Fairview Microwave
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FMCN1827
DATA SHEET

3.5mm Male Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405

3.5mm male connector with clamp/solder attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN and RG405, part number FMCN1827, from Fairview Microwave is in-stock and ships same day.

Fairview's 3.5mm male connector FMCN1827 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.

Mechanical Specifications

Size

Length	0.94 in [23.88 mm]
Width/Dia.	0.312 in [7.92 mm]
Height	0.5 in [12.7 mm]
Weight	0.016 lbs [7.26 g]
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PCTFE	
Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Configuration:

- 3.5mm Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405 Interface Type
- Clamp/Solder Attachment
- 5/16 inch Hex

Features:

- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

Fairview Microwave
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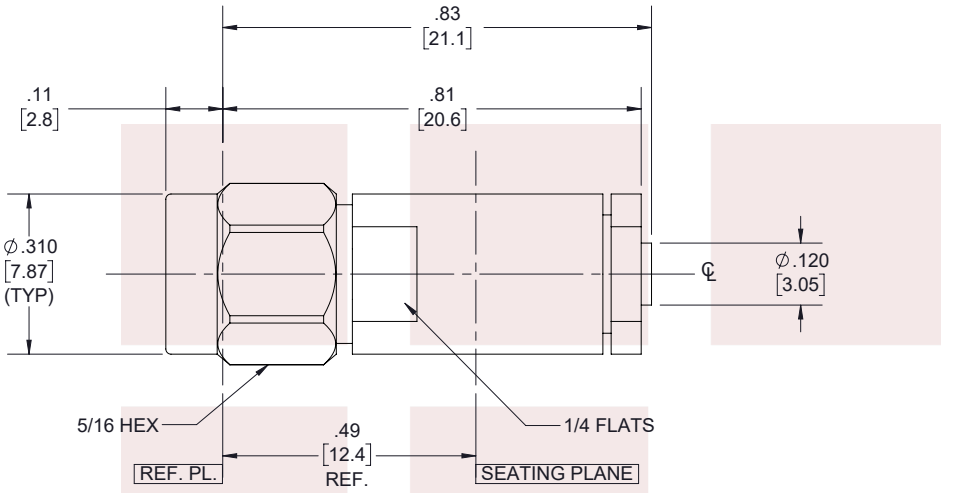
3.5mm Male Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

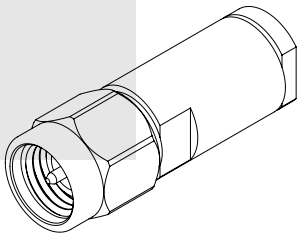
For additional information on this product, please click the following link: 3.5mm Male Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405 FMCN1827

URL: https://www.fairviewmicrowave.com/3.5mm-male-fm-sr086altn-fm-sr086tb-fm-sr086tbj-fm-sr086cutn-rg405-connector-fmcn1827-p.aspx

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REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/11/2022	A.GANWANI





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TITLE

3.5mm Male Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405

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TOLERANCES:

.X = ±.2 [5.08]
.XX = ±.02 [.51]
.XXX = ±.005 [.13]
FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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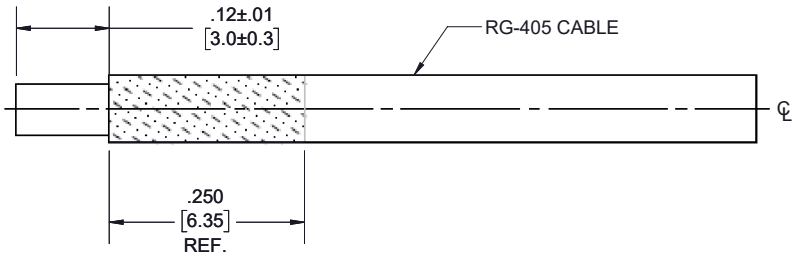
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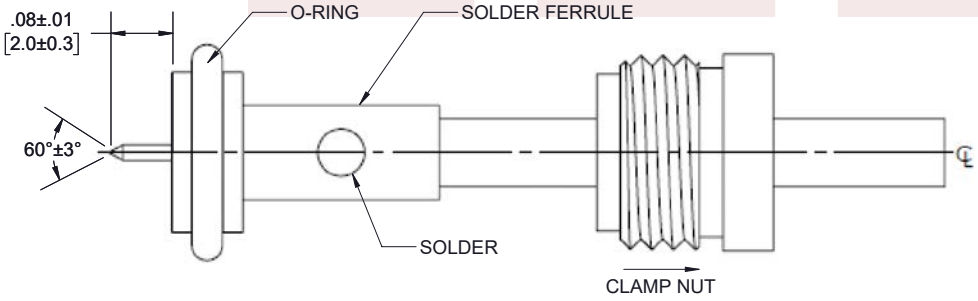
ASSEMBLY PROCEDURES

