

## Low PIM 2.2-5 Female to 4.3-10 Female Bulkhead Cable 1/4 inch Superflexible Coax in 200 CM

The 2.2-5 female to 4.3-10 female bulkhead 200 cm cable using 1/4 inch superflexible coax, part number FMCA2370-200CM, from Fairview Microwave is in-stock and ships same day. This Fairview 2.2-5 to 4.3-10 cable assembly has a female to female gender configuration with 50 ohm corrugated 1/4" superflexible coax. Fairview Microwave's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The FMCA2370-200CM 2.2-5 female to 4.3-10 female cable assembly operates to 6 GHz. Our RF cable assembly with 4.3-10 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.

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                   | Min | Typ          | Max   | Units                            |
|-------------------------------|-----|--------------|-------|----------------------------------|
| Frequency Range               | DC  |              | 6     | GHz                              |
| VSWR                          |     |              | 1.4:1 |                                  |
| Velocity of Propagation       |     | 82           |       | %                                |
| RF Shielding                  | 120 |              |       | dB                               |
| Passive Intermodulation       |     |              | -160  | dBc                              |
| Capacitance                   |     | 24.4 [80.05] |       | pF/ft [pF/m]                     |
| Inductance                    |     | 0.059 [0.19] |       | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |     | 3.2 [10.5]   |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 2.53 [8.3]   |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |     |              | 2,000 | Vrms                             |

### Performance by Frequency

| Description           | F1   | F2   | F3  | F4   | F5   | Units |
|-----------------------|------|------|-----|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5 | 1    | 3    | GHz   |
| Insertion Loss (Typ.) | 0.27 | 0.34 | 0.4 | 0.53 | 0.86 | 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 0.2dB of connector loss.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 78.74 in [200 cm]  |
| Diameter | 1.02 in [25.91 mm] |



### Configuration:

- 2.2-5 Female
- 4.3-10 Female Bulkhead
- 1/4" Superflexible

### Features:

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 120 dB
- 82% Phase Velocity
- PE Jacket
- Low PIM and Low Loss
- 100% Tested with PIM Test Results Marked on Cable

### Applications:

- General Purpose
- Laboratory Use
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- PIM Testing

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Cable**

|                                      |                                  |
|--------------------------------------|----------------------------------|
| Cable Type                           | 1/4" Superflexible               |
| Impedance                            | 50 Ohms                          |
| Inner Conductor Type                 | Solid                            |
| Inner Conductor Material and Plating | Copper Clad Aluminum             |
| Dielectric Type                      | PE (F)                           |
| Number of Shields                    | 1                                |
| Shield Layer 1                       | Helically Corrugated Copper Tube |
| Jacket Material                      | PE, Black                        |
| Jacket Diameter                      | 0.303 in [7.7 mm]                |

|                              |                   |
|------------------------------|-------------------|
| One Time Minimum Bend Radius | 0.5 in [12.7 mm]  |
| Repeated Minimum Bend Radius | 1 in [25.4 mm]    |
| Typical Flex Cycles          | 20                |
| Tensile Strength             | 79 lbs [35.83 Kg] |

**Connectors**

| Description                   | Connector 1      | Connector 2       |
|-------------------------------|------------------|-------------------|
| Type                          | 2.2-5 Female     | 4.3-10 Female     |
| Mount Method                  |                  | Bulkhead          |
| Impedance                     | 50 Ohms          | 50 Ohms           |
| Contact Material & Plating    | Bronze, Silver   | Bronze, Silver    |
| Dielectric Type               | PTFE             | PTFE              |
| Outer Cond Material & Plating | Bronze, Silver   | Bronze, Tri-Metal |
| Body Material & Plating       | Brass, Tri-Metal | Brass, Tri-Metal  |

**Environmental Specifications**
**Temperature**

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
|-----------------|------------------|

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA2370 - xx uu**


Example: FMCA2370-12 = 12 inches long cable  
 FMCA2370-100cm = 100 cm long cable

