



Pushing Performance

HARTING Han-Yellock®



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 electromagnetic components for the automobile industry and offers solutions in the field of Enclosures and Shop Systems.

The HARTING Group currently comprises 32 subsidiary companies and worldwide distributors employing a total of approximately 3,000 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.

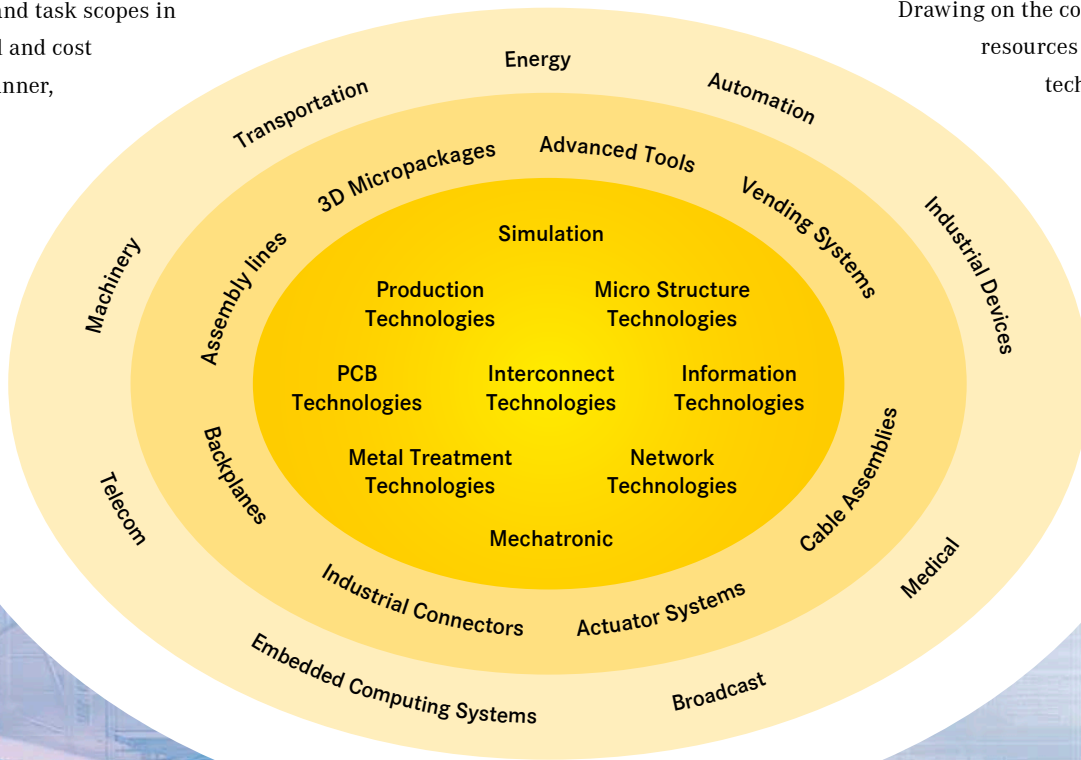
In order to develop connectivity and network solutions serving an exceptionally wide range of connector applications and task scopes in a professional and cost optimized manner, HARTING not only

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



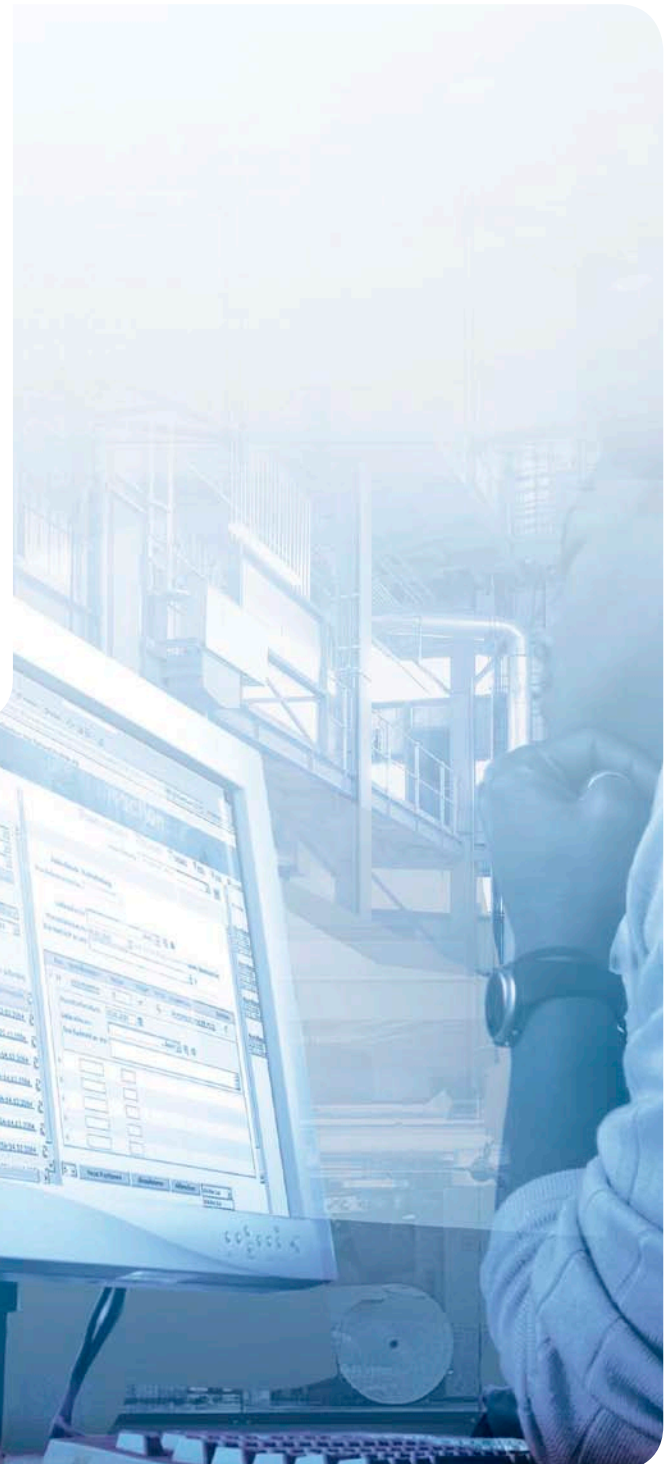
practical solutions for its customers. Whether this involves industrial networks for manufacturing automation, or hybrid interface solutions for wireless telecommunication infrastructures, 3D circuit carriers with microstructures, or cable assemblies for high-temperature applications in the automotive 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-Yellock® system

The Han-Yellock® - a special Han® connector

Han-Yellock® is a new product series which retains the core functionality but differs significantly from current size and shape formats. The approach of this series makes many new functions possible, for example:

- ❑ An internal, latched locking mechanism on the hood
- ❑ Multiplies the potentials in the connector with Han-Yellock® modules
- ❑ Usage of Han-Modular® modules with adapter frames
- ❑ Insulators can snap into the front or back walls of the housing
- ❑ Protected Earth contact (PE) in crimp or Quick Lock termination

These new technical features encourage sustained and effective improvements:

When purchasing products –

- ❑ Less article numbers and less inventory,

When planning for the electrical and mechanical layout –

- ❑ Less wiring work within a machine,

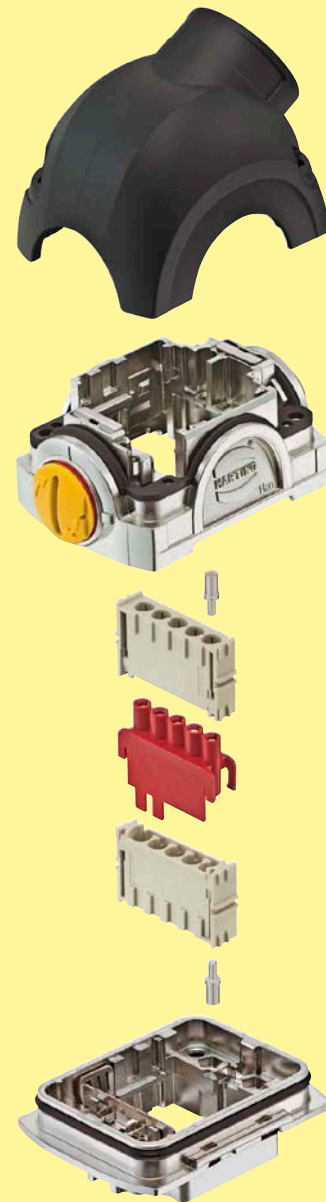
During the work flow –

- ❑ Less steps in the work flow and quicker assembly,

And during the after-sales stage –

- ❑ Reduced down times because of the latched locking mechanism and maintenance-friendly design

Thus, the Han-Yellock® offers improved functionality in the form of increased variability, multiplied potential, simplified handling, reduced incidence of errors and maximized safety.



