

# **FMCA2377 DATA SHEET**

## Low PIM 2.2-5 Female to N Female Cable 1/4 inch Superflexible Coax

The 2.2-5 female to type N female cable using 1/4 inch superflexible coax, part number FMCA2377, 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 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	т	ур	Мах	ι	Jnits
Frequency Range	DC			6		GHz
VSWR				1.4:1		
Velocity of Propagation		8	32			%
RF Shielding	120					dB
Passive Intermodulation				-160		dBc
Capacitance		24.4	[80.05]		pF/f	t [pF/m]
Inductance		0.059	0.19]		uH/f	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	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.)	0.01	0.02	0.03	0.05	0.1	dB/ft
	0.03	0.07	0.1	0.16	0.33	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

Cable Cable Type Impedance 0.62 in [15.75 mm]

1/4" Superflexible 50 Ohms



# **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

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





Inner Conductor TypeSolidInner Conductor Material and PlatingCopper ClacDielectric TypePE (F)Number of Shields1Shield Layer 1Helically CoJacket MaterialPE, BlackJacket Diameter0.303 in [7One Time Minimum Bend Radius0.5 in [12.7Repeated Minimum Bend Radius1 in [25.4 nTypical Flex Cycles20

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

Tensile Strength

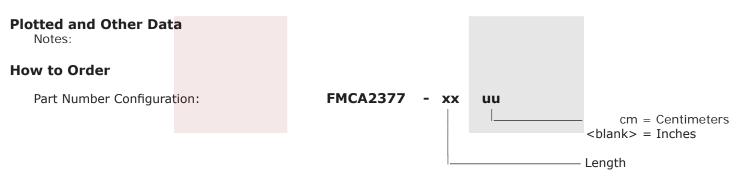
Description	Connector 1	Connector 2		
Туре	2.2-5 Female	N Female		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Bronze, Silver	Bronze, Silver		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plati	ng Bronze, Silver	Brass, Tri-Metal		
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal		

### **Environmental Specifications**

**Temperature** Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)



Example: FMCA2377-12 = 12 inches long cable FMCA2377-100cm = 100 cm long cable

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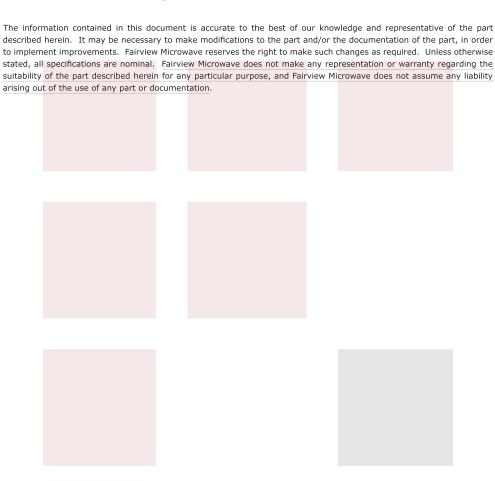




Low PIM 2.2-5 Female to N Female Cable 1/4 inch Superflexible Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Low PIM 2.2-5 Female to N Female Cable 1/4 inch Superflexible Coax FMCA2377

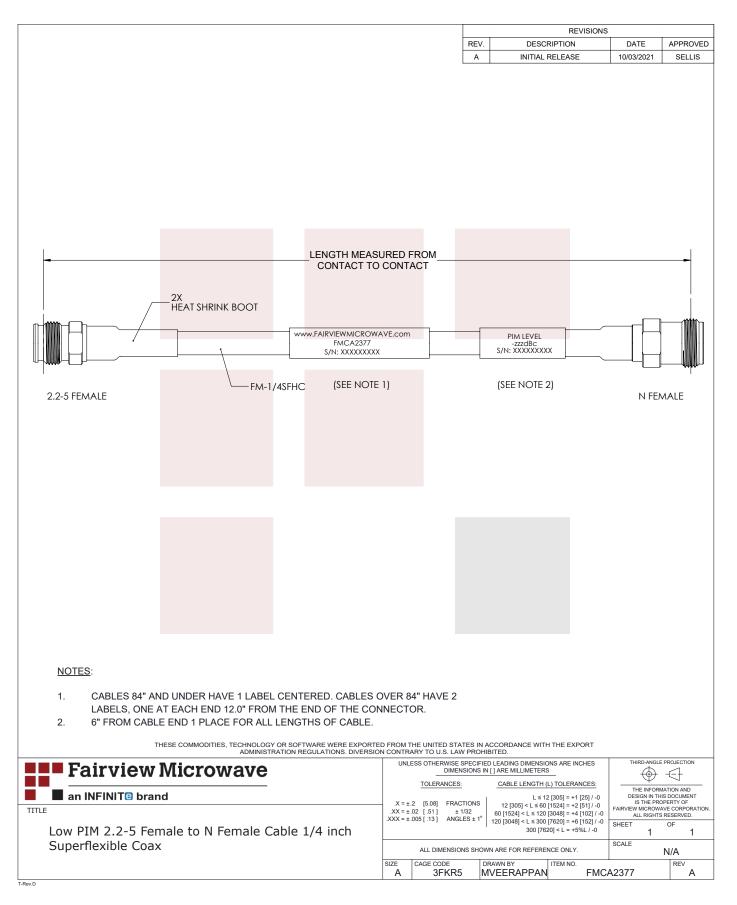
URL: https://www.fairviewmicrowave.com/low-pim-2.2-5-female-n-female-cable-fm-1-4-sfhc-coax-fmca2377-p.aspx



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