

## SMA Male to SMA Male Right Angle Low PIM Cable 48 Inch Length Using TFT-402-LF Coax Using Times Microwave Components

The SMA male to RA SMA male 48 inch cable using TFT-402-LF coax, part number FMCA2359-48, 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-LF 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 FMCA2359-48 SMA male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interface on the TFT-402-LF 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	Min	Typ	Max	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	80			dB
Passive Intermodulation			-150	dBc
Capacitance		26.7 [87.6]		pF/ft [pF/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.58	0.62	0.74	1.1	1.5	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 0.15 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 48 in [121.92 cm]  
Diameter 0.374 in [9.5 mm]

#### Cable

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



### Configuration:

- SMA Male
- SMA Male Right Angle
- TFT-402-LF

### 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

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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Inner Conductor Material and Plating	Copper
Dielectric Type	PTFE
Number of Shields	2
Jacket Material	FEP, Blue
Jacket Diameter	0.16 in [4.06 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]

## Connectors

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

## Environmental Specifications

### Temperature

Operating Range -55 to +150 deg C

## Compliance Certifications (see [product page](#) for current document)

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMCA2359 - xx uu**

cm = Centimeters  
<blank> = Inches

Length

Example: FMCA2359-12 = 12 inches long cable  
FMCA2359-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Low PIM Cable 48 Inch Length Using TFT-402-LF 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: [SMA Male to SMA Male Right Angle Low PIM Cable 48 Inch Length Using TFT-402-LF Coax Using Times Microwave Components FMCA2359-48](https://www.fairviewmicrowave.com/low-pim-sma-male-ra-sma-male-cable-tft-402-lf-coax-fmca2359-48-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-sma-male-ra-sma-male-cable-tft-402-lf-coax-fmca2359-48-p.aspx>

The information contained in 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 implement 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 any liability arising out of the use of any part or documentation.



