

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
301 Leora Ln., Suite 100
Lewisville, TX 75056
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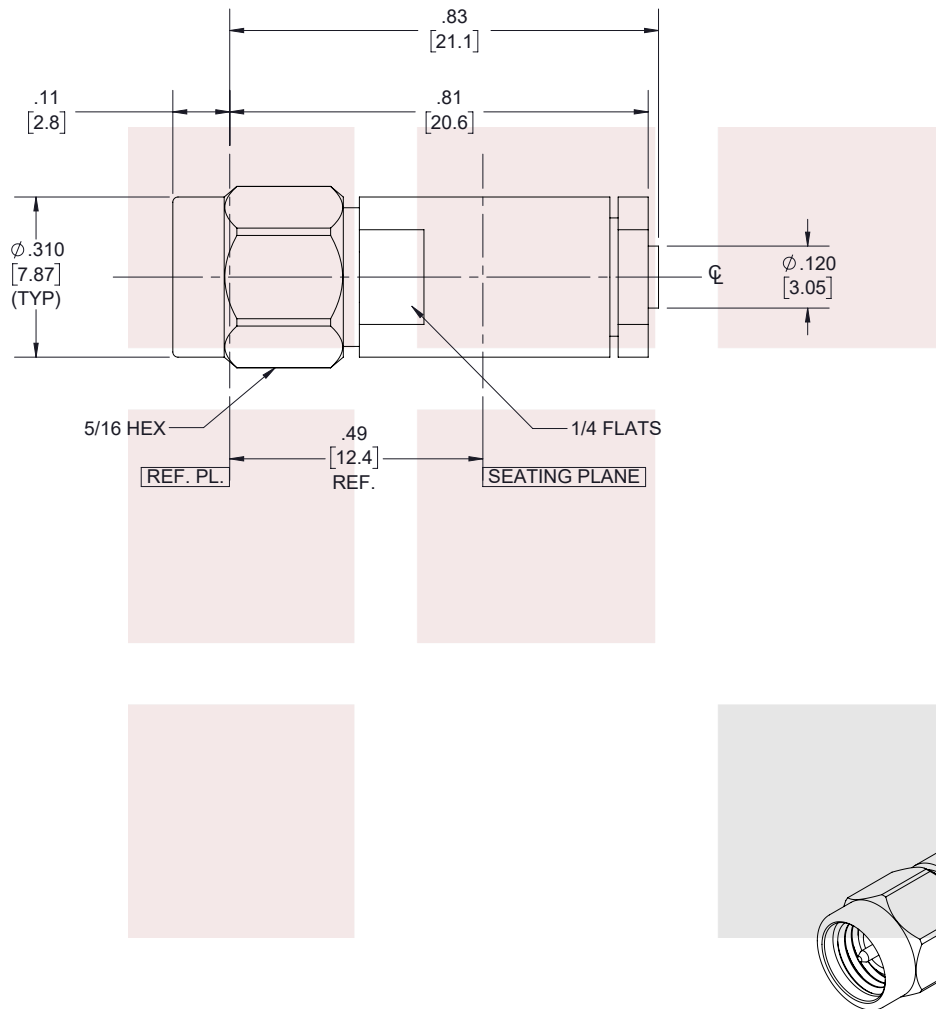
For additional information on this product, please click the following link: [3.5mm Male Connector Clamp/Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405 FMCN1827](#)

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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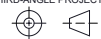
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		300 [7620] < L = +5%L / -0

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THIRD-ANGLE PROJECTION



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SHEET 1 OF 2

SCALE

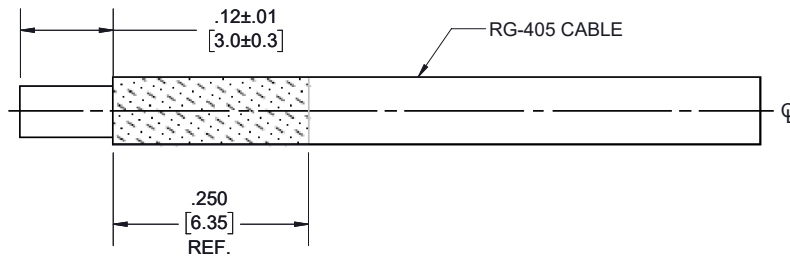
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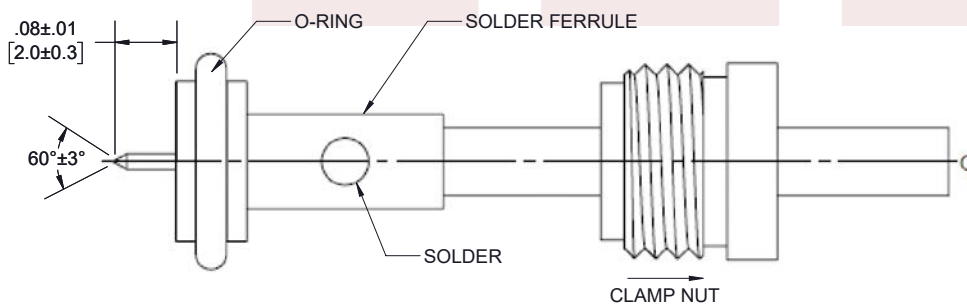
ASSEMBLY PROCEDURES

