

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

The 7/16 DIN male to 7/16 DIN female 200 cm cable using SPF-250 coax, part number FMCA2549-200CM, 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 FMCA2549-200CM 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	U	Inits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		8	33			%
Passive Intermodulation				-160		dBc
Capacitance		24 [78.74]		pF/fl	[pF/m]
Inductance		0.054	[0.18]		uH/fl	[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.)	0.3	0.43	0.61	1	1.58	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 78.74 in [200 cm]
Weight 0.398 lbs [180.53

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields

0.398 lbs [180.53 g]

SPF-250 50 Ohms Solid Copper Clad Aluminum Foam PE 1

FMCA2549-200CM DATA SHEET



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

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Outer Conductor Material and Plating

Jacket Material

Jacket Diameter

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	7/16 DIN Female	
Impedance	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 & Plati	ing	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	nting Brass, Nickel		
Coupling Nut Plating Spec.	118 µin		

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

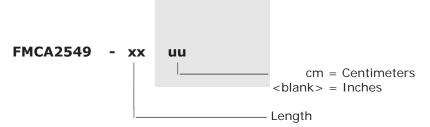
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:



Example: FMCA2549-12 = 12 inches long cable

FMCA2549-100cm = 100 cm long cable





Fire Rated Low PIM 7/16 DIN Male to 7/16 DIN Female 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 7/16 DIN Female Cable SPF-250 Coax Using Times Microwave Parts FMCA2549-200CM

URL: https://www.fairviewmicrowave.com/fire-rated-low-pim-7-16-din-male-to-7-16-din-female-cable-spf-250-coax-us-ing-times-microwave-parts-fmca2549-200cm-p.aspx







