



Pushing Performance



People | Power | Partnership

HARTING Han-INOX® Stainless Steel Hoods and Housings

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.

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.

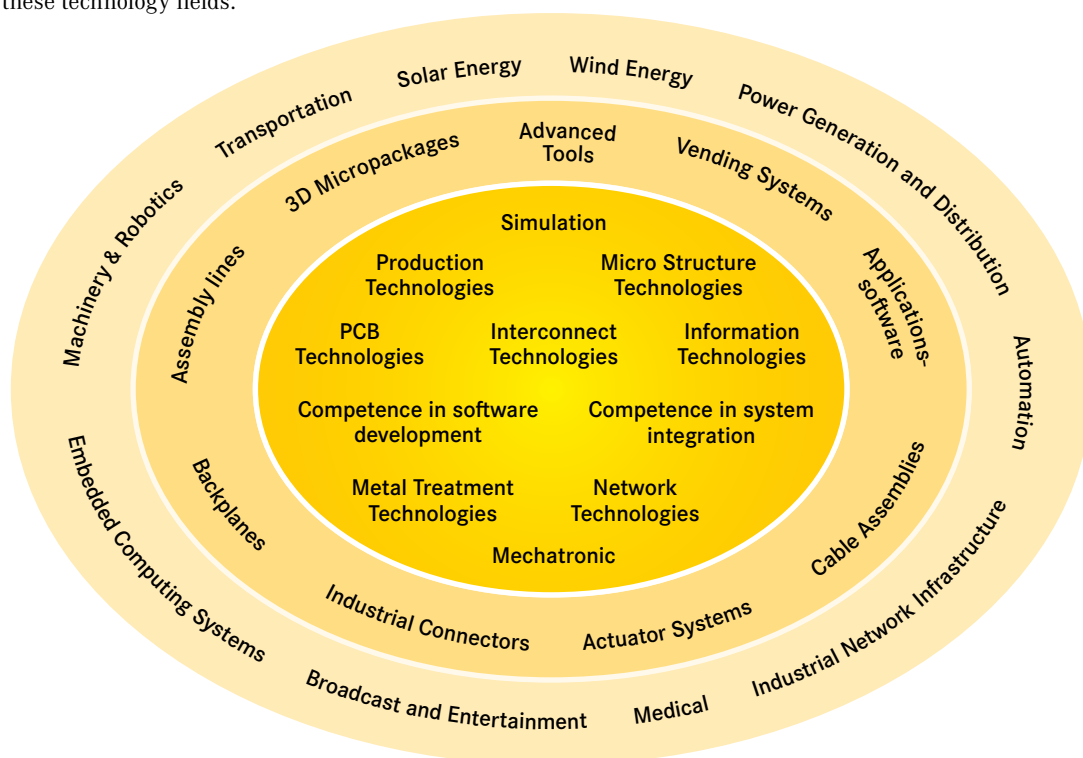
In order to ensure the future proof design of RF- and EMC-compatible interface solutions, the central HARTING laboratory (certified to EN 45001) provides simulation tools, as well as experimental, testing and diagnostics facilities all the way through to scanning electron microscopes. In the selection 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.



Introduction

Han-INOX®: The Next Step for the Industry

The HARTING Technology Group has established an important milestone for industrial connectors with its new Han-INOX® series.

These new hoods and housings are manufactured from stainless steel which makes them ideal for use in process technology and food processing applications. With Han-INOX®, you can implement IP 65/67 connections – suitable for either data transmissions or power supply in extremely harsh surroundings. This new line of hoods and housings can be safely used outdoors because they feature outstanding resistance to chemicals and other harsh environmental conditions. Currently the Han-INOX® series is available in sizes Han® 10 B and Han® 3 A.

When used in conjunction with our standard contact inserts, these Han-INOX® products cover the entire spectrum of industrial requirements for professional connectivity applications.

Han-INOX® provides you with a firm foundation for building connectivity and networking solutions to new application requirements.

HARTING. New pathways for your connections.

General Information

Fields 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.

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



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

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals

UL, CSA

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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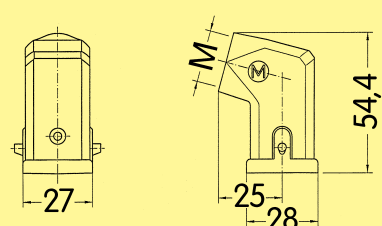

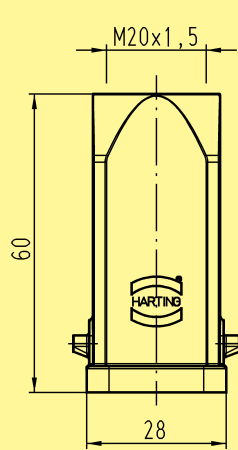

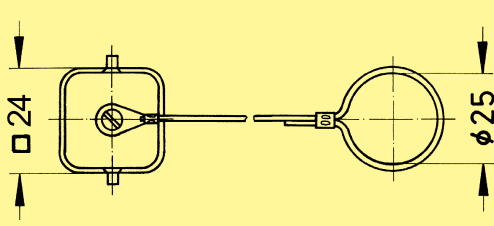
Stainless steel hoods and housings


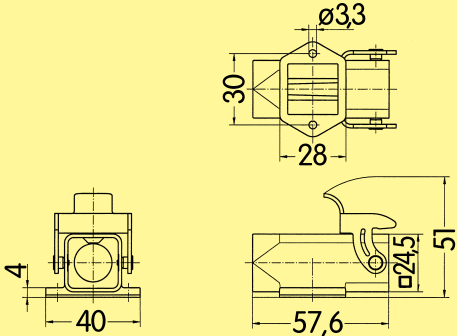

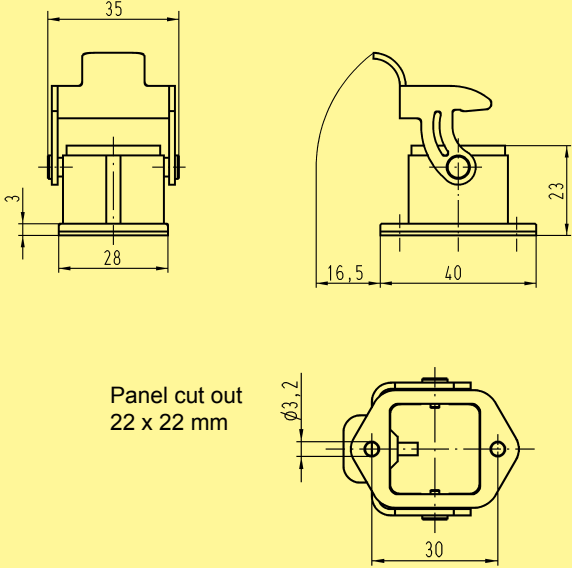

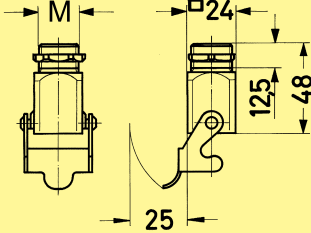
Features

- Hoods and housings as well as locking elements out of stainless steel
- Resistant against aggressive detergents
- Fields of application
 - Food and beverage industry
 - Water and sewage industry
 - Pharmaceutical industry
 - Chemical industry
 - Offshore and shipbuilding
- Suitable for all standard inserts that fit into size Han® 3 A


