HARTING®

Pushing Performance

Connectivity Solutions for Hazardous locations

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 36 subsidiary companies and worldwide distributors employing a total of approximately 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.

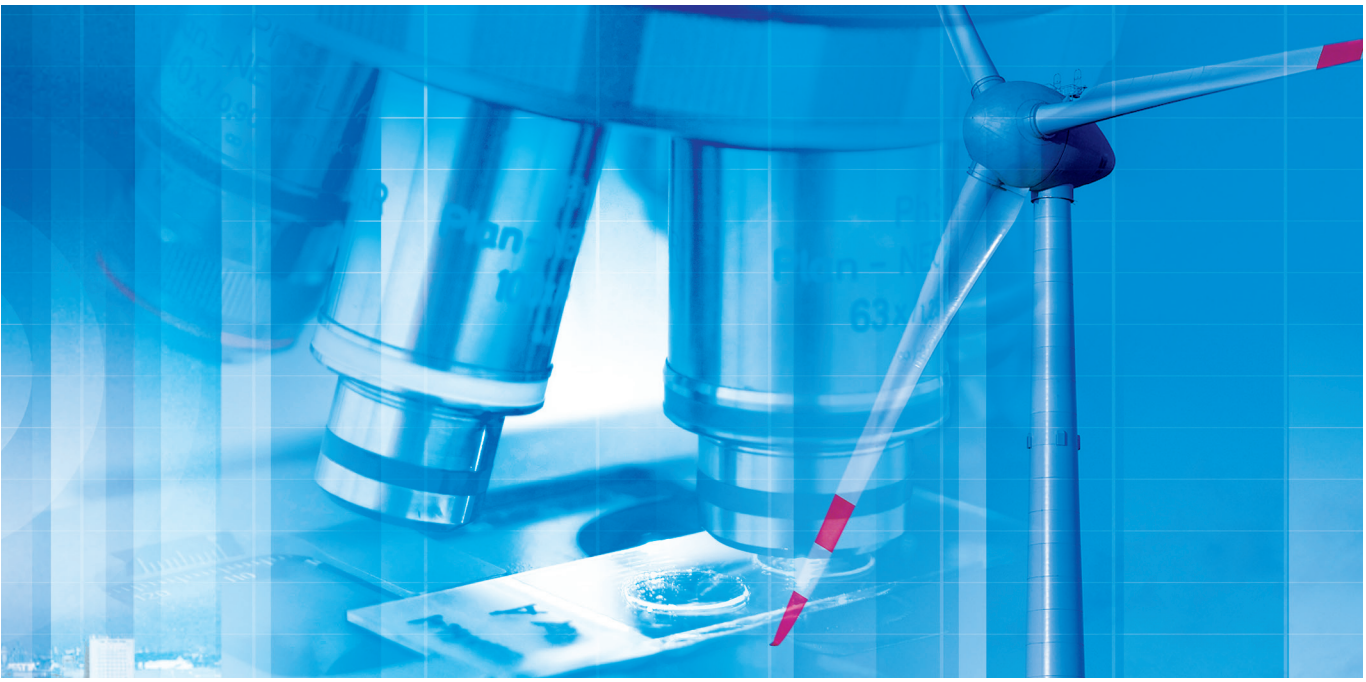
The HARTING brand stands for superior quality and reliability – worldwide. The standards we set are the result of consistent, stringent quality management that is subject to regular certifications and audits.

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.

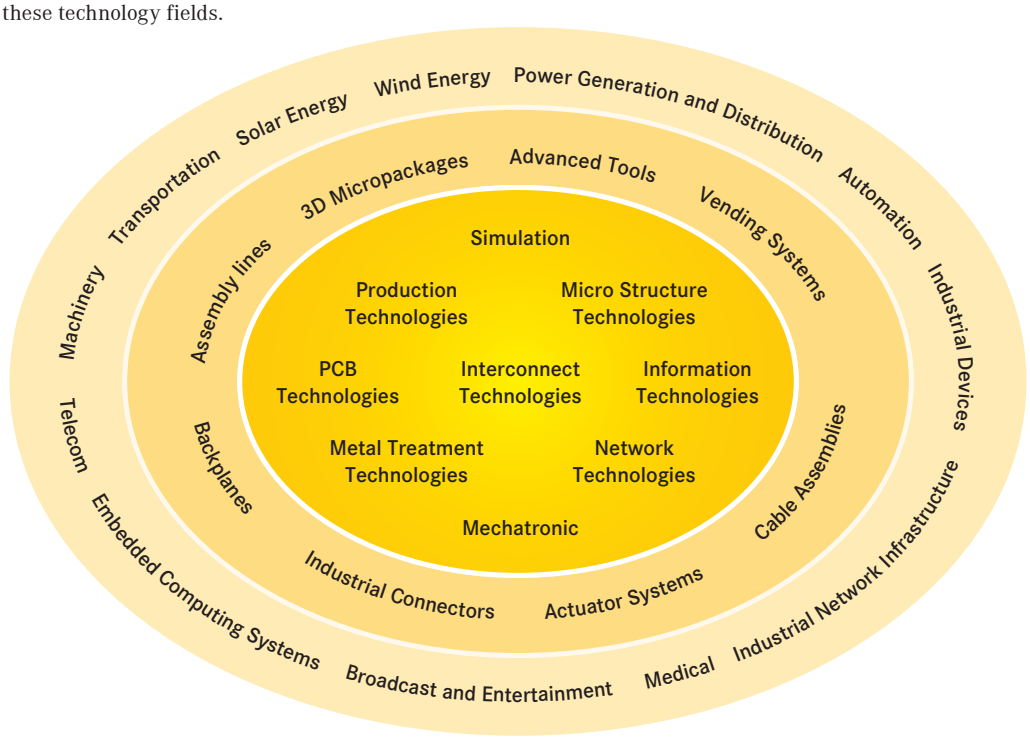
HARTING solutions extend across technology boundaries.
Drawing on the comprehensive resources of the group's technology pool, HARTING devises practical solutions for its customers. Whether this involves industrial networks for manufacturing automation, or hybrid interface solutions for wireless telecommunication 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.



