

## Low PIM RA 4.3-10 Male to RA 4.3-10 Male Plenum Cable SPP-250-LLPL Coax in 150 CM

Low PIM RA 4.3-10 male to RA 4.3-10 male in 100cm part number FMCA1321-100CM from Fairview Microwave is in-stock and ships same day. This low PIM RA 4.3-10 male to RA 4.3-10 male in 100cm plenum coax cable assembly offers low PIM performance to support Distributed Antenna Systems (DAS), in-building wireless and other emerging mobile communication networks. The SPP-250-LLPL coax cable carries a UL910 rating for plenum installations. Each low PIM RA 4.3-10 male to RA 4.3-10 male in 100cm cable assembly is marked with its actual Passive Intermodulation (PIM) test result.

Fairview's FMCA1321-100CM datasheet specifications and outline drawing are shown below in this PDF. Our extensive offering of low PIM cable assemblies, low-PIM adapters and other RF products support multi-carrier system prototype, cable installations and PIM testing applications.

### Electrical Specifications

| Description             | Min | Typ         | Max    | Units        |
|-------------------------|-----|-------------|--------|--------------|
| Frequency Range         | DC  |             | 6      | GHz          |
| VSWR                    |     |             | 1.35:1 |              |
| Velocity of Propagation |     | 76          |        | %            |
| RF Shielding            | 100 |             |        | dB           |
| Passive Intermodulation |     | -165        | -160   | dBc          |
| Capacitance             |     | 26.7 [87.6] |        | pF/ft [pF/m] |
| Operating Voltage (AC)  |     |             | 750    | Vrms         |

### Performance by Frequency

| Description           | F1     | F2     | F3     | F4     | F5     | Units |
|-----------------------|--------|--------|--------|--------|--------|-------|
| Frequency             | 0.5    | 1      | 2      | 4      | 6      | GHz   |
| Insertion Loss (Max.) | 0.6    | 0.68   | 0.8    | 1      | 1.13   | dB    |
| VSWR (Max.)           | 1.25:1 | 1.25:1 | 1.25:1 | 1.35:1 | 1.35:1 |       |
| Power Handling (Max.) | 850    | 507    | 460    | 370    | 250    | W     |

Electrical Specification Notes:

Values at 25°C, sea level

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated loss of 0.4dB of connector loss.

### Mechanical Specifications

#### Cable Assembly

Length\* 59.06 in [150.01 cm]

#### Cable

Cable Type SPP-250-LLPL  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Bare



### Configuration:

- 4.3-10 Male Right Angle
- 4.3-10 Male Right Angle
- SPP-250-LLPL

### Features:

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- Low PIM < -160 dBc
- IP67 (Mated)
- Low Loss with Excellent VSWR
- PIM Test Results Marked on Each Cable
- UL910 Plenum Rated Cable
- Extremely Flexible and Light-weight

### Applications:

- General Purpose
- Laboratory Use
- Low PIM Applications
- DAS
- Mobile Networks
- In-Building Wireless
- Small Cells
- PIM Testing

### Cable Diagram:

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[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

|                              |                                |
|------------------------------|--------------------------------|
| Dielectric Type              | PTFE                           |
| Number of Shields            | 1                              |
| Shield Layer 1               | Annular Corrugated Copper Tube |
| Outer Conductor Diameter     | 0.25 in [6.35 mm]              |
| Jacket Material              | FEP                            |
| Jacket Diameter              | 0.28 in [7.11 mm]              |
| One Time Minimum Bend Radius | 1.5 in [38.1 mm]               |

### Connectors

| Description                | Connector 1      | Connector 2      |
|----------------------------|------------------|------------------|
| Type                       | 4.3-10 Male      | 4.3-10 Male      |
| Impedance                  | 50 Ohms          | 50 Ohms          |
| Contact Material & Plating | Brass, Silver    | Brass, Silver    |
| Dielectric Type            | PTFE             | PTFE             |
| Body Material & Plating    | Brass, Tri-Metal | Brass, Tri-Metal |
| Seal Gasket Material       | Silicone Rubber  | Silicone Rubber  |

### Environmental Specifications

#### Temperature

|                 |                   |
|-----------------|-------------------|
| Operating Range | -55 to +125 deg C |
| Plenum Rating   | UL910             |

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

### Plotted and Other Data

#### Notes:

- Values at 25°C, sea level.

### How to Order

Part Number Configuration:

**FMCA1321 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA1321-12 = 12 inches long cable  
 FMCA1321-100cm = 100 cm long cable

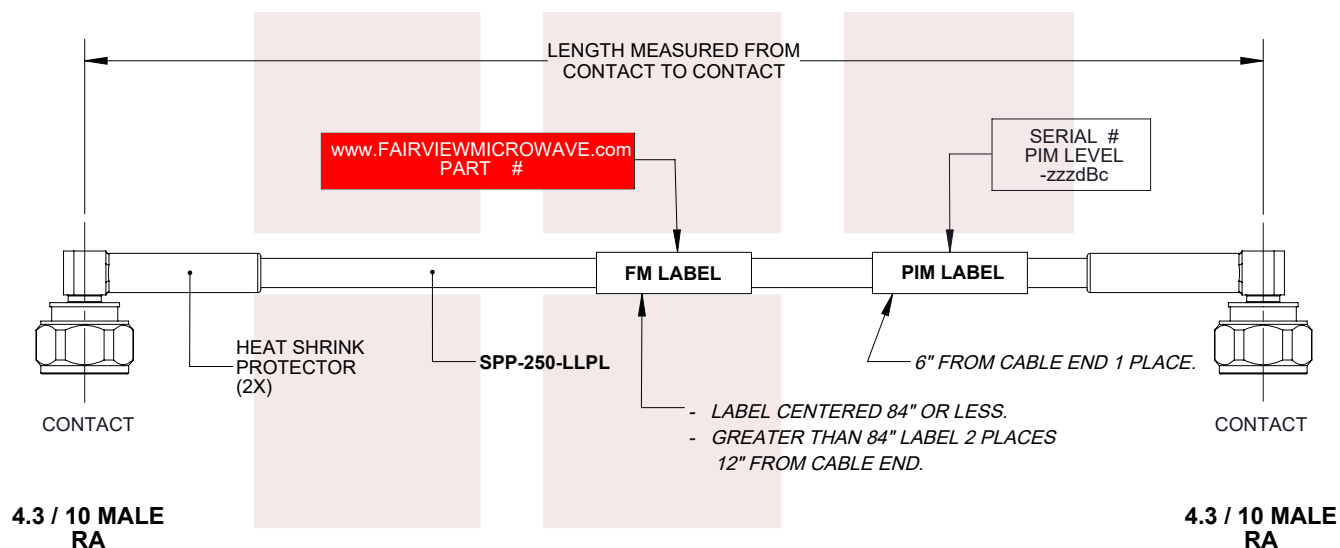
Low PIM RA 4.3-10 Male to RA 4.3-10 Male Plenum Cable SPP-250-LLPL Coax in 150 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low PIM RA 4.3-10 Male to RA 4.3-10 Male Plenum Cable SPP-250-LLPL Coax in 150 CM FMCA1321-150CM](https://www.fairviewmicrowave.com/ra-4.3-10-male-ra-4.3-10-male-cable-spp250llpl-fmca1321-150cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/ra-4.3-10-male-ra-4.3-10-male-cable-spp250llpl-fmca1321-150cm-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.





**STANDARD TOLERANCES**

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

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