HARTING

Pushing Performance

People | Power | Partnership

HARTING Han-Quick Lock® Termination

Transforming customer wishes into concrete solutions

The HARTING Technology Group is skilled in the fields of electrical, electronic and optical connection, transmission and networking, as well as in manufacturing, mechatronics and software creation. The Group uses these skills to develop customized solutions and products such as connectors for energy and data transmission applications including, for example, mechanical engineering, rail technology, wind energy plants, factory automation and the telecommunications sector. In addition, HARTING also produces electro-magnetic components for the automobile industry and offers solutions in the field of Enclosures and Shop Systems.
The HARTING Group currently comprises 37 subsidiary companies and worldwide distributors employing a total of more than 3.500 staff.

HARTING Subsidiary company HARTING Representatives

We aspire to top performance.

Connectors ensure functionality. As core elements of electrical and optical wiring, connection and infrastructure technologies, they are essential in enabling the modular construction of devices, machines and systems across a very wide range of industrial applications. Their reliability is a crucial factor guaranteeing smooth functioning in the manufacturing area, in telecommunications, applications in medical technology – in fact, connectors are at work in virtually every conceivable application area. Thanks to the consistent further development of our technologies, customers enjoy investment security and benefit from durable, long term functionality.

Always at hand, wherever our customers may be.

Increasing industrialization is creating growing markets characterized by widely diverging demands and requirements. The search for perfection, increasingly efficient processes and reliable technologies is a common factor in all sectors across the globe.

HARTING is providing these technologies – in Europe, America and Asia. The **HARTING** professionals at our international subsidiaries engage in close, partnership based interaction with our customers, right from the very early product development phases, in order to realize customer demands and requirements in the best possible manner.

Our people on location form the interface to the centrally coordinated development and production departments. In this way, our customers can rely on consistently high, superior product quality – worldwide.

Our claim: Pushing Performance.

HARTING provides more than optimally attuned components. In order to serve our customers with the best possible solutions, **HARTING** is able to contribute a great deal more and play a closely integrative role in the value creation process.

From ready assembled cables through to control racks or ready-to-go control desks: Our aim is to generate the maximum benefits for our customers – without compromise!

Quality creates reliability – and warrants trust.

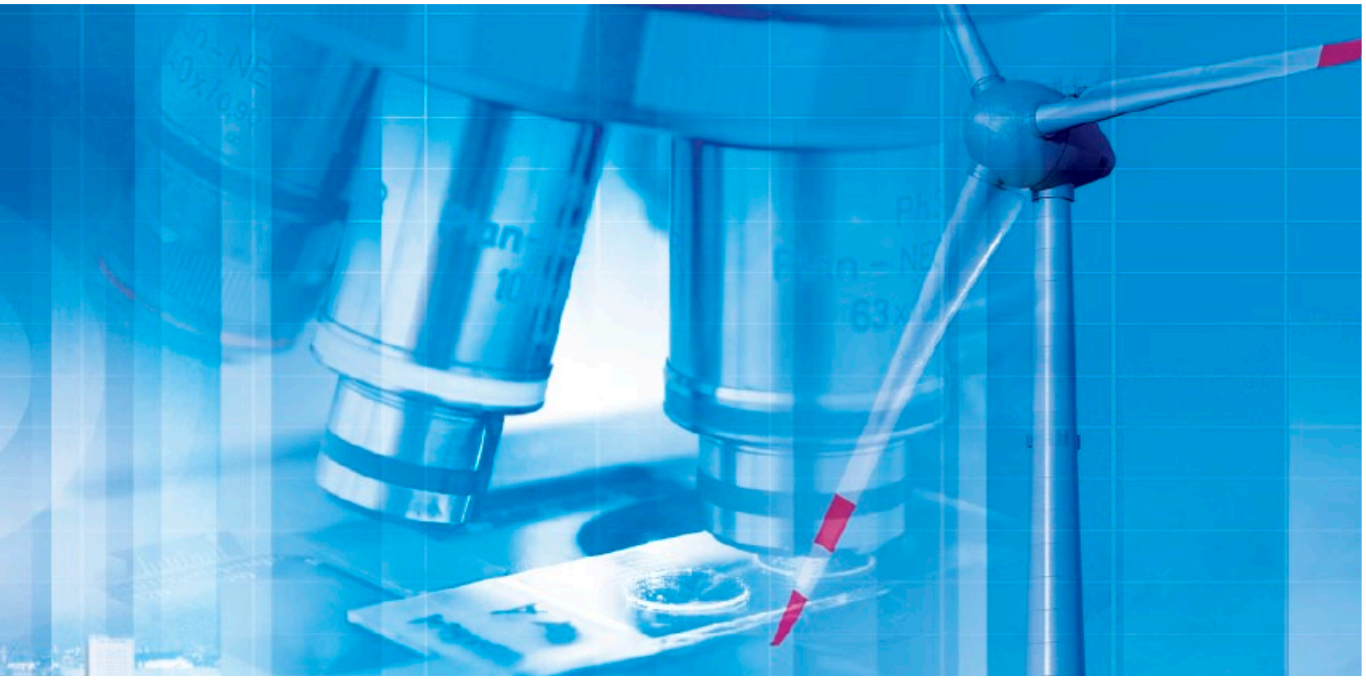
The **HARTING** brand stands for superior quality and reliability – worldwide. The standards we set are the result of consistent, stringent quality management that is subject to regular certifications and audits.

EN ISO 9001, the EU Eco-Audit and ISO 14001:2004 are key elements here. We take a proactive stance to new requirements, which is why **HARTING** ranks among the first companies worldwide to have obtained the new IRIS quality certificate for rail vehicles.

HARTING technology creates added value for customers.
Technologies by **HARTING** are at work worldwide. **HARTING**'s presence stands for smoothly functioning systems, powered by intelligent connectors, smart infrastructure solutions and mature network systems. In the course of many years of close, trust-based cooperation with its customers, the **HARTING** Technology Group has advanced to one of the worldwide leading specialists for connector technology. Extending beyond the basic functionalities demanded, we offer individual customers specific and innovative solutions. These tailored solutions deliver sustained effects, provide investment security and enable customers to achieve strong added value.

Opting for HARTING opens up an innovative, complex world of concepts and ideas.
In order to develop connectivity and network solutions serving an exceptionally wide range of connector applications and task scopes in a professional and cost optimized manner, **HARTING** not only commands the full array of conventional tools and basic technologies. Over and beyond these capabilities, **HARTING** is constantly harnessing and refining its broad base of knowledge and experience to create new solutions that ensure continuity at the same time. In securing this know-how lead, **HARTING** draws on a wealth of sources from both in-house research and the world of applications alike.
Salient examples of these sources of innovative knowledge include microstructure technologies, 3D design and construction technology, as well as high temperature or ultrahigh frequency applications that are finding use in telecommunications or automation networks, in the automotive industry, or in industrial sensor and actuator applications, RFID and wireless technologies, in addition to packaging and housing made of plastics, aluminum or stainless steel.