These connectors are approved for Class I Division 2 Environments

Certain hazardous environments, including those found in oil & gas exploration, petrochemical plants, fuel storage sites, and pharmaceutical or food manufacturing, require explosion-proof or ATEX-rated connectors. There are many different classifications in this space, but typically the connectors in this space have focused on the Class I, Div. 2 or the IS space, with limited cost effective solutions for the Class I Div. 2 environment.

However, the connectivity options in the Class I, Div. 2 space have just increased. HARTING has been working with UL and ATEX to add the rectangular portfolio to the choice of connectors that a customer / OEM can use in an explosive environment. The Han® Ex , an extension of the Han® product line, meets all the preconditions for the implementation of high quality connectivity solutions in application areas with explosion protection requirements.

Han® Ex – product offering

The product portfolio for the Han® Ex offers complete connector systems able to supply up to 90V and 16 amps with various hood and housing sizes and pin counts from 3 up to 24. The housing's alloy was selected so that it can be used in pulverized methane-coal dust atmospheres. Furthermore, they offer an IP 65/67 protection class in the mated condition. The housing's blue color indicates that the connector is being used in a potentially hazardous location.

The Han® Ex product offerings come in various termination technologies, including the traditional crimp and screw varieties, along with the patented Han-Quick Lock® technology. This termination allows for time-saving and easy assembly without special tools. The reliable and vibration-proof connection provides maximum safety even in demanding applications.

Now that the choice of connectors has increased and the size and cost is significantly lower, it allows our customers to look at the benefits of connectorization vs hardwiring again!

Benefits of connectors compel many to switch from hardwiring

Many thousands of equipment manufacturers have switched from point-to-point (hard) wiring to connector-based solutions for their control systems. Adopting progressive connectivity solutions has improved their unit costs and productivity. It allows them to turn around orders and complete installations much faster. With margins under increasing pressure, many OEMs have come to regard these benefits as a must-have. For many of their customers, the principal argument for connector-based wiring over hardwiring – a lower total cost of ownership over the service life of the machine – is equally compelling.

Using connectors makes the wiring a pre-engineered job that can be designed, assembled and tested as a harness and then quickly integrated into a machine or system as it takes shape. Some time is invested in assembling the harness, but then installation only takes a fraction of the time hardwiring requires. The risk of wiring errors is virtually eliminated.

Hardwiring: The cost myth

Most OEMs that compare their use of hardwiring and connectors find connectors save them time and money, particularly when the full cost of making hardwired connections is recognized. Unlike connector-based wiring where most of the attributable costs are incurred once, up front, the costs associated with hardwiring are recurrent and often unpredictable because of the possibility of wiring errors. Experience shows that whatever a company's costs for hard-wiring in-house, there is about a 30% premium doing such connections in the field, for installations or for warranty service and repairs.

30%
SAVINGS

HARTING leads the way

HARTING has based its leadership position on developing new connector concepts and adapting existing ones to more precisely meet the evolving needs of its customer base. Choosing the right connector solution for the job will optimize the benefits of connectorization, improving the OEM's margins while giving end users the lowest possible cost of ownership and greater peace of mind.

Table of Contents

General Description: The connectors are designed to meet the intrinsic safety requirements for ignition protection class in explosive hazardous areas, Class I Div 2. The Han® Ex product portfolio offers complete connector systems consisting of housings and inserts, including housings made from an alloy that can be used in pulverized methane-coal dust atmospheres. They also offer ignition protection class IP 65/67 in the mated condition. The housing's blue color differentiates it from the standard Han® connector which is not suitable for use in explosive environments. The contact inserts provide a high number of pins and meet the standards of the ignition protection class even in the tightest spaces.

