Fairview Microwave

an INFINIT[®] brand

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

Low loss 047 semi-rigid coax cable, part number FMBC002, from Fairview Microwave is in-stock and ships same day. This .047 inch diameter semi-rigid cable features a microporous PTFE dielectric and operates to a maximum frequency of 115 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, FMBC002, 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

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Description	Min	Т	ур	Max	U	nits
Frequency Range	DC			115	(GHz
Impedance		50	±2		0	hms
Velocity of Propagation		76	5.5			%

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	5	10	18	26.5	GHz
Attenuation, Typ	21 68.9	68 223.1	96 314.96	130 426.51	160 524.93	dB/100ft dB/100m
Power In (CW), Max	110	32	21	16	13	Watts

Mechanical Specifications

Min. Bend Radius (Installation)

0.125 in [3.18 mm]

Construction Specifications

Description	Material and Plating	Diameter		
Inner Conductor	Copper, Silver, 1 Strands ASTM B-298	0.013 in [0.33 mm]		
Conductor Type	Solid			
Dielectric	Microporous PTFE	0.037 in [0.94 mm]		
Outer Conductor	Copper, Tin MIL-T-10727	0.047 in [1.19 mm]		



FMBC002

DATA SHEET

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 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 +225 deg C

Compliance Certifications (see product page for current document)

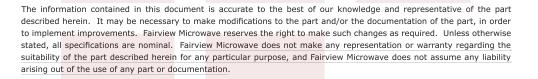
Plotted and Other Data

Notes:

.047 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.

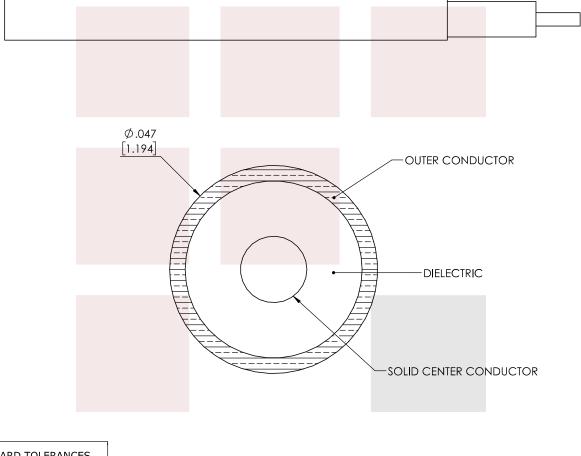
Click the following link to obtain additional part information: .047 Low Loss Semi-Rigid Coax Cable with Tin Plated Copper Outer Conductor and Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections FMBC002

URL: https://www.fairviewmicrowave.com/047-low-loss-semirigid-coax-cable-tin-plated-copper-straight-fmbc002-p.aspx









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].				
.047 Low Loss Semi-Rigid Coax Cable with Tin Plated Copper Outer Conductor and Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections	dwg no FMBC002			CAGE CODE 3FKR5	
	CAD FILE 06/14/18	SHEET	SCAL	.e n/a size a	CN2245

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