



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

General Information

Magnetic RJ45 PoE+ featured adapter cable with magnetic break- off interface

- Magnetic interface can mate with
- Magnetic RJ45 extension cable (L99-M0018-XXX-Y)
 - Standard RJ45 (8P8C) male connector

Available Length

Description	Length "A" in [mm] ¹
L99-M0043-XXX-Y	XXX ± 1%

¹ length < 300 ± 3 mm

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RF_35/09.14/6.2

Magnetic RJ45

Adapter cable

L99-M0043-XXX-Y

Available Colour

Description	Colour "Y" in
L99-M0043-XXX-Y	A- white, similar RAL 9010
	B- black, similar RAL 9005
	C- grey, similar RAL 7031

Material and Plating

RJ45 adapter cable

Magnetic connector housing
Magnets
Fixing pin
RJ45 Female
Cable
RJ45 Male
Bending protection

Material

PC+ABS
NdFeB
Brass
RJ45 8P8C
LSNH
RJ45 8P8C
TPE

Plating/ Colour

See colour table
Nickel plated
Non-plated
Contacts gold plated
See colour table
Contacts gold plated
See colour table

Connectors

8P8C Male
8P8C Female
Cable

ISO/ IEC 11801, IEC 60603-7-51, IEC 60512-99-001
ISO/ IEC 11801, IEC 60603-7-51, IEC 60512-99-001
Cat 6A S/FTP, 4 x 2 x AWG26, outer diameter 6.8 mm

Electrical Data

Ethernet characteristics

1 Gbit/s (IEEE 802.3 ab)
Power over Ethernet (15,4 Watt) (IEEE 802.3 af)
Power over Ethernet Plus (25,4 Watt) (IEEE 802.3 at)
Category 5e with class D up to 100 MHz

Voltage resistance

1.000 V DC between data lines
1.500 V DC between data lines and shield

Insulation resistance

≥ 500 MΩ at 100 V DC

Contact resistance

Typically ≤ 20 mΩ (accord. to IEC 60512 2a)

Pin assignment

According to EIA/TIA-568B
1:1 assignment from plug to plug at each cable end

Magnetic RJ45

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L99-M0043-XXX-Y

Mechanical Data

Disengagement force of magnetic connection in straight direction ≥ 20 N

Mating cycles magnetic connection with resistive load 750

Environmental Data

Temperature range -25°C to 50°C
Please note:
Magnets can start losing their magnetic properties above 60 °C

Compliance

RoHS Compliant



Compliant

Packing

Standard 1 pce in pressure lock bag
1 bag in carton box

Weight Depending on cable length

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
H. Wurm	17.08.18	H. Wurm	08.10.19	a00	19-s248	S. Kirchhofer	15.10.19