



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
Reinforced version with gasket
Number and type of contacts
Soldering
Color

6 rigid pins
Solder cup for pre-tinned wire
Black, similar RAL 9005

Interface

Mating with

MultiMag 6 cable assembly

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MultiMag 6

Receptacle, Reinforced
(Solder Cup Termination)

M9K703-299L

Material and Plating

Connector Parts

Contacts
Housing
Magnets
Gasket

Material

Brass
PBT GF30
NdFeB
FVMQ

Plating/Color

Gold plated
Black, similar RAL 9005
Nickel plated
Black

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
Degree of protection Magnets start losing their magnetic properties above 65 °C
DIN EN 60529, IPX6/IPX7 *

*not considering the flange holes. Depending on the application, it may be necessary to seal the flange holes separately.

Suitable cables

Solder cup for pre-tinned wire with cross section AWG 26

Compliance

RoHS compliant

Packing

Standard 50 pcs in blister
Weight ~ 2.0 g/pc

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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	22.12.15	T. Scheuerlein	09.01.18	a00	18-s023	S. Kirchhofer	09.01.18

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