

Low PIM SMA Male to SMA Male Cable TFT-5G-402 Coax With Times Microwave Connectors with LF Solder



FMC01105/0001

Configuration

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

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

Description

The SMA male to SMA male cable using TFT-5G-402 coax, part number FMC01105/0001, 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-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. The FMC01105/0001 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			dB
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.)	0.043	0.081	0.111	0.188	0.295	dB/ft
	0.14	0.27	0.36	0.62	0.97	dB/m

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Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1 \times \sqrt{\text{FGHZ}}$ dB per connector.

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.09 lbs [40.82 g]

Cable

Cable Type	TFT-5G-402
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PTFE
Number of Shields	2
Outer Conductor 1 Material and Plating	Copper, Tin
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
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	196µin minimum	196µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Silver	Brass, Silver
Body Plating Specification	196µin minimum	196µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	118µin minimum	118µin minimum
Torque	9 in-lbs 1.02 Nm	9 in-lbs 1.02 Nm

Environmental Specifications

Operating Range Temperature	-55 to +150 deg C
Ingress Protection (IP) Rating	IP 67 Rated
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition B
Thermal Shock	MIL-STD-202, Method 107, Condition B

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FMC01105/0001

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

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration: **FMC01105/0001** - **xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: FMC01105/0001-12 = 12 inches long cable
FMC01105/0001-100cm = 100 cm long cable

Low PIM SMA Male to SMA Male Cable TFT-5G-402 Coax With Times Microwave Connectors with LF Solder 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 SMA Male to SMA Male Cable TFT-5G-402 Coax With Times Microwave Connectors with LF Solder FMC01105/0001](#)

URL: <https://www.fairviewmicrowave.com/low-pim-sma-male-to-sma-male-cable-tft-5g-402-coax-with-times-microwave-connectors-with-lf-solder-fmc01105-0001-p.aspx>

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FMC01105/0001 CAD Drawing

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