Assembly details

Design overview

The Han-Yellock® interface consists of a housing, bulkhead mounting, on the housing side and a carrier hood with cover on the cable side.

Han-Yellock® offers the following features when assembling components:

- ❑ Han-Yellock® modules require only male crimp contacts.
- ❑ The PE is contacted on the housing; it can be connected with crimp and/or Quick Lock contacts.
- ❑ The Han-Yellock® hoods/housing are not plug-compatible with all other Han® hood/housing series.

The Han-Yellock® system can be used with a variety of insulators and contact inserts in order to establish an interface.

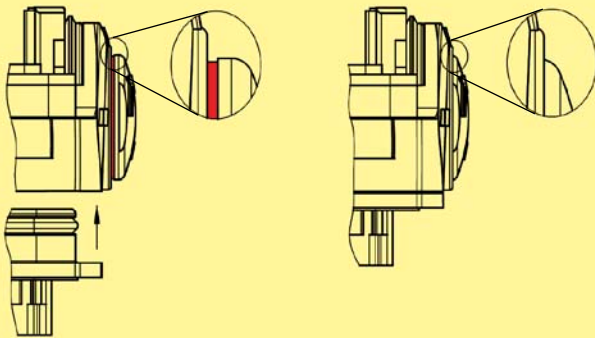
The Locking

The locking ability is a key function of the Han-Yellock®. The function makes connections and disconnections safe, simple and quick – even under harsh industrial conditions.

Main advantages include:

- ❑ Easy handling
- ❑ Resistance to vibrations and shock
- ❑ Protected against accidental opening
- ❑ Compact, space-saving design

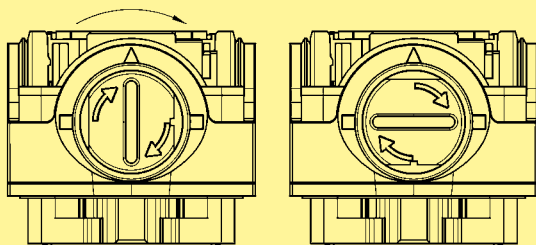
Han-Yellock® features a patented internal locking mechanism. The locking takes place as the cable and device sides are simply joined together. A red ring around the perimeter of the push button will be visible if the housing halves do not snap together properly. This ring disappears as soon as the internally protected stainless steel springs snap into place.



unlocked

locked

This press-button locking also features an integrated blocking function. The locking mechanism can be locked by rotating the button 90°. It is then no longer possible to open the connector.



„open“

„blocked“

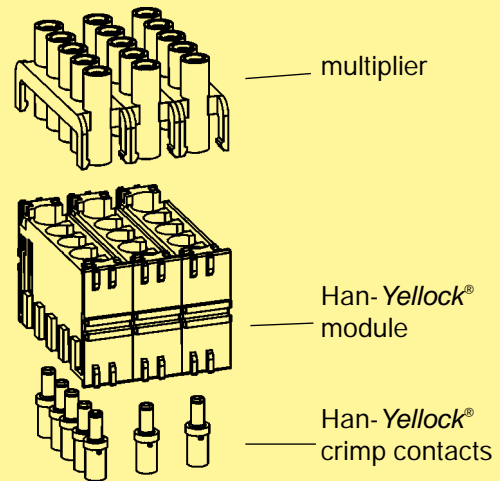
The press button can be set back to its visually open position only after the button is turned back 90°. It is then possible to release the two housing halves by pressing the snap-in button.

This feature provides an elegant mechanism for preventing an accidental opening of the connector – and no additional components are needed for it.

Han-Yellock® modules

This new product series enables an improved approach and strategy for electrical planning and procurement.

For assembling the Han-Yellock® connector only male crimp contacts are needed. The conduct between the two male contacts is made by multipliers.



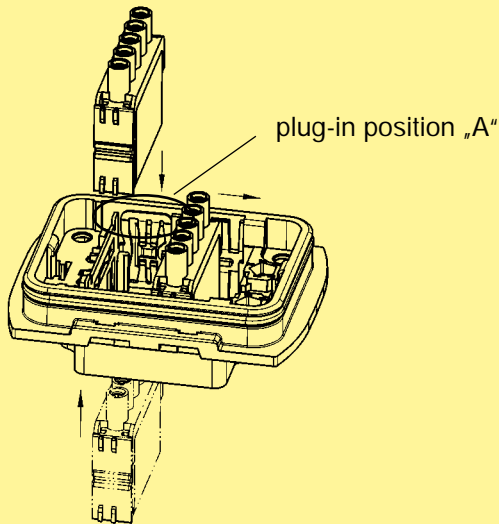
This concept allows a 1:1 wire to wire arrangement and in addition the use of bridges. Two to five contacts can be arranged.

It does not matter if the bridge attachment is inserted on the cable side or the housing side of the connector.

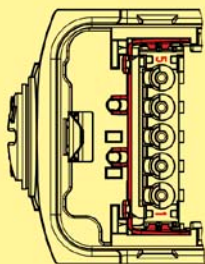
In the past, terminals blocks have been responsible for the function of multiplying potentials. But now this function has been integrated into the connector for a quick, compact and easy-to-service solution.

Inserting the module into the hoods/housing

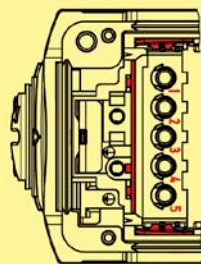
- ❑ The Han-Yellock® module should only be inserted into the „A“ plug-in position in the metal clamp.



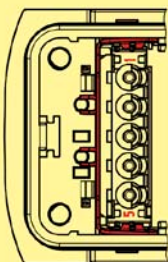
- ❑ The illustration shows the orientation of the module (see arrangement of contacts 1 ... 5).



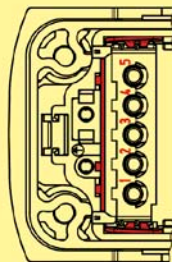
Carrier hood, mating side



Carrier hood, connection side



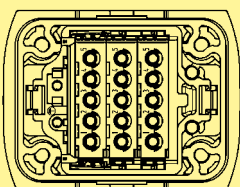
Housing, bulkhead mounting, mating side



Housing, bulkhead mounting, connection side

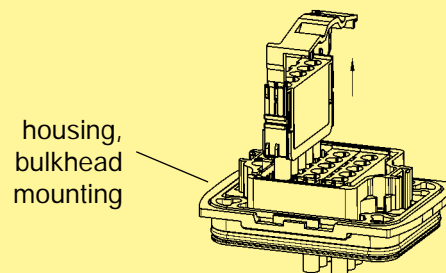
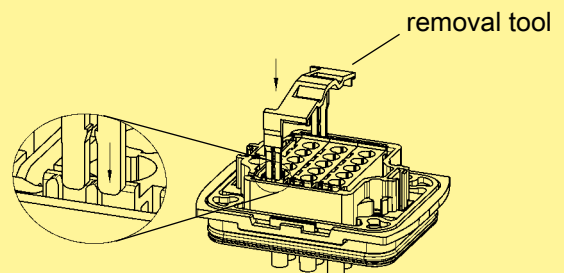
- ❑ A distinct click can be heard when the module snaps into position. It is then pushed along the rail to its final position.

The plug-in slots must always be completely filled.



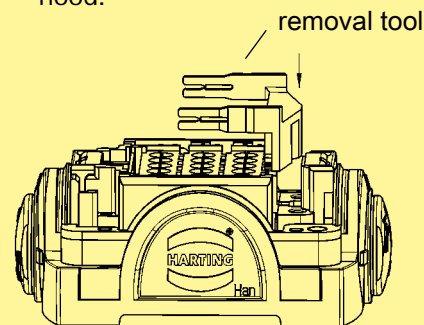
Disassembling the Han-Yellock® module

- ❑ The removal tool (part no. 11 99 000 0001) is required to take out the module.
- ❑ The following illustration shows how to insert the removal tool into the metal clamp. The tool should then be pressed down until it reaches the end stop.
- ❑ The tool is then pulled back and the module comes out of the housing.
- ❑ The removal can be made from the connection side as well as from the mating side.



- ❑ The process is identical for both housings, bulkhead mounting, and carrier hoods.

- ❑ The removal tool can be stored on the carrier hood:



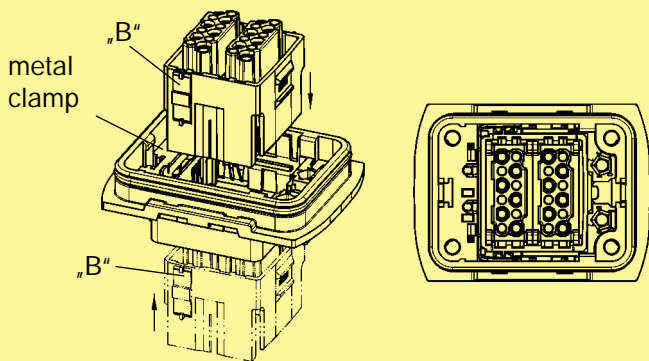
carrier hood

Han-Yellock® adapter frame

Han-Modular® series interfaces can be established using the Han-Yellock® adapter frame. The connection is based on a male/female contact arrangement.

