

FMCA1019 DATA SHEET

RP SMA Female Bulkhead to UMCX 2.5 Plug Cable RG178 Coax

The RP SMA female bulkhead to UMCX 2.5 plug cable using RG178 coax, part number FMCA1019, 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 RG-178 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1019 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	Тур	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
Operating Voltage (DC)			3,000	Vdc

Performance by Frequency

-	-	-				
Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.44	0.54	0.74	0.95	1.86	dB/ft
	1.44	1.77	2.43	3.12	6.1	dB/m
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
- RG-178

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)

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Mechanical Specifications

Cable Assembly Length*	0 i	n [0 mm]	
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material Dielectric Type Number of Shields Shield Layer 1 Outer Conductor Material Jacket Material Jacket Diameter	and Plating Co FE 1 Tir and Plating Tir FE	nned Copper nned Copper	

Connectors

Description	Connector 1	Connector 2		
Туре	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:

FMCA1019	- xx	uu
		cm = Centimeters <blank> = Inches</blank>
		Length

Example: FMCA1019-12 = 12 inches long cable FMCA1019-100cm = 100 cm long cable

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

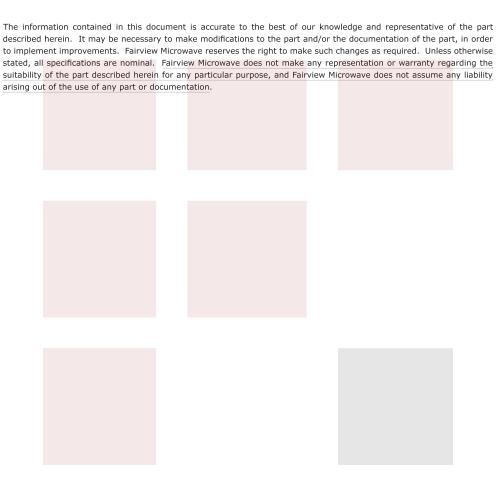




RP SMA Female Bulkhead to UMCX 2.5 Plug Cable RG178 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

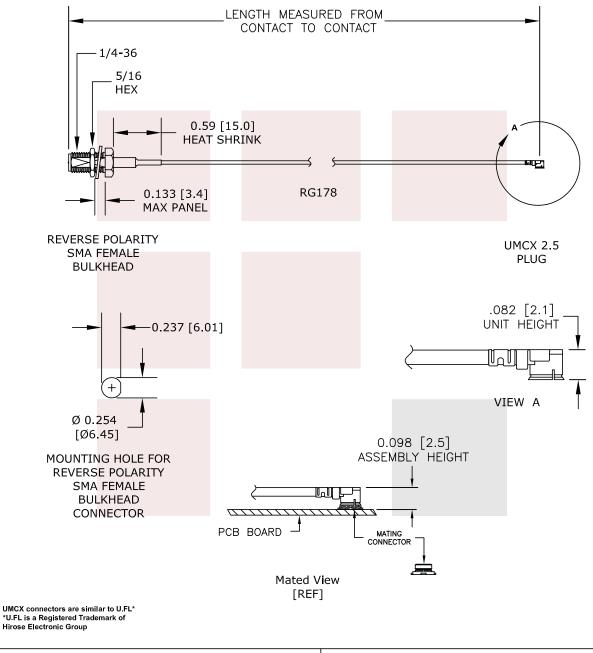
Click the following link to obtain additional part information: RP SMA Female Bulkhead to UMCX 2.5 Plug Cable RG178 Coax FMCA1019

URL: https://www.fairviewmicrowave.com/sma-female-umcx-2.5-plug-cable-rg178-coax-fmca1019-p.aspx









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].					
RP SMA Female Bulkhead to UMCX 2.5 Plug Cable	DWG NO FMCA1019			CAGE CODE 3FKR5		
RG178 Coax	CAD FILE 031215	SHEET	SCAL	E N/A	SIZE A	150

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