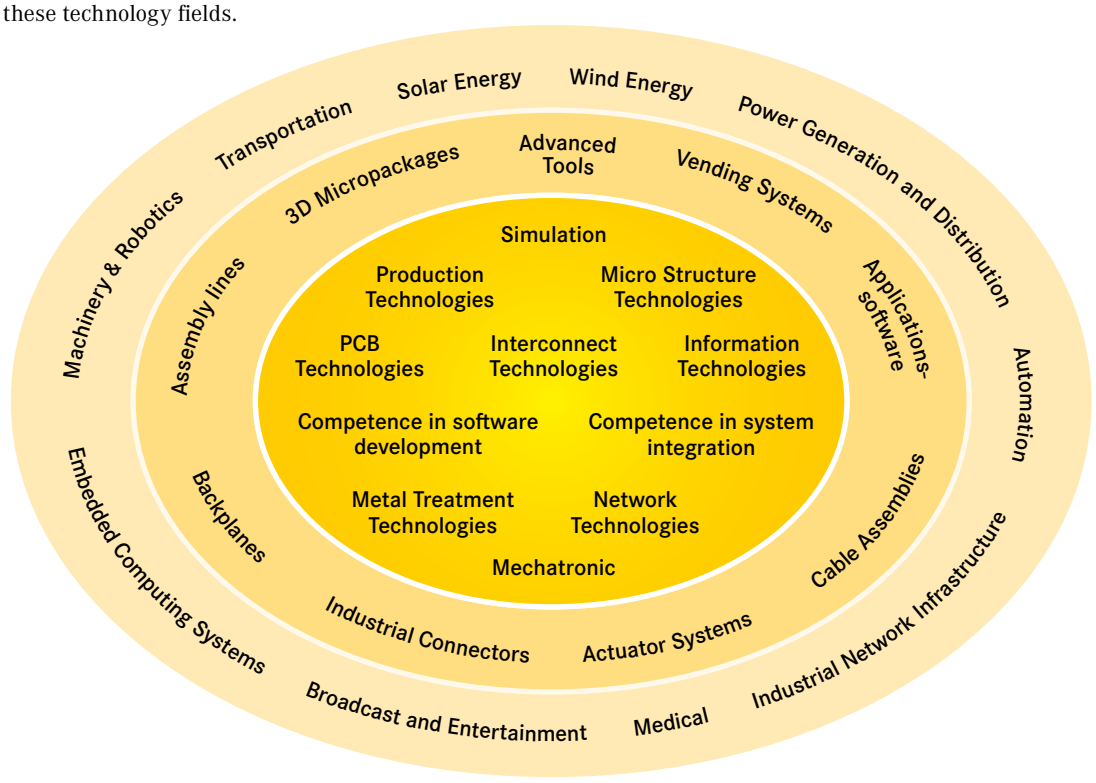
HARTING solutions extend across technology boundaries.
Drawing on the comprehensive resources of the group's technology pool, **HARTING** devises practical solutions for its customers. Whether this involves industrial networks for manufacturing automation, or hybrid interface solutions for wireless telecommunication infrastructures, 3D circuit carriers with microstructures, or cable assemblies for high-temperature applications in the automotive industry – **HARTING** technologies offer far more than components, and represent mature, comprehensive solutions attuned to individual customer requirements and wishes. The range covers ready-to-use cable configurations, completely assembled backplanes and board system carriers, as well as fully wired and tested control panels.
In order to ensure the future proof design of RF- and EMC-compatible interface solutions, the central **HARTING** laboratory (certified to EN 45001) provides simulation tools, as well as experimental, testing and diagnostics facilities all the way through to scanning electron microscopes. In the selection of materials and processes, lifecycle and environmental aspects play a key role, in addition to product and process capability considerations.



HARTING knowledge is practical know-how generating synergy effects.

HARTING commands decades of experience with regard to the applications conditions of connectors in telecommunications, computer and network technologies and medical technologies, as well as industrial automation technologies, such as the mechanical engineering and plant engineering areas, in addition to the power generation industry or the transportation sector. HARTING is highly conversant with the specific application areas in all of these technology fields.

The key focus is on applications in every solution approach. In this context, uncompromising, superior quality is our hallmark. Every new solution found will invariably flow back into the HARTING technology pool, thereby enriching our resources. And every new solution we go on to create will draw on this wealth of resources in order to optimize each and every individual solution. In this way, HARTING is synergy in action.



Field of application

HARTING Industrial Connectors are applicable in a wide variety of electronic and electrical applications. The degree of protection of all hoods and housings is in accordance with International Standard IEC 60 529, EN 60 529.

- Power Utilities
- Robotics
- Chemical Plants
- Machine Tool Controls
- Injection Moulding
- Industrial Instrumentation
- Conveyor Equipment
- Cabinet builders
- and many more.

Certified according to EN ISO 9001 in design/development, production, installation and servicing

Specifications:

DIN EN 60 664-1
Table concerning clearance and creepage distances

DIN EN 61 984
Connectors and plug devices

Note:
Connectors should not be coupled and decoupled under electrical load. Connectors of the same or different series being mounted side by side may be protected against incorrect mating by the use of coding options.

General information:

It is the user's responsibility to check whether the components illustrated in this catalogue comply with different regulations from those stated in special fields of application which we are unable to foresee.

We reserve the right to modify designs in order to improve quality, keep pace with technological advancement or meet particular requirements in production.

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Description of the Han-Quick Lock® system

1. Precise technique, so simple as Han-Quick Lock®

This new connection technique from HARTING combines the reliability and the simple operation of the cage clamp connection with the low space requirements of crimp technology.

Han-Quick Lock® is ideally suited to high contact densities and is considerably superior over other connection techniques. No other technology is so simple, space saving and fast. For this vibration safe connection, no special tools are necessary

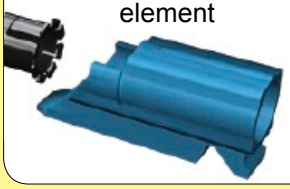
2. Complete build-up

The Han-Quick Lock® termination consists of three individual components:

1. Contact with cone

2. Spring

3. Active termination element



Suitable cable types

The termination technology allows to use extra fine wires according to VDE 0295, class 5

The following wires are not suitable:

- solid wires

- stranded wires

- twisted pair wires

Description of the Han-Quick Lock® system

3. Fast, simple and compact!

3.1 Assembly

1. Step:
Removing cable sheath and wire stripping (10 mm). Do not twist conductors..

2. Step:
Insert wire into the Han-Quick Lock® contact chamber.

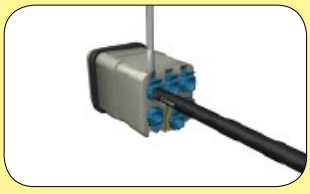
3. Step:
Push in the active termination element with a screwdriver until it comes to a stop.

