

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

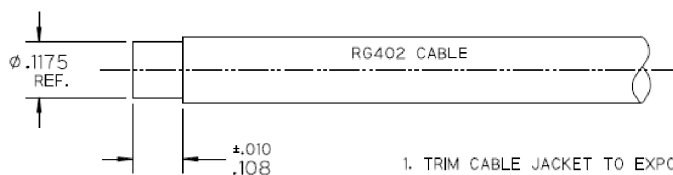
Applications:

- General Purpose Test
- Custom Cable Assemblies

Fairview Microwave
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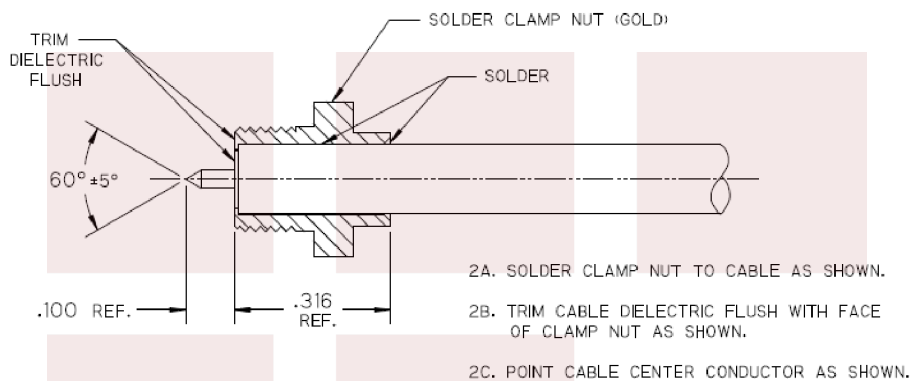
Assembly Instruction

