Fairview Microwave
an INFINITE brand

FMCA1018-12
DATA SHEET

RP SMA Female Bulkhead to UMCX 2.5 Plug Cable 1.37mm Coax in 12 Inch

The RP SMA female bulkhead to UMCX 2.5 plug 12 inch cable using 1.37mm coax, part number FMCA1018-12, from Fairview Microwave is in-stock and ships same day. This Fairview reverse polarity SMA to UMCX 2.5 cable assembly has a female to plug gender configuration with 50 ohm flexible 1.37mm coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1018-12 reverse polarity SMA female to UMCX 2.5 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 2.5 (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.

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	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
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.)	0.47	0.58	0.83	1.12	1.67	dB
VSWR (Max.)	1.35:1	1.35:1	1.35:1	1.35:1	1.5:1	
Return Loss (Max.)	16.54	16.54	16.54	16.54	13.98	dB

Configuration:

- SMA Female Reverse Polarity Bulkhead
- UMCX 2.5 Plug
- 1.37mm

Features:

- Max Frequency 6 GHz
- 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
- Available in 0.81mm, 1.13mm, 1.37mm, RG178 and RG178-DS shielded coax
- 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*	12 in [304.8 mm]
Weight	0.016 lbs [7.26 g]

Cable

Cable Type	1.37mm
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	FEP
Number of Shields	1
Shield Layer 1	Tinned Copper
Outer Conductor Material and Plating	Tinned Copper
Jacket Material	FEP
Jacket Diameter	0.053 in [1.35 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Female	UMCX 2.5 Plug
Polarity	Reverse Polarity	
Mount Method	Bulkhead	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	
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: **FMCA1018 - xx uu**

- uu: cm = Centimeters; <blank> = Inches
- xx: Length

Example: FMCA1018-12 = 12 inches long cable
FMCA1018-100cm = 100 cm long cable

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RP SMA Female Bulkhead to UMCX 2.5 Plug Cable 1.37mm Coax in 12 Inch 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: RP SMA Female Bulkhead to UMCX 2.5 Plug Cable 1.37mm Coax in 12 Inch FMCA1018-12

URL: https://www.fairviewmicrowave.com/sma-female-umcx-2.5-plug-cable-1.37mm-coax-fmca1018-12-p.aspx

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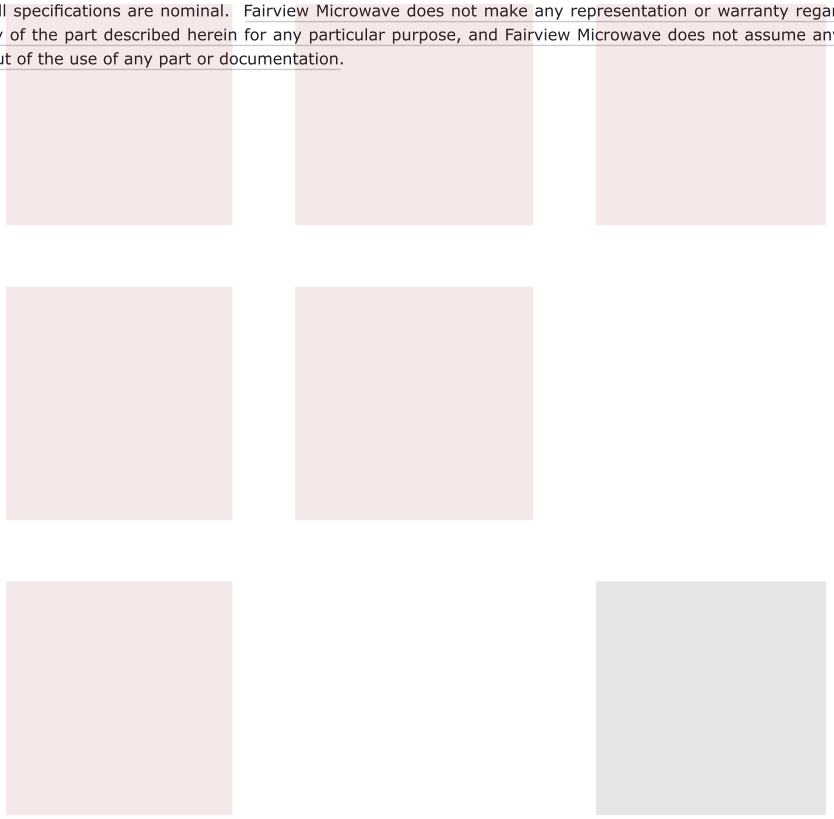