4. Step:
Visual inspection - Check if the wire is deep enough in the contact chamber.

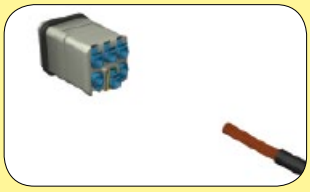
5. Step:
Tensile test - Check, whether the wire is in the contact chamber firmly enough..

3.2 Disassembly

1 Step:
Insert a screwdriver into the side slot of the active termination element at an angle and slide this out



2 Step:
Pull the wire out.



Description of the Han-Quick Lock® system

4.0 Active termination element

X-ray of the new Han-Quick Lock® connection showing the method of termination.

Photos showing the combination of wire, cone and spring.

5.0 Advantages of Han-Quick Lock®

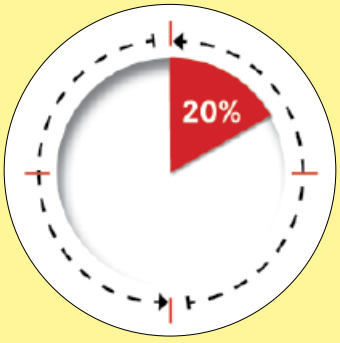
Han-Quick Lock® is a new generation of connection technology.
This HARTING patent technique offers a number of advantages which are explained more precisely on the following pages.

The special features of this connection technology are:

1. Time saving
2. High vibration safety
3. High wire pull out forces
4. Low contact resistance

5.1 Time saving

With use of Han-Quick Lock® a time saving of more than 20% is achieved against a traditional screw connection technique.



Description of the Han-Quick Lock® system

5.2 Vibration safety

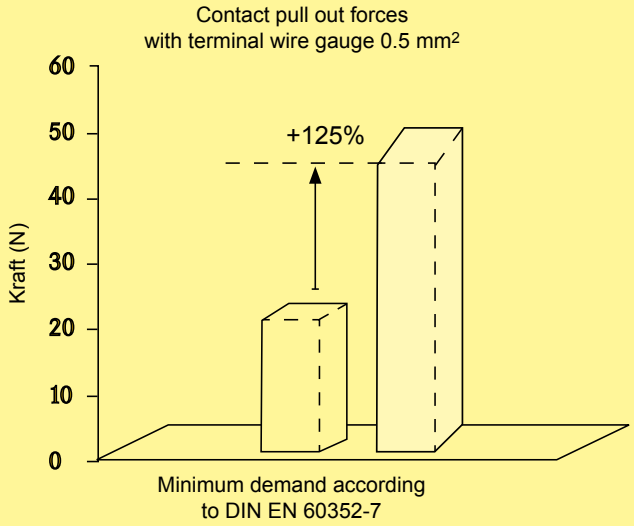
The wires terminated with Han-Quick Lock® fulfil the high requirements (shock and vibration test according to DIN EN 61373) from the transportation market.

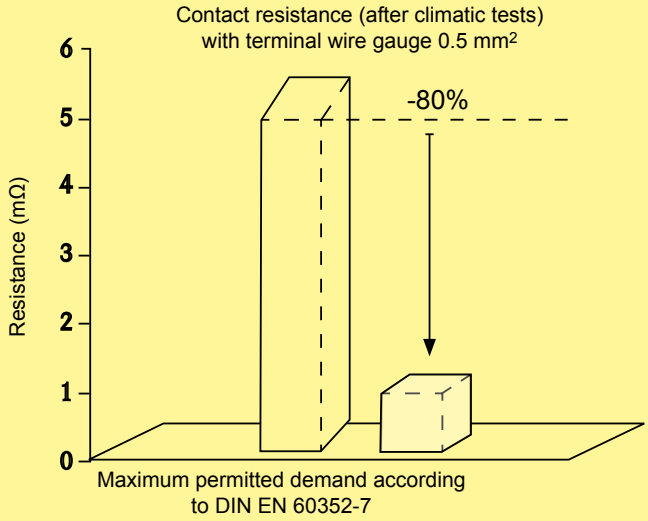
5.3 Contact pull out forces

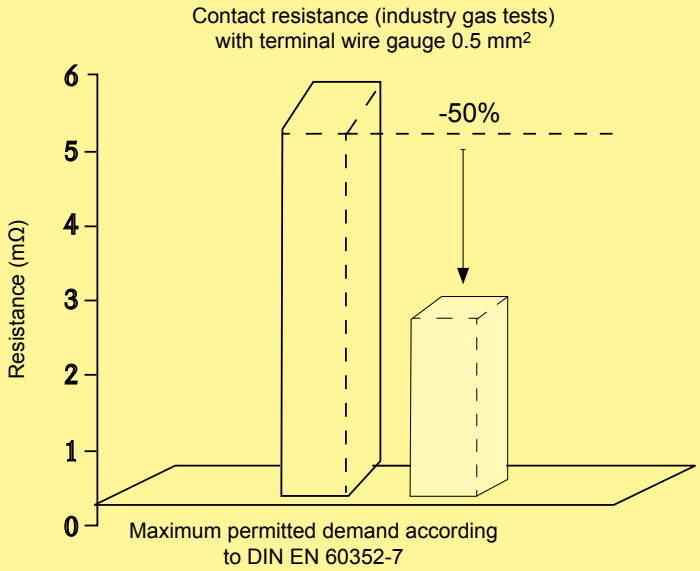
The required minimum demands according to DIN EN 60352-7 are greatly exceeded.

5.4 Contact resistance

Contact resistance Han-Quick Lock® termination achieves considerably lower figures than the permitted values after climate and gas tests according to DIN EN 60352-7.







Features

- Fast, simple and robust termination technique
- Field assemly without a spacial tool
- Compatible with many approved Han® insert connectors
- Combines high contact density similar to crimp termination with the simple connection like a cage clamp terminal

Technical characteristics

Material:	
Isolation body:	Polycarbonate
Active termination element:	Polycarbonate
Quick-Lock spring:	Stailless steel
Contakt:	Copper alloy
Blue slide:	Wire gauge 0.5 ... 2.5 mm^2 AWG 20 ... 14
Black slide:	Wire gauge 0.25 ... 1.5 mm^2 AWG 23 ... 16
Stripping length:	10 mm
Insulating resistance:	> 10^{10} Ohm
Flammability :	according to UL 94 V 0
Mech. working life:	≥ 500 mating cycles
Termination tool:	Screwdriver 0.4 x 2.5 mm bzw. 0.5 x 3.0 mm


Han® 3 A Quick Lock


Han® 4 A Quick Lock


Han® Q 4/2 Axial screw with Quick Lock


Han® Q 5/0 Quick Lock

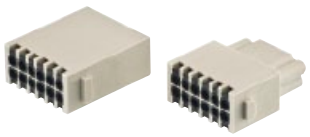

Han® Q 8/0 Quick Lock

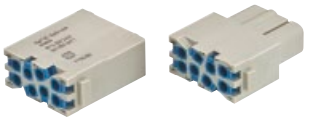

Han® Q 12/0 Quick Lock


Han® 3 PushPull Power 4/0 Quick Lock


Han® 7 D Quick Lock


Han® 8 D Quick Lock


Han DD® Quick Lock


Han® EE Quick Lock


Han-*Yellock*® Quick Lock

Further components you can find in our HARTING Industrial Connectors Han® catalogue

