

FMCA2277 DATA SHEET

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

The SMA male to SMA female bulkhead cable using 1/4 inch superflexible coax, part number FMCA2277, 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 FMCA2277 SMA male to SMA female cable assembly operates to 6 GHz. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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	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/fl	t [pF/m]
Inductance		0.059	[0.19]	uH/fl	t [uH/m]
DC Resistance Inner Cor	ductor	3.2	[10.5]		Ω/100	0ft [Ω/Km]
DC Resistance Outer Cor	nductor	2.53	8 [8.3]		Ω/100	0ft [Ω/Km]
Jacket Spark				2,000	V	/rms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.016	0.026	0.039	0.057	0.107	dB/ft
	0.05	0.09	0.13	0.19	0.35	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2dB connector loss.

Mechanical Specifications

Cable Assembly Diameter

0.49 in [12.45 mm]



Configuration:

- SMA Male
- SMA Female Bulkhead
- 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 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 1/4" Superflexible 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

Connector 1	Connector 2	
SMA Male	SMA Female	
Bulkhead		
SMA	SMA	
50 Ohms	50 Ohms	
Brass, Silver		
PTFE	PTFE	
ng	Beryllium Copper, Silver	
Brass, Tri-Metal	Brass, Tri-Metal	
ting Brass, Tri-Metal		
	SMA Male SMA 50 Ohms Brass, Silver PTFE ng Brass, Tri-Metal	

Environmental Specifications

Temperature Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

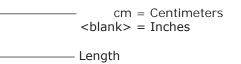
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2277 - xx



Example: FMCA2277-12 = 12 inches long cable FMCA2277-100cm = 100 cm long cable

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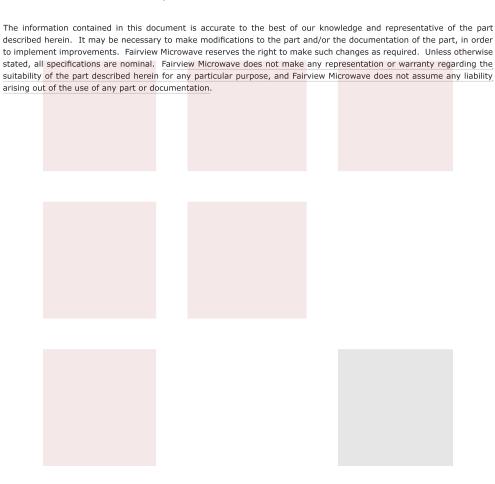




Low PIM SMA Male to SMA Female Bulkhead Cable 1/4 inch Superflexible Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Low PIM SMA Male to SMA Female Bulkhead Cable 1/4 inch Superflexible Coax FMCA2277

URL: https://www.fairviewmicrowave.com/low-pim-sma-male-sma-female-cable-fm-1-4-sfhc-coax-fmca2277-p.aspx



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