

2.92mm Male Connector Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141CUTN, RG402

2.92mm male connector with solder attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141CUTN and RG402, part number FMCN1919, from Fairview Microwave is in-stock and ships same day.

Fairview's 2.92mm male connector FMCN1919 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 | 0.37 in [9.4 mm] |
| Width/Dia. | 0.32 in [8.13 mm] |
| Height | 0.32 in [8.13 mm] |
| Weight | 0.006 lbs [2.72 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 | Stainless Steel | Gold over Nickel 50 µin minimum |
| Coupling Nut | Stainless Steel | Gold over Nickel 50 µin minimum |

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

Plotted and Other Data

Notes:



Configuration:

- 2.92mm Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR141ALTN, FM-SR141TB, FM-SR141CUTN, RG402 Interface Type
- 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

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2.92mm Male Connector Solder Attachment for FM-SR141ALTN, FM-SR141TB, 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.

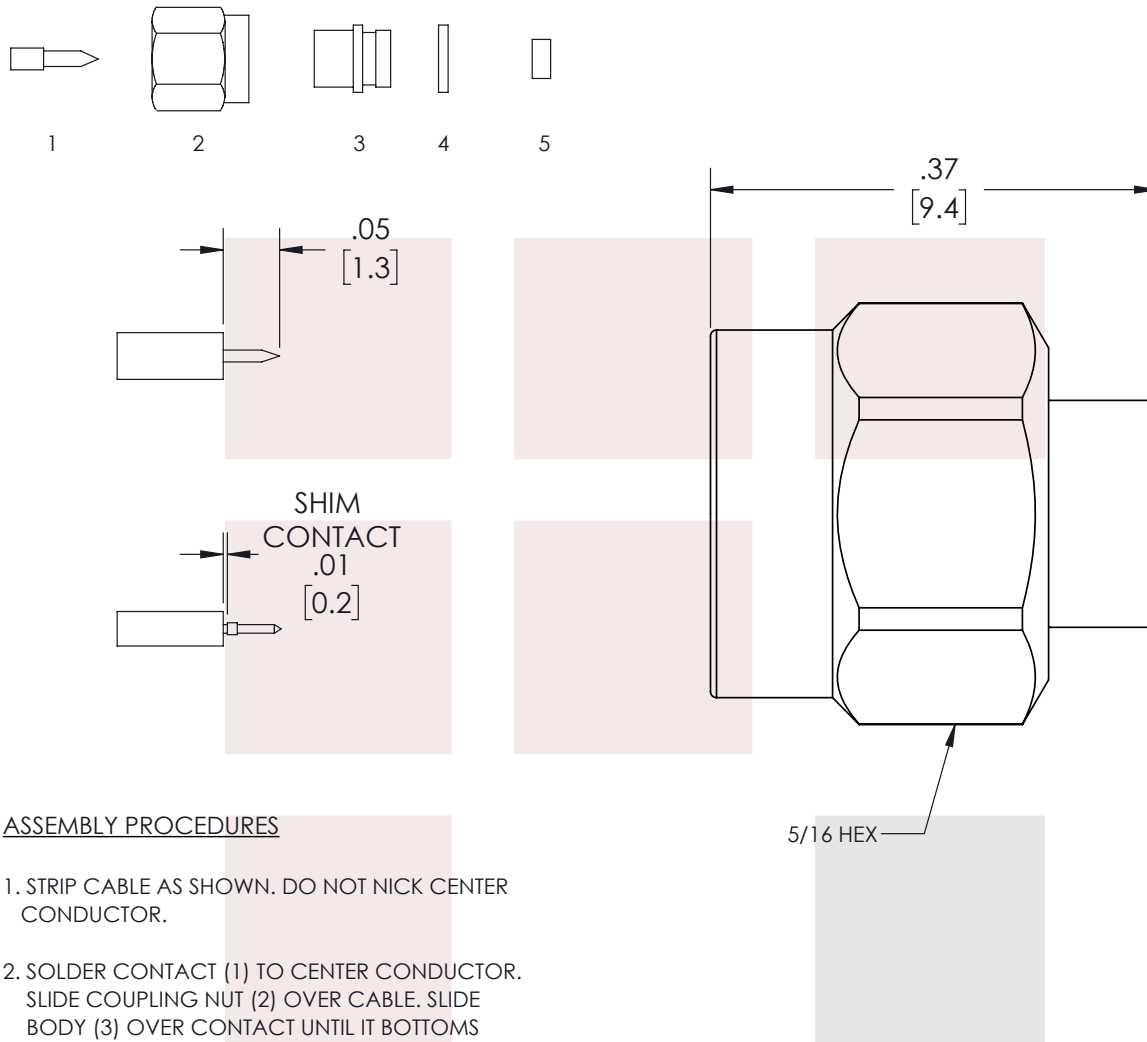
For additional information on this product, please click the following link: [2.92mm Male Connector Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141CUTN, RG402 FMCN1919](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-male-fm-sr141altn-fm-sr141tb-fm-sr141cutn-rg402-connector-fmcn1919-p.aspx>

