# Telegärtner

- Data center
- Industrial Internet of Things
- Video surveillance
- Wi-Fi access points

# SIMPLER ALL OVER.
# SIMPLER ALL ROUND.

Field assembly RJ45 connector series for home networks, industry and data center

# LESS TIME AND EFFORT.
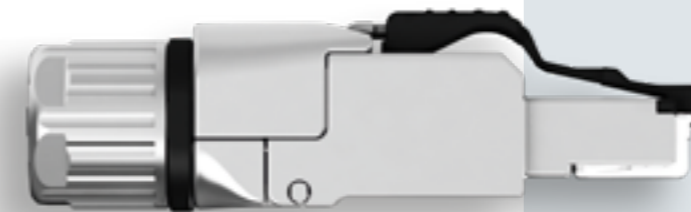# MORE FLEXIBILITY.

**MFP8-SL Cat.6$_A$ – The short one**
RJ45 connector with an extremely short length.

Ideal for applications where space is critical,
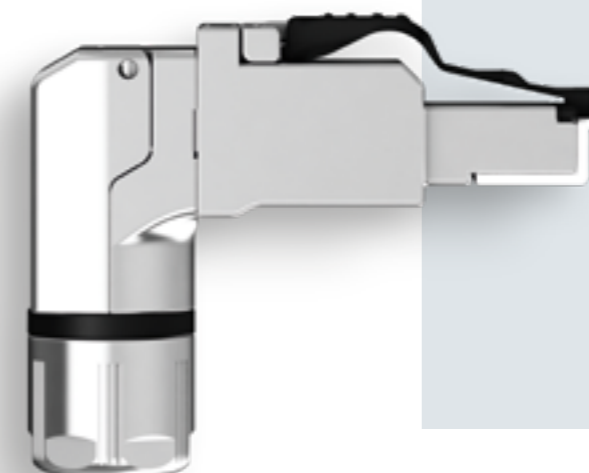e.g. for installation in devices.

An existing network needs to be extended. A cable needs to be repaired or replaced.
An end device needs to be connected quickly. There is not enough space for an outlet or
it is not an option for security or aesthetic reasons.

With the RJ45 plugs of the MFP8 series, installers and network professionals can quickly and
flexibly respond even to short-term requirements. Excess cable length and the space problems it
causes are a thing of the past. Connections can be set up with centimetre precision both quickly
and cost-effectively – without the need for special tools.

The MFP8 connector series is the ideal solution for all applications with transmission rates up
to 40 Gigabit Ethernet. In just 60 seconds, they can be connected to all common cable types
without special tools. Whether in the office or in the data center, in industry, in security
technology or in home networks: the MFP8 offers maximum flexibility for minimal effort.

**MFP8 Cat.6$_A$ – The classic**
RJ45 connector with full metal housing and
four-step cable relief.

Ideal for office, data center and residential
cabling.

**MFP8 IE Cat.6$_A$ – The industrial one**
RJ45 connector with full metal cable strain
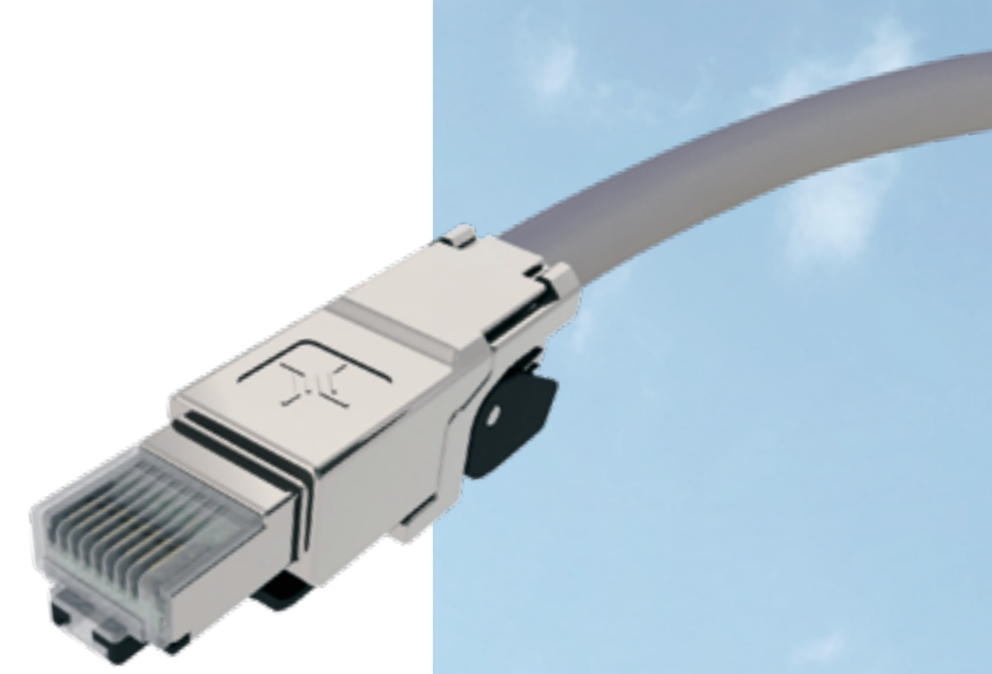relief for cable diameters up to 10 mm.

