Fairview Microwave

an INFINIT<sup>®</sup> brand

# Outdoor Rated Low PIM 4.3-10 Female to NEX10 Male Cable SPO-250 Coax Using Times Microwave Parts

The 4.3-10 female to NEX10 male cable using SPO-250 coax, part number FMCA2008, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to NEX10 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 FMCA2008 4.3-10 female to NEX10 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	т	ур	Max	ι	Inits	
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	.) 0.041	0.051	0.062	0.103	0.167	dB/ft
	0.13	0.17	0.2	0.34	0.55	dB/m

Electrical Specification Notes:

PIM test results vary between cables

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 0 in [0 mm] 0.176 lbs [79.83 g]

SPO-250 50 Ohms

# FMCA2008 DATA SHEET



# **Configuration:**

- 4.3-10 Female
- TC-SPP250-4310F-LP
- NEX10 Male
- TC-250-NX10M-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



# FMCA2008 DATA SHEET

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 Solid Copper Clad Aluminum Foam PE 1 Helically Corrugated Copper Tube Copper PE, Black 0.303 in [7.7 mm]

One Time Minimum Bend Radius Bending Moment

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

#### Connectors

Description	Connect	or 1		Connecto	or 2
Туре	4.3-10 Fer	male		NEX10 Ma	ale
Impedance	50 Ohm	าร		50 Ohm	s
Mating Cycles				500	
Contact Material & Plating	Phosphor Bron	ze, Sil	ver	Brass, Silv	rer
Contact Plating Spec.	200 µir	۱		100 µin	
Dielectric Type	PTFE			PTFE	
Outer Cond Material & Plati	ng Brass, Tri-N	1etal			
Outer Cond Plating Spec.	80 µin				
Body Material & Plating	Brass, Tri-N	1etal		Brass, Tri-M	etal
Body Plating Spec.	80 µin	80 µin		100 µin	
Coupling Nut Material & Pla	ting		Brass, Tri-Metal		
Coupling Nut Plating Spec.				100 µin	
Torque				13.28 in-lbs 1	.5 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**

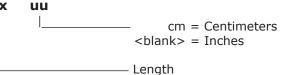
Notes:

• Values at 25°C, sea level.

### **How to Order**

Part Number Configuration:

FMCA2008 - xx



Example: FMCA2008-12 = 12 inches long cable FMCA2008-100cm = 100 cm long cable

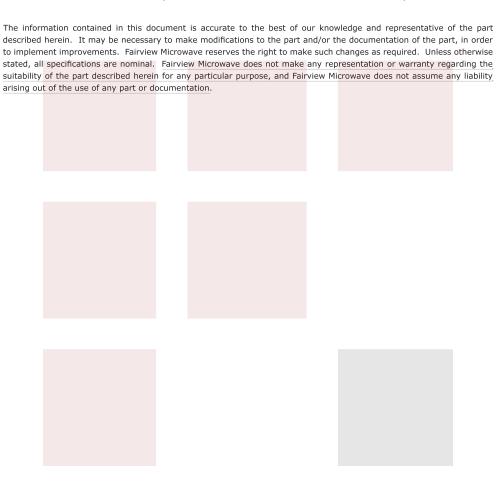




Outdoor Rated Low PIM 4.3-10 Female to NEX10 Male Cable SPO-250 Coax Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Outdoor Rated Low PIM 4.3-10 Female to NEX10 Male Cable SPO-250 Coax Using Times Microwave Parts FMCA2008

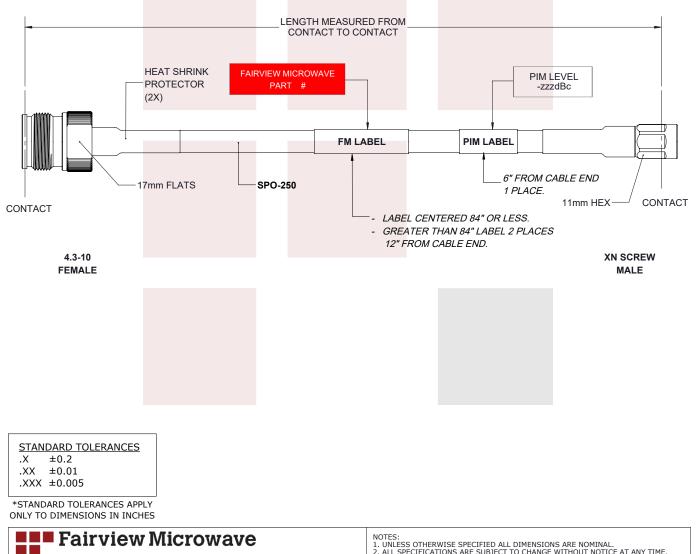
URL: https://www.fairviewmicrowave.com/low-pim-4.3-10-female-nex10-male-cable-spo250-coax-fmca2008-p.aspx



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Outdoor Rated Low PIM 4.3-10 Female to NEX10 Male	DWG NO		CAGE CODE 3FKR5						
Cable SPO-250 Coax Using Times Microwave Parts	CAD FILE 06/05/19	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361			

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