



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

The RA 7/16 DIN male to type N female 7 inch cable using SPF-250 coax, part number FMCA2543, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN 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 FMCA2543 7/16 DIN male to type N female cable assembly operates to 5.8 GHz. The right angle 7/16 DIN interface on the SPF-250 cable allows for easier connections in tight spaces.

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		3	33			%
Passive Intermodulation				-160		dBc
Capacitance		24 [7	78.74]		pF/f	t [pF/m]
Inductance		0.054 [0.18] uH/ft [uH/			t [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 0.344 lbs [156.04 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 Number of Shields Outer Conductor Material and Plating Copper



## **Configuration:**

- 7/16 DIN Male Right Angle
- N 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 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
- Multi-Carrier Communication Systems
- PIM Testing

# Cable Diagram:

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Jacket Material Jacket Diameter 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 Connecto		or 1	Connector 2	
Туре	7/16 DIN	Male	N Female	
Impedance	50 Ohm	าร	50 Ohms	
Mating Cycles			500	
Contact Material & Plating	Brass, Sil	ver	Brass, Silver	
Contact Plating Spec.	196 µir	ı	200 µin	
Dielectric Type	PTFE		PTFE	
Outer Cond Material & Plating		Brass, Tri-Metal		
Outer Cond Plating Spec.			100 μin	
Body Material & Plating	Brass, Nic	ckel	Brass, Tri-Metal	
Body Plating Spec.	118 µin		100 μin	
Coupling Nut Material & Plating Brass, Nickel				
Coupling Nut Plating Spec.	118 µin			
Torque			9.74 in-lbs 1.1 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:

FMCA2543 - xx

uu

cm = Centimeters
<black</pre>

- Length

Example: FMCA2543-12 = 12 inches long cable

FMCA2543-100cm = 100 cm long cable





Fire Rated Low PIM RA 7/16 DIN Male to N 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.

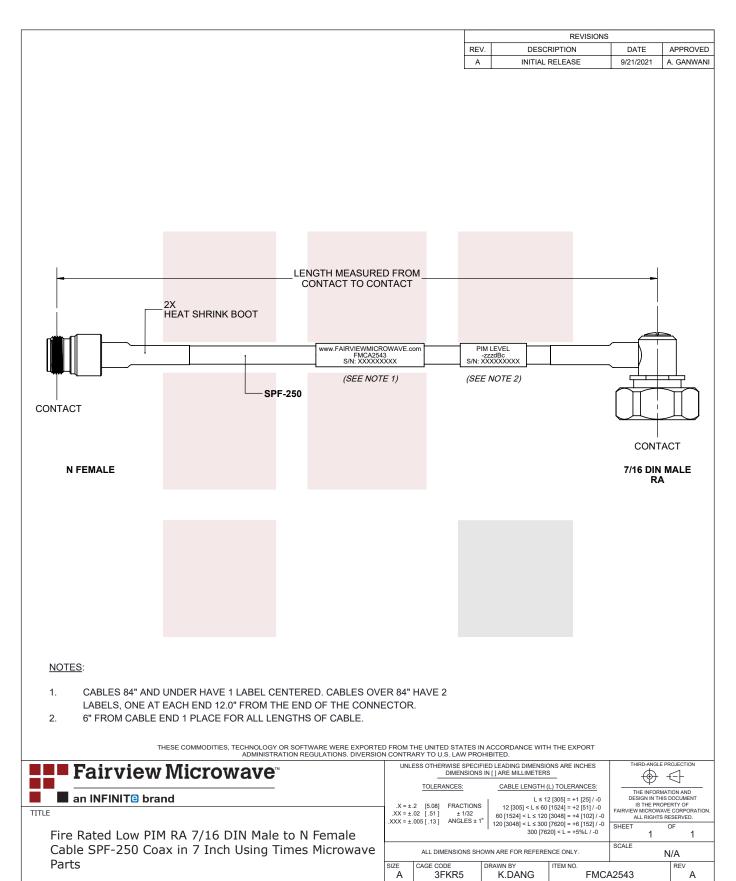
Click the following link to obtain additional part information: Fire Rated Low PIM RA 7/16 DIN Male to N Female Cable SPF-250 Coax in 7 Inch Using Times Microwave Parts FMCA2543

URL: https://www.fairviewmicrowave.com/fire-rated-low-pim-ra-7-16-din-male-to-n-female-cable-spf-250-coax-in-7-inch-using-times-microwave-parts-fmca2543-p.aspx









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