3A Family Kit

B Size Family Connectors

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B Size Family Connectors *Continued*

Accessories/Tools

Han® Ex 3A Sets

Connector Sets for explosion-proof environments

Features

- Connector sets especially for Class I, Division 2 explosive environments and intrinsically safe circuits.
- Suitable for Class I, Division 2 groups A, B, C, and D hazardous or unclassified locations, or intrinsically safe circuits.
- Hoods, housings and inserts in one set
- Inserts with compact design and a high number of connections
- Available with innovative Han-Quick Lock® termination technology

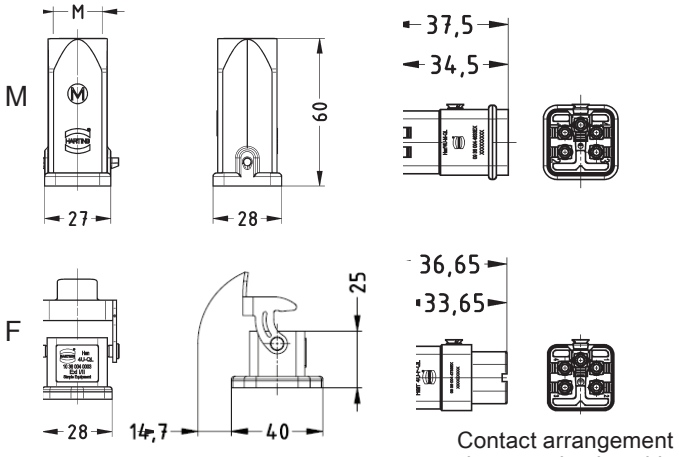
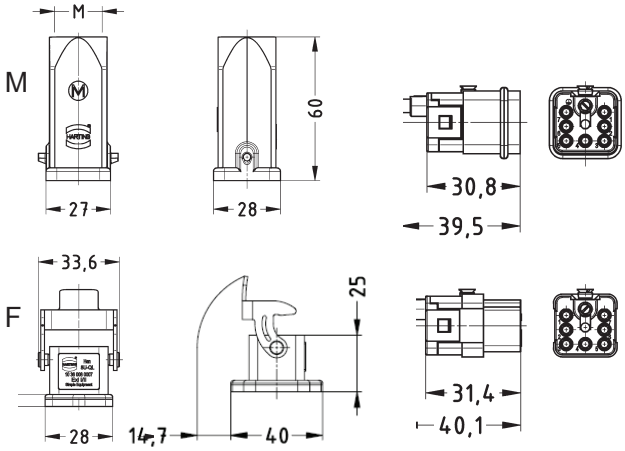
NOTICE **Industrial connectors of the Han® Ex series are designed only for the use in intrinsically safe circuits of categories “ia”, “ib’ and “ic” or Class I Division 2, Groups A, B, C or D hazardous locations.**

- The explosion group will be defined by the intrinsically safe or Class I Division 2 equipment
- Temperature class T6 according to DIN EN 60 079-11

Technical characteristics

Specifications	DIN EN 60 079-0 DIN EN 60 079-11
Hoods/ housings	
Material	Zinc die cast
Color	RAL 5015 (blue)
Surface	powder coated
Locking element	stainless steel
Lever type	metal lever
Seal	NBR
Limiting temperatures	-20 °C ... +40 °C
Protection degree acc. to DIN EN 60 529 in locked position	IP67 is achieved with seal screw and cable gland
Inserts	
Number of contacts	3, 4, 7, 8, 12
Rated current	10 A
Rated voltage	90 V
Pollution degree	3
Insulation resistance	≥ 1010 Ω
Material	Polycarbonat
Limiting temperatures	-20 °C ... +40 °C
Mechan. working life - mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface - hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp termination	0.5 ... 2.5 mm² AWG 20 ... 14
Han-Quick Lock® termination	0.5 ... 2.5 mm² AWG 20 ... 14
Max. insulation diameter	3.6 mm
Screw termination	0.75 ... 1.5 mm² AWG 18 ... 16

Han® Ex 3A Sets

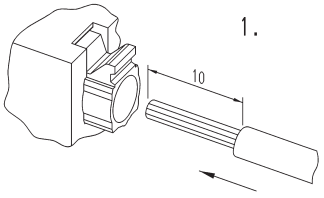
Identification	Part number	Size	Drawing	Dimensions in mm
Han® Ex 4A Quick Lock Set Han-Quick Lock®	10 36 104 0003	3 A		Contact arrangement view: termination side
Han® Ex 8D Quick Lock Set Han-Quick Lock®	10 36 108 0007	3 A		

Panel cut out: 22 x 22 mm

Panel cut out: 22 x 22 mm

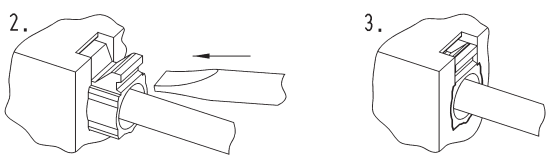
Assembly manual

Remove cable jacket and strip the fine stranded wires



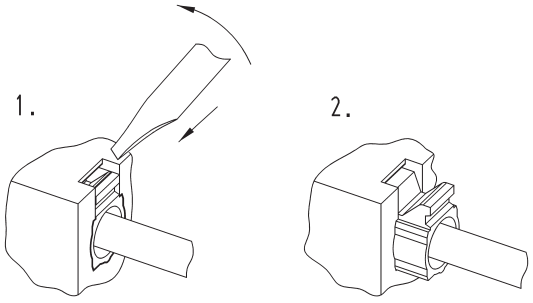
Do not twist the fine stranded wires!

