

## N Male to N Female Bulkhead Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components

### FMCA2352



#### Configuration

- Connector 1: N Male
- Connector 2: N Female Bulkhead
- Cable Type: TFT-5G-402
- 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 type N male to type N female bulkhead cable using TFT-5G-402 coax, part number FMCA2352, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to female 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 FMCA2352 type N male to type N female cable assembly operates to 5.8 GHz. Our RF cable assembly with type N bulkhead 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.) | 0.07 | 0.08 | 0.11 | 0.2  | 0.3  | dB/ft |
|                       | 0.23 | 0.26 | 0.36 | 0.66 | 0.98 | dB/m  |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as  $0.1 \cdot \sqrt{FGHz}$  dB for the male connector and 0.1 dB for the female connector.

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.808 in [20.52 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]

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**Connectors**

| Description                           | Connector 1      | Connector 2                 |
|---------------------------------------|------------------|-----------------------------|
| Type                                  | N Male           | N Female Bulkhead           |
| Impedance                             | 50 Ohms          | 50 Ohms                     |
| Configuration                         | Straight         | Straight                    |
| Mating Cycles                         | 500              |                             |
| Contact Material and Plating          | Brass, Silver    | Brass, Copper Clad Aluminum |
| Contact Plating Specification         | 200 µin          | 3 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, Tri-Metal | Brass, Copper Clad Aluminum |
| Body Plating Specification            | 80 µin           | 3 µm                        |
| Coupling Nut Material and Plating     | Brass, Tri-Metal |                             |
| Coupling Nut Plating Specification    | 80 µin           |                             |
| Torque                                | 15 in-lbs 1.7 Nm | 10 in-lbs 1.13 Nm           |

**Environmental Specifications**

Operating Range Temperature -40 to +125 deg C

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

**Plotted and Other Data**

Notes:

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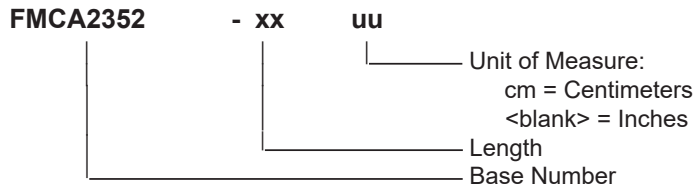


**FMCA2352**

**Typical Performance Data**

**How to Order**

Part Number Configuration:



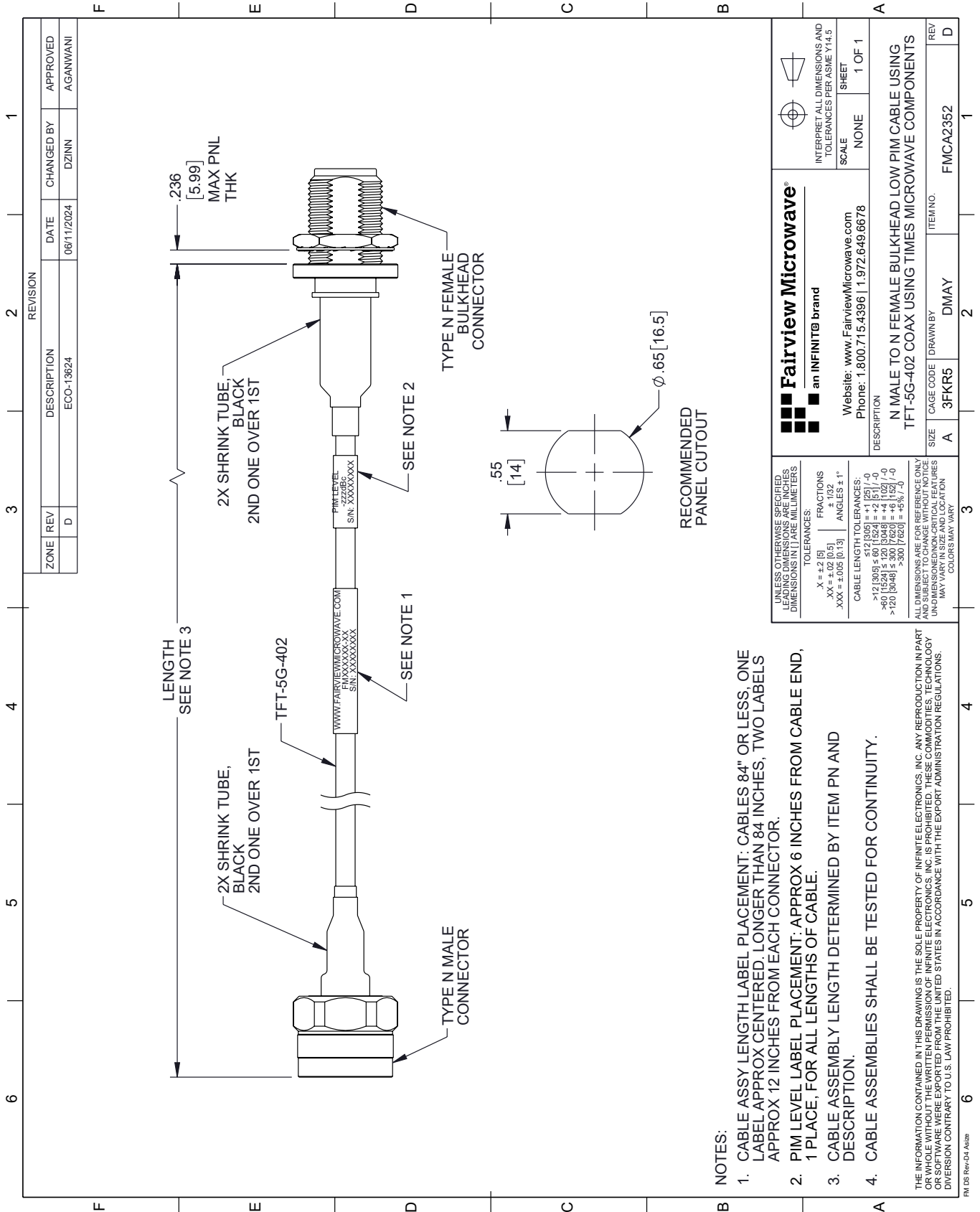
Example: FMCA2352-12 = 12 inches long cable  
FMCA2352-100cm = 100 cm long cable

N Male to N Female Bulkhead Low PIM Cable 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: [N Male to N Female Bulkhead Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components FMCA2352](#)

URL: <https://www.fairviewmicrowave.com/low-pim-n-male-to-n-female-bulkhead-cable-tft-5g-402-coax-using-times-microwave-components-fmca2352-p.aspx>

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**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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