

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

Low loss 070 semi-rigid coax cable, part number FMBC004, from Fairview Microwave is in-stock and ships same day. This .070 inch diameter semi-rigid cable features a microporous PTFE dielectric and operates to a maximum frequency of 72 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, FMBC004, 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		72	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	14	20	45	64	87	dB/100ft
	45.93	65.62	147.64	209.97	285.43	dB/100m
Power In (CW), Max	265	188	83	58	43	Watts

Mechanical Specifications

Min. Bend Radius (Installation) 0.25 in [6.35 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Silver, 1 Strands ASTM B-298	0.02 in [0.51 mm]
Conductor Type	Solid	
Dielectric	Microporous PTFE	0.059 in [1.5 mm]
Outer Conductor	Copper, Tin ASTM B545	0.07 in [1.78 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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Environmental Specifications

Temperature

Operating Range -65 to +250 deg C

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

Plotted and Other Data

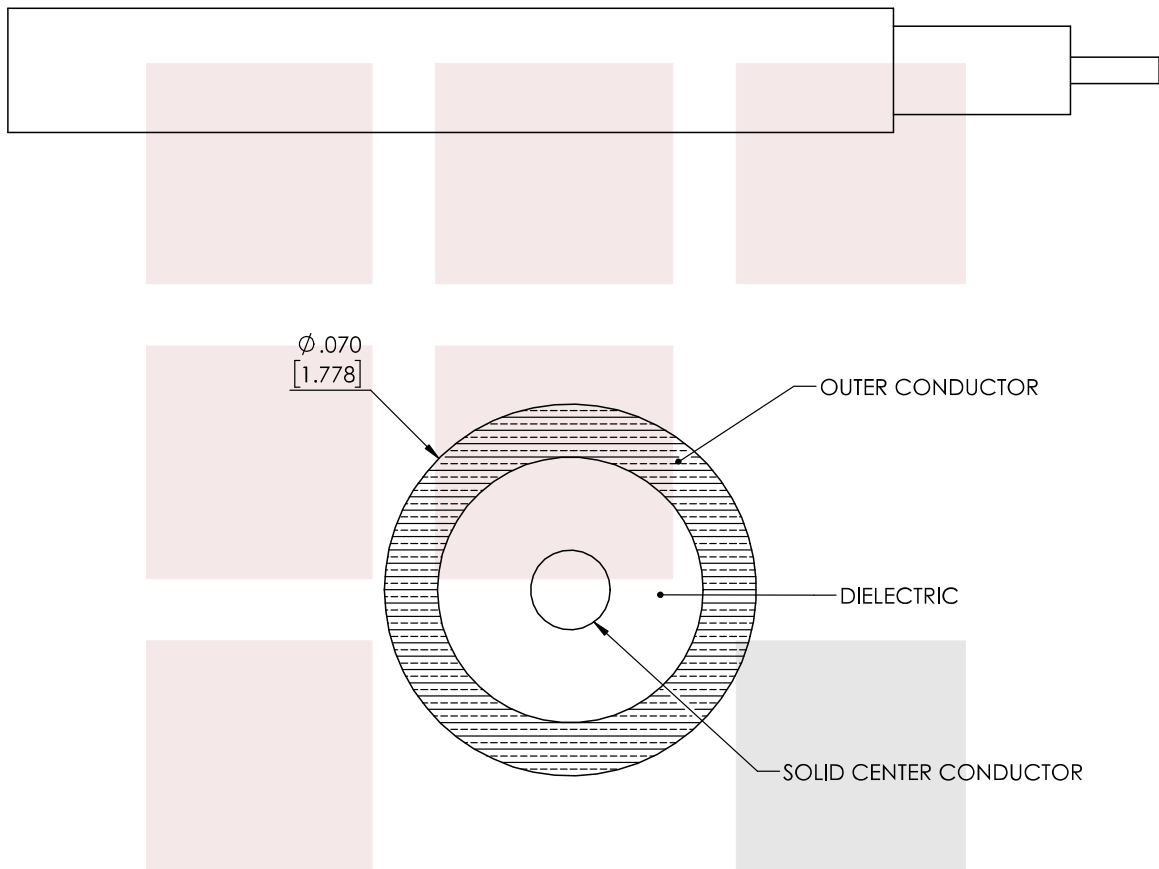
Notes:

.070 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: [.070 Low Loss Semi-Rigid Coax Cable with Tin Plated Copper Outer Conductor and Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections FMBC004](#)

URL: <https://www.fairviewmicrowave.com/070-low-loss-semirigid-coax-cable-tin-plated-copper-straight-fmbc004-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.



STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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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

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Copper Outer Conductor and Microporous PTFE 76.5
pct VoP Dielectric, Straight Sections

DWG NO

FMBC004

CAGE CODE

3FKR5

CAD FILE 05/23/18

SHEET

SCALE N/A

SIZE A

CN2245