

Fire Rated Low PIM 4.3-10 Female to RA N Male Cable SPF-250 Coax Using Times Microwave Parts

The 4.3-10 female to RA type N male cable using SPF-250 coax, part number FMCA2022, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to type N cable assembly has a female to male gender configuration with 50 ohm corrugated SPF-250 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 FMCA2022 4.3-10 female to type N male cable assembly operates to 5.8 GHz. The right angle type N interface on the SPF-250 cable allows for easier connections in tight spaces. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

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	Units		
Frequency Range	DC			5.8	GHz		
VSWR				1.4:1			
Velocity of Propagation		8	83		%		
Passive Intermodulation		-1	165	-160	dBc		
Capacitance		24 [78.74]			pF/ft [pF/m]		
Inductance		0.054 [0.18]			uH/ft [uH/m]		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max	.) 0.041	0.051	0.062	0.103	0.167	dB/ft
	0.13	0.17	0.2	0.34	0.55	dB/m

Electrical Specification Notes:

PIM test results vary between cables

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length*

0 in [0 mm]

Cable Cable Type

SPF-250

FMCA2022 DATA SHEET



Configuration:

- 4.3-10 Female
- TC-SPP250-4310F-LP
- N Male Right Angle
- TC-SPO250-NM-RA-LP
- SPF-250

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- FRPE Jacket
- 100% Tested with PIM Test Results Marked on Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)
- Using Times Microwave Components

Applications:

- General Purpose
- Laboratory Use
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication
 Systems
- PIM Testing

Cable Diagram:

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 Fairview Microwave

an INFINIT^C brand



Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Outer Conductor Material and Plating
Jacket Material
Jacket Diameter

50 Ohms Solid Copper Clad Aluminum Foam PE 1 Helically Corrugated Copper Tube Copper FRPE, Black 0.303 in [7.7 mm]

One Time Minimum Bend Radius Bending Moment

1.25 in [31.75 mm] 0.5 lbs-ft [0.68 N-m]

Connectors

Description	Connector 1	Connector 2		
Туре	4.3-10 Female	N Male		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Phosphor Bronze, Sil	ver Brass, Silver		
Contact Plating Spec.	200 µin	200 µin		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plat	ing Brass, Tri-Metal			
Outer Cond Plating Spec.	80 µin			
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Body Plating Spec.	80 µin	80 µin		
Coupling Nut Material & Pla	iting	Brass, Tri-Metal		
Coupling Nut Plating Spec.		80 µin		
Torque		15.05 in-lbs 1.7 Nm		

Environmental Specifications

Temperature Operating Range Storage Range

-55 to +200 deg C -55 to +200 deg C

Environmental Specification Notes: CMR (Riser) Fire Rated

Compliance Certifications (see product page for current document)

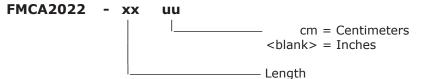
Plotted and Other Data

Notes:

• Values at 25°C, sea level.

How to Order

Part Number Configuration:



Example: FMCA2022-12 = 12 inches long cable FMCA2022-100cm = 100 cm long cable

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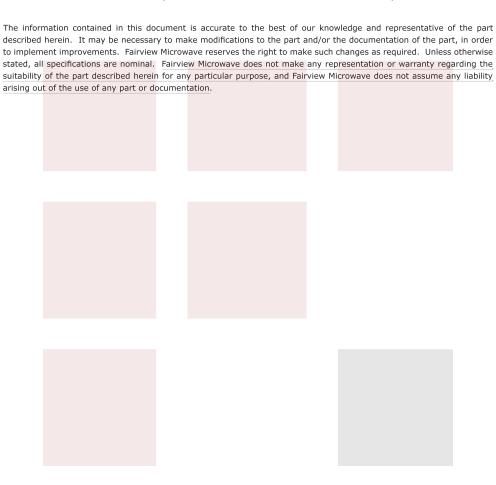




Fire Rated Low PIM 4.3-10 Female to RA N Male Cable SPF-250 Coax Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Fire Rated Low PIM 4.3-10 Female to RA N Male Cable SPF-250 Coax Using Times Microwave Parts FMCA2022

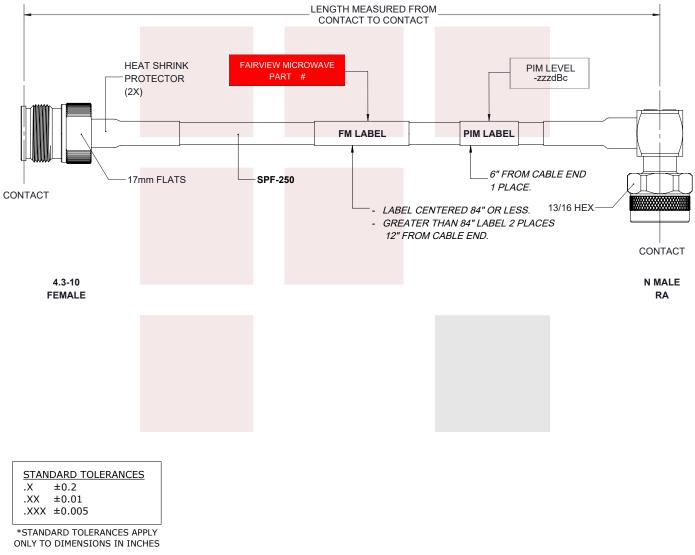
URL: https://www.fairviewmicrowave.com/low-pim-4.3-10-female-ra-n-male-cable-spf250-coax-fmca2022-p.aspx



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Fairview Microwave	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].						
an INFINIT [©] brand	DWG NO CAGE CODE						
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