Ideal for assembling industrial installation and
patch cords.

Data center

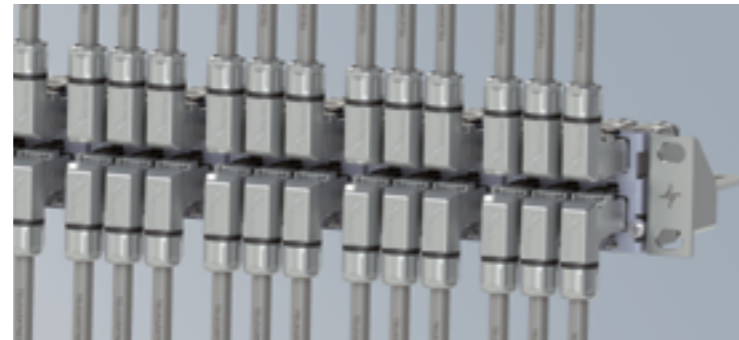Industrial Internet of Things

Video surveillance

**MFP8-4x90 Cat.6$_A$ – The flexible one**
RJ45 connector with angled housing and
variable cable entry at right angles from
four directions.

Ideal for special installation situations
such as 19" patch panel.

Wi-Fi access points

# SIMPLER ALL OVER: MFP8 APPLICATIONS

**01**

### Cabling when space is limited

Whether it's an office building, building services or apartment, there is often simply not enough space for organized cable management. The MFP8 4x90 solves this problem, because the cable outlet can be flexibly selected on site in 90° steps to the top, bottom, right or left, so that the connected cable can be optimally directed. In the distributor, at the consolidation point or at the device connection: The MFP8 4x90 makes it possible to comply with the specified bending radius in every application.

**02**

### Industrial cabling (IP20)

Industrial networks require heavy-duty, reliable cabling components. The MFP8 RJ45 connector's slim design allows high packing density on the Din rail and in compact switches. The exceptionally sturdy screwed cable outlet is even compatible with thick and rigid cables. The proven IDC connection make it possible to connect wires with solid and flexible conductors securely.

**03**

### IP video surveillance, security and Wi-Fi access points

Outlets and patch cords are not desirable in many applications for security or aesthetic reasons, although a wireless connection is not practical either. The MFP8 and MFP8-SL can connect IP cameras, security devices, Wi-Fi access points and distributed antenna systems to the installation cable elegantly and protect them against manipulation.

# THE SOPHISTICATION IS IN THE DETAILS.

Reliable data transmission even with outside electrical interference due to **360° shielding**

Quick and easy installation with a **four-chamber wire manager**, available with T568A, T568B or PROFINET colour codes

High transmission reserves due to **full metal shielding** between the pairs of wires.

The contacts are protected from dirt and damage in transit, even during cable assembly, by the **pre-assembled protection cap**

Compatible with a wide range of conductor diameter thanks to proven **IPC contacts.**

Universal due to the **standardised connector interface** compliant with IEC 60603-7-51

The **heavy-duty die-cast zinc housing** with hardened and tempered finish protects against outside electrical interference

Key components of all MFP8 variants such as the wire manager are identical to make life as easy as possible for the user. All the connectors have the same key characteristics such as 360° shielding, robust zinc-die-cast housing and long release latch, all of which are hallmarks of the MFP8 series and are identical in all variants.

The sophistication is in the details – it's the little things that make a big difference and make the MFP8 so universal.

## Technical data for the whole family:

- category $6_A$ as specified by ISO/IEC 11801
- connector as specified by IEC 60603-7-51
- life ≥ 750 mating cycles
- contact finish material: Ni1.2Au0.8
- shielded housing material: Nickel-plated zinc die-cast

- Cu conductor diameter:
  solid 0.51 – 0.64 mm (AWG24/1 – 22/1)
  stranded 0.46 – 0.76 mm (AWG27/7 – 22/7)
  stranded 0.61 – 0.78 mm (AWG24/19 – 22/19)*
  core diameter: 1.0 – 1.6 mm

- Cu conductor diameter:
  solid 0.41 – 0.51 mm (AWG26/1 – 24/1)
  stranded 0.46 – 0.61 mm (AWG27/7 – 24/7)
  stranded 0.51 (AWG26/19)*
  core diameter: 0.85 – 1.1 mm

