

## Low PIM 4.1/9.5 Mini DIN Male to 4.1/9.5 Mini DIN Male Cable TFT-5G-402 Coax in 12 Inch Using Times Microwave Components



### FMCA2332-12

#### Configuration

- Connector 1: 4.1/9.5 Mini DIN Male
- Connector 2: 4.1/9.5 Mini DIN Male
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 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 4.1/9.5 Mini DIN male to 4.1/9.5 Mini DIN male 12 inch cable using TFT-5G-402 coax, part number FMCA2332-12, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to 4.1/9.5 Mini DIN 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 -160 dBc. The FMCA2332-12 4.1/9.5 Mini DIN male to 4.1/9.5 Mini DIN male cable assembly operates to 3 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		3	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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**FMCA2332-12**

**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	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.24	0.26	0.29	0.32	0.41	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**

Length	12 in [304.8 mm]
Width/Diameter	0.866 in [22 mm]

**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	4.1/9.5 Mini DIN Male	4.1/9.5 Mini 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	2 µm	2 µm
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	5 µm	5 µm
Torque	106 in-lbs 11.98 Nm	106 in-lbs 11.98 Nm

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**Environmental Specifications**

Operating Range Temperature -40 to +85 deg C

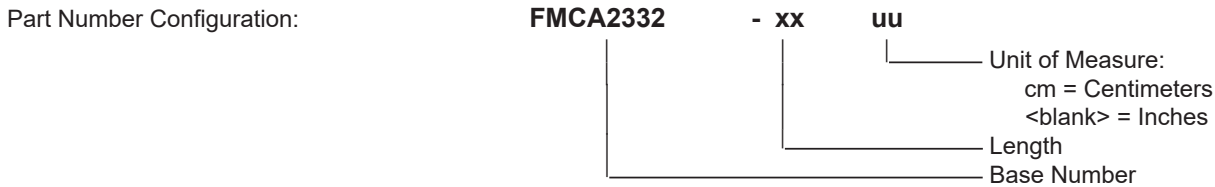
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Performance Data**

**How to Order**



Example: FMCA2332-12 = 12 inches long cable  
FMCA2332-100cm = 100 cm long cable

Low PIM 4.1/9.5 Mini DIN Male to 4.1/9.5 Mini DIN Male Cable TFT-5G-402 Coax in 12 Inch 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.

