

FMCA2027 DATA SHEET

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

The 7/16 DIN male to type N male cable using SPF-250 coax, part number FMCA2027, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N 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 FMCA2027 7/16 DIN male 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

•						
Description	Min	Т	ур	Мах	U	Inits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		8	33			%
Passive Intermodulation		-1	.65	-160		dBc
Capacitance		24 [78.74]		pF/ft [pF/m]		
Inductance		0.054	[0.18]]	uH/fl	: [uH/m]

Performance b	formance by Freq <mark>uency</mark>						
Description	F1	F2	F3	F4	F5	Units	
Frequency	0.45	0.7	1	2.5	5.8	GHz	
Insertion Loss (Max	x.) 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 Impedance

SPF-250 50 Ohms



Configuration:

- 7/16 DIN Male
- TC-250-716M-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 www.fairviewmicrowave.com sales@fairviewmicrowave.com





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 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	7/16 DIN Male	N Male
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material & Plating	Brass, Silver	Brass, Silver
Contact Plating Spec.	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Meta	Brass, Tri-Metal
Body Plating Spec.	80 μin	80 µin
Coupling Nut Material & Pla	ting Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Spec.	80 µin	80 µin
Torque	22.127 ft-lbs 30	Nm 9.74 in-lbs 1.1 Nm

Environmental Specifications

Temperature Operating Range Storage Range		-55 to +200 deg C -55 to +200 deg C				
Environmental Specific 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:

FMCA2027 - xx

cm = Centimeters <blank> = Inches

— Length

Example: FMCA2027-12 = 12 inches long cable FMCA2027-100cm = 100 cm long cable

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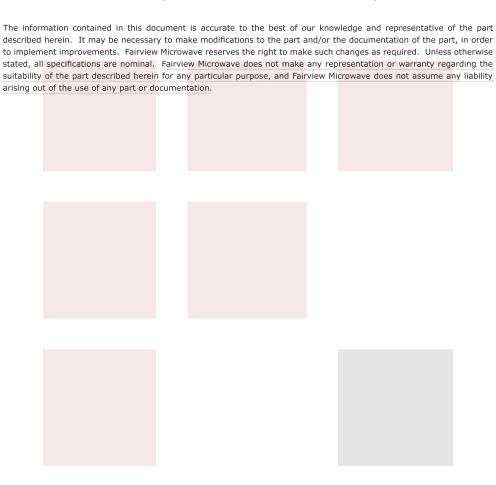




Fire Rated Low PIM 7/16 DIN Male to N Male Cable SPF-250 Coax Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Fire Rated Low PIM 7/16 DIN Male to N Male Cable SPF-250 Coax Using Times Microwave Parts FMCA2027

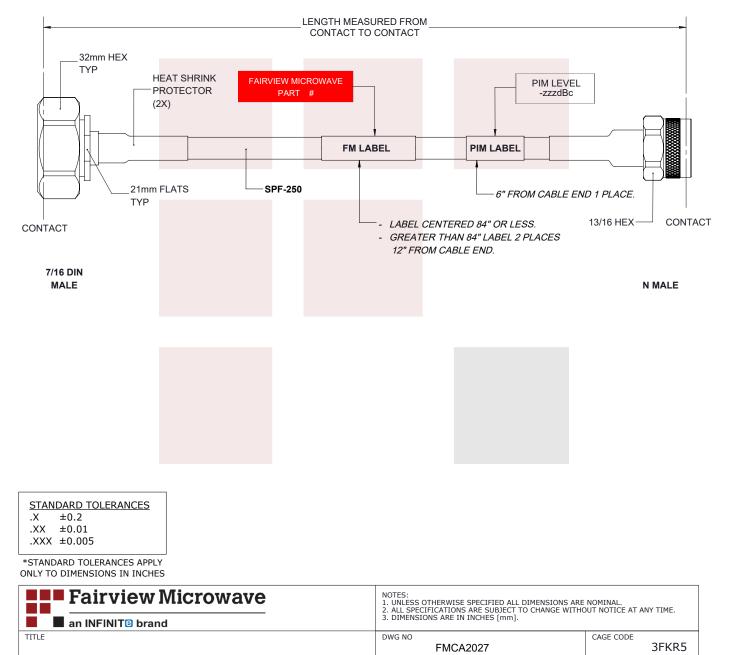
URL: https://www.fairviewmicrowave.com/low-pim-7-16-din-male-n-male-cable-spf250-coax-fmca2027-p.aspx



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 CAD FILE
 06/05/19

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 SCALE N/A
 SIZE A

 7361

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