STEP 1



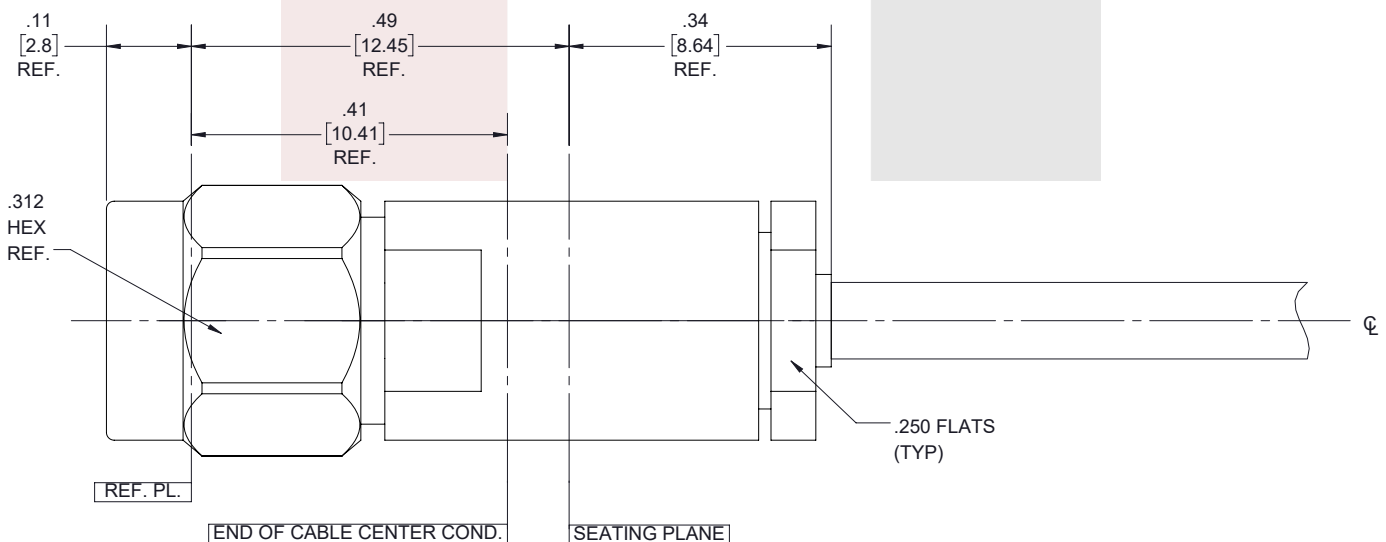
- 1A. TRIM CABLE TO EXPOSE DIELECTRIC CORE AS SHOWN.
- 1B. PRE-TIN CABLE JACKET TO APPROXIMATE DIMENSION SHOWN.

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



3.5mm 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.)

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

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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
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Features:

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Applications:

- General Purpose Test
- Custom Cable Assemblies

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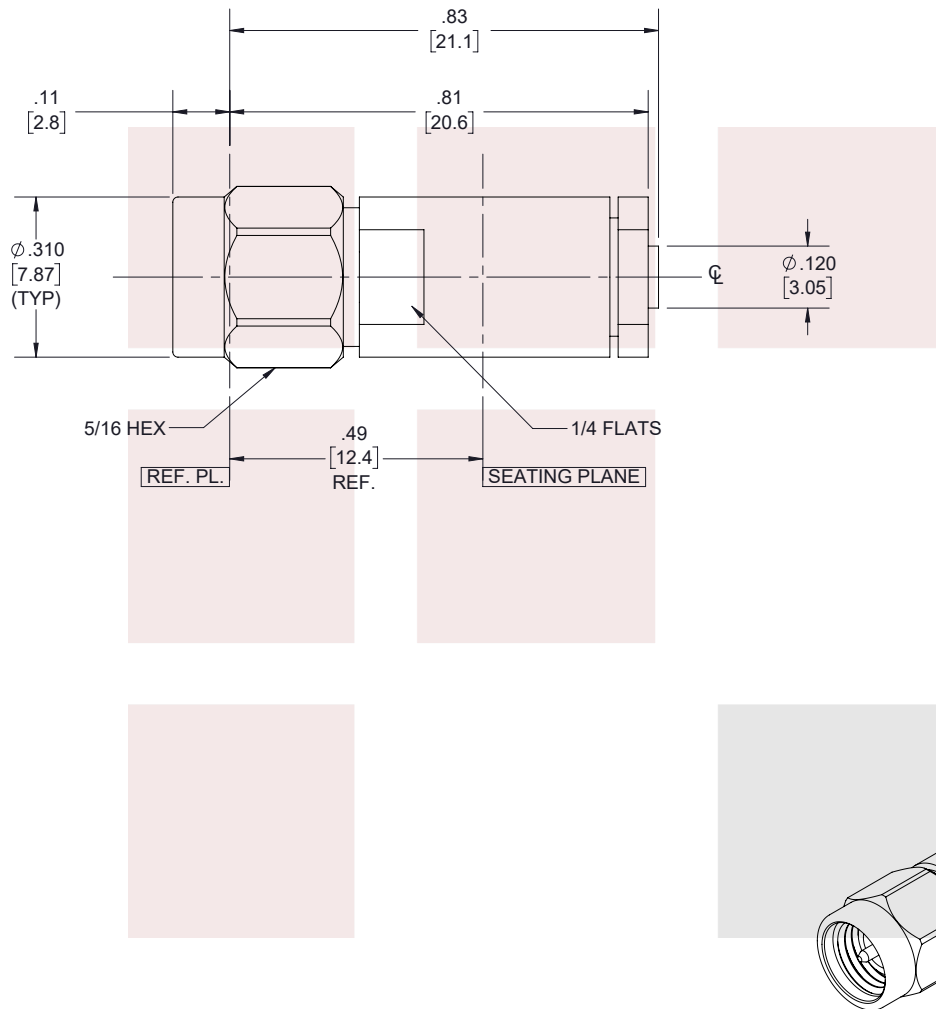
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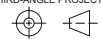
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THIRD-ANGLE PROJECTION



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SHEET 1 OF 2

SCALE

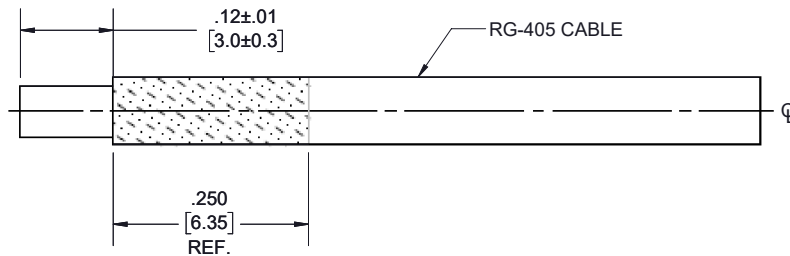
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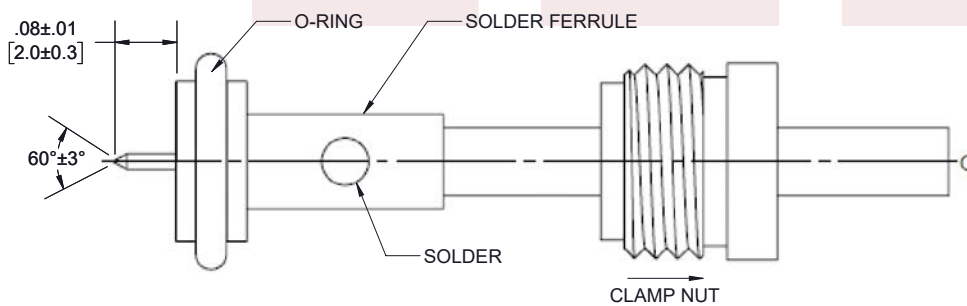
ASSEMBLY PROCEDURES

STEP 1



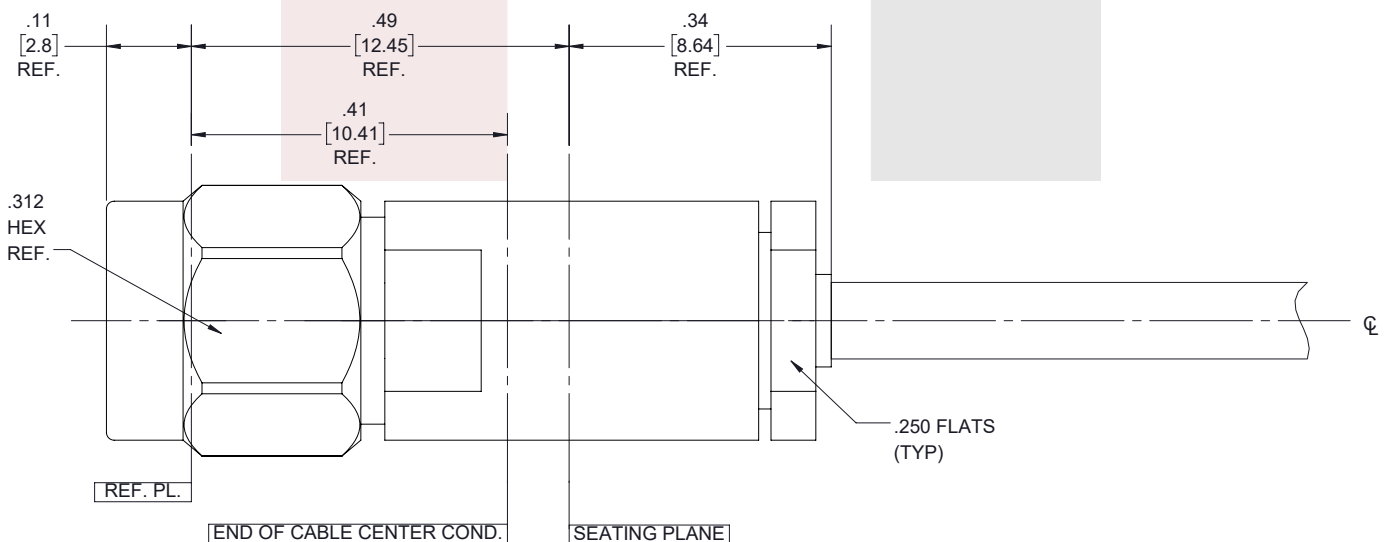
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STEP 2



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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



3.5mm Male Connector Clamp/Solder Attachment for
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DISTANCE FROM END OF
CABLE CENTER COND. TO
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3. INSERT CABLE SUB-ASSEMBLY INTO CONNECTOR BODY UNTIL SOLDER FERRULE IS SEATED AND TIGHTEN CLAMP NUT TO 25-35 IN. LBS.

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

Fairview Microwave
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sales@fairviewmicrowave.com

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

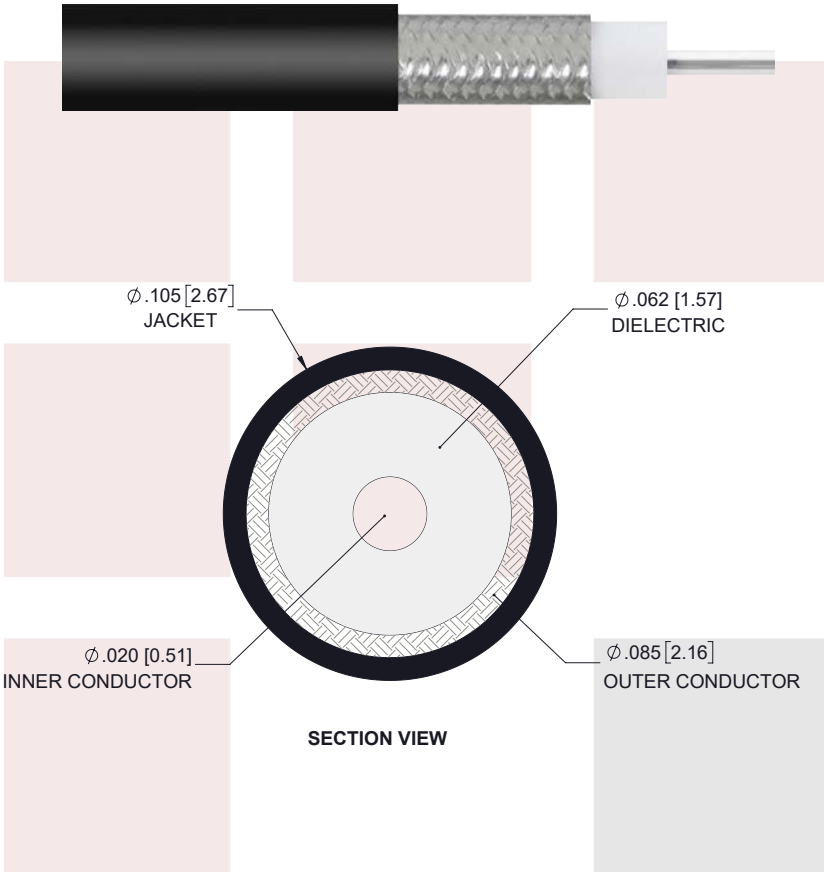
Formable .086 Formable Coax Cable Black FEP Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

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



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		DRAWN BY K.DANG		PART NUMBER FM-SR086TBJ	
				SCALE N/A	
				SHEET 1 OF 1	
				REV A	

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