

## SMA Male Connector Crimp/Solder Attachment for LMR-100A-PVC Cable

### Times Microwave Systems Connector Specification

SMA Male Standard Connector Crimp/Solder Attachment for LMR-100, PE-C100, RG174, RG188 and RG316 Cable, part number SC-100-SM, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 6 GHz.

Fairview's SMA male connector SC-100-SM datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

### Electrical Specifications

| Description            | Min   | Typ | Max  | Units |
|------------------------|-------|-----|------|-------|
| Frequency Range        | DC    |     | 6    | GHz   |
| Insertion Loss         |       |     | 0.25 | dB    |
| Operating Voltage (AC) |       |     | 375  | Vrms  |
| DWV (AC)               |       |     | 500  | Vrms  |
| Insulation Resistance  | 5,000 |     |      | MOhms |

### Performance by Frequency

| Description | F1      | F2     | F3 | F4 | F5 | Units |
|-------------|---------|--------|----|----|----|-------|
| Freq. Range | DC to 3 | 3 to 5 |    |    |    | GHz   |
| VSWR, Max   | 1.2:1   | 1.3:1  |    |    |    |       |

### Mechanical Specifications

#### Size

|                       |                                  |
|-----------------------|----------------------------------|
| Length                | 1 in [25.4 mm]                   |
| Width/Dia.            | 0.315 in [8.00 mm]               |
| Height                | 0.315 in [8 mm]                  |
| Weight                | 0.0095 lbs [4.31 g]              |
| Mating Cycles         | 500 Cycles                       |
| Mating Torque         | 7 to 10 in-lbs [0.79 to 1.13 Nm] |
| Cable Retention Force | 20 lbs [9.07 kg]                 |

### Material Specifications

| Description | Material | Plating           |
|-------------|----------|-------------------|
| Contact     | Brass    | Gold<br>15 µin    |
| Insulation  | PTFE     |                   |
| Body        | Brass    | Nickel<br>200 µin |



### Configuration:

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-100, PE-C100, RG174, RG188, RG316 Interface Type
- Crimp/Solder Attachment

### Features:

- Operating Frequency of 6 GHz Max.
- Gold Plated Brass Contact
- 15 µin contact plating

### Applications:

- General Purpose Test
- Custom Cable Assemblies

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|              |       |                   |
|--------------|-------|-------------------|
| Coupling Nut | Brass | Nickel<br>200 µin |
|--------------|-------|-------------------|

**Environmental Specifications**

**Temperature**

|                 |                                  |
|-----------------|----------------------------------|
| Operating Range | -40 to 125 deg C                 |
| Shock           | MIL-STD 202G, Meth. 213, Cond. I |
| Vibration       | MIL-STD 202G, Meth. 204, Cond. D |
| Thermal Shock   | MIL-STD 202G, Meth. 107, Cond. B |

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

**Plotted and Other Data**

Notes:

SMA Male Connector Crimp/Solder Attachment for LMR-100A-PVC Cable 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: [SMA Male Connector Crimp/Solder Attachment for LMR-100A-PVC Cable SC-100-SM](#)

URL: <https://www.fairviewmicrowave.com/sma-male-lmr-100a-pvc-connector-sc-100-sm-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.