Push fine stranded wires into the Han-Quick Lock® contact and push the blue slide with a screw driver[1] until it comes to a stop



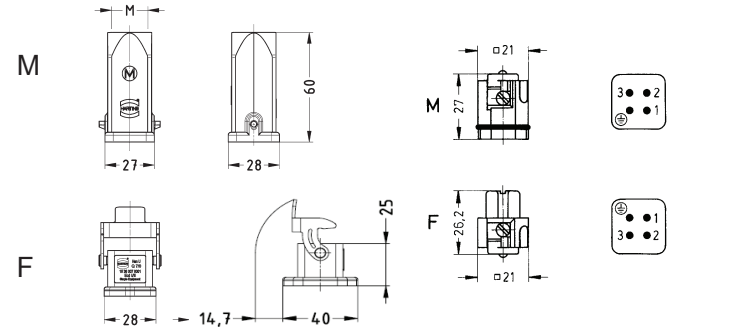
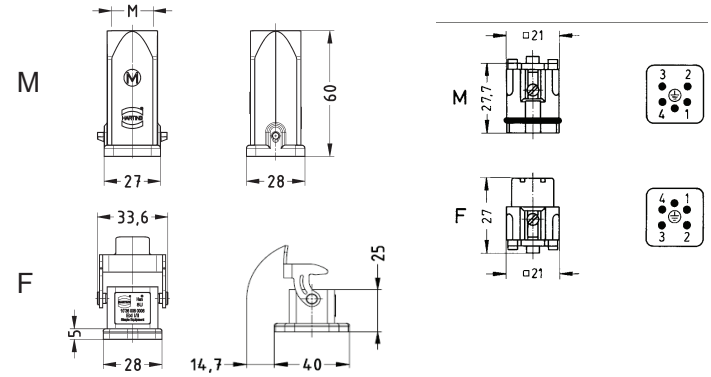
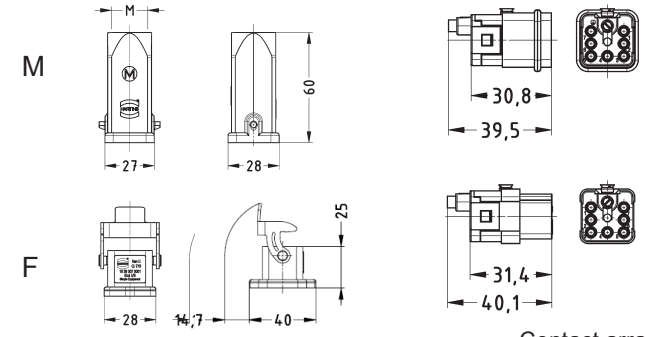
Removal manual

Please insert the screw driver[1] at an angle of 45° into the opening and lever the blue slide out

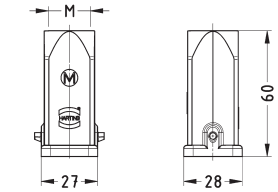
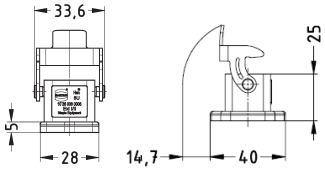
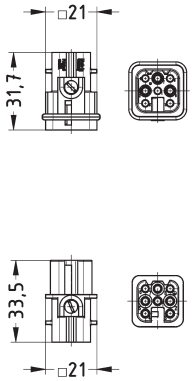
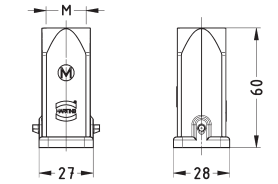
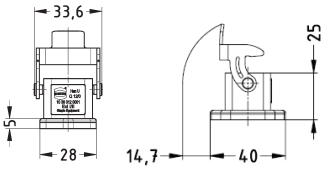
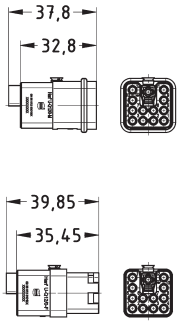


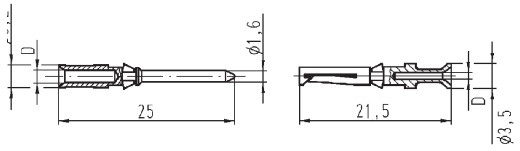
[1] Screw driver: 0.4 x 2.5 mm

Han® Ex 3A Sets

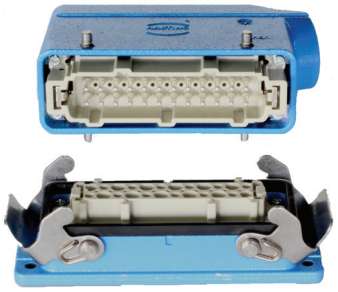
Identification	Part number	Size	Drawing	Dimensions in mm
Han® Ex 3A Set Screw Terminal 	10 36 103 0001	3 A	 Panel cut out: 22 x 22 mm	Contact arrangement view: termination side
Han® Ex 4A Set Screw Terminal 	10 36 104 0001	3 A	 Panel cut out: 22 x 22 mm	
Han® Ex Q7 Set Order crimp contacts separately 	10 36 107 0001	3 A	 Panel cut out: 22 x 22 mm	Contact arrangement view: termination side