- reusable IPC: ≤ 4 cycles
- temperature range: -40°C to 85°C
- 4 Pair Power over Ethernet (4PPoE) according to IEEE 802.3at
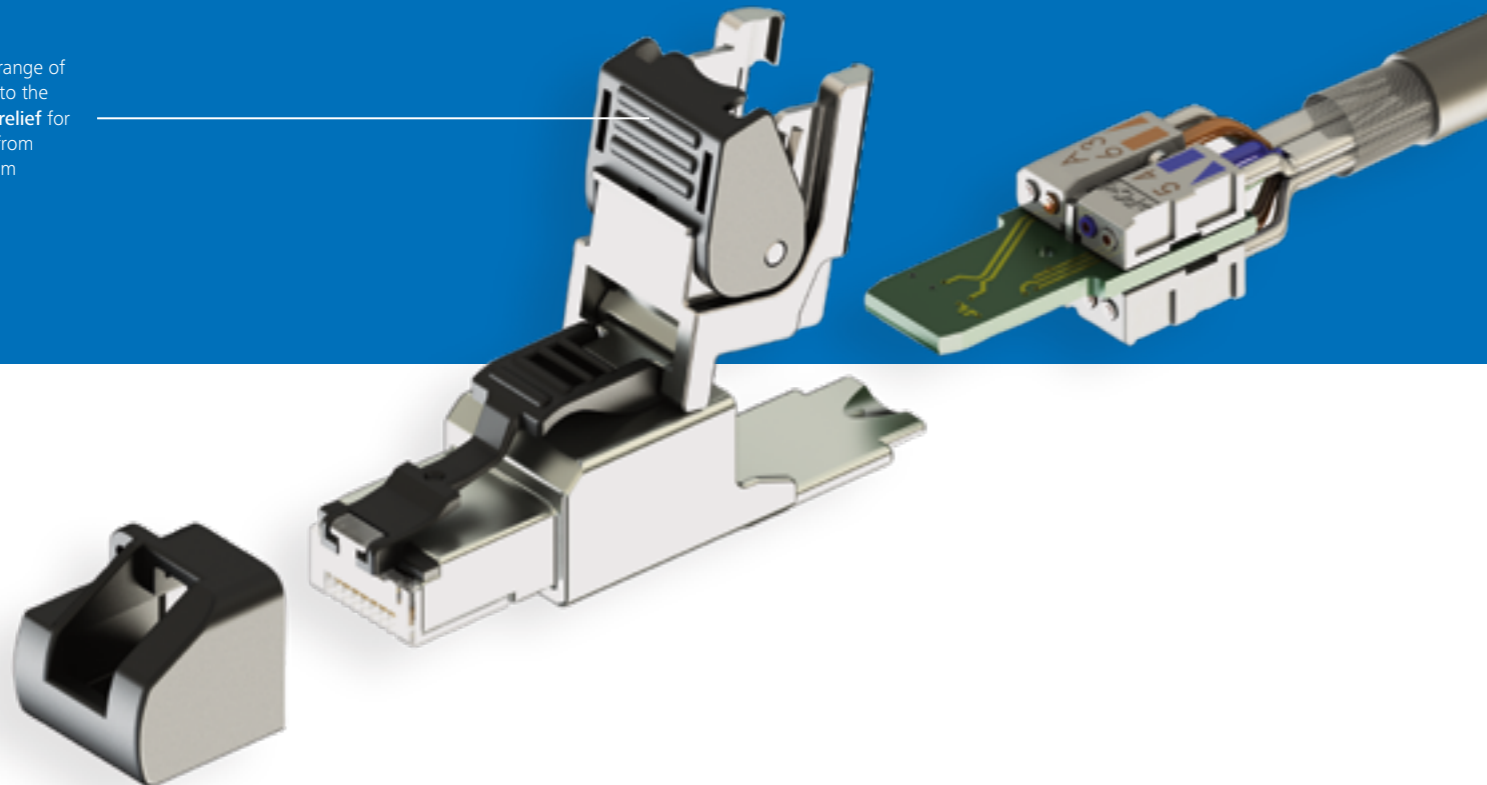- IP20; UL listed

*The cable needs to be approved by Telegärtner Karl Gärtner GmbH

All MFP8 wire managers are compatible with all MFP8 housings.

