

## Low PIM 4.1/9.5 Mini DIN Female to RA N Male Cable TFT-402-LF Coax Using Times Microwave Components

The 4.1/9.5 Mini DIN female to RA type N male cable using TFT-402-LF coax, part number FMCA2475, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to type N cable assembly has a female to male gender configuration with 50 ohm flexible TFT-402-LF 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 FMCA2475 4.1/9.5 Mini DIN female to type N male cable assembly operates to 5.8 GHz. The right angle type N interface on the TFT-402-LF cable allows for easier connections in tight spaces. 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]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.057	0.083	0.117	0.19	0.295	dB/ft
	0.19	0.27	0.38	0.62	0.97	dB/m

### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as  $0.1 * \sqrt{\text{FGHz}}$  dB for the straight connector and 0.1 dB for the right angle connector.

### Mechanical Specifications

#### Cable Assembly

Diameter 0.374 in [9.5 mm]

#### Cable

Cable Type TFT-402-LF  
 Impedance 50 Ohms



### Configuration:

- 4.1/9.5 Mini DIN Female
- N Male Right Angle
- TFT-402-LF

### 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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Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PTFE
Number of Shields	2
Jacket Material	FEP, Blue
Jacket Diameter	0.16 in [4.06 mm]

One Time Minimum Bend Radius	0.75 in [19.05 mm]
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### Connectors

Description	Connector 1	Connector 2
Type	4.1/9.5 Mini DIN Female	N 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		10 in-lbs 1.13 Nm

### Environmental Specifications

#### Temperature

Operating Range	-55 to +85 deg C
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### Compliance Certifications (see [product page](#) for current document)

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMCA2475 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2475-12 = 12 inches long cable  
 FMCA2475-100cm = 100 cm long cable

Low PIM 4.1/9.5 Mini DIN Female to RA N Male Cable TFT-402-LF 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.

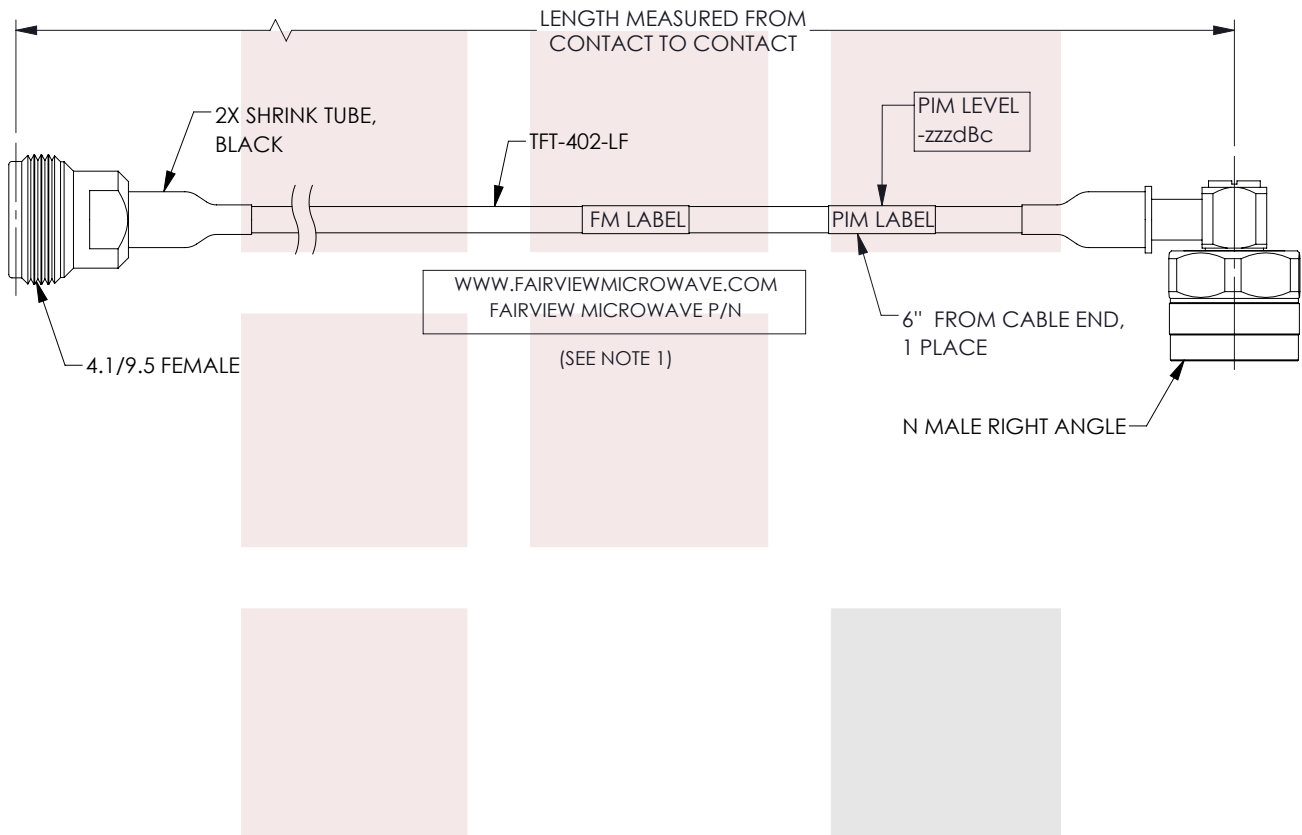
Click the following link to obtain additional part information: [Low PIM 4.1/9.5 Mini DIN Female to RA N Male Cable TFT-402-LF Coax Using Times Microwave Components FMCA2475](#)

URL: <https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-female-ra-n-male-cable-tft-402-lf-coax-fmca2475-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>Low PIM 4.1/9.5 Mini DIN Female to RA N Male Cable TFT-402-LF Coax Using Times Microwave Components</p>		<p>CABLE LENGTH (L) TOLERANCES:</p>		<p>SHEET 1 OF 1</p>	
<p>SIZE A</p>		<p>CAGE CODE 3FKR5</p>		<p>SCALE N/A</p>	
<p>DRAWN BY MVEERAPPAN</p>		<p>ITEM NO. FMCA2475</p>		<p>REV A</p>	

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