

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



FMCN51275

Configuration

- 3.5mm Male Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid

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

- Custom Cable Assemblies

Description

3.5mm Male Standard Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL and .047 Semi-Rigid Cable, part number FMCN51275, from Fairview Microwave is in-stock and ships same day. This 3.5mm male connector operates up to a maximum frequency of 26.5 MHz and offers excellent VSWR of 1.25:1.

Fairview's 3.5mm male connector FMCN51275 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 = $0.03 \cdot \text{SQRT}(F(\text{GHz}))$ dB

Mechanical Specifications

Size

Length	0.314961 in [8 mm]
Width	0.314961 in [8 mm]
Height	0.633858 in [16.1 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]]

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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
Retaining Ring	Beryllium Copper	Copper-Tin-Zinc Alloy
Gasket	Silicone	
Solder Sleeve	Stainless Steel	Passivated

Environmental Specifications

Temperature
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 Male Connector Clamp/Solder Attachment 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 Male Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid Cable FMCN51275](#)

URL: <https://www.fairviewmicrowave.com/3.5mm-male-fm-sr047altn-coil-fm-sr047cu-coil-fm-sr047cutn-coil-.047-semi-rigid-connector-fmcn51275-p.aspx>

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FMCN51275 CAD Drawing

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