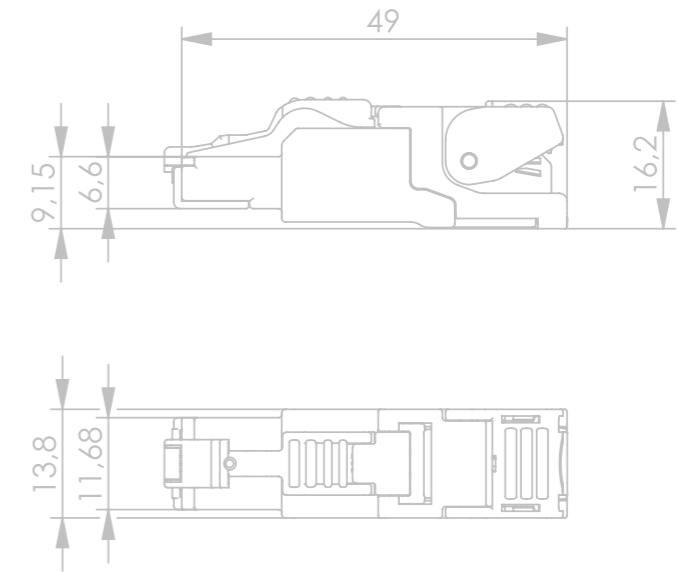| MFP8 wire managers | Article no. | Name | Description |
|---|---|---|---|
| | 100020632 | CU-Acc wiremgr MFP8 C6A D1-1.6 T568A | MFP8 wire managers T568A for AWG24/1-AWG22/1, AWG27/7-AWG22/7 |
| | 100020633 | CU-Acc wiremgr MFP8 C6A D1-1.6 T568B | MFP8 wire managers T568B for AWG24/1-AWG22/1, AWG27/7-AWG22/7 |
| | 100020634 | CU-Acc wiremgr MFP8 D1-1.6 PNO | MFP8 wire managers PROFINET for AWG24/1-AWG22/1, AWG27/7-AWG22/7 |
| | 100020636 | CU-Acc wiremgr MFP8 C6A D.85-1.1 T568A | MFP8 wire managers T568A for AWG26/1-AWG24/1, AWG27/7-AWG24/7 |
| | 100020635 | CU-Acc wiremgr MFP8 C6A D.85-1.1 T568B | MFP8 wire managers T568B for AWG26/1-AWG24/1, AWG27/7-AWG24/7 |

# THE CLASSIC – MFP8 CAT.6$_A$

Useful in a wide range of applications due to the **four-step cable relief** for cable diameters from 5.0 mm to 9.0 mm

## MFP8

- proven for years
- IPC contacts for reliable connections with solid and stranded conductors
- can be assembled to all conventional cable types in just 60 seconds
- no special tool required
- the slender design and extra-long release latch deliver unparalleled port densities
- data rates of up to 10 Gbit/s
- ideal for networks in offices and flats and distributed building services

## Order information

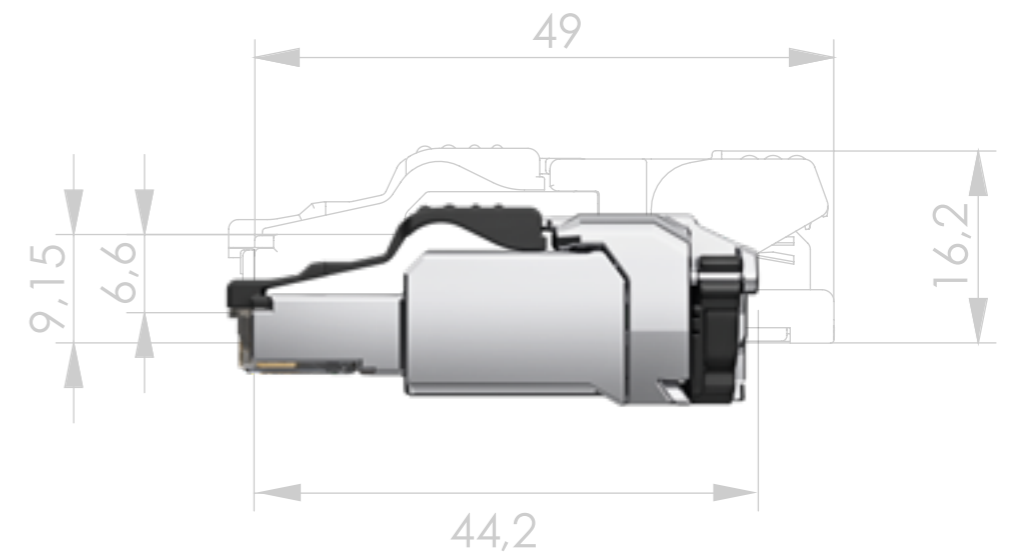| Article no. | Name | Description |
|---|---|---|
| **MFP8 Cat.6$_A$ for AWG24-22/1; AWG27-22/7** | | |
| 100023037 | CU-CN MFP8 T568A C6A D1-1.6 | MFP8 T568A Cat.6$_A$<br>incl. pre-assembled protection cap<br>AWG24/1-22/1, AWG27/7-22/7 |
| 100023038 | CU-CN MFP8 T568B C6A D1-1.6 | MFP8 T568B Cat.6$_A$<br>incl. pre-assembled protection cap<br>AWG24/1-22/1, AWG27/7-22/7 |
| **MFP8 Cat.6$_A$ for AWG26-24/1; AWG27-24/7** | | |
| 100023041 | CU-CN MFP8 T568A C6A D.85-1.1 | MFP8 T568A Cat.6$_A$<br>incl. pre-assembled protection cap<br>AWG26/1-24/1, AWG27/7-24/7 |
| 100023040 | CU-CN MFP8 T568B C6A D.85-1.1 | MFP8 T568B Cat.6$_A$<br>incl. pre-assembled protection cap<br>AWG26/1-24/1, AWG27/7-24/7 |
| **MFP8 for PROFINET** | | |
| 100023039 | CU-CN MFP8 PNO D1-1.6 | MFP8 PROFINET<br>incl. pre-assembled protection cap<br>AWG24-22/1, AWG27-22/7 |