STEP 1



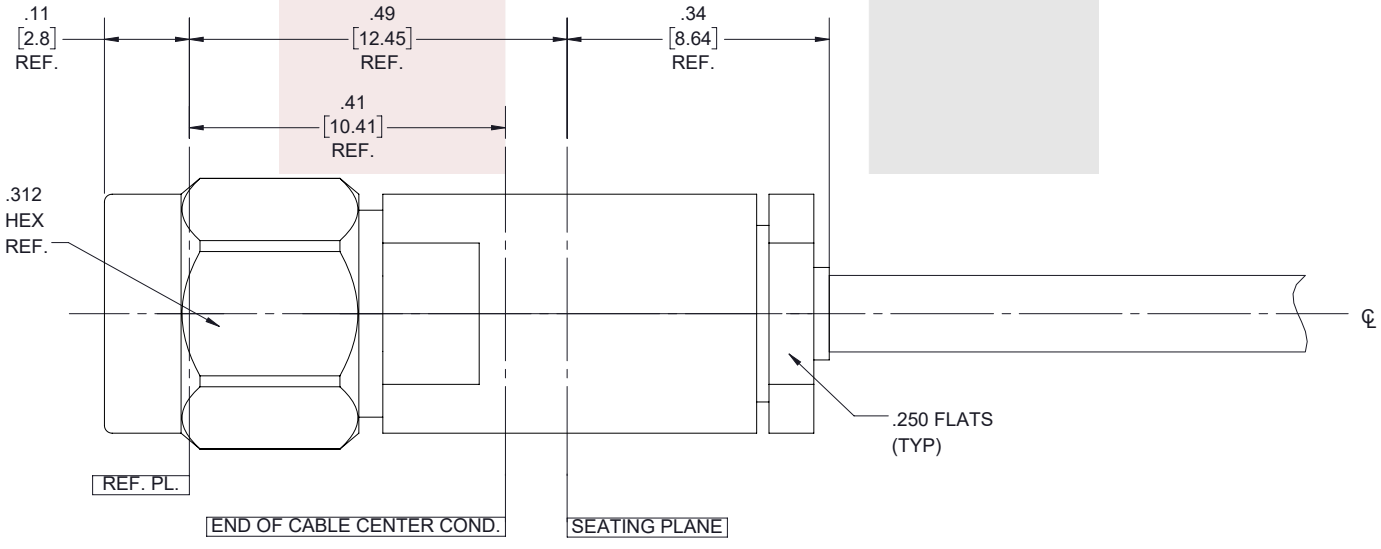
1A. TRIM CABLE TO EXPOSE DIELECTRIC CORE AS SHOWN.
1B. PRE-TIN CABLE JACKET TO APPROXIMATE DIMENSION SHOWN.

STEP 2



2A. SLIDE CLAMP NUT ONTO CABLE IN ORIENTATION SHOWN.
2B. INSERT CABLE INTO SOLDER FERRULE UNTIL FULLY SEATED. THEN SOLDER CABLE TO FERRULE WHERE SHOWN.
2C. TRIM CABLE DIELECTRIC FLUSH WITH FERRULE FACE (DO NOT SCORE CENTER CONDUCTOR). THEN POINT CENTER CONDUCTOR AS SHOWN.

STEP 3



3. INSERT CABLE SUB-ASSEMBLY INTO CONNECTOR BODY UNTIL SOLDER FERRULE IS SEATED AND TIGHTEN CLAMP NUT TO 25-35 IN. LBS.

3.5mm Male Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405

DISTANCE FROM END OF CABLE CENTER COND. TO REF PL. IS .410 (REF.)

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FMCN1912
DATA SHEET

BNC Female Bulkhead Mount Connector Clamp/ Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, RG405



BNC female bulkhead connector with clamp/solder attachment for FM-SR086ALTN, FM-SR086TBJ, FM-SR086TB and RG405, part number FMCN1912, from Fairview Microwave is in-stock and ships same day. Fairview's FMCN1912 bulkhead BNC 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 BNC female bulkhead connector FMCN1912 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.

Mechanical Specifications

Size

Length	1.15 in [29.21 mm]
Width/Dia.	0.688 in [17.48 mm]
Height	0.688 in [17.48 mm]
Weight	0.048 lbs [21.77 g]

Material Specifications

Description	Material	Plating
Body	Brass	Nickel

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

BNC Female Bulkhead Mount Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, RG405 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: BNC Female Bulkhead Mount Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, RG405 FMCN1912

URL: https://www.fairviewmicrowave.com/bnc-female-pe-sr405al-pe-sr405fl-rg405-connector-fmcn1912-p.aspx

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Configuration:

- BNC Female Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR086ALTN, FM-SR086TBJ, FM-SR086TB, RG405 Interface Type
- Clamp/Solder Attachment
- Bulkhead

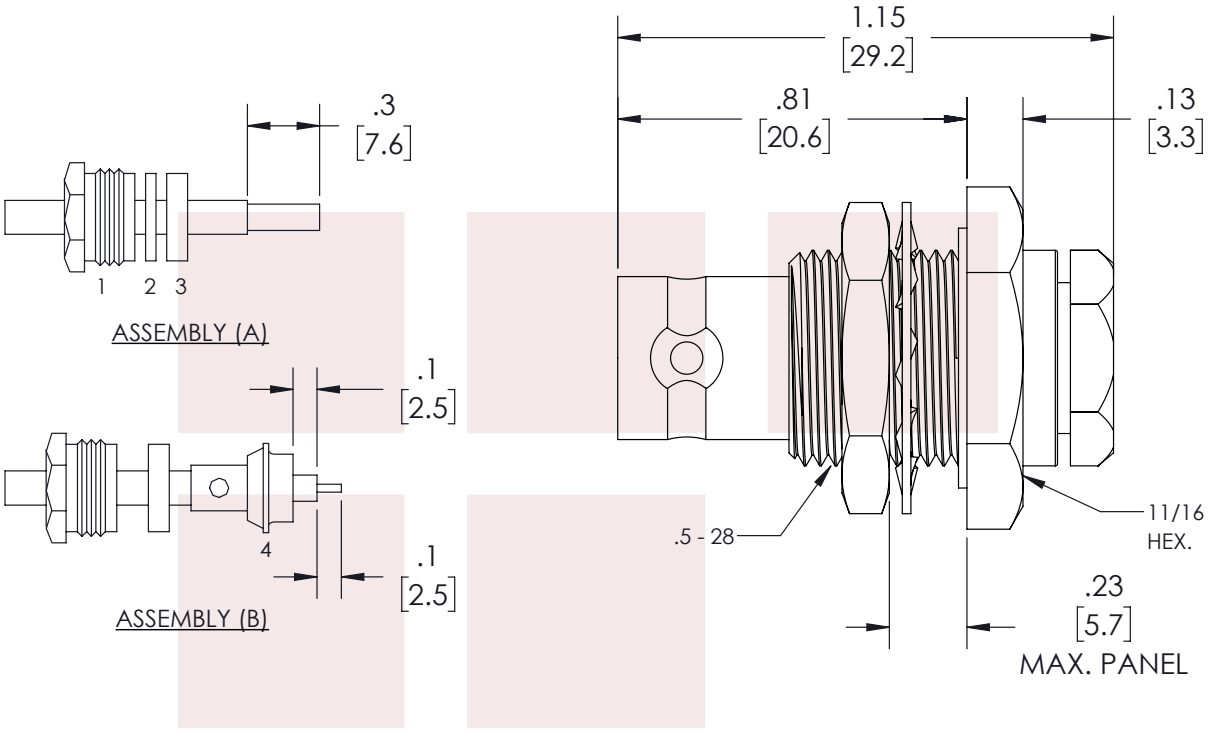
Applications:

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

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A	INITIAL RELEASE	06/07/22	AGANWANI

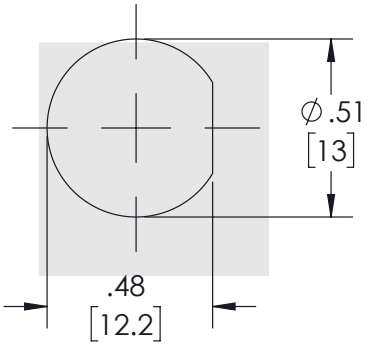


ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1), WASHER (2) & GASKET (3) OVER CABLE.
   STRIP CABLE AS SHOWN IN ASSEMBLY (A).
   DO NOT CUT DIELECTRIC.

2. SLIDE ADAPTER (4) OVER CABLE UNTIL ADAPTER (4)
   BOTTOMS ON OUTER CONDUCTOR. SOLDER ADAPTER (4)
   TO OUTER CONDUCTOR USING MINIMUM HEAT.

3. STRIP CABLE AS SHOWN IN ASSEMBLY (B).
   SOLDER CONTACT TO CENTER CONDUCTOR.
   SLIDE ASSEMBLY FORWARD & TIGHTEN TO BODY.



MOUNTING HOLE

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TITLE

BNC Female Bulkhead Mount Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, RG405

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DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

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THIRD-ANGLE PROJECTION

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A	3FKR5	VTHANGARAJ	FMCN1912	A

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FM-SR086TBJ DATA SHEET

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	Typ	Max	Units
Frequency Range	DC		61	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Time Delay		1.43 [4.69]		ns/ft [ns/m]
Shielding Effectiveness	100			dB
Operating Voltage (AC)			1,500	Vrms
Inner Conductor DC Resist.			65.7	Ohms/1000ft
Outer Conductor DC Resist.			10.2	Ohms/1000ft
Nominal Capacitance		29 [95.14]		pF/ft [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 semi-rigid 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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A	INITIAL RELEASE	11/22/19	S.ELLIS



SECTION VIEW

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A	3FKR5	K.DANG	FM-SR086TBJ	A

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