Features

- Extended colour coded termination ranges
- Han-Quick Lock® quick termination technology
- Field assembly without special tool
- Compatible with standard Han® 3 A inserts
- Reduced assembly times
- Fully compatible with the metal and plastic housings of the Han® 3 A series

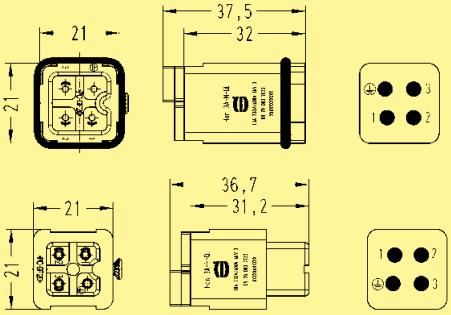
Technical characteristics

Degree of protection	IP 65 / IP 67
Number of contacts	3 + PE
Electrical data according to	
DIN EN 61 984	10 A 230/400 V 4 kV 3
Working current	10 A
Working voltage conductor-ground	230 V
Working voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Termination	Han-Quick Lock®
blue slide	
Terminal wire gauge	0.5 ... 2.5 mm^2 (AWG 20 - 14)
max. Insulation diameter	3.6 mm
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2 (AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ohm
Material	Polycarbonate
Flammability according to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

Number of contacts

3 + ⏚

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Quick Lock termination				
0.5 ... 2.5 mm²	**09 20 003 2633**	**09 20 003 2733**		
0.25 ... 1.5 mm²	**09 20 003 2634**	**09 20 003 2734**		



Contact arrangement view from termination side

Features

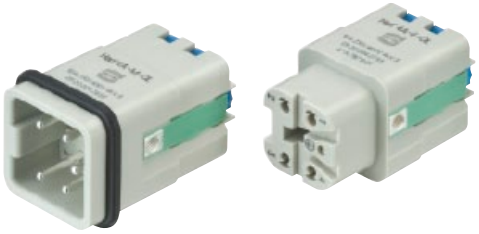
- Extended colour coded termination ranges
- Han-Quick Lock® quick termination technology
- Field assembly without special tool
- Compatible with standard Han® 4 A inserts
- Reduced assembly times
- Fully compatible with the metal and plastic housings of the Han® 3 A series

Technical characteristics

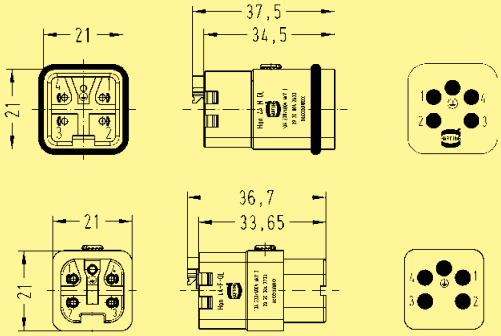
Degree of protection	IP 65 / IP 67
Number of contacts	4 + PE
Electrical data according to	
DIN EN 61 984	10 A 230 / 400 V 4 kV 3
Working current	10 A
Working voltage conductor-ground	230 V
Working voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Pollution degree also	0 A 320 / 500 V 4 kV 2
Termination	Han-Quick Lock®
blue slide	
Terminal wire gauge	0.5 ... 2.5 mm^2 (AWG 20 - 14)
max. Insulation diameter	3.6 mm
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2 (AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ohm
Material	Polycarbonate
Flammability according to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

Number of contacts

4 + ⏚



Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Quick Lock termination 				
0.5 ... 2.5 mm²	**09 20 004 2633**	**09 20 004 2733**		
0.25 ... 1.5 mm²	**09 20 004 2634**	**09 20 004 2734**		



Contact arrangement view from termination side

Features

- Field assembly without special tools
- Compatible with Han® Q 4/2 standard inserts with crimp terminations
- Reduced wiring times
- Inserts suitable for standard plastic and metal hoods/housings with additional PE contact from the Han-Compact® size
- Space-saving and compact design
- With or without Han-Quick Lock® signal contacts as an option

Attention

- For termination please use only hexagonal screw driver with wrench size SW 2.
- If PE contact is not used:
  Please screw the PE contact maximal on both sides clockwise with a hexagonal screwdriver, wrench size SW 2.

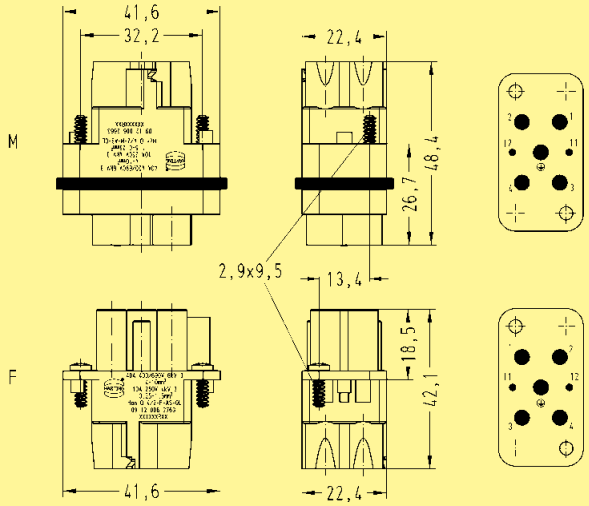
Technical characteristics

Degree of protection	IP 65 / IP 67
Number of contacts	4/2 + PE
Electrical data acc. to DIN EN 61 984	
Power area	40 A 400/690 V 6 kV 3
Rated current	40 A
Rated voltage conductor - ground	400 V
Rated voltage conductor - conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Termination Powerarea	Axial scew terminal
Signal area	10 A 250 V 4 kV 3
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Termination Signalarea	Han-Quick Lock®
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2 (AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ω
Material insert	Polycarbonate
Flammability acc. to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

Number of contacts

4/2 + ⏚

Inserts with axial screw termination
Signal contacts with Han-Quick Lock® termination

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Han® Q 4/2 Quick Lock 	09 12 006 2663	09 12 006 2763	 contact arrangement view termination side	

Features

- Extended colour coded termination ranges
- Han-Quick Lock® quick termination technology
- Field assembly without special tool
- Compatible with Han® Q 5/0 inserts
- Reduced assembly times
- Fully compatible with the metal and plastic housings of the Han® 3 A series