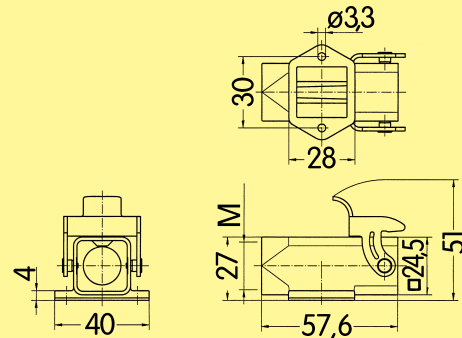

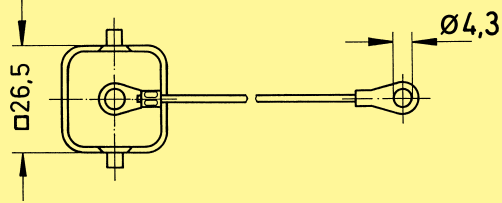

Technical characteristics

| | |
|--|---|
| Material | Stainless steel |
| Seal | NBR |
| Limiting temperatures | -40 °C ... +125 °C |
| Protection degree acc. to DIN EN 60 529 in locked position | IP 44 IP 65 / IP 67 with use of sealing screw 09 20 000 9918 |
| Locking lever | Stainless steel |

| Identification | Part-Number | M | Drawing | Dimensions in mm |
|--|--|------------------|--|------------------|
| <p>Hood side entry with glued seal*</p>  | <p>19 44 003 1640 19 44 003 1643</p> | <p>20 20</p> |  | |
| <p>Hood top entry with glued sealing*</p>  | <p>19 44 003 1440 19 44 003 1443</p> | <p>20 20</p> |  | |
| <p>Cover for hoods</p>  | <p>19 44 003 5421²⁾ 19 44 003 5422¹⁾</p> | <p>- -</p> |  | |

| Identification | Part-Number | M | Drawing | Dimensions in mm |
|---|----------------|----|---|------------------|
| <p>Bulkhead mounted housing</p>  | 19 44 003 0801 | — |  <p>Panel cut out 22 x 22 mm</p> | |
| <p>Bulkhead mounted housing with 1 metal locking lever</p>  | 19 44 003 0301 | — |  <p>Panel cut out 22 x 22 mm</p> | |
| <p>Housings, screw mounting top entry</p>  | 19 44 003 1150 | 20 |  | |

1) for mounted male insert, 2) for mounted female insert

| Identification | Part-Number | M | Drawing | Dimensions in mm |
|---|--|----------------|--|------------------|
| <p>Surface mounted housing side entry</p>  | <p>19 44 003 1250</p> | <p>20</p> |  | |
| <p>Cover for housings</p>  | <p>19 44 003 5425²⁾ 19 44 003 5426¹⁾</p> | <p>— —</p> |  | |
| <p>Cable gland stainless steel</p>  | <p>19 44 000 5082</p> | <p>20</p> | | |

Summary contact inserts Han® 3 A



| | | | | |
|--------------------|---|---|--|---|
| Series | Han® 3 A | Han® 3 A Quick Lock | Han® 3 A Quick Lock | Han® 4 A |
| Number of contacts | 3 + ⊕ | 3 + ⊕ | 3 + ⊕ | 4 + ⊕ |
| Termination | Screw terminal  | Quick Lock termination  | Quick Lock termination  | Screw terminal  |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 230 / 400 V | 230 / 400 V | 230 / 400 V | 230 / 400 V |
| Wire gauge | 1 ... 2.5 mm ² | 0.5 ... 2.5 mm ² | 0.25 ... 1.5 mm ² | 1 ... 2.5 mm ² |
| Male insert (M) | 09 20 003 2611 | 09 20 003 2633 | 09 20 003 2634 | 09 20 004 2611 |
| Female insert (F) | 09 20 003 2711 | 09 20 003 2733 | 09 20 003 2734 | 09 20 004 2711 |
| Series | Han® 4 A Quick Lock | Han® 4 A Quick Lock | Han® 8 D | Han® 8 D Quick Lock |
| Number of contacts | 4 + ⊕ | 4 + ⊕ | 8 | 8 |
| Termination | Quick Lock termination  | Quick Lock termination  | Crimp terminal  | Quick Lock termination  |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 230 / 400 V | 230 / 400 V | ~ 50 V / – 120 V | ~ 50 V / – 120 V |
| Wire gauge | 0.5 ... 2.5 mm ² | 0.25 ... 1.5 mm ² | 0.14 ... 2.5 mm ² | 0.25 ... 1.5 mm ² |
| Male insert (M) | 09 20 004 2633 | 09 20 004 2634 | 09 36 008 3001 | 09 36 008 2632 |
| Female insert (F) | 09 20 004 2733 | 09 20 004 2734 | 09 36 008 3101 | 09 36 008 2732 |
| Series | Han® Q 2/0 | Han® Q 2/0 | Han® Q 2/0 | Han® Q 2/0 |
| Number of contacts | 2 + ⊕ | 2 + ⊕ | 2 + ⊕ | 2 + ⊕ |
| Termination | Axial screw terminal  | Axial screw terminal  | Crimp terminal  | Axial screw terminal  |
| Rated current | 40 A | 40 A | 40 A | 40 A |
| Rated voltage | 400 V | 400 V | 400 V | 830 V |
| Wire gauge | 2.5 ... 6 mm ² | 4 ... 10 mm ² | 1.5 ... 10 mm ² | 2.5 ... 6 mm ² |
| Male insert (M) | 09 12 002 2653 | 09 12 002 2651 | 09 12 002 3051 | 09 12 002 2654 |
| Female insert (F) | 09 12 002 2753 | 09 12 002 2751 | 09 12 002 3151 | 09 12 002 2754 |
| Series | Han® Q 2/0 HV | Han® Q 2/0 HV | Han® Q 3/0 | Han® Q 4/0 |
| Number of contacts | 2 + ⊕ | 2 + ⊕ | 3 + ⊕ | 4 |
| Termination | Axial screw terminal  | Crimp terminal  | Crimp terminal  | Crimp terminal  |
| Rated current | 40 A | 40 A | 40 A | 40 A |
| Rated voltage | 830 V | 830 V | 400 V | 830 V |
| Wire gauge | 4 ... 10 mm ² | 1.5 ... 10 mm ² | 1.5 ... 10 mm ² | 1.5 ... 10 mm ² |
| Male insert (M) | 09 12 002 2652 | 09 12 002 3052 | 09 12 003 3051 | 09 12 004 3051 |
| Female insert (F) | 09 12 002 2752 | 09 12 002 3152 | 09 12 003 3151 | 09 12 004 3151 |

