

FMCA2025 DATA SHEET

Fire Rated Low PIM RA 4.3-10 Male to 7/16 DIN Male Cable SPF-250 Coax Using Times Microwave Parts

The RA 4.3-10 male to 7/16 DIN male cable using SPF-250 coax, part number FMCA2025, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to 7/16 DIN cable assembly has a male 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 FMCA2025 4.3-10 male to 7/16 DIN male cable assembly operates to 5.8 GHz. The right angle 4.3-10 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	Max	Ur	nits
Frequency Range	DC			5.8	G	iHz
VSWR				1.4:1		
Velocity of Propagation		3	33		(%
Passive Intermodulation		-1	165	-160	d	Вс
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	k.) 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



Configuration:

- 4.3-10 Male Right Angle
- TC-250-4310M-RA-LP
- 7/16 DIN Male
- TC-250-716M-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





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

One Time Minimum Bend Radius

Bending Moment

50 Ohms 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]

Co	nn	ec	to	rs
-			·	

Description	Connector 1	Connector 2		
Туре	4.3-10 Male	7/16 DIN Male		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Brass, Silver	Brass, Silver		
Contact Plating Spec.	200 μin	200 μin		
Dielectric Type	PTFE	PTFE		
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Body Plating Spec.	80 µin	80 µin		
Coupling Nut Material & Pla	ting Brass, Nickel	Brass, Nickel		
Coupling Nut Plating Spec.	200 μin	80 µin		
Torque	15.05 in-lbs 1.7 N	lm 22.127 ft-lbs 30 Nm		
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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: FMCA2025-12 = 12 inches long cable

FMCA2025-100cm = 100 cm long cable

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Fire Rated Low PIM RA 4.3-10 Male to 7/16 DIN 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 RA 4.3-10 Male to 7/16 DIN Male Cable SPF-250 Coax Using Times Microwave Parts FMCA2025

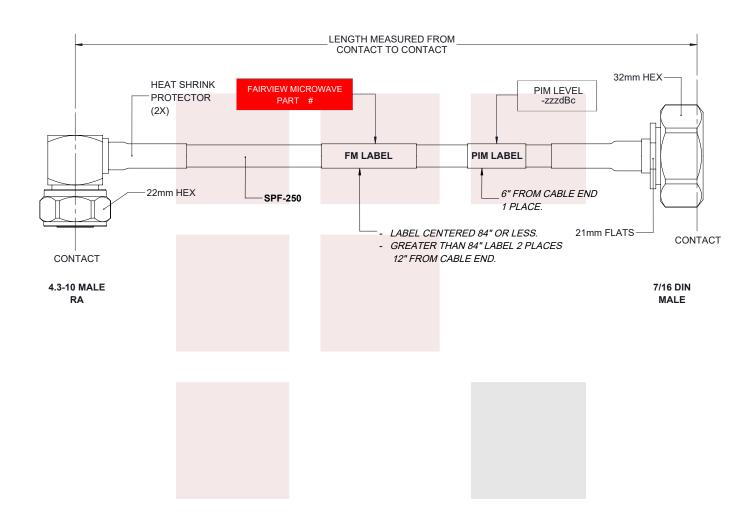
URL: https://www.fairviewmicrowave.com/low-pim-ra-4.3-10-male-7-16-din-male-cable-spf250-coax-fmca2025-p.aspx



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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.					ПМЕ.	
an INFINIT [©] brand	3. DIMENSIONS ARE IN INCHES [mm].						
Fire Rated Low PIM RA 4.3-10 Male to 7/16 DIN Male	DWG NO FMCA2025				CAGE CODE 3FKR5		
Cable SPF-250 Coax Using Times Microwave Parts	CAD FILE 06/05/19	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	