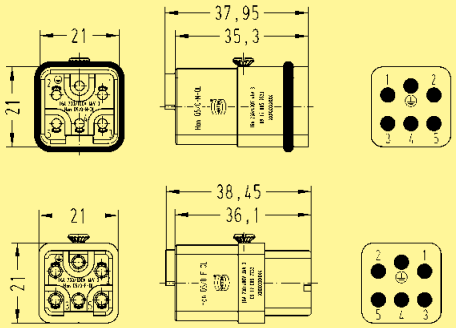
Technical characteristics

Degree of protection	IP 65 / IP 67
Number of contacts	5 + PE
Electrical data according to	
DIN EN 61 984	16 A 230/400 V 4 kV 3
Working current	16 A
Working voltage conductor-ground	230 V
Working voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Pollution degree 2 also	16 A 320/500 V 4 kV 2
Termination	Han-Quick Lock®
blue slide	
Terminal wire gauge	0.5 ... 2.5 mm^2
	(AWG 20 - 14)
max. Insulation diameter	3.6 mm
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2
	(AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ohm
Material	Polycarbonate
Flammability according to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

Number of contacts

5 + ⏚

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Quick Lock termination 				
0.5 ... 2.5 mm²	**09 12 005 2633**	**09 12 005 2733**		
0.25 ... 1.5 mm²	**09 12 005 2634**	**09 12 005 2734**		



Contact arrangement view from termination side

Features

- Extended colour coded termination ranges
- Han-Quick Lock® quick termination technology
- Field assembly without special tool
- Compatible with Han® Q 8/0 inserts
- Reduced assembly times
- Inserts suitable for standard plastic and metal hoods/housings with additional PE contact from the Han-Compact® size
- Space-saving and compact design
- Leading protective ground contact

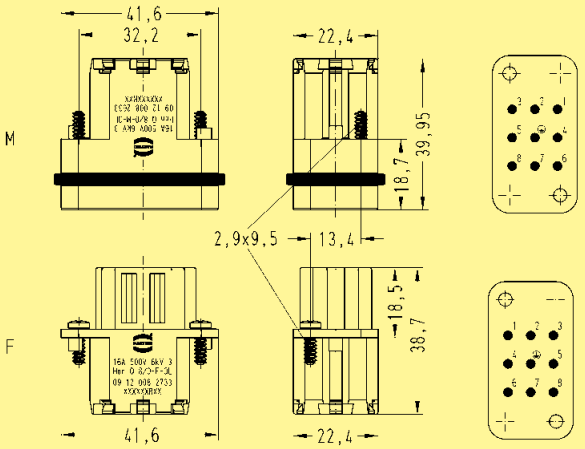
Technical characteristics

Number of contacts	8 + PE
Electrical data according to DIN EN 61 984	16 A 500 V 6 kV 3
Working current	16 A
Working voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 400 / 690 V 6 kV 2
Termination	Han-Quick Lock®
blue slide	
Terminal wire gauge	0.5 ... 2.5 mm^2 (AWG 20 - 14)
max. Insulation diameter	3.6 mm
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2 (AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ohm
Material	Polycarbonate
Flammability according to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

Number of contacts

8 + ⏚

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Quick Lock termination				
0.5 ... 2.5 mm²	**09 12 008 2633**	**09 12 008 2733**		
0.25 ... 1.5 mm²	**09 12 008 2634**	**09 12 008 2734**		



Contact arrangement view from termination side

Features

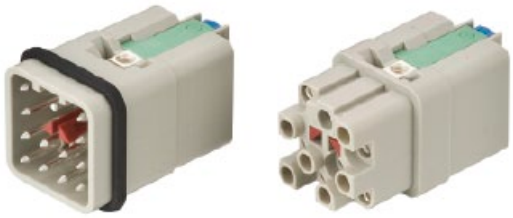
- Extended colour coded termination ranges
- PE-contact with Han-Quick Lock® quick termination technology
- 16x coding possibilities without loss of a contact place
- Fully compatible with the metal and plastic housings of the Han® 3 A series
- 12 contact chambers for the contacts of the series Han D® with crimp termination

Technical characteristics

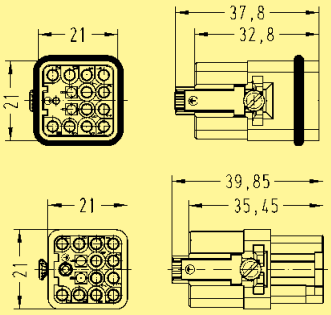
Number of contacts	12 + PE
Electrical data according to	
DIN EN 61 984	10 A 400 V 6 kV 3
Working current	10 A
Working voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	10 A 400 / 690 V 6 kV 2
Termination PE contact	Han-Quick Lock®
blue slide	
Terminal wire gauge	0.5 ... 2.5 mm^2
	(AWG 20 - 14)
max. Insulation diameter	3.6 mm
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2
	(AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ohm
Material	Polycarbonate
Flammability according to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

Number of contacts

12 + ⏚



Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Quick Lock termination				
0.5 ... 2.5 mm²	**09 12 012 3001**	**09 12 012 3101**		
0.25 ... 1.5 mm²	**09 12 012 3004**	**09 12 012 3104**		



Contact arrangement view from termination side

Features

- HARTING PushPull Technologie
- Compact, space-saving design
- Finger protection
- 4 times coding without contact loss
- Panel feed-through: male
- Cable side: female

Technical characteristics

Locking device	PushPull-Technology acc. to IEC 61 076-3-118
Degree of protection	IP 65 / IP 67
Number of contacts	4 + PE
Electrical data according to DIN EN 61 984	16 A 690 V 4 kV 3
Cable diameter	
metal version	4 ... 11 mm
plastic version	9 ...13 mm (0.5 ... 2.5 mm²) 6.5 ... 9.5 mm (0.25 ... 1.5 mm²)
Termination	Han-Quick Lock®
Flammability acc. to UL 94	V 0
Mating cycles	min. 500
Temperature range	-40 °C ... +170 °C

blue slide

Terminal wire gauge	0.5 ... 2.5 mm² (AWG 20 - 14)
max. Insulation diameter	3.6 mm

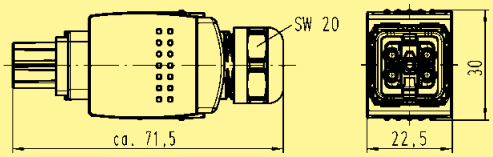
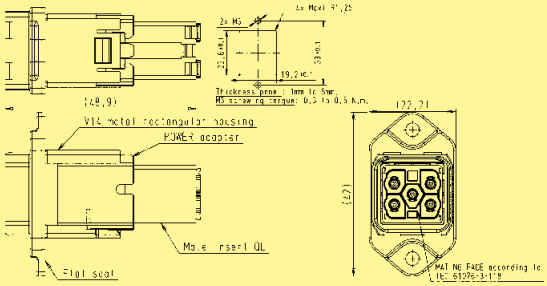
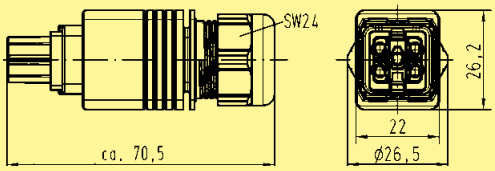
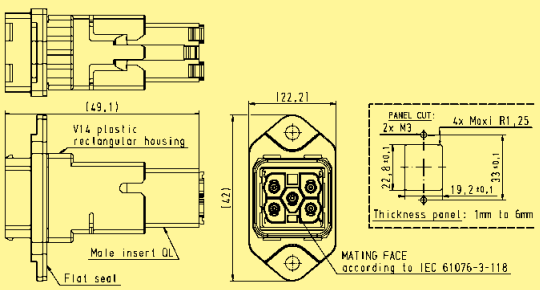
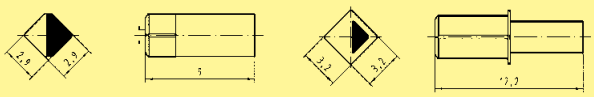
black slide

