



## Fire Rated Low PIM N Male to N Female Bulkhead Cable SPF-250 Coax in 7 Inch Using Times **Microwave Parts**

The type N male to type N female bulkhead 7 inch cable using SPF-250 coax, part number FMCA2547, 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 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	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/ft [pF/m]		
Inductance		0.054 [0.18] u		uH/f	t [uH/m]	

Performance	bv	Frea	uencv

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 0.359 lbs [162.84 g]

#### Cable

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

Inner Conductor Material and Plating Copper Clad Aluminum

Foam PE

Dielectric Type



## **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 Flex-
- 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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Number of Shields 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	N Male	N Female		
Mount Method		Bulkhead		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Phosphor Bronze, Si	ilver Phosphor Bronze, Silver		
Contact Plating Spec.	196 µin	196 µin		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plat	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	ting Brass, Tri-Metal			
Coupling Nut Plating Spec.	118 µin			
Torque	7.08 in-lbs 0.8 N	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

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Fire Rated Low PIM N Male to N Female Bulkhead 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 N Male to N Female Bulkhead Cable SPF-250 Coax in 7 Inch Using Times Microwave Parts FMCA2547

URL: https://www.fairviewmicrowave.com/fire-rated-low-pim-n-male-to-n-female-bulkhead-cable-spf-250-coax-in-7-inch-using-times-microwave-parts-fmca2547-p.aspx







