



Pushing Performance



People | Power | Partnership

## **HARTING** system cabling and customised solutions

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Your challenge is ours.

# Challenge accepted

## System cabling and customised solutions

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Our products have been setting the bar worldwide for more than seven decades. But not just with standard products. For unique requirements, we customise our solutions to the exacting application needs of our customers, using our extensive product range as the basis – from system cabling to the complete development of customer-specific components.

And whether customised or not, all components have one thing in common: HARTING's high standard for maximum quality and economic viability.

### Our expertise:

- ✓ Product management
- ✓ Project engineering
- ✓ Manufacturing
- ✓ Quality control





# From idea to solution

## The process

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Fast, efficient, customer-oriented – we ensure that the path to your customised solution is as efficient as possible. We commit to being in constant dialogue with you: from the initial orientation through production to qualification.



### Orientation

Together with you we design the optimal solution for your specific situation.



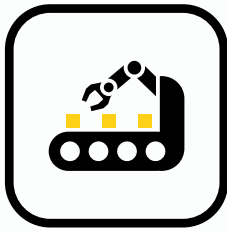
### Framework conditions

To make sure the process goes as smoothly as possible, we identify, document and plan the project.



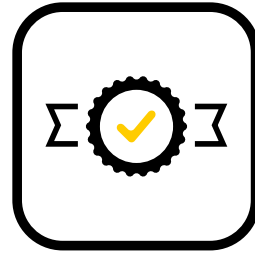
### Specifications

Our manufacturing specialists plan the conditions to ensure adherence to your requirements.



### Production

Your solution is produced by us in accordance with the highest quality standards.



### Quality control

Each realised component of your solution is tested and certified by us.



# At the core of what we do

## Your advantage

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Throughout all process steps we only have a single goal in mind: to realise a solution for you that offers optimum added value, both technically and economically.

**1**

### **Prompt communication**

Consistent communication and your participation early in the process allow you to actively participate every step of the way and communicate new requirements directly.

**2**

### **Guaranteed quality**

Based on decades of experience, your solution is created to extremely high-quality standards using technically advanced series components, in order to ensure that HARTING meets your expectations.

**3**

### **Impressive efficiency**

Fast processes, efficient throughput and short delivery times minimise the time required from the initial idea to the final customised solution.



4

#### **Maximum reliability**

From scheduling through purchasing to storage and shipping – all processes are handled in-house, giving you the reliability you need to plan safely.

5

#### **Exacting standards**

Your solution is developed not only to meet your technical requirements, but also your economic expectations. You can count on it.



# We combine what belongs together

## System cabling

The system cabling is the backbone of any application. Improper selection and laying of the cabling can lead to serious faults. Our cable assemblies offer optimised electrical and mechanical support, as all assemblies are extensively tested to guarantee reliable functioning in your application. By combining serial components into efficient package solutions or assembled cable harnesses, we create solutions of the highest quality standard – for the flawless transmission of data, signals and power for a wide range of applications.



System cable RJ45  
Cat.6A



System cable  
Han® 1A



Sensor actuator box



Fibre optic system cable  
Han® PushPull SCRJ



System cable  
M12 D-coded and RJ45



System cable T1 single pair Ethernet



System cable M12  
with PushPull  
and screw locking  
mechanism



System cable ix Industrial®



# Mission possible

## Wide range of solutions

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From conveyor technology, automation technology, transportation, mechanical and plant engineering, e-mobility to energy distribution – through the realisation of customised cabling solutions we offer cross-market expertise. Our connectivity solution for your requirements – from car jumper cables, overmoulded cable assemblies to customised distribution boxes.



Mounting panel with cable assemblies for inter-car jumper solutions



Energy distributor for decentralised drive technology



Charging plug with different cabling solutions



Wiring harness for bogies



Distribution box with Han® connectors







# Cabling solutions for conveyor systems

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Wiring problems occur regularly when installing and operating conveyor systems – and they often result in extensive troubleshooting and delays. Pre-assembled and tested data, signal and power cabling can help in these situations.

In order to make the construction, operation and maintenance of conveyor systems more efficient, we run a dedicated competence centre for development and global production.