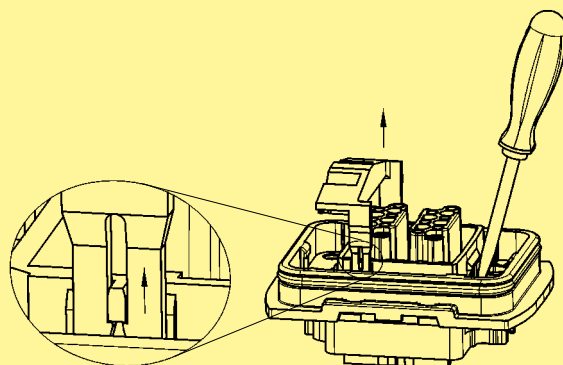
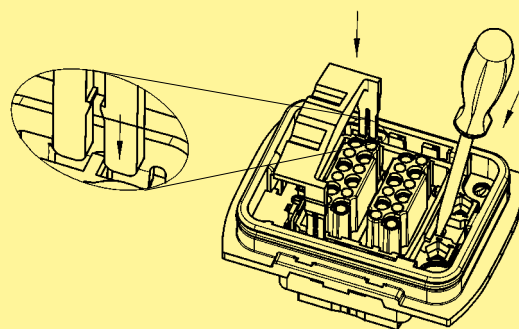
Inserting the adapter frame in the housing:

- ❑ The adapter frame can be snapped into the housing, bulkhead mounting, on the termination side and the mating side (refer to the illustration).
- ❑ The lateral plastic tabs („B“) are pressed into the metal clamps on the housing.
- ❑ The adapter frame then snaps in with a distinctly audible click.



Removal the adapter frame:

- ❑ The removal tool part no. 11 99 000 0001 is required for disassembly.
- ❑ The removal tool is inserted into the metal clamp and pressed down as shown in the following illustration. A screwdriver need also be placed into the notch in the housing.
- ❑ The removal tool should then be pulled outwards to remove the adapter frame from the housing.
- ❑ The removal can be made from the termination side as well as from the mating side.
- ❑ The process is identical for both housings, bulkhead mounting, and carrier hoods.



Han-Yellock® Protection covers

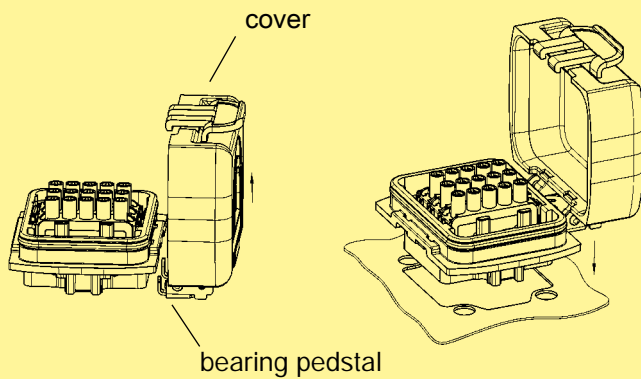
Protection cover function

To protect the insert against dust and water it is possible to use a Han-Yellock® protection cover.

The protection cover comes with a metal bearing pedestal and can be installed during initial or retrofit installation.

The Han-Yellock® design offer the possibility to snap in the pedestal either on the left or on the right side of the housing.

The direction of the cover movement can flip without turning the housing and inserts.

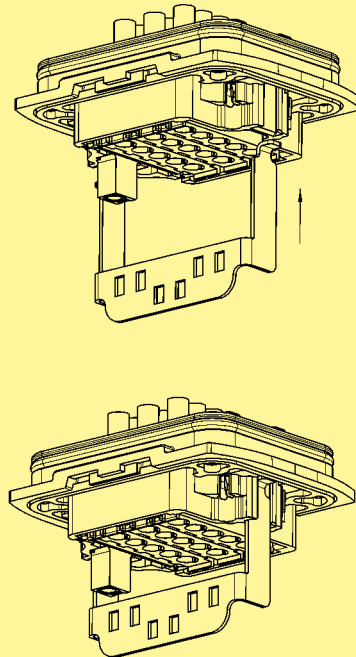


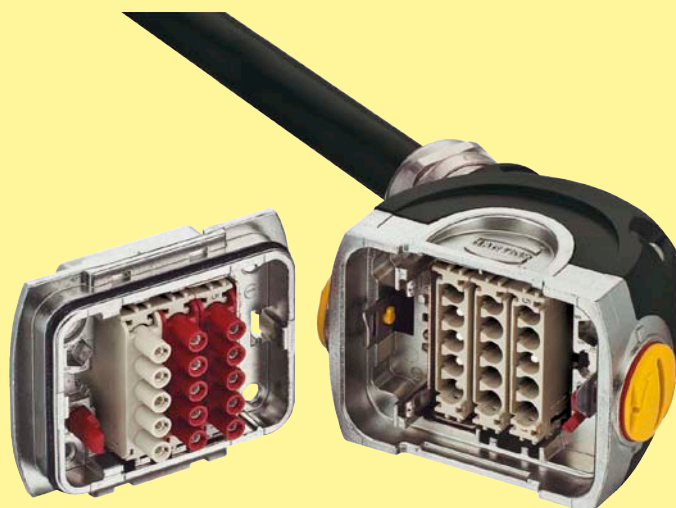
Han-Yellock® Ground terminal

Ground terminal assembly

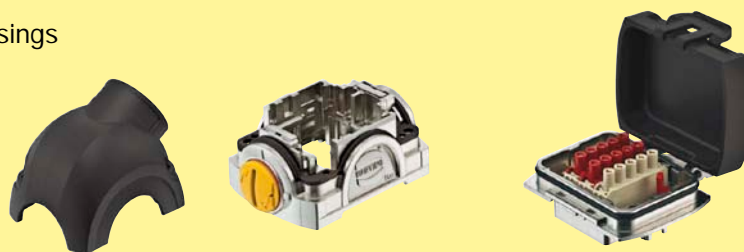
On the housing side ground terminals can be used.

After placing the frame deeply inside the housing slots the housing will be fixed to the panel leading to solid mounting of the complete set.



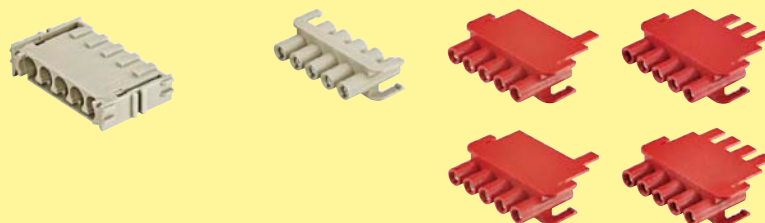


Han-Yellock® hoods/housings



page 14

Han-Yellock® modules



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Han-Yellock® adapter frames



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Features

- Two-part hoods for easy wiring and testing
- High robustness via an internal locking mechanism
- Earthed contacts PE in crimped or Quick Lock termination technique
- Protection cover retrofit on housing side

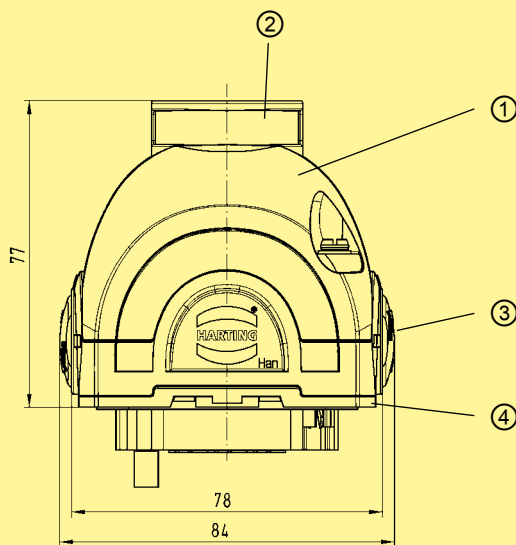
Technical Characteristics

Shell

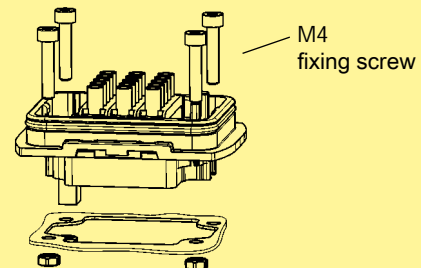
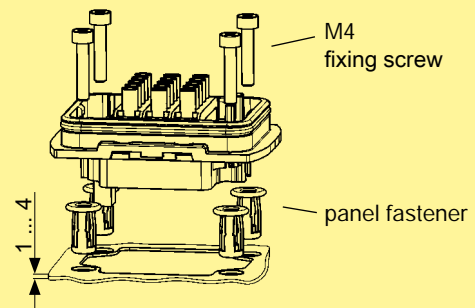
| | |
|---|--------------------|
| Material | aluminium |
| Surface | powder-coated |
| Locking element | stainless steel |
| Limiting temperatures | -40 °C ... +125 °C |
| Degree of protection acc. to DIN EN 60 529 when locking | IP 67 |
| Tightening torque | |
| M4 fixing screw | 1.2 Nm |

