

3.5mm Female Connector Clamp/Solder Attachment  
4 Hole for FM-SR047ALTN-COIL, FM-SR047CU-COIL,  
FM-SR047CUTN-COIL, .047 Semi-Rigid Cable



**FMCN51280**

**Configuration**

- 3.5mm Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid
- 4 Hole Flange

**Features**

- Operating Frequency of 26.5 MHz Max.
- Excellent VSWR of 1.25:1
- Gold over Nickel Plated Beryllium Copper Contact

**Applications**

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

**Description**

3.5mm Female 4 hole Flange Mount Standard 4 hole Flange Mount Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL and .047 Semi-Rigid Cable, part number FMCN51280, from Fairview Microwave is in-stock and ships same day. This 3.5mm female connector operates up to a maximum frequency of 26.5 MHz and offers excellent VSWR of 1.25:1. Fairview's FMCN51280 4 hole flange 3.5mm connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Fairview's 3.5mm female 4 hole flange connector FMCN51280 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	MHz
VSWR			1.25:1	
Insertion Loss			0.154	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
RF Leakage	100			dB
Impedance		50		Ohms

Electrical Specification Notes:  
Insertion loss is =  $0.03 * \text{SQRT}(F(\text{GHz}))$  dB

**Mechanical Specifications**

<b>Size</b>	
Length	0.5 in [12.7 mm]
Width	0.5 in [12.7 mm]

3.5mm Female Connector Clamp/Solder Attachment  
4 Hole for FM-SR047ALTN-COIL, FM-SR047CU-COIL,  
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**FMCN51280**

Height	0.624016 in [15.85 mm]
Weight	0.015 lbs [6.8 g]
Mating Cycles	500 Cycles
Mating Torque	7.1 to 15 in-lbs [[0.80 to 1.70 Nm]]
Cable Retention Force	6.1 lbs [2.77 kg]

**Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel
Insulation	PPO	
Body	Stainless Steel	Passivated
Coupling Nut	Stainless Steel	Passivated

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-55 to +105 deg C
Thermal Shock	MIL-STD-202, Method 107, Condition B

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

**Plotted and Other Data**

Notes:

3.5mm Female Connector Clamp/Solder Attachment 4 Hole for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid 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.

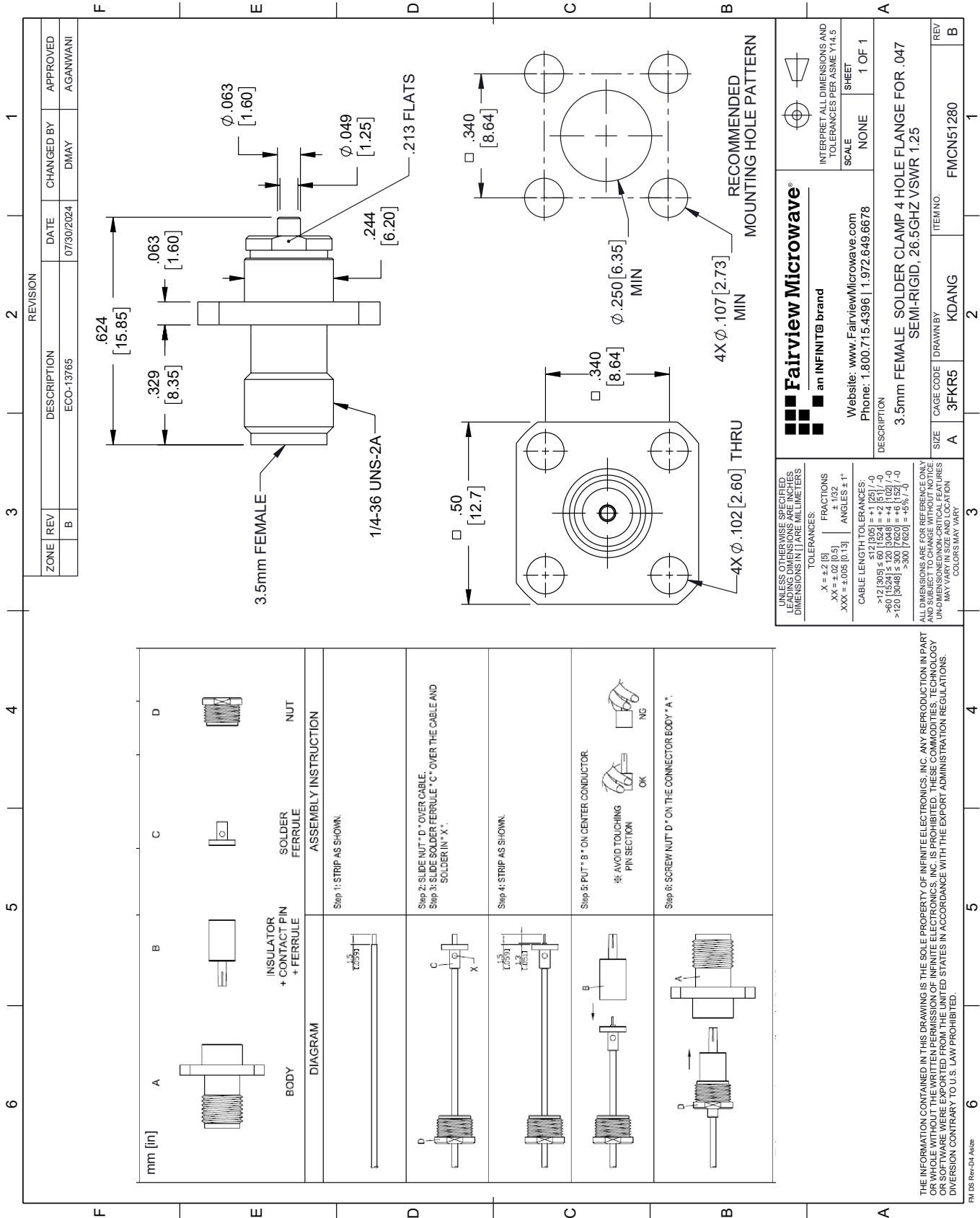
For additional information on this product, please click the following link: [3.5mm Female Connector Clamp/Solder Attachment 4 Hole for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid Cable FMCN51280](#)

