

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	Typ	Max	Units
Frequency Range	DC		60	GHz
VSWR			1.35:1	

Mechanical Specifications

Size	
Length	0.97 in [24.64 mm]
Width/Dia.	0.282 in [7.16 mm]
Height	0.31 in [7.87 mm]
Weight	0.018 lbs [8.16 g]

Material Specifications

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

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

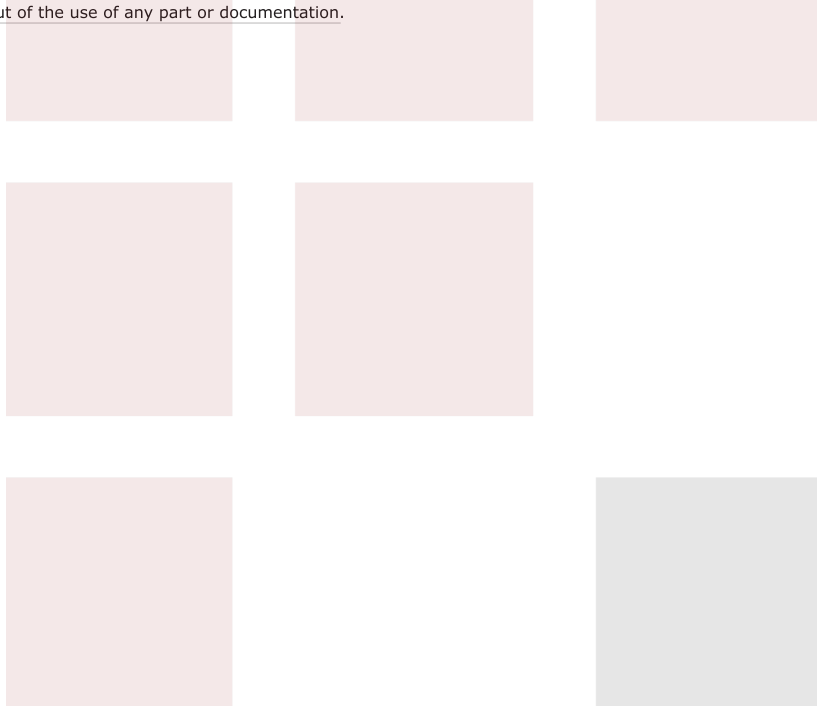
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1.85mm Female Bulkhead Mount Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405, .252 inch from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available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