Carrier hoods and Housings, bulkhead mounting

| | |
|---|----------------------|
| Number of Han-Yellock® modules | |
| Han-Yellock® 30 | 3 |
| Han-Yellock® 60 | 6 |
| Material | Zinc die-cast |
| Surface | |
| Locking element | PA / stainless steel |
| Hoods/Housings sealing | NBR |
| Limiting temperatures | -40 °C ... +125 °C |
| Un-/Locking temperature | -10 °C ... +85 °C |
| Degree of protection acc. to DIN EN 60 529 when locking | IP 67 |
| Mechanical working life | |
| - mating cycles | 500 |
| PE wire | |
| termination gauge | ≤ 4 mm ² |
| Tightening torque | |
| M4 fixing screw | ≥ 1 Nm |
| panel fastener | 2.3 Nm |




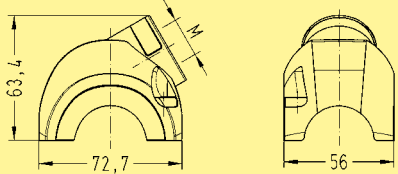

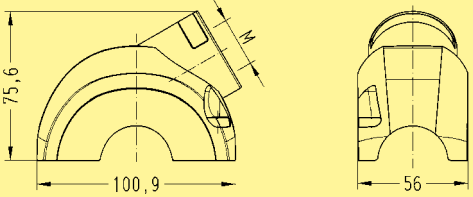

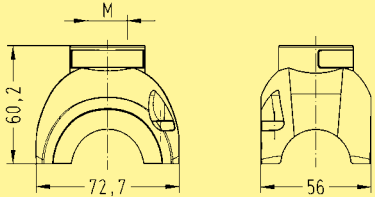

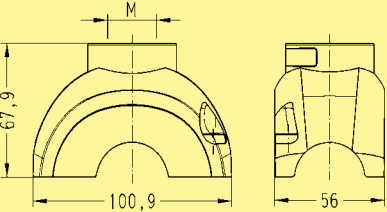
- ① Shell with top entry
- ② cable entry M25
- ③ Carrier hood with push button release
- ④ Housing, bulkhead mounting




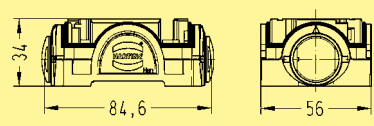
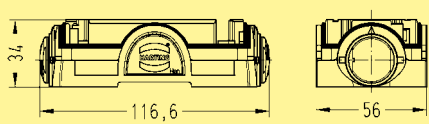

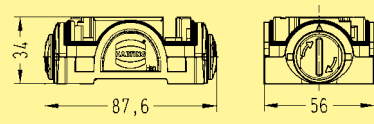
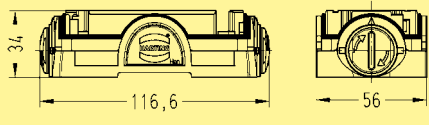

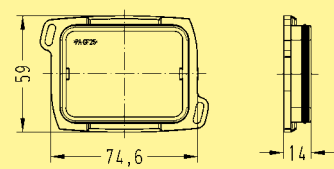
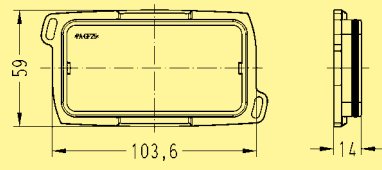
Protection covers

| | |
|---|-------|
| Material | PA |
| Hoods/Housings sealing | NBR |
| Degree of protection acc. to DIN EN 60 529 when locking | IP 67 |
| Flammability acc. to UL 94 | V0 |


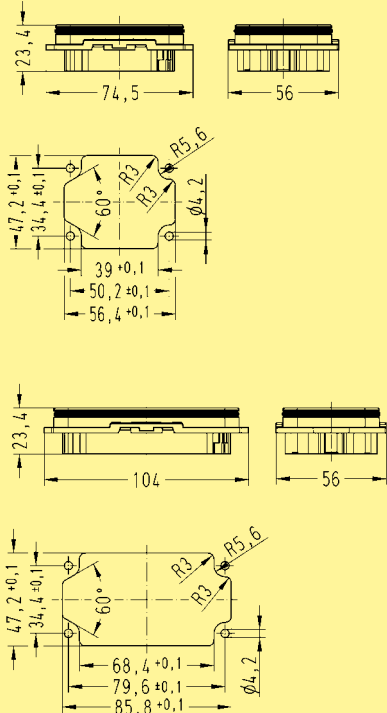

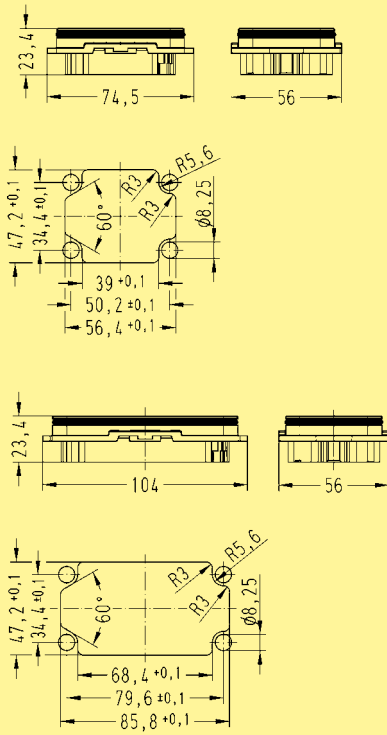
Han-Yellock® Hoods

| Identification | Part number | Cable entry metric | Drawing | Dimensions in mm | | |
|--|---|---|----------------|---|---|----|
| Shell side entry Han-Yellock® 30 Han-Yellock® 60 |  | 11 12 300 1500 | M20 |  | 56 | |
| | | 11 12 300 1501 | M25 | | | |
| | | 11 12 300 1502 | M32 | | | |
| |  | 11 12 600 1501 | M25 |  | 56 | |
| | | 11 12 600 1502 | M32 | | | |
| | | 11 12 600 1503 | M40 | | | |
| | Shell top entry Han-Yellock® 30 Han-Yellock® 60 |  | 11 12 300 1400 | M20 |  | 56 |
| | | | 11 12 300 1401 | M25 | | |
| | | | 11 12 300 1402 | M32 | | |
|  | | 11 12 600 1401 | M25 |  | 56 | |
| | | 11 12 600 1402 | M32 | | | |
| | | 11 12 600 1403 | M40 | | | |


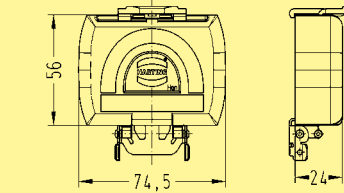
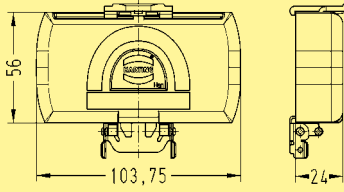
Han-Yellock® Hoods

| Identification | Part number | Cable entry metric | Drawing | Dimensions in mm |
|---|-----------------|--------------------|--|------------------|
| Carrier hood plain push button  | Han-Yellock® 30 | - |  | |
| | Han-Yellock® 60 | - |  | |
| Carrier hood push button, slot  | Han-Yellock® 30 | - |  | |
| | Han-Yellock® 60 | - |  | |
| Protection cover for carrier hoods with cord  | Han-Yellock® 30 | - |  | |
| | Han-Yellock® 60 | - |  | |

Han-Yellock® Housings

| Identification | Part number | Cable entry metric | Drawing | Dimensions in mm |
|---|---|--------------------|---|------------------|
| <p>Housing, bulkhead mounting</p>  <p>Han-Yellock® 30</p> <p>Han-Yellock® 60</p> | <p>11 12 300 0301</p> <p>11 12 600 0301</p> | |  | |
| <p>Housing, bulkhead mounting</p>  <p>Han-Yellock® 30</p> <p>Set consists of Han-Yellock® 30 housing, bulkhead mounting and panel fastener</p> <p>Han-Yellock® 60</p> <p>Set consists of Han-Yellock® 60 housing, bulkhead mounting and panel fastener</p> | <p>11 12 300 0302</p> <p>11 12 600 0302</p> | |  | |
| | | | | |