Terminal wire gauge	0.25 ... 1.5 mm² (AWG 23 - 16)
max. Insulation diameter	3.0 mm

Housing material	Zinc diecast (nickel plated), Plastic, black

Number of contacts

4 + ⏚

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
 0.5 ... 2.5 mm² 0.25 ... 1.5 mm²	**09 35 232 0401** **09 35 234 0401**			
 0.5 ... 2.5 mm² 0.25 ... 1.5 mm²		**09 35 232 0311** **09 35 234 0311**		
 0.5 ... 2.5 mm² 0.25 ... 1.5 mm²	**09 35 232 0423** **09 35 234 0421**			
 0.5 ... 2.5 mm² 0.25 ... 4.5 mm²		**09 35 232 0331** **09 35 234 0331**		
Kodierelement - je 10 Stifte für Stift-/ Buchseneinsatz	**09 35 000 6190**		Male Female 	

Features

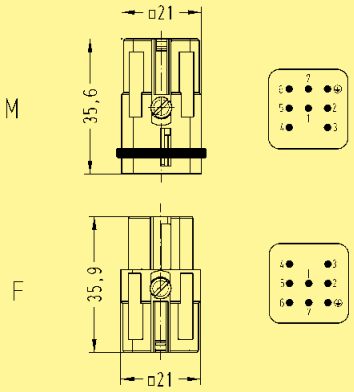
- Colour coded termination ranges
- Han-Quick Lock® quick termination technology
- Field assembly without special tools
- Compatible with Han® 7 D standard inserts with crimp terminals
- Reduced wiring times
- Insert suitable for plastic hoods and housings using the Han® 3 A size
- Space-saving and compact design
- Leading protective ground contact

Technical characteristics

Number of contacts	7 + PE
Electrical data	
acc. to EN 61 984	10 A 250 V 4 kV 3
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Pollution degree 2 also	10A 230/400 V 4 kV 2
Termination	Han-Quick Lock®
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2 (AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

Number of contacts

7 + ⏚

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Quick Lock termination 	**09 21 007 2632**	**09 21 007 2732**	 Contact arrangement view from termination side	

Features

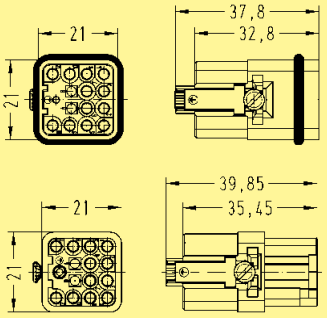
- Colour coded termination ranges
- Han-Quick Lock® quick termination technology
- Field assembly without special tools
- Compatible with Han® 8 D standard inserts with crimp terminals
- Reduced wiring times
- Insert suitable for metal hoods and housings using the Han® 3 A size
- Space-saving and compact design
- Leading protective ground contact

Technical characteristics

Number of contacts	8
Electrical data	
acc. to EN 61 984	10 A ~50 V/–120 V 4 kV 3
Rated current	10 A
Rated voltage	~50 V / –120 V
Rated impulse voltage	4 kV
Pollution degree	3
Termination	Han-Quick Lock®
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2 (AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

Number of contacts

8

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Quick Lock termination 	**09 36 008 2632**	**09 36 008 2732**	 Contact arrangement view from termination side	

Features

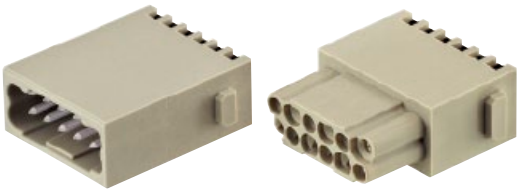
- Colour coded termination ranges
- Innovative Han-Quick Lock® termination technology
- Field assembly without special tools
- Mating compatible with standard Han® DD module with crimp terminal
- Reduced wiring times

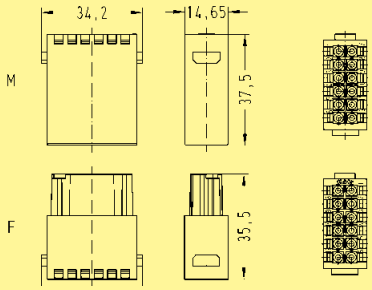
Technical characteristics

Number of contacts	12
Electrical data	
acc. to EN 61 984	10 A 250 V 4 kV 3
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 3 mΩ
Termination	Han-Quick Lock®
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2 (AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

Number of contacts

12



Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Quick Lock termination 	**09 14 012 2632**	**09 14 012 2732**	 Contact arrangement view from termination side	

Features

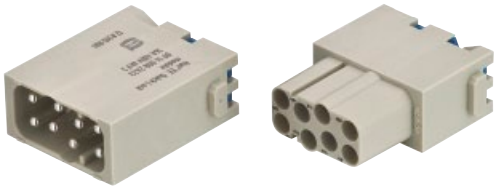
- Extended colour coded termination ranges
- Innivative Han-Quick Lock® termination technology
- Field assembly without special tools
- Compatible to Han® EE module with crimp terminal
- Reduced wiring times

Technical characteristics

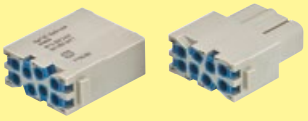
Number of contacts	8
Electrical data	
acc. to EN 61 984	16 A 400 V 6 kV 3
Rated current	16 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Termination	Han-Quick Lock®
blue slide	
Terminal wire gauge	0.5 ... 2.5 mm^2
	(AWG 20 - 14)
max. Insulation diameter	3.6 mm
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2
	(AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

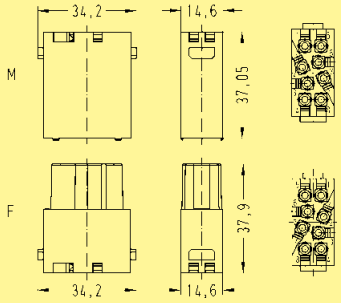
Number of contacts

8



Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Quick Lock termination				
0.5 ... 2.5 mm²	**09 14 008 2633**	**09 14 008 2733**		
0.25 ... 1.5 mm²	**09 14 008 2634**	**09 14 008 2734**		





