



pin table	
USB A male	magnetic interface
pin1	pin1
pin2	pin2
pin3	pin3
pin4	pin4
shell	shell

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

**Interface**

According to L99-987-XXX  
L99-988-XXX  
L99-989-XXX

**Flammability**

Injection molded thermoplastic insulator materials UL94 V-0 / acc. to spec. USB 2.0

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RF\_35/05.10/6.0

**Material, plating and colour**

Connector parts	Material	Plating / Color
Base cover	PBT GF20	RAL 9005
Front housing	PBT 420SEO	RAL 9005
Contact holder	PBT 420SEO	RAL 9005
Ground terminal contacts	C5210R-H	gold
Signal contacts	C5210R-H	gold
Shell (sheet metal)	SPCC	tin
Shell 2 (sheet metal)	SPCC	tin
Magnet	NdF3B – N52	nickel
Cable	PVC- Jacket	black

**Connectors**

USB plug type A

**Electrical data**

High-speed signaling bit rate: 480 Mb/s  
 Full-speed signaling bit rate: 12 Mb/s  
 Low-speed signaling bit rate: 1.5 Mb/s  
 VBus nominally +5 V

Further electrical requirements acc. to spec. USB 2.0

**Mechanical data**

Mating cycles 1500 insertions/extractions @ max. rate of 200 cycles/hour  
 Disengagement force > 10 N - disengagement in axial direction  
 > 5 N - disengagement in an 45° angle direction

**Environmental data**

Temperature range 0°C to +50°C – operating temperature  
 -20°C to 60°C – storage temperature  
 RoHS compliant

**Packing**

Standard 25 pcs in blister  
 Optional 1 pcs in box

**Safety instruction**

**Caution**

„The magnetic field of the assembled magnets is very strong. These magnets can particularly impact the function of cardiac pacemakers, implanted cardioverter-defibrillators (e.g. by unintentional actuation of reed switch), hearing aids, data storage media, monitors, and debit- and credit cards. Therefore keep sufficient safety distance from such or similar devices to prevent malfunction and danger to health. In case of any further questions please contact our customer service center.“

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
C.Kainzmaier	12.09.16	C.Kainzmaier	13.02.17	c00	17-0004	M.Portenkirchner	13.02.17

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