System cable M12 D-coded and RJ45



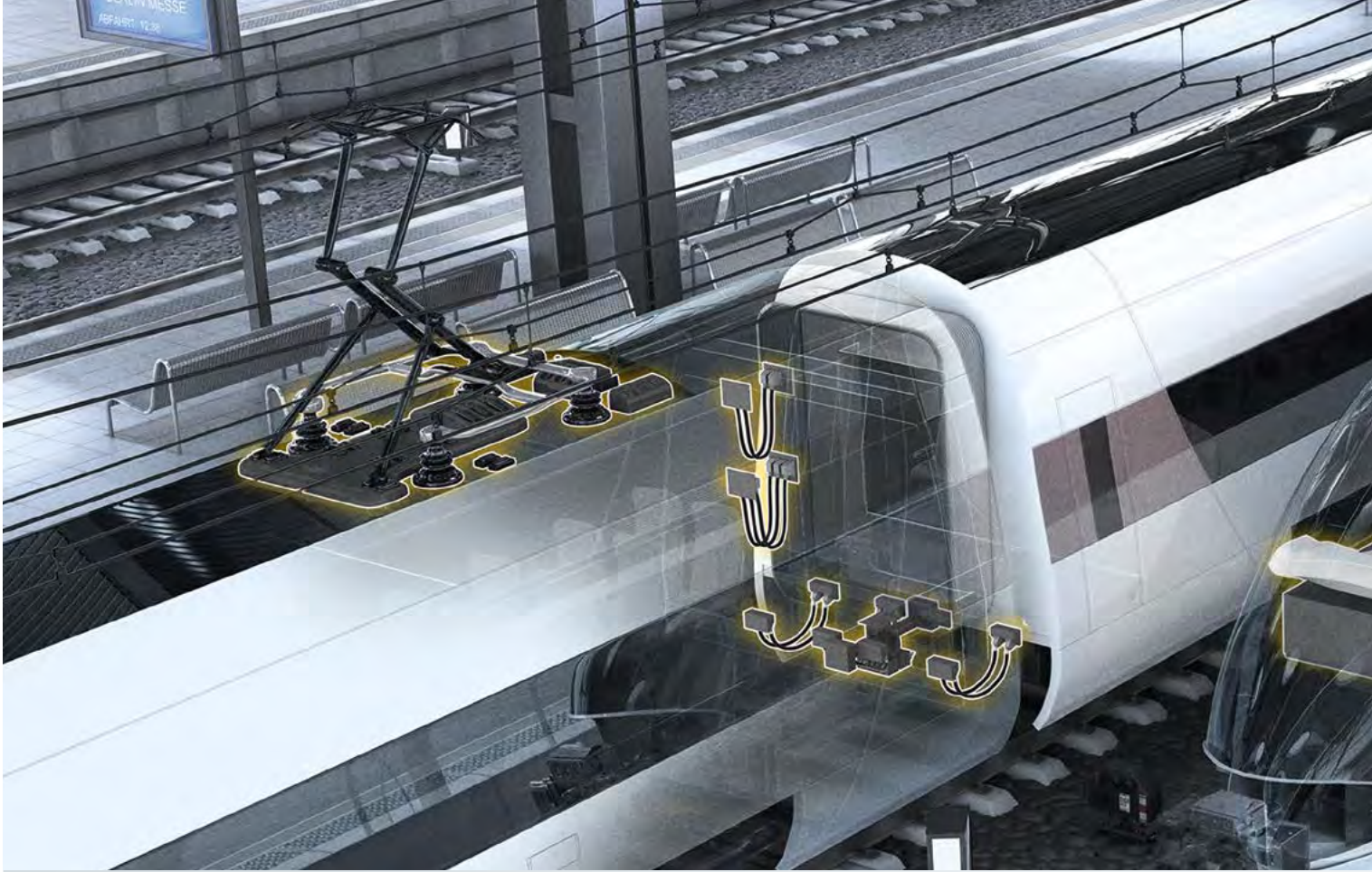
Energy distributor for decentralised drive technology