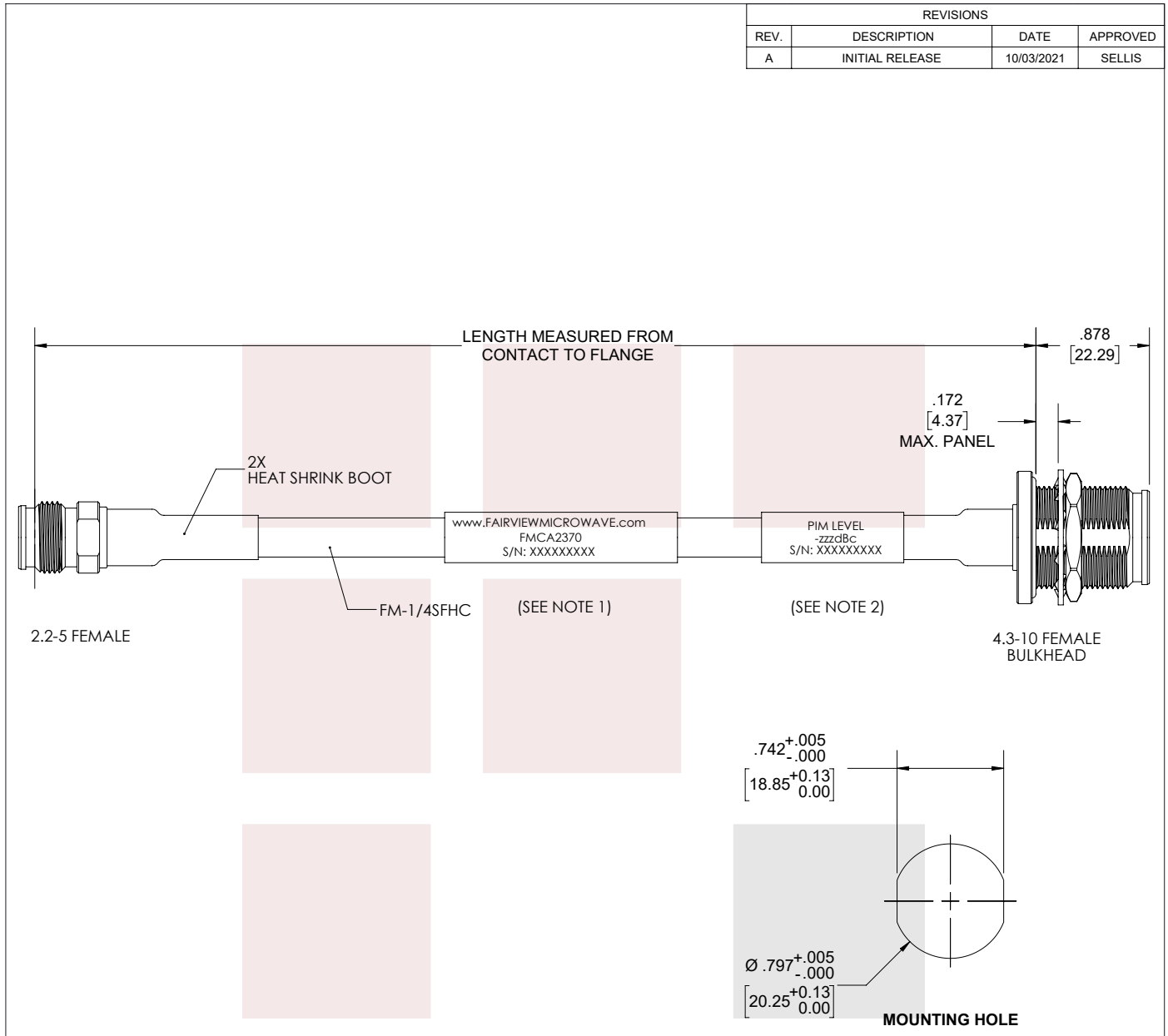
Low PIM 2.2-5 Female to 4.3-10 Female Bulkhead Cable 1/4 inch Superflexible Coax in 200 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low PIM 2.2-5 Female to 4.3-10 Female Bulkhead Cable 1/4 inch Superflexible Coax in 200 CM FMCA2370-200CM](https://www.fairviewmicrowave.com/low-pim-2.2-5-female-4.3-10-female-cable-fm-1-4-sfhc-coax-fmca2370-200cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-2.2-5-female-4.3-10-female-cable-fm-1-4-sfhc-coax-fmca2370-200cm-p.aspx>

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**NOTES:**

- CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12.0" FROM THE END OF THE CONNECTOR.
- 6" FROM CABLE END 1 PLACE FOR ALL LENGTHS OF CABLE.

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| <p>Low PIM 2.2-5 Female to 4.3-10 Female Bulkhead<br/>Cable 1/4 inch Superflexible Coax in 200 CM</p> |                 | <p>CABLE LENGTH (L) TOLERANCES:</p>                                                                   |                   | <p>SHEET 1 OF 1</p>                                                                                                        |  |
| <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>                                                   |                 | <p>SCALE N/A</p>                                                                                      |                   | <p>REV A</p>                                                                                                               |  |
| SIZE A                                                                                                | CAGE CODE 3FKR5 | DRAWN BY MVEERAPPAN                                                                                   | ITEM NO. FMCA2370 |                                                                                                                            |  |

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