

3.5mm Female Connector Clamp/Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402

3.5mm Female Standard Connector Clamp/Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN and RG402 Cable, part number FMCN1826, from Fairview Microwave is in-stock and ships same day. This 3.5mm female connector operates up to a maximum frequency of 34 GHz and offers excellent VSWR of 1.2:1.

Fairview's 3.5mm female connector FMCN1826 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		34	GHz
VSWR			1.2:1	

Mechanical Specifications

Size	
Length	0.786 in [19.96 mm]
Width/Dia.	0.315 in [8.00 mm]
Height	0.5 in [12.7 mm]
Weight	0.012 lbs [5.44 g]

Material Specifications

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

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

Plotted and Other Data

Notes:



Configuration:

- 3.5mm Female Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 Interface Type
- Clamp/Solder Attachment

Features:

- Operating Frequency of 34 GHz Max.
- Excellent VSWR of 1.2:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

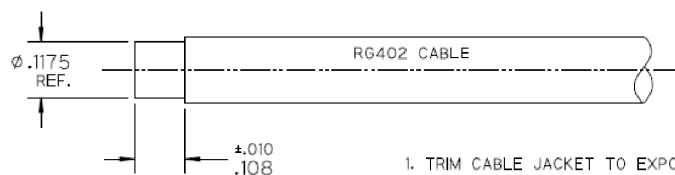
Applications:

- General Purpose Test
- Custom Cable Assemblies

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
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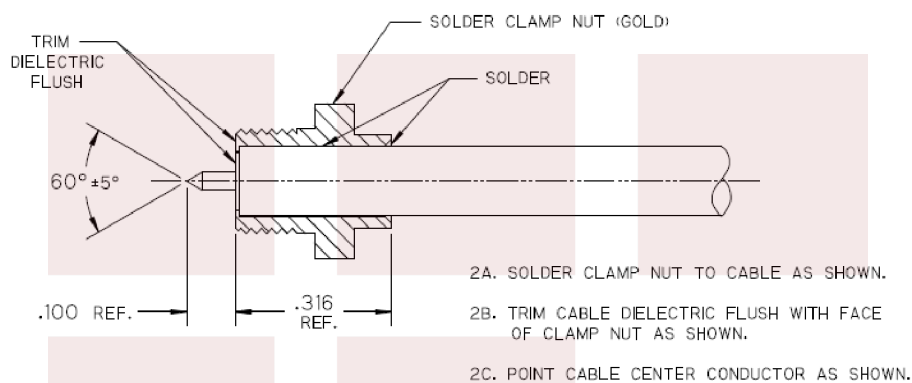
Assembly Instruction

STEP 1

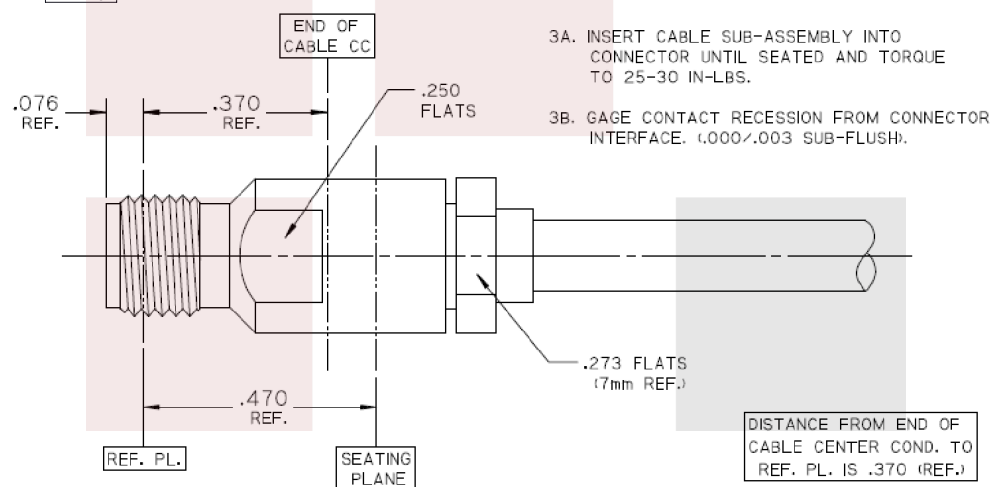


1. TRIM CABLE JACKET TO EXPOSE DIELECTRIC CORE AS SHOWN.

STEP 2



STEP 3

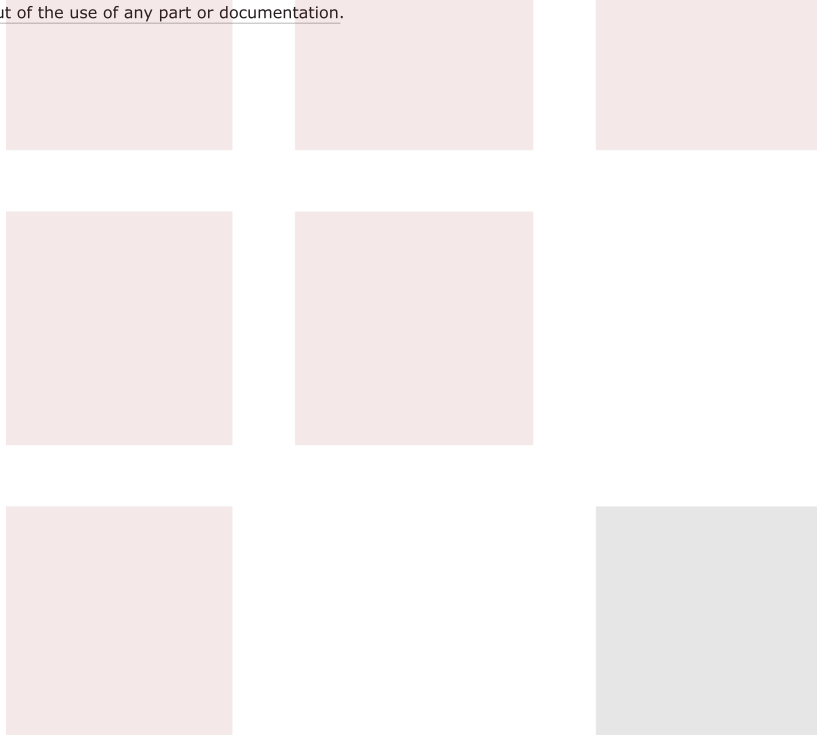


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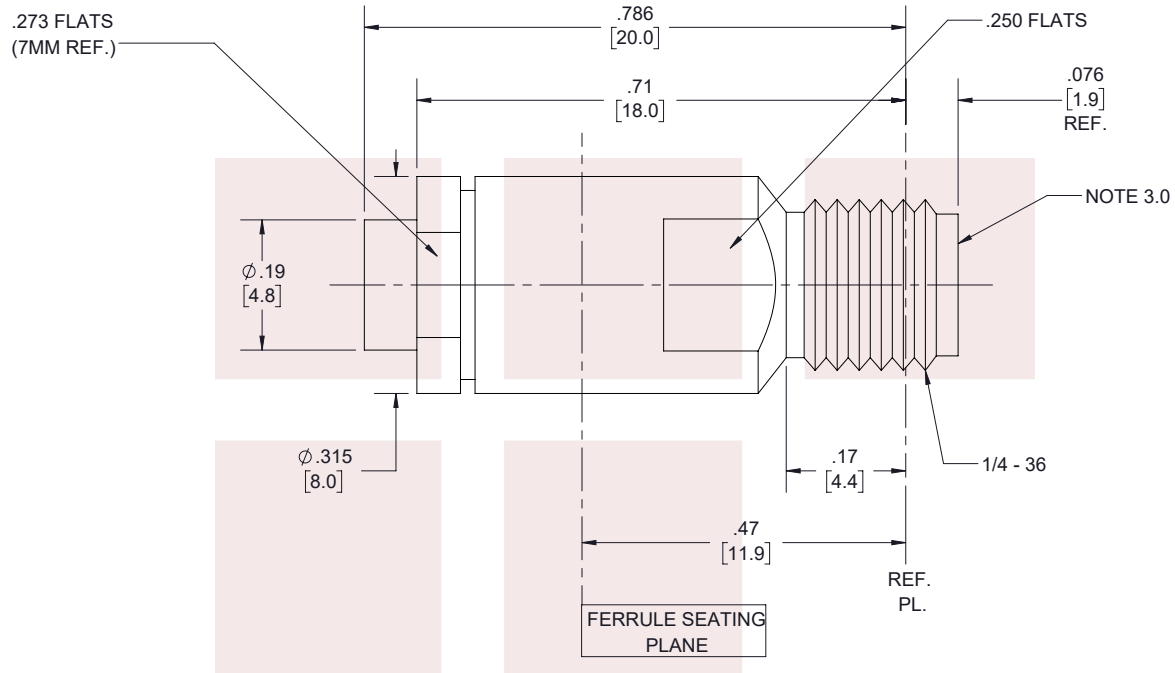
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/11/2022	A.GANWANI



NOTE:

DISTANCE FROM END OF CABLE
CENTER COND. TO REF. PL. IS 0.370

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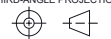
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DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
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THIRD-ANGLE PROJECTION



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SHEET 1 OF 2

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SIZE A	CAGE CODE 3FKR5	DRAWN BY K.GLEBOVA	ITEM NO. FMCN1826	REV A
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T-Rev.D

3.5mm Female Connector Clamp/Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402

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Material Specifications

Description	Material	Plating
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Body	Passivated Stainless Steel	SAE-AMS-2700

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

Plotted and Other Data

Notes:



Configuration:

- 3.5mm Female Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 Interface Type
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Features:

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

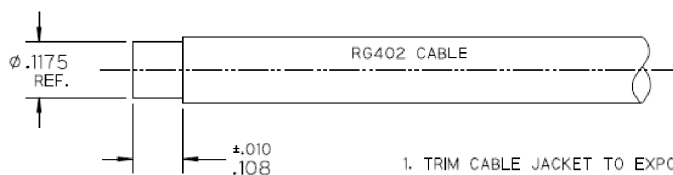
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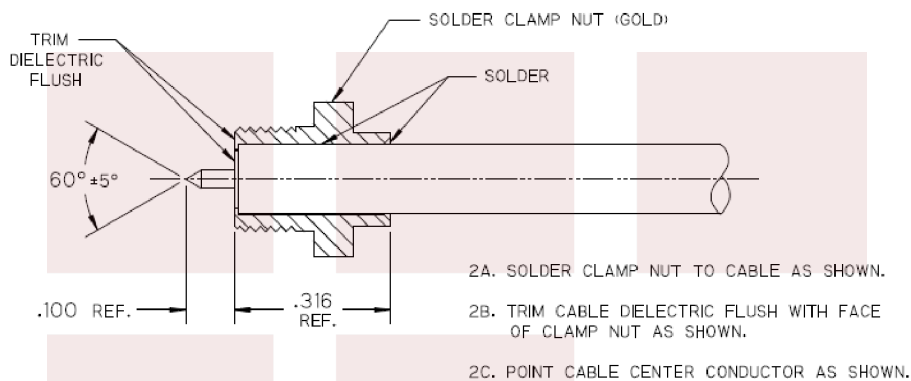
Assembly Instruction

STEP 1



1. TRIM CABLE JACKET TO EXPOSE DIELECTRIC CORE AS SHOWN.

STEP 2

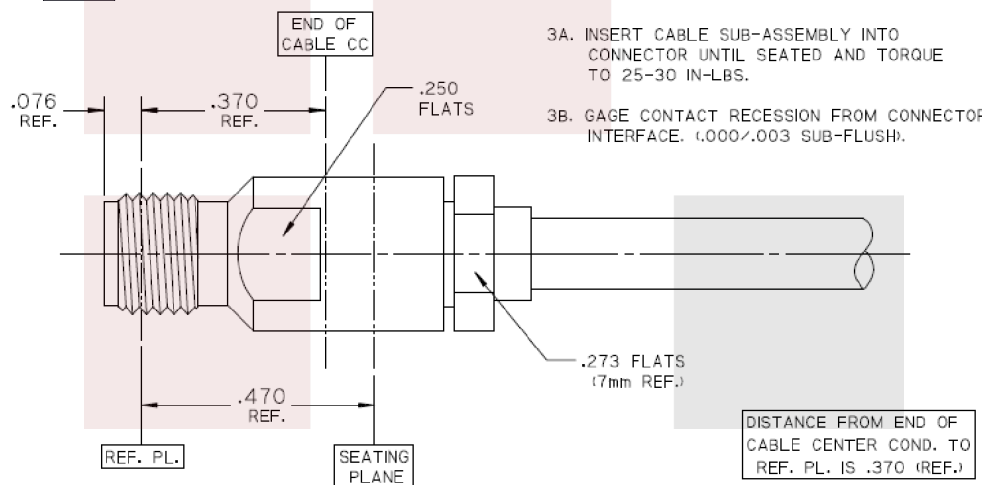


2A. SOLDER CLAMP NUT TO CABLE AS SHOWN.

2B. TRIM CABLE DIELECTRIC FLUSH WITH FACE OF CLAMP NUT AS SHOWN.

2C. POINT CABLE CENTER CONDUCTOR AS SHOWN.

STEP 3



3A. INSERT CABLE SUB-ASSEMBLY INTO CONNECTOR UNTIL SEATED AND TORQUE TO 25-30 IN-LBS.

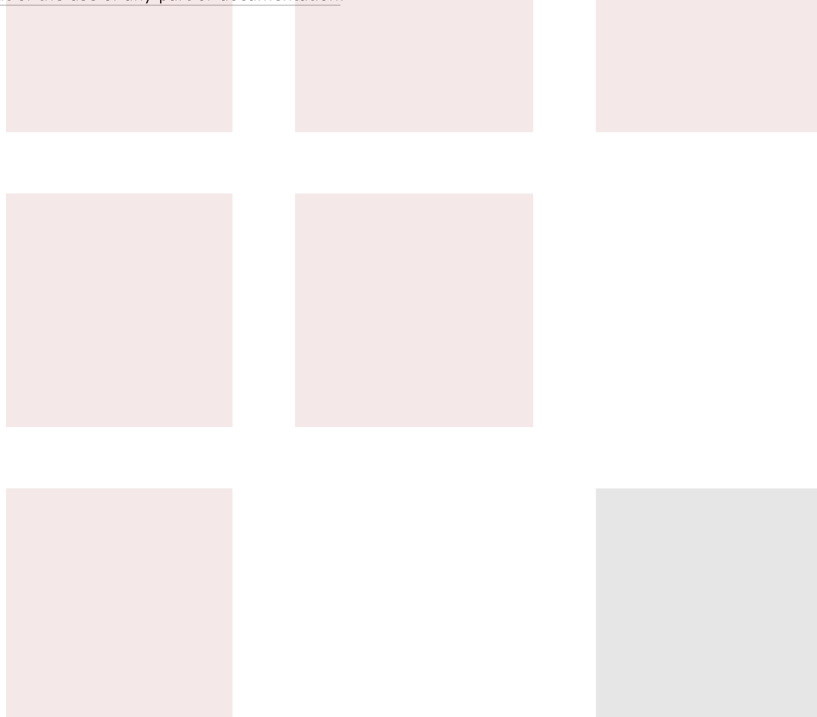
3B. GAGE CONTACT RECESSON FROM CONNECTOR INTERFACE (.000/.003 SUB-FLUSH).

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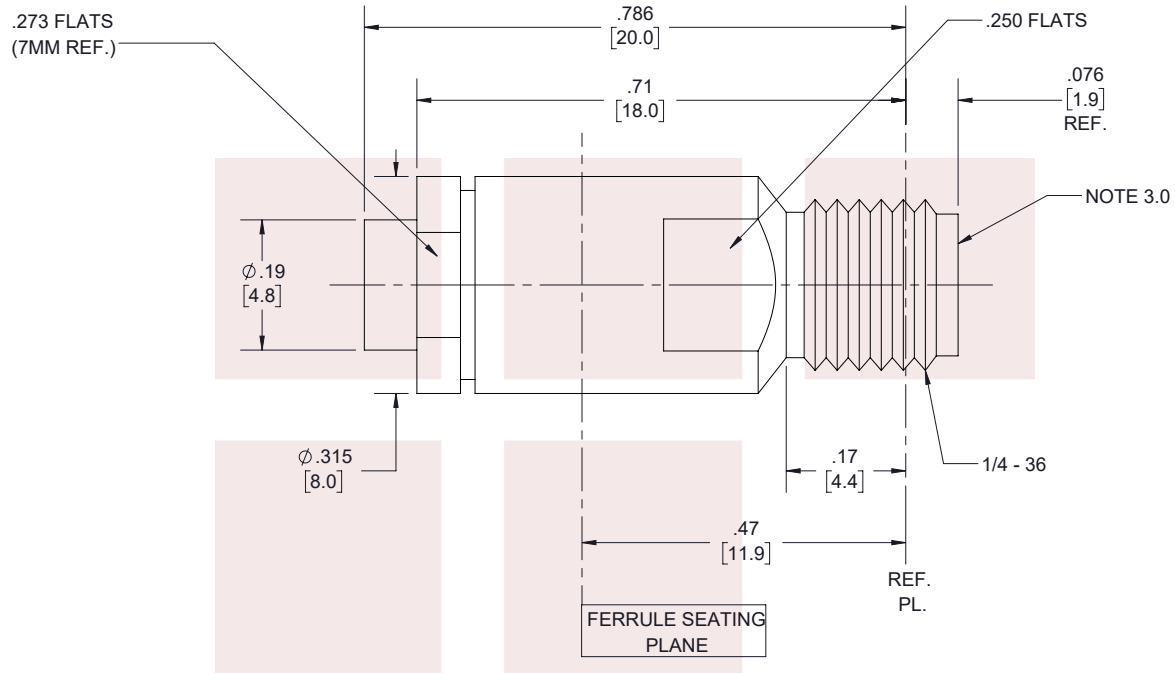
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A	INITIAL RELEASE	02/11/2022	A.GANWANI



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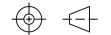
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THIRD-ANGLE PROJECTION



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SHEET 1 OF 2

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.GLEBOVA	ITEM NO. FMCN1826	REV A
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T-Rev.D

.141 Semi-rigid 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		20	GHz
Cutoff Frequency		34		GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Time Delay		1.43 [4.69]		ns/ft [ns/m]
Shielding Effectiveness	110			dB
Operating Voltage (AC)			1,900	Vrms
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	8 26.25	12 39.37	29 95.14	45 147.64	70 229.66	dB/100ft dB/100m

Mechanical Specifications

Diameter	0.161 in [4.09 mm]
Weight	0.032 lbs/ft [0.05 Kg/m]
Min. Bend Radius (Installation)	0.315 in [8 mm]
Min. Bend Radius (Repeated)	1.575 in [40.01 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strands	0.036 in [0.91 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.117 in [2.97 mm]
First Shield	Tinned Copper Braid	
Jacket	FEP, Black	0.161 in [4.09 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
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Environmental Specifications

Temperature

Operating Range -65 to 150 deg C

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

Plotted and Other Data

Notes:

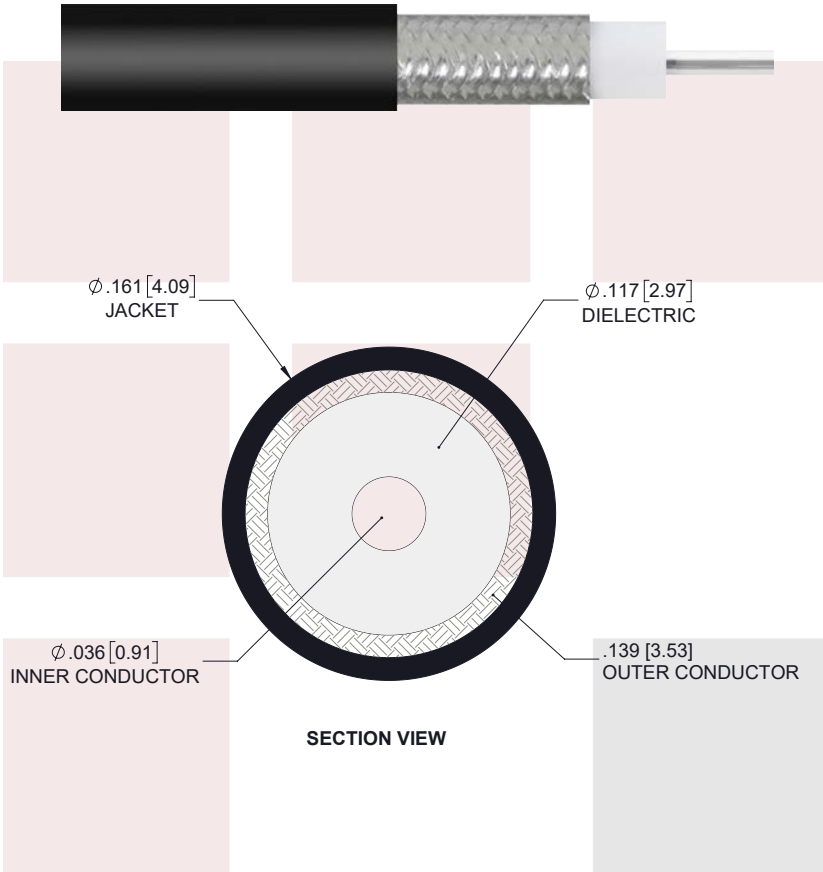
.141 Semi-rigid Formable Coax Cable Black FEP Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [.141 Semi-rigid Formable Coax Cable Black FEP Jacket FM-SR141TBJ](#)

URL: <https://www.fairviewmicrowave.com/fm-sr141tbj-formable-coax-cable-fep-jacket-fm-sr141tbj-p.aspx>

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A	INITIAL RELEASE	11/22/19	S.ELLIS



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					SCALE N/A	
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	PART NUMBER FM-SR141TBJ		REV A	

T-Rev.D