

UMCX 2.5 Plug to UMCX 2.5 Plug Cable RG178-DS Coax in 12 Inch and RoHS Compliant

Fairview Microwave's UMCX 2.5 (also known as 2.5mm UMCX) ultra-miniature cable assemblies have a mate connection height of 2.5mm. 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 2.1, WMCX 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, 1.37mm, RG178 and RG178-DS.

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 2.5 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

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.55:1	
Operating Voltage (DC)			300	Vdc

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.14	0.24	0.44	0.65	1.56	dB
VSWR (Max.)	1.4:1	1.4:1	1.4:1	1.4:1	1.55:1	
Return Loss (Max.)	15.56	15.56	15.56	15.56	13.32	dB

Mechanical Specifications

Cable Assembly

Length 12 in [304.8 mm]

Cable

Cable Type RG178-DS
Impedance 50 Ohms
Inner Conductor Type Stranded
Inner Conductor Material and Plating Copper, Silver
Dielectric Type FEP
Number of Shields 2
Shield Layer 1 Tinned Copper
Shield Layer 2 Tinned Copper
Jacket Material FEP
Jacket Diameter 0.086 in [2.18 mm]



Configuration:

- UMCX 2.5 Plug
- UMCX 2.5 Plug
- RG178-DS

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)

Fairview Microwave
1130 Junction Dr. #100
Allen, TX 75013
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Connectors

Description	Connector 1	Connector 2
Type	UMCX 2.5 Plug	UMCX 2.5 Plug
Polarity	Standard	Standard
Impedance	50 Ohms	50 Ohms

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA1055 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

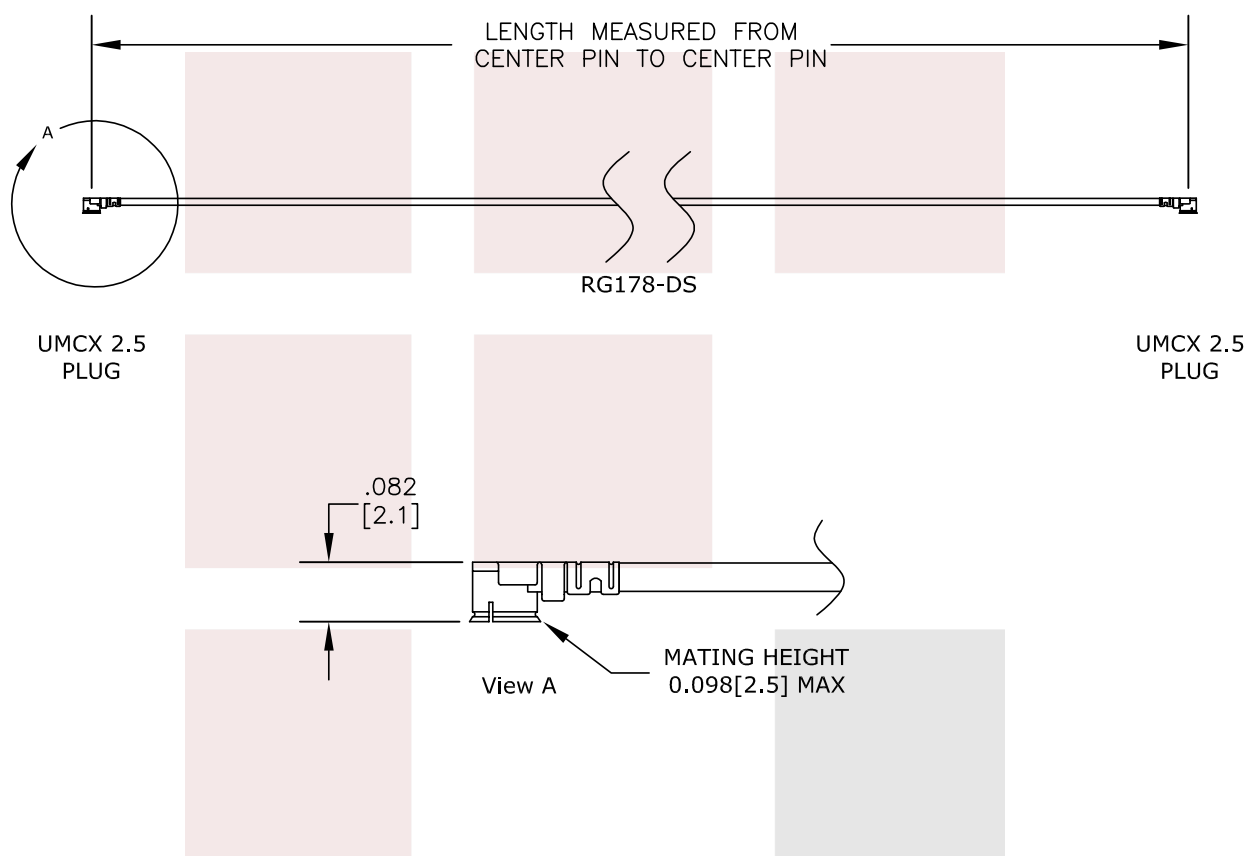
Example: FMCA1055-12 = 12 inches long cable
 FMCA1055-100cm = 100 cm long cable

UMCX 2.5 Plug to UMCX 2.5 Plug Cable RG178-DS Coax in 12 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 2.5 Plug to UMCX 2.5 Plug Cable RG178-DS Coax in 12 Inch and RoHS Compliant FMCA1055-12](#)

URL: <https://www.fairviewmicrowave.com/umcx-2.5-plug-umcx-2.5-plug-cable-rg178-ds-coax-fmca1055-12-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 UMCX 2.5 Plug to UMCX 2.5 Plug Cable RG178-DS Coax in 12 Inch and RoHS Compliant	DWG NO FMCA1055		CAGE CODE 3FKR5		
	CAD FILE 120814	SHEET	SCALE N/A	SIZE A	150