Further technical informations see catalogue "Industrial connectors Han®"




Summary contact inserts Han® 3 A









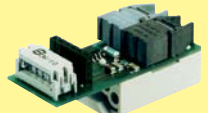

| | | | | |
|--------------------|--|--|---|--|
| Series | Han® Q 5/0 | Han® Q 5/0 Quick Lock | Han® Q 5/0 Quick Lock | Han® Q 7/0 |
| Number of contacts | 5 + ⊕ | 5 + ⊕ | 5 + ⊕ | 7 + ⊕ |
| Termination | Crimp terminal  | Quick Lock termination  | Quick Lock termination  | Crimp terminal  |
| Rated current | 16 A | 16 A | 16 A | 10 A |
| Rated voltage | 230 / 400 V | 230 / 400 V | 230 / 400 V | 400 V |
| Wire gauge | 0.14 ... 2.5 mm ² | 0.5 ... 2.5 mm ² | 0.25 ... 1.5 mm ² | 0.14 ... 2.5 mm ² |
| Male insert (M) | 09 12 005 3001 | 09 12 005 2633 | 09 12 005 2634 | 09 12 007 3001 |
| Female insert (F) | 09 12 005 3101 | 09 12 005 2733 | 09 12 005 2734 | 09 12 007 3101 |
| Series | Han® Q 12/0 | Han® Q 12/0 | Han® Q High Density | |
| Number of contacts | 12 + ⊕ | 12 + ⊕ | 21 | |
| Termination | Crimp terminal / Quick Lock termination  | Crimp terminal / Quick Lock termination  | Crimp terminal  | |
| Rated current | 10 A | 10 A | 6.5 A | |
| Rated voltage | 400 V | 400 V | ~ 50 V / – 120 V | |
| Wire gauge | 0.5 ... 2.5 mm ² | 0.25 ... 1.5 mm ² | 0.09 ... 0.56 mm ² | |
| Male insert (M) | 09 12 012 3001 | 09 12 012 3004 | 09 12 021 3001 | |
| Female insert (F) | 09 12 012 3101 | 09 12 012 3104 | 09 12 021 3101 | |
| Series | Staf® 6 | Staf® 6 | | |
| Number of contacts | 6 | 6 | | |
| Termination | Solder terminal  | Screw terminal  | | |
| Rated current | 10 A | 10 A | | |
| Rated voltage | ~ 25 V / – 60 V | ~ 25 V / – 60 V | | |
| Wire gauge | 2.5 mm ² | 1.5 mm ² | | |
| Male insert (M) | 09 70 006 2615 | 09 70 006 2616 | | |
| Female insert (F) | 09 70 006 2812 | 09 70 006 2813 | | |
| Series | Han-Brid® Cu | Han-Brid® Cu | Han-Brid® Cu | Han-Brid® Cu |
| Number of contacts | 4 / 2 | 4 / 2 | 4 / 2 | 4 / 2 |
| Termination | Crimp terminal / IDC Insulation displacement terminal  | Crimp terminal / Crimp terminal  | Cage-clamp terminal / Cage-clamp terminal  | Crimp terminal / Crimp terminal  |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 50 V | 50 V | 50 V | 50 V |
| Wire gauge | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² |
| Male insert (M) | 09 12 006 2611 | 09 12 006 3001 | 09 12 006 2695 | 09 12 006 2694 |
| Female insert (F) | 09 12 006 2701 | 09 12 006 3111 | 09 12 006 2795 | 09 12 006 2794 |

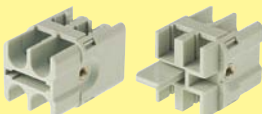
Summary contact inserts Han® 3 A



| Series | Han-Brid® USB | Han-Brid® FireWire | Han-Brid® Quintax 3 A | Han-Brid® RJ45 C |
|--------------------|---|---|---|--|
| Number of contacts | 2 / 4 | 2 / 6 | 2 | 2 / 4 |
| Termination | Crimp terminal / USB 2.0  | Crimp terminal / IEEE 1394  | Crimp terminal / Crimp terminal  | Crimp terminal / RJ45  |
| Rated current | 1 A | 1 A | 10 A | 10 A |
| Rated voltage | 50 V | 50 V | 50 V | 24 V |
| Wire gauge | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² |
| Male insert (M) | 09 12 001 2794 | 09 12 001 2774 | 09 15 003 3001 | 09 12 003 3011 |
| Female insert (F) | 09 12 001 3091 | 09 12 001 3071 | 09 15 003 3101 | |

| Series | Han-Brid® RJ45 C | Han-Brid® RJ45 C | Han-Brid® RJ45 C | Han-Brid® RJ45 C |
|--------------------|--|--|--|--|
| Number of contacts | 2 / 8 | 2 / 8 | 2 / 8 | 2 / 8 |
| Termination | Crimp terminal / RJ45  | Crimp terminal / RJ45  | Crimp terminal / RJ45  | Crimp terminal / RJ45  |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 24 V | 24 V | 24 V | 24 V |
| Wire gauge | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² |
| Male insert (M) | 09 12 003 3021 | 09 12 003 3031 | | |
| Female insert (F) | | | 09 12 003 2774 | 09 12 003 2776 |

| Series | Han-Brid® RJ45 C | Han-Brid® F.O. | Han-Brid® F.O. | Han-Brid® F.O. |
|--------------------|--|--|---|--|
| Number of contacts | 2 / 4 | 4 / 2 | 4 / 2 | 4 / 2 |
| Termination | Crimp terminal / RJ45  | Crimp terminal / F.O.  | Crimp terminal / F.O.  | Crimp terminal / F.O.  |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 24 V | 50 V | 50 V | 50 V |
| Wire gauge | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² | 0.14 ... 2.5 mm ² |
| Male insert (M) | | | 09 12 004 2611 | 09 12 004 2601 |
| Female insert (F) | 09 12 003 2770 | 09 12 004 2711 | | |

| Series | Han® 4 A SC | | | |
|--------------------|---|--|--|--|
| Number of contacts | 4 | | | |
| Termination | for F.O.  | | | |
| Rated current | | | | |
| Rated voltage | | | | |
| Wire gauge | | | | |
| Male insert (M) | 09 20 004 4701 | | | |
| Female insert (F) | 09 20 004 4711 | | | |

