

# Low PIM 2.2-5 Female to N Male Cable TFT-5G-402 Coax in 50 CM Using Times Microwave Components



## FMCA2530-50CM

#### Configuration

Connector 1: 2.2-5 Female
Connector 2: N Male
Cable Type: TFT-5G-402
Coax Flex Type: Flexible

#### **Features**

- Max Frequency 5.8 GHzLow 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

## **Description**

The 2.2-5 female to type N male 50 cm cable using TFT-5G-402 coax, part number FMCA2530-50CM, 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-5G-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 FMCA2530-50CM 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	80			dB
Passive Intermodulation			-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				



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# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Capacitance		26.7 [87.6]		pF/ft [pF/m]

# **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.2	0.28	0.4	0.63	0.97	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 per connector.

# **Mechanical Specifications**

#### Cable Assembly

Width/Diameter 0.808 in [20.52 mm]

Cable

Cable TypeTFT-5G-402Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePTFE

Dielectric Type PTI
Number of Shields 2

Jacket MaterialFEP, BlueJacket Diameter0.16 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
Туре	2.2-5 Female	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	100	500
Contact Material and Plating	Beryllium Copper, Silver	Brass, Silver
Contact Plating Specification	200 μin	200 μin
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Silver	
Outer Conductor Plating Specification	100 μin	
Body Material and Plating	Brass, Silver	Brass, Tri-Metal
Body Plating Specification	100 μin	80 μin
Coupling Nut Material and Plating		Brass, Tri-Metal
Coupling Nut Plating Specification		80 μin
Torque	26 in-lbs 2.94 Nm	15 in-lbs 1.7 Nm

# **Environmental Specifications**

**Operating Range Temperature** 

-40 to +125 deg C

Compliance Certifications (see product page for current document)

# **Plotted and Other Data**

Notes:



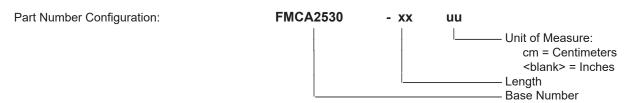
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## FMCA2530-50CM

#### **Typical Performance Data**

#### **How to Order**



Example: FMCA2530-12 = 12 inches long cable

FMCA2530-100cm = 100 cm long cable

Low PIM 2.2-5 Female to N Male Cable TFT-5G-402 Coax in 50 CM Using Times Microwave Components from Fairview Microwave is instock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low PIM 2.2-5 Female to N Male Cable TFT-5G-402 Coax in 50 CM Using Times Microwave Components FMCA2530-50CM

URL: https://www.fairviewmicrowave.com/product/rf-cable-assemblies/low-pim-2.2-5-female-to-n-male-cable-tft-5g-402-coax-in-50-cm-using-times-microwave-components-fmca2530-50cm.html

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