



USB A jack		MF2S113-199L		
Pin	name	cable color	description	Pin
1	VBUS	Red	+5V	2
2	D-	White	Data-	5
3	D+	Green	Data+	3
4	GND	Black	Signal Ground	4
shell	-	-	-	1

All dimensions are in mm; tolerances according to ISO 2768 m-H

**Interface**

According to

MF2K201-400L  
USB Standard-A

**Flammability**

**Connector parts**

Insulator  
Assembly parts

**Category**

material acc. to UL94 V-0  
material acc. to UL94 V-1/V-2

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RF\_35/05:10/6.0

**Material and plating**

**Connector parts (MF)**

	Material	Plating / Colour
Insulator	PBT GF30	black
Housing	PBT GF30	black
Housing insert	PA	black
Piston	Brass	min 0,25 µm Au over 2,5 µm Ni
Ferrule	Brass	min 0,25 µm Au over 2,5 µm Ni
Spring	Stainless steel	
Tension relief	TPE	black
Magnet	NdFeB N52	Ni
Silicon Tube	Silicon	

**Connectors**

USB plug type A

**Electrical data**

According to USB 2.0  
Peak current 500mA

**Mechanical data**

Mating cycles min. 10.000  
Disengagement force > 10 N  
Force measured during vertical disengagement with counter connector  
Magnetic pole north to interface

**Environmental data**

Temperature range -25°C to +75°C  
RoHS compliant

**Suitable cables**

USB 2.0 Standard cable

**Available versions**

Type	Length A [mm]	pieces per box	g/piece
L99-838-500	500 +20/-20	100	tbd
L99-838-1500	1500 +80/-80	200	54
L99-838-1800	1800 +80/-80	200	tbd

**Caution**

Magnets can impact the function of pace makers and implantable cardioverter-defibrillators (e.g. actuation of reed switch). Keep a minimum distance of 0.5m (50 cm) between the magnetic connector and the implanted devices to prevent malfunction and danger to health.

**Achtung**

Magnete können die Funktion von Herzschrittmachern und implantierbaren Kardioverter-Defibrillatoren stören (z.B. durch Betätigen des Reedschalters). Halten Sie einen Mindestabstand von 0,5 m (50 cm) zwischen dem Magnetsteckverbinder und den implantierten Geräten ein, um Störungen und eine Gefahr für Leib oder Leben zu verhindern.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
G. Lapper	03.04.2012	G. Lapper	11.02.14	a00	14-s070	A. Streibl	11.02.14

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