Further technical informations see catalogue "Industrial connectors Han®"


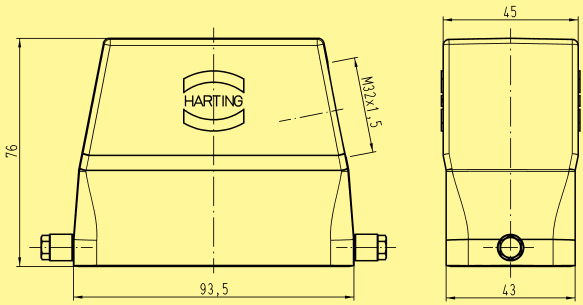

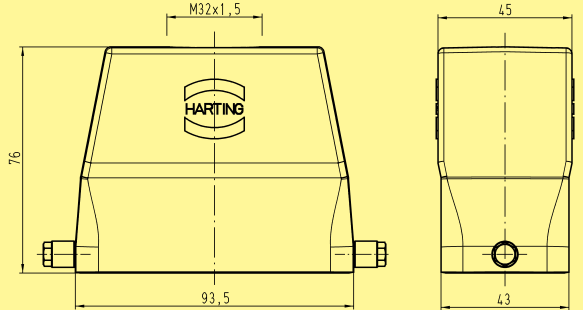

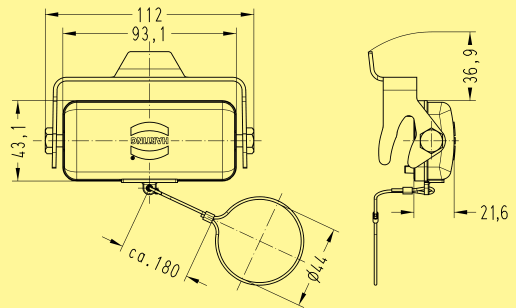



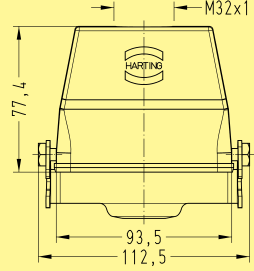
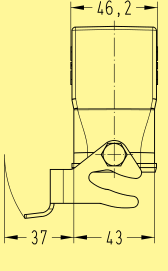

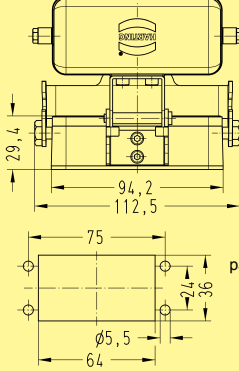
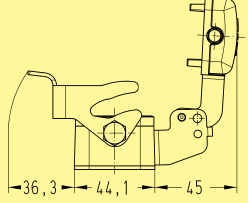

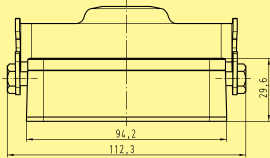
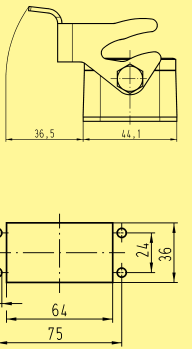


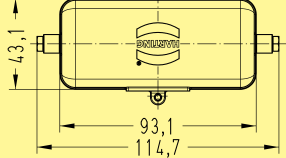
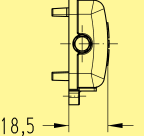
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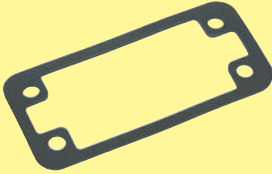
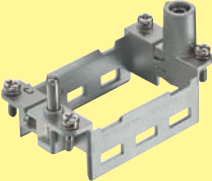
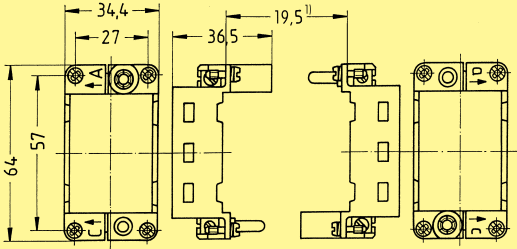
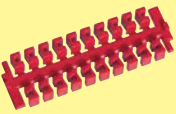
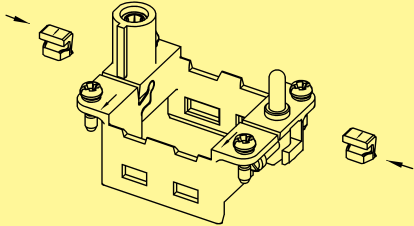
- Hoods and housings as well as locking elements out of stainless steel
- Resistant against aggressive detergents
- Fields of application
 - Food and beverage industry
 - Water and sewage industry
 - Pharmaceutical industry
 - Chemical industry
 - Offshore and shipbuilding

Technical Characteristics


| | |
|--|--------------------|
| Material | Stainless steel |
| Seal | NBR |
| Limiting temperatures | -40 °C ... +125 °C |
| Protection degree acc. to DIN EN 60 529 in locked position | IP 65 |
| Locking lever | Stainless steel |





| Identification | Part-Number | M | Drawing | Dimensions in mm |
|--|-----------------------|-----------|--|------------------|
| <p>Hood side entry</p>  | <p>19 44 310 0547</p> | <p>32</p> |  | |
| <p>Hood top entry</p>  | <p>19 44 310 0447</p> | <p>32</p> |  | |
| <p>Cover for hood</p>  | <p>19 44 310 5422</p> | |  | |





| Identification | Part-Number | M | Drawing | Dimensions in mm |
|--|-----------------------|-----------|--|---|
| <p>Cable to cable housing M 32</p>  | <p>19 44 310 0757</p> | <p>32</p> |  |  |
| <p>Bulkhead mounted housing with integrated cover</p>  | <p>19 44 310 0303</p> | |  |  |
| <p>Bulkhead mounted housing</p>  | <p>19 44 310 0305</p> | <p>—</p> |  |  |
| <p>Cable gland stainless steel</p>  | <p>19 44 000 5084</p> | <p>32</p> | | |
| <p>Cover for bulkhead mounted housing</p>  | <p>19 44 310 5421</p> | |  |  |





| Identification | Part-Number | M | Drawing | Dimensions in mm |
|--|--|--|--|------------------|
| <p>Gasket as spare part</p>  | <p>19 44 000 9902</p> | <p>—</p> | | |
| <p>Han-Modular® frames²⁾ size 10 B</p> <p>marking A ... C marking a ... c</p>  | <p>09 14 010 0303 09 14 010 0313</p> | <p>— —</p> |  | |
| Identification | Part-Number | Drawing | Dimensions in mm | |
| <p>Locking element for hinged frames (20 pieces per bloc)</p>  | <p>09 14 000 9960</p> |  | <p>Ideal to pre-assemble the hinged frames</p> | |





