

7/16 DIN Male to 7/16 DIN Female 4 Hole Flange
Low PIM Cable 60 Inch Length Using TFT-402-
LF Coax Using Times Microwave Components



FMCA2344-60

Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: 7/16 DIN Female 4 Hole Flange
- 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 female 4 hole flange 60 inch cable using TFT-402-LF coax, part number FMCA2344-60, 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 female 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 FMCA2344-60 7/16 DIN male to 7/16 DIN female cable assembly operates to 5.8 GHz. Our RF cable assembly with 7/16 DIN 4 hole flange interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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.) | 0.55 | 0.6 | 0.75 | 1.2 | 1.7 | 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 1.26 in [32 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]

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|-----------------------------|-------------------------------|
| Type | 7/16 DIN Male | 7/16 DIN Female 4 Hole Flange |
| 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 |
| Outer Conductor Material and Plating | | Brass, Copper Clad Aluminum |
| Outer Conductor Plating Specification | | 3 µm |
| 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 | |
| Coupling Nut Plating Specification | 3 µm | |
| Torque | 22.083 ft-lbs 29.95 Nm | 22.083 ft-lbs 29.95 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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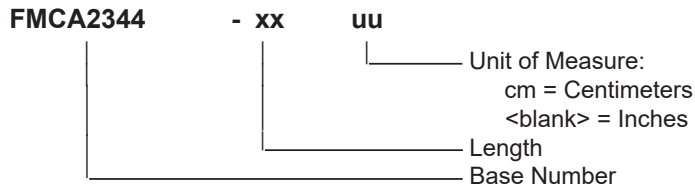


FMCA2344-60

Typical Performance Data

How to Order

Part Number Configuration:



Example: FMCA2344-12 = 12 inches long cable
FMCA2344-100cm = 100 cm long cable

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For additional information on this product, please click the following link: [7/16 DIN Male to 7/16 DIN Female 4 Hole Flange Low PIM Cable 60 Inch Length Using TFT-402-LF Coax Using Times Microwave Components FMCA2344-60](https://www.fairviewmicrowave.com/low-pim-7-16-din-male-7-16-din-female-cable-tft-402-lf-coax-fmca2344-60-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-7-16-din-male-7-16-din-female-cable-tft-402-lf-coax-fmca2344-60-p.aspx>

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