Cable assembly with Han® connectors for decentralised drive technology



Solution of Sensor-Actuator-Box with M12 A-coded cabling



## System solutions for the railway industry

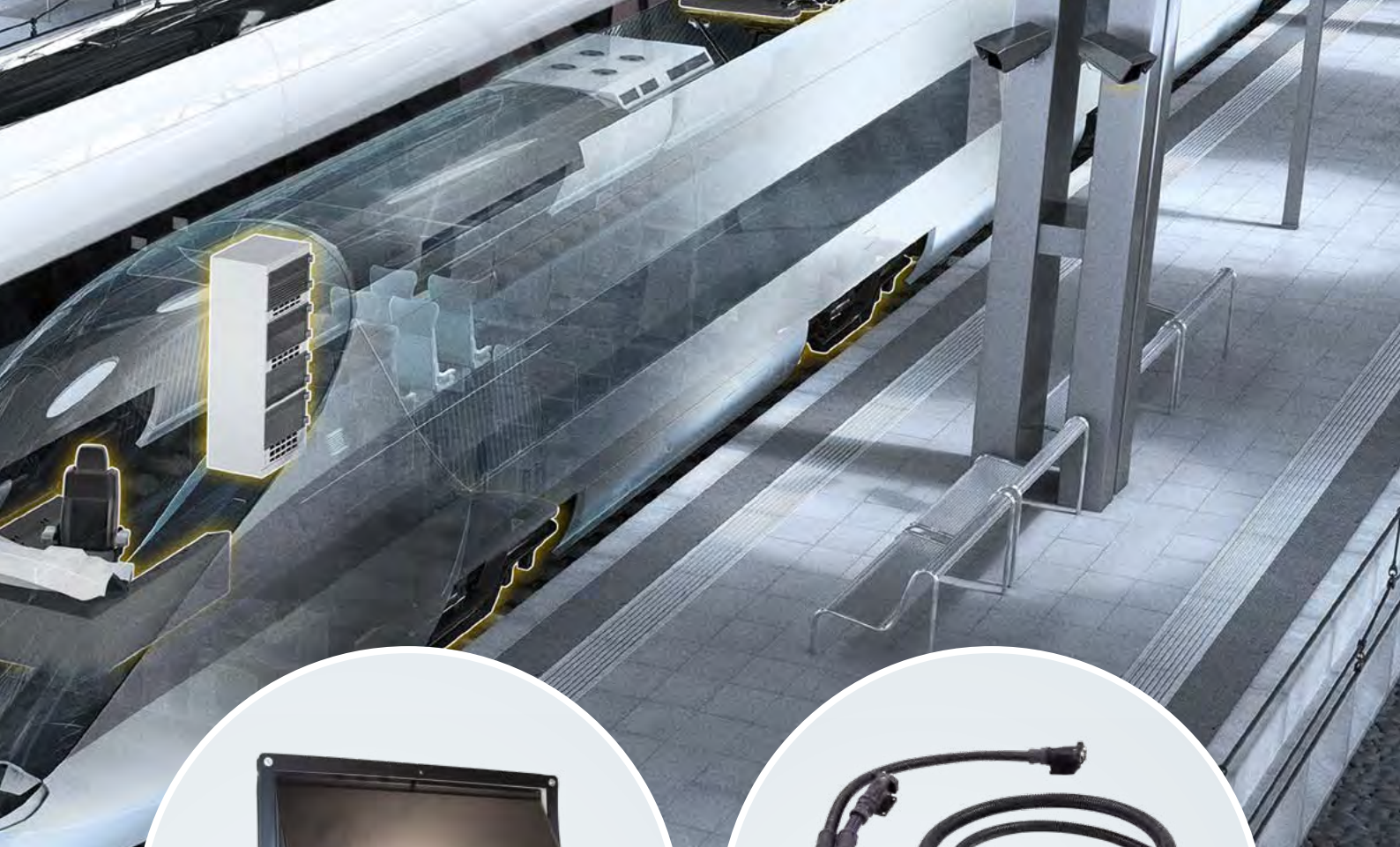
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The railway industry has very high standards when it comes to connectors. We have extensive expertise in the development of pre-assembled cables and cable harnesses as well as power, data and signal cabling in, around and on train carriages.

With our special competence centre for inter-car jumper solutions, we offer modular cabling

concepts for connection between the train cars as well as their internal connection. The demand for fast Internet access, passenger information systems in passenger trains, as well as the necessary camera monitoring of train, track and platforms, constantly places new demands on the network infrastructure of railways and trains, which we support with innovative cabling solutions.





