

## UMCX 2.1 Plug to UMCX 2.1 Plug Cable 0.81mm Coax in 9 Inch and RoHS Compliant

Fairview Microwave's UMCX 2.1 (also known as 2.1mm UMCX) ultra-miniature cable assemblies have a mate connection height of 2.1mm. They are constructed using flexible micro-coax cable and are comparable in design to Hirose U.FL®, IPEX MHF® as well other UMCX connector and cable manufactures. Fairview's other UMCX 2.5, WMCX and HMCX32 1.2 connectors are also available for use on our 0.81mm in-series micro-coax jumpers.

With operational frequencies up to 6 GHz, these UMCX cables are perfectly suited for wireless communications such as Wi-Fi, Bluetooth, GPS, ZigBee and LTE. These cables offer a small form factor, flexible coax and provide a low profile RF connection perfect for board-to-board connectivity. Fairview's UMCX 2.1 cable assemblies are available from stock in standard lengths and will ship same-day they are ordered. Custom lengths are also available upon request with slightly longer lead times.

### Electrical Specifications

Frequency Range	DC to 6 GHz
Impedance	50 Ohms
Max VSWR	1.55

### Performance by Frequency

Description	F1	F2	F3	F4	F5
Frequency	250 MHz	500 MHz	1000 MHz	2.5 GHz	6 GHz
VSWR	1.4:1	1.4:1	1.4:1	1.4:1	1.55:1
Return Loss (dB)	15.56	15.56	15.56	15.56	13.32
Insertion Loss (dB/ft)	0.55	0.78	1.25	1.9	2.89
(dB/m)	1.8	2.56	4.1	6.23	9.48

### Mechanical Specifications

<b>Temperature</b>	
Temperature Operating Range	-55 to +125 deg C

<b>Size</b>	
Length	9 in [228.6 mm]

### Cable

Description	Cable
Cable Type	0.81mm
Inner Conductor Type	Stranded
Cable Inner Conductor	Copper, Silver
No of Shields	1
Cable Outer Conductor 1	Tinned Copper
Dielectric Type	FEP
Jacket Material	FEP
Jacket Diameter	0.032 in [0.81 mm]



### Configuration:

- UMCX 2.1 Plug
- UMCX 2.1 Plug
- 0.81mm

### Features:

- 2.5mm mated assembly height
- Operate from DC to 6 GHz
- 100% RF and Continuity tested
- Compatible with Hirose U.FL and IPEX MHF products
- Small foot print with easy snap on/off mating

### Applications:

- Wireless LAN, Mini PCI
- Mobile Antenna/GPS/Radio Systems
- PDA/PCS/Cellular Handset applications
- Wireless Communications systems ( LAN, GSM, PCS, WCDMA, UMTS)

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## Connectors

Description	Connector 1	Connector 2
Type	UMCX 2.1 Plug	UMCX 2.1 Plug
Configuration	Straight	Straight

## Compliance Certifications (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant

Yes

Notes:

- Values at +25 °C, sea level

## How to Order

Part Number Configuration:

**FMCA1056 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

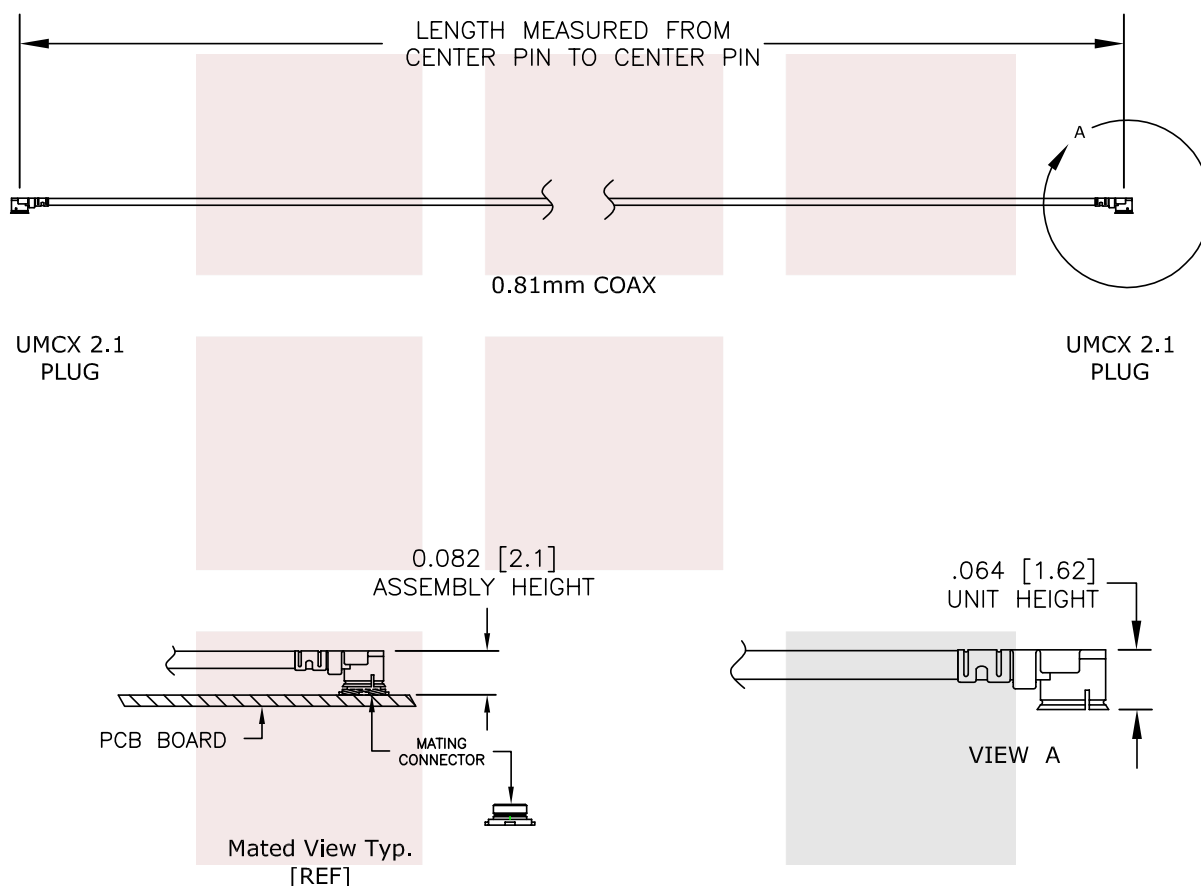
Example: FMCA1056-12 = 12 inches long cable  
 FMCA1056-100cm = 100 cm long cable

UMCX 2.1 Plug to UMCX 2.1 Plug Cable 0.81mm Coax in 9 Inch and RoHS Compliant 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: [UMCX 2.1 Plug to UMCX 2.1 Plug Cable 0.81mm Coax in 9 Inch and RoHS Compliant FMCA1056-9](http://www.fairviewmicrowave.com/umcx-2.1-plug-umcx-2.1-plug-cable-0.81mm-coax-fmca1056-9)

URL: <http://www.fairviewmicrowave.com/umcx-2.1-plug-umcx-2.1-plug-cable-0.81mm-coax-fmca1056-9-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.



UMCX connectors are similar to U.FL\*  
\*U.FL is a Registered Trademark of Hirose Electronic Group

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TITLE UMCX 2.1 Plug to UMCX 2.1 Plug Cable 0.81mm Coax in 9 Inch and RoHS Compliant		DWG NO FMCA1056		CAGE CODE 3FKR5	
CAD FILE	021615	SHEET	SCALE	N/A	SIZE A 200