1) Distance max. 20.5 mm
2) Hinged frames can be used either in hood or housing
Both different markings must be used for one connector!





| Series | Han® 200 A Axial module | Han® 200 A Axial module | Han® 200 A PE Axial module | Han® 200 A PE Axial module |
|--------------------|---|---|--|---|
| Number of contacts | 1 | 1 | 1 | 1 |
| Termination | Axial screw terminal  | Axial screw terminal  | Axial screw terminal  | Axial screw terminal  |
| Rated current | 200 A | 200 A | 200 A | 200 A |
| Rated voltage | 1000 V | 1000 V | 1000 V | 1000 V |
| Wire gauge | 25 ... 40 mm ² | 40 ... 70 mm ² | 25 ... 40 mm ² | 40 ... 70 mm ² |
| Male insert (M) | 09 14 001 2663 | 09 14 001 2662 | 09 14 001 2668 | 09 14 001 2667 |
| Female insert (F) | 09 14 001 2763 | 09 14 001 2762 | 09 14 001 2768 | 09 14 001 2767 |




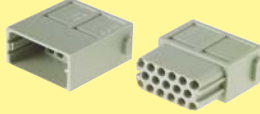
| Series | Han® 200 A Crimp module | Han® 100 A Axial module | Han® 100 A Axial module | Han® 100 A Axial module |
|--------------------|---|---|--|---|
| Number of contacts | 1 | 2 | 2 | 2 |
| Termination | Crimp terminal  | Axial screw terminal  | Axial screw terminal  | Axial screw terminal  |
| Rated current | 200 A | 100 A | 100 A | 100 A |
| Rated voltage | 1000 V | 1000 V | 1000 V | 1000 V |
| Wire gauge | 25 ... 70 mm ² | 10 ... 25 mm ² | 16 ... 35 mm ² | 38 mm ² |
| Male insert (M) | 09 14 001 3001 | 09 14 002 2653 | 09 14 002 2651 | 09 14 002 2650 |
| Female insert (F) | 09 14 001 3101 | 09 14 002 2753 | 09 14 002 2751 | 09 14 002 2750 |



| Series | Han® 100 A Crimp module | Han® 100 A Single module | Han® 70 A Axial module | Han® 70 A Axial module |
|--------------------|---|--|--|---|
| Number of contacts | 2 | 2 | 2 | 2 |
| Termination | Crimp terminal  | Axial screw terminal + Crimp terminal  | Axial screw terminal  | Axial screw terminal  |
| Rated current | 100 A | 100 A | 70 A | 70 A |
| Rated voltage | 1000 V | 830 V | 1000 V | 1000 V |
| Wire gauge | 10 ... 35 mm ² | 10 ... 35 mm ² | 6 ... 16 mm ² | 14 ... 22 mm ² |
| Male insert (M) | 09 14 002 3501 | 09 14 001 3031 | 09 14 002 2646 | 09 14 002 2647 |
| Female insert (F) | 09 14 002 3151 | 09 14 001 3131 | 09 14 002 2741 | 09 14 002 2742 |




| Series | Han® 70 A Axial module | Han® 70 A Axial module | Han® 70 A Crimp module | Han® 70 A Hybrid module |
|--------------------|--|--|--|---|
| Number of contacts | 2 | 2 | 2 | 1 / 4 |
| Termination | Axial screw terminal with finger protected male contacts  | Axial screw terminal with finger protected male contacts  | Crimp terminal  | Axial screw terminal  |
| Rated current | 70 A | 70 A | 70 A | 1 x 70 A / 4 x 16 A |
| Rated voltage | 1000 V | 1000 V | 1000 V | 1000 V / 400 V |
| Wire gauge | 6 ... 16 mm ² | 14 ... 22 mm ² | 10 ... 25 mm ² | 6 ... 16 mm ² / 0.14 ... 4 mm ² |
| Male insert (M) | 09 14 002 2641 | 09 14 002 2642 | 09 14 002 3041 | 09 14 005 2646 |
| Female insert (F) | 09 14 002 2741 | 09 14 002 2742 | 09 14 002 3141 | 09 14 005 2741 |