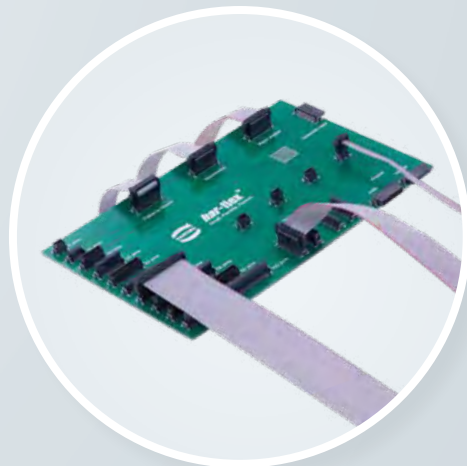
Mounting panel with cable assemblies for inter-car jumpers



Wiring harness for bogies



System cable M12 with PushPull and screw locking mechanism



PCB with *har-flex*® flat ribbon solution for control units





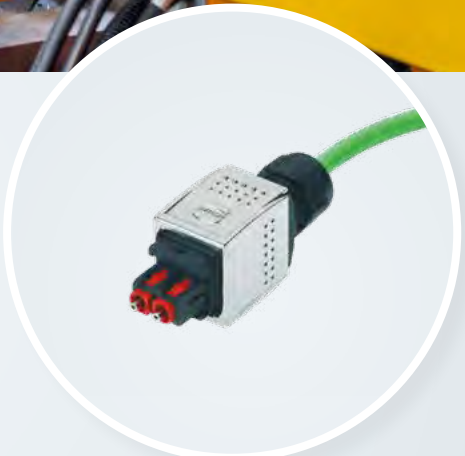
## System and datanetwork cabling for automation technology

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High data rates, many different connection options and limited space. We offer a wide range of solutions for the challenges of automation technology – including the complete cabling of all interfaces. Our standardised connectors and customised interfaces

support the modular design of production lines – easy to expand, robust and reliable. They play an important role in shortening development times, facilitating transport and simplifying installation and maintenance.





Fibre optic system cable  
Han® PushPull SCRJ



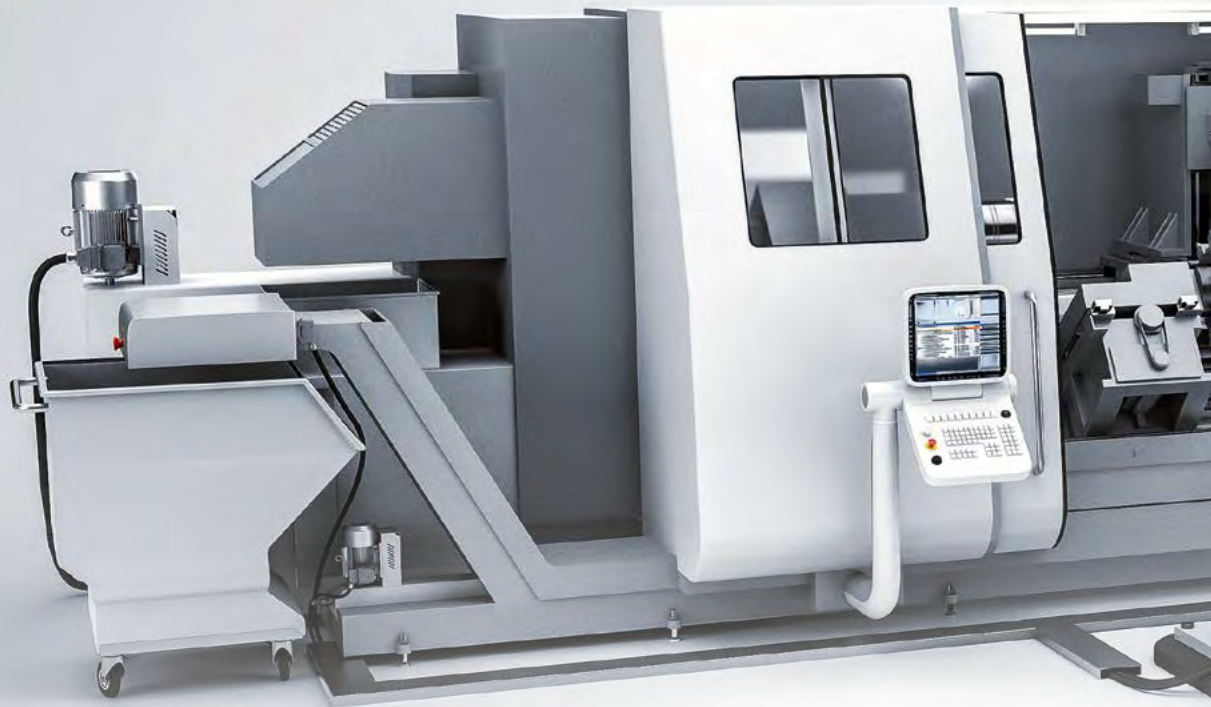
PCB with device connectivity  
and system cable M12