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| REVISIONS | | | |
|-----------|-----------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 06/07/22 | AGANWANI |



ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SOLDER CONTACT (1) TO CENTER CONDUCTOR. SLIDE COUPLING NUT (2) OVER CABLE. SLIDE BODY (3) OVER CONTACT UNTIL IT BOTTOMS OUT TO OUTER CONDUCTOR. SOLDER BODY (3) TO OUTER CONDUCTOR.
3. INSTALL GASKET (4) ONTO BODY (3). INSERT INSULATOR (5) INTO BODY (3) & SLIDE COUPLING NUT OVER ASSEMBLY.

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| | | | | | |
|--|--|--|--|--|--|
| <p>Fairview Microwave an INFINITE brand</p> | | <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> | | <p>THIRD-ANGLE PROJECTION</p> | |
| <p>TITLE</p> | | <p>TOLERANCES:</p> | | <p>CABLE LENGTH (L) TOLERANCES:</p> | |
| <p>2.92mm Male Connector Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141CUTN, RG402</p> | | <p> $.X = \pm .2$ [5.08] FRACTIONS $.XX = \pm .02$ [.51] $\pm 1/32$ $.XXX = \pm .005$ [.13] ANGLES $\pm 1^\circ$ </p> | | <p> $L \leq 12$ [305] = ± 1 [25] / -0 12 [305] < $L \leq 60$ [1524] = ± 2 [51] / -0 60 [1524] < $L \leq 120$ [3048] = ± 4 [102] / -0 120 [3048] < $L \leq 300$ [7620] = ± 6 [152] / -0 300 [7620] < L = $\pm 5\%L$ / -0 </p> | |
| <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | | <p>SCALE</p> | | <p>SHEET 1 OF 1</p> | |
| <p>SIZE A</p> | | <p>CAGE CODE 3FKR5</p> | | <p>DRAWN BY VTHANGARAJ</p> | |
| <p>ITEM NO. FMCN1919</p> | | <p>REV A</p> | | <p>N/A</p> | |

T-Rev.D

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

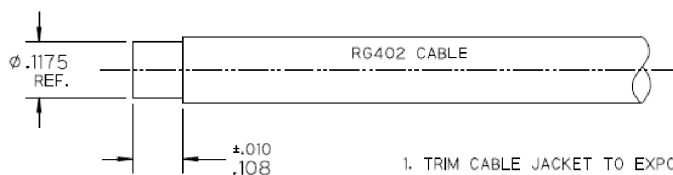
Applications:

- General Purpose Test
- Custom Cable Assemblies

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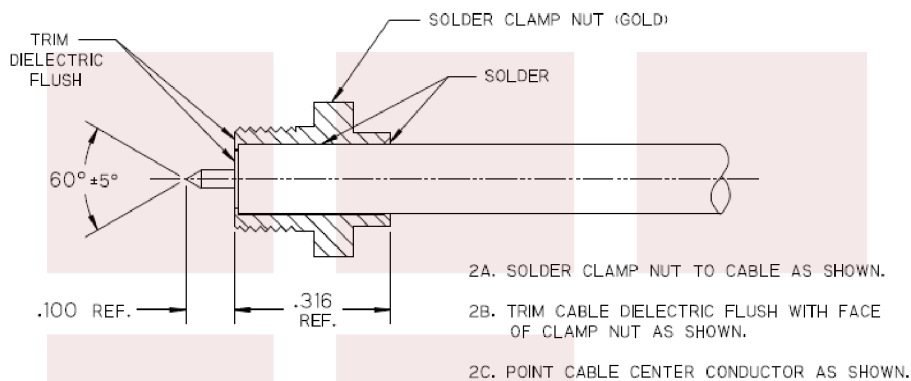
Assembly Instruction

STEP 1

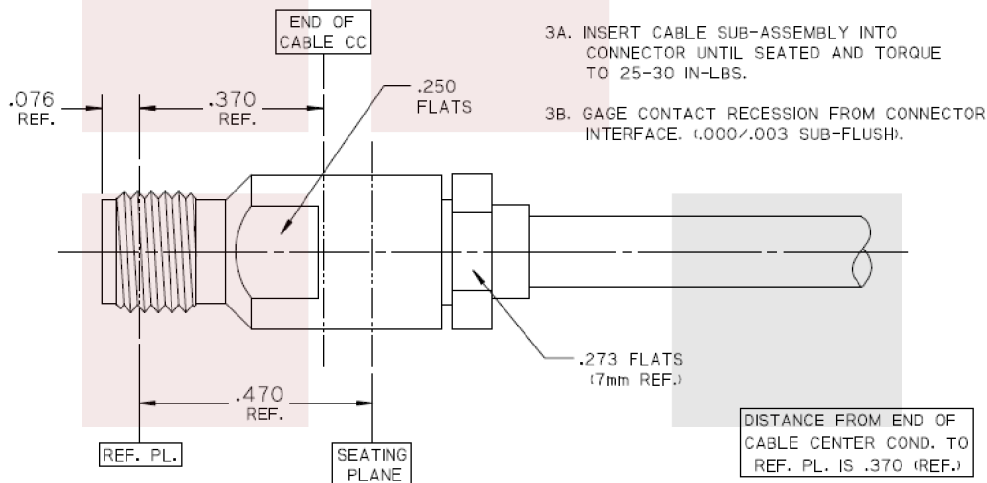


1. TRIM CABLE JACKET TO EXPOSE DIELECTRIC CORE AS SHOWN.

STEP 2



STEP 3

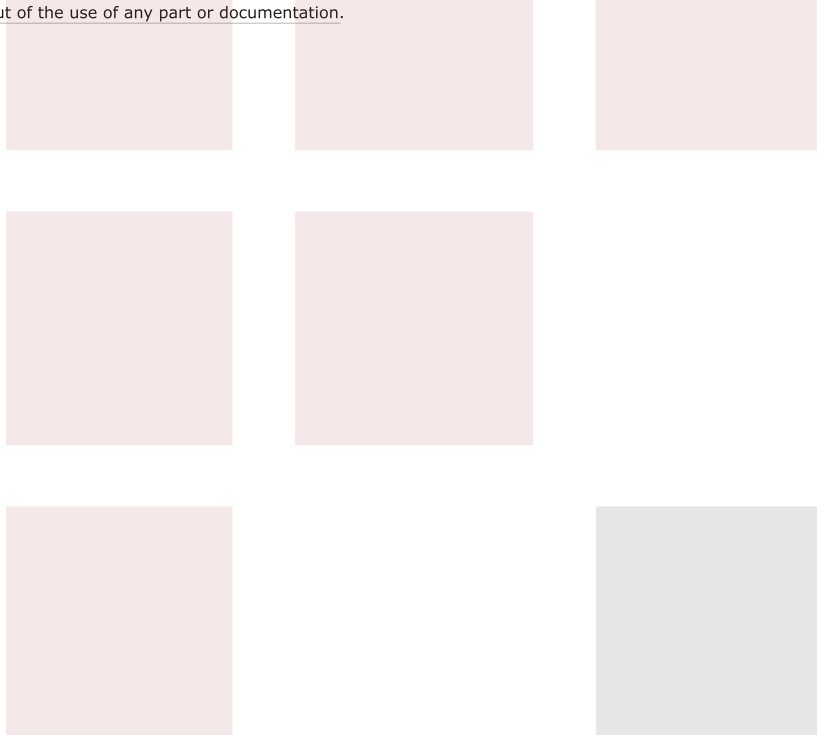


3.5mm Female Connector Clamp/Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas.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

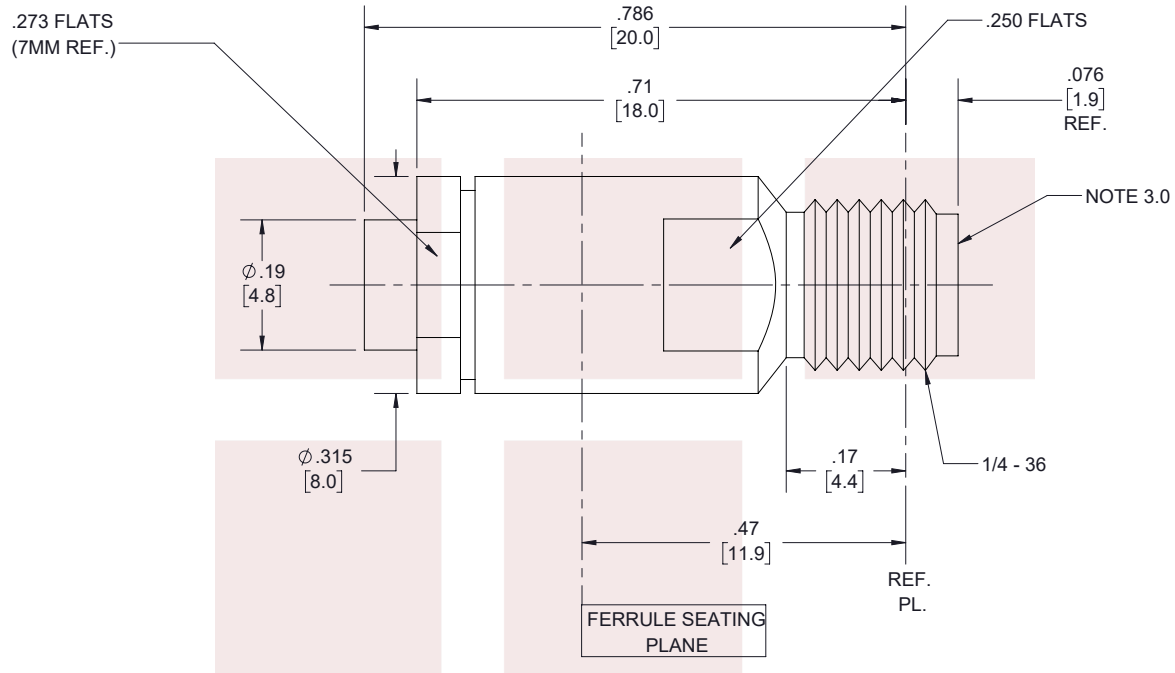
For additional information on this product, please click the following link: [3.5mm Female Connector Clamp/Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 FMCN1826](https://www.fairviewmicrowave.com/3.5mm-female-fm-sr141altn-fm-sr141tb-fm-sr141tbj-fm-sr141cutn-rg402-connector-fmcn1826-p.aspx)

URL: <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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ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

TITLE

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

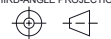
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

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 |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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DESIGN IN THIS DOCUMENT
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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 |
|-----------|--------------------|-----------------------|----------------------|----------|

T-Rev.D

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

Low loss 141 semi-rigid coax cable, part number FMBC008, 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, FMBC008, 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