Han® Ex 3A Sets

Identification	Part number	Size	Drawing	Dimensions in mm
Han® Ex 8D Set Order crimp contacts separately 	10 36 108 0006	3 A	M  F  Panel cut out: 22 x 22 mm	
Han® Ex Q12 Set Order crimp contacts separately 	10 36 112 0001	3 A	M  F  Panel cut out: 22 x 22 mm	

Identification	Wire gauge mm²	Partnumber Male contact	Partnumber Female contact	Drawing	Dimensions in mm
Crimp contact silver plated 	0.5 0.75 1.0 1.5 2.5	09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106	09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206		

Wire gauge		Ø mm	Stripping length
0.5 mm²	AWG 20	1.1	8 mm
0.75 mm²	AWG 18	1.3	8 mm
1.0 mm²	AWG 18	1.45	8 mm
1.5 mm²	AWG 16	1.75	8 mm
2.5 mm²	AWG 14	2.25	6 mm



Connectors for explosion hazardous environments

Features

- Hoods and housings in the sizes 6 B, 10 B, 16 B and 24 B
- Connectors especially for Class I, Division 2 explosive environments and intrinsically safe circuits.
- Suitable for Class I, Division 2 groups A, B, C, and D hazardous or unclassified locations, or intrinsically safe circuits.
- Inserts on the basis of Han® E with 6 to 24 contacts .
- Available in crimp and screw terminal termination types.

⚠ WARNING! **Industrial connectors of the Han® Ex series are designed only for the use in intrinsically safe circuits of categories “ia”, “ib’ and “ic” or Class I Division 2, Groups A, B, C or D hazardous locations.**

- The explosion group will be defined by the intrinsically safe or Class I Division 2 equipment
- Temperature class T6 according to DIN EN 60 079-11

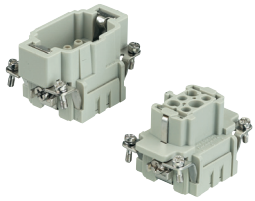
Technical characteristics

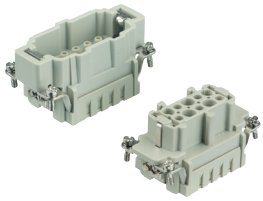
Specifications	DIN EN 60 079-0, -11, -14 DIN EN 60 664-1 DIN EN 61 984
Hoods/ housings	
Material	zinc die cast
Colour	RAL 5015 (blue)
Surface	powder coated
Locking element	stainless steel
Lever type	metal lever
Seal	NBR
Limiting temperatures	-20 °C ... +40 °C
Protection degree acc. to DIN EN 60 529 in locked position	IP65 is achieved with cable gland
Inserts	
Number of contacts	6, 10, 16, 24
Rated current	16 A
Rated voltage	90 V
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-20 °C ... +40 °C
Mechan. working life - mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface - hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp termination	0.5 ... 2.5 mm² AWG 20 ... 14
Max. insulation diameter	3.6 mm
Screw termination	0.75 ... 2.5 mm² AWG 18 ... 14

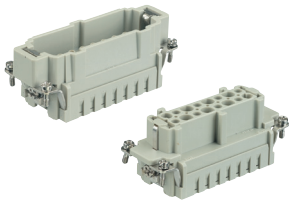
Number of contacts

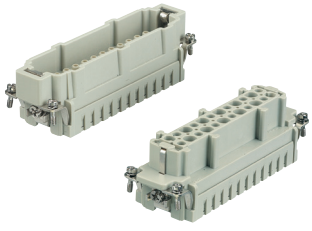
6, 10, 16, 24 + ⏚

Identification	Part number Male insert (M)	Part number Female insert (F)
Han® Ex crimp insert 6 B[2)]		
Screw terminal	09 36 506 2601	09 36 506 2701
Crimp terminal	09 36 506 2602	09 36 506 2702
Han® Ex crimp insert 10 B[2)]		
Screw terminal	09 36 510 2601	09 36 510 2701
Crimp terminal	09 36 510 2602	09 36 510 2702
Han® Ex crimp insert 16 B[2)]		
Screw terminal	09 36 516 2601	09 36 516 2701
Crimp terminal	09 36 516 2602	09 36 516 2702
Han® Ex crimp insert 24 B[2)]		
Screw terminal	09 36 524 2601	09 36 524 2701
Crimp terminal	09 36 524 2602	09 36 524 2702

