

**WMCX 1.6 Plug to WMCX 1.6 Plug Cable 0.81mm
 Coax and RoHS Compliant**

Fairview Microwave's WMCX 1.6 (also known as 1.6mm UMCX) ultra-miniature cable assemblies have a mate connection height of 1.6mm. They are constructed using flexible micro-coax cable and are comparable in design to Hirose W.FL®, IPEX MHFIII® 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 WMCX 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 WMCX 1.6 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 | 1.55:1 |

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) | 0.25 | 0.48 | 0.95 | 1.6 | 2.59 |
| (dB/m) | 0.82 | 1.57 | 3.12 | 5.25 | 8.5 |

Mechanical Specifications

| | |
|-----------------------------|-------------------|
| Temperature | |
| Temperature Operating Range | -55 to +125 deg C |

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:

- WMCX 1.6 Plug
- WMCX 1.6 Plug
- 0.81mm

Features:

- 1.6mm mated assembly height
- Operate from DC to 6 GHz
- 100% RF and Continuity tested
- Compatible with Hirose W.FL and IPEX MHFIII 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 | WMCX 1.6 Plug | WMCX 1.6 Plug |
| Configuration | Straight | Straight |

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

Notes:

- Values at +25 °C, sea level

How to Order

Part Number Configuration:

FMCA1057 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

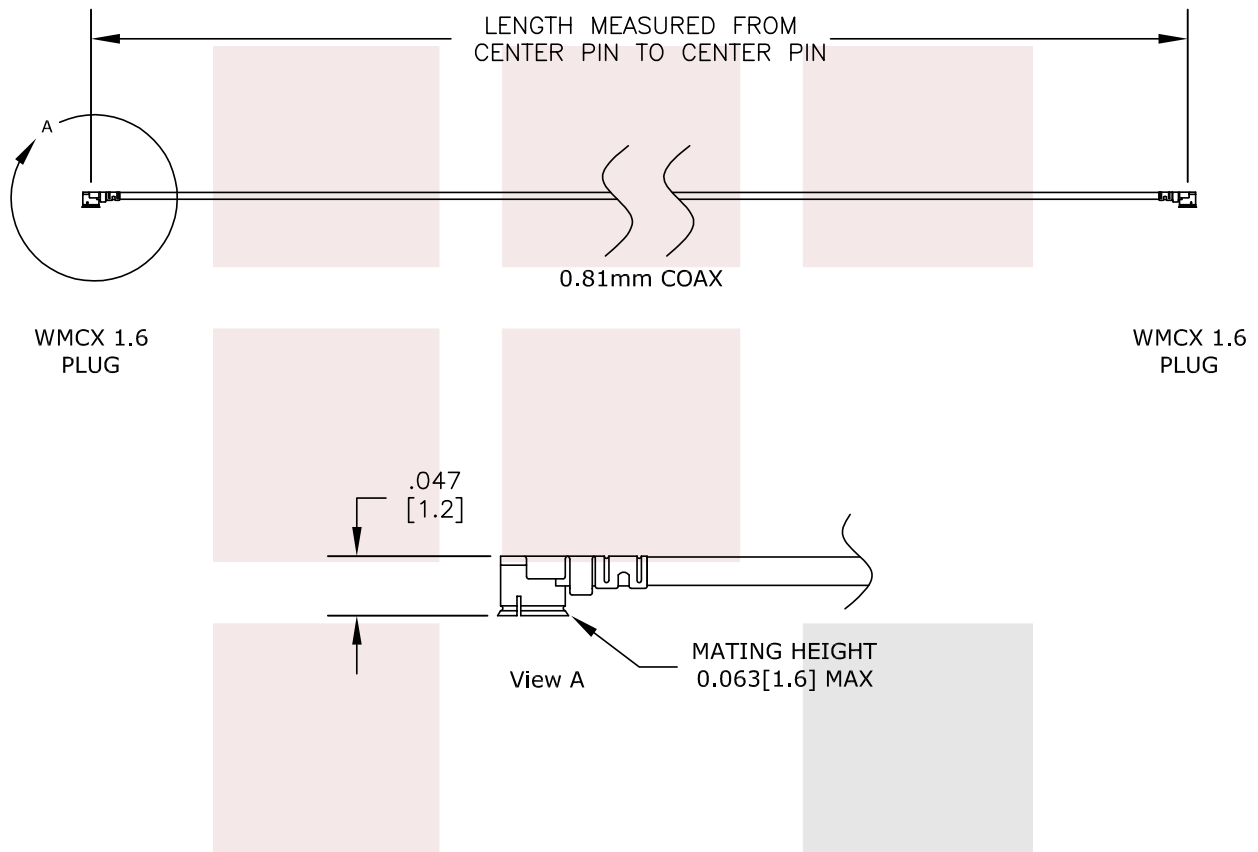
Example: FMCA1057-12 = 12 inches long cable
 FMCA1057-100cm = 100 cm long cable

WMCX 1.6 Plug to WMCX 1.6 Plug Cable 0.81mm Coax 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: [WMCX 1.6 Plug to WMCX 1.6 Plug Cable 0.81mm Coax and RoHS Compliant FMCA1057](#)

URL: <http://www.fairviewmicrowave.com/wmcx-1.6-plug-wmcx-1.6-plug-cable-0.81mm-coax-fmca1057-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

| | | | | | |
|--|--------|---|-------|--------------------|------------|
| 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 WMCX 1.6 Plug to WMCX 1.6 Plug Cable 0.81mm Coax and RoHS Compliant | | DWG NO FMCA1057 | | CAGE CODE 3FKR5 | |
| CAD FILE | 120814 | SHEET | SCALE | N/A | SIZE A 150 |