



#### **FMCA2502**

#### Configuration

· Connector 1: 4.3-10 Male Right Angle

Connector 2: N MaleCable Type: TFT-5G-402Coax Flex Type: Flexible

#### **Features**

- · Max Frequency 5.8 GHz
- · Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- · Double Shielded
- FEP Jacket
- · 500 Mating Cycles

#### **Applications**

- · General Purpose
- · Laboratory Use

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

## **Description**

The RA 4.3-10 male to type N male cable using TFT-5G-402 coax, part number FMCA2502, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to type N cable assembly has a male 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 FMCA2502 4.3-10 male to type N male cable assembly operates to 5.8 GHz. The right angle 4.3-10 interface on the TFT-5G-402 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	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				





## **FMCA2502**

## **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.)	0.057	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 loss of the connectors. Insertion Loss is estimated as 0.1\*SQRT(FGHz) dB per connector.

## **Mechanical Specifications**

**Cable Assembly** 

Width/Diameter 0.86 in [21.84 mm]

Cable

Cable Type TFT-5G-402
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper

Inner Conductor Material and Plating

Dielectric Type

Number of Shields

Jacket Material

Copper
PTFE

Jacket MaterialFEP, BlueJacket Diameter0.16 in [4.06 mm]

Jacket Diameter 0.16 in [4.06 mm]
One Time Minimum Bend Radius 0.75 in [19.05 mm]





## **FMCA2502**

#### **Connectors**

Description	Connector 1	Connector 2
Туре	4.3-10 Male Right Angle	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	200 μin	200 μin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μin	80 μin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 μin	80 μin
Torque	44 in-lbs 4.97 Nm	15 in-lbs 1.7 Nm

## **Environmental Specifications**

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:





## **FMCA2502**

#### **Typical Performance Data**

#### **How to Order**

Part Number Configuration:

FMCA2502 - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
chlank> = Inches
<br/>
Length
Base Number

Example: FMCA2502-12 = 12 inches long cable

FMCA2502-100cm = 100 cm long cable

Low PIM RA 4.3-10 Male to N Male Cable TFT-5G-402 Coax Using Times Microwave Components from Fairview Microwave is in-stock 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 RA 4.3-10 Male to N Male Cable TFT-5G-402 Coax Using Times Microwave Components FMCA2502

URL: https://www.fairviewmicrowave.com/low-pim-ra-4.3-10-male-to-n-male-cable-tft-5g-402-coax-using-times-micro-wave-components-fmca2502-p.aspx

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