

### Outdoor Rated Low PIM 7/16 DIN Male to N Male Cable SPO-250 Coax in 100 cm Using Times Microwave Parts

The 7/16 DIN male to type N male 100 cm cable using SPO-250 coax, part number FMCA2012-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a male 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 FMCA2012-100CM 7/16 DIN male to type N male cable assembly operates to 5.8 GHz. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

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	T	ур	Max	Units	
Frequency Range	DC			5.8	GHz	
VSWR				1.4:1		
Velocity of Propagation		8	33		%	
Passive Intermodulation		-1	.65	-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	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.27	0.34	0.41	0.66	1.03	dB

**Electrical Specification Notes:** 

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax 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\* 39.37 in [100 cm]

Cable

Cable Type SPO-250 Impedance 50 Ohms

## FMCA2012-100CM DATA SHEET



### **Configuration:**

- 7/16 DIN Male
- TC-250-716M-LP
- N Male
- TC-250-NM-LP
- 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
- 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





Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1

Outer Conductor Material and Plating

Jacket Material Jacket Diameter

One Time Minimum Bend Radius

Bending Moment

Solid

Copper Clad Aluminum

Foam PE

1

Helically Corrugated Copper Tube

Copper PE, Black

0.303 in [7.7 mm]

1.25 in [31.75 mm] 0.5 lbs-ft [0.68 N-m]

#### **Connectors**

Description	Connect	or 1	Connecto	r 2	
Туре	7/16 DIN		N Male		
Impedance	50 Ohr		50 Ohms		
Mating Cycles			500		
Contact Material & Plating	Brass, Si	Brass, Silver Brass, Silver			
Contact Plating Spec.	200 μin		200 µin		
Dielectric Type	PTFE		PTFE		
Body Material & Plating	Brass, Tri-	Brass, Tri-Metal		letal	
Body Plating Spec.	80 µir	80 μin			
Coupling Nut Material & Pla	ng Brass, Nickel		Brass, Tri-M	letal	
Coupling Nut Plating Spec.	80 µir	1	80 µin		
Torque	22.127 ft-lbs	30 N	lm 9.74 in-lbs 1	.1 Nm	

#### **Environmental Specifications**

Temperature

Operating Range Storage Range -55 to +200 deg C -55 to +200 deg C

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

#### **Plotted and Other Data**

Notes:

Values at 25°C, sea level.

#### **How to Order**

Part Number Configuration:

Example: FMCA2012-12 = 12 inches long cable

FMCA2012-100cm = 100 cm long cable





Outdoor Rated Low PIM 7/16 DIN Male to N Male Cable SPO-250 Coax in 100 cm 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 Male to N Male Cable SPO-250 Coax in 100 cm Using Times Microwave Parts FMCA2012-100CM

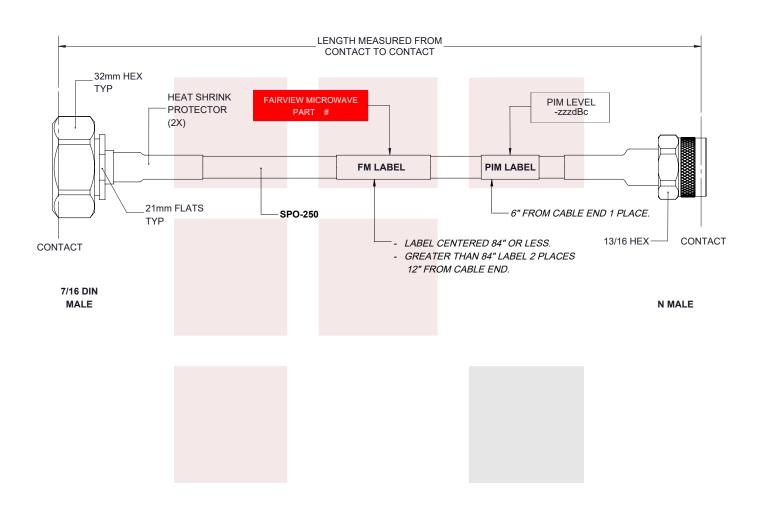
URL: https://www.fairviewmicrowave.com/low-pim-7-16-din-male-n-male-cable-spo250-coax-fmca2012-100cm-p.aspx



301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689



# FMCA2012-100CM DATA SHEET



STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

Fairview Microwave	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.					ГІМЕ.	
an INFINIT <sup>©</sup> brand	3. DIMENSIONS ARE IN INCHES [mm].						
Outdoor Rated Low PIM 7/16 DIN Male to N Male Cable SPO-250 Coax in 100 cm Using Times Microwave Parts	DWG NO FMCA2012				CAGE CODE 3FKR5		
	CAD FILE 06/05/19	SHEET 1 OF 1	SCAI	LE N/A	SIZE A	7361	