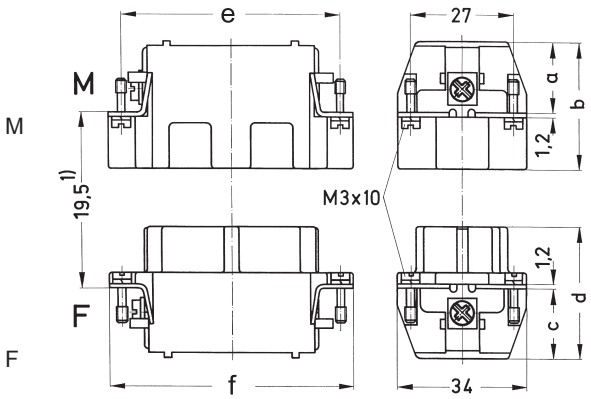








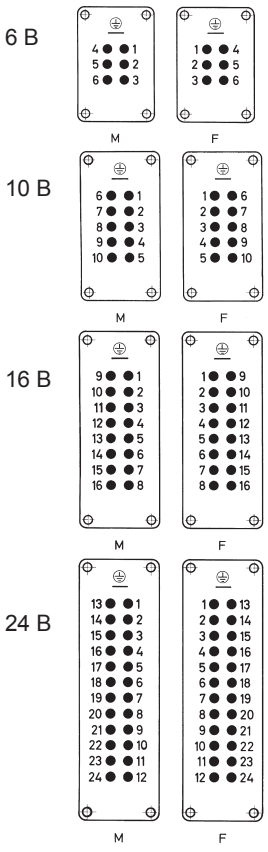
Drawing



[1)] Distance for contact max. 21 mm

Size	a	b	c	d	e	f
6 B	19	34	19	36	44	51
10 B	19	34	19	36	57	64
16 B	19	34	19	36	77.5	84.5
24 B	19	34	19	36	104	111

Contact arrangement view from termination side



[2)] Han® E crimp contacts can be ordered in the HARTING eCatalogue (www.HARTING.com)

Technical characteristics

Material (contact)	copper alloy

Specifications and approvals

IEC 60664-1
IEC 61984

Details

Crimping tools see chapter 90

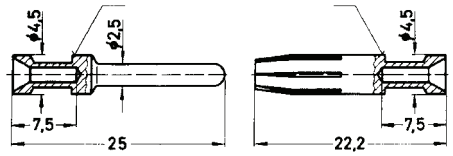
Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

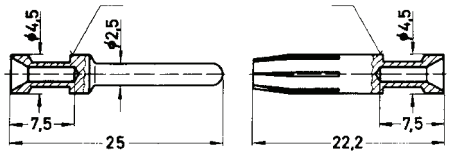
Coding pin

Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

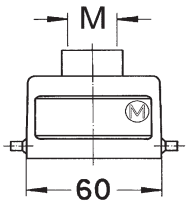
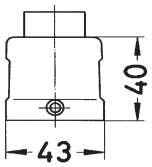
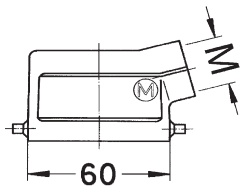
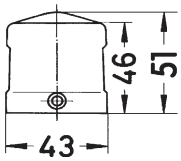
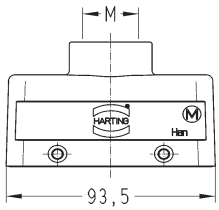
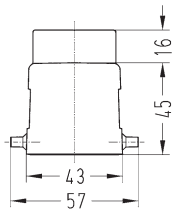
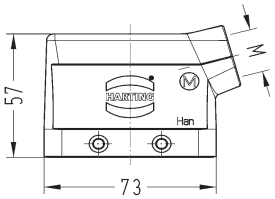
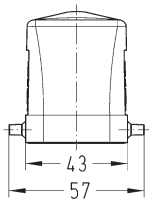
Identification	Wire cross section (mm²)	Part number male	Part number female	Drawing Dimensions in mm
Han E , Crimp contact, gold plated contacts, contact resistance ≤1 mOhm	0.5 0.75 1 1.5 2.5	09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123	09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223	
Han E , Crimp contact, silver plated contacts, contact resistance ≤1 mOhm	0.5 0.75 1 1.5 2.5	09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102	09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202	

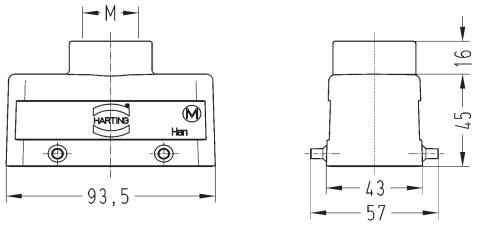
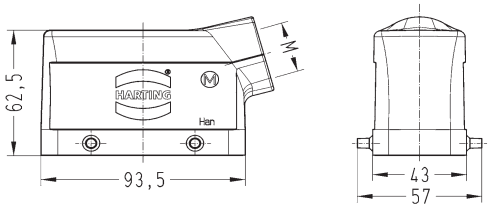
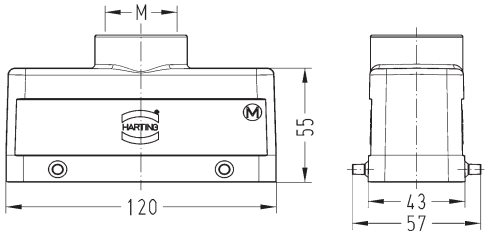
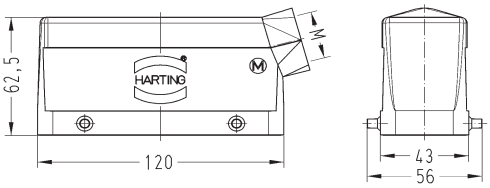


