

## SMA Male to SMA Male Low PIM Cable 12 Inch Length Using TFT-5G-402 Coax Using Times Microwave Components



### FMCA2358-12

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: TFT-5G-402
- Coax 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 12 inch cable using TFT-5G-402 coax, part number FMCA2358-12, 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 with PIM levels better than -150 dBc. The FMCA2358-12 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    |
| Passive Intermodulation                    |         |         | -150    | dBc   |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz |         |         |         |       |

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#### 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.) | 0.33 | 0.35 | 0.38 | 0.42 | 0.54 | 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

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.374 in [9.5 mm]   |
| Weight         | 0.088 lbs [39.92 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                  |
| 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      | 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            |

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#### Environmental Specifications

Operating Range Temperature -55 to +150 deg C

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**FMCA2358 - xx uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: FMCA2358-12 = 12 inches long cable  
FMCA2358-100cm = 100 cm long cable

SMA Male to SMA Male Low PIM Cable 12 Inch Length Using 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: [SMA Male to SMA Male Low PIM Cable 12 Inch Length Using TFT-5G-402 Coax Using Times Microwave Components FMCA2358-12](#)

URL: <https://www.fairviewmicrowave.com/low-pim-sma-male-sma-male-cable-tft-5g-402-coax-fmca2358-12-p.aspx>

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FMCA2358-12 CAD Drawing

SMA Male to SMA Male Low PIM Cable 12 Inch Length Using TFT-5G-402 Coax Using Times Microwave Components

