



# **NEX10** Male to **NEX10** Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components

The NEX10 male to NEX10 male cable using TFT-402 coax, part number FMCA2321, from Fairview Microwave is in-stock and ships same day. This Fairview NEX10 to NEX10 cable assembly has a male to male gender configuration with 50 ohm flexible TFT-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 FMCA2321 NEX10 male to NEX10 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]
DC Resistance Inner Conductor	8.5 [27.89]	Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor	5.6 [18.37]	Ω/1000ft [Ω/Km]

## **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.05	0.07	0.1	0.17	0.26	dB
	0.16	0.23	0.33	0.56	0.85	

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1\*SQRT(FGHz) dB per connector.

## **Mechanical Specifications**

**Cable Assembly** 

Length\* 0 in [0 mm]
Diameter 0.472 in [11.99 mm]

**Cable** 

Cable Type TFT-402 Impedance 50 Ohms



# **Configuration:**

- NEX10 Male
- NEX10 Male
- TFT-402

## Features:

- Max Frequency 5.8 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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689

www.fairviewmicrowave.com sales@fairviewmicrowave.com





Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1 Shield Layer 2

Jacket Material

Jacket Diameter

Solid

Copper, Silver

PTFE 2

Silver Plated Copper Braid

Tinned Copper Braid

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	NEX10 Male	NEX10 Male	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	100	100	
Contact Material & Plating	Brass, Silver	Brass, Silver	
Contact Plating Spec.	100 µin	100 µin	
Dielectric Type	PTFE	PTFE	
Body Material & Plating	Brass, Silver	Brass, Silver	
Body Plating Spec.	100 µin	100 µin	
Coupling Nut Material & Platir	ng Brass, Tri-Metal	Brass, Tri-Metal	
Coupling Nut Plating Spec.	100 µin	100 µin	
Torque	9 in-lbs 1.02 Nm	9 in-lbs 1.02 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:

FMCA2321 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA2321-12 = 12 inches long cable

FMCA2321-100cm = 100 cm long cable





NEX10 Male to NEX10 Male Low PIM Cable Using TFT-402 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: NEX10 Male to NEX10 Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components FMCA2321

URL: https://www.fairviewmicrowave.com/low-pim-nex10-male-nex10-male-cable-tft-402-coax-fmca2321-p.aspx