STEP 1

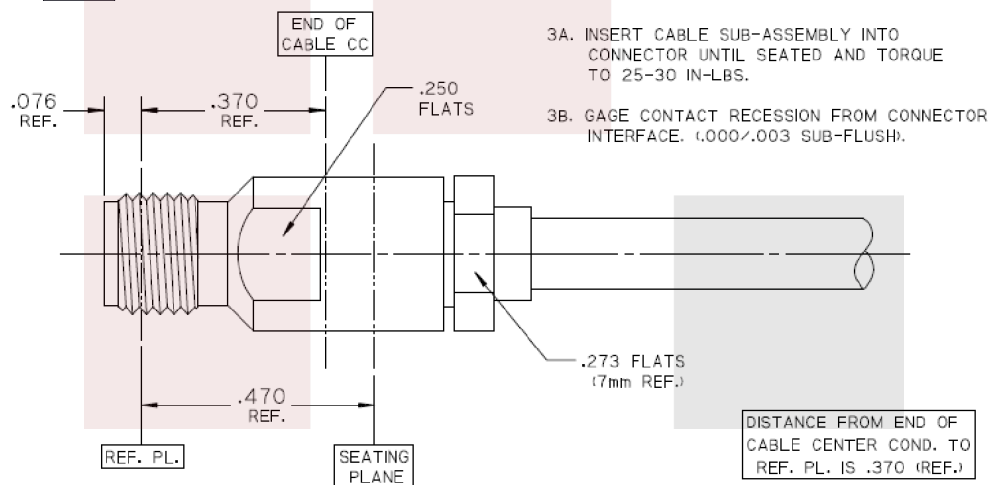


1. TRIM CABLE JACKET TO EXPOSE DIELECTRIC CORE AS SHOWN.

STEP 2



STEP 3

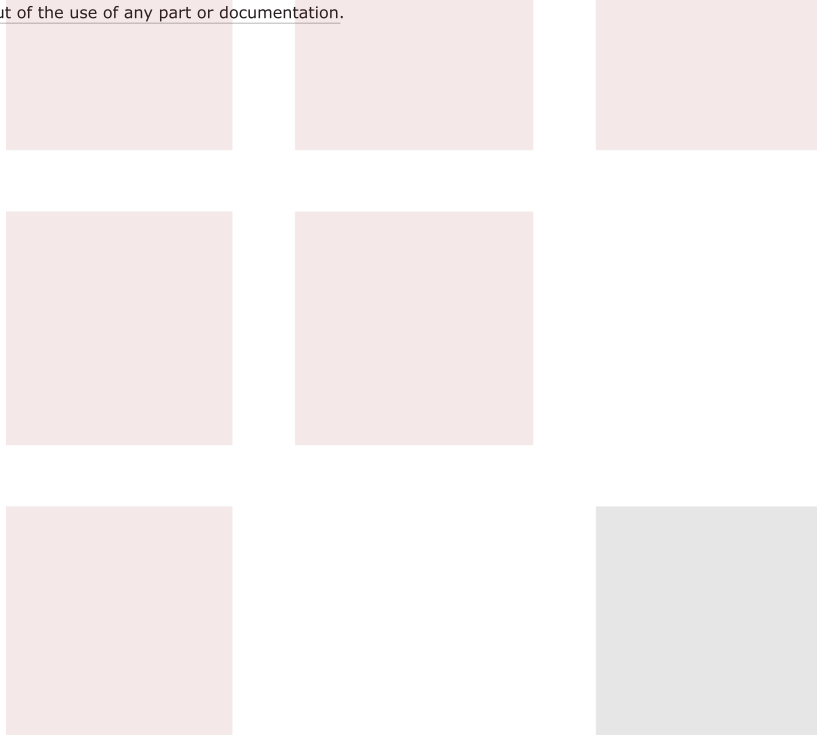


3.5mm Female Connector Clamp/Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

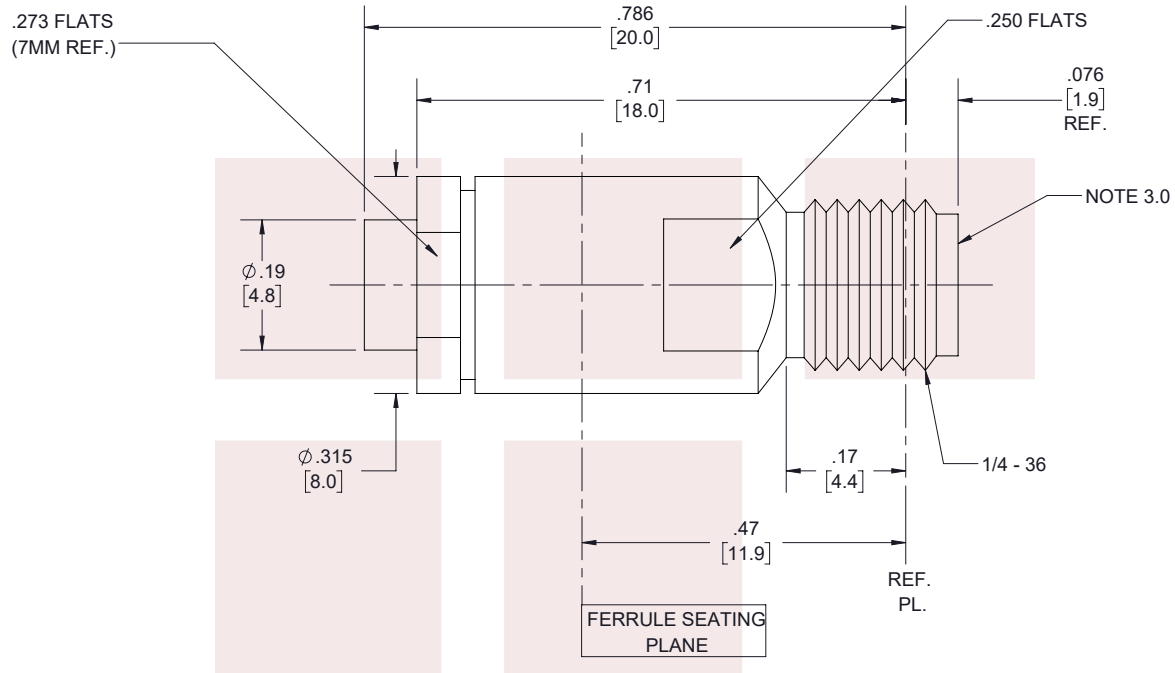
For additional information on this product, please click the following link: [3.5mm Female Connector Clamp/Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 FMCN1826](https://www.fairviewmicrowave.com/3.5mm-female-fm-sr141altn-fm-sr141tb-fm-sr141tbj-fm-sr141cutn-rg402-connector-fmcn1826-p.aspx)

