

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

The RA 7/16 DIN male to 7/16 DIN female 12 inch cable using SPO-250 coax, part number FMCA2566-12, 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 FMCA2566-12 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	Typ	Max	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
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.)	0.13	0.19	0.27	0.42	0.65	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\* 12 in [304.8 mm]  
 Weight 0.2885 lbs [130.86 g]

#### Cable

Cable Type SPO-250  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Aluminum



### 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

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Dielectric Type	Foam PE
Number of Shields	1
Outer Conductor Material and Plating	Copper
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
Type	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 & Plating		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 & Plating	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 uu**

cm = Centimeters  
 <blank> = Inches

Length

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

Outdoor Rated Low PIM RA 7/16 DIN Male to 7/16 DIN Female Cable SPO-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: [Outdoor Rated Low PIM RA 7/16 DIN Male to 7/16 DIN Female Cable SPO-250 Coax Using Times Microwave Parts FMCA2566-12](#)

URL: <https://www.fairviewmicrowave.com/outdoor-rated-low-pim-ra-7-16-din-male-to-7-16-din-female-cable-spo-250-coax-using-times-microwave-parts-fmca2566-12-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



