



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

The 7/16 DIN male to 7/16 DIN female 7 inch cable using SPF-250 coax, part number FMCA2549, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to 7/16 DIN cable assembly has a male to female 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 FMCA2549 7/16 DIN male to 7/16 DIN female cable assembly operates to 5.8 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	Max	ι	Jnits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		8	33			%
Passive Intermodulation				-160		dBc
Capacitance		24 [78.74]		pF/f	t [pF/m]
Inductance		0.054 [0.18]			uH/ft [uH/m]	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.03	0.043	0.062	0.103	0.167	dB

Electrical Specification Notes:

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* 7 in [177.8 mm] Weight 0.398 lbs [180.53 g]

Cable

Cable Type SPF-250
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Aluminum
Dielectric Type Foam PE

Number of Shields Outer Conductor Material and Plating Jacket Material 1 Copper FRPE, Black



Configuration:

- 7/16 DIN Male
- 7/16 DIN Female
- 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
- CMR Riser Rated Applications
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

Cable Diagram:

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Jacket Diameter 0.303 in [7.7 mm]

One Time Minimum Bend Radius 1.25 in [31.75 mm]
Bending Moment 0.5 lbs-ft [0.68 N-m]

Connectors

Description Connector 1		Connector 2		
Туре	7/16 DIN Male	7/16 DIN Female		
mpedance 50 Ohms		50 Ohms		
Contact Material & Plating Brass, Silver		Phosphor Bronze, Silver		
Contact Plating Spec.	196 µin	196 µin		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plating		Brass, Tri-Metal		
Outer Cond Plating Spec.		118 µin		
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Body Plating Spec.	118 µin	118 µin		
Coupling Nut Material & Pla	iting Brass, Nickel			
Coupling Nut Plating Spec.	118 µin			

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

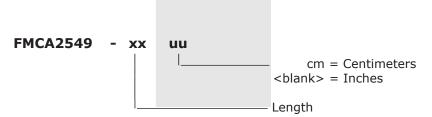
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:



Example: FMCA2549-12 = 12 inches long cable

FMCA2549-100cm = 100 cm long cable

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Fire Rated Low PIM 7/16 DIN Male to 7/16 DIN Female Cable SPF-250 Coax in 7 Inch 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 7/16 DIN Female Cable SPF-250 Coax in 7 Inch Using Times Microwave Parts FMCA2549

URL: https://www.fairviewmicrowave.com/fire-rated-low-pim-7-16-din-male-to-7-16-din-female-cable-spf-250-coax-in-7-inch-using-times-microwave-parts-fmca2549-p.aspx



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