MHF1 to SMA Male (Plug) Cable Assembly Using O.D 1.13mm Cable

FMCA11039

Configuration

- Connector 1: MHF1
- Connector 2: SMA Male

Features

- Max Frequency 6 GHz
- 70% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use
- External antenna connection (Wi-Fi, Bluetooth, LTE/5G, and GPS receivers)
- Improving signal strength (Embedded systems inside metal enclosures)
- Prototyping and development
- IoT and embedded systems (Drones and robotics)

Description

The MHF1 to SMA male cable assembly using 1.13mm cable, part number FMCA11039, from Fairview Microwave is in-stock and ships same day. MHF1 (U.FL) is a very small RF connector found on compact electronics like Wi-Fi cards, LTE modules, and IoT boards. The FMCA11039 MHF1 to SMA male cable assembly operates to 6 GHz.

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	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
Velocity of Propagation		70		%
Test Voltage (DC)			300	V

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	1000	2500	5000	6000	MHz	
FMCA11039	Custom Lengths Available	Insertion Loss (Typ.)	0.67	1.055	1.49	1.65	dB/ft	
			2.2	3.47	4.89	5.42	dB/m	
FMCA11039-10CM	10 CM	Insertion Loss (Typ.)	0.42	0.55	0.69	0.75	dB	0.01
FMCA11039-20CM	20 CM	Insertion Loss (Typ.)	0.64	0.9	1.18	1.29	dB	0.02

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1	dB
Loss due to Connector 2:	0.1	dB
Base Weight:	0.03	pounds

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

Width/Diameter	0.052 in [1.32 mm]
Weight	0.03 lbs [13.61 g]

Cable

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 1 Material and Plating	Tinned Copper
Jacket Material	FEP
Jacket Diameter	0.052 in [1.32 mm]
One Time Minimum Bend Radius	0.157 in [3.99 mm]

Connectors

Description	Connector 1	Connector 2
Type	MHF1	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating		Brass, Gold
Body Material and Plating		Brass, Gold

Environmental Specifications

Operating Range Temperature	-40 to +125 deg C

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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:
Values at 25°C, sea level.

Typical Performance Data

How to Order

Part Number Configuration: **FMCA11039 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMCA11039 — Base Number

Example: FMCA11039-12 = 12 inches long cable
FMCA11039-100cm = 100 cm long cable

MHF1 to SMA Male (Plug) Cable Assembly Using O.D 1.13mm Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: MHF1 to SMA Male (Plug) Cable Assembly Using O.D 1.13mm Cable FMCA11039

URL: https://www.fairviewmicrowave.com/mhf1-to-sma-male-cable-1.13mm-coax-fmca11039

FMCA11039 CAD Drawing

MHF1 to SMA Male (Plug) Cable Assembly Using O.D 1.13mm Cable