

## Low Loss SMA Male to RA Push-On SMP Female Cable LMR-100 Coax in 200 CM

The SMA male to RA SMP female push-on 200 cm cable using LMR-100 coax, part number FMC00276-200CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMP cable assembly has a male to female gender configuration with 50 ohm flexible LMR-100A coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00276-200CM SMA male to SMP female cable assembly operates to 3 GHz. The right angle SMP interface on the LMR-100A cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 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                   | Min | Typ           | Max   | Units                            |
|-------------------------------|-----|---------------|-------|----------------------------------|
| Frequency Range               | DC  |               | 3     | GHz                              |
| VSWR                          |     |               | 1.4:1 |                                  |
| Velocity of Propagation       |     | 66            |       | %                                |
| RF Shielding                  | 90  |               |       | dB                               |
| Group Delay                   |     | 1.54 [5.05]   |       | ns/ft [ns/m]                     |
| Capacitance                   |     | 30.8 [101.05] |       | pF/ft [pF/m]                     |
| Inductance                    |     | 0.077 [0.25]  |       | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |     | 81 [265.75]   |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 9.5 [31.17]   |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |     |               | 2,000 | Vrms                             |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 3    | GHz   |
| Insertion Loss (Typ.) | 1.05 | 1.38 | 1.87 | 2.91 | 3.15 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 78.74 in [200 cm]  |
| Diameter | 0.312 in [7.92 mm] |



### Configuration:

- SMA Male
- Push-OnSMP Female Right Angle
- LMR-100A

### Features:

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

### Applications:

- General Purpose
- Laboratory Use

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**Cable**

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | LMR-100A            |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Solid               |
| Inner Conductor Material and Plating | Copper Clad Steel   |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 2                   |
| Shield Layer 1                       | Aluminum Tape       |
| Shield Layer 2                       | Tinned Copper Braid |
| Jacket Material                      | PVC, Black          |
| Jacket Diameter                      | 0.11 in [2.79 mm]   |

|                              |                        |
|------------------------------|------------------------|
| One Time Minimum Bend Radius | 0.25 in [6.35 mm]      |
| Repeated Minimum Bend Radius | 1 in [25.4 mm]         |
| Bending Moment               | 0.1 lbs-ft [0.14 N-m]  |
| Flat Plate Crush             | 10 lbs/in [0.18 Kg/mm] |
| Tensile Strength             | 15 lbs [6.8 Kg]        |

**Connectors**

| Description                     | Connector 1      | Connector 2            |
|---------------------------------|------------------|------------------------|
| Type                            | SMA Male         | SMP Female             |
| Specification                   | MIL-STD-348A     | MIL-STD-348A           |
| Impedance                       | 50 Ohms          | 50 Ohms                |
| Connection Method               |                  | Push-On                |
| Contact Material & Plating      | Brass, Gold      | Beryllium Copper, Gold |
| Contact Plating Spec.           | 50 µin minimum   | 30µ in. minimum        |
| Dielectric Type                 | PTFE             | PTFE                   |
| Outer Cond Material & Plating   |                  | Beryllium Copper, Gold |
| Outer Cond Plating Spec.        |                  | 3µ in. minimum         |
| Body Material & Plating         | Brass, Nickel    | Brass, Gold            |
| Body Plating Spec.              | 100 µin minimum  | 3µ in. minimum         |
| Coupling Nut Material & Plating | Brass, Nickel    |                        |
| Coupling Nut Plating Spec.      | 100 µin minimum  |                        |
| Hex Size                        | 5/16 inch        |                        |
| Torque                          | 3 in-lbs 0.34 Nm |                        |

**Environmental Specifications**
**Temperature**

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
| Storage Range   | -70 to +85 deg C |

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

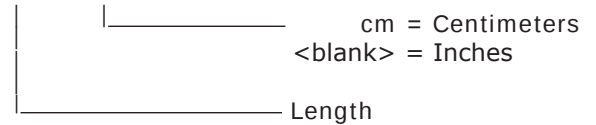
**Plotted and Other Data**

Notes:

## How to Order

Part Number Configuration:

**FMC00276 - xx uu**



Example: FMC00276-12 = 12 inches long cable  
FMC00276-100cm = 100 cm long cable

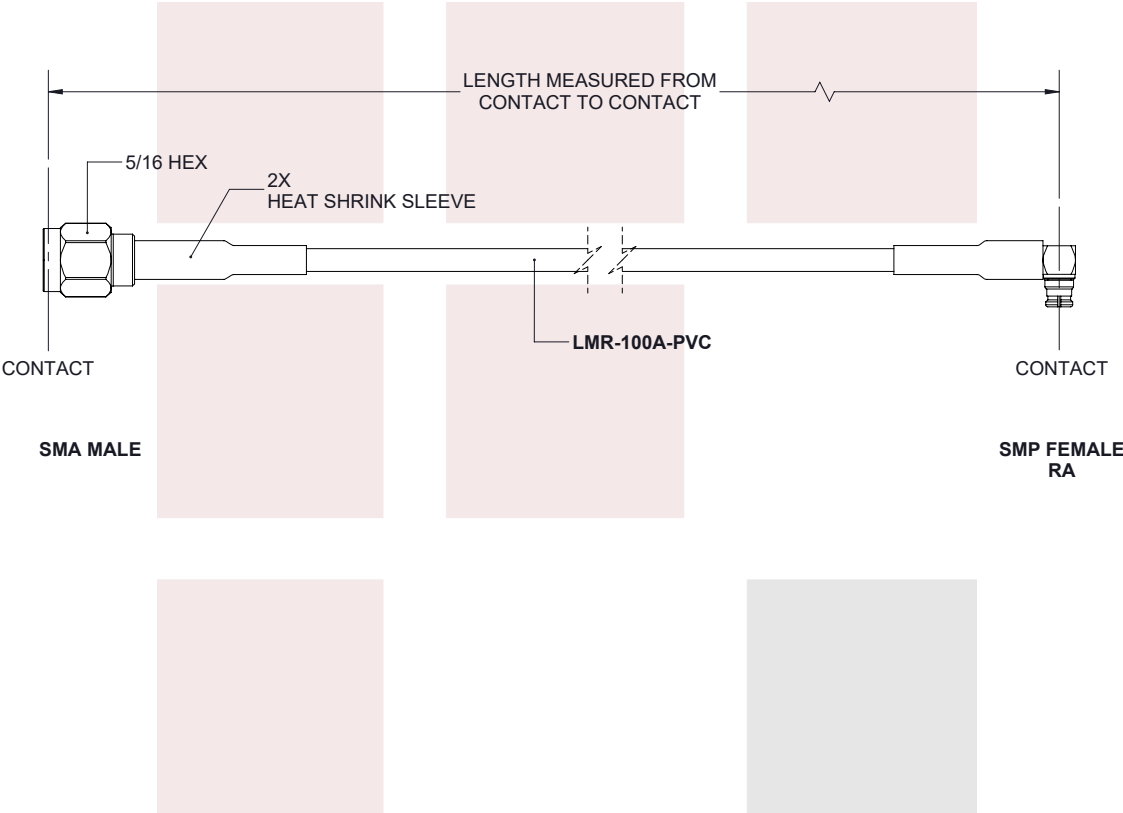
Low Loss SMA Male to RA Push-On SMP Female Cable LMR-100 Coax in 200 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss SMA Male to RA Push-On SMP Female Cable LMR-100 Coax in 200 CM FMC00276-200CM](https://www.fairviewmicrowave.com/low-loss-sma-male-ra-smp-female-cable-lmr100-coax-fmc00276-200cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-sma-male-ra-smp-female-cable-lmr100-coax-fmc00276-200cm-p.aspx>

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| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 2/18/2020 | S.ELLIS  |



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| TITLE<br><br>Low Loss SMA Male to RA Push-On SMP Female Cable<br>LMR-100 Coax in 200 CM                                                |  | TOLERANCES:                                                                                                                                                                                                                                                                                               |  | CABLE LENGTH (L) TOLERANCES:                                                                                        |  |
|                                                                                                                                        |  | .X = ±.2 [ .51 ]    FRACTIONS    L ≤ 12 [305] = +1 [25] / -0<br>.XX = ±.02 [ .51 ]    ± 1/32    12 [305] < L ≤ 60 [1524] = +2 [51] / -0<br>.XXX = ±.005 [ .13 ]    ANGLES ± 1°    60 [1524] < L ≤ 120 [3048] = +4 [102] / -0<br>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0<br>300 [7620] < L = +5%L / -0 |  | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. |  |
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|                                                                                                                                        |  | SIZE A    CAGE CODE 3FKR5    DRAWN BY K.DANG    ITEM NO. FMC00276                                                                                                                                                                                                                                         |  | SCALE N/A                                                                                                           |  |
|                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                           |  | REV A                                                                                                               |  |

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