Han-Yellock® Housings

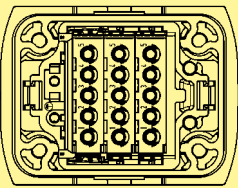
| Identification | Part number | Cable entry metric | Drawing | Dimensions in mm |
|--|--|--------------------|--|------------------|
| <p>Protection cover for housings, bulkhead mounting</p>  <p>Han-Yellock® 30</p> <p>Set consists of protection cover and bearing pedestal</p> <p>Han-Yellock® 60</p> <p>Set consists of protection cover and bearing pedestal</p> | <p>11 12 300 5401</p> <p>11 12 600 5401</p> | |   | |



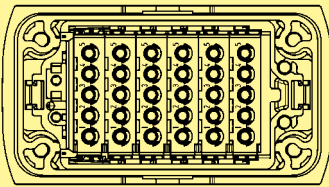
Features

- Snap-in assembly from mating side and from termination side
- Wiring with male contacts only
- Bus bar within bridge attachments
- Finger safe design
- Fast and tool-less assembly

Placement for Han-Yellock® 30
with 3 Han-Yellock® modules



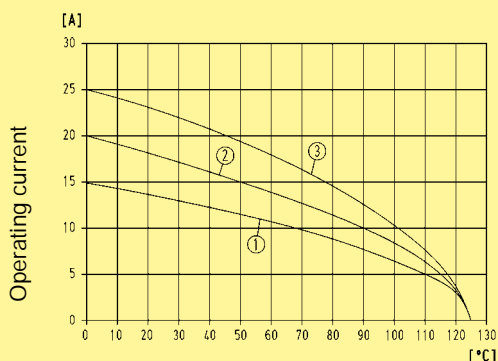
Placement for Han-Yellock® 60
with 6 Han-Yellock® modules



Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



Ambient temperature

① Wire gauge: 1.5 mm²

② Wire gauge: 2.5 mm²

③ Wire gauge: 4.0 mm²

for connector with 3 Han-Yellock® modules, fully loaded
(multiplier 1:1)

Technical Characteristics

| | |
|----------------|----------------------------------|
| Specifications | DIN EN 60 664-1 DIN EN 61 984 |
|----------------|----------------------------------|

Modules

| | |
|---------------------------------------|--------------------------|
| 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 |

| | |
|---|----------------------|
| Insulation resistance | ≥ 10 ¹⁰ Ω |
| Material | Polycarbonate |
| Limiting temperatures | -40 °C ... +125 °C |
| Flammability acc. to UL 94 | V0 |
| Mechanical working life - mating cycles | ≥ 500 |

Contacts

| | |
|----------------------------|----------------------------|
| Material | copper alloy |
| Surface | |
| - hart-silver plated | 3 μm Ag |
| Contact resistance | ≤ 2 mΩ |
| Crimp terminal | |
| - wire gauge ¹⁾ | 0.14 ... 4 mm ² |
| - AWG | 26 ... 12 |
| - Stripping length | 6.5 mm |



Number of contacts

5



| Identification | Part number | Drawing | Dimensions in mm |
|----------------|-------------|---------|------------------|
|----------------|-------------|---------|------------------|

| | | | |
|---------------------|----------------|--|----------------------------------|
| Han-Yellock® module | 11 05 105 3001 | | Dimensions in mm: 40, 9,75, 23,8 |
|---------------------|----------------|--|----------------------------------|

| Identification | Wire gauge (mm²) | Part number | Drawing | Dimensions in mm |
|----------------|------------------|-------------|---------|------------------|
|----------------|------------------|-------------|---------|------------------|

| Han-Yellock® Crimp contacts male contact Han-Yellock® TC20 silver-plated | 0.14-0.37 0.5 0.75 1.0 1.5 2.5 3.0 4.0 | 11 05 000 6101 11 05 000 6102 11 05 000 6103 11 05 000 6104 11 05 000 6105 11 05 000 6106 11 05 000 6107 11 05 000 6108 | <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14 - 0.37 mm²</td> <td>AWG 26-22</td> <td>6.5 mm</td> </tr> <tr> <td>0.5 mm²</td> <td>AWG 20</td> <td>6.5 mm</td> </tr> <tr> <td>0.75 mm²</td> <td>AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1 mm²</td> <td>AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1.5 mm²</td> <td>AWG 16</td> <td>6.5 mm</td> </tr> <tr> <td>2.5 mm²</td> <td>AWG 14</td> <td>6.5 mm</td> </tr> <tr> <td>3 mm²</td> <td>AWG 12</td> <td>6.5 mm</td> </tr> <tr> <td>4 mm²</td> <td>AWG 12</td> <td>6.5 mm</td> </tr> </tbody> </table> | Wire gauge | | Stripping length | 0.14 - 0.37 mm² | AWG 26-22 | 6.5 mm | 0.5 mm² | AWG 20 | 6.5 mm | 0.75 mm² | AWG 18 | 6.5 mm | 1 mm² | AWG 18 | 6.5 mm | 1.5 mm² | AWG 16 | 6.5 mm | 2.5 mm² | AWG 14 | 6.5 mm | 3 mm² | AWG 12 | 6.5 mm | 4 mm² | AWG 12 | 6.5 mm | Dimensions in mm: 6.2, 13.2, 1.75, 1.5, 6.5 |
|---|---|--|---|------------|--|------------------|-----------------|-----------|--------|---------|--------|--------|----------|--------|--------|-------|--------|--------|---------|--------|--------|---------|--------|--------|-------|--------|--------|-------|--------|--------|---|
| Wire gauge | | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14 - 0.37 mm² | AWG 26-22 | 6.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 mm² | AWG 20 | 6.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 mm² | AWG 18 | 6.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 mm² | AWG 18 | 6.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 mm² | AWG 16 | 6.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 mm² | AWG 14 | 6.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 mm² | AWG 12 | 6.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 mm² | AWG 12 | 6.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|---------------------------------|--|----------------|--|--|
| Removal tool for crimp contacts | | 09 99 000 0319 | | |
|---------------------------------|--|----------------|--|--|

Features

- Visible bridge position from mating side and from termination side
- Multiplier can be placed on the housing side or on the cable side
- Bus bar functionality for 1 up to 5 contacts
- Fast and easy exchange

Technical Characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984

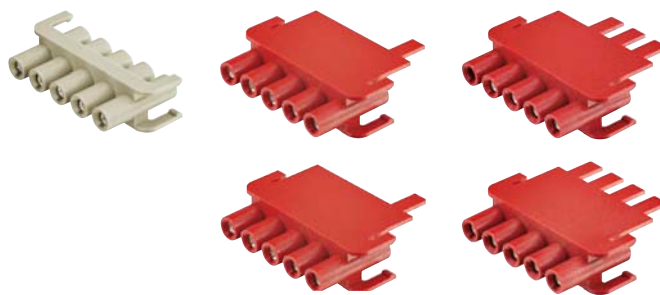
Multiplier


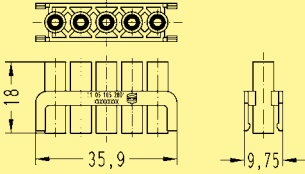

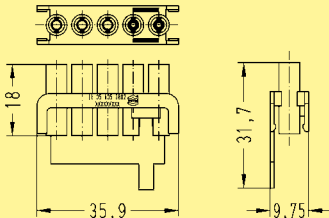

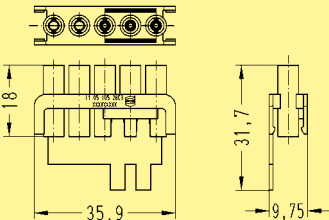

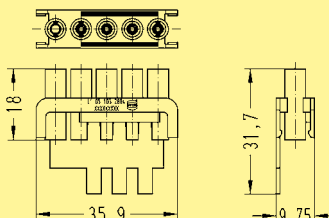

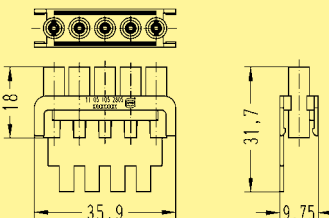
Number of contacts 5
 Material Polycarbonate
 Flammability acc. to UL 94 V0
 Mechanical working life
 - mating cycles ≥ 500

| | Bus bar contacts | Single contacts | Circuit diagram |
|----------------|------------------|-----------------|-----------------|
| multiplier 1:1 | 0 | 5 | |
| multiplier 2:3 | 2 | 3 | |
| multiplier 3:2 | 3 | 2 | |
| multiplier 4:1 | 4 | 1 | |
| multiplier 5:0 | 5 | 0 | |

