

## TNC Female Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405

TNC female connector with solder/solder attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN and RG405, part number FMCN1873, from Fairview Microwave is in-stock and ships same day. This TNC female connector operates up to a maximum frequency of 6 GHz.

Fairview's TNC female connector FMCN1873 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		6	GHz

### Mechanical Specifications

Size	
Length	0.83 in [21.08 mm]
Width/Dia.	0.472 in [11.99 mm]
Height	0.5 in [12.7 mm]
Weight	0.019 lbs [8.62 g]

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel
Insulation	PTFE	
Body	Brass	Nickel

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

### Plotted and Other Data

Notes:



### Configuration:

- TNC Female Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405 Interface Type
- Solder/Solder Attachment

### Features:

- Operating Frequency of 6 GHz Max.
- Gold over Nickel Plated Beryllium Copper Contact

### Applications:

- General Purpose Test
- Custom Cable Assemblies

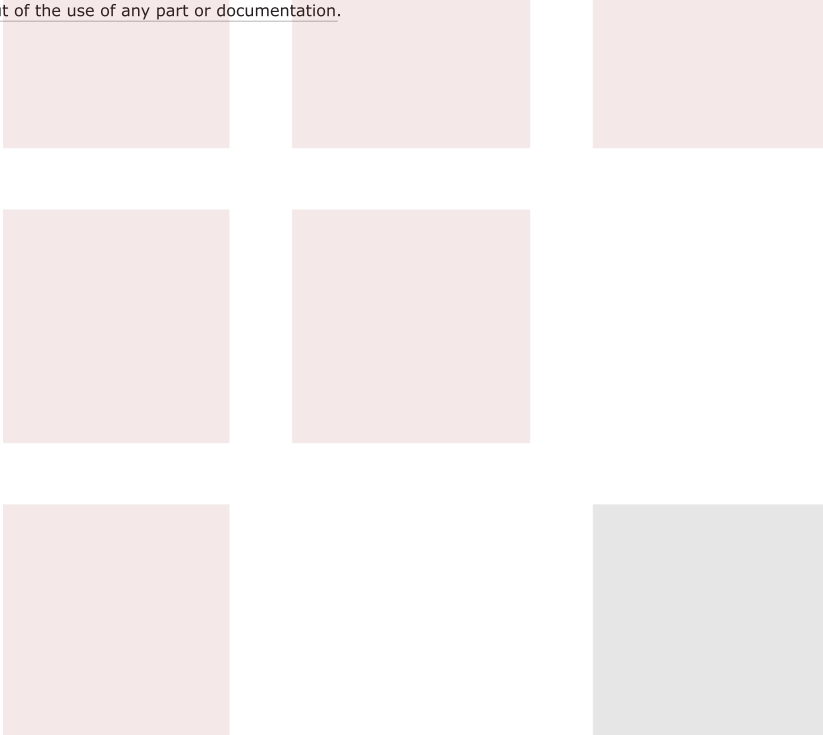
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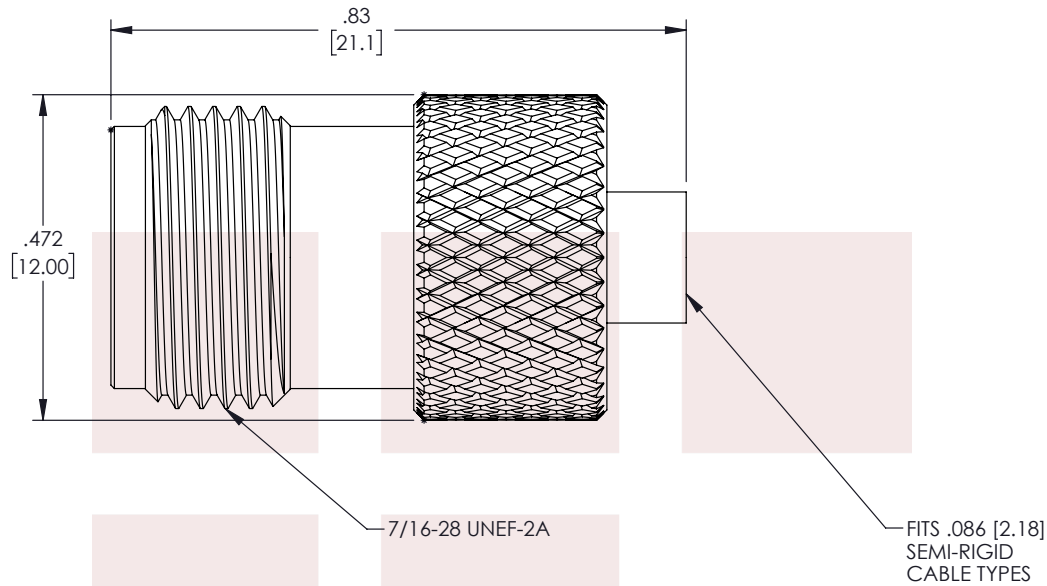
For additional information on this product, please click the following link: [TNC Female Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-SR086CUTN, RG405 FMCN1873](#)

URL: <https://www.fairviewmicrowave.com/tnc-female-fm-sr086altn-fm-sr086tb-fm-sr086tbj-fm-sr086cutn-rg405-connector-fmcn1873-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/21/2022	AGANWANI



#### STRIPPING DIMENSIONS

#### ASSEMBLY PROCEDURE

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. PLACE WASHER OVER CENTER CONDUCTOR. SLIDE CONTACT OVER CONDUCTOR UNTIL IT BOTTOMS OUT. SOLDER CONTACT TO CENTER CONDUCTOR.
3. INSERT CABLE INTO BODY UNTIL IT MATES. SOLDER OUTER CONDUCTOR TO BODY.

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#### TITLE

TNC Female Connector Solder Attachment for  
FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, FM-  
SR086CUTN, RG405

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

#### TOLERANCES:

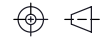
.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
XXX = ±.005 [.13] ANGLES ± 1°

#### 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.

#### THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	A.KRESOWSKI	FMCN1873	A

T-Rev.D

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



### 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
- Gold Plated Beryllium Copper Contact

#### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- 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

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



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

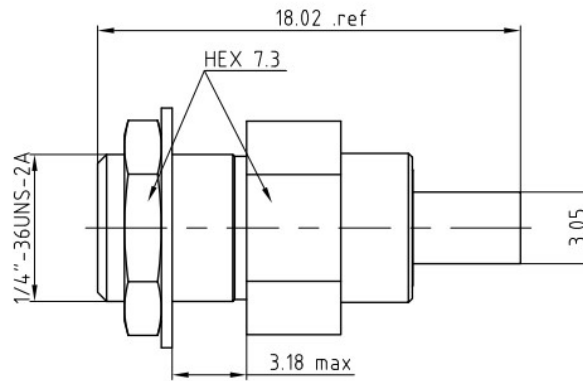
Notes:

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

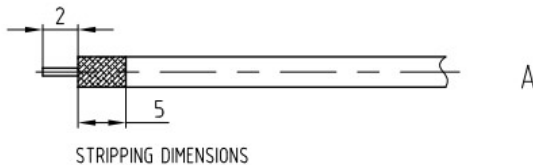


## FMCN5134

### Assembly Instruction

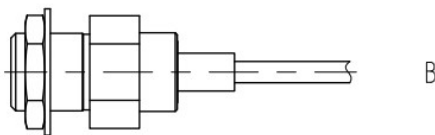


### ASSEMBLY PROCEDURES



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

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



**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.

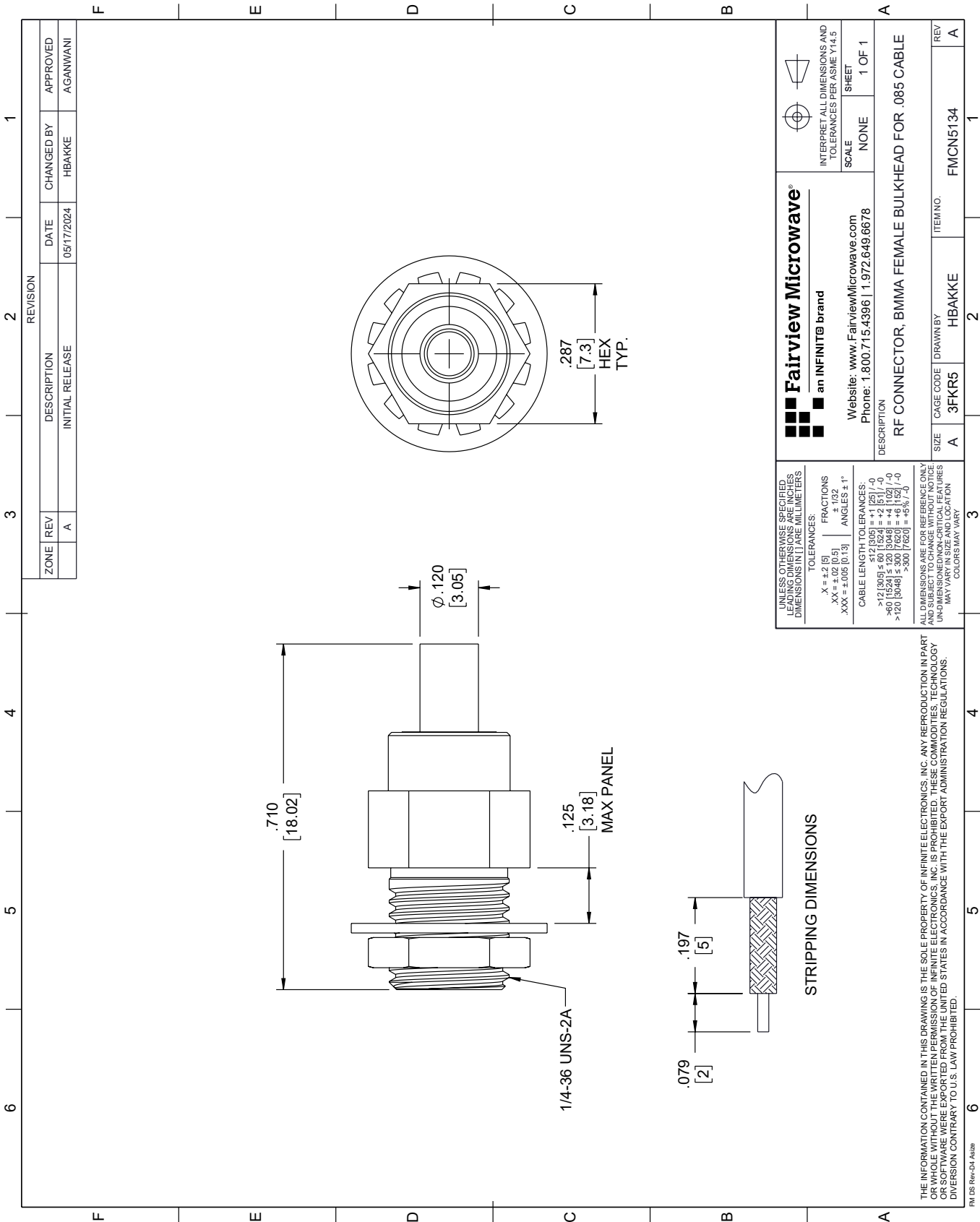
For additional information on this product, please click the following link: [BMMA Female \(Jack\) Bulkhead Connector Solder Attachment for FM-SR086CU, FM-SR086CUTN, FM-SR086ALTN, FM-SR086TB, FM-SR086TBJ, 0.085 Cable FMCN5134](https://www.fairviewmicrowave.com/bmma-female-0.85-cable-connector-fmcn5134-p.aspx)

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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	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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[sales@fairviewmicrowave.com](mailto: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:

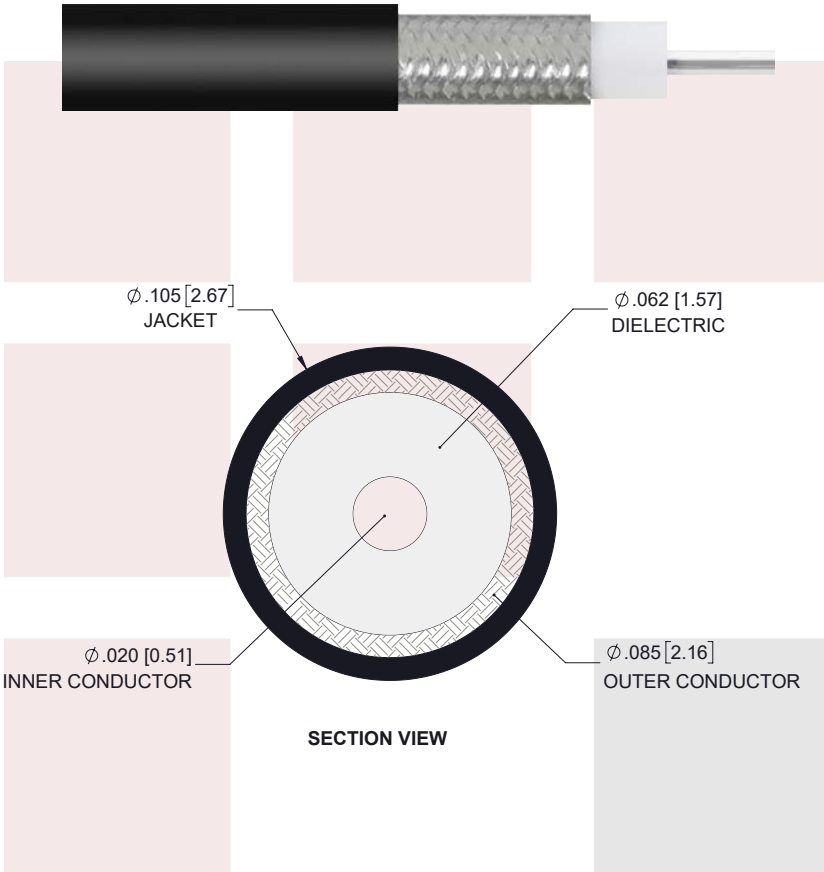
Formable .086 Formable Coax Cable Black FEP Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

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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TITLE  Formable .086 Formable Coax Cable Black FEP Jacket		TOLERANCES:			CABLE LENGTH (L) TOLERANCES:	
		.X = ±.2 [ .508 ]    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			THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.	
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SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	PART NUMBER FM-SR086TBJ		REV A	

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