



Pushing Performance

# HARTING Solutions for 10 Gigabit Ethernet



People | Power | Partnership

# 8-pole *har-speed* M12 for 10 Gigabit Ethernet

A completely new type of product family: 8-pole M12 connectors for data transmission in IP65/67 environments. High-speed performance thanks to category 6 / transmission class E<sub>A</sub> up to 500 MHz for 1 and 10 Gigabit Ethernet.



## Field of Applications:

- Safety engineering, observation cameras, monitors and displays
- Next generation factory automation in the field, fit for Gigabit Ethernet and more

## Users:

- Equipment manufacturers in the safety engineering, observation cameras and IT devices, access points with IP 65/67 protection
- Manufacturers of automation technology, controllers and sensor/actuator boxes suitable for at least 1 Gigabit Ethernet
- Manufacturers of passenger information and entertainment systems in buses and trains

## Advantages

- Equipment technology migration into the high-speed data network technology market for 1 and 10 Gigabit Ethernet
- Proven connector technology (M12) with IP 65/67 protection, vibration resistant, offering long-term connection stability and exceptional reliability, also in harsh environments
- New 8-pole M12 mating face is supported by leading manufacturers in international standardization



*har-speed* M12

# HARTING RJ Industrial® 10G for 10 Gigabit Ethernet

Innovative interface concept for data cables in a high-speed RJ45 connector for the shortest on-site assembly and installation times. High-speed performance thanks to category 6 / transmission class E<sub>A</sub> up to 500 MHz for 1 and 10 Gigabit Ethernet.



## Field of Applications :

- Ethernet applications in industry, network technology and technical equipment for buildings
- Factory automation (installation in the field level)
- Integration of RJ45 insert into the **HARTING** product families for IP 65/67, like **HARTING** PushPull, Han® 3 A and many more
- Display systems and observation cameras

## Users:

- Installers and supplier of industrial cabling for automation and data network technology
- Installers for fitting buildings with IT and data networks (structured cabling)
- Equipment manufacturers providing a field-installable RJ45 data connector with their products, for example, as well as manufacturers of access points for wireless data transmission

## Advantages:

- Fast and reliable on-site installation delivering time savings of up to 30 %
- Use of future-proof RJ45 connection technology based on category 6 / transmission class E<sub>A</sub> up to 500MHz for 1 and 10 Gigabit Ethernet.
- Available in a very wide range of mating faces, such as PushPull V4 and V14, Han® 3 A, Han-Max® and IP 20
- Small and capable of handling multiport harmonica jacks; robust design suitable for industrial use



# Ha-VIS preLink® for 10 Gigabit Ethernet

Brand-new, innovative installation concept for data cabling in industrial and functional buildings. High-speed performance thanks to category 6 / transmission class E<sub>A</sub> up to 500 MHz for 1 and 10 Gigabit Ethernet.



## Field of Applications:

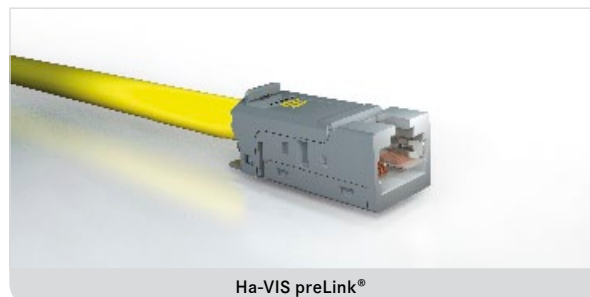
- Application-independently data cabling for industrial and functional buildings, as well as for outdoor areas
- Expansion of structured cabling in the office area, in industrial and outdoor installation

## Users:

- Operators of data networks in industry, office, research, traffic and transportation, logistics, commerce and many more
- System integrators for complete solutions for automation projects, building services and equipment or other data networks with active and passive technology

## Advantages:

- Fast and reliable on-site installation with time savings of up to 30 % or use of a pre-assembled and tested preLink® data channel from the factory
- Independence in choosing the mating face thanks to the design of a freely configurable Ha-VIS preLink® – short changeover times when needed
- Future-proof due to the high available bandwidth of the Ha-VIS preLink® in category 6 / transmission class E<sub>A</sub> up to 500 MHz for 1 and 10 Gigabit Ethernet.





# Innovation is our strength

**HARTING** focuses on innovations in order to develop products and solutions that optimally satisfy customer requirements.

Demonstrating our innovative strengths, here are three new products that not only incorporate and implement the latest trends in data network technology, but are even a step ahead of future developments.

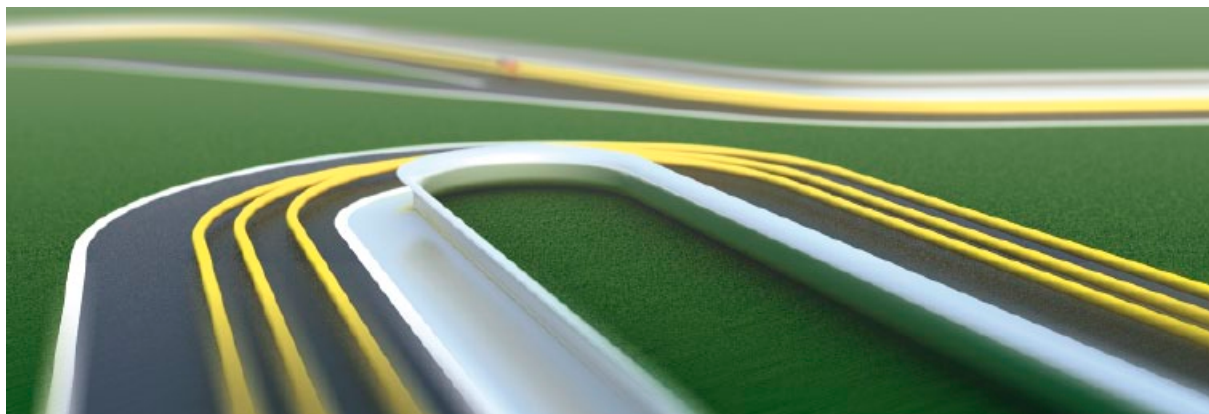
Finding the new 8-pole har-speed M12 connector, **HARTING** is consistently supporting machine builders, as well as system and plant engineering companies in making the move from Fast Ethernet to Gigabit Ethernet and 10 Gbit. The rugged design is excellent for applications in the IP 65/67 area, for example, in security and surveillance technology. **HARTING** and other leading manufacturers in the connection technology segment are promoting the new 8-pole har-speed M12 mating face in the international standardization.

RJ45 connector technology is becoming increasingly important in the industrial and automation environment. In addition to its simple handling, the fast and reliable on-site assembly and installation

represent another crucial advantage. With the new field-installable **HARTING** RJ Industrial® 10G connector in IP 20 and in many **HARTING** IP 65/67 series, such as the PushPull in the 4 and 14 variants or the Han® 3 A, **HARTING** shortens installation times by up to 30 %, while simultaneously increasing the usable transmission speed to up to 10 Gbit.

In addition to the high transmission and installation speeds, the flexible deployment and quick replacement of cabling components in networks play a crucial role for users. **HARTING** has responded to these customer requirements with Ha-VIS preLink® and developed an innovative new termination technology that is implemented with various interfaces, such as RJ45 or M12. At the same time, it also forms the foundation of a new type of cabling system in industrial and functional buildings.

Speed is the central idea behind the innovative new products from **HARTING**. And speed also counts when our solutions are at work in customers' applications, because that is when a faster pace translates as competitive advantages.





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