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Low PIM 4.1/9.5 Mini DIN Female to 7/16 DIN Male Cable TFT-402 Coax Using Times Microwave Components

The 4.1/9.5 Mini DIN female to 7/16 DIN male cable using TFT-402 coax, part number FMCA2414, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to 7/16 DIN cable assembly has a female to male gender configuration with 50 ohm flexible TFT-402 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The FMCA2414 4.1/9.5 Mini DIN female to 7/16 DIN male cable assembly operates to 5.8 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than -80 dB.

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	Units	
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation			76			%
RF Shielding	-80					dB
Passive Intermodulation				-160		dBc
Capacitance		26.7 [87.6]		pF/ft [pF/m]		
DC Resistance Inner Con <mark>ductor</mark>		8.5 [27.89]			Ω/1000ft [Ω/Km]	
DC Resistance Outer Conductor		5.6 [18.37]			Ω/1000ft [Ω/Km]	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.052	0.076	0.108	0.173	0.267	dB/ft
	0.17	0.25	0.35	0.57	0.88	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB for the female connector and 0.1 dB for the male connector.

Mechanical Specifications

Cable Assembly Diameter

1.25 in [31.75 mm]

Cable Cable Type

TFT-402





Configuration:

- 4.1/9.5 Mini DIN Female
- 7/16 DIN Male
- TFT-402

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > -80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

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 Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter 50 Ohms Solid Copper, Silver PTFE 2 Silver Plated Copper Braid Tinned Copper Braid FEP, Blue 0.16 in [4.06 mm]

One Time Minimum Bend Radius

0.75 in [19.05 mm]

Connectors

Description	Connector	1	Conne	ctor	2	
Туре	4.1/9.5 Mini DIN I	Fem	nale 7/16 DI	N Ma	ale	
Impedance	50 Ohms		50 Ohms			
Mating Cycles	500					
Contact Material & Plating	Phosphor Bronze,	Phosphor Bronze, Silver		Brass, Silver		
Contact Plating Spec.	200 µin		5 µ	m		
Dielectric Type	PTFE		PTF	ΞE		
Outer Cond Material & Plati	ng Brass, Tri-Met	al				
Outer Cond Plating Spec.	80 µin					
Body Material & Plating	Brass, Tri-Met	al	Brass, Tr	i-Me	tal	
Body Plating Spec.	80 µin		3 μm			
Coupling Nut Material & Pla	iting		Brass, Tr	ri-Me	tal	
Coupling Nut Plating Spec.			3 μ	m		
Torque			22.083 ft-lbs	5 29.	.95 Nm	

Environmental Specifications

Temperature Operating Range

-55 to +85 deg C

Compliance Certifications (see product page for current document)

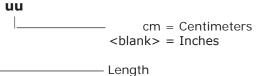
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2414 - xx



Example: FMCA2414-12 = 12 inches long cable FMCA2414-100cm = 100 cm long cable

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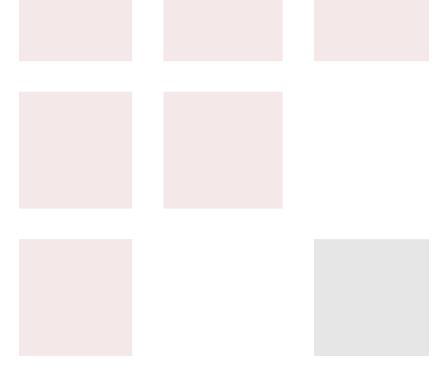


Low PIM 4.1/9.5 Mini DIN Female to 7/16 DIN Male Cable TFT-402 Coax Using Times Microwave Components from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Low PIM 4.1/9.5 Mini DIN Female to 7/16 DIN Male Cable TFT-402 Coax Using Times Microwave Components FMCA2414

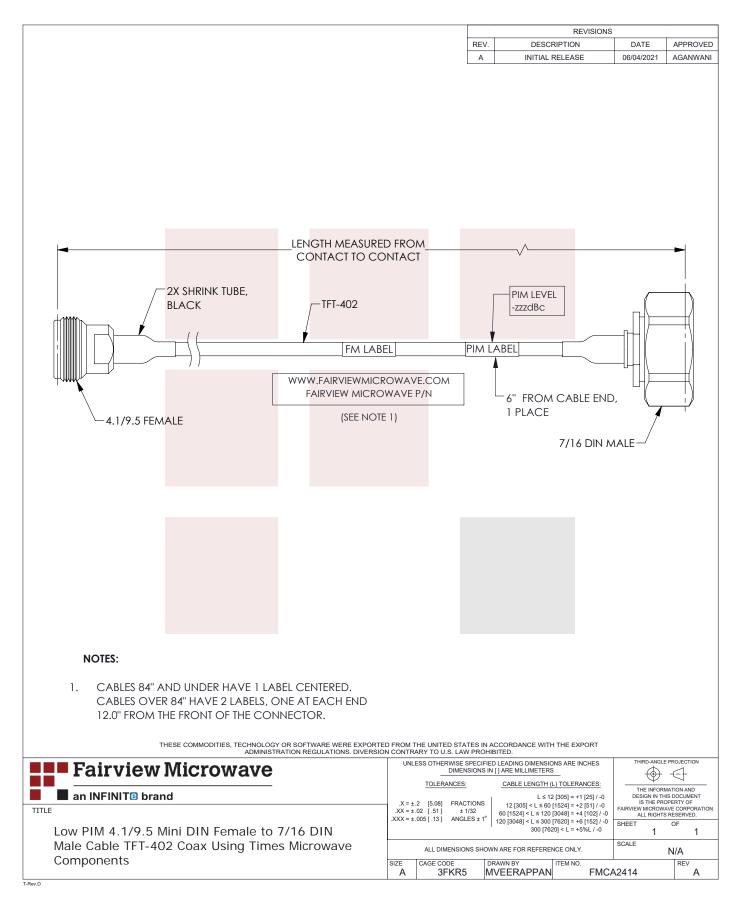
URL: https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-female-7-16-din-male-cable-tft-402-coax-fmca2414-p.aspx

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.



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FMCA2414 DATA SHEET



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