

## SMA Male Bulkhead Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable

SMA male bulkhead connector with solder/solder attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR and FM-SR141CUTN-COIL, part number FMCN1943, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.2:1. The SMA male connector also has low passive intermodulation (PIM) of -155 dBc. Fairview's FMCN1943 bulkhead SMA 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 SMA male bulkhead connector FMCN1943 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
VSWR			1.2:1	
Passive Intermodulation			-155	dBc
DWV (AC)			750	Vrms

### Mechanical Specifications

<b>Size</b>	
Length	0.71 in [18.03 mm]
Width/Dia.	0.36 in [9.14 mm]
Height	0.36 in [9.14 mm]
Weight	0.008 lbs [3.63 g]

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Silver
Insulation	PTFE	
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal



### Configuration:

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR-141CUTN-COIL Interface Type
- Solder/Solder Attachment
- Bulkhead
- Low PIM Design

### Features:

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.2:1
- PIM levels better than -155 dBc
- Silver Plated Beryllium Copper Contact

### Applications:

- General Purpose Test
- Rack and Panel Mount Applications
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Environmental Specifications

### Temperature

Operating Range -40 to +155 deg C

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

## Plotted and Other Data

Notes:

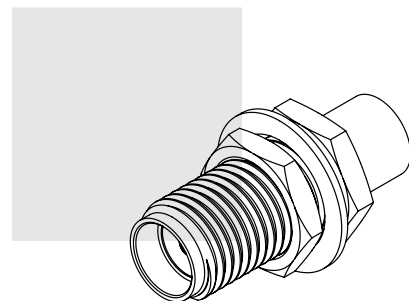
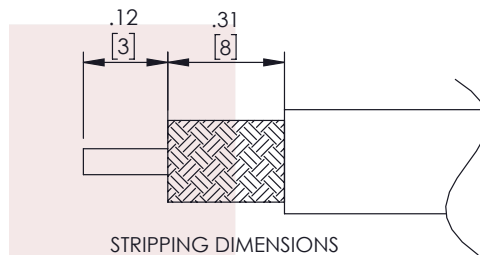
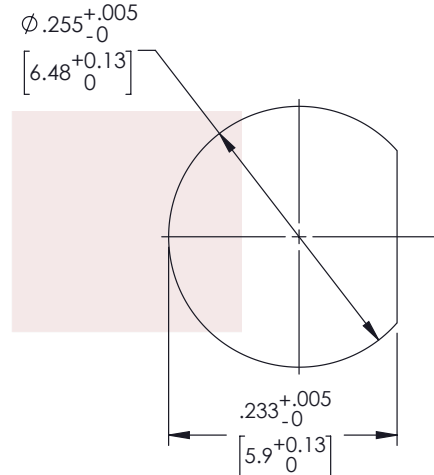
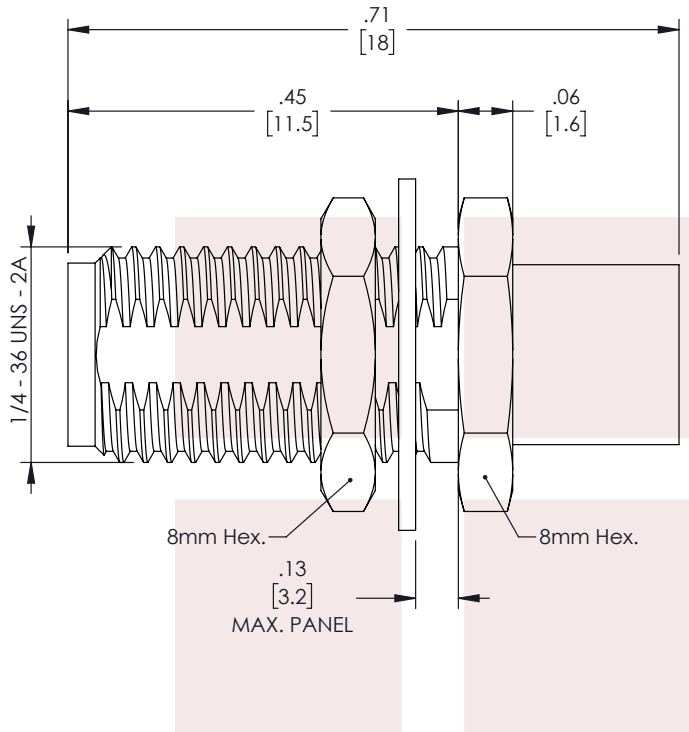
SMA Male Bulkhead Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Male Bulkhead Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable FMCN1943](#)

URL: <https://www.fairviewmicrowave.com/sma-male-fm-sr141tb-fm-sr141tbj-fm-sr141cu-str-fm-sr141cutn-coil-connector-fmcn1943-p.aspx>

The information contained in 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 implement 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 any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/17/2022	AGANWANI



THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

TITLE

SMA Male Bulkhead Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable

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

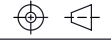
TOLERANCES:

.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

THIRD-ANGLE PROJECTION



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE

N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	PSRINIVAS	FMCN1943	A

T-Rev.D

## SMA Female Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable

SMA female connector with solder/solder attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR and FM-SR141CUTN-COIL, part number FMCN1941, from Fairview Microwave is in-stock and ships same day. This SMA female connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.2:1. The SMA female connector also has low passive intermodulation (PIM) of -155 dBc.

Fairview's SMA female connector FMCN1941 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
VSWR			1.2:1	
Passive Intermodulation			-155	dBc
DWV (AC)			750	Vrms

### Mechanical Specifications

<b>Size</b>	
Length	0.71 in [18.03 mm]
Width/Dia.	0.36 in [9.14 mm]
Height	0.36 in [9.14 mm]
Weight	0.008 lbs [3.63 g]

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Silver
Insulation	PTFE	
Body	Brass	Tri-Metal

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-40 to +155 deg C

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

### Plotted and Other Data

Notes:



### Configuration:

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR-141CUTN-COIL Interface Type
- Solder/Solder Attachment
- Low PIM Design

### Features:

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.2:1
- PIM levels better than -155 dBc
- Silver Plated Beryllium Copper Contact

### Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

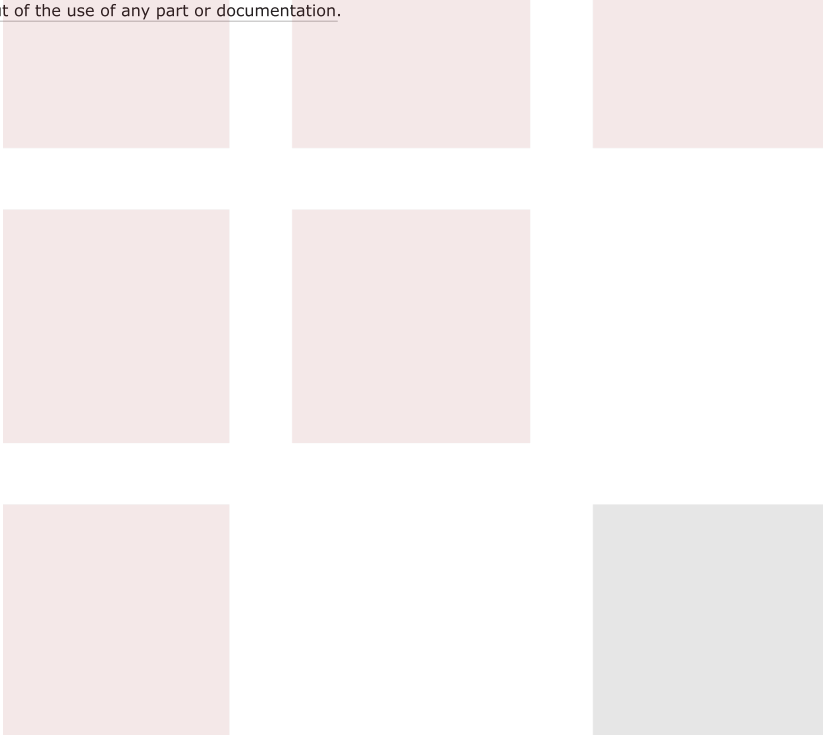
Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

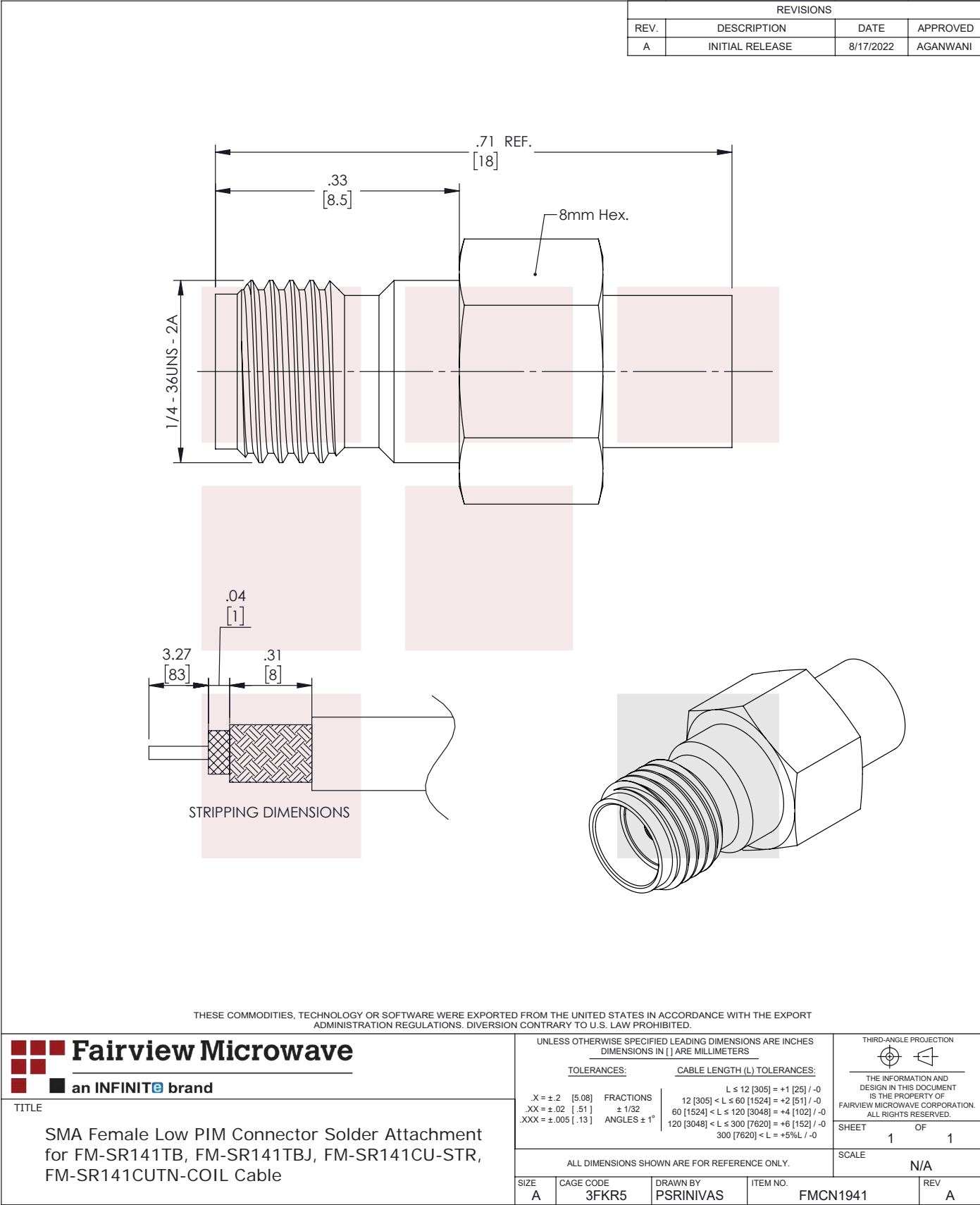
SMA Female Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Female Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable FMCN1941](#)

URL: <https://www.fairviewmicrowave.com/sma-female-fm-sr141tb-fm-sr141tbj-fm-sr141cu-str-fm-sr141cutn-coil-connector-fmcn1941-p.aspx>

The information contained in 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 implement 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 any liability arising out of the use of any part or documentation.





## .141 Semi-rigid Formable Coax Cable 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.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		20	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Shielding Effectiveness	110			dB
Inner Conductor DC Resist.			7.8	Ohms/1000ft
Outer Conductor DC Resist.			5.5	Ohms/1000ft
Nominal Capacitance		29		pF/ft
		[95.14]		[pF/m]

### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	20	GHz
Attenuation, Typ	8	12	29	45	70	dB/100ft
	26.25	39.37	95.14	147.64	229.66	dB/100m

### Mechanical Specifications

Min. Bend Radius (Repeated) 0.625 in [15.88 mm]

### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Silver, 1 Strands	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.119 in [3.02 mm]
First Shield	Tinned Copper Braid 100% coverage	0.141 in [3.58 mm]
Jacket	Silver	

### Environmental Specifications

#### Temperature

Operating Range -55 to 125 deg C



### 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  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

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

**Plotted and Other Data**

Notes:

.141 Semi-rigid Formable Coax Cable 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.

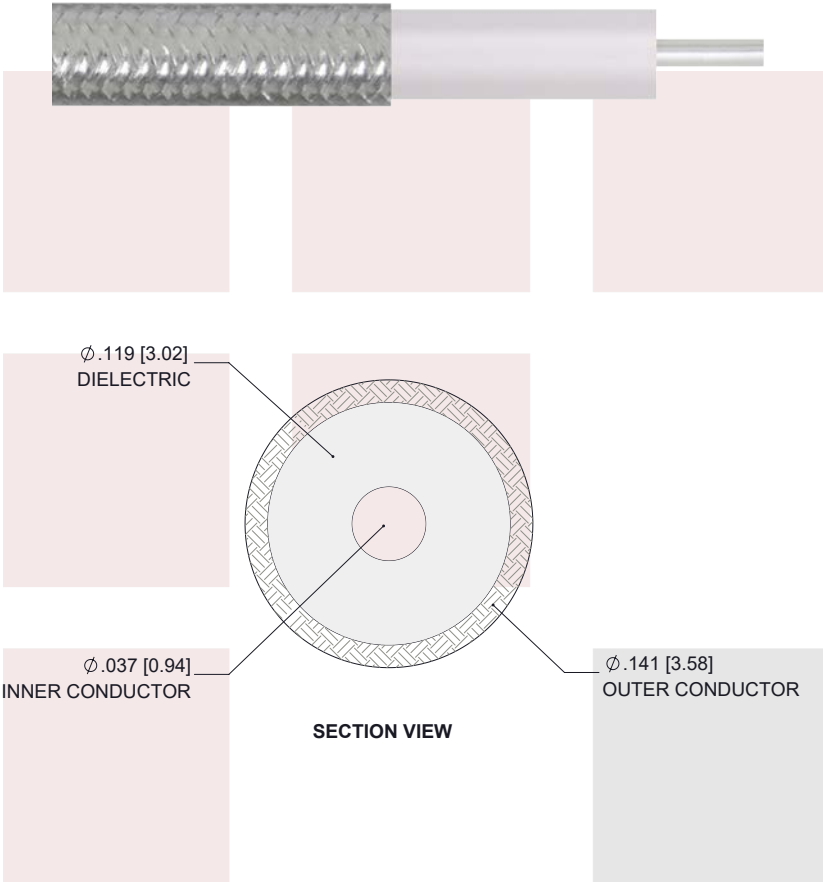
Click the following link to obtain additional part information: [.141 Semi-rigid Formable Coax Cable Jacket FM-SR141TB](#)

URL: <https://www.fairviewmicrowave.com/invalid-alias-formable-coax-cable-fm-sr141tb-p.aspx>

The information contained in 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 implement 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 any liability arising out of the use of any part or documentation.



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



THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

<div><div><div></div><div></div><div></div><div></div></div><div><div>Fairview Microwave</div><div>an INFINITE brand</div></div></div>		UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		THIRD-ANGLE PROJECTION 	
TITLE		TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
.141 Semi-rigid Formable Coax Cable Jacket		.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.		SHEET 1 OF 1	
				SCALE N/A	
SIZE	CAGE CODE	DRAWN BY	PART NUMBER	REV	
A	3FKR5	K.DANG	FM-SR141TB	A	

T-Rev.D