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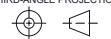
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

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

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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

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

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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]
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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
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Features:

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

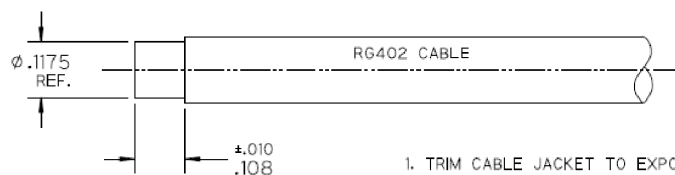
Applications:

- General Purpose Test
- Custom Cable Assemblies

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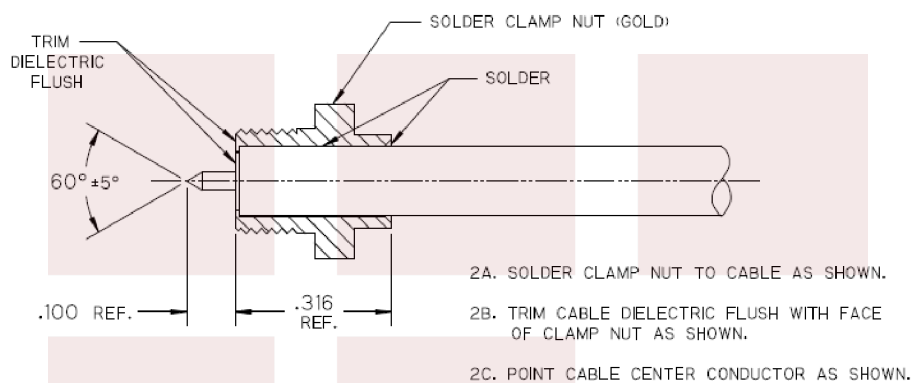
Assembly Instruction

