

Cable Termination Non-Magnetic Straight PCB Mount for 0.047 Cable

SMP Male Non-Magnetic Connector Solder Attachment for 0.047 cable Cable, part number FMCN45884, from Fairview Microwave is in-stock and ships same day. This SMP male connector operates up to a maximum frequency of 3 GHz. 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. 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 SMP male connector FMCN45884 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		3	GHz
Operating Voltage (AC)			335	Vrms
DWV (AC)			1,000	Vrms

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	0.002 lbs [0.91 g]
Mating Cycles	500 Cycles

Material Specifications

Description	Material	Plating
Body	Bronze	Gold over Copper

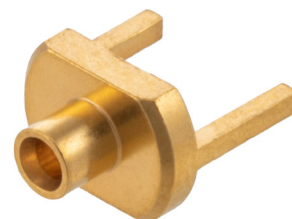
Environmental Specifications

Temperature	
Operating Range	-55 to +155 deg C

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

Plotted and Other Data

Notes:



Configuration:

- SMP Male Connector
- 50 Ohms
- Straight Body Geometry
- 0.047 cable Interface Type
- Solder Attachment
- Non-Magnetic Design

Features:

- Operating Frequency of 3 GHz Max.
- Blind Mate Connector
- Magnetic Susceptibility 10^{-5}

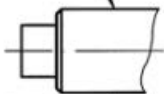
Applications:

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

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Assembly Instruction

CONNECTOR BODY




We recommend a thermal preconditioning cable .

① Strip the cable .

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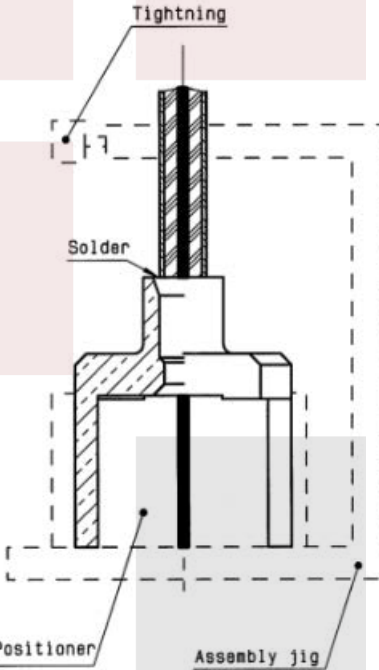


Stripping	a	b	c	d	e
inch	0.157 0		0.197 0	0	
mm	4		5		

② Introduce the cable into the connector body until contact with the body shoulder.

Place the sub assembly into the assembly jig R 282 740 020 (or equivalent) with positionner R 282 863 000 and tighten it.

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Tightning

Solder

Positionner

Assembly jig

③ Solder the body on the cable.

Let the assembly cool down before removing it from the jig .

Clean solder.

Cable Termination Non-Magnetic Straight PCB Mount for 0.047 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: [Cable Termination Non-Magnetic Straight PCB Mount for 0.047 Cable FMCN45884](#)

URL: <https://www.fairviewmicrowave.com/cable-crimp-receptacle-0.047-connector-fmcn45884-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.