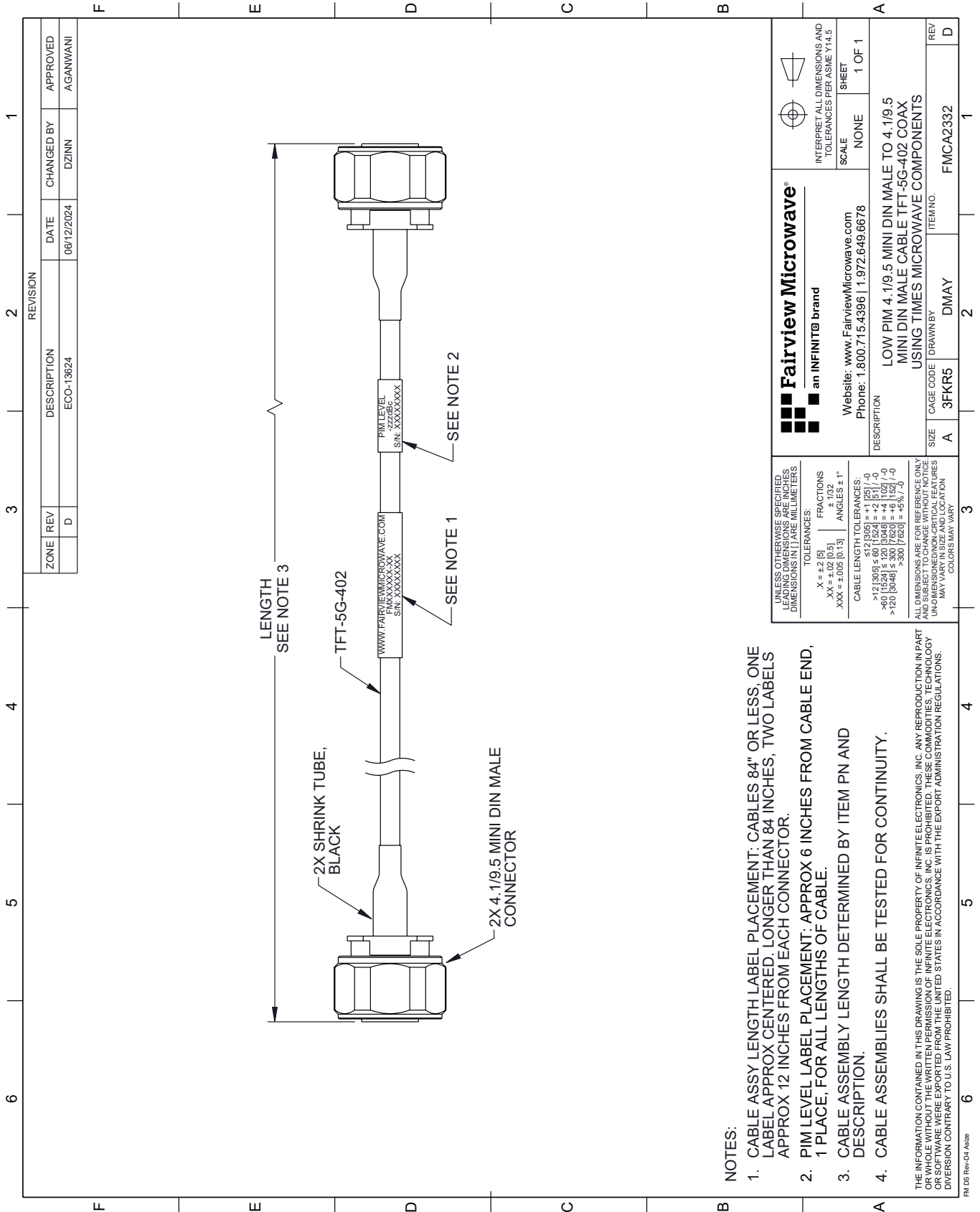
For additional information on this product, please click the following link: [Low PIM 4.1/9.5 Mini DIN Male to 4.1/9.5 Mini DIN Male Cable TFT-5G-402 Coax in 12 Inch Using Times Microwave Components FMCA2332-12](#)

URL: <https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-male-to-4.1-9.5-mini-din-male-cable-tft-5g-402-coax-in-12-inch-using-times-microwave-components-fmca2332-12-p.aspx>

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# FMCA2332-12 CAD Drawing

Low PIM 4.1/9.5 Mini DIN Male to 4.1/9.5 Mini DIN Male Cable TFT-5G-402 Coax in 12 Inch Using Times Microwave Components



**NOTES:**

1. CABLE ASSY LENGTH LABEL PLACEMENT: CABLES 84" OR LESS, ONE LABEL APPROX CENTERED, LONGER THAN 84 INCHES, TWO LABELS APPROX 12 INCHES FROM EACH CONNECTOR.
2. PIM LEVEL LABEL PLACEMENT: APPROX 6 INCHES FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
4. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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<p><b>Fairview Microwave</b> an INFINIT® brand</p> <p>Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE SHEET: 1 OF 1</p>												
<p>DESCRIPTION: LOW PIM 4.1/9.5 MINI DIN MALE TO 4.1/9.5 MINI DIN MALE CABLE TFT-5G-402 COAX USING TIMES MICROWAVE COMPONENTS</p>														
<p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:          .X = ±.2 [5]          .XX = ±.02 [0.5]          .XXX = ±.005 [0.13]          FRACTIONS: ± 1/32          ANGLES ± 1°</p> <p>CABLE LENGTH TOLERANCES:          &lt;12 [305] ≤ 60 [1524] = ±1 [25] / -0          &gt;60 [1524] ≤ 120 [3048] = ±4 [102] / -0          &gt;120 [3048] ≤ 300 [7620] = ±5% [1.5]</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.</p>	<p>SIZE: A CAGE CODE: 3FKR5 DRAWN BY: DMAY</p>	<p>ITEM NO.: FMCA2332</p>												
<p>REVISION</p> <table border="1"> <tr> <th>ZONE</th> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>CHANGED BY</th> <th>APPROVED</th> </tr> <tr> <td></td> <td>D</td> <td>ECO-13624</td> <td>06/12/2024</td> <td>DZINN</td> <td>AGANWANI</td> </tr> </table>		ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED		D	ECO-13624	06/12/2024	DZINN	AGANWANI	<p>REV: D</p>
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