STEP 1

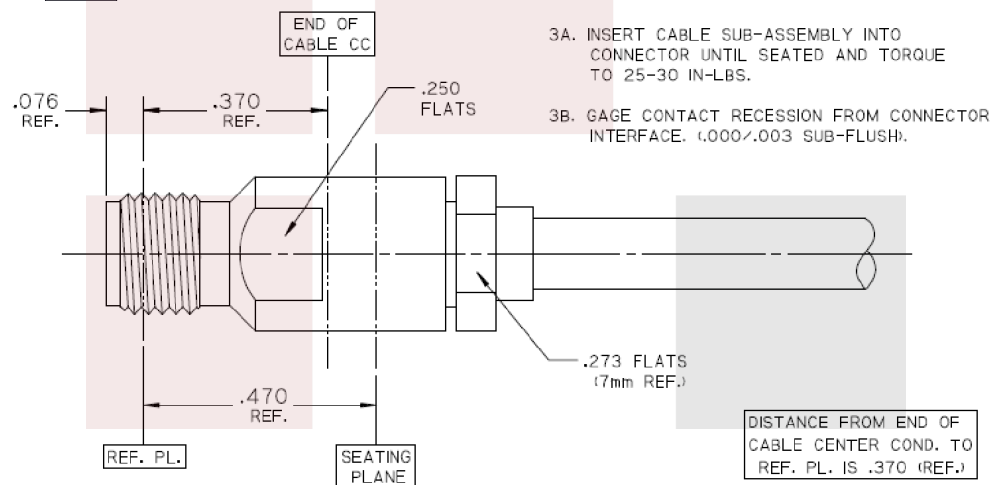


1. TRIM CABLE JACKET TO EXPOSE DIELECTRIC CORE AS SHOWN.

STEP 2



STEP 3

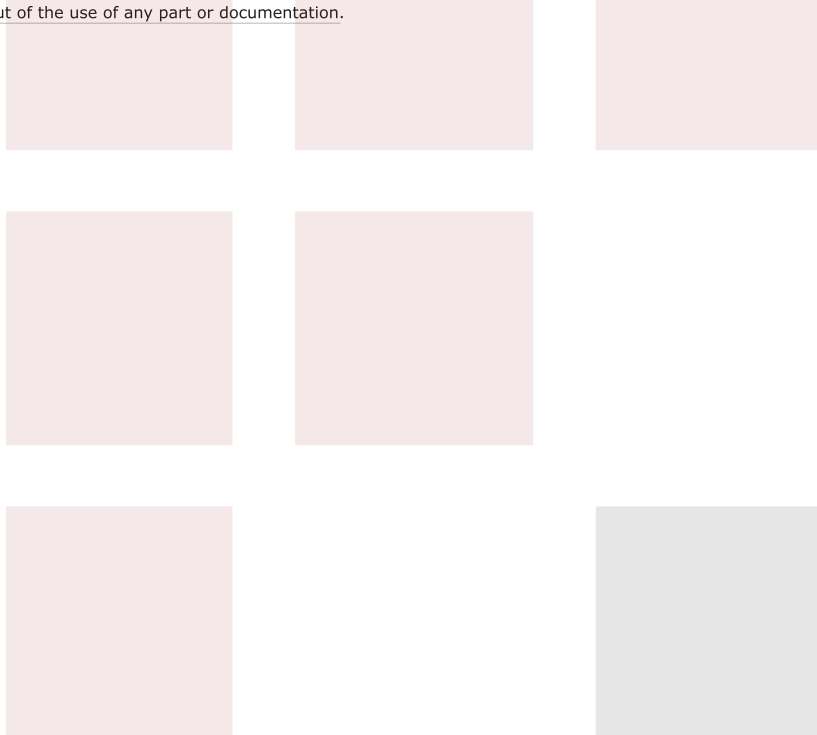


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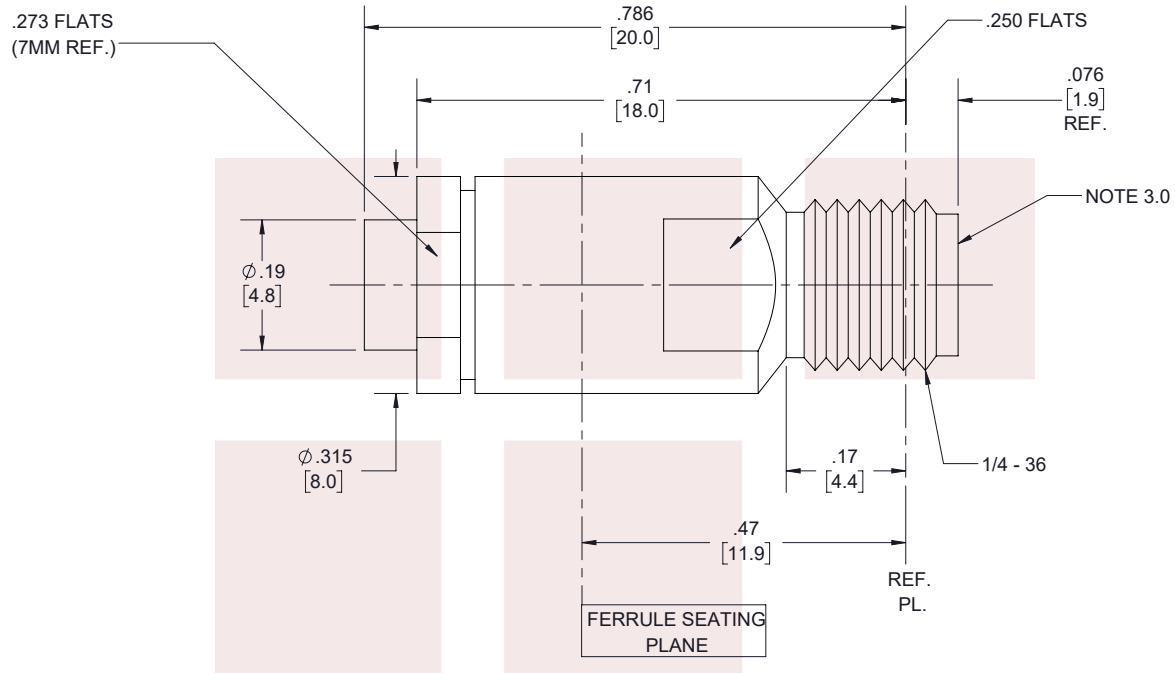
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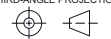
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THIRD-ANGLE PROJECTION