Contact arrangement view from termination side

Stock items in bold type

Features

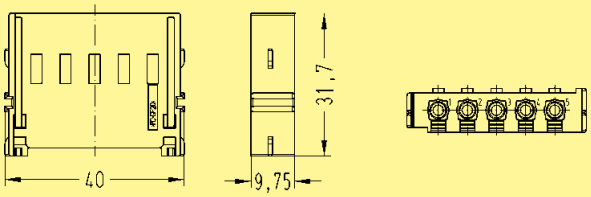
- Extended colour coded termination ranges
- Snap-in assembly from mating side and from termination side
- Bus bar within bridge attachements
- Finger safe design
- Fast and tool-less assembly
- Compatible to Han-*Yellock*® crimp modules

Technical Characteristics

Number of contacts	5
Electrical data	
acc. to DIN EN 61 984	20 A 500 V 6 kV 3
Rated current	20 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	20 A 690 V 8 kV 2
Material	copper alloy
Surface	
- hart-silver plated	3 µm Ag
Contact resistance	≤ 2 mΩ
Termination	Han-Quick Lock®
blue slide	
Terminal wire gauge	0.5 ... 2.5 mm^2
	(AWG 20 - 14)
max. Insulation diameter	3.6 mm
black slide	
Terminal wire gauge	0.25 ... 1.5 mm^2
	(AWG 23 - 16)
max. Insulation diameter	3.0 mm
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	≥ 500 mating cycles

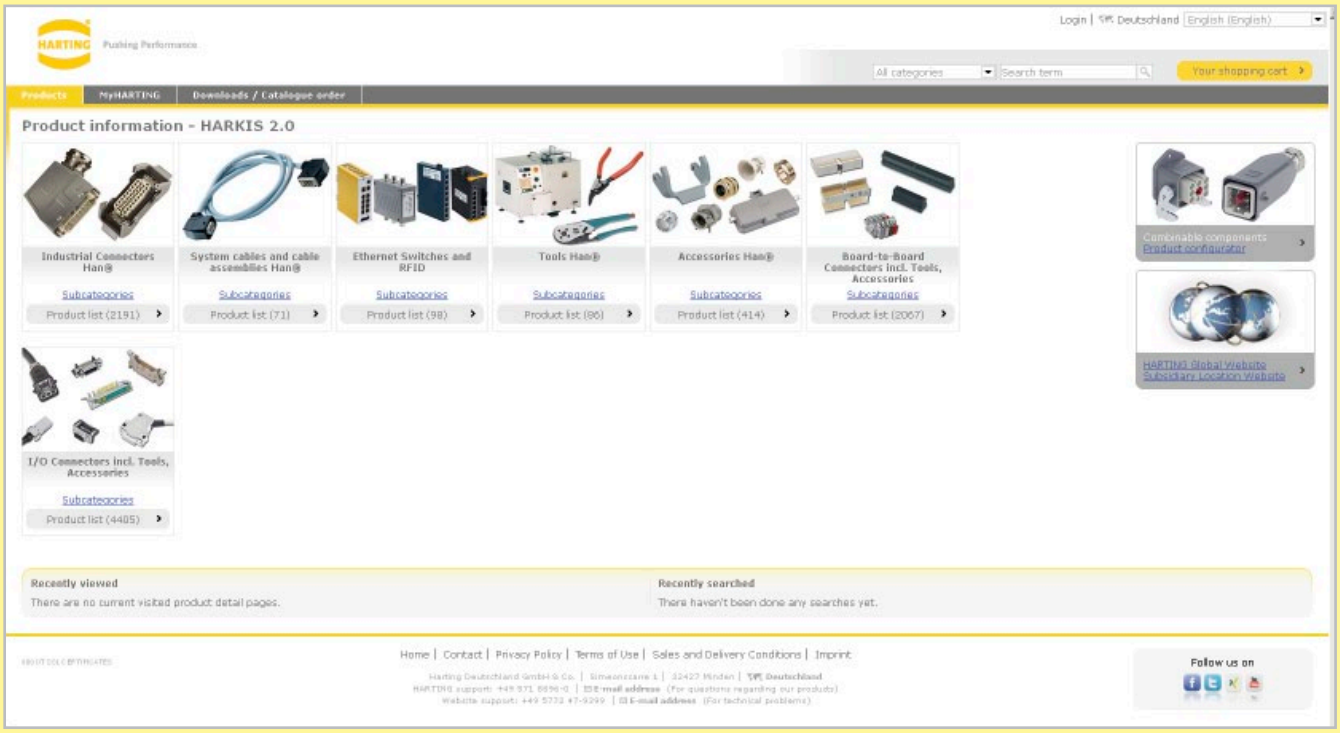
Number of contacts

5

Identification	Part-Number	Drawing	Dimensions in mm
Han-*Yellock*® module with Quick-Lock termination 			
0.5 ... 2.5 mm²	**11 05 105 2633**		
0.25 ... 1.5 mm²	**11 05 105 2634**		

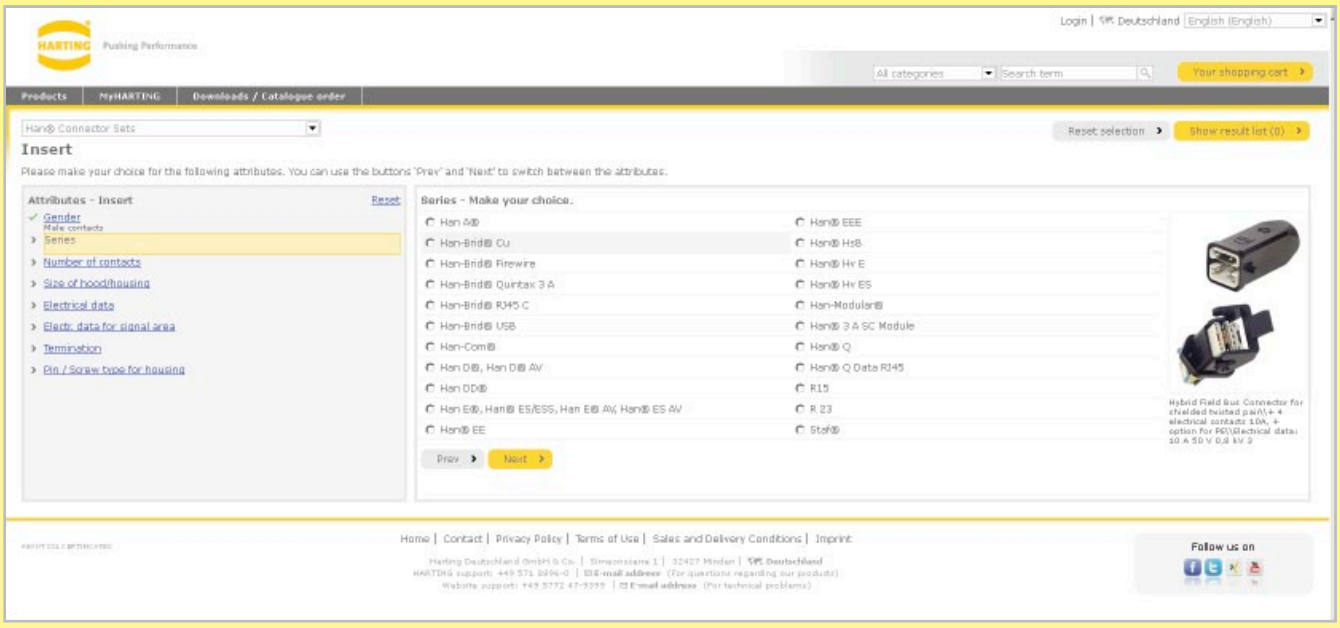
Please find the whole product portfolio of the Han-*Yellock*® series in the catalogue „HARTING Han-*Yellock*®“

You can find the **HARTING eCatalogue** at **www.HARTING.com**.

