

## 7/16 DIN Male to 7/16 DIN Male Low PIM Cable 24 Inch Length Using TFT-402-LF Coax Using Times Microwave Components

### FMCA2341-24



#### Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: 7/16 DIN Male
- Cable Type: TFT-402-LF
- Coax 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

#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

#### Description

The 7/16 DIN male to 7/16 DIN male 24 inch cable using TFT-402-LF coax, part number FMCA2341-24, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to 7/16 DIN 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 -160 dBc. The FMCA2341-24 7/16 DIN male to 7/16 DIN 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                    |         |         | -160    | 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.) | 0.34 | 0.36 | 0.42 | 0.6 | 0.8 | 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 0.1 dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 1.25 in [31.75 mm]

**Cable**

Cable Type TFT-402-LF  
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                               | 7/16 DIN Male               | 7/16 DIN 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, Copper Clad Aluminum | Brass, Copper Clad Aluminum |
| Body Plating Specification         | 3 µm                        | 3 µm                        |
| Coupling Nut Material and Plating  | Brass, Copper Clad Aluminum | Brass, Copper Clad Aluminum |
| Coupling Nut Plating Specification | 3 µm                        | 3 µm                        |
| Torque                             | 22.083 ft-lbs 29.95 Nm      | 22.083 ft-lbs 29.95 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:

**FMCA2341 - xx uu**

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

Length

Base Number

Example: FMCA2341-12 = 12 inches long cable  
FMCA2341-100cm = 100 cm long cable

7/16 DIN Male to 7/16 DIN Male Low PIM Cable 24 Inch Length Using TFT-402-LF 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: [7/16 DIN Male to 7/16 DIN Male Low PIM Cable 24 Inch Length Using TFT-402-LF Coax Using Times Microwave Components FMCA2341-24](#)

URL: <https://www.fairviewmicrowave.com/low-pim-7-16-din-male-7-16-din-male-cable-tft-402-lf-coax-fmca2341-24-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

FMCA2341-24 CAD Drawing

7/16 DIN Male to 7/16 DIN Male Low PIM Cable 24 Inch Length Using TFT-402-LF Coax Using Times Microwave Components

