

# FMCN1825 DATA SHEET

# 1.85mm Female Bulkhead Mount Connector Clamp/ Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405, .252 inch

1.85mm female bulkhead connector with clamp/solder attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405 and .252 inch (.252 inch D hole), part number FMCN1825, from Fairview Microwave is in-stock and ships same day. This 1.85mm female connector operates up to a maximum frequency of 60 GHz and offers good VSWR of 1.35:1. Fairview's FMCN1825 bulkhead 1.85mm 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 1.85mm female bulkhead connector FMCN1825 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	Тур	Max	Units
Frequency Range	DC		60	GHz
VSWR			1.35:1	
VSWR			1.35:1	

#### **Mechanical Specifications**

Size
Length
Width/Dia.
Height
Weight

0.97 in [24.64 mm] 0.282 in [7.16 mm] 0.31 in [7.87 mm] 0.018 lbs [8.16 g]

# **Material Specifications**

Material	Plating	
Beryllium Copper	Gold over Nickel 50 µin minimum	
PEI		
Passivated Stainless Steel		
	SAE-AMS-2700	
	Beryllium Copper PEI	

**Compliance Certifications** (see product page for current document)

# **Plotted and Other Data**

Notes:



# **Configuration:**

- 1.85mm Female Connector
- IEEE-STD-P287
- 50 Ohms
- Straight Body Geometry
- FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405, .252 inch Interface Type
- Clamp/Solder Attachment
- Bulkhead

# **Features:**

- Operating Frequency of 60 GHz Max.
- Good VSWR of 1.35:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

# **Applications:**

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

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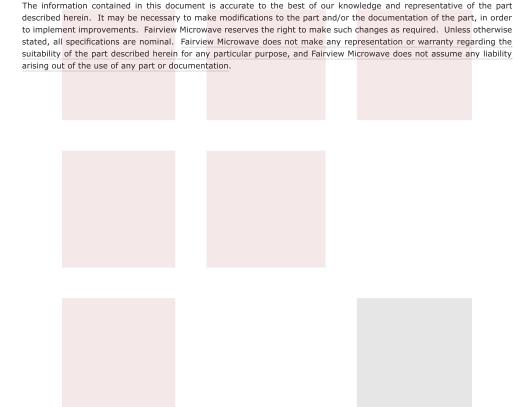




1.85mm Female Bulkhead Mount Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405, .252 inch from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

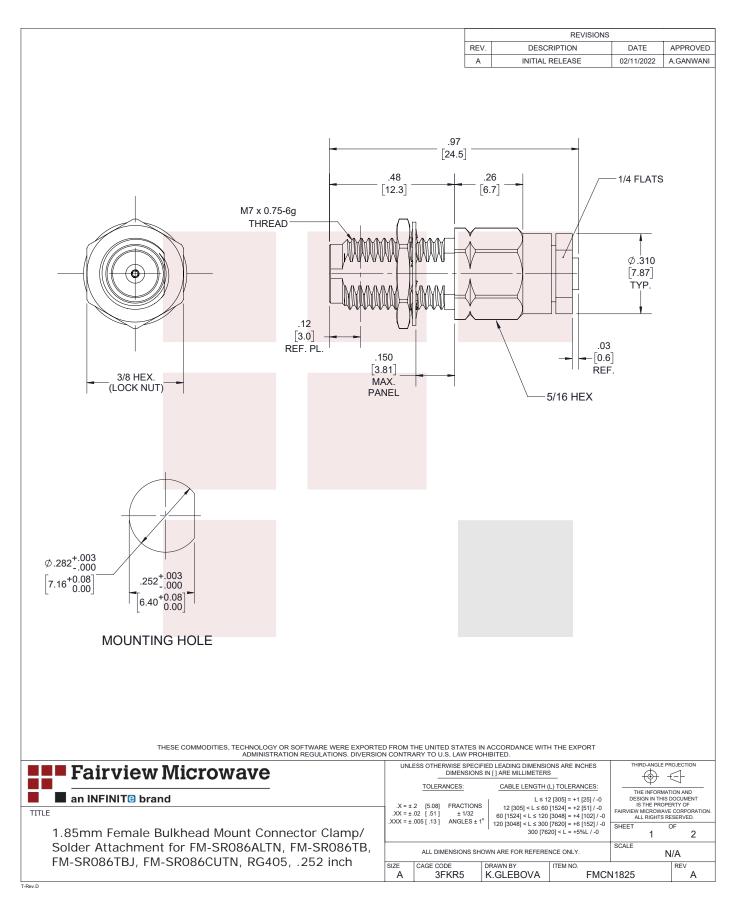
For additional information on this product, please click the following link: 1.85mm Female Bulkhead Mount Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405, .252 inch FMCN1825

URL: https://www.fairviewmicrowave.com/1.85mm-female-fm-sr086altn-fm-sr086tb-fm-sr086tbj-fm-sr086cutn-rg405-.252-connector-fmcn1825-p.aspx









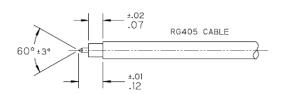




# **ASSEMBLY PROCEDURES**

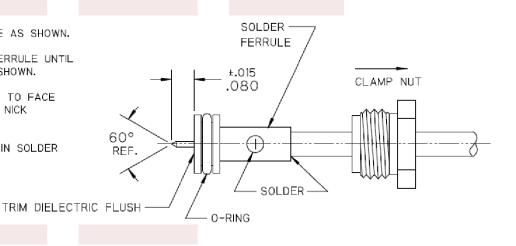
#### STEP 1

- 1A. TRIM CABLE JACKET TO EXPOSE DIELECTRIC & CENTER CONDUCTOR AS SHOWN.
- 1B. POINT CENTER CONDUCTOR AS SHOWN.

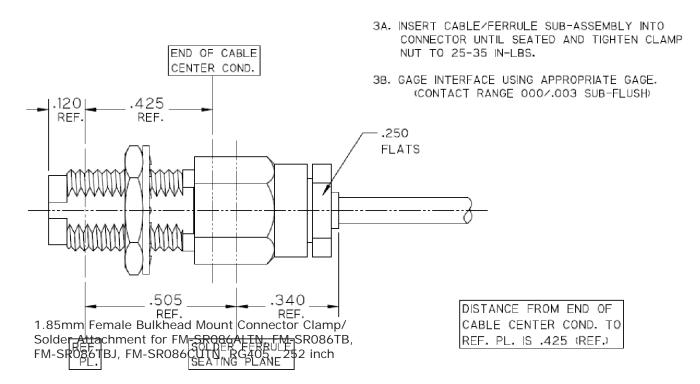


#### STEP 2

- 2A. SLIDE CLAMP NUT OVER CABLE AS SHOWN.
- 2B. INSERT CABLE INTO SOLDER FERRULE UNTIL SEATED AND SOLDER WHERE SHOWN.
- 2C. TRIM CABLE DIELECTRIC FLUSH TO FACE OF SOLDER FERRULE (DO NOT NICK CENTER CONDUCTOR).
- 2D. INSTALL 0-RING INTO GROOVE IN SOLDER FERRULE FLANGE AS SHOWN.



# STEP 3



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# **FMCN5134**

#### Configuration

- · BMMA Female Connector
- 50 Ohms
- · Straight Body Geometry

- Connector Interface Types: FM-SR086CU, FM-SR086CUTN, FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-F086, 0.085 Cable, RG405
- Bulkhead

#### **Features**

- · Operating Frequency of 22 GHz Max.
- Good VSWR of 1.35:1

### **Applications**

- · General Purpose Test
- Rack and Panel Mount Applications

- Gold Plated Beryllium Copper Contact
- · Custom Cable Assemblies

# **Description**

BMMA Female Bulkhead Standard Bulkhead Connector Solder Attachment for FM-SR086CU, FM-SR086CUTN, FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-F086, 0.085 Cable and RG405 Cable, part number FMCN5134, from Fairview Microwave is in-stock and ships same day. This BMMA female connector operates up to a maximum frequency of 22 GHz and offers good VSWR of 1.35:1. Fairview's FMCN5134 bulkhead BMMA 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 BMMA female bulkhead connector FMCN5134 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		22	GHz
VSWR			1.35:1	
Insertion Loss			0.469	dB
Impedance	-	50		Ohms

### **Mechanical Specifications**

Size	
Length	0.709 in [18.01 mm]
Width	0.402 in [10.21 mm]
Height	0.402 in [10.21 mm]
Weight	0.007 lbs [3.18 g]
Mating Cycles	500 Cycles





# **FMCN5134**

# **Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Outer Conductor	Stainless Steel	Gold
Body	Stainless Steel	Gold

# **Environmental Specifications**

**Temperature** 

Operating Range

-65 to +165 deg C

Compliance Certifications (see product page for current document)

# **Plotted and Other Data**

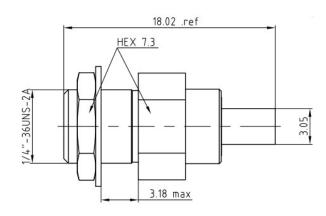
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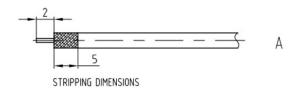


# **FMCN5134**

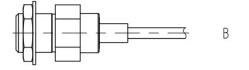
#### **Assembly Instruction**



#### **ASSEMBLY PROCEDURES**



- 1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK INNER CONDUCTOR.
- 2. PRE-TIN CABLE JACKET TO APPROXIMATE DIMENSION AS SHOWN IN (A).



3. INSERT CABLE THRU ADAPTER UNTIL IT BOTTOMS. SOLDER





# **FMCN5134**

BMMA Female (Jack) Bulkhead Connector Solder Attachment for FM-SR086CU, FM-SR086CUTN, FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, 0.085 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.

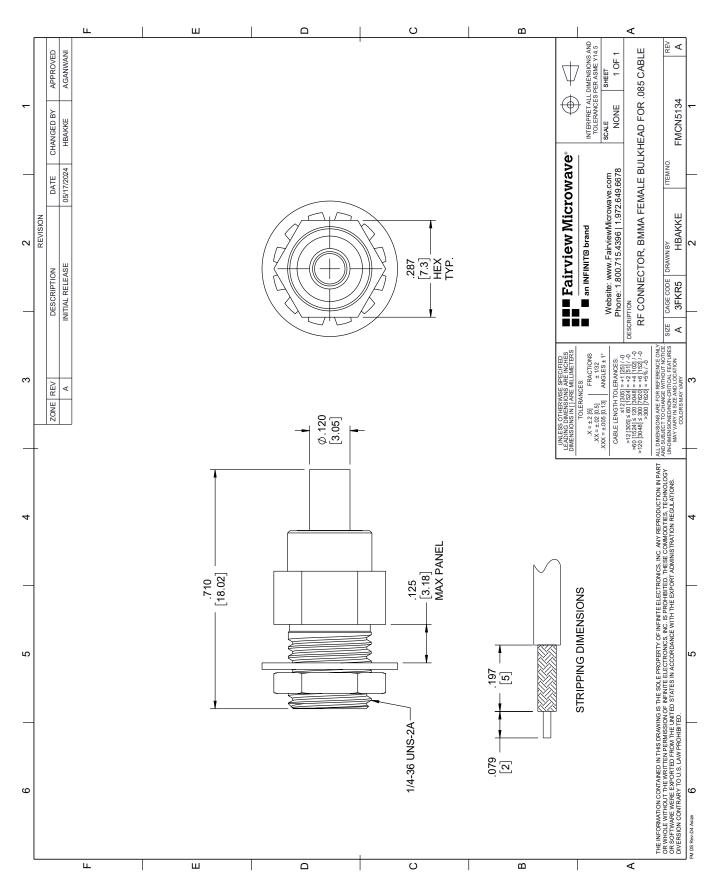
For additional information on this product, please click the following link: BMMA Female (Jack) Bulkhead Connector Solder Attachment for FM-SR086CU, FM-SR086CUTN, FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, 0.085 Cable FMCN5134

URL: https://www.fairviewmicrowave.com/bmma-female-0.85-cable-connector-fmcn5134-p.aspx

The information contained within 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 impliment 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 liability arising out of the use of any part or document.

# **FMCN5134 CAD Drawing**

BMMA Female (Jack) Bulkhead Connector Solder Attachment for FM-SR086CU, FM-SR086CUTN, FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, 0.085 Cable







# Formable .086 Formable Coax Cable Black FEP Jacket

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly preformed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. The tin soaked copper braid outer shield provides excellent RF shielding. FEP Jacket reduces the chance of shorting exposed contacts or circuit conductors.

# **Electrical Specifications**

Description	Min	Т	ур	Max	Units
Frequency Range	DC			61	GHz
Impedance		í	50		Ohms
Velocity of Propagation		6	9.5		%
Time Delay		1.43	[4.69	·]	ns/ft [ns/m]
Shielding Effectiveness	100				dB
Operating Voltage (AC)				1,500	Vrms
Inner Conductor DC Res	st.			65.7	Ohms/1000t
Outer Conductor DC Res	ist.			10.2	Ohms/1000t
Nominal Capacitance		:	29		pF/ft
		[95	5.14]		[pF/m]

# **Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	20	GHz
Attenuation, Typ	15 49.21	22.5 73.82	54.9 180.12	81.2 266.4	120 393.7	dB/100ft dB/100m
Power In (CW), Max	173.5	121.5	52.2	35.8	24.3	Watts

# **Mechanical Specifications**

Diameter 0.105 in [2.67 mm]
Weight 0.026 lbs/ft [0.04 Kg/m]

Min. Bend Radius (Installation) 0.5 in [12.7 mm]
Min. Bend Radius (Repeated) 0.787 in [19.99 mm]

#### **Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strands	0.02 in [0.51 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.062 in [1.57 mm]
Outer Conductor	Tinned Copper Composite Braid	0.085 in [2.16 mm]
Jacket	FEP, Black	0.105 in [2.67 mm]

# **Configuration:**

- · Formable Cable
- 1 Shield(s)

### Features:

- Dimensionally the same as standard solid outer conductor semirigid coax
- Standard semi-rigid connectors can be used
- Cable is hand formable and does not require special tools to bend
- Connectors are easily soldered to Tin soaked outer conductor
- Cable can be formed more than once without damage to outer conductor
- High RF Shielding >100 dB

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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:

Formable .086 Formable Coax Cable Black FEP Jacket 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: Formable .086 Formable Coax Cable Black FEP Jacket FM-SR086TBJ

URL: https://www.fairviewmicrowave.com/invalid-alias-formable-coax-cable-fep-jacket-fm-sr086tbj-p.aspx

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