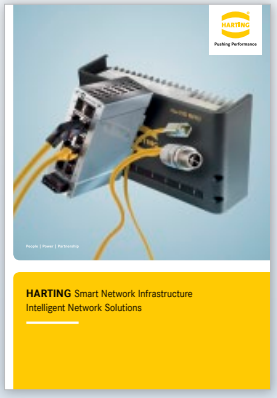


The **HARTING eCatalogue** is an electronic catalogue with a product configurator. Here you can choose a connector according to your requirements. Afterwards you are able to send your inquiry directly to a HARTING sales partner. The drawings to every single part are available in PDF format. The parts are downloadable in 2D format (DXF) and 3D format (IGES, STEP). The 3D models can be viewed with a VRML-viewer.

Product configurator



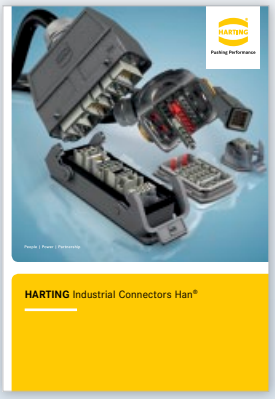
Smart Network Infrastructure



INTELLIGENT NETWORK SOLUTIONS

With its product series Ha-VIS, HARTING offers a consistent range of Ethernet network components and cabling products, which from the communication platform of convergent automation IT networks. Under Ha-VIS HARTING offers fully integrated RFID solutions.

Installation Technology



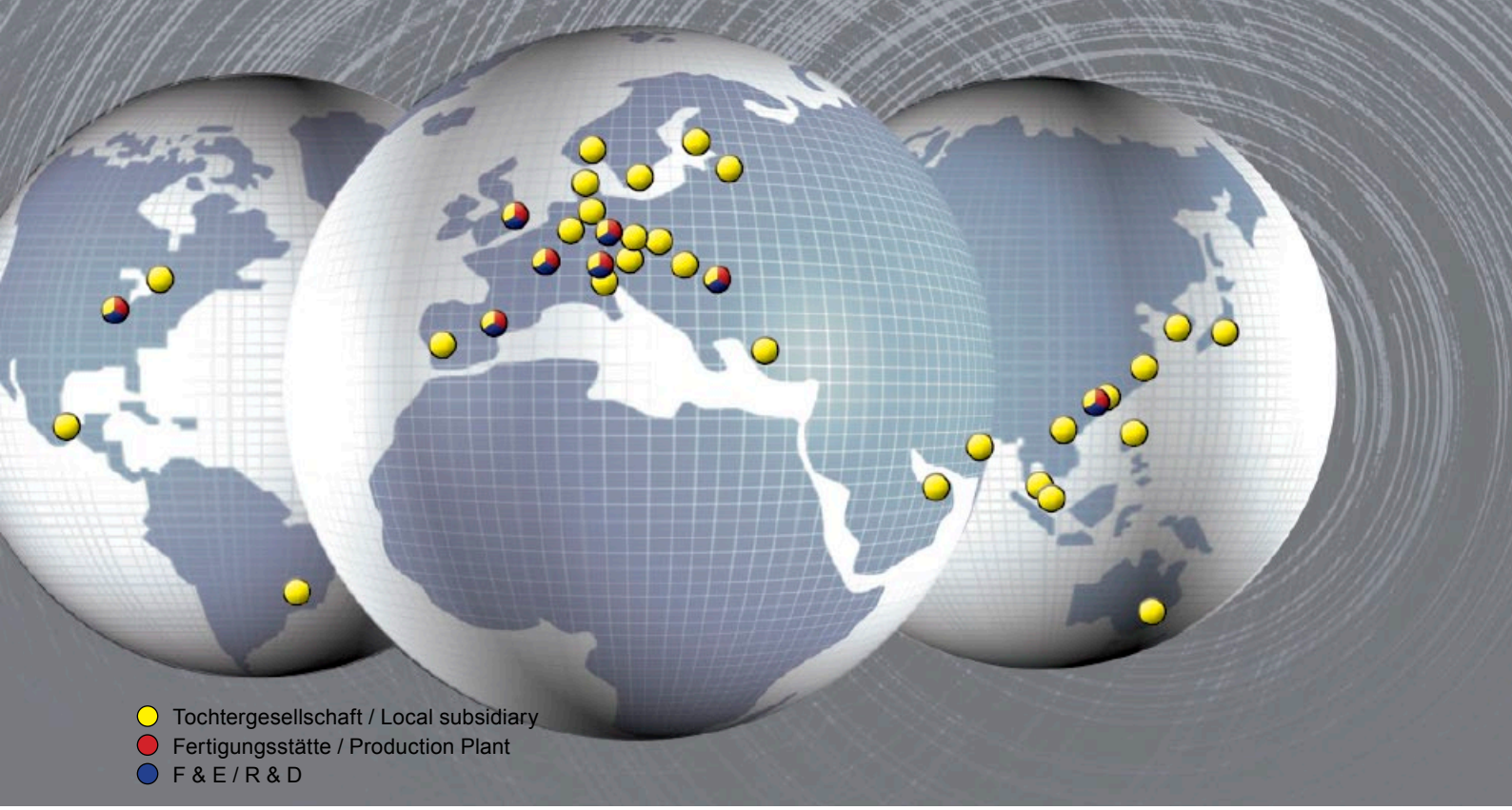
INDUSTRIAL CONNECTORS Han®

This catalogue documents the worldwide standard for industrial connectors. Han® connectors represent the preferential solution in the cable-to-cable interconnection of data, signal and power applications operating under the most demanding conditions and meeting stringent requirements with regard to safe and detachable electrical connections with high degree of protection IP 65 / IP 67. Installations making use of Han® connectors impress with their rugged design, convenient handling and modularity of data, signal and power connections. Han® connectors represent the worldwide standard in industry, railway technology, as well as in power generation and distribution.

Device Connectivity

DEVICE CONNECTIVITY

The Device Connectivity catalogue provides a universal, innovative product portfolio of PCB connections and of termination technology. The product range comprises board-to-board and cable-to-board connectors for industrial electronic devices with degree of protection IP 20 to IP 65 / IP 67. These HARTING solutions offer appropriate device connectivity for a wide range of devices, ranging from sensors to industrial computers and their respective data, signal and power interfaces.



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