

# Outdoor Rated Low PIM RA 4.3-10 Male to RA 4.3-10 Male Cable SPO-250 Coax in 48 Inch Using Times Microwave Parts

The RA 4.3-10 male to RA 4.3-10 male 48 inch cable using SPO-250 coax, part number FMCA2009-48, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to 4.3-10 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 FMCA2009-48 4.3-10 male to 4.3-10 male cable assembly operates to 5.8 GHz. The right angle 4.3-10 interfaces on the SPO-250 cable allow for easier connections in tight spaces. 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	1ax Units		
Frequency Range	DC			5.8	GHz		
VSWR				1.4:1			
Velocity of Propagation		83			%		
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.)	0.3	0.38	0.45	0.73	1.15	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\* 48 in [121.92 cm]

Cable

Cable Type SPO-250

# FMCA2009-48 DATA SHEET



# **Configuration:**

- 4.3-10 Male Right Angle
- TC-250-4310M-RA-LP
- 4.3-10 Male Right Angle
- TC-250-4310M-RA-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





Impedance

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

50 Ohms 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]

Co	nn	ec	to	rs
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Description	Connecto	r 1	Connector 2
Туре	4.3-10 Male		4.3-10 Male
Impedance	50 Ohm	S	50 Ohms
Contact Material & Plating	Brass, Silv	er	Brass, Silver
Contact Plating Spec.	200 μin		200 µin
Dielectric Type	PTFE		PTFE
Body Material & Plating	Brass, Tri-Metal		Brass, Tri-Metal
Body Plating Spec.	80 μin		80 μin
Coupling Nut Material & Pla	ting Brass, Nickel		Brass, Nickel
Coupling Nut Plating Spec.	200 μin		200 μin
Torque	15.05 in-lbs 1	.7 N	lm 15.05 in-lbs 1.7 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: FMCA2009-12 = 12 inches long cable

FMCA2009-100cm = 100 cm long cable

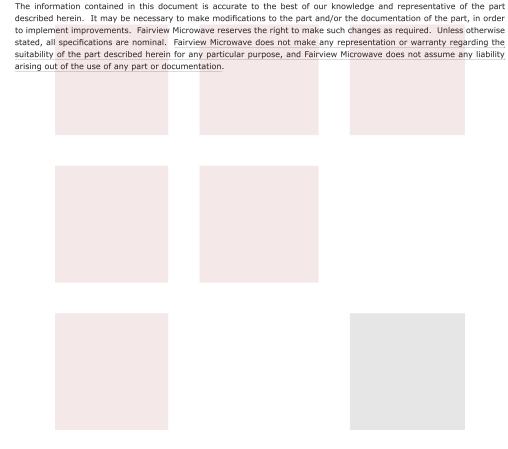




Outdoor Rated Low PIM RA 4.3-10 Male to RA 4.3-10 Male Cable SPO-250 Coax in 48 Inch Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Outdoor Rated Low PIM RA 4.3-10 Male to RA 4.3-10 Male Cable SPO-250 Coax in 48 Inch Using Times Microwave Parts FMCA2009-48

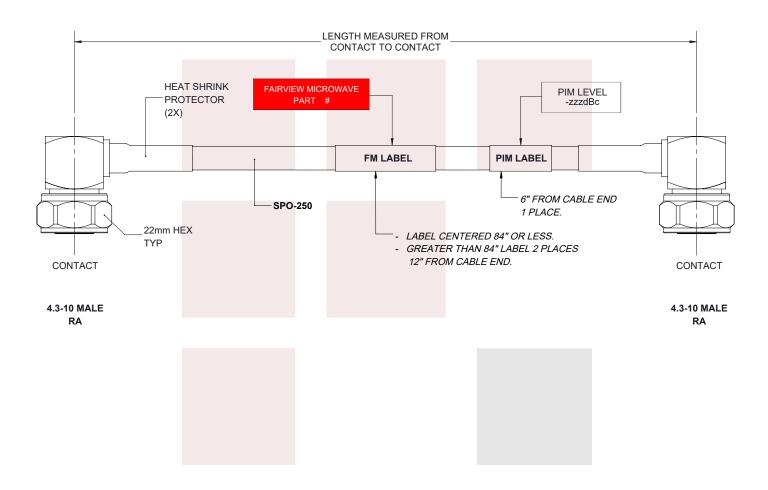
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STANDARD TOLERANCES

.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.  3. DIMENSIONS ARE IN INCHES [mm].						
TITLE  Outdoor Rated Low PIM RA 4.3-10 Male to RA 4.3-	DWG NO FMCA2009				CAGE CODE 3FKR5		
10 Male Cable SPO-250 Coax in 48 Inch Using Times Microwave Parts	CAD FILE 06/05/19	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	