| | | | | |
|--------------------|---|--|--|---|
| Series | Han® 70 A Hybrid module | Han® 40 A Axial module | Han® 40 A Axial module | Han® 40 A Crimp module |
| Number of contacts | 1 / 4 | 2 | 2 | 2 |
| Termination | Axial screw terminal  | Axial screw terminal  | Axial screw terminal  | Crimp terminal  |
| Rated current | 1 x 70 A / 4 x 16 A | 40 A | 40 A | 40 A |
| Rated voltage | 1000 V / 400 V | 1000 V | 1000 V | 1000 V |
| Wire gauge | 14 ... 22 mm ² / 0.14 ... 4 mm ² | 2.5 ... 8 mm ² | 6 ... 10 mm ² | 1.5 ... 10 mm ² |
| Male insert (M) | 09 14 005 2647 | 09 14 002 2601 | 09 14 002 2602 | 09 14 002 3002 |
| Female insert (F) | 09 14 005 2742 | 09 14 002 2701 | 09 14 002 2702 | 09 14 002 3102 |
| Series | Han® C Axial module | Han® C Axial module | Han® C module | Han® CC Protected module |
| Number of contacts | 3 | 3 | 3 | 4 |
| Termination | Axial screw terminal  | Axial screw terminal  | Crimp terminal  | Crimp terminal  |
| Rated current | 40 A | 40 A | 40 A | 40 A |
| Rated voltage | 690 V | 690 V | 690 V | 830 V |
| Wire gauge | 2.5 ... 8 mm ² | 6 ... 10 mm ² | 1.5 ... 10 mm ² | 1.5 ... 6 mm ² |
| Male insert (M) | 09 14 003 2601 | 09 14 003 2602 | 09 14 003 3001 | 09 14 004 3041 |
| Female insert (F) | 09 14 003 2701 | 09 14 003 2702 | 09 14 003 3101 | 09 14 004 3141 |
| Series | Han® CD module | Han E® module | Han® E Quick Lock module | Han® EE module |
| Number of contacts | 3 / 4 | 6 | 6 | 8 |
| Termination | Crimp terminal  | Crimp terminal  | Quick Lock termination  | Crimp terminal  |
| Rated current | 40 A / 10 A | 16 A | 16 A | 16 A |
| Rated voltage | 830 V / 830 V | 500 V | 500 V | 400 V |
| Wire gauge | 1.5 ... 6 mm ² / 0.14 ... 2.5 mm ² | 0.14 ... 4 mm ² | 0.5 ... 2.5 mm ² | 0.14 ... 4 mm ² |
| Male insert (M) | 09 14 007 3001 | 09 14 006 3001 | 09 14 006 2633 | 09 14 008 3001 |
| Female insert (F) | 09 14 007 3101 | 09 14 006 3101 | 09 14 006 2733 | 09 14 008 3101 |
| Series | Han® EE Quick Lock module | Han® EE Quick Lock module | Han E® Protected module | Han® EEE module |
| Number of contacts | 8 | 8 | 6 | 20 |
| Termination | Quick Lock termination blauer Betätiger  | Quick Lock termination schwarzer Betätiger  | Crimp terminal  | Crimp terminal  |
| Rated current | 16 A | 16 A | 16 A | 16 A |
| Rated voltage | 400 V | 400 V | 830 V | 500 V |
| Wire gauge | 0.5 ... 2.5 mm ² | 0.25 ... 1.5 mm ² | 0.14 ... 4 mm ² | 0.14 ... 4 mm ² |
| Male insert (M) | 09 14 008 2633 | 09 14 008 2634 | 09 14 006 3041 | 09 14 020 3001 |
| Female insert (F) | 09 14 008 2733 | 09 14 008 2734 | 09 14 006 3141 | 09 14 020 3101 |

| Series | Han® ES module | Han® HV Single module | Han® HV module | Han® HV module |
|--------------------|--|---|--|---|
| Number of contacts | 5 | 2 | 2 | 2 |
| Termination | Cage-clamp terminal  | Crimp terminal  | Crimp terminal  | Crimp terminal  |
| Rated current | 16 A | 16 A | 16 A | 40 A |
| Rated voltage | 400 V | 2500 V | 2900 / 5000 V | 2900 / 5000 V |
| Wire gauge | 0.14 ... 2.5 mm ² | 0.5 ... 4 mm ² | 0.5 ... 4 mm ² | 1.5 ... 10 mm ² |
| Male insert (M) | 09 14 005 2616 | 09 14 002 3025 | 09 14 002 3021 | 09 14 002 3023 |
| Female insert (F) | 09 14 005 2716 | 09 14 002 3125 | 09 14 002 3121 | 09 14 002 3123 |

| Series | Han DD® module | Han DD® Quick Lock module | Han DD® Quick Lock module | Han® DDD module |
|--------------------|---|---|--|---|
| Number of contacts | 12 | 12 | 12 | 17 |
| Termination | Crimp terminal  | Quick Lock termination with silver plated contacts  | Quick Lock termination with gold plated contacts  | Crimp terminal  |
| Rated current | 10 A | 10 A | 10 A | 10 A |
| Rated voltage | 250 V | 250 V | 250 V | 160 V |
| Wire gauge | 0.14 ... 2.5 mm ² | 0.25 ... 1.5 mm ² | 0.25 ... 1.5 mm ² | 0.14 ... 2.5 mm ² |
| Male insert (M) | 09 14 012 3001 | 09 14 012 2632 | 09 14 012 2634 | 09 14 017 3001 |
| Female insert (F) | 09 14 012 3101 | 09 14 012 2732 | 09 14 012 2734 | 09 14 017 3101 |

| Series | Han® High Density module | Han® D-Sub module | | |
|--------------------|---|---|--|--|
| Number of contacts | 25 | 9 | | |
| Termination | Crimp terminal  | Crimp terminal  | | |
| Rated current | 4 A | 5 A | | |
| Rated voltage | 50 V | 50 V | | |
| Wire gauge | 0.08 ... 0.52 mm ² | 0.08 ... 0.52 mm ² | | |
| Male insert (M) | 09 14 025 3001 | 09 14 009 3001 | | |
| Female insert (F) | 09 14 025 3101 | 09 14 009 3101 | | |

| Series | Han® USB module | Han® FireWire module | Han® RJ45 module | |
|--------------------|---|--|---|--|
| Number of contacts | 4 | 6 | 8 | |
| Modules | USB 2.0 Plug terminal  | IEEE 1394  | Ethernet Cat. 6  | |
| Male insert (M) | 09 14 001 4601 | 09 14 001 4611 | 09 14 001 4623 | |
| Female insert (F) | 09 14 001 4701 | 09 14 001 4711 | 09 14 001 4721 | |

| Series | Han® GigaBit module | | Han® MegaBit module | | Han® MegaBit module | | Han® Shielded module | |
|--------------------|---------------------------------------|---------------------|--|-----------------|---|-----------------|--------------------------------------|--|
| Number of contacts | 8 | | 2 x 4 | | 2 x 4 | | 20 | |
| Modules | Ethernet Cat. 6A | | Ethernet Cat. 5e | | Ethernet Cat. 5e with additional shield connection | | Crimp terminal | |
| | | | | | | | | |
| Male insert (M) | 09 14 008 3011 | | 09 14 008 3016 | | 09 14 008 3017 | | 09 14 020 3013 | |
| Female insert (F) | 09 14 008 3111 | | 09 14 008 3116 | | 09 14 008 3117 | | 09 14 020 3113 | |
| Series | Han-Quintax® module | | | | | | | |
| Number of contacts | 2 | | | | | | | |
| Modules | | | | | | | | |
| Male insert (M) | 09 14 002 3001 | | | | | | | |
| Female insert (F) | 09 14 002 3101 | | | | | | | |
| Contacts | Han-Quintax® contact 4 + shielding | | High Density Quintax contact 8 + shielding | | Han D® Coax contact 1 + shielding | | Han E® Coax contact 1 + shielding | |
| | | | | | | | | |
| | | | | | 75 Ω | | 50 Ω | |
| Male contact | 09 15 004 3013 | | 09 15 008 3013 | | 09 15 001 3013 | | 09 15 001 3023 | |
| Female contact | 09 15 004 3113 | | 09 15 008 3113 | | 09 15 001 3113 | | 09 15 001 3123 | |
| Series | Han® Multi module | | | | | | | |
| Number of contacts | 4 | | | | 4 | | | |
| Modules | acc. to DIN 41626 | | | | acc. to D-Sub | | | |
| | | | | | | | | |
| Male insert (M) | 09 14 004 4501 | | | | 09 14 004 4501 | | | |
| Female insert (F) | 09 14 004 4512 | | | | 09 14 004 4513 | | | |
| Contacts | F.O. contact | F.O. contact | F.O. contact | Coaxial contact | Coaxial contact | Coaxial contact | | |
| | | | | | | | | |
| | Multimode F.O. | HCS®* / PCF F.O. | 1 mm POF | 50 Ω RG 174 | 75 Ω RG 179 | 50 Ω RG 58 | | |
| Male contact | 20 10 230 4211 | 20 10 125 4212 | 20 10 001 4211 | 09 14 000 6211 | 09 14 000 6221 | 09 14 000 6215 | | |
| Female contact | 20 10 230 4221 | 20 10 125 4222 | 20 10 001 4221 | 09 14 000 6111 | 09 14 000 6121 | 09 14 000 6115 | | |