# THE SHORT ONE —
# MFP8-SL CAT.6<sub>A</sub>

49

16,2

9,15  6,6

44,2

Reduced mechanical stress thanks to the **fine-graded cable strain relief** which can be adjusted to various cable diameters up to 9 mm. Small barbs hold the cable sheath in place for increased cable strain relief.

Reliable data transmission even with outside electrical interference due to **360° shielding**

## MFP8-SL

– all of the advantages of the proven MFP8 in a more compact design
– just 44 mm long
– integrated cable strain relief and cable shield connection
– the housing locks together securely in a single motion
– ideal for applications where space is at a premium such as the protective housing of IP cameras
– connects directly to Wi-Fi access points on the wall and ceiling
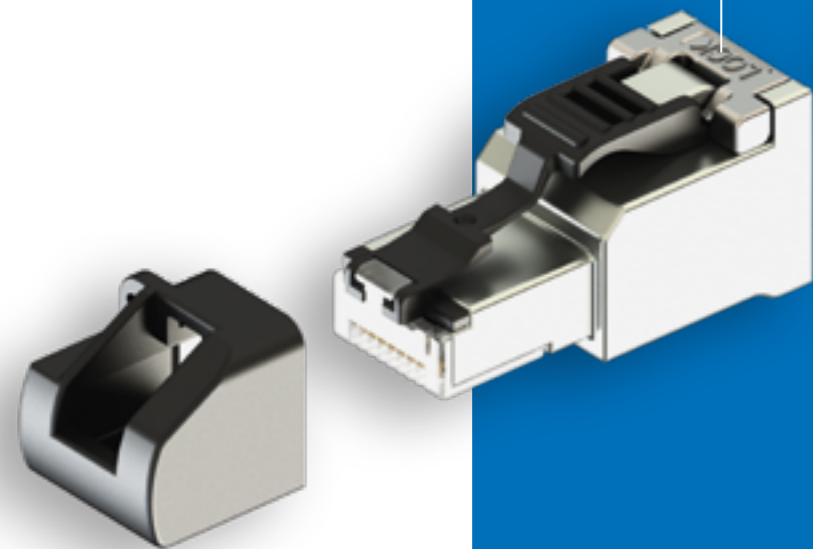– in distributors with exceptionally high port densities

## Order information

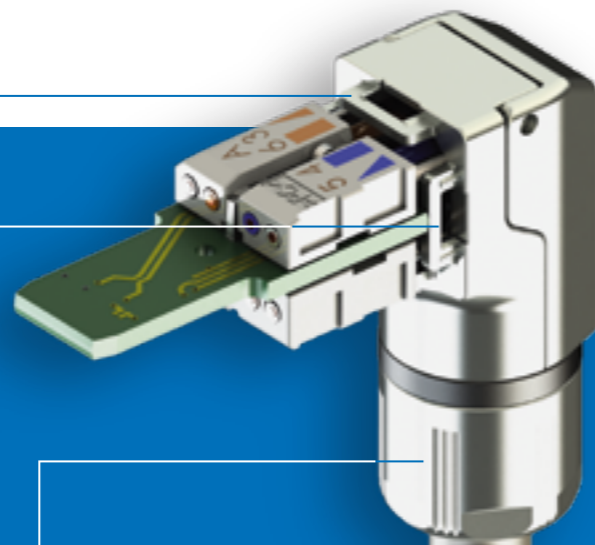| Article no. | Name | Description |
|---|---|---|
| **MFP8-SL Cat.6<sub>A</sub> for AWG24-22/1; AWG27-22/7** | | |
| 100035951 | CU-CN MFP8-SL T568A C6A D1-1.6 | MFP8-SL T568A Cat.6<sub>A</sub> incl. pre-assembled protection cap AWG24/1-22/1, AWG27/7-22/7 |
| 100039916 | CU-CN MFP8-SL T568B C6A D1-1.6 | MFP8-SL T568B Cat.6<sub>A</sub> incl. pre-assembled protection cap AWG24/1-22/1, AWG27/7-22/7 |
| **MFP8-SL Cat.6<sub>A</sub> for AWG26-24/1; AWG27-24/7** | | |
| 100039918 | CU-CN MFP8-SL T568A C6A D.85-1.1 | MFP8-SL T568A Cat.6<sub>A</sub> incl. pre-assembled protection cap AWG26/1-24/1, AWG27/7-24/7 |
| 100039917 | CU-CN MFP8-SL T568B C6A D.85-1.1 | MFP8-SL T568B Cat.6<sub>A</sub> incl. pre-assembled protection cap AWG26/1-24/1, AWG27/7-24/7 |
| **MFP8-SL for Profinet** | | |
| 100040203 | CU-CN MFP8-SL PNO D1-1.6 | MFP8-SL PROFINET incl. pre-assembled protection cap AWG24-22/1, AWG27/7-22/7 |

