



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

The 2.2-5 female to type N male cable using TFT-402-LF coax, part number FMCA2530, 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 FMCA2530 2.2-5 female to type N 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]

#### 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 per connector.

## **Mechanical Specifications**

#### **Cable Assembly**

Diameter 0.808 in [20.52 mm]

#### Cable

Cable Type TFT-402-LF
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper
Dielectric Type PTFE



# **Configuration:**

- 2.2-5 Female
- N Male
- 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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Number of Shields Jacket Material Jacket Diameter 2 FEP, Blue

0.16 in [4.06 mm]

One Time Minimum Bend Radius

0.75 in [19.05 mm]

## **Connectors**

Description	Connector 1	Connector 2
Туре	2.2-5 Female	N Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	100	500
Contact Material & Plating	Beryllium Copper, Sil	ver Brass, Silver
Contact Plating Spec.	200 µin	200 µin
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plat	ing Beryllium Copper, Sil	ver
Outer Cond Plating Spec.	100 µin	
Body Material & Plating	Brass, Silver	Brass, Tri-Metal
Body Plating Spec.	100 µin	80 µin
Coupling Nut Material & Pla	ating	Brass, Tri-Metal
Coupling Nut Plating Spec.		80 µin
Torque	26 in-lbs 2.94 Nr	n 15 in-lbs 1.7 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:

FMCA2530 - xx

uu

cm = Centimeters
<black</pre>

- Length

Example: FMCA2530-12 = 12 inches long cable

FMCA2530-100cm = 100 cm long cable





Low PIM 2.2-5 Female to 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.

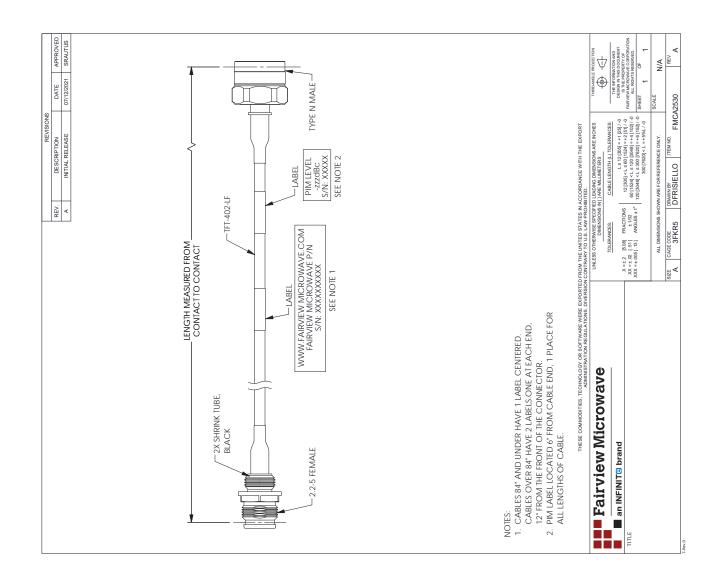
Click the following link to obtain additional part information: Low PIM 2.2-5 Female to N Male Cable TFT-402-LF Coax Using Times Microwave Components FMCA2530

URL: https://www.fairviewmicrowave.com/low-pim-2.2-5-female-n-male-cable-tft-402-lf-coax-fmca2530-p.aspx









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