Number of contacts

5



| Identification | Part number | Drawing | Dimensions in mm |
|---|----------------|--|------------------|
| Han-Yellock® multiplier | | | |
| multiplier 1:1  | 11 05 105 2801 |  | |
| multiplier 2:3  | 11 05 105 2802 |  | |
| multiplier 3:2  | 11 05 105 2803 |  | |
| multiplier 4:1  | 11 05 105 2804 |  | |
| multiplier 5:0  | 11 05 105 2805 |  | |

Features

- Suitable for Han-Modular® modules up to 4 mm²
- Snap-in functionality from mating side and from termination side

Technical Characteristics

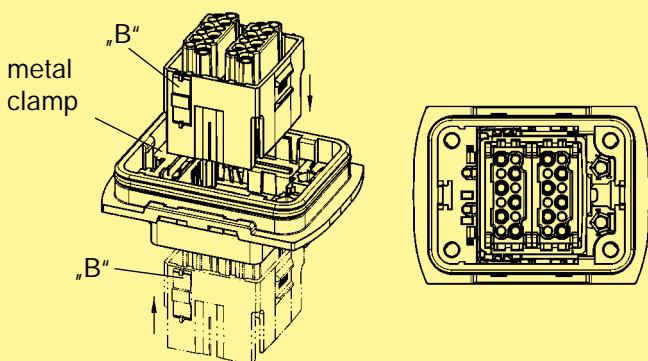
| | |
|----------------|----------------------------------|
| Specifications | DIN EN 60 664-1 DIN EN 61 984 |
|----------------|----------------------------------|

Adapter frames

| | |
|----------------------------|---------------|
| Number of modules | max. 2 |
| Material | Polycarbonate |
| Flammability acc. to UL 94 | V0 |

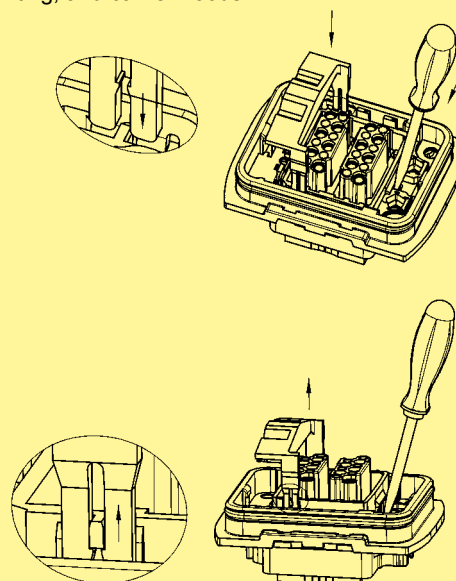
Mounting

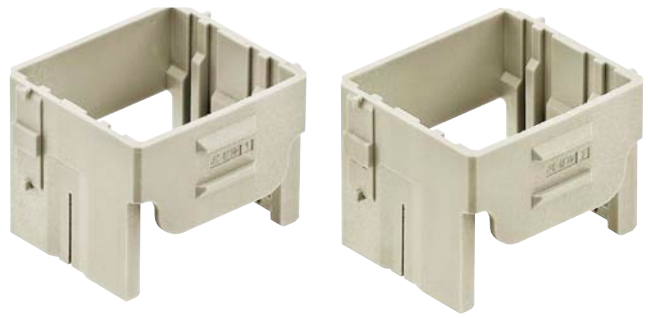
- The adapter frame can be snapped into the housing, bulkhead mounting, on the connection side and the plug-in side (refer to the illustration).
- The lateral plastic tabs („B“) are pressed into the metal clamps on the housing.
- The adapter frame then snaps in with a distinctly audible click.


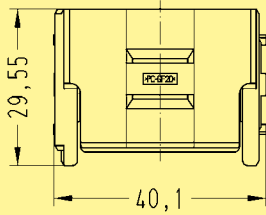
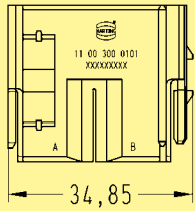

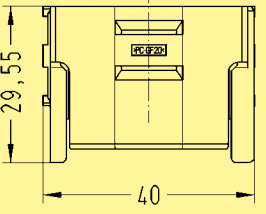
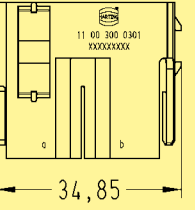


















Removal







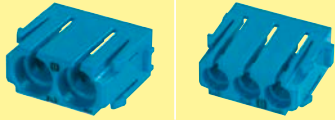



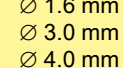

- The removal tool part no. 09 99 000 0001 is required for removal.
- The removal tool is inserted into the metal clamp and pressed down as shown in the following illustration. A screwdriver can also be placed into the notch in the housing.
- The removal tool should then be pulled outwards to remove the adapter frame from the housing.
- The removal can be made from the connection side as well as from the plug-in side.
- The process is identical for both housings, bulkhead mounting, and carrier hoods.




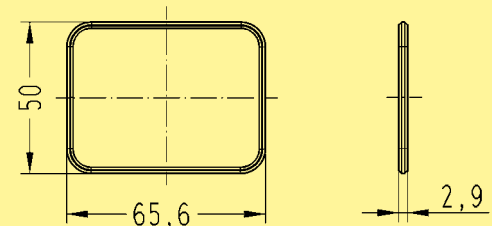
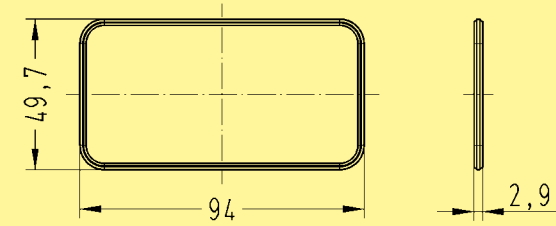

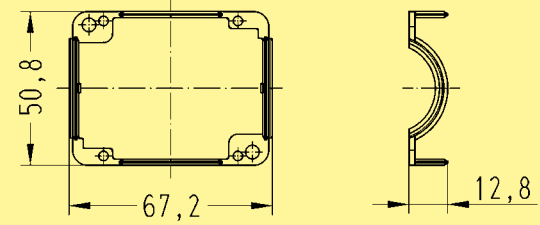
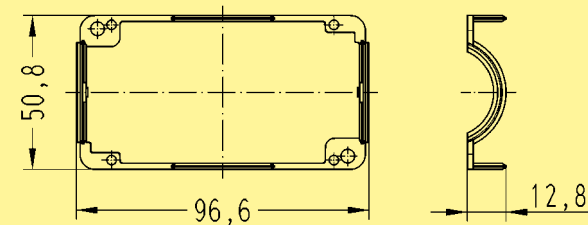

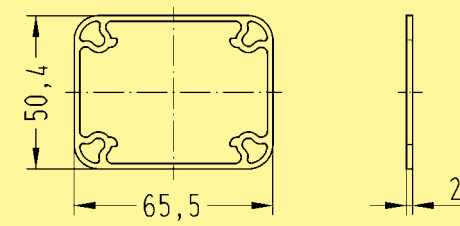
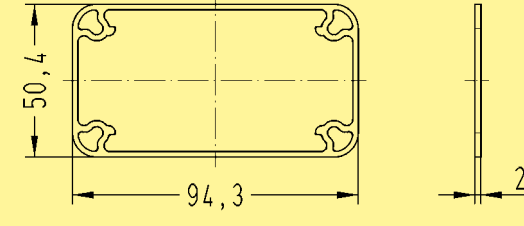



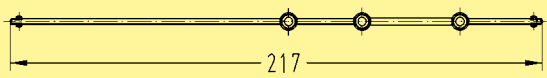

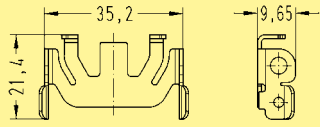

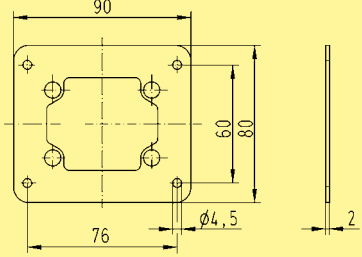

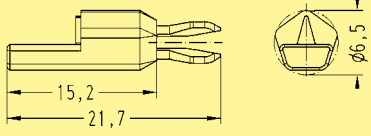

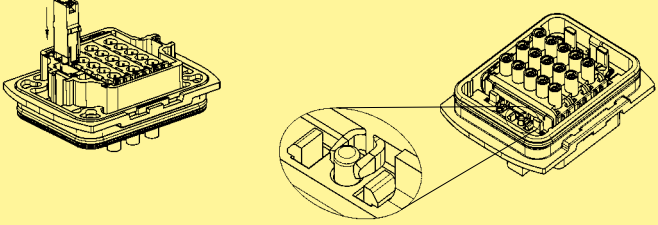
| Identification | Part number | Drawing | Dimensions in mm |
|---|------------------------------|---|---|
| <p>Han-Yellock® 30 Adapter frame</p> <p>for carrier hoods</p>  | <p>11 00 300 0101</p> |  |  |
| <p>for housings, bulkhead mounting</p>  | <p>11 00 300 0301</p> |  |  |

