Fairview Microwave

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

The RA 4.3-10 male to 4.3-10 female cable using SPO-250 coax, part number FMCA2002, 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 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 FMCA2002 4.3-10 male to 4.3-10 female cable assembly operates to 5.8 GHz. The right angle 4.3-10 interface on the SPO-250 cable allows 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	т	ур	Max	U	nits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		8	33			%
Passive Intermodulation		-1	L65	-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*

0 in [0 mm]

Cable Cable Type

SPO-250



FMCA2002

DATA SHEET

Configuration:

- 4.3-10 Male Right Angle
- TC-250-4310M-RA-LP
- 4.3-10 Female
- TC-SPP250-4310F-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 Fairview Microwave

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Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	Foam PE
Number of Shields	1
Shield Layer 1	Helically Corrugated Copper Tube
Outer Conductor Material and Plating	Copper
Jacket Material	PE, Black
Jacket Diameter	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	Connecto	or 1	Connector 2		
Туре	4.3-10 Ma	ale	4.3-10 Female		
Impedance	50 Ohm	s	50 Ohms		
Contact Material & Plating	Brass, Silv	/er	Phosphor Bronze, Silver		
Contact Plating Spec.	200 µin		200 µin		
Dielectric Type	PTFE		PTFE		
Outer Cond Material & Plati	ng	Brass, Tri-Metal			
Outer Cond Plating Spec.			80 µin		
Body Material & Plating	Brass, Tri-M	letal	Brass, Tri-Metal		
Body Plating Spec.	80 µin		80 µin		
Coupling Nut Material & Pla	ting Brass, Nicl	kel			
Coupling Nut Plating Spec.	200 µin				
Torque	15.05 in-lbs 1	7 N	m		

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)

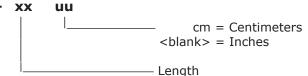
Plotted and Other Data

- Notes:
- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA2002 - xx



Example: FMCA2002-12 = 12 inches long cable FMCA2002-100 cm = 100 cm long cable

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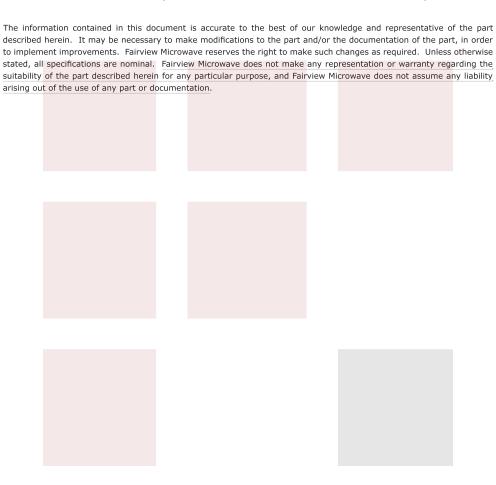




Outdoor Rated Low PIM RA 4.3-10 Male to 4.3-10 Female Cable SPO-250 Coax Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in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

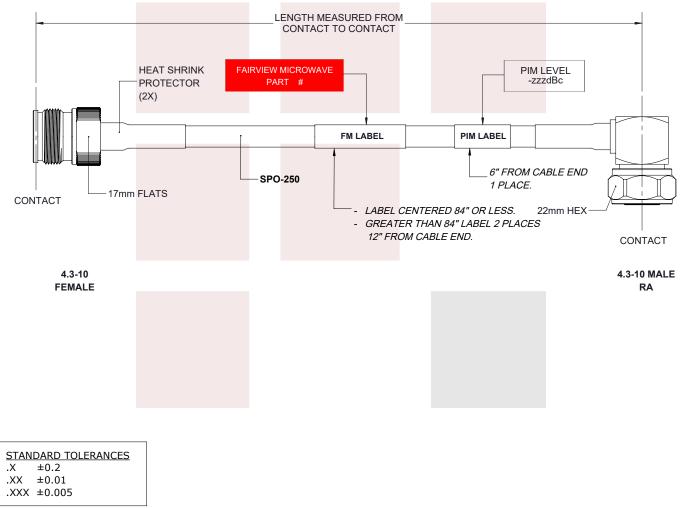
Click the following link to obtain additional part information: Outdoor Rated Low PIM RA 4.3-10 Male to 4.3-10 Female Cable SPO-250 Coax Using Times Microwave Parts FMCA2002

URL: https://www.fairviewmicrowave.com/low-pim-ra-4.3-10-male-4.3-10-female-cable-spo250-coax-fmca2002-p.aspx









*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

an INFINIT [®] brand	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 4.3-10 Female Cable SPO-250 Coax Using Times Microwave Parts	DWG NO FMCA2002				CAGE CODE 3FKR5		
	CAD FILE 06/05/19	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	

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