

FMCA2021 DATA SHEET

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

The 4.3-10 female to type N male cable using SPF-250 coax, part number FMCA2021, 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 FMCA2021 4.3-10 female to type N male cable assembly operates to 5.8 GHz. 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

lax Units	
5.8 GHz	
.4:1	
%	
160 dBc	
pF/ft [pF/m]	
uH/ft [uH/m]	
24 [78.74] 0.054 [0.18]	

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 Impedance 50 Ohms





Configuration:

- 4.3-10 Female
- TC-SPP250-4310F-LP
- N Male
- TC-250-NM-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

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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

One Time Minimum Bend Radius Bending Moment

Solid

Copper Clad Aluminum

Foam PE

1

Helically Corrugated Copper Tube

Copper FRPE, Black

0.303 in [7.7 mm]

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

Connectors

Description	Connec	tor 1	Connecto	r 2	
Туре	4.3-10 F	emale	N Male		
Impedance	50 Oł	ıms	50 Ohm	S	
Mating Cycles			500		
Contact Material & Plating	Phosphor Bro	nze, Si	ilver Brass, Silver		
Contact Plating Spec.	200	uin	200 μin		
Dielectric Type	PTF	PTFE			
Outer Cond Material & Plat	ing Brass, Tr	i-Metal			
Outer Cond Plating Spec.	80 µ	in			
Body Material & Plating	Brass, Tri-Meta		Brass, Tri-M	letal	
Body Plating Spec.	80 µ	in	80 µin		
Coupling Nut Material & Pla	ating		Brass, Tri-M	letal	
Coupling Nut Plating Spec.			80 µin		
Torque	9.74 in-lbs 1.1 Nm				

Environmental Specifications

TemperatureOperating 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: FMCA2021-12 = 12 inches long cable

FMCA2021-100cm = 100 cm long cable

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Fire Rated Low PIM 4.3-10 Female to 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 N Male Cable SPF-250 Coax Using Times Microwave Parts FMCA2021

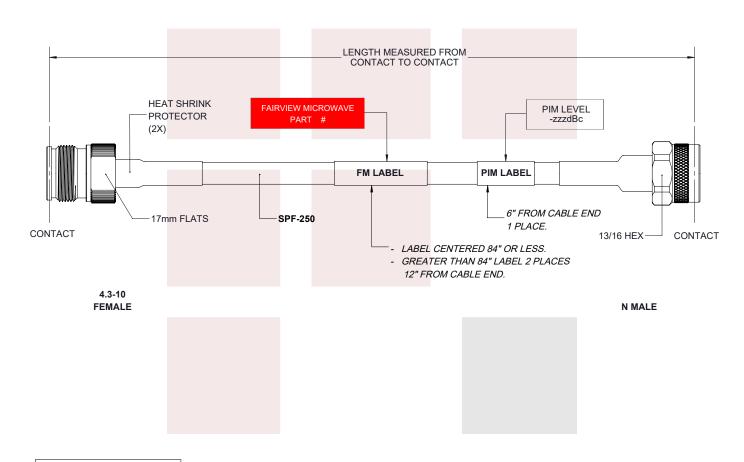
URL: https://www.fairviewmicrowave.com/low-pim-4.3-10-female-n-male-cable-spf250-coax-fmca2021-p.aspx



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STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].					
TITLE	DWG NO FMCA2021			CAGE CODE 3FKR5		
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