

## RA SMP Plug Non-Magnetic Connector Crimp/Solder Attachment for RG316 Cable

RA SMP Female Non-Magnetic Connector Crimp/Solder Attachment for RG316 Cable, part number FMCN45882, from Fairview Microwave is in-stock and ships same day. This SMP female connector operates up to a maximum frequency of 12.4 GHz and offers excellent VSWR of 1.25:1. This blind mate connector is ideal for applications without direct visual or tactile access to the connection point, for example, when two circuit boards need to be mated. Its right angle body geometry facilitates connections in tight spaces. Fairview's Non Magnetic connectors are manufactured with materials that are especially adapted to non magnetism. Our non-magnetic connectors have a susceptibility of around  $10^{-5}$ , as opposed to  $10^{-2}$  for standard connectors made of brass/nickel materials. As a result, our non-magnetic connectors are transparent to the magnetic field, which means no field distortion and a higher Signal-to-Noise Ratio (SNR).

Fairview's RA SMP female connector FMCN45882 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		12.4	GHz
VSWR			1.25:1	
Insertion Loss			0.12	dB
Operating Voltage (AC)			250	Vrms
DWV (AC)			750	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	55			dB

### Mechanical Specifications

Size	
Length	0.429 in [10.9 mm]
Width/Dia.	0.207 in [5.26 mm]
Height	0.207 in [5.26 mm]
Weight	0.00108 lbs [0.49 g]
Mating Cycles	500 Cycles

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Copper
Body	Bronze	Copper-Tin-Zinc Alloy



### Configuration:

- SMP Female Connector
- 50 Ohms
- Right Angle Body Geometry
- RG316 Interface Type
- Crimp/Solder Attachment
- Non-Magnetic Design

### Features:

- Operating Frequency of 12.4 GHz Max.
- Excellent VSWR of 1.25:1
- Blind Mate Connector
- Gold over Copper Plated Beryllium Copper Contact
- Magnetic Susceptibility  $10^{-5}$

### Applications:

- General Purpose Test
- Custom Cable Assemblies
- Medical
- Military and Aerospace
- Quantum Computing

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**Environmental Specifications**

**Temperature**

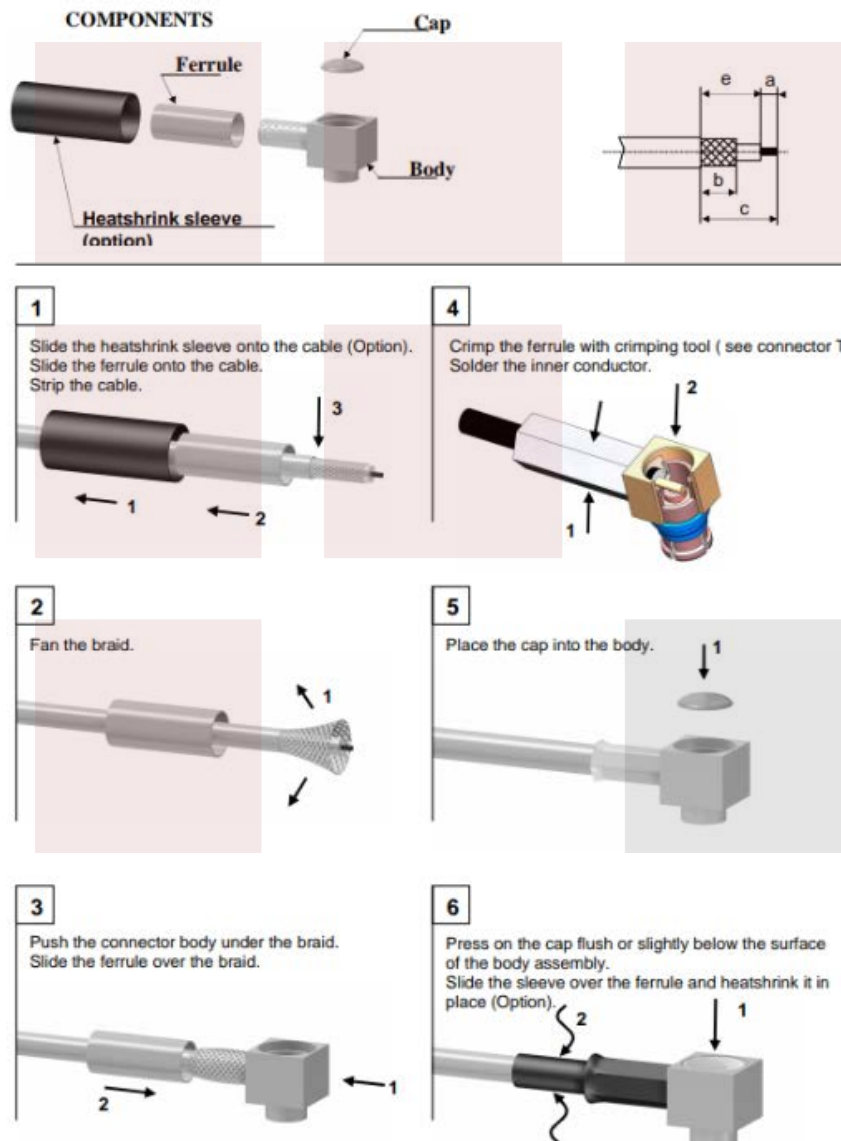
Operating Range -55 to +125 deg C

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

**Plotted and Other Data**

Notes:

**Assembly Instruction**



RA SMP Plug Non-Magnetic Connector Crimp/Solder Attachment for RG316 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: [RA SMP Plug Non-Magnetic Connector Crimp/Solder Attachment for RG316 Cable FMCN45882](#)

URL: <https://www.fairviewmicrowave.com/smp-female-rg316-connector-fmcn45882-p.aspx>

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