System cable ix Industrial®  
and T1 Single Pair Ethernet



System cable RJ45 Cat.6A



## Modular cabling solutions for mechanical and plant engineering

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A high degree of modularity is needed in mechanical engineering when it comes to data, signal and power connections. It is also important to prevent long setup and downtimes. To meet these requirements, we offer a wide range of solutions, including customised cabling. We also produce customised solutions for the special requirements of machine constructions. We offer the full range – from standardised

or customised electromechanical interfaces to components and cable assemblies for the transmission of data, signals and power. Our solutions enable machines and systems to be designed modularly and flexibly for the plastics and packaging industries. Integrated into modern IoT systems, these solutions are helping to create more effective production processes for the manufacturing requirements of tomorrow.





System cables Han® 1A and cable assembly with Han® connector



Distribution box with Han® connectors and Sensor-Actuator-Box M12



System cable IP65/67 PushPull V4 RJ45 and Mini PushPull ix industrial®



System cable M12 X-coded



## System and data network cabling for data centres

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The protection and availability of data is the main concern in data centres. This means that downtimes must be avoided and waiting times minimised. Also required are fast installation times and flexible expansion of the storage capacity, while at the same time optimising the space requirements.

In addition to plug-and-play solutions for cabling the various voltage levels, we also offer infrastructure solutions - for example for uninterruptible power supply, video surveillance, access control and cooling.

Cable assembly with Han-Compact® connector and CEE coupling





Fiber optic system cable  
HARTING PushPull



Cable assembly with  
Han-Eco® connector



Connector Han® S for  
battery storage systems

Complex wiring on site is no longer necessary with prefabricated and tested cable assemblies. Wiring errors can be prevented and installation, maintenance and downtime reduced. Our versatile and space-saving connection concepts

offer the ideal solution for applications in complex and state-of-the-art data centres. In addition, our modular connector solutions ensure reliable data, signal and power supply.





# Customised charging connectivity solutions for the e-mobility sector

As a long-term partner, we not only supply the automotive industry with standard products in the field of electromobility, but also offer numerous customer-specific solutions.

For the different customer needs we have specific components and charging cables in different cable types, lengths, performance

levels and designs. There is also a growing demand for a standard charging socket and customer-specific charging sockets that perfectly match the design of the wallbox.



Charging plug holders



Charging plug with different cabling solutions



Charging socket for wall boxes and charging stations



Flat ribbon cable assembly har-flex®

# Outstanding quality

## Accreditation and quality testing

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The HARTING name stands for superior reliability – worldwide. This is possible due to our uniform quality standards, a certified management system as well as constant quality testing of our products by our Quality & Technology Centre.

Before our products and solutions can be used by customers, they must pass extensive quality tests in our testing laboratory:

- Tests during development to maintain the high quality requirements.
- Analysis of quality and long-time properties under various environmental conditions.
- Simulated aging using temperature and shock tests, as well as mechanical loads.
- Qualification and validation based on the customer's specifications and/or a standardised testing procedure.



HARTING Quality and Technology Centre



# We are where you need us

## Production and sales locations

We realise your solutions where you need them – worldwide.



### Europe, Middle East & Africa

- Denmark
- Germany
- Belgium
- France
- Finland
- Great Britain
- Italy
- Netherlands
- Norway
- Austria
- Poland
- Romania
- Russia
- Sweden
- Switzerland
- Slovakia
- Spain
- Czech Republic
- Turkey
- Hungary

- UAE
- South Africa

### Americas

- USA
- Canada
- Brazil
- Mexico

### Asia & Australia

- China
- Hong Kong
- Indonesia
- Japan
- South Korea
- Singapore
- Malaysia
- Taiwan
- India
- Australia



Pushing Performance

**HARTING.com**

the gateway to your country's website.

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