



SMA Female Bulkhead to UMCX 2.1 Plug Cable 0.81mm Coax with LF Solder

The SMA female bulkhead to UMCX 2.1 plug cable using 0.81mm coax, part number FMCA1005, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to UMCX 2.1 cable assembly has a female to plug gender configuration with 50 ohm flexible 0.81mm coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1005 SMA female to UMCX 2.1 plug cable assembly operates to 6 GHz. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. Fairview Microwave's UMCX 2.1 (also known as 2.1mm UMCX) ultra-miniature cable assemblies have a mated connection height of 2.1mm. 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.

Fairview's UMCX 2.1 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 2.1 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.

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			1.5:1	
Operating Voltage (DC)			300	Vdc

Performance by Frequency

6	GHz
	-ID /6
2.89	dB/ft
9.48	dB/m
13.98	dB
	1.5:1



Configuration:

- SMA Female Bulkhead
- UMCX 2.1 Plua
- 0.81mm

Features:

- Max Frequency 6 GHz
- FEP Jacket
- 2.1mm 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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Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable Type 0.81mm
Impedance 50 Ohms
Inner Conductor Type Stranded
Inner Conductor Material and Plating Copper, Silver
Dielectric Type FEP

Dielectric Type FE Number of Shields 1

Shield Layer 1 Tinned Copper Outer Conductor Material and Plating Tinned Copper

Jacket Material FEP

Jacket Diameter 0.032 in [0.81 mm]

Connectors

Description	Connector 1	Connector 2
Туре	SMA Female	UMCX 2.1 Plug
Mount Method	Bulkhead	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, G	old
Body Material & Plating	Brass, Gold	

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: FMCA1005 - xx uu

Example: FMCA1005-12 = 12 inches long cable

FMCA1005-100cm = 100 cm long cable





SMA Female Bulkhead to UMCX 2.1 Plug Cable 0.81mm Coax with LF Solder 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: SMA Female Bulkhead to UMCX 2.1 Plug Cable 0.81mm Coax with LF Solder FMCA1005

The information contained in this document is accurate to the best of our knowledge and representative of the part

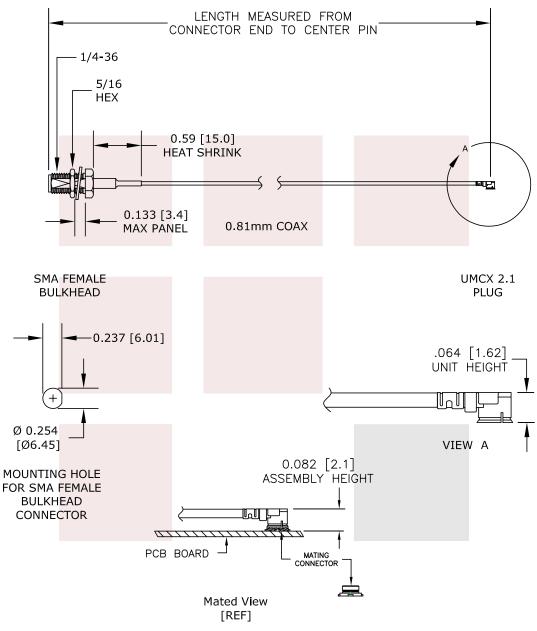
URL: https://www.fairviewmicrowave.com/sma-female-umcx-2.1-plug-cable-0.81mm-coax-fmca1005-p.aspx

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described	l herein.	It may b	e necessar	y to ma	ke modific	ations to t	he part a	nd/or tl	ne docum	entation c	f the part	, in order
to implem	nent imp	rovement	s. Fairview	Microw	ave reserv	es the righ	nt to mak	e such o	changes a	s required	l. Unless	otherwise
stated, al	l specific	ations ar	e nominal.	Fairvie	w Microwa	ve does n	ot make	any rep	resentatio	n or warr	anty rega	rding the
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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].						
SMA Female Bulkhead to UMCX 2.1 Plug Cable	FMCA1005				CAGE CODE 3FKR5		
0.81mm Coax with LF Solder	CAD FILE 031215	SHEET	SCALI	E N/A	SIZE A	150	