



Low PIM 2.2-5 Female to RA N Male Cable TFT-402-LF Coax Using Times Microwave Components

The 2.2-5 female to RA type N male cable using TFT-402-LF coax, part number FMCA2531, from Fairview Microwave is in-stock and ships same day. This Fairview 2.2-5 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 FMCA2531 2.2-5 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	Тур	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 Isos of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB for the straight connector and 0.1 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Diameter 0.665 in [16.89 mm]

Cable

Cable Type TFT-402-LF Impedance 50 Ohms



Configuration:

- 2.2-5 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]

Connectors

Description	Connector 1 Connector 2			r 2		
Туре	2.2-5 Fer	nale	N Male			
Impedance	50 Ohr	ns	50 Ohms			
Mating Cycles	100					
Contact Material & Plating	Beryllium Copp	oer, Sil	lver Brass, Silver			
Contact Plating Spec.	200 µi	n	5 µm			
Dielectric Type	PTFE		PTFE			
Outer Cond Material & Plating Beryllium Copper, Silver						
Outer Cond Plating Spec. 100 µin						
Body Material & Plating	Brass, Silver			Brass, Tri-Metal		
Body Plating Spec.	100 µin			3 µm		
Coupling Nut Material & Pla	nting		Brass, Tri-Metal			
Coupling Nut Plating Spec.				3 µm		
Torque	26 in-lbs 2.	94 Nr	m 10 in-lbs 1.13 Nm		3 Nm	

Environmental Specifications

Temperature

Operating Range -40 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

Example: FMCA2531-12 = 12 inches long cable

FMCA2531-100cm = 100 cm long cable





Low PIM 2.2-5 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.

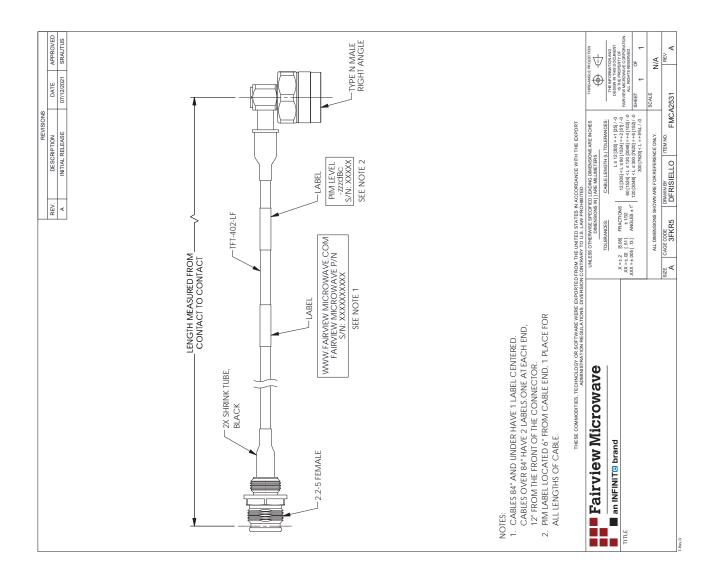
Click the following link to obtain additional part information: Low PIM 2.2-5 Female to RA N Male Cable TFT-402-LF Coax Using Times Microwave Components FMCA2531

URL: https://www.fairviewmicrowave.com/low-pim-2.2-5-female-ra-n-male-cable-tft-402-lf-coax-fmca2531-p.aspx









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