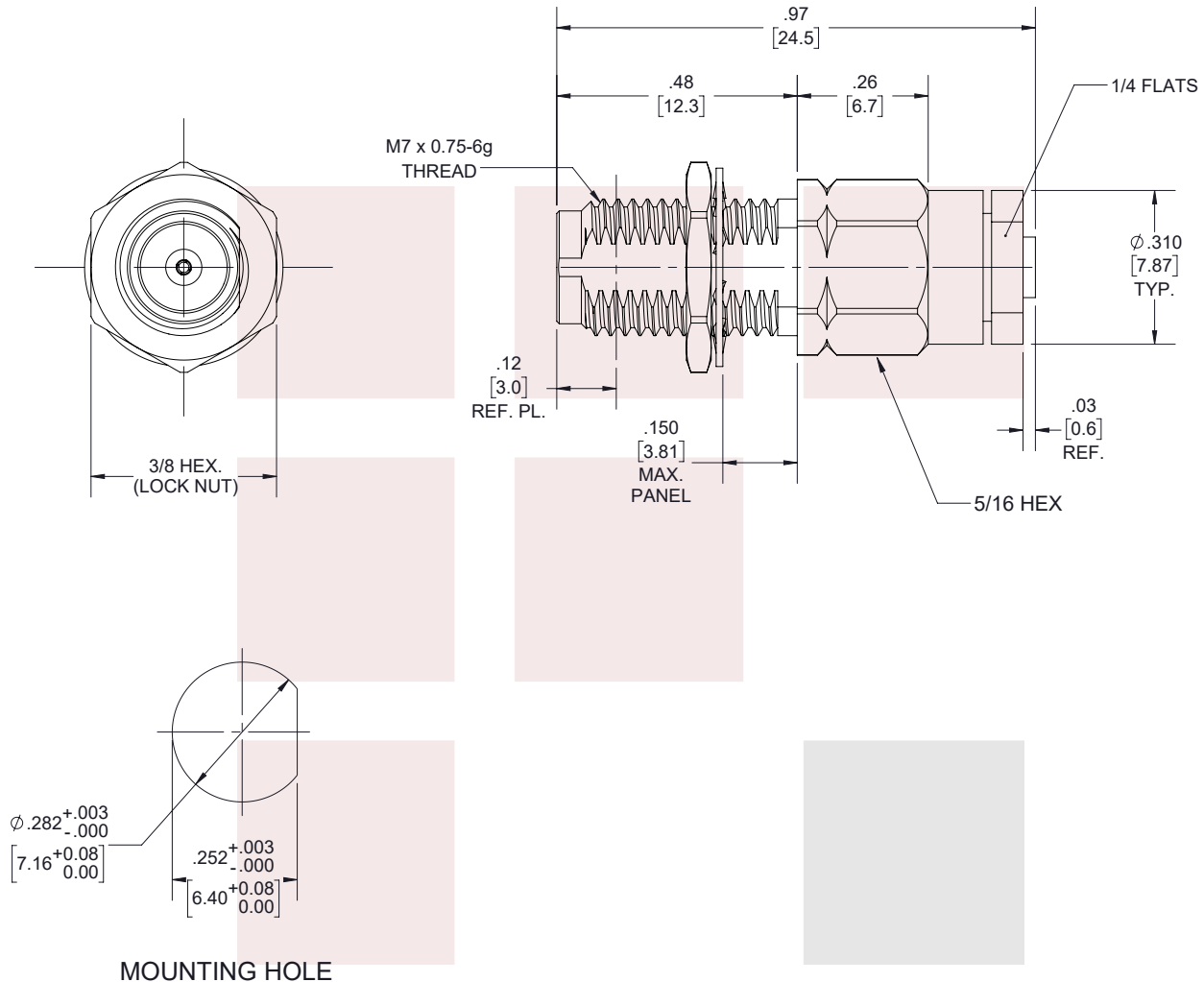
For additional information on this product, please click the following link: [1.85mm Female Bulkhead Mount Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405, .252 inch FMCN1825](#)

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

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



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TITLE

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FM-SR086TBJ, FM-SR086CUTN, RG405, .252 inch

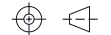
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [13]	ANGLES ± 1°	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.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 2

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.GLEBOVA	ITEM NO. FMCN1825	REV A
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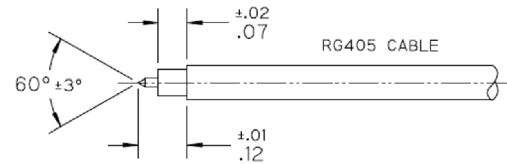
T-Rev.D

ASSEMBLY PROCEDURES

STEP 1

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

1B. POINT CENTER CONDUCTOR AS SHOWN.



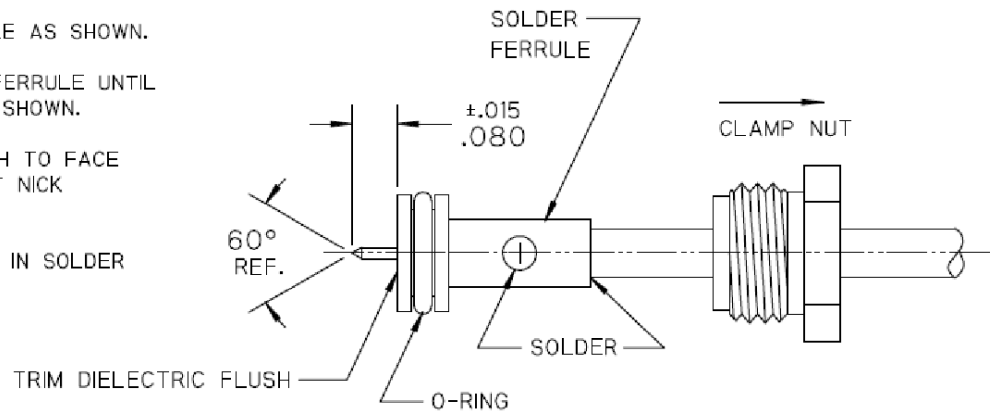
STEP 2

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).