# THE FLEXIBLE ONE – MFP8-4X90 CAT.6$_A$

Compact and flexible as **all four cable directions at right angles** can be unlocked and adjusted even after installation.

Reliable cable strain relief from the **metal screw and clamp connection** for cable diameters from 5.5 mm to 10.0 mm.
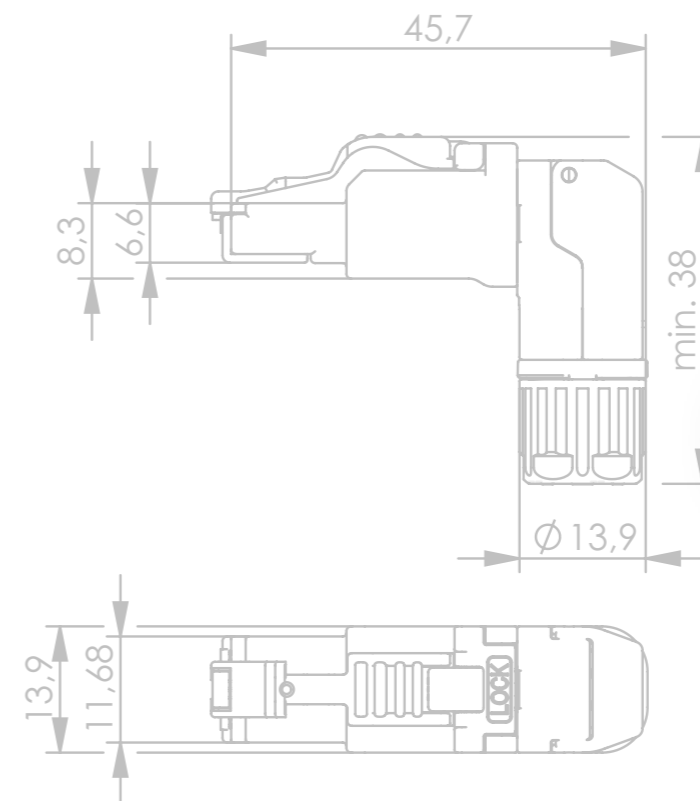
## Order information