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sales@fairviewmicrowave.com

| | | |
|-----------------|--------------------------|--------------------|
| Conductor Type | Solid | |
| Dielectric | Microporous PTFE | 0.118 in [3 mm] |
| Outer Conductor | Copper, Tin ASTM B545 | 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

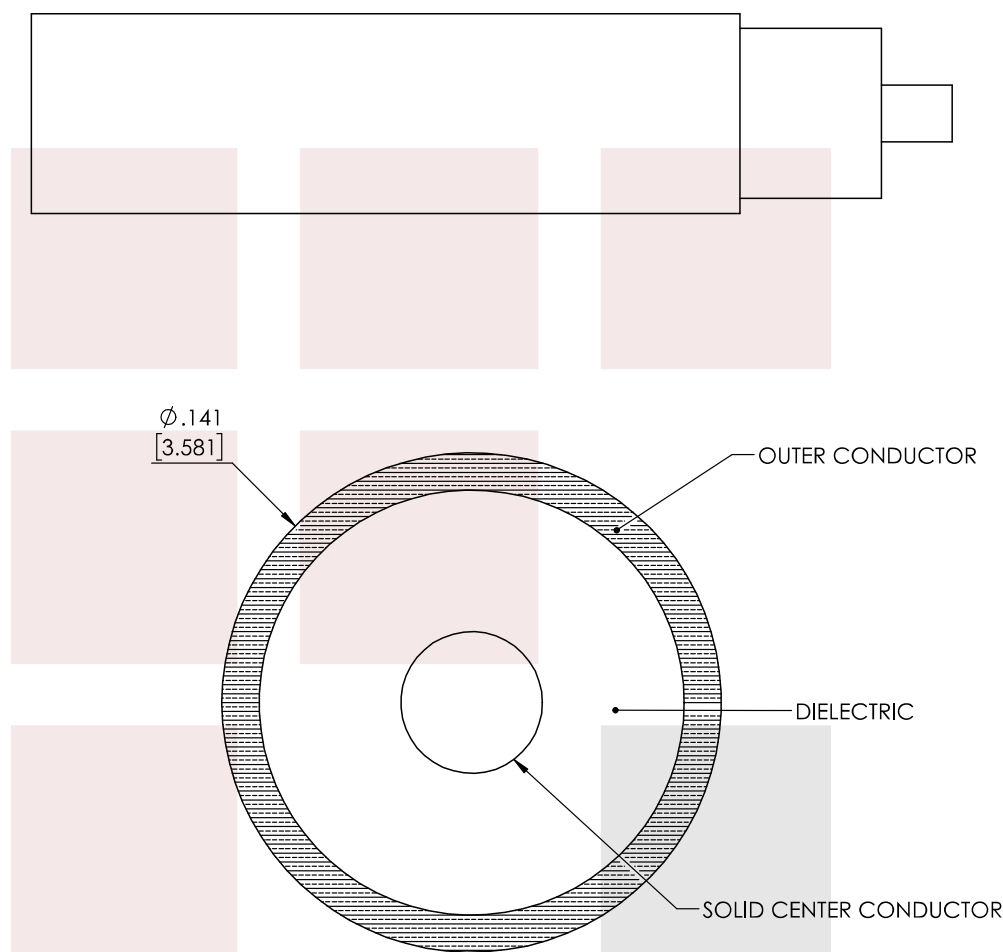
Notes:

.141 Low Loss Semi-Rigid Coax Cable with Tin Plated 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 Tin Plated Copper Outer Conductor and Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections FMBC008](#)

URL: <https://www.fairviewmicrowave.com/141-low-loss-semirigid-coax-cable-tin-plated-copper-straight-fmbc008-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 Tin Plated
Copper Outer Conductor and Microporous PTFE 76.5
pct VoP Dielectric, Straight Sections

DWG NO

FMBC008

CAGE CODE

3FKR5

CAD FILE 06/15/18

SHEET

SCALE N/A

SIZE A

CN2245