

2.92mm Male Connector Solder Attachment For FM-SR047CU-COIL, FM-SR047CU-STR, FM-SR047ALTN-COIL Cable

2.92mm male connector with solder attachment for FM-SR047CU-COIL, FM-SR047CU-STR and FM-SR047ALTN-COIL, part number FMCN1428, from Fairview Microwave is in-stock and ships same day. This 2.92mm male connector operates up to a maximum frequency of 45 GHz and offers excellent VSWR of 1.14:1.

Fairview's 2.92mm male connector FMCN1428 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		45	GHz
VSWR			1.14:1	
Insertion Loss			0.268	dB
Operating Voltage (AC)			170	Vrms
DWV (AC)			500	Vrms
High Potential Voltage 5 to 7.5 MHz			325	Vrms
Corona Discharge at 70,000 ft			125	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	-90			dB

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 18	18 to 26.5	26.5 to 45			GHz
VSWR, Max	1.1:1	1.12:1	1.14:1			

Electrical Specification Notes:
Insertion loss: $0.04 \times \sqrt{f(\text{GHz})}$ dB.

Mechanical Specifications

Size	
Length	0.54 in [13.72 mm]
Width/Dia.	0.312 in [7.92 mm]
Height	0.35 in [8.89 mm]
Weight	0.006 lbs [2.72 g]
Mating Cycles	500 Cycles
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]



Configuration:

- 2.92mm Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR047CU-COIL, FM-SR-047CU-STR, FM-SR047ALTN-COIL Interface Type
- Solder Attachment
- 5/16 inch Hex

Features:

- Operating Frequency of 45 GHz Max.
- Excellent VSWR of 1.14:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 μ m minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PEI	
Body	Beryllium Copper	Gold over Nickel 50 µin minimum
Coupling Nut	Passivated Stainless Steel	ASTM-A582
Retaining Ring	Beryllium Copper	
Gasket	Silicone Rubber	

Environmental Specifications

Temperature

Operating Range

Shock

Vibration

Thermal Shock

Salt Spray

-65 to +165 deg C

MIL-STD-202, Method 213, Condition I

MIL-STD-202, Method 204, Condition D

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B, 5% salt solution

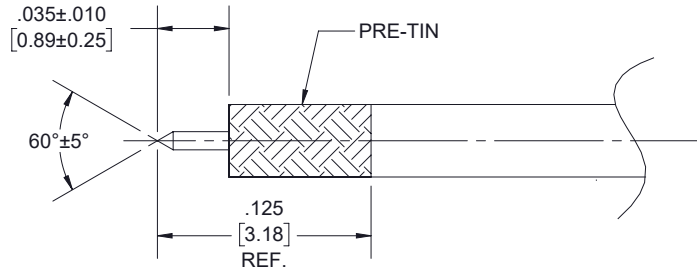
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Assembly Instruction

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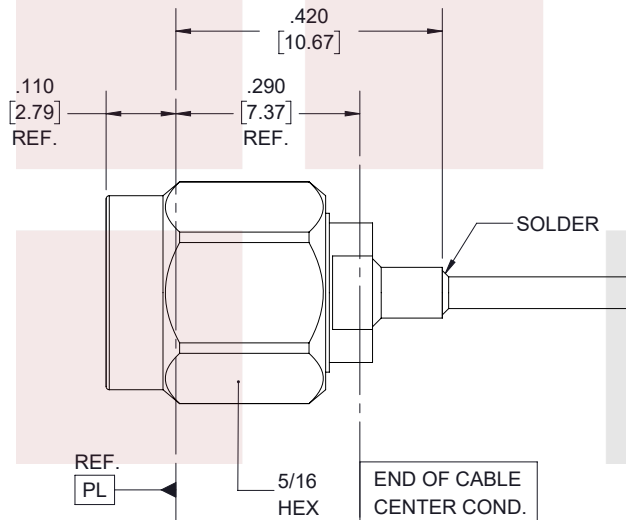


STEP 1:

- PRE-TIN CABLE OUTER JACKET OVER APPROX. LENGTH SHOWN.
- TRIM CABLE TO EXPOSE CENTER CONDUCTOR AS SHOWN.
- POINT CENTER CONDUCTOR AS INDICATED.

STEP 2:

- INSERT CABLE INTO CONNECTOR UNTIL CENTER CONDUCTOR PLUGS IN AND CABLE SEATS IN CONNECTOR BORE.
- SOLDER CABLE JACKET TO BODY WHERE SHOWN APPLYING HEAT TO EXTENDED BODY TAIL.