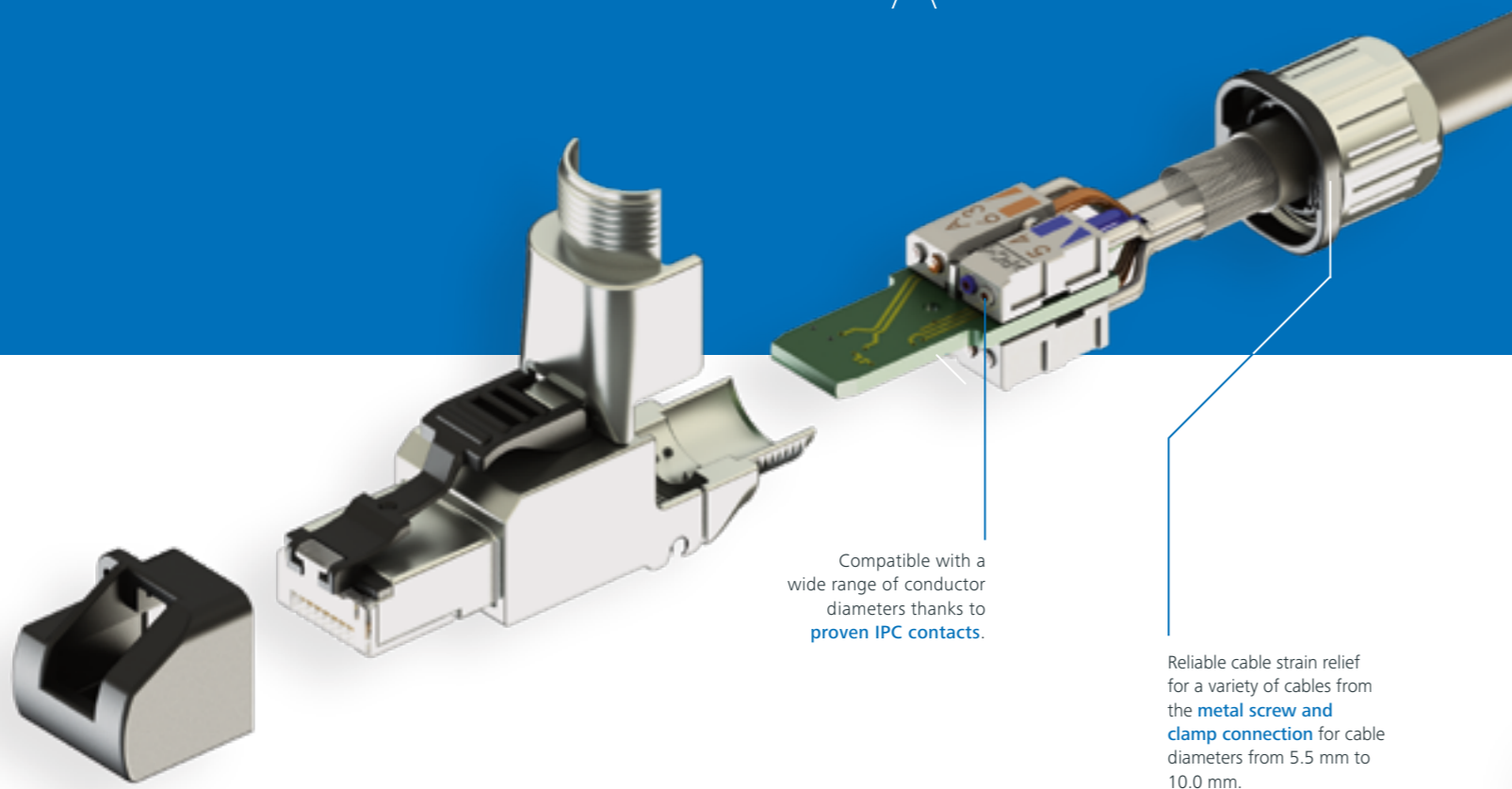| Article no. | Name | Description |
|---|---|---|
| **MFP8-4x90 Cat.6$_A$ for AWG24-22/1; AWG27-22/7** | | |
| 100023061 | CU_CN MFP8-4x90 T568A C6A D1-1.6 | MFP8-4x90 T568A Cat.6$_A$ incl. pre-assembled protection cap for AWG24/1-22/1, AWG27/7-22/7 |
| 100023062 | CU_CN MFP8-4x90 T568B C6A D1-1.6 | MFP8-4x90 T568B Cat.6$_A$ incl. pre-assembled protection cap for AWG24/1-22/1, AWG27/7-22/7 |
| **MFP8-4x90 Cat.6$_A$ for AWG26-24/1; AWG27-24/7** | | |
| 100023065 | CU-CN MFP8-4x90 T568A C6A D.85-1.1 | MFP8-4x90 T568A Cat.6$_A$ incl. pre-assembled protection cap AWG26/1-24/1, AWG27/7-24/7 |
| 100023064 | CU-CN MFP8-4x90 T568B C6A D.85-1.1 | MFP8-4x90 T568B Cat.6$_A$ incl. pre-assembled protection cap AWG26/1-24/1, AWG27/7-24/7 |
| **MFP8-4x90 for PROFINET** | | |
| 100023063 | CU-CN MFP8-4x90 PNO D1-1.6 | MFP8-4x90 PROFINET incl. pre-assembled protection cap AWG24-AWG22/1, AWG27-AWG22/7 |

## MFP8-4x90

- right-angled cable outlet for connecting of devices with specific cable outlet
- 90° cable outlet freely selectable in four directions
- cable outlet direction must be determined on site during installation