| | | | | |
|--------------------|---|---|--|---|
| Modules | Han® CC Protected module | Han® CD module | Han E® module | Han® EE module |
| Number of contacts | 4 | 3 / 4 | 6 | 8 |
| Termination | Crimp terminal | Crimp terminal | Crimp terminal | Crimp terminal |
| |  |  |  |  |
| Rated current | 40 A | 40 A / 10 A | 16 A | 16 A |
| Rated voltage | 830 V | 830 V / 830 V | 500 V | 400 V |
| Wire gauge | 1.5 - 6 mm ² | 1.5 - 6 mm ² / 0.14 - 2.5 mm ² | 0.5 - 4 mm ² | 0.5 - 4 mm ² |
| Modules | Han® EE module | Han E® Protected module | Han® EEE module | Han® ES module |
| Number of contacts | 8 | 6 | 20 | 5 |
| Termination | Quick Lock terminal | Crimp terminal | Crimp terminal | Cage-clamp terminal |
| |  |  |  |  |
| Rated current | 16 A | 16 A | 16 A | 16 A |
| Rated voltage | 400 V | 830 V | 500 V | 400 V |
| Wire gauge | 0.5 - 2.5 mm ² | 0.5 - 4 mm ² | 0.5 - 4 mm ² | 0.14 - 2.5 mm ² |
| Modules | Han DD® module | Han® DDD module | Han® High Density module | Han® D-Sub module |
| Number of contacts | 12 | 17 | 25 | 9 |
| Termination | Crimp terminal | Crimp terminal | Crimp terminal | Crimp terminal |
| |  |  |  |  |
| Rated current | 10 A | 10 A | 4 A | 5 A |
| Rated voltage | 250 V | 160 V | 50 V | 50 V |
| Wire gauge | 0.14 - 2.5 mm ² | 0.14 - 2.5 mm ² | 0.08 - 0.52 mm ² | 0.08 - 0.52 mm ² |
| Modules | Han® USB module | Han® FireWire module | Han® RJ45 module | Han® GigaBit module |
| Number of contacts | 4 | 6 | 8 | 8 |
| Termination | USB 2.0 | IEEE 1394 | Ethernet Cat. 5e | Ethernet Cat. 6 |
| |  |  |  |  |

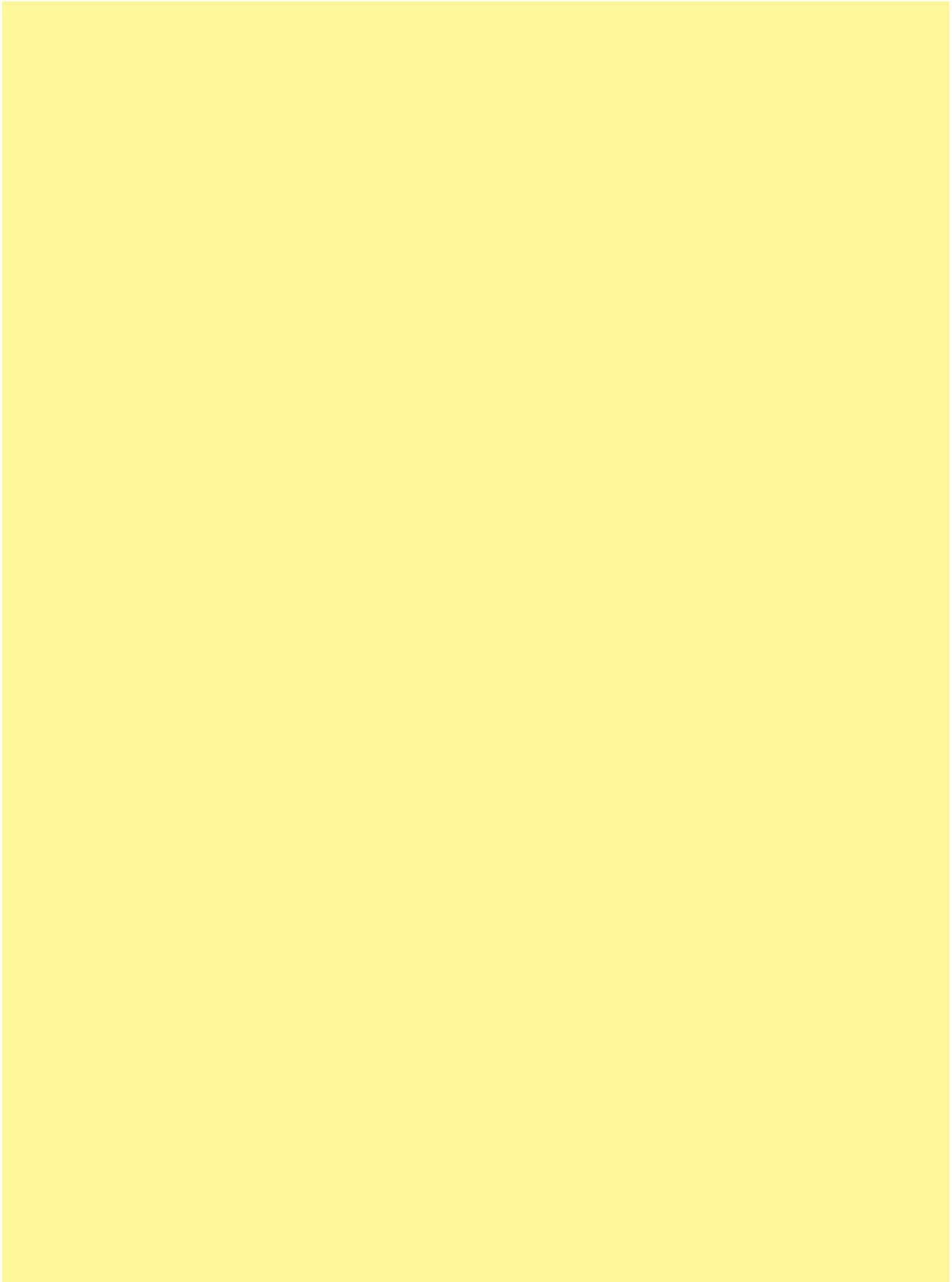
| Modules | Han-Quintax® module | | | | Han® Multi Contact module | |
|--------------------|--|---|---|---|---|--|
| Number of contacts | 2 | | | | 4 | |
| Contacts |  <p>Quintax contact 4 + shielding</p> |  <p>High Density Quintax contact 8 + shielding</p> |  <p>Han D° Coax contact 1 + shielding</p> <p>75 Ω</p> |  <p>Han E° Coax contact 1 + shielding</p> <p>50 Ω</p> |  <p>F.O. contact</p> <p>Multimode F.O. HCS®*/PCF F.O. 1 mm POF</p> |  <p>Coaxial contact</p> <p>50 Ω RG 174 75 Ω RG 179 50 Ω RG 58</p> |
| Modules | Han® Pneumatic module | | Han® SC module | | | |
| Number of contacts | 2 | | 3 | | 4 | |
| Contacts |  <p>Pneumatic contacts</p>  <p>Ø 6.0 mm</p> | |  <p>SC contact</p>  <p>Ø 1.6 mm</p>  <p>Ø 3.0 mm</p>  <p>Ø 4.0 mm</p> | | | |

* HCS®=Hard Clad Silica (is registered trade mark of SpecTran Corporation)