URL: <https://www.fairviewmicrowave.com/3.5mm-female-fm-sr047altn-coil-fm-sr047cu-coil-fm-sr047cutn-coil-.047-semi-rigid-connector-fmcn51280-p.aspx>

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# FMCN51280 CAD Drawing

3.5mm Female Connector Clamp/Solder Attachment 4 Hole for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid Cable



<b>Fairview Microwave®</b> an INFINITO brand Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: 3.5mm FEMALE SOLDER CLAMP 4 HOLE FLANGE FOR .047 SEMI-RIGID, 26.5GHZ VSWR 1.25		
SIZE: A CAGE CODE: 3FKR5 DRAWN BY: KDANG	ITEM NO.: FMCN51280	REV: B

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

TOLERANCES:

- X = ±.2 [5]
- XX = ±.02 [0.5]
- XXX = ±.005 [0.13]

FRACTIONS: ± 1/32

ANGLES: ± 1°

CABLE LENGTH TOLERANCES:

- < 12 [305] ≤ 60 [1524] = ±.1 [25] / -0
- > 60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
- > 120 [3048] ≤ 300 [7620] = ±.8 [20] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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FM DS Rev-D4 Alt26

## .047 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Straight Sections

.047 diameter semi-rigid coaxial cable is the cable of choice for many RF and Microwave engineers. This form factor is widely used in the RF industry and many connector series and configurations are available for this cable. Because of the solid copper wall design the cable can be formed using proper tooling with a minimum inside bend radius of .05 inches.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
DWV (AC)			2,000	Vrms

### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Typ	40 131.23	130 426.51	190 623.36			dB/100ft dB/100m
Power In (CW), Max	32	9	6.5			Watts

### Mechanical Specifications

Min. Bend Radius (Installation) 0.05 in [1.27 mm]

### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver	0.011 in [0.28 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.037 in [0.94 mm]
Outer Conductor	Copper, Bare	0.047 in [1.19 mm]

### Environmental Specifications

#### Temperature

Operating Range -55 to +100 deg C

### Compliance Certifications (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant Yes  
 REACH Compliant 12/17/2014

### Plotted and Other Data

Notes:

### Configuration:

- Semi-Rigid Cable

### Features:

- Silver Plated Copper Clad Steel center conductor
- PTFE dielectric material
- Bare Copper Outer Conductor
- Operating to 40 GHz
- Minimum inside bend radius of .05 inches
- ROHS compliant

### Applications:

- RF and Microwave Cable Assemblies to 40 GHz
- Preformed cable assemblies to insure fit and layout
- Test Equipment port jumpers

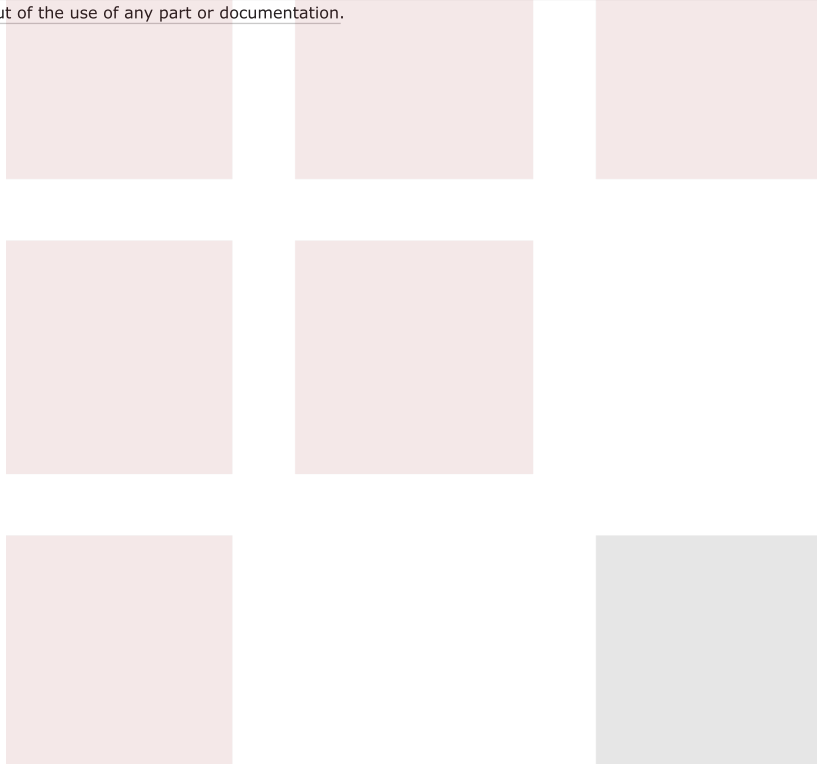
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[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

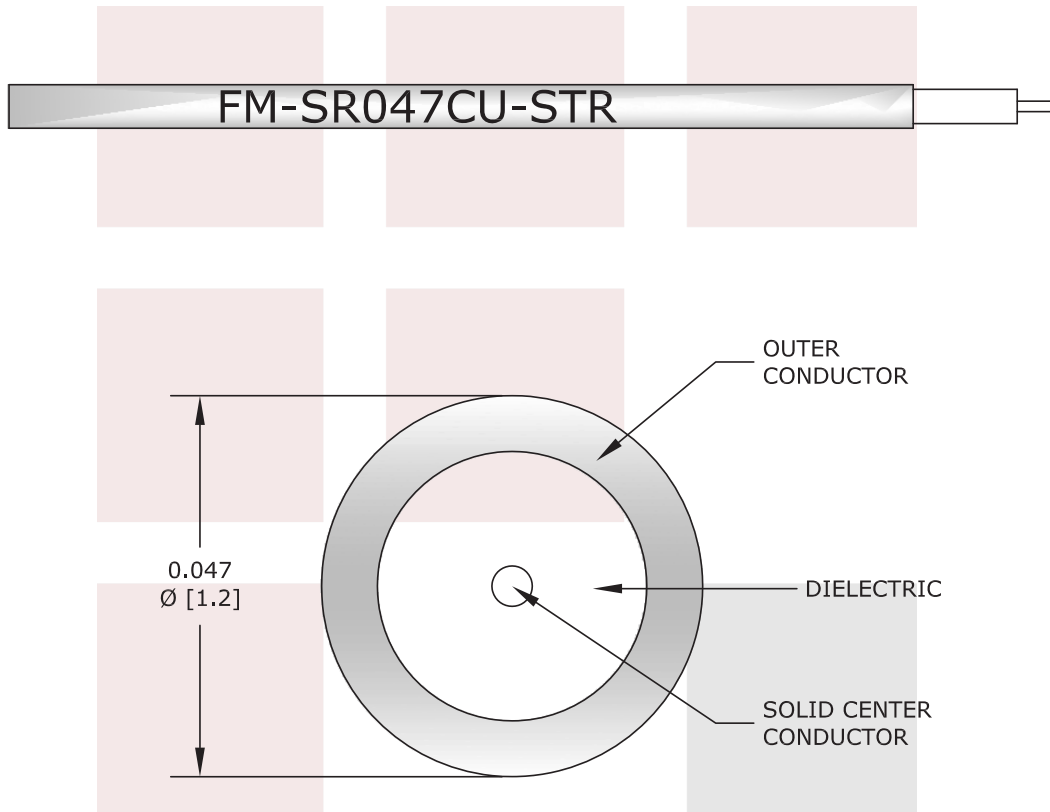
.047 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Straight Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [.047 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Straight Sections FM-SR047CU-STR](#)