| | | | | | |
|--------------------|-------------------|------------------|----------------|-----------------|-----------------|
| Series | Han® Multi module | | | | |
| Number of contacts | 12 | | | | |
| Modules | | | | | |
| Male insert (M) | 09 14 012 4501 | | | | |
| Female insert (F) | 09 14 012 4512 | | | | |
| Contacts | F.O. contact | F.O. contact | F.O. contact | Coaxial contact | Coaxial contact |
| | | | | | |
| | Multimode F.O. | HCS®* / PCF F.O. | 1 mm POF | 50 Ω RG 174 | 75 Ω RG 179 |
| Male contact | 20 10 230 4211 | 20 10 125 4212 | 20 10 001 4211 | 09 14 000 6211 | 09 14 000 6221 |
| Female contact | 20 10 230 4221 | 20 10 125 4222 | 20 10 001 4221 | 09 14 000 6111 | 09 14 000 6121 |

| | | | | |
|--------------------|-----------------------|----------------|------------------|----------------|
| Series | Han® Pneumatic module | | | |
| Number of contacts | 2 | | 3 | |
| Modules | | | | |
| Male insert (M) | 09 14 002 4501 | | 09 14 003 4501 | |
| Female insert (F) | 09 14 002 4501 | | 09 14 003 4501 | |
| Contacts | without shut off | with shut off | without shut off | with shut off |
| | | | | |
| | Ø 6.0 mm | Ø 6.0 mm | Ø 1.6 mm | Ø 1.6 mm |
| Male contact | 09 14 000 6174 | | 09 14 000 6151 | |
| Female contact | 09 14 000 6274 | 09 14 000 6276 | 09 14 000 6251 | 09 14 000 6256 |

| | | | | |
|--------------------|-----------------------|----------------|------------------|----------------|
| Series | Han® Pneumatic module | | | |
| Number of contacts | 3 | | | |
| Modules | | | | |
| Male insert (M) | 09 14 003 4501 | | | |
| Female insert (F) | 09 14 003 4501 | | | |
| Contacts | without shut off | with shut off | without shut off | with shut off |
| | | | | |
| | Ø 3.0 mm | Ø 3.0 mm | Ø 4.0 mm | Ø 4.0 mm |
| Male contact | 09 14 000 6152 | | 09 14 000 6153 | |
| Female contact | 09 14 000 6252 | 09 14 000 6253 | 09 14 000 6257 | 09 14 000 6258 |

| | | | | |
|--------------------|--|-----------------------------------|---|--------------------------------------|
| Series | Han® SC module | | | |
| Number of contacts | 4 | | | |
| Modules | | | | |
| Male insert (M) | 09 14 004 4701 | | | |
| Female insert (F) | 09 14 004 4711 | | | |
| Contacts | SC contact | | | |
| | | | | |
| | for GI fibre 50/125 µm or 62.5/125 µm ceramic ferrule | for SI fibre (HCS®) 200/230 µm | with quick assembly technique for 1 mm POF | with crimp technique for 1 mm POF |
| Male contact | 20 10 125 5211 | 20 10 230 5211 | 20 10 001 5217 | 20 10 001 5211 |

| | | | | | |
|-------------------|---------------------------------|---------------------------------|------------------------------|-----------------------------|-------------------------------------|
| Series | Han-Elisa® | | | | |
| Modules | Temperature module Pt100 | Temperature module Pt100 | Output module current | Output module voltage | Electronic identification module |
| | | | | | |
| | Measuring range 0 ... 100 °C | Measuring range 0 ... 200 °C | Output signal 4 ... 20 mA | Output signal 0 ... 10 V | |
| Male insert (M) | 20 75 108 1101 | 20 75 108 1103 | | | 20 70 001 1001 |
| Female insert (F) | | | 20 75 104 2201 | 20 75 105 2201 | |

| | | | | |
|---------|----------------|--|--|--|
| Series | Dummy module | | | |
| Modules | | | | |
| | 09 14 000 9950 | | | |

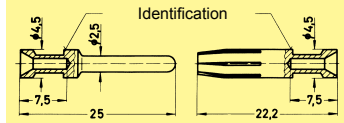
Crimp Contacts

Han E® contacts (16 A)

for Han E®, Han® EE,
Han® Q, Han-Modular®,
Han-Com®, Han-Brid®,
Han Hv E®

| Part-Number | | Identifica- tion | Wire gauge | |
|----------------|----------------|---------------------|-----------------|-----|
| Male contact | Female contact | | mm ² | AWG |
| 09 33 000 6121 | 09 33 000 6220 | no groove | 0.5 | 20 |
| 09 33 000 6114 | 09 33 000 6214 | 1 groove* | 0.75 | 18 |
| 09 33 000 6105 | 09 33 000 6205 | 1 groove | 1 | 18 |
| 09 33 000 6104 | 09 33 000 6204 | 2 grooves | 1.5 | 16 |
| 09 33 000 6102 | 09 33 000 6202 | 3 grooves | 2.5 | 14 |
| 09 33 000 6107 | 09 33 000 6207 | no groove | 4 | 12 |

