

FMCA2377-48 DATA SHEET

Low PIM 2.2-5 Female to N Female Cable 1/4 inch Superflexible Coax in 48 Inch

The 2.2-5 female to type N female 48 inch cable using 1/4 inch superflexible coax, part number FMCA2377-48, from Fairview Microwave is in-stock and ships same day. This Fairview 2.2-5 to type N cable assembly has a female 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 -160 dBc. The FMCA2377-48 2.2-5 female to type N 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	Тур Мах		Units		
Frequency Range	DC			6		GHz
VSWR				1.4:1		
Velocity of Propagation		8	82			%
RF Shielding	120					dB
Passive Intermodulation				-160		dBc
Capacitance			24.4 [80.05]		pF/ft [pF/m]	
Inductance		0.059 [0.19]		uH/ft [uH/m]		
DC Resistance Inner Conductor		3.2 [10.5]		Ω/1000ft [Ω/Km]		
DC Resistance Outer Conductor		2.53 [8.3]		Ω/1000ft [Ω/Km]		
Jacket Spark				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.)	0.24	0.28	0.32	0.4	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 insertion loss of 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm]
Diameter 0.62 in [15.75 mm]

Cable

Cable Type 1/4" Superflexible



Configuration:

- 2.2-5 Female
- N Female
- 1/4" Superflexible

Features:

- Max Frequency 6 GHz
- Low PIM: -160 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)
- PIM Testing

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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

Tensile Strength 79 lbs [35.83 Kg]

Connectors

Description	Connector 1	Connector 2			
Туре	2.2-5 Female	N Female			
Impedance	50 Ohms	50 Ohms			
Contact Material & Plating	Bronze, Silver	Bronze, Silver			
Dielectric Type	PTFE	PTFE			
Outer Cond Material & Plating	Bronze, Silver	Brass, Tri-Metal			
Body Material & Plating	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:

FMCA2377 - xx

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cm = Centimeters
<black> = Inches

Length

Example: FMCA2377-12 = 12 inches long cable

FMCA2377-100cm = 100 cm long cable

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Low PIM 2.2-5 Female to N Female Cable 1/4 inch Superflexible Coax in 48 Inch 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 2.2-5 Female to N Female Cable 1/4 inch Superflexible Coax in 48 Inch FMCA2377-48

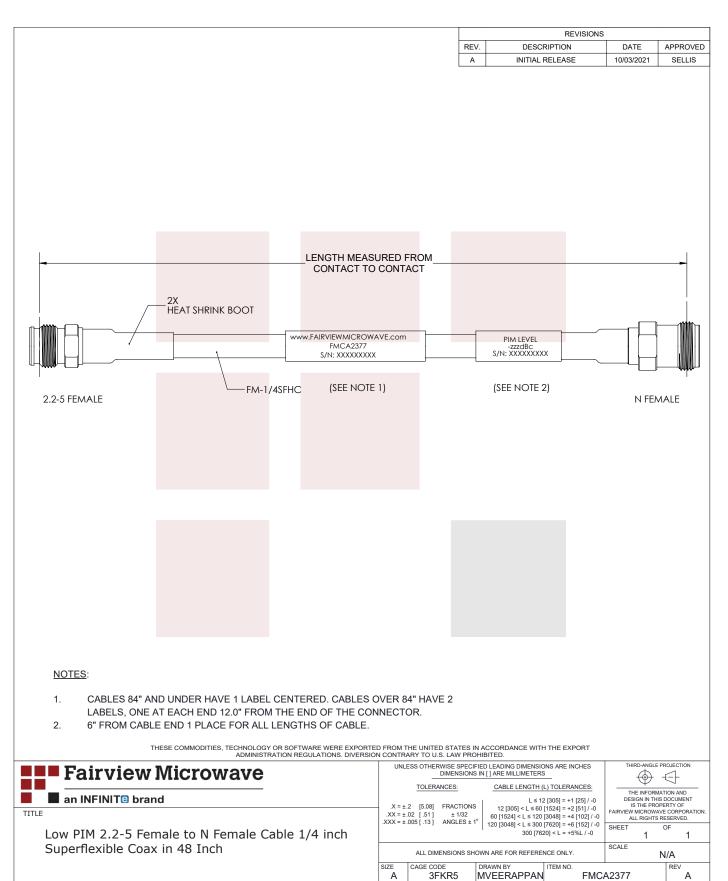
URL: https://www.fairviewmicrowave.com/low-pim-2.2-5-female-n-female-cable-fm-1-4-sfhc-coax-fmca2377-48-p.aspx

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

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