

FMCA2561 DATA SHEET

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

The 7/16 DIN female to type N male 7 inch cable using SPO-250 coax, part number FMCA2561, 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 SPO-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 FMCA2561 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	Min	Т	ур	Max	U	Inits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		3	33			%
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	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 0.3035 lbs [137.67 g]

Cable

Cable Type SPO-250
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Cl
Dielectric Type Foam PE

Number of Shields Outer Conductor Material and Plating

Jacket Material

Solid Copper Clad Aluminum

Foam PE 1

Copper

PE, Black



Configuration:

- 7/16 DIN Female
- N Male
- SPO-250

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE 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
- Outdoor Rated Applications
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

Cable Diagram:

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

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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, Silv	ver Phosphor Bronze, Silver		
Contact Plating Spec.	196 µin	196 µin		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Platin	ng 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)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2561 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA2561-12 = 12 inches long cable

FMCA2561-100cm = 100 cm long cable

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Outdoor Rated Low PIM 7/16 DIN Female to N Male Cable SPO-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.

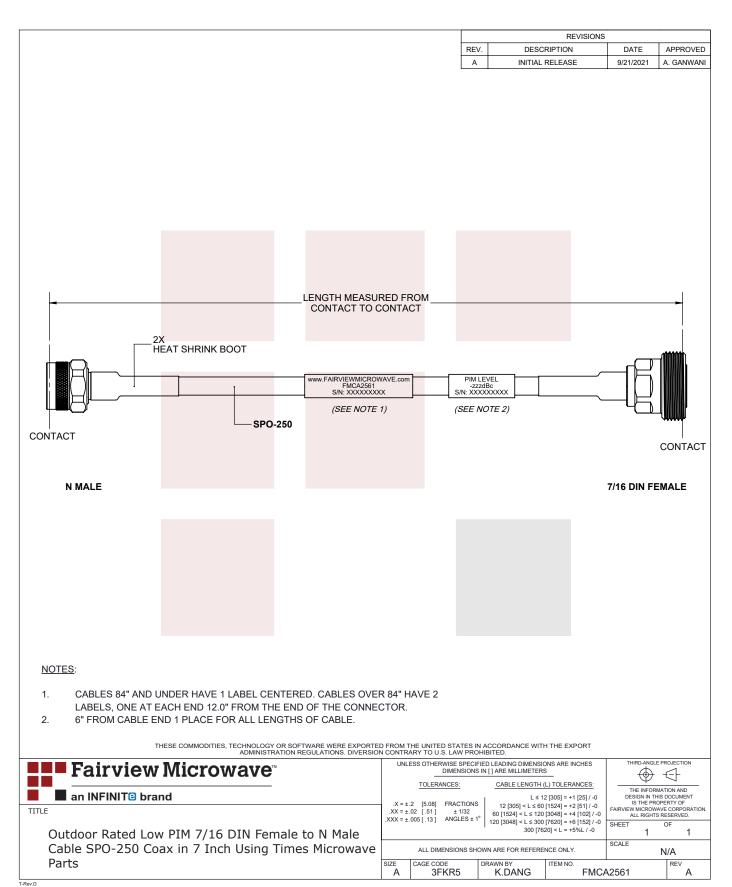
Click the following link to obtain additional part information: Outdoor Rated Low PIM 7/16 DIN Female to N Male Cable SPO-250 Coax in 7 Inch Using Times Microwave Parts FMCA2561

URL: https://www.fairviewmicrowave.com/outdoor-rated-low-pim-7-16-din-female-to-n-male-cable-spo-250-coax-in-7-inch-using-times-microwave-parts-fmca2561-p.aspx









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