			6		GHz		
VSWR				1.5:1				
Velocity of Propagation		82				%		
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 Con	3.2 [10.5]			Ω/1000ft [Ω/Km]				
DC Resistance Outer Conductor			2.53 [8.3]			Ω/1000ft [Ω/Km]		
Jacket Spark		2,0		2,000	١	/rms		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.25	0.28	0.32	0.38	0.55	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 insertion loss of 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 cm]
Diameter 0.35 in [8.89 mm]

Cable

Cable Type 1/4" Superflexible

FMCA2276-100CM DATA SHEET



Configuration:

- SMA Male
- SMA 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





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	Connect	or 1	Connector 2				
Туре	SMA Ma	ale	SMA Female				
Specification	SMA		SMA				
Impedance	50 Ohr	ns	50 Ohms				
Contact Material & Plating	Brass, Si	Brass, Silver					
Dielectric Type	PTFE		PTFE				
Outer Cond Material & Plat	ing		Beryllium Copper, Silver				
Body Material & Plating	Brass, Tri-	Metal	Brass, Tri-Metal				
Coupling Nut Material & Pla	iting 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: FMCA2276 - xx L

cm = Centimeters <blank> = Inches

----- Length

Example: FMCA2276-12 = 12 inches long cable

FMCA2276-100cm = 100 cm long cable





Low PIM SMA Male to SMA 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 SMA Male to SMA Female Cable 1/4 inch Superflexible Coax in 100 Cm FMCA2276-100CM

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

URL: https://www.fairviewmicrowave.com/low-pim-sma-male-sma-female-cable-pe1-4-sfhc-coax-fmca2276-100cm-p. aspx

to implem	ent improvements	. Fairview	Microw	ave reserve	s the righ	nt to mak	ke such	changes	as req	uired.	Unles	s oth	erwise
stated, all	specifications are	nominal.	Fairvie	w Microwav	e does n	ot make	any re	presentat	ion or	warra	nty re	gardi	ng the
suitability	of the part describ	oed herein	for any	/ particular	purpose,	and Fair	view M	1icrowave	does	not as	sume	any I	iability _.
arising ou	t of the use of any	part or do	cument	ation.									





