

cable length [mm]			
Range length "A"	50 to 100	101 to 1000	1001 to 5000
Tolerance for "A"	±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

Color

White, similar RAL 9010 or RAL 9003

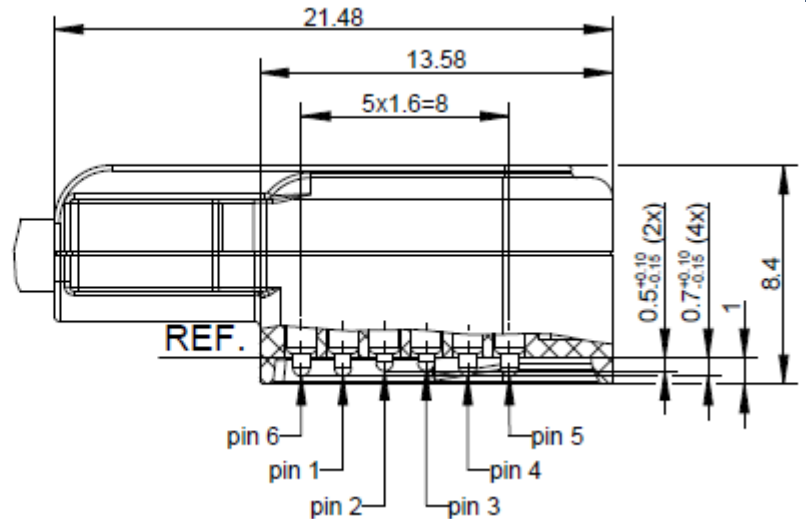
Available Versions

Type	Description
L99-029-XXX	Black, similar RAL 9005
L99-A0039-XXX	White, similar RAL 9010 or RAL 9003

"XXX" = coding for length "A" in mm

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

Housing bottom and top
Magnets

Material

PC+ABS
NdFeB

Plating / Color

White, similar RAL 9010
Nickel plated

Spring loaded contacts

Piston
Ferrule
Spring

Material

Brass
Brass
Stainless steel wire

Plating / Color

Gold plated
Gold plated

Connectors

USB-A

According to USB 2.0 specification

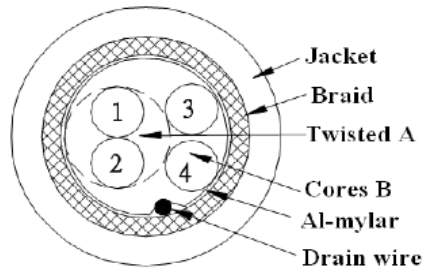
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Cable

USB 2.0 cable

According to USB 2.0 specification



Twisted pair (1, 2)

Stranded tinned copper wire with PE insulation

2x
28 AWG, Ø 0.40 mm
Ø 0.80 mm, green and white

Wire (3, 4)

Stranded tinned copper wire with PVC insulation

2x
28 AWG, Ø 0.40 mm
Ø 0.80 mm, black and red

Drain wire

Tinned copper

1x
Ø 0.127 mm

Foil coverage

Al mylar

Braid shield

Tinned copper

Jacket

TPE

Ø 3.40 mm

Electrical Data

Designed for USB 2.0 specification

5 V DC, 0.5 A

Maximum voltage

24 V DC

Maximum current

1 A

Test voltage

500 V DC

Insulation resistance

≥ 100 MΩ

Contact resistance

typically ≤ 50 mΩ

