



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

**General Information**

Magnetic RJ45 PoE+ featured cable assembly with magnetic break-off interface consisting of  
 -Magnetic RJ45 adapter cable (L99-M0043-XXX-Y)  
 -Magnetic RJ45 extension cable (L99-M0018-XXX-Y)

**Available Length**

Description	Length "A" in [mm] <sup>1</sup>
L99-M0044-XXX-Y	XXX ± 1%

<sup>1</sup>length < 300 ± 3 mm

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**Available Colour**

Description	Colour "Y" in
L99-M0044-XXX-Y	A- white, similar RAL 9010
	B- black, similar RAL 9005
	C- grey, similar RAL 7031

**Material and Plating**

**RJ45 adapter cable**

	Material/Type	Plating/ Colour
Magnetic connector housing	PC+ABS	See colour table
Magnets	NdFeB	Nickel plated
Fixing pin	Brass	Non-plated
RJ45 Female	RJ45 8P8C	Contacts gold plated
Cable	LSNH	See colour table
RJ45 Male	RJ45 8P8C	Contacts gold plated
Bending protection	TPE	See colour table

**RJ45 extension cable**

	Material/Type	Plating/ Colour
Magnetic connector housing	PC+ABS	See colour table
Magnets	NdFeB	Nickel plated
Fixing pin	Brass	Non-plated
RJ45 Male	RJ45 8P8C	Contacts gold plated
Cable	LSNH	See colour table
RJ45 Male	RJ45 8P8C	Contacts gold plated
Bending protection	TPE	See colour table

**Connectors and Cable**

8P8C Male shielded	ISO/ IEC 11801, IEC 60603-7-51, IEC 60512-99-001
8P8C Female shielded	ISO/ IEC 11801, IEC 60603-7-51, IEC 60512-99-001
Cable	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

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Magnetic RJ45

Cable Set

**L99-M0044-XXX-Y**

**Mechanical Data**

Disengagement force of magnetic connection in straight direction  $\geq 20$  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  
xx bags in carton box (xx = 1 to max. 25 pcs)

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