

## Low PIM 4.3-10 Male to QMA Male Plenum Cable SPP-250-LLPL Coax with LF Solder

### FMCA1795



#### Configuration

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

#### Features

- Max Frequency 5.8 GHz
- Low PIM: -150 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 male to QMA male cable using SPP-250-LLPL coax, part number FMCA1795, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to QMA cable assembly has a male 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 -150 dBc. The FMCA1795 4.3-10 male to QMA 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                    |         |         | -150    | 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.) | 0.038 | 0.048 | 0.057 | 0.094 | 0.148 | dB/ft |
|                       | 0.12  | 0.16  | 0.19  | 0.31  | 0.49  | dB/m  |

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors. Insertion loss is estimated as  $0.04 \cdot \sqrt{\text{FGHz}}$  dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Length 0 in [0 mm]

**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]

**Connectors**

| Description                          | Connector 1      | Connector 2                |
|--------------------------------------|------------------|----------------------------|
| Type                                 | 4.3-10 Male      | QMA Male                   |
| Impedance                            | 50 Ohms          | 50 Ohms                    |
| Configuration                        | Straight         | Straight                   |
| Contact Material and Plating         | Brass, Silver    | Brass, Silver              |
| 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 | Brass, Tri-Metal           |

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#### Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data



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### FMCA1795



#### How to Order

Part Number Configuration:

**FMCA1795**

**- xx**

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Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: FMCA1795-12 = 12 inches long cable  
FMCA1795-100cm = 100 cm long cable

Low PIM 4.3-10 Male to QMA Male Plenum Cable SPP-250-LLPL Coax 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 Male to QMA Male Plenum Cable SPP-250-LLPL Coax with LF Solder FMCA1795](#)

URL: <https://www.fairviewmicrowave.com/4.3-10-male-qma-male-cable-spp250llpl-coax-fmca1795-p.aspx>

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FMCA1795 CAD Drawing
Low PIM 4.3-10 Male to QMA Male Plenum Cable SPP-250-LLPL Coax with LF Solder