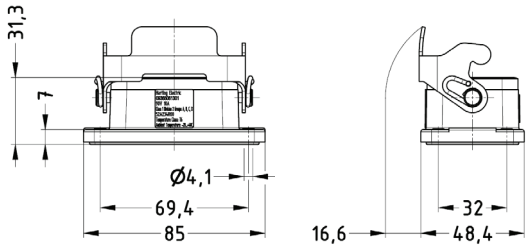
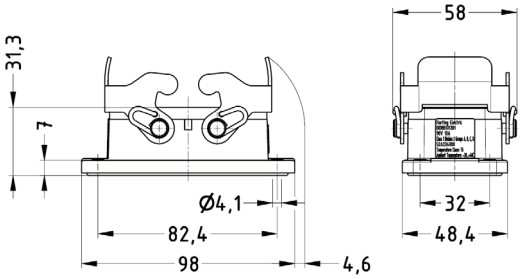
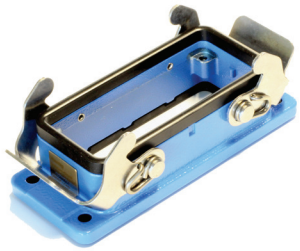
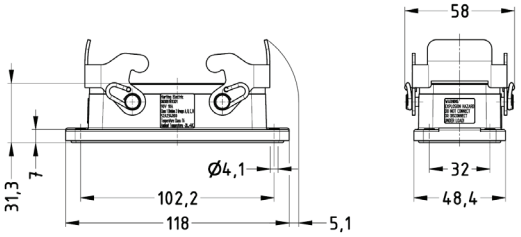
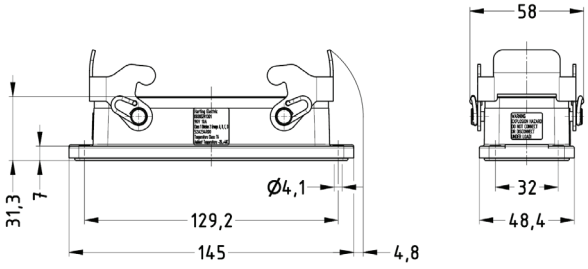
Identification	Wire gauge		Stripping length
no groove	0.5 mm²	AWG 20	7.5 mm
1 groove*	0.75 mm²	AWG 18	7.5 mm
1 groove	1 mm²	AWG 18	7.5 mm
2 grooves	1.5 mm²	AWG 16	7.5 mm
3 grooves	2.5 mm²	AWG 14	7.5 mm
* on the back crimp collar			



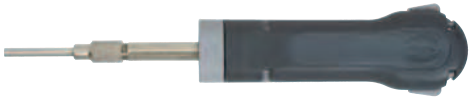
Identification	Wire gauge		Stripping length
no groove	0.5 mm²	AWG 20	7.5 mm
1 groove*	0.75 mm²	AWG 18	7.5 mm
1 groove	1 mm²	AWG 18	7.5 mm
2 grooves	1.5 mm²	AWG 16	7.5 mm
3 grooves	2.5 mm²	AWG 14	7.5 mm
* on the back crimp collar			

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Hood 6 B top entry 	19 36 506 1440 19 36 506 1441	M20 M25		
Hood 6 B side entry 	19 36 506 1540 19 36 506 1541	M20 M25		
Hood 10 B top entry 	19 36 510 1420 19 36 510 1421	M20 M25		
Hood 10 B side entry 	19 36 510 1520 19 36 510 1521	M20 M25		

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Hood 16 B top entry 	19 36 516 1421 19 36 516 1422	M25 M32		
Hood 16 B side entry 	19 36 516 1521 19 36 516 1522	M25 M32		
Hood 24 B top entry 	19 36 524 1421 19 36 524 1422	M25 M32		
Hood 24 B side entry 	19 36 524 1521 19 36 524 1522	M25 M32		