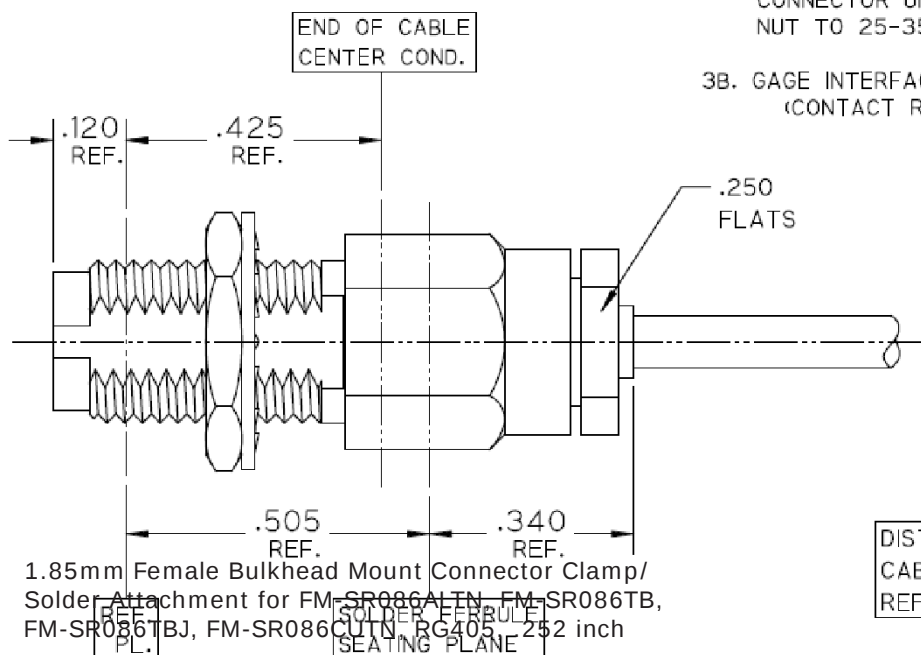
2D. INSTALL O-RING INTO GROOVE IN SOLDER FERRULE FLANGE AS SHOWN.



STEP 3

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

3B. GAGE INTERFACE USING APPROPRIATE GAGE. (CONTACT RANGE .000/.003 SUB-FLUSH)



DISTANCE FROM END OF CABLE CENTER COND. TO REF. PL. IS .425 (REF.)

2.4mm Female Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TBJ, FM-SR086TBJ, FM-SR086CUTN-STR, RG405

2.4mm female connector with clamp/solder attachment for FM-SR086ALTN, FM-SR086TBJ, FM-SR086CUTN-STR and RG405, part number FMCN1901, from Fairview Microwave is in-stock and ships same day.

Fairview's 2.4mm female connector FMCN1901 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	0.97 in [24.64 mm]
Width/Dia.	0.33 in [8.38 mm]
Height	0.33 in [8.38 mm]
Weight	0.018 lbs [8.16 g]

Material Specifications

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

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

Plotted and Other Data

Notes:



Configuration:

- 2.4mm Female Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR086ALTN, FM-SR086TBJ, FM-SR086CUTN-STR, RG405 Interface Type
- Clamp/Solder Attachment

Features:

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

Applications:

- General Purpose Test
- Custom Cable Assemblies

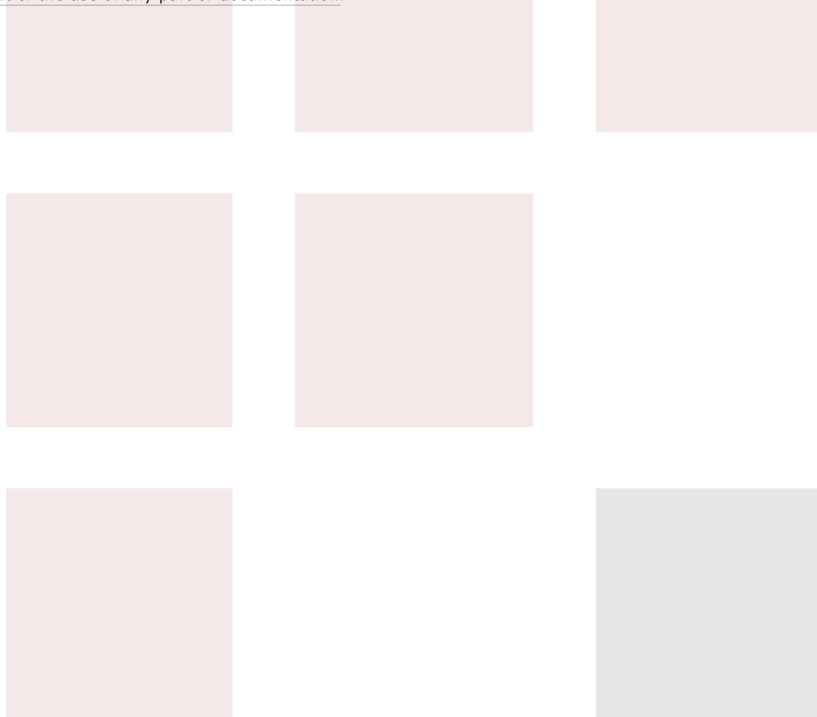
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2.4mm Female Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TBJ, FM-SR086TBJ, FM-SR086CUTN-STR, RG405 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

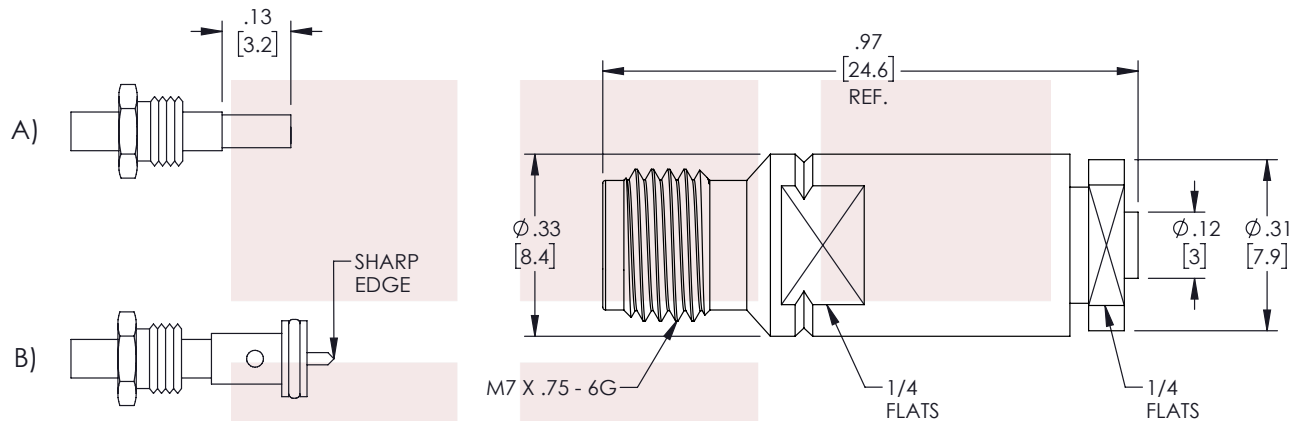
For additional information on this product, please click the following link: [2.4mm Female Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TBJ, FM-SR086TBJ, FM-SR086CUTN-STR, RG405 FMCN1901](#)

URL: <https://www.fairviewmicrowave.com/2.4mm-female-fm-sr086altn-fm-sr086tbj-fm-sr086cutn-str-rg405-connector-fmcn1901-p.aspx>

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REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/07/22	AGANWANI



ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT OVER CABLE. STRIP CABLE AS SHOWN IN (A). DO NOT NICK DIELECTRIC.
2. INSERT CABLE THRU ADAPTER UNTIL IT BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO ADAPTER & TRIMS DIELECTRIC AS SHOWN IN (B)
3. SCREW ASSEMBLY INTO BODY & TIGHTEN NUT.

