

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



#### **FMCA2326**

#### Configuration

Connector 1: SMA MaleConnector 2: SMA MaleCable Type: TFT-402Coax Flex Type: Flexible

#### **Features**

- Max Frequency 5.8 GHz
- Low PIM: -150 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 SMA male to SMA male cable using TFT-402 coax, part number FMCA2326, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA 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 -150 dBc. The FMCA2326 SMA male to SMA 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			
Passive Intermodulation			-150	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
Capacitance		26.7 [87.6]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.5 [27.89]		Ohms/1000ft [Ohms/Km]



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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
DC Resistance Outer Conductor		5.6 [18.37]		Ohms/1000ft [Ohms/Km]

#### **Specifications by Frequency**

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

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.15 dB per connector.

#### **Mechanical Specifications**

#### **Cable Assembly**

Width/Diameter 0.374 in [9.5 mm]

Cable

Cable Type TFT-402 Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver

Dielectric Type **PTFE** Number of Shields Shield Layer 1 Silver Plated Copper Braid

Shield Layer 2 **Tinned Copper Braid** 

FEP, Blue Jacket Material

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



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#### **FMCA2326**

#### **Connectors**

Description	Connector 1	Connector 2
Туре	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	5 μm	5 μm
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Silver	Brass, Silver
Body Plating Specification	5 μm	5 μm
Coupling Nut Material and Plating	Brass, Copper Clad Aluminum	Brass, Copper Clad Aluminum
Coupling Nut Plating Specification	3 μm	3 µm
Torque	9 in-lbs 1.02 Nm	9 in-lbs 1.02 Nm

#### **Environmental Specifications**

Operating Range Temperature

-55 to +150 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:



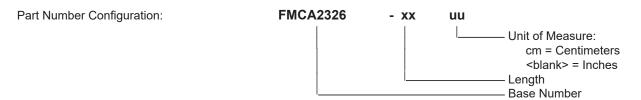
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#### **FMCA2326**

#### **Typical Performance Data**

#### **How to Order**



Example: FMCA2326-12 = 12 inches long cable

FMCA2326-100cm = 100 cm long cable

SMA Male to SMA Male Low PIM Cable Using TFT-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: SMA Male to SMA Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components FMCA2326

URL: https://www.fairviewmicrowave.com/low-pim-sma-male-sma-male-cable-tft-402-coax-fmca2326-p.aspx

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