

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

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## FMCA2331-50CM

### Configuration

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

### **Features**

- Max Frequency 3 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- · Double Shielded
- · FEP Jacket
- · 100 Mating Cycles

### **Applications**

- · General Purpose
- · Laboratory Use

- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

# **Description**

The 2.2-5 male to 2.2-5 female 50 cm cable using TFT-5G-402 coax, part number FMCA2331-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview 2.2-5 to 2.2-5 cable assembly has a male to female 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 FMCA2331-50CM 2.2-5 male to 2.2-5 female cable assembly operates to 3 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		3	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.)	0.21	0.27	0.38	0.64	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

Length 19.68 in [499.87 mm] Width/Diameter 0.665 in [16.89 mm]

Cable

Cable TypeTFT-5G-402Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePTFENumber of Shields2

Jacket MaterialFEP, BlueJacket Diameter0.16 in [4

Jacket Diameter0.16 in [4.06 mm]One Time Minimum Bend Radius0.75 in [19.05 mm]



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## **Connectors**

Description	Connector 1	Connector 2	
Туре	2.2-5 Male	2.2-5 Female	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Mating Cycles	100	100	
Contact Material and Plating	Beryllium Copper, Silver	Beryllium Copper, 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, Silver	
Body Plating Specification	100 μin	100 µin	
Coupling Nut Material and Plating	Brass, Tri-Metal		
Coupling Nut Plating Specification	100 μin		
Torque	26 in-lbs 2.94 Nm	26 in-lbs 2.94 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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## **Typical Performance Data**

### **How to Order**



Example: FMCA2331-12 = 12 inches long cable FMCA2331-100cm = 100 cm long cable

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For additional information on this product, please click the following link: 2.2-5 Male to 2.2-5 Female Low PIM Cable 50 CM Length Using TFT-5G-402 Coax Using Times Microwave Components FMCA2331-50CM

URL: https://www.fairviewmicrowave.com/low-pim-2.2-5-male-to-2.2-5-female-cable-tft-5g-402-coax-in-50-cm-using-times-microwave-components-fmca2331-50cm-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

# FMCA2331-50CM CAD Drawing

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