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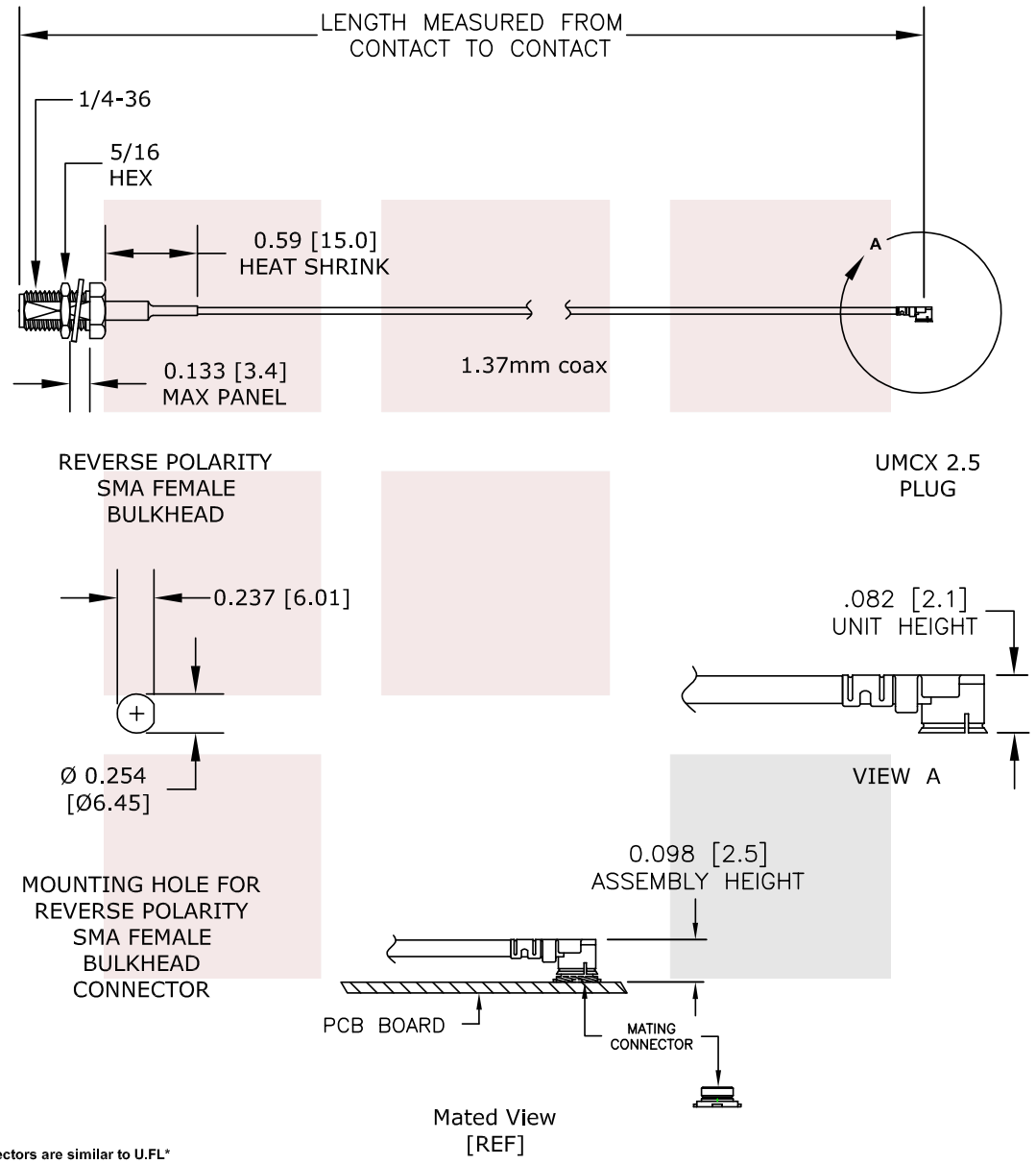

UMCX connectors are similar to U.FL*
*U.FL is a Registered Trademark of
Hirose Electronic Group

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].				
TITLE RP SMA Female Bulkhead to UMCX 2.5 Plug Cable 1.37mm Coax in 12 Inch	DWG NO FMCA1018		CAGE CODE 3FKR5		
	CAD FILE 031215	SHEET	SCALE N/A	SIZE A	150

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