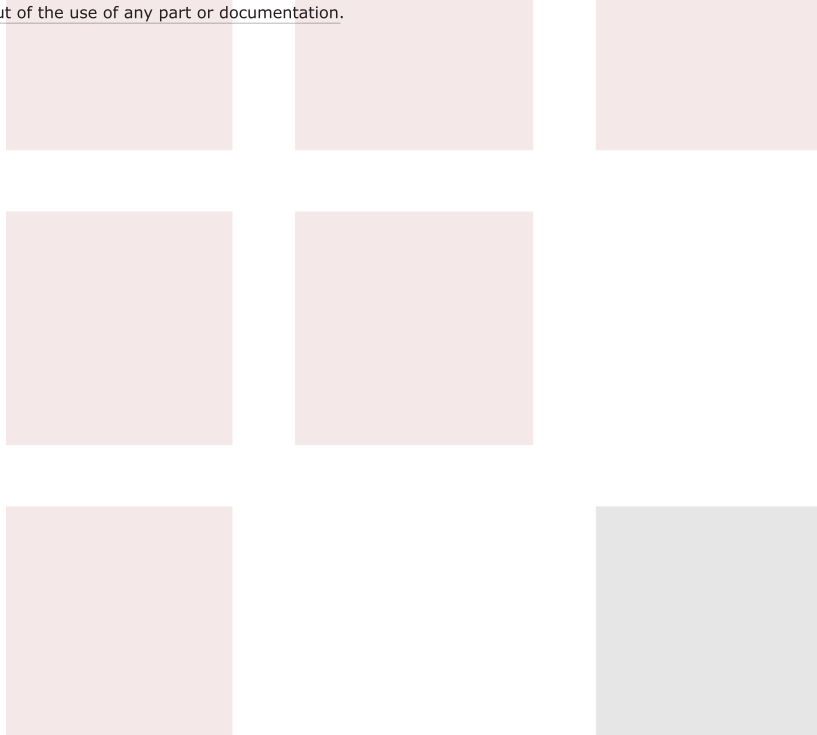


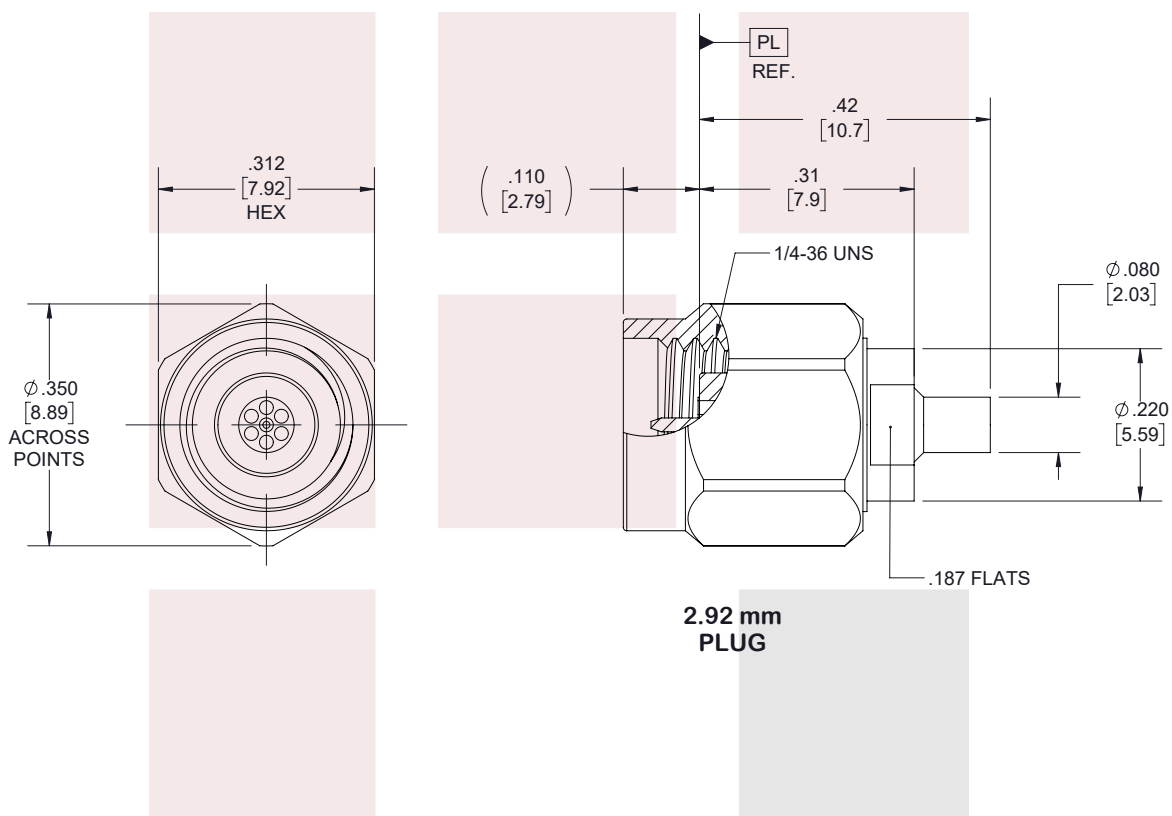
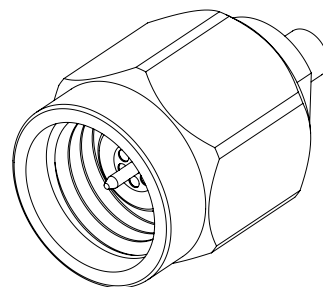
2.92mm Male Connector Solder Attachment For FM-SR047CU-COIL, FM-SR047CU-STR, FM-SR047ALTN-COIL Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2.92mm Male Connector Solder Attachment For FM-SR047CU-COIL, FM-SR047CU-STR, FM-SR047ALTN-COIL Cable FMCN1428](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-male-fm-sr047cu-coil-fm-sr047cu-str-fm-sr047altn-coil-connector-fmcn1428-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.





STANDARD TOLERANCES

.X ± 0.2
.XX ± 0.02
.XXX ± 0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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TITLE

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NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG NO

FMCN1428

CAGE CODE

3FKR5

CAD FILE

110217

SHEET

1 OF 1

SCALE

N/A

SIZE

A 7361