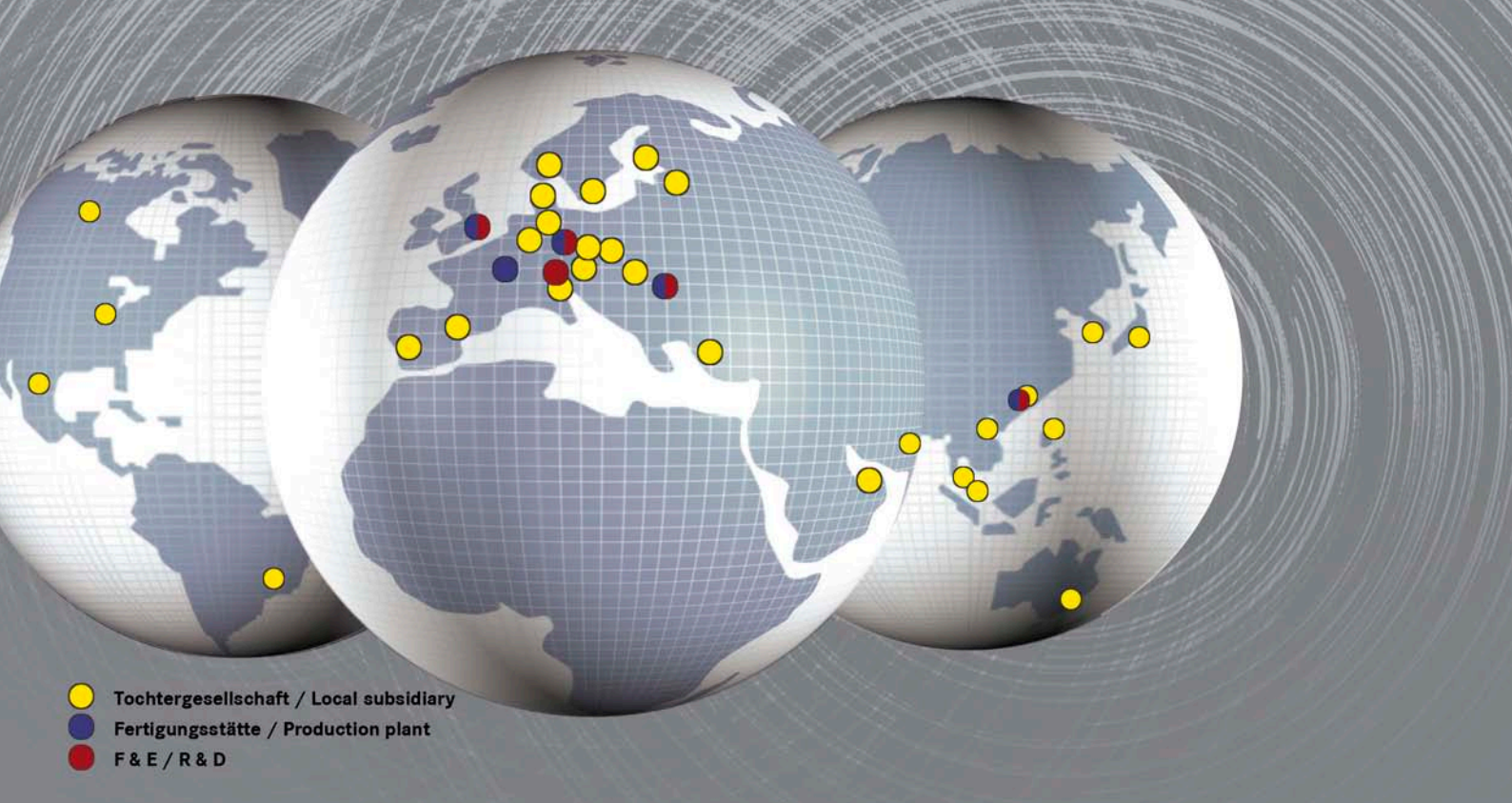
| Identification | Part number | Drawing | Dimensions in mm |
|---|-----------------------|--|------------------|
| <p>Han-Yellock® Profile seal</p>  <p>for Han-Yellock® 30</p> | <p>11 00 300 9501</p> |  | |
| <p>for Han-Yellock® 60</p> | <p>11 00 600 9501</p> |  | |
| <p>Han-Yellock® Seal for carrier hoods</p>  <p>for Han-Yellock® 30</p> | <p>11 00 300 9502</p> |  | |
| <p>for Han-Yellock® 60</p> | <p>11 00 600 9502</p> |  | |
| <p>Han-Yellock® Gasket</p>  <p>for Han-Yellock® 30</p> | <p>11 00 300 9503</p> |  | |
| <p>for Han-Yellock® 60</p> | <p>11 00 600 9503</p> |  | |

| Identification | Part number | Drawing | Dimensions in mm |
|--|----------------|--|------------------|
| <p>Han-Yellock® Fixing cord for protection cover cable side</p>  | 11 00 000 9507 |  | |
| <p>Han-Yellock® Bearing pedestal</p>  | 11 00 000 9506 |  | |
| <p>Han-Yellock® 30 Adapter plate circular 68 mm punch to Han-Yellock® panel cut out</p>  | 11 00 300 9601 |  | |
| <p>Han-Yellock® Identification sticks</p> | 11 00 000 9601 | | |
| <p>Han-Yellock® Coding pins Set of 8 coding pins</p>  | 11 00 000 9501 |  | |
| <p>PE Contact chamber with Quick Lock termination</p>  | 11 05 001 2601 |  | |
| | | | |

| Identification | Part number | Drawing | Dimensions in mm |
|---|--|--|-------------------------|
| <p>BUCHANAN crimping tool</p> <p>Locator Han-<i>Yellock</i>[®]</p> <p>Multiple crimping tool depth adjustment gauge</p> | <p>09 99 000 0001</p> <p>09 99 000 0342</p> <p>09 99 000 0379</p> | <p>Wire gauge 0.14 ... 4 mm²</p> <p>Wire gauge 0.14 ... 0.37 mm² Ø 1.00 0.5 ... 1.0 mm² Ø 1.55 1.5 ... 2.5 mm² Ø 1.80 3.0 ... 4.0 mm² Ø 2.00</p> | <p>order separately</p> |
| <p>HARTING crimping tool Han D[®], Han E[®], Han[®] C locator included</p> <p>Locator Han-<i>Yellock</i>[®]</p> | <p>09 99 000 0110</p> <p>09 99 000 0341</p> | <p>Wire gauge 0.5 ... 4 mm²</p> | |
| <p>HARTING Service crimping tool Han D[®], Han E[®] locator included</p> <p>Locator Han-<i>Yellock</i>[®]</p> | <p>09 99 000 0021</p> <p>09 99 000 0343</p> | <p>Wire gauge 0.14 ... 1.5 mm²</p> | |
| <p>Removal tool for Han-<i>Yellock</i>[®] modules and frames</p> | <p>11 99 000 0001</p> | | |
| <p>Removal tool for crimp contacts</p> | <p>09 99 000 0319</p> | <p>This removal tool is necessary if contacts are to be replaced in the insert. The tool is inserted from the wiring side until a stop is noticeable. The wire with the crimp contact can then be pulled out from the same side of the insert.</p> | |
| <p>Panel Punch panel cut out tool panel thickness steel: ≤ 2.5 mm stainless steel: ≤ 2.0 mm for hydraulic pump punch force: ≥ 60 kN thread: 3/4" UNF</p> <p>for Han-<i>Yellock</i>[®] 30</p> | <p>11 99 300 0001</p> | | |



| Part number | Page | Part number | Page |
|----------------|------|----------------|------|
| 09 99 000 0001 | 30 | 11 12 300 0100 | 16 |
| 09 99 000 0021 | 30 | 11 12 300 0110 | 16 |
| 09 99 000 0110 | 30 | 11 12 300 0301 | 17 |
| 09 99 000 0319 | 21 | 11 12 300 0302 | 17 |
| 09 99 000 0319 | 30 | 11 12 300 1400 | 15 |
| 09 99 000 0341 | 30 | 11 12 300 1401 | 15 |
| 09 99 000 0342 | 30 | 11 12 300 1402 | 15 |
| 09 99 000 0343 | 30 | 11 12 300 1500 | 15 |
| 09 99 000 0379 | 30 | 11 12 300 1501 | 15 |
| | | 11 12 300 1502 | 15 |
| | | 11 12 300 5401 | 18 |
| 11 00 000 9501 | 29 | 11 12 300 5451 | 16 |
| 11 00 000 9506 | 29 | | |
| 11 00 000 9507 | 29 | 11 12 600 0100 | 16 |
| 11 00 000 9601 | 29 | 11 12 600 0101 | 16 |
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| 11 00 300 0101 | 25 | 11 12 600 0302 | 17 |
| 11 00 300 0301 | 25 | 11 12 600 1401 | 15 |
| 11 00 300 9501 | 28 | 11 12 600 1402 | 15 |
| 11 00 300 9502 | 28 | 11 12 600 1403 | 15 |
| 11 00 300 9503 | 28 | 11 12 600 1501 | 15 |
| 11 00 300 9601 | 29 | 11 12 600 1502 | 15 |
| | | 11 12 600 1503 | 15 |
| 11 00 600 9501 | 28 | 11 12 600 5401 | 18 |
| 11 00 600 9502 | 28 | 11 12 600 5451 | 16 |
| 11 00 600 9503 | 28 | | |
| | | 11 99 000 0001 | 30 |
| | | 11 99 300 0001 | 30 |
| 11 05 000 6101 | 21 | | |
| 11 05 000 6102 | 21 | | |
| 11 05 000 6103 | 21 | | |
| 11 05 000 6104 | 21 | | |
| 11 05 000 6105 | 21 | | |
| 11 05 000 6106 | 21 | | |
| 11 05 000 6107 | 21 | | |
| 11 05 000 6108 | 21 | | |
| 11 05 001 2601 | 29 | | |
| 11 05 105 2801 | 23 | | |
| 11 05 105 2802 | 23 | | |
| 11 05 105 2803 | 23 | | |
| 11 05 105 2804 | 23 | | |
| 11 05 105 2805 | 23 | | |
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