## MFP8-4x90 Cat.6$_A$ technical data:

- fully adjustable cable feed (4x90°)
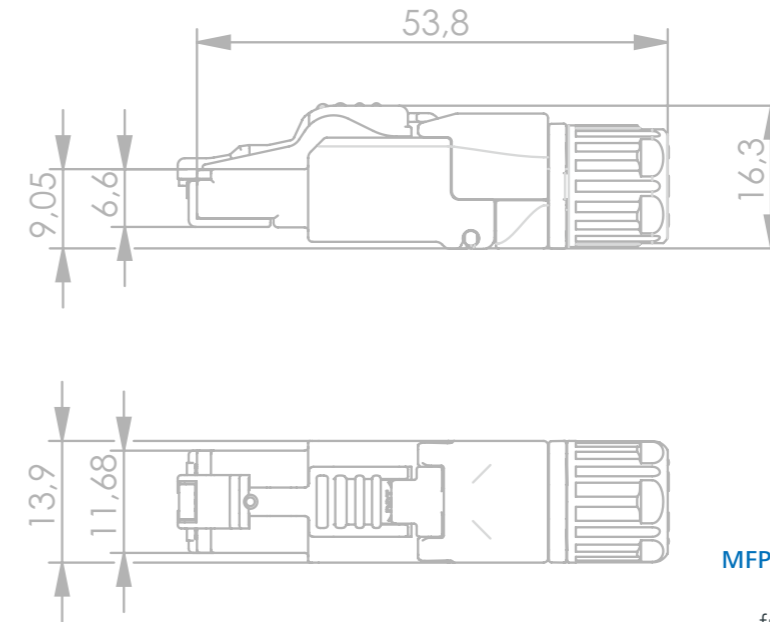- cable outer diameter: 5.5 – 10.0 mm
- cable strain relief: SW13

45,7

8,3

6,6

min. 38

Ø 13,9

13,9

11,68

# THE INDUSTRIAL ONE —
# MFP8 IE CAT.6$_A$



53,8

9,05  6,6  16,3

13,9  11,68

Compatible with a wide range of conductor diameters thanks to **proven IPC contacts**.

Reliable cable strain relief for a variety of cables from the **metal screw and clamp connection** for cable diameters from 5.5 mm to 10.0 mm.

## MFP8 IE

- full metal housing with 360° shielding for secure and reliable data transmission in electromagnetic environments
- heavy-duty screwed cable outlet
- for cables with outer diameters of up to 10 mm
- compatible with solid and stranded conductors
- ideal for industrial applications such as PROFINET, Ethernet, EtherCAT, EtherNet/IP, CC-Link and many more

## MFP8 IE Cat.6$_A$ technical data:

- cable outer diameter: 5.5 – 10.0 mm
- cable strain relief: SW13

## MFP8 Cat.8.1

The highest data rates demand complete reliability. The MFP8 Cat. 8.1 was one of the first RJ45 connectors in the world to exeed the enormous requirements of Category 8.1 according to ISO/IEC.

- compatible with 40 Gigabit Ethernet
- compatible with Four-Pair Power over Ethernet (4PPoE) according to IEEE 802.3bt
- ideal for data centres, server rooms, telecommunication rooms and demanding multimedia networks

| Article no. | Name | Description |
|---|---|---|
| **MFP8 IE Cat.8.1 for AWG24-22/1; AWG27-22/7** | | |
| 100023089 | CU-CN MFP8 IE T568B C8.1 D1-1.6 | MFP8 T568B Cat.8.1 with pre-assembled dust protection cap AWG24/1-22/1, AWG27/7-22/7 |
| 100023090 | CU-CN MFP8 IE T568B C8.1 D.85-1.1 | MFP8 IE T568B Cat.8.1 with pre-assembled dust protection cap AWG26/1-24/1, AWG27/7-24/7 |

## Order information

| Article no. | Name | Description |
|---|---|---|
| **MFP8 IE Cat.6$_A$ for AWG24-22/1; AWG27-22/7** | | |
| 100023084 | CU-CN MFP8 IE T568A C6A D1-1.6 | MFP8 IE T568A Cat.6$_A$ incl. pre-assembled protection cap AWG24/1-AWG22/1, AWG27/7-AWG22/7 |
| 100023085 | CU-CN MFP8 IE T568B C6A D1-1.6 | MFP8 IE T568B Cat.6$_A$ incl. pre-assembled protection cap AWG24/1-AWG22/1, AWG27/7-AWG22/7 |
| **MFP8 IE Cat.6$_A$ for AWG26-24/1; AWG27-24/7** | | |
| 100023088 | CU-CN MFP8 IE T568A C6A D.85-1.1 | MFP8 IE T568A Cat.6$_A$ incl. pre-assembled protection cap AWG26/1-AWG24/1, AWG27/7-AWG24/7 |
| 100023087 | CU-CN MFP8 IE T568B C6A D.85-1.1 | MFP8 IE T568B Cat.6$_A$ incl. pre-assembled protection cap AWG26/1-AWG24/1, AWG27/7-AWG24/8 |
| **MFP8 IE Cat.6$_A$  for PROFINET** | | |
| 100023086 | CU-CN MFP8 IE PNO D1-1.6 | MFP8 IE PROFINET incl. pre-assembled protection cap AWG24-AWG22/1, AWG27-AWG22/7 |

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