

FMCA2545 DATA SHEET

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

The 7/16 DIN female to type N male 7 inch cable using SPF-250 coax, part number FMCA2545, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a female to male 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 FMCA2545 7/16 DIN female to type N male 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	Units
quency Range	GHz
WR	
ocity of Propagation	%
sive Intermodulation	dBc
pacitance	pF/ft [pF/m]
uctance	uH/ft [uH/m]
pacitance	pF/ft [pl

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 0.3085 lbs [139.93 g]

Cable

Cable Type SPF-250
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Aluminum
Dielectric Type Foam PE

Number of Shields Outer Conductor Material and Plating Jacket Material 1 Copper FRPE, Black



Configuration:

- 7/16 DIN Female
- N Male
- 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

Cable Diagram:

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Jacket Diameter 0.303 in [7.7 mm]

One Time Minimum Bend Radius 1.25 in [31.75 mm] Bending Moment 0.5 lbs-ft [0.68 N-m]

Connectors

Description	Connector 1	Connector 2	
Туре	7/16 DIN Female	N Male	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Phosphor Bronze, Silve	er Phosphor Bronze, Silver	
Contact Plating Spec.	196 µin	196 µin	
Dielectric Type	PTFE	PTFE	
Outer Cond Material & Plating	g 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 & Plating		Brass, Tri-Metal	
Coupling Nut Plating Spec.		118 µin	
Torque		7.08 in-lbs 0.8 Nm	

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

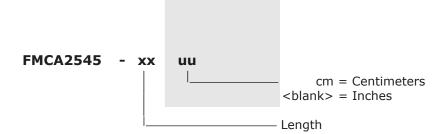
Compliance Certifications (see product page for current document)



Notes:

How to Order

Part Number Configuration:



Example: FMCA2545-12 = 12 inches long cable

FMCA2545-100cm = 100 cm long cable

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

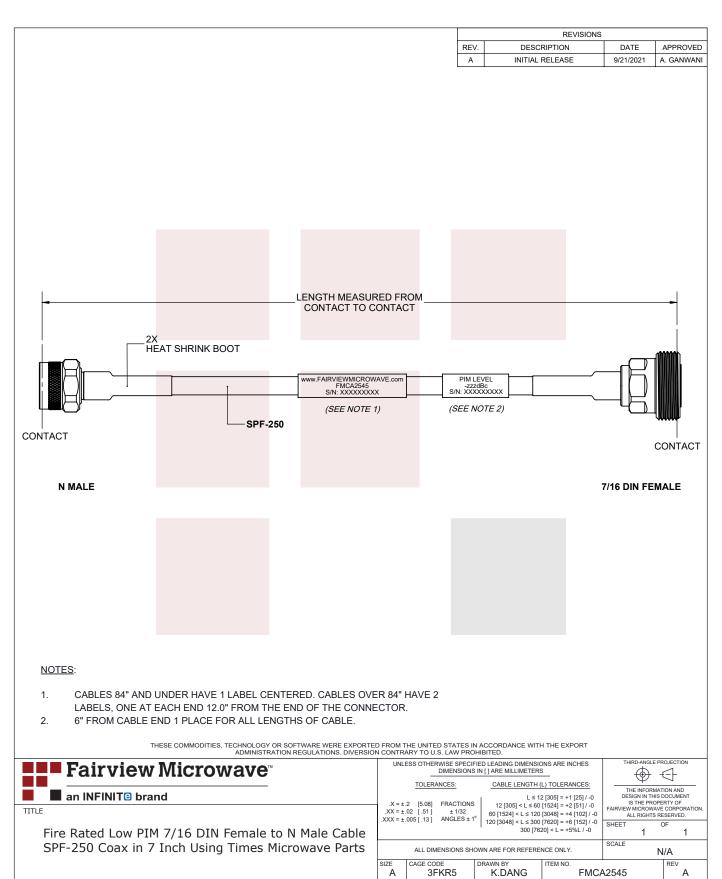
Click the following link to obtain additional part information: Fire Rated Low PIM 7/16 DIN Female to N Male Cable SPF-250 Coax in 7 Inch Using Times Microwave Parts FMCA2545

URL: https://www.fairviewmicrowave.com/fire-rated-low-pim-7-16-din-female-to-n-male-cable-spf-250-coax-in-7-inch-using-times-microwave-parts-fmca2545-p.aspx









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