Fairview Microwave

# FMCA2566 DATA SHEET

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

The RA 7/16 DIN male to 7/16 DIN female 7 inch cable using SPO-250 coax, part number FMCA2566, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to 7/16 DIN cable assembly has a male to female 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 FMCA2566 7/16 DIN male to 7/16 DIN female cable assembly operates to 5.8 GHz. The right angle 7/16 DIN interface on the SPO-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		8	33			%
Passive Intermodulation				-160		dBc
Capacitance		24 [	78.74		pF/f	t [pF/m]
Inductance		0.054	[0.18	3]	uH/f	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\* Weight

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Outer Conductor Material and Plating 7 in [177.8 mm] 0.2885 lbs [130.86 g]

SPO-250 50 Ohms Solid Copper Clad Aluminum Foam PE 1 Copper



# **Configuration:**

- 7/16 DIN Male Right Angle
- 7/16 DIN Female
- 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 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com Fairview Microwave

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Jacket Material	PE, Black
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 Male	7/16 DIN Female	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Brass, Silver	Phosphor Bronze, Silver	
Contact Plating Spec.	196 µin	196 µin	
Dielectric Type	PTFE	PTFE	
Outer Cond Material & Plati	ing	Brass, Tri-Metal	
Outer Cond Plating Spec.		118 µin	
Body Material & Plating	Brass, Nickel	Brass, Tri-Metal	
Body Plating Spec.	118 µin	118 µin	
Coupling Nut Material & Pla	iting Brass, Nickel		
Coupling Nut Plating Spec.	118 µin		

### **Environmental Specifications**

**Temperature** Operating Range

-40 to +85 deg C

### **Compliance Certifications** (see product page for current document)

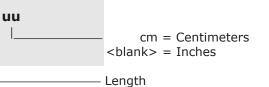
# Plotted and Other Data

Notes:

### **How to Order**

Part Number Configuration:

FMCA2566 - xx



Example: FMCA2566-12 = 12 inches long cable FMCA2566-100 cm = 100 cm long cable

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Outdoor Rated Low PIM RA 7/16 DIN Male to 7/16 DIN Female 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.

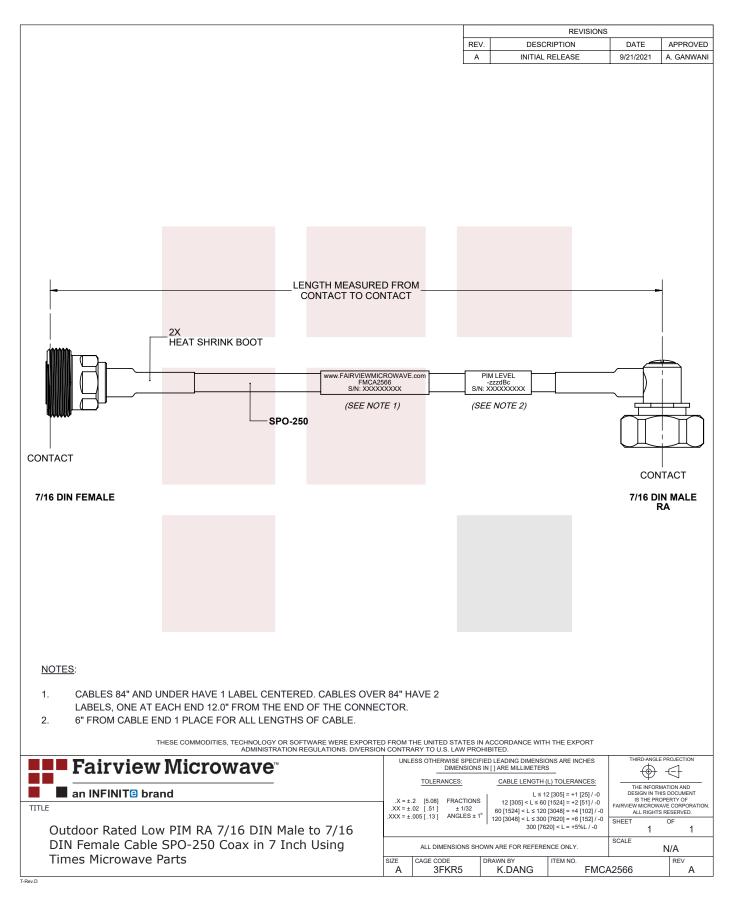
Click the following link to obtain additional part information: Outdoor Rated Low PIM RA 7/16 DIN Male to 7/16 DIN Female Cable SPO-250 Coax in 7 Inch Using Times Microwave Parts FMCA2566

URL: https://www.fairviewmicrowave.com/outdoor-rated-low-pim-ra-7-16-din-male-to-7-16-din-female-cable-spo-250-coax-in-7-inch-using-times-microwave-parts-fmca2566-p.aspx









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