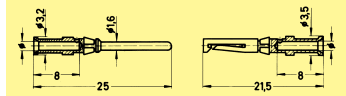
* on the back crimp collar



Han D® contacts (10 A)

for Han D®, Han DD®,
Han-Modular®, Han-Com®

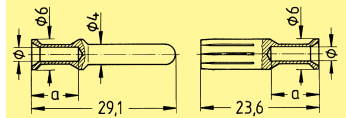
| Part-Number | | Ø mm | Wire gauge | |
|----------------|----------------|---------|-----------------|---------|
| Male contact | Female contact | | mm ² | AWG |
| 09 15 000 6104 | 09 15 000 6204 | 0.8 | 0.14-0.37 | 26 - 22 |
| 09 15 000 6103 | 09 15 000 6203 | 1.1 | 0.5 | 20 |
| 09 15 000 6105 | 09 15 000 6205 | 1.3 | 0.75 | 18 |
| 09 15 000 6102 | 09 15 000 6202 | 1.45 | 1 | 18 |
| 09 15 000 6101 | 09 15 000 6201 | 1.75 | 1.5 | 16 |
| 09 15 000 6106 | 09 15 000 6206 | 2.25 | 2.5 | 14 |



Han® C contacts (40 A)

for Han-Modular®

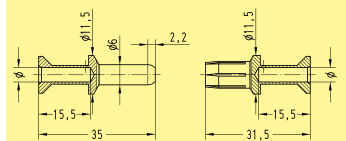
| Part-Number | | Ø mm | Wire gauge | |
|----------------|----------------|---------|-----------------|-----|
| Male contact | Female contact | | mm ² | AWG |
| 09 32 000 6104 | 09 32 000 6204 | 1.75 | 1.5 | 16 |
| 09 32 000 6105 | 09 32 000 6205 | 2.25 | 2.5 | 14 |
| 09 32 000 6107 | 09 32 000 6207 | 2.85 | 4 | 12 |
| 09 32 000 6108 | 09 32 000 6208 | 3.5 | 6 | 10 |



Crimp contacts (70 A)

for Han-Modular®

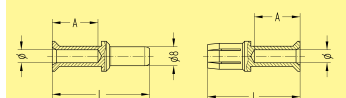
| Part-Number | | Ø mm | Wire gauge | |
|----------------|----------------|---------|-----------------|-----|
| Male contact | Female contact | | mm ² | AWG |
| 09 11 000 6131 | 09 11 000 6231 | 10 | 4.3 | |
| 09 11 000 6132 | 09 11 000 6232 | 16 | 5.5 | |
| 09 11 000 6133 | 09 11 000 6233 | 25 | 7.0 | |

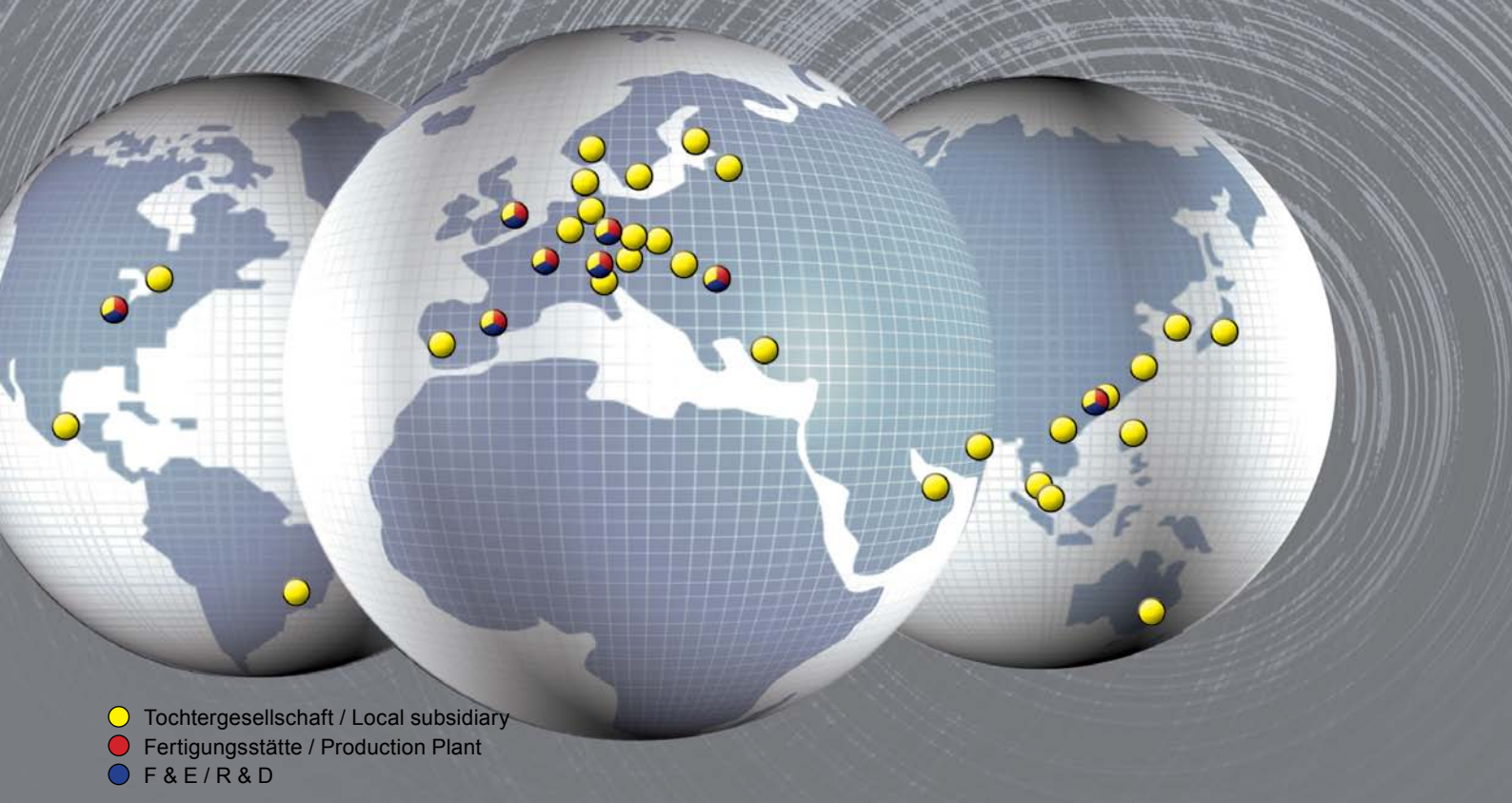


Crimp contacts (100 A)

for Han-Modular®

| Part-Number | | Ø mm | Wire gauge | |
|----------------|----------------|---------|-----------------|-----|
| Male contact | Female contact | | mm ² | AWG |
| 09 11 000 6114 | 09 11 000 6214 | 10 | 4,3 | |
| 09 11 000 6116 | 09 11 000 6216 | 16 | 5,5 | |
| 09 11 000 6125 | 09 11 000 6225 | 25 | 7,0 | |
| 09 11 000 6135 | 09 11 000 6235 | 35 | 8,2 | |





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