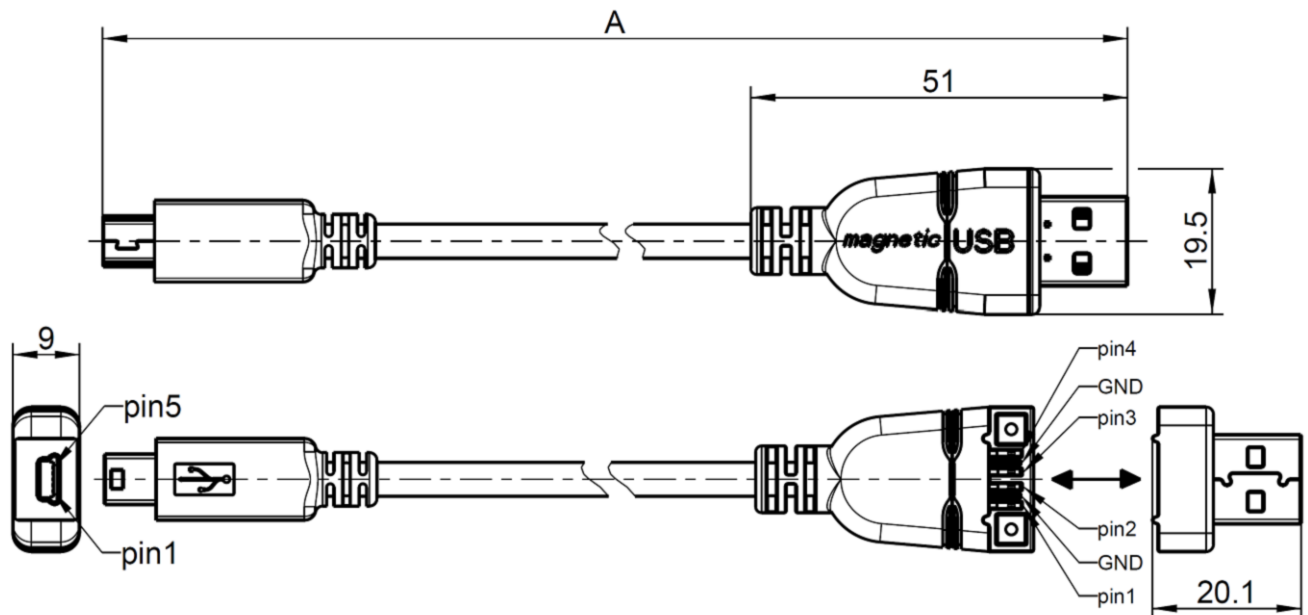




| pin and cable table |       |                    |
|---------------------|-------|--------------------|
| USB mini B          | cable | magnetic interface |
| pin1                | red   | pin1               |
| pin2                | white | pin2               |
| pin3                | green | pin3               |
| pin4                | ---   | ---                |
| pin5                | black | pin4               |
| shell               | GND   | shell              |

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

## Interface

According to

USB 2.0-A / MU1S101-000Z  
USB 2.0 Mini B

## Available versions

| Type        | Length A [mm] | Weight [g/pcs] |
|-------------|---------------|----------------|
| L99-987-XXX | 800 +20/-20   | 24,6           |

## Flammability

Injection molded thermoplastic insulator materials

UL94 V-0 / acc. to spec. USB 2.0

### Material, plating and colour

#### Connector parts

Base cover  
Front housing  
Contact holder  
Ground terminal contacts  
Signal contacts  
Shell (sheet metal)  
Shell 2 (sheet metal)  
Magnet  
Cable

#### Material

PBT GF20  
PBT 420SEO  
PBT 420SEO  
C5210R-H  
C5210R-H  
SPCC  
SPCC  
NdF3B – N52  
PVC- Jacket

#### Plating / Color

RAL 9005  
RAL 9005  
RAL 9005  
gold  
gold  
tin  
tin  
nickel  
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

### Suitable cables

USB 2.0 Standard cable

### Packing

Standard 1 pcs in plastic bag  
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 | 09.05.16 | C.Kainzmaier | 13.02.17 | b00  | 17-0004                   | M.Portenkirchner | 13.02.17 |