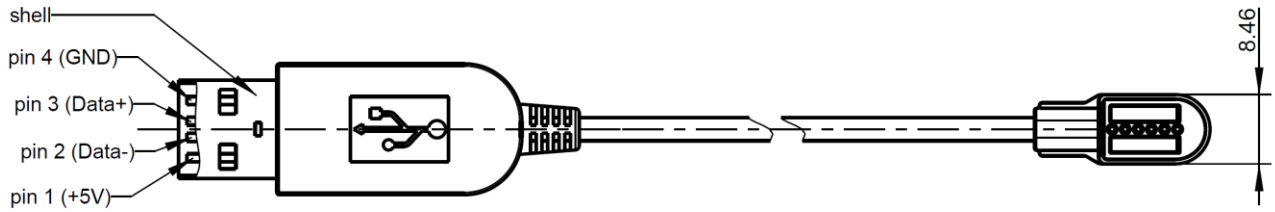

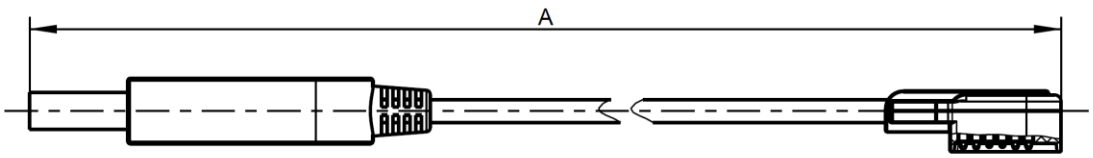

Kabellänge / *cable length*			
Bereich Länge "A" (mm) *range length "A" (mm)*	50 bis 100 *50 to 100*	101 bis 1000 *101 to 1000*	1001 bis 5000 *1001 to 5000*
Toleranz für "A" (mm) *tolerance for "A" (mm)*	±5	±10	±20

All dimensions are in mm; tolerances according to ISO 2768 C

General Information

MultiMag 6 cable assembly consisting of

Break-off plug with magnets
Number and type of contacts — 6 spring-loaded contacts

USB 2.0 cable
USB-A connector

Available Versions

Type	Description
L99-029-XXX	Black, similar RAL 9005
L99-A0039-XXX	White, similar RAL 9010

“XXX” is coding for length “A” in mm

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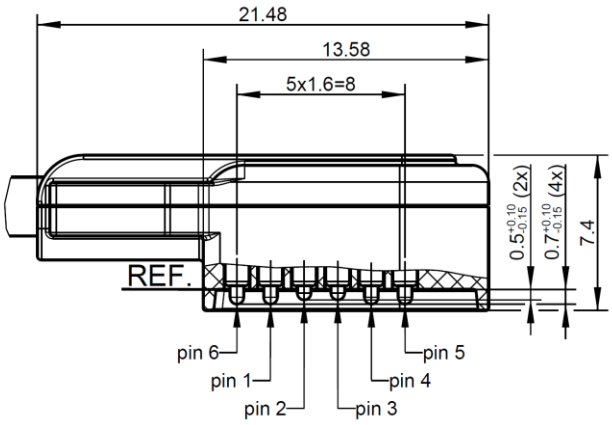
Technical Data break-off plug

Belegungsplan / *pin and cable table*		
USB 2.0 A	Kabel / *cable*	Magnet-schnittstelle *magnetic interface*
pin 1	Rot / *red*	pin 1
pin 2	Weiss / *white*	pin 2
pin 3	Grün / *green*	pin 3
pin 4	Schwarz / *black*	pin 4
pin 5	--- / *shell*	pin 5
pin 6	--- / *shell*	pin 6



All dimensions are in mm; tolerances according to ISO 2768 C

Interface

Mating with	MultiMag 6 Receptacle

Material and Plating break-off plug

Connector parts	**Material**	**Plating / Color**
Housing bottom and top	PC+ABS	Black, similar RAL 9005
Magnets	NdFeB	Nickel plated

Spring loaded contacts	**Material**	**Plating / Color**
Piston	Brass	Gold plated
Ferrule	Brass	Gold plated
Spring	Stainless steel wire	

Connectors

USB-A	According to USB 2.0 specification

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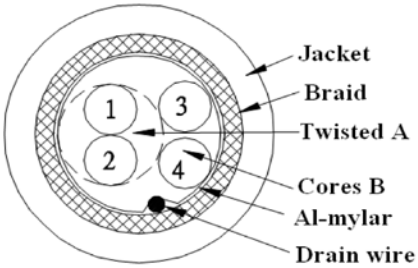
Cable

USB 2.0 cable	According to USB 2.0 specification



Twisted pair (1, 2)	2x
Stranded tinned copper wire	28 AWG, Ø 0.40 mm
with PE insulation	Ø 0.80 mm, green and white
Wire (3, 4)	2x
Stranded tinned copper wire	28 AWG, Ø 0.40 mm
with PVC insulation	Ø 0.80 mm, black and red
Drain wire	1x
Tinned copper	Ø 0.127 mm
Foil coverage	Al mylar
Braid shield	Tinned copper
Jacket	
TPE	Ø 3.40 mm

Electrical Data

Electrical data acc. to USB 2.0 specification	
Maximum voltage	5 V
Maximum current	0.5 A
Contact resistance	typically ≤ 50 mΩ

Mechanical Data

Mating cycles	min. 5.000
Disengagement force	average ~ 8 N

Environmental Data

Temperature range	-20 °C to +60 °C Magnets start losing their magnetic properties above 65 °C
RoHS	compliant

Packing

Standard	1 pc in plastic bag
Weight	Depending on cable length

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
M. Portenkirchner	23.01.15	T. Scheuerlein	23.11.16

Rev.	Engineering change number	Name	Date
a00	16-s361	S.Hofmeister	23.11.16

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