

## FMBC005-FT DATA SHEET

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

Low loss 086 semi-rigid coax cable, part number FMBC005, from Fairview Microwave is in-stock and ships same day. This .086 inch diameter semi-rigid cable features a microporous PTFE dielectric and operates to a maximum frequency of 62 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, FMBC005, 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**

Min	Тур	Max	Units
DC		62	GHz
	50		Ohms
	76.5		%
		DC 50	DC 62 50

## **Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	5	10	18	26.5	GHz
Attenuation, Typ	12 39.37	39 127.95	56 183.73	77 252.62	96 314.96	dB/100ft dB/100m
Power In (CW), Max	340	105	73	54	44	Watts

#### **Mechanical Specifications**

Min. Bend Radius (Installation)

0.25 in [6.35 mm]

## **Construction Specifications**

Description	Material and Plating	Diameter	
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Inner Conductor	Copper, Silver, 1 Strands ASTM B-298	0.023 in [0.58 mm]	
Conductor Type	Solid		
Dielectric	Microporous PTFE	0.066 in [1.68 mm]	
Outer Conductor	Copper	0 in [0 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 +225 deg C

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:

.086 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 millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: .086 Low Loss Semi-Rigid Coax Cable with Copper Outer Conductor and Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections FMBC005-FT

URL: https://www.fairviewmicrowave.com/086-low-loss-semirigid-coax-cable-copper-straight-fmbc005-ft-p.aspx

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