



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

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF\_35/09.14/6.2

**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**

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

**Material/Type**

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

**RJ45 extension cable**

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

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

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

**Connectors and Cable**

8P8C Male shielded  
8P8C Female shielded  
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

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