

FMCA2540-24 DATA SHEET



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

The 7/16 DIN male to type N female 24 inch cable using SPF-250 coax, part number FMCA2540-24, 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 FMCA2540-24 7/16 DIN male to type N 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.)	0.16	0.23	0.33	0.53	0.82	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*
 24 in [6

 Weight
 0.4485

Cable

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

24 in [609.6 mm] 0.4485 lbs [203.44 g]

SPF-250 50 Ohms Solid Copper Clad Aluminum Foam PE

Configuration:

- 7/16 DIN Male
- 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 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		or 1	Connector 2		
Туре	e 7/16 DIN Male		N Female		
Impedance	50 Ohr	ns	50 Ohms		
Mating Cycles			500		
Contact Material & Plating	Brass, Si	lver	Brass, Silver		
Contact Plating Spec.	196 µi	n	200 µin		
Dielectric Type	PTFE		PTFE		
Outer Cond Material & Plati	ng		Brass, Tri-Metal		
Outer Cond Plating Spec.			100 µin		
Body Material & Plating	Brass, Tri-	Metal	Brass, Tri-Metal		
Body Plating Spec.	118 µi	n	100 µin		
Coupling Nut Material & Pla	ing Brass, Nickel				
Coupling Nut Plating Spec.	118 µi	n			
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:

Part Number Configuration:

FMCA2540 - xx uu | cm = Centimeters | cblank > = Inches | Length

Example: FMCA2540-12 = 12 inches long cable

FMCA2540-100cm = 100 cm long cable





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

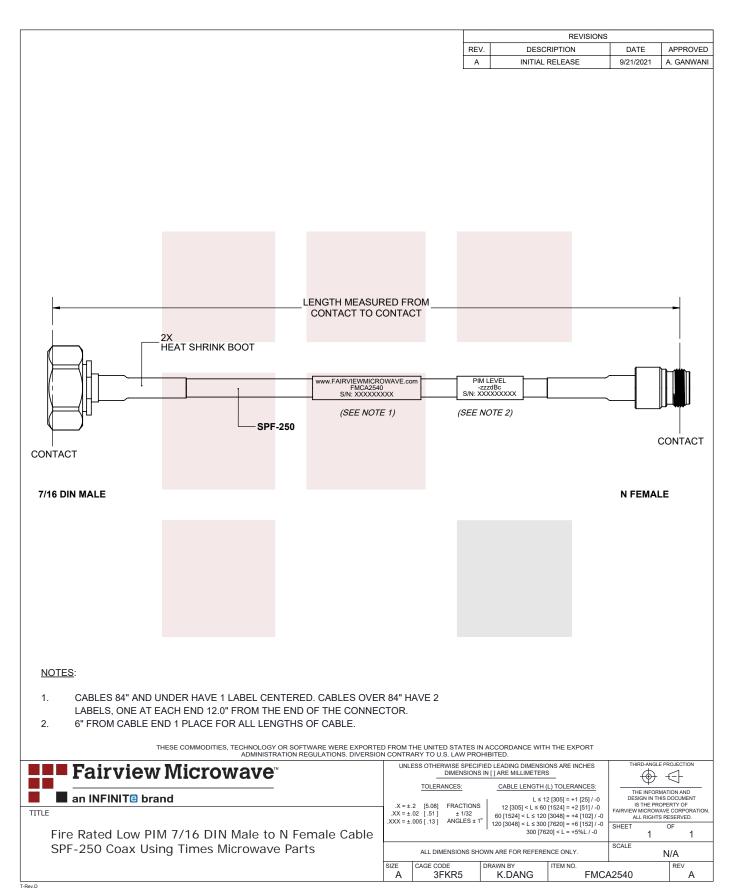
Click the following link to obtain additional part information: Fire Rated Low PIM 7/16 DIN Male to N Female Cable SPF-250 Coax Using Times Microwave Parts FMCA2540-24

URL: https://www.fairviewmicrowave.com/fire-rated-low-pim-7-16-din-male-to-n-female-cable-spf-250-coax-using-times-microwave-parts-fmca2540-24-p.aspx









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