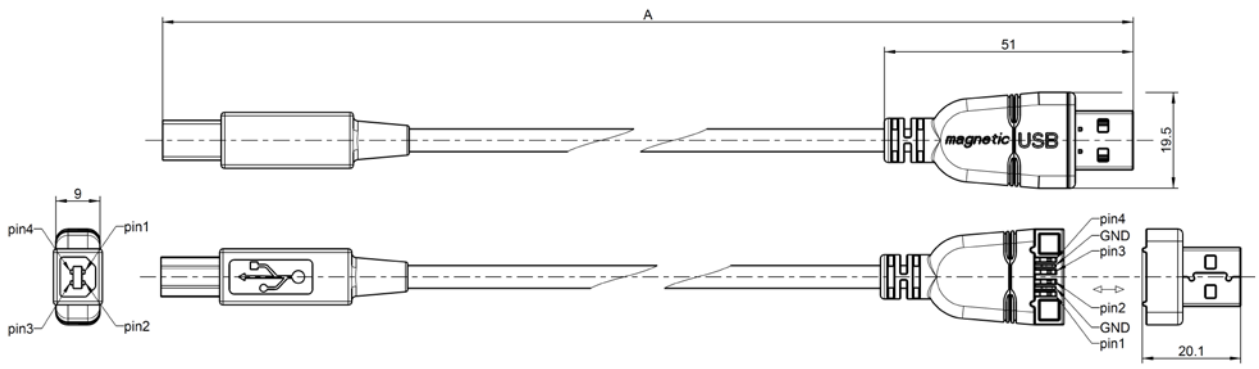
| Technical Data Sheet | Rosenberger |
|---|---|
| USB 2.0 A MALE TO USB 2.0 TYPE-B | **L99-989-XXX** |




| pin and cable table | | |
|---|---|---|
| USB type B | cable | magnetic interface |
| pin1 | red | pin1 |
| pin2 | white | pin2 |
| pin3 | green | pin3 |
| pin4 | 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<br>USB 2.0 Type-B |

## Available versions

| Type | Length A [mm] | Weight [g/pcs] |
|---|---|---|
| L99-989-XXX | 1800 +30/-30 | 46,7 |

## Flammability

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

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## 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<br>> 5 N - disengagement in an 45° angle direction |

## Environmental data

| | |
|---|---|
| Temperature range | 0°C to +50°C – operating temperature<br>-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 |
|---|---|---|---|
| C.Kainzmaier | 09.05.16 | C.Kainzmaier | 13.02.17 |

| Rev. | Engineering change number | Name | Date |
|---|---|---|---|
| b00 | 17-0004 | M.Portenkirchner | 13.02.17 |



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