

recommended pin design	
interface	description
pin 6	---
pin 1	+5V
pin 2	Data-
pin 3	Data+
pin 4	GND
pin 5	---

All

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

**General Information**

Magnetic connector  
 Number and type of contacts 6 rigid pins  
 Soldering THT  
 Color White, similar RAL 9010

**Interface**

Mating with MultiMag 6 cable assembly

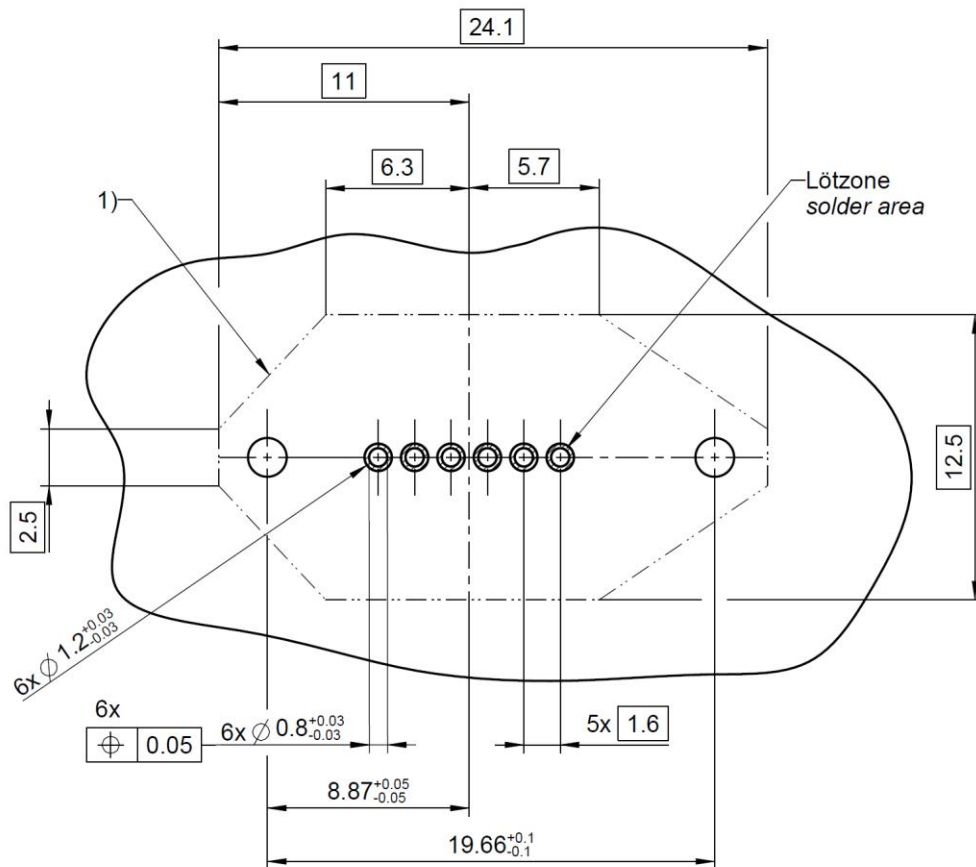
**Material and Plating**

<b>Connector Parts</b>	<b>Material</b>	<b>Plating/Color</b>
Contacts	Brass	Gold plated
Housing	PBT GF30	White, similar RAL 9010
Magnets	NdFeB	Nickel plated

**Electrical Data**

Designed for USB 2.0 specification      5 V DC, 0.5 A  
 Maximum voltage                              24 V DC  
 Maximum current                                1 A

**PCB Footprint**



- 1) Keine Bauteile innerhalb dieser Zone erlaubt / no components allowed within this zone
- 2) Die dargestellten Maße sind nur eine Empfehlung / the stated dimensions are only recommendations.
- 3) Alle Bohrungen sowie die Pads auf der Rückseite beschichtet / all drill holes plated inclusive pads on the backside

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RF\_35/05.10/6.0

**Mechanical Data**

Magnetic disengagement force average ~ 8 N  
 Mating cycles without load min. 5.000  
 Expected Mating cycles with load:

Max. Voltage	Max. Current	Mating cycles
5.0 V DC	0.5 A	min. 5.000
12.6 V DC	1.0 A	min. 2.000
24.0 V DC	0.5 A	min. 800

**Environmental Data**

Temperature range -20 °C to +65 °C  
 Magnets start losing their magnetic properties above 65 °C

**Compliance**

RoHS compliant

**Packing**

Standard 100 pcs in blister  
 Weight ~ 1.1 g/pc

**Caution!**

**Magnets can impact the function of pace makers and implantable cardioverter-defibrillators (e.g. actuation of reed switch). Keep a minimum distance of 0.2 m (20 cm) between the magnetic connector and the implanted devices to prevent malfunction and danger to health.**

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
T. Scheuerlein	22.07.16	T. Scheuerlein	23.01.20	b00	20-0163	S. Kirchhofer	23.01.20

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