

## Low PIM 4.3-10 Female to SMA Male Plenum Cable SPP-250-LLPL Coax in 200 cm with LF Solder

### FMCA1769-200CM



#### Configuration

- Connector 1: 4.3-10 Female
- Connector 2: SMA Male
- Cable Type: SPP-250-LLPL
- Coax Flex Type: Corrugated

#### Features

- Max Frequency 5.8 GHz
- Low PIM: -155 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- IP67 (Mated)
- Low Loss with Excellent VSWR
- PIM Test Results Marked on Each Cable
- UL910 Plenum Rated Cable
- Extremely Flexible and Lightweight



#### Applications

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

#### Description

The 4.3-10 female to SMA male 200 cm cable using SPP-250-LLPL coax, part number FMCA1769-200CM, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to SMA cable assembly has a female to male gender configuration with 50 ohm corrugated SPP-250-LLPL 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 -155 dBc. The FMCA1769-200CM 4.3-10 female to SMA male cable assembly operates to 5.8 GHz.

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                               | 100     |         |         | dB    |
| Passive Intermodulation                    |         |         | -155    | dBc   |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz |         |         |         |       |

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**Electrical Specifications**

| Description                   | Minimum | Typical      | Maximum | Units                 |
|-------------------------------|---------|--------------|---------|-----------------------|
| Capacitance                   |         | 27 [88.58]   |         | pF/ft [pF/m]          |
| Inductance                    |         | 0.067 [0.22] |         | uH/ft [uH/m]          |
| DC Resistance Inner Conductor |         | 3 [9.84]     |         | Ohms/1000ft [Ohms/Km] |

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.45 | 0.7  | 1    | 2.5  | 5.8  | GHz   |
| Insertion Loss (Max.) | 0.31 | 0.39 | 0.46 | 0.75 | 1.17 | dB    |

Electrical Specification Notes:

The insertion loss data above is based on the performance specifications of the coax cable used in this assembly. The insertion loss includes an estimated insertion loss of  $0.04 \cdot \sqrt{\text{FGHz}}$  dB maximum per connector.

**Mechanical Specifications**

**Cable Assembly**

|        |                      |
|--------|----------------------|
| Length | 78.7402 in [200 cm]  |
| Weight | 0.583 lbs [264.44 g] |

**Cable**

|  |                       |
|--|-----------------------|
| Cable Type                             | SPP-250-LLPL          |
| Impedance                              | 50 Ohms               |
| Inner Conductor Type                   | Solid                 |
| Inner Conductor Material and Plating   | Copper                |
| Dielectric Type                        | PTFE                  |
| Number of Shields                      | 1                     |
| Outer Conductor 1 Material and Plating | Copper                |
| Jacket Material                        | FEP, Blue             |
| Jacket Diameter                        | 0.28 in [7.11 mm]     |
| One Time Minimum Bend Radius           | 1.25 in [31.75 mm]    |
| Bending Moment                         | 0.8 lbs-ft [1.08 N-m] |

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Connectors

| Description                          | Connector 1                | Connector 2      |
|--------------------------------------|----------------------------|------------------|
| Type                                 | 4.3-10 Female              | SMA Male         |
| Impedance                            | 50 Ohms                    | 50 Ohms          |
| Configuration                        | Straight                   | Straight         |
| Contact Material and Plating         | Phosphor Bronze, Silver    | Brass, Gold      |
| Dielectric Type                      | PTFE                       | PTFE             |
| Outer Conductor Material and Plating | Phosphor Bronze, Tri-Metal |                  |
| Body Material and Plating            | Brass, Tri-Metal           | Brass, Tri-Metal |
| Coupling Nut Material and Plating    |                            | Brass, Tri-Metal |

Environmental Specifications

Operating Range Temperature-55 to +165 deg C

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

Plotted and Other Data

Notes:

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#### Typical Performance Data



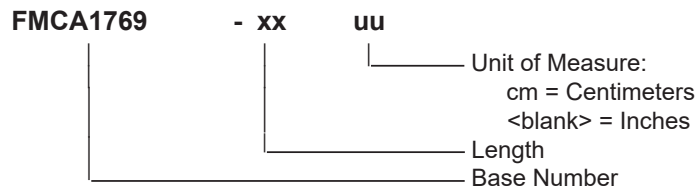
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### FMCA1769-200CM

#### How to Order

Part Number Configuration:



Example: FMCA1769-12 = 12 inches long cable  
FMCA1769-100cm = 100 cm long cable

Low PIM 4.3-10 Female to SMA Male Plenum Cable SPP-250-LLPL Coax in 200 cm with LF Solder 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 4.3-10 Female to SMA Male Plenum Cable SPP-250-LLPL Coax in 200 cm with LF Solder FMCA1769-200CM](https://www.fairviewmicrowave.com/4.3-10-female-sma-male-cable-spp250llpl-coax-fmca1769-200cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/4.3-10-female-sma-male-cable-spp250llpl-coax-fmca1769-200cm-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

FMCA1769-200CM CAD Drawing

Low PIM 4.3-10 Female to SMA Male Plenum Cable SPP-250-LLPL Coax in 200 cm with LF Solder