URL: <http://www.fairviewmicrowave.com/.047-semi-rigid-coax-cable-copper-fm-sr047cu-str-p.aspx>

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TITLE .047 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Straight Sections		DWG NO FM-SR047CU-STR		CAGE CODE 3FKR5	
CAD FILE	012716	SHEET	SCALE	N/A	SIZE A 2233

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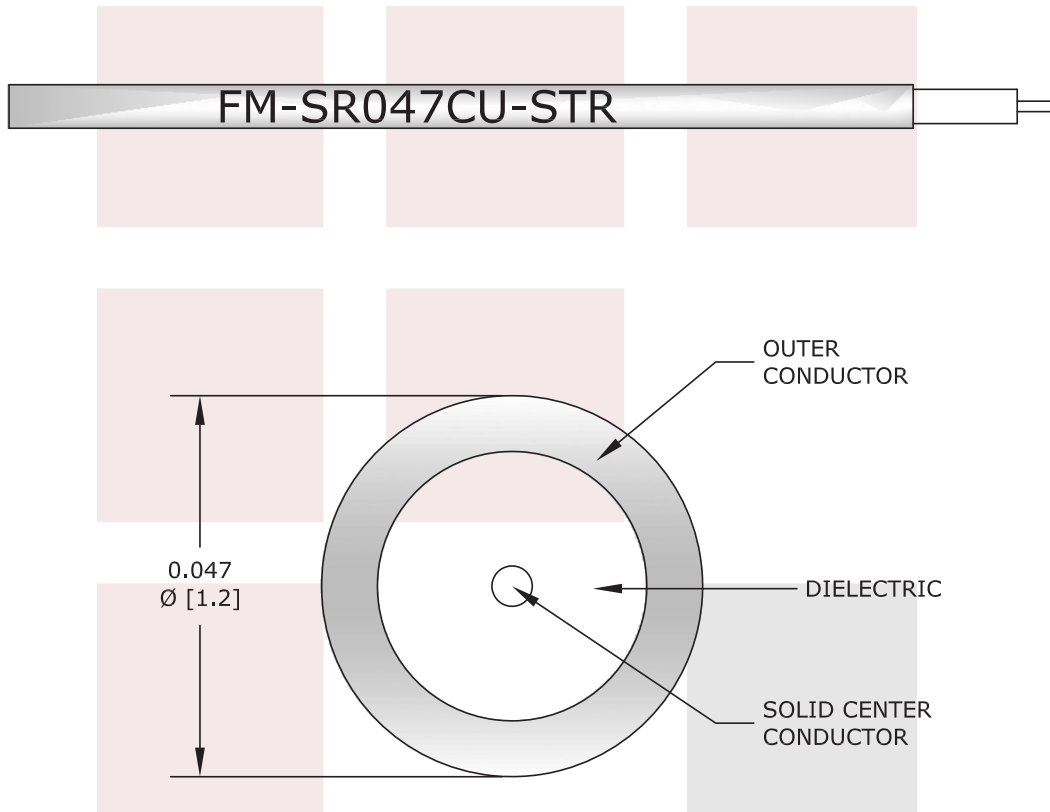
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