

## Low PIM 4.1/9.5 Mini DIN Female to 7/16 DIN Male Cable TFT-402 Coax in 60 Inch Using Times Microwave Components

The 4.1/9.5 Mini DIN female to 7/16 DIN male 60 inch cable using TFT-402 coax, part number FMCA2414-60, 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 FMCA2414-60 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	Typ	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 Conductor		8.5 [27.89]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		5.6 [18.37]		$\Omega$ /1000ft [ $\Omega$ /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.)	0.41	0.56	0.74	1.13	1.68	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB for the female connector and 0.1 dB for the male connector.

### Mechanical Specifications

#### Cable Assembly

Length*	60 in [152.4 cm]
Diameter	1.25 in [31.75 mm]



### 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

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**Cable**

Cable Type	TFT-402
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Tinned Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.16 in [4.06 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	4.1/9.5 Mini DIN Female	7/16 DIN Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material & Plating	Phosphor Bronze, Silver	Brass, Silver
Contact Plating Spec.	200 μin	5 μm
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Tri-Metal	
Outer Cond Plating Spec.	80 μin	
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80 μin	3 μm
Coupling Nut Material & Plating		Brass, Tri-Metal
Coupling Nut Plating Spec.		3 μm
Torque		22.083 ft-lbs 29.95 Nm

**Environmental Specifications**
**Temperature**

Operating Range -55 to +85 deg C

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

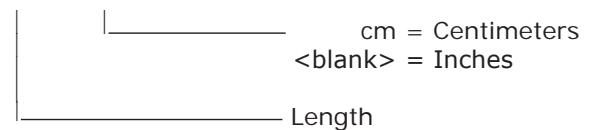
**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA2414 - xx uu**



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

Low PIM 4.1/9.5 Mini DIN Female to 7/16 DIN Male Cable TFT-402 Coax in 60 Inch 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.

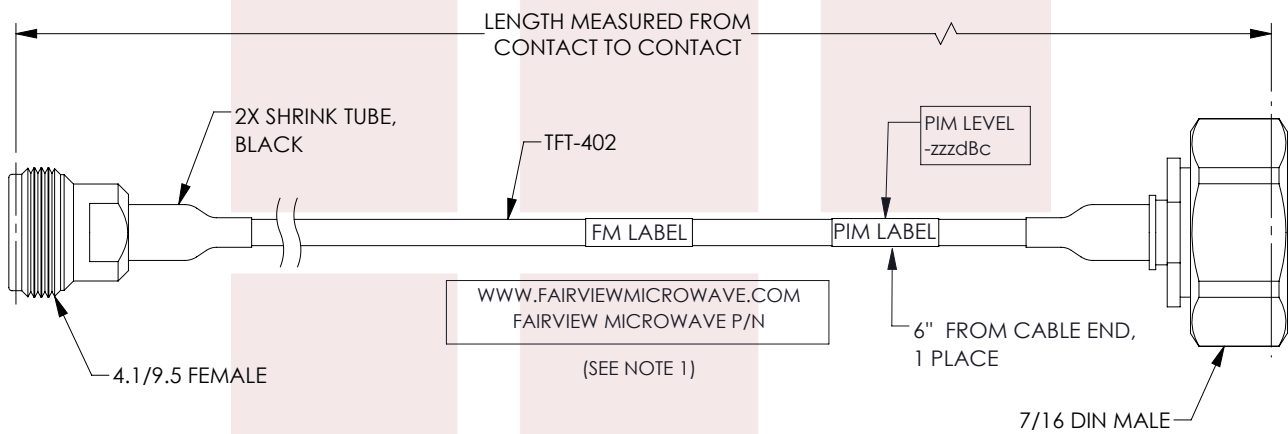
Click the following link to obtain additional part information: [Low PIM 4.1/9.5 Mini DIN Female to 7/16 DIN Male Cable TFT-402 Coax in 60 Inch Using Times Microwave Components FMCA2414-60](https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-female-7-16-din-male-cable-tft-402-coax-fmca2414-60)

URL: <https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-female-7-16-din-male-cable-tft-402-coax-fmca2414-60-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/04/2021	AGANWANI



**NOTES:**

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED.  
CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END  
12.0" FROM THE FRONT OF THE CONNECTOR.

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	<p>TITLE</p> <p>Low PIM 4.1/9.5 Mini DIN Female to 7/16 DIN Male Cable TFT-402 Coax in 60 Inch Using Times Microwave Components</p>		<p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>			<p>SIZE A CAGE CODE 3FKR5 DRAWN BY MVEERAPPAN ITEM NO. FMCA2414 REV A</p>

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