



# UMCX 2.5 Plug to UMCX 2.5 Plug Cable RG178-DS Coax

The UMCX 2.5 plug to UMCX 2.5 plug cable using RG178-DS coax, part number FMCA1055, from Fairview Microwave is in-stock and ships same day. This Fairview UMCX 2.5 to UMCX 2.5 cable assembly has a plug to plug gender configuration with 50 ohm flexible RG178-DS coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1055 UMCX 2.5 plug to UMCX 2.5 plug cable assembly operates to 6 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness. 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.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

#### **Electrical Specifications**

Description	Min	Тур	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/ft
	0.46	0.79	1.44	2.13	5.12	dB/m
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\*

0 in [0 mm]



## **Configuration:**

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

### **Features:**

- Max Frequency 6 GHz
- Double Shielded
- FEP Jacket
- 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:**

- General Purpose
- Laboratory Use
- 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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Cable

Cable Type RG178-DS Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper, Silver FEP

Dielectric Type Number of Shields

2 Shield Layer 1 **Tinned Copper** Shield Layer 2 Tinned Copper Jacket Material

Jacket Diameter 0.086 in [2.18 mm]

Cor	ne	cto	rs

Description	Connector 1	Connector 2
Туре	UMCX 2.5 Plug	UMCX 2.5 Plug
Impedance	50 Ohms	50 Ohms

**Environmental Specifications** 

**Temperature** 

Operating Range -55 to +125 deg C

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

FMCA1055-100cm = 100 cm long cable

**Plotted and Other Data** 

Notes:

#### **How to Order**



301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689





UMCX 2.5 Plug to UMCX 2.5 Plug Cable RG178-DS Coax 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: UMCX  $2.5 \, \text{Plug}$  to UMCX  $2.5 \, \text{Plug}$  Cable RG178-DS Coax FMCA1055

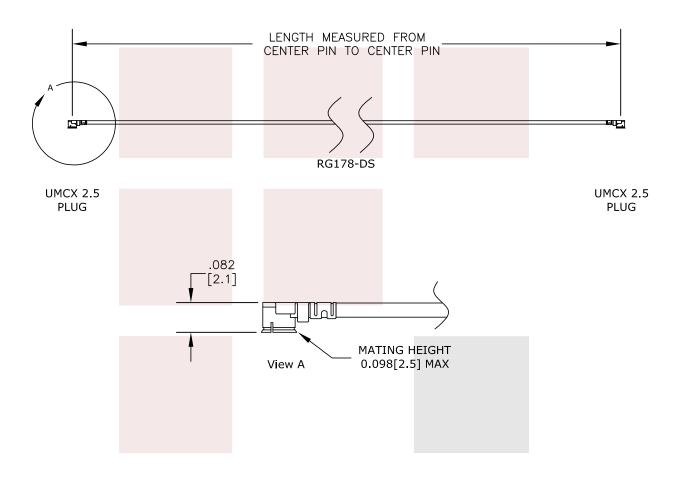
URL: https://www.fairviewmicrowave.com/umcx-2.5-plug-umcx-2.5-plug-cable-rg178-ds-coax-fmca1055-p.aspx



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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].					
UMCX 2.5 Plug to UMCX 2.5 Plug Cable RG178-DS	DWG NO FMCA1055		C	CAGE CODE 3FKR5		
Coax	CAD FILE 120814	SHEET	SCALE N	N/A	SIZE A	150