



SMA Male to UMCX 2.5 Plug Cable RG178 Coax and RoHS Compliant

Fairview Microwave's UMCX 2.5 (also known as 2.5mm UMCX) ultra-miniature cable assemblies have a mated connection height of 2.5mm. They are constructed using a flexible micro-coax cable and are comparable in design to Hirose U.FL®, IPEX MHF® as well as other UMCX connector and cable manufactures. Fairview's other UMCX 2.1, WMCX 1.6 and HMCX32 1.2 connectors are also available for use on our 0.81mm in-series micro-coax jumpers. These UMCX 2.5 are available in the following coax types; 0.81mm, 1.13mm, RG178 and RG178-DS.

Fairview's UMCX 2.5 cables can be ordered in between-series configurations with Female Bulkhead versions of SMA, Reverse Polarity SMA and Type N connectors as well as an SMA Male option. With 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 2.5 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 Impedance Max VSWR DC to 6 GHz 50 Ohms 1.5:1

Performance by Frequency

Description	F1	F2	F3	F4	F5	
Frequency	250 MHz	500 MHz	1000 MHz	2.5 GHz	6 GHz	
VSWR	1.35:1	1.35:1	1.35:1	1.35:1	1.5:1	
Return Loss (dB)	16.54	16.54	16.54	16.54	13.98	
Insertion Loss (dB/ft)	0.44	0.54	0.74	0.95	1.86	
(dB/m)	1.44	1.77	2.43	3.12	6.1	

Mechanical Specifications

Temperature

Temperature Operating Range

-55 to +125 deg C

Cable

Description	Cable		
Cable Type	RG178		
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	0.07 in [1.78 mm]		



Configuration:

- SMA Male
- UMCX 2.5 Plug
- RG178

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
- Available in 0.81mm, 1.13mm, 1.37mm, RG178 and RG178-DS shielded coax
- 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

Connector 1	Connector 2		
SMA Male	UMCX 2.5 Plug		
Straight	Straight		
Brass, Gold			
Brass, Gold			
Brass, Gold			
	SMA Male Straight Brass, Gold Brass, Gold		

SMA Male to UMCX 2.5 Plug Cable RG178 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: SMA Male to UMCX 2.5 Plug Cable RG178 Coax and RoHS Compliant FMCA1026

URL: http://www.fairviewmicrowave.com/sma-male-umcx-2.5-plug-cable-rg178-coax-fmca1026-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.

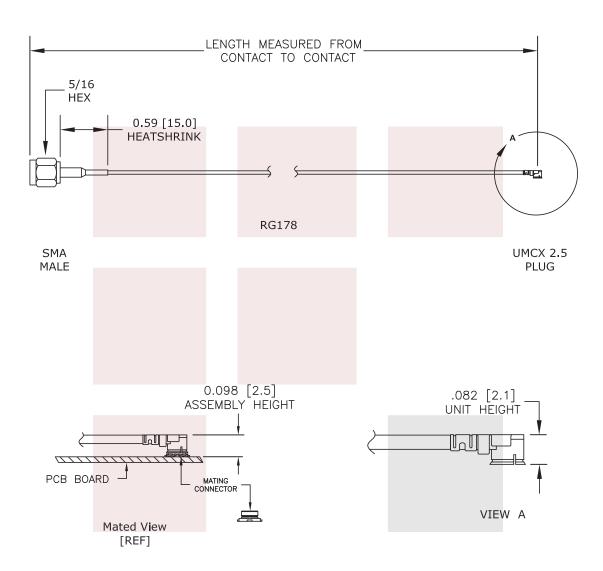
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UMCX connectors are similar to U.FL*
*U.FL is a Registered Trademark of
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FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
SMA Male to UMCX 2.5 Plug Cable RG178 Coax and	DWG NO FMCA1026			CAGE CODE 3FKR5		
RoHS Compliant	CAD FILE 012615	SHEET	SCALE	N/A	SIZE A	200