

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

The type N male to type N female bulkhead 100 cm cable using SPF-250 coax, part number FMCA2547-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N 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 FMCA2547-100CM type N male to type N female cable assembly operates to 5.8 GHz. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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	T	ур	Max	U	Inits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		8	3			%
Passive Intermodulation				-160		dBc

Capacitance	24 [78.74]	pF/ft [pF/m]
Inductance	0.054 [0.18]	uH/ft [uH/m]

Performance by Frequency

Description	F1 F2 F3		F3	F4	F5	Units	
Frequency	0.25	0.5	1	2.5	5.8	GHz	
Insertion Loss (Typ.)	0.2	0.29	0.41	0.66	1.03	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* 39.37 in [100 cm]
Weight 0.359 lbs [162.84 g]

Cable

Cable Type SPF-250 Impedance 50 Ohms Inner Conductor Type Solid

FMCA2547-100CM DATA SHEET



Configuration:

- N Male
- N Female Bulkhead
- 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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Inner Conductor Material and Plating

Dielectric Type

Number of Shields

Outer Conductor Material and Plating

Jacket Material

Jacket Diameter

Copper Clad Aluminum

Foam PE

1

Copper FRPE, Black

FRPE, DIAUK 0.202 in [7.7

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	N Male	N Female				
Mount Method		Bulkhead				
Impedance	50 Ohms	50 Ohms				
Contact Material & Plating	Phosphor Bronze, Sil	lver 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	iting Brass, Tri-Metal					
Coupling Nut Plating Spec.	118 µin					
Torque	7.08 in-lbs 0.8 Ni	m 6 in-lbs 0.68 Nm				

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: FMCA2547-12 = 12 inches long cable

FMCA2547-100cm = 100 cm long cable





Fire Rated Low PIM N Male to N Female Bulkhead 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 N Male to N Female Bulkhead Cable SPF-250 Coax Using Times Microwave Parts FMCA2547-100CM

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

URL: https://www.fairviewmicrowave.com/fire-rated-low-pim-n-male-to-n-female-bulkhead-cable-spf-250-coax-using-times-microwave-parts-fmca2547-100cm-p.aspx

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