



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, a wind energy plants, factory automation and the telecommunications sector. In addition, HARTING also produces electro-magnetic components for the automobile industry and offers solutions in the field of Enclosures and Shop Systems. The HARTING Group currently comprises 36 subsidiary companies and worldwide distributors employing a total of more than 3,400 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.

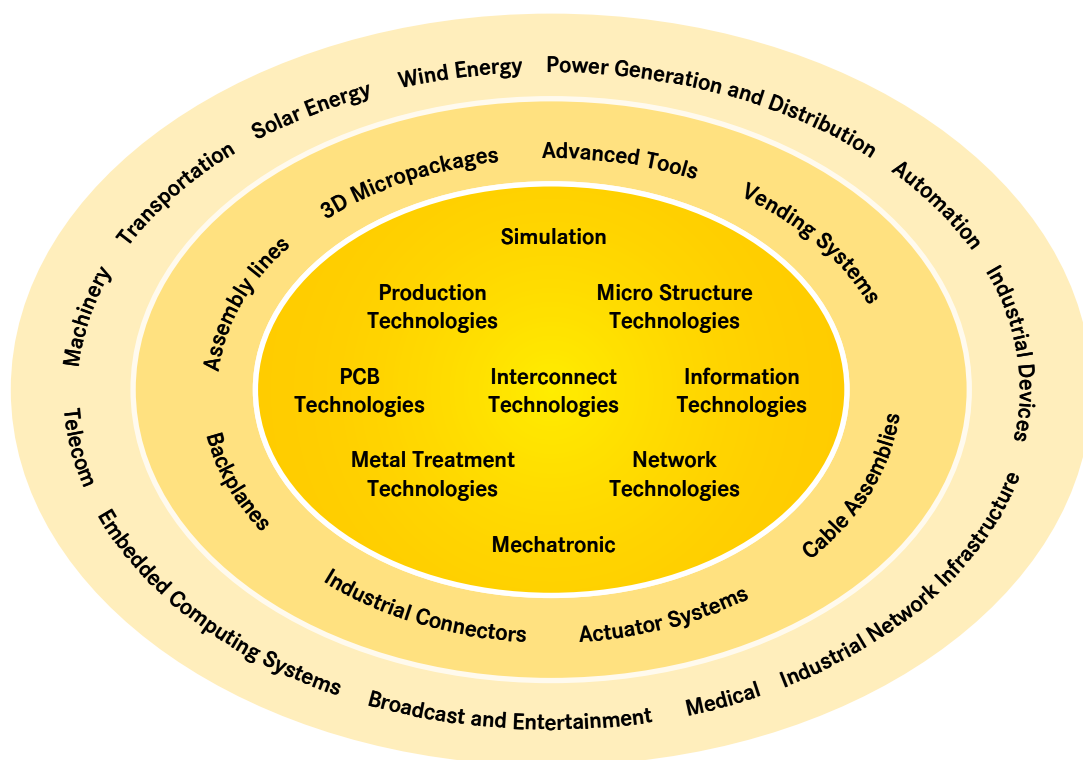
In order to ensure the future proof design of RF- and EMC-compatible interface solutions, the central HARTING laboratory (certified to EN 45001) provides simulation tools, as well as experimental, testing and diagnostics facilities all the way through to scanning electron microscopes. In the selection of materials and processes, lifecycle and environmental aspects play a key role, in addition to product and process capability considerations.



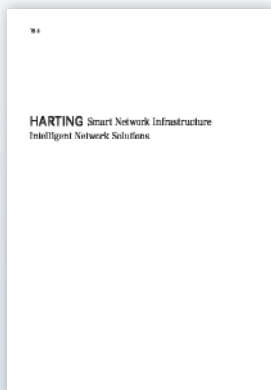
HARTING knowledge is practical know-how generating synergy effects.

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.



Smart Network Infrastructure

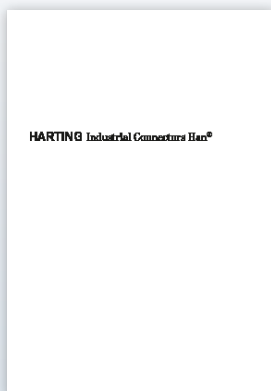


INTELLIGENT NETWORK SOLUTIONS

With its product series Ha-VIS, HARTING offers a consistent range of Ethernet network components and cabling products, which from the communication platform of convergent

automation IT networks. Under Ha-VIS HARTING offers fully integrated RFID solutions.

Installation Technology

