



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
Soldering
Color

6 rigid pins
Solder cup for pre-tinned wire with cross section AWG 26
White, similar RAL 9010

Interface

Mating with

MultiMag 6 cable assembly

Material and Plating

Connector Parts

Contacts
Housing
Magnets

Material

Brass
PBT GF30
NdFeB

Plating/Color

Gold plated
White, similar RAL 9010
Nickel plated

MultiMag 6

Receptacle
(Solder Cup Termination)

M9K702-299L

Electrical Data

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

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

Suitable Cables

Pre-tinned wire with cross section AWG 26

Compliance

RoHS compliant

Packing

Standard 100 pcs in blister
 Weight ~ 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
C. Kainzmaier	27.04.15	T. Scheuerlein	23.01.20	c00	20-0163	S. Kirchhofer	23.01.20