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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 Low Loss Semi-Rigid Coax Cable with Copper Outer Conductor and Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections

Low loss 141 semi-rigid coax cable, part number FMBC007, from Fairview Microwave is in-stock and ships same day. This .141 inch diameter semi-rigid cable features a microporous PTFE dielectric and operates to a maximum frequency of 34 GHz. The outer conductor of this semirigid low loss coaxial cable is constructed from a continuous copper tube which minimizes attenuation and maximizes RF shielding performance. The microporous (low density) PTFE dielectric also reduces attenuation and offers the added benefits of phase stability vs. temperature and improved thermal stability.

Improved thermal stability of this microporous semi-rigid cable allows it to be soldered with minimal dielectric expansion and stress on the connectors. Fairview's low loss semi-rigid coax with microporous PTFE, FMBC007, datasheet with specifications and outline drawing are shown in the PDF below. Our extensive offering of RF, microwave and millimeter wave connections allow designers to configure and customize their signals however they like. From creating phase stable connections to reducing cable attenuation, Fairview Microwave has the right cable solutions to meet your needs.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		34	GHz
Impedance		50		Ohms
Velocity of Propagation		76.5		%

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	18	GHz
Attenuation, Typ	7.5 24.61	10.5 34.45	24 78.74	34 111.55	46 150.92	dB/100ft dB/100m
Power In (CW), Max	820	580	240	170	130	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	20					GHz
Attenuation, Typ	52 170.6					dB/100ft dB/100m
Power In (CW), Max	115					Watts

Mechanical Specifications

Min. Bend Radius (Installation) 0.5 in [12.7 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Silver, 1 Strands ASTM B-298	0.04 in [1.02 mm]



Configuration:

- Low Loss Semi-Rigid Cable
- 1 Shield(s)

Features:

- Continuous Copper Outer Conductor
- Phase Stability vs. Temperature
- Low Density PTFE Dielectric
- Reduces Stress on Connectors
- High Isolation
- Supplied in 5 foot maximum straight lengths

Applications:

- Microporous Cable Assemblies
- Low Loss Interconnects
- High Isolation Cables
- Surface Mount
- Semi-Rigid Coaxial Cables

Fairview Microwave
 301 Leora Ln., Suite 100
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sales@fairviewmicrowave.com

Conductor Type	Solid	
Dielectric	Microporous PTFE	0.118 in [3 mm]
Outer Conductor	Copper	0.141 in [3.58 mm]