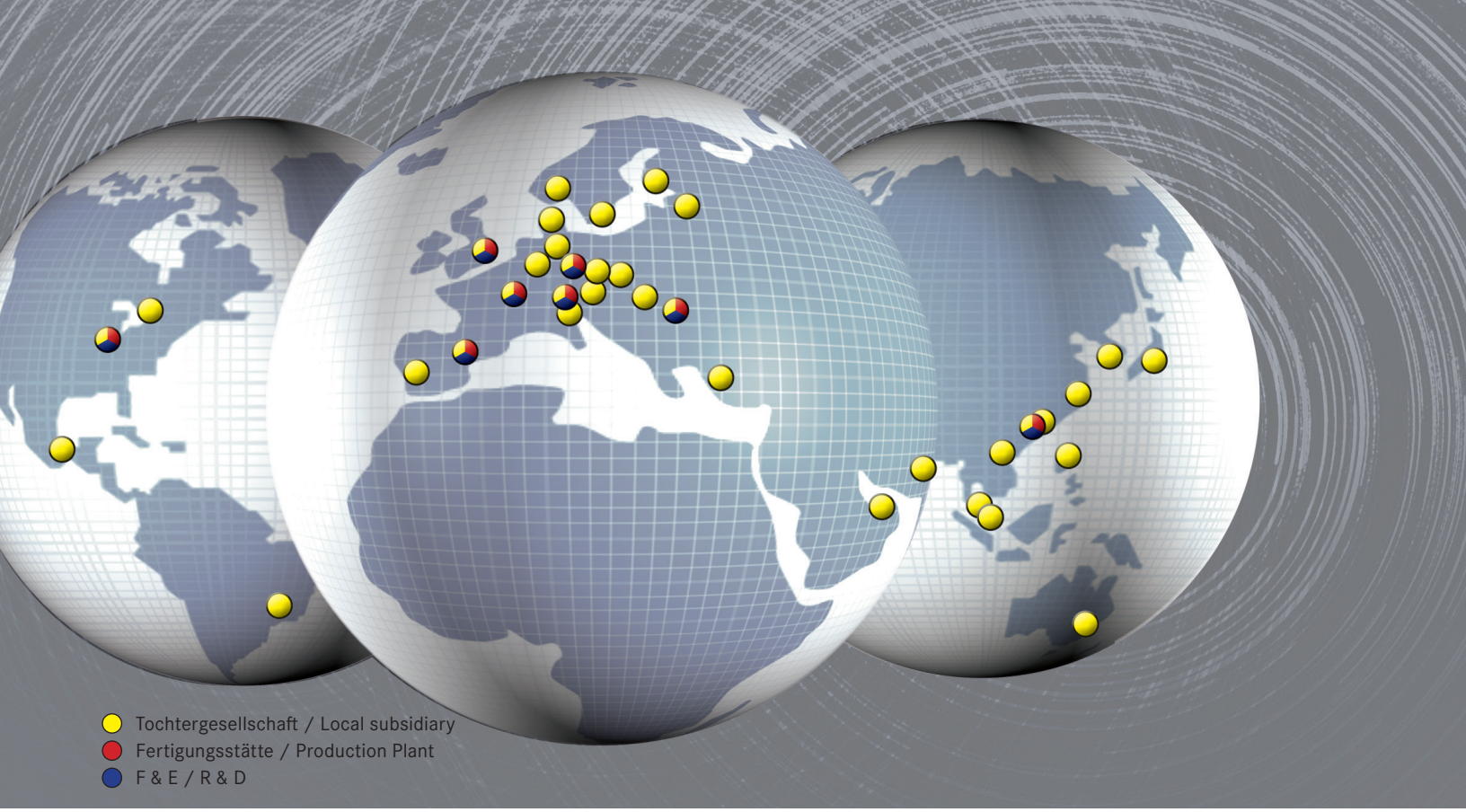
Identification	Part number	Drawing	Dimensions in mm
Housing, bulkhead mounting 6 B 	09 36 506 1301		
Housing, bulkhead mounting 10 B 	09 36 510 1301		
Housing, bulkhead mounting 16 B 	09 36 516 1301		
Housing, bulkhead mounting 24 B 	09 36 524 1301		

Accessories/Tools

Identification	Wire cross section (mm²)	Part number	
Crimping tool, Han D®: 0.14 ... 2.5 mm², Han E®: 0.14 ... 4 mm², Han-*Yellock*®: 0.14 ... 4 mm², Han® C: 1.5 ... 4 mm², The high end tool with best performance. Range of delivery: locator included, handling instruction For wire gauges from 0.14 und 0.25 mm² please use the contacts 09150006107, 6207, 6127 or 6227.	0.14–4	09 99 000 0888	
for optional testing		09 99 000 0889	
Han D®, Han E®, Han-*Yellock*®, Han® C, Locator for crimp tool, as spare part		09 99 000 0887	
Han D®, Removal tool, Insert tool from the mating side of the connector until it comes to a stop., By putting additional pressure on the tool the contact is unlocked and pushed out towards the termination side., When using the removal tool (…0052) the contact is unlocked by pushing the central plunger.		09 99 000 0012	
Han E®, Removal tool for crimp contacts, Insert the tool from the termination side until it comes to a stop., After that the contact with the attached wire can be pulled out of the isolator body.		09 99 000 0319	
Screw Driver Set Slimline, Insolated blade for slim assembly. Range of delivery: slim bit screw driver 0.6 x 3.5, slim bit screw driver 0.8 x 4.5, Phillips screw driver PH1 (191 x 30 mm), Phillips screw driver PH2 (218 x 36 mm)		09 99 000 0844	

Notes

Notes



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