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TITLE

2.4mm Female Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TBJ, FM-SR086TBJ, FM-SR086CUTN-STR, RG405

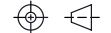
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DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0	
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0	
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	
		300 [7620] < L = +5%L / -0	

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	VTHANGARAJ	FMCN1901	A

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SHEET 1 OF 1

SCALE N/A

T-Rev.D

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:

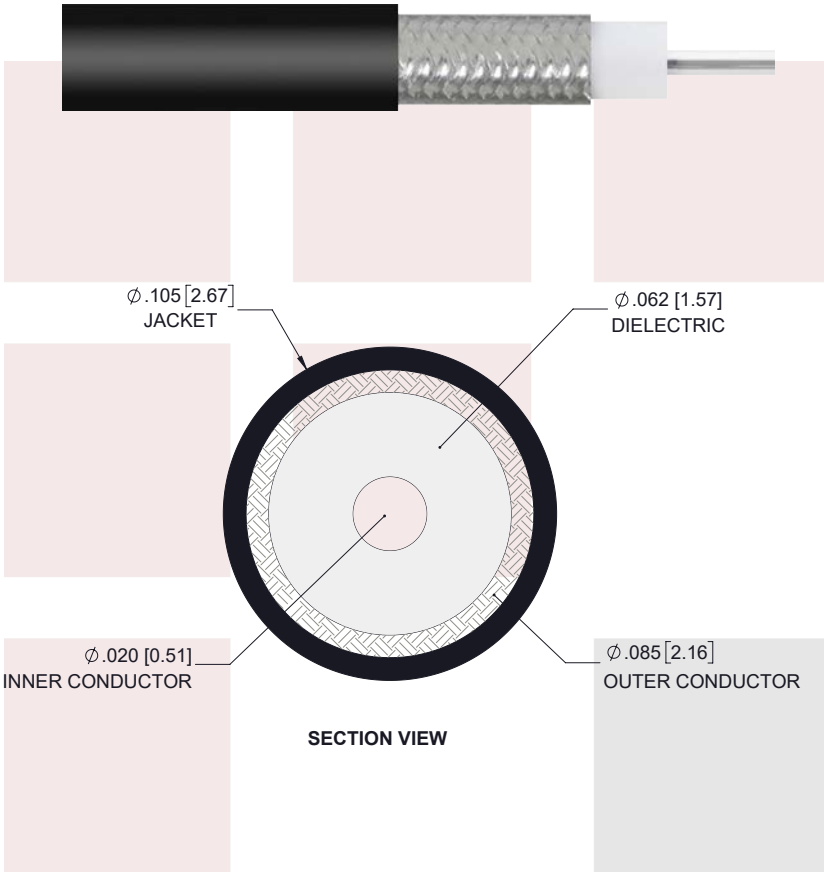
Formable .086 Formable Coax Cable Black FEP Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

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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REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/22/19	S.ELLIS



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TITLE		TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
Formable .086 Formable Coax Cable Black FEP Jacket		.X = ±.2 [5.08] FRACTIONS ± 1/32		L ≤ 12 [305] = +1 [25] / -0	
		.XX = ±.02 [.51] ANGLES ± 1°		12 [305] < L ≤ 60 [1524] = +2 [51] / -0	
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		ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE	
		SIZE A		N/A	
		CAGE CODE 3FKR5		DRAWN BY K.DANG	
				PART NUMBER FM-SR086TBJ	
				REV A	
				SHEET 1 OF 1	

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