Environmental Specifications

Temperature

Operating Range -65 to +200 deg C

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

Plotted and Other Data

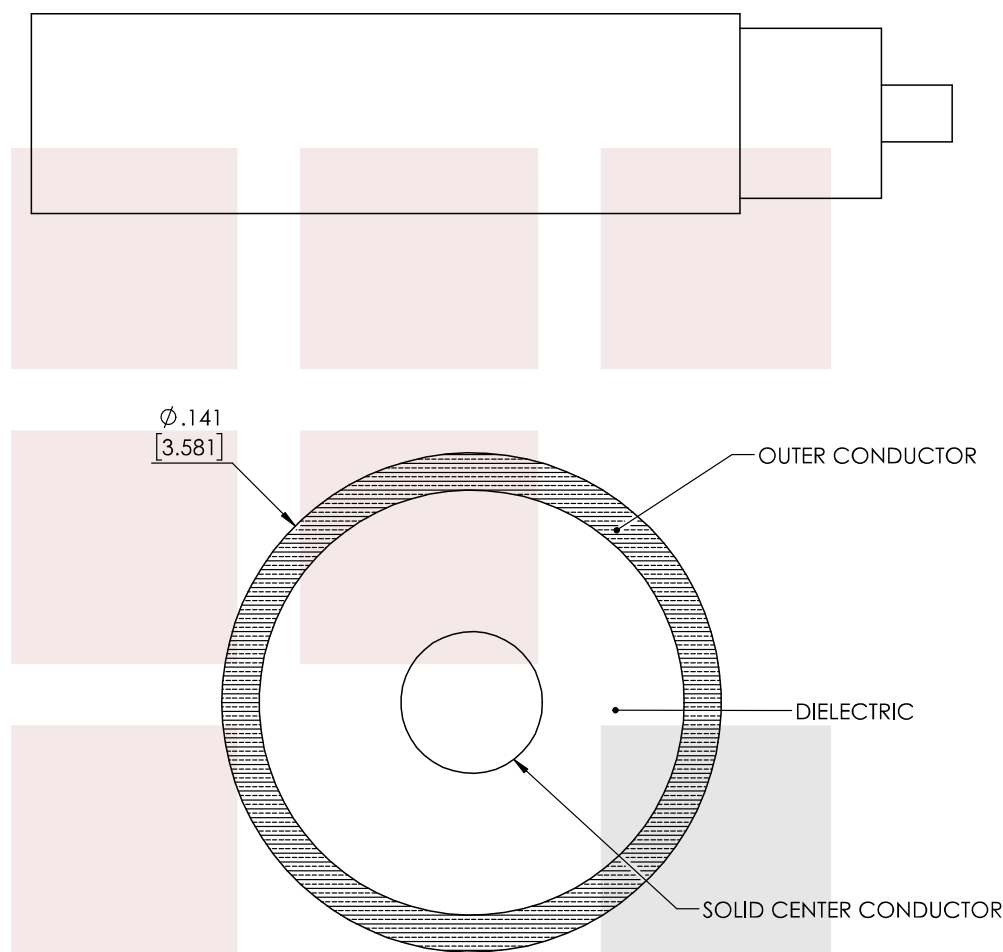
Notes:

.141 Low Loss Semi-Rigid Coax Cable with Copper Outer Conductor and Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections 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 Low Loss Semi-Rigid Coax Cable with Copper Outer Conductor and Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections FMBC007](#)

URL: <https://www.fairviewmicrowave.com/141-low-loss-semirigid-coax-cable-copper-straight-fmbc007-p.aspx>

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STANDARD TOLERANCES

.X ± 0.2
.XX ± 0.01
.XXX ± 0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC.

ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE

.141 Low Loss Semi-Rigid Coax Cable with Copper
Outer Conductor and Microporous PTFE 76.5 pct VoP
Dielectric, Straight Sections

DWG NO

FMBC007

CAGE CODE

3FKR5

CAD FILE 06/14/18

SHEET

SCALE N/A

SIZE A

CN2245