

## SMA Male Low PIM Connector Solder Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Cable

SMA male connector with solder/solder attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250 and SPF-250, part number FMCN1718, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 6 GHz. The SMA male connector also has low passive intermodulation (PIM) of -155 dBc.

Fairview's SMA male connector FMCN1718 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   |
| Passive Intermodulation |     |     | -155 | dBc   |
| DWV (AC)                |     |     | 750  | Vrms  |

### Performance by Frequency

| Description | F1      | F2     | F3 | F4 | F5 | Units |
|-------------|---------|--------|----|----|----|-------|
| Freq. Range | DC to 3 | 3 to 6 |    |    |    | GHz   |
| VSWR, Max   | 1.15:1  | 1.25:1 |    |    |    |       |

### Mechanical Specifications

|            |                    |
|------------|--------------------|
| Size       |                    |
| Length     | 0.84 in [21.34 mm] |
| Width/Dia. | 0.35 in [8.89 mm]  |
| Weight     | 0.02 lbs [9.07 g]  |

### Material Specifications

| Description  | Material | Plating   |
|--------------|----------|-----------|
| Contact      | Brass    | Silver    |
| Insulation   | PTFE     |           |
| Body         | Brass    | Tri-Metal |
| Coupling Nut | Brass    | Tri-Metal |
| O-Ring       | Silicone |           |



### Configuration:

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Interface Type
- Solder/Solder Attachment
- Low PIM Design

### Features:

- Operating Frequency of 6 GHz Max.
- PIM levels better than -155 dBc
- Silver Plated Brass Contact

### Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

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## Environmental Specifications

### Temperature

Operating Range -40 to +155 deg C

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

## Plotted and Other Data

Notes:

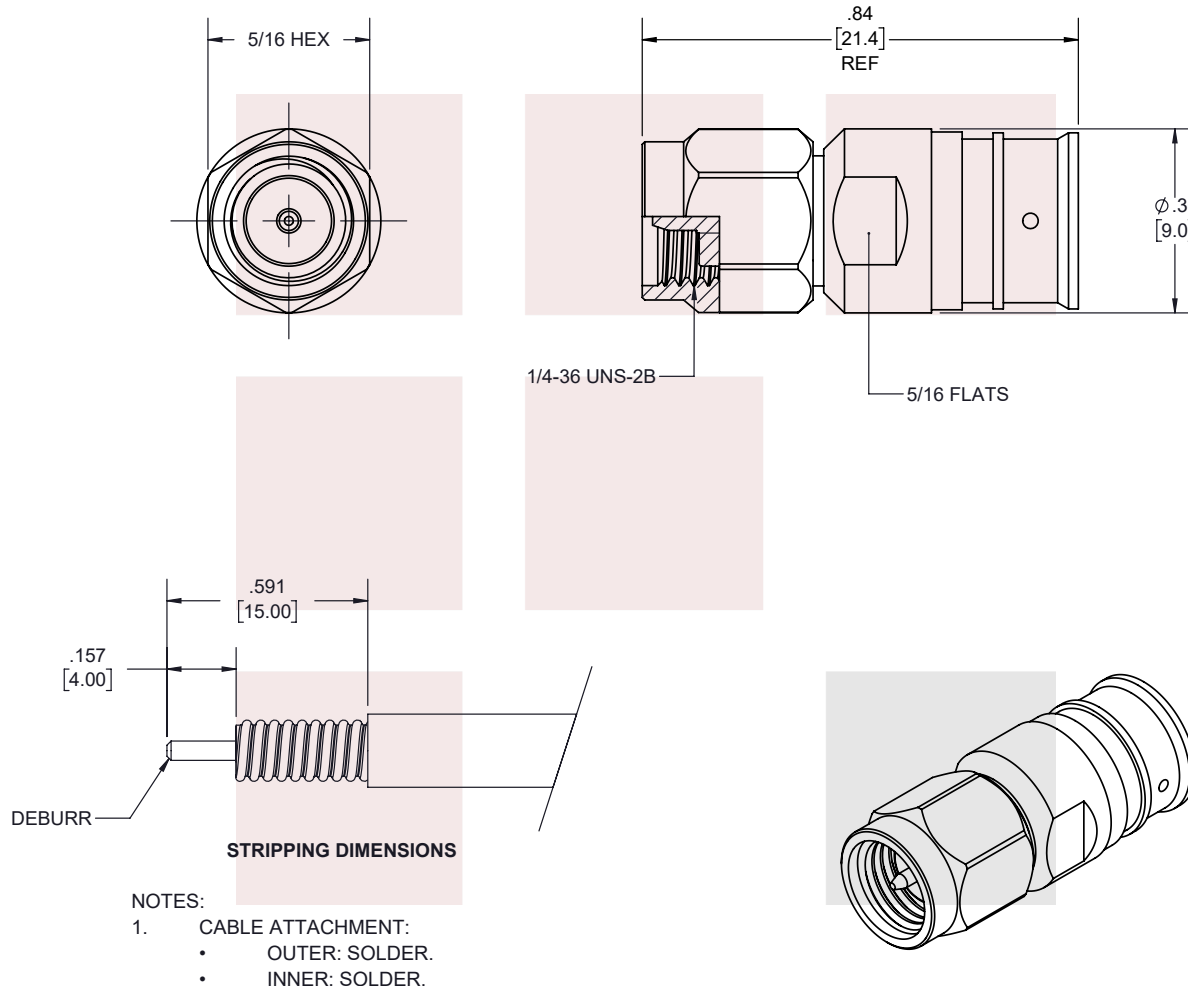
SMA Male Low PIM Connector Solder Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Male Low PIM Connector Solder Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Cable FMCN1718](#)

URL: <https://www.fairviewmicrowave.com/sma-male-spp-250-llpl-spo-250-spf-250-connector-fmcn1718-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.

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 1/13/2021 | S.ELLIS  |



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TITLE

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

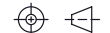
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
|------|-----------|----------|----------|
| A    | 3FKR5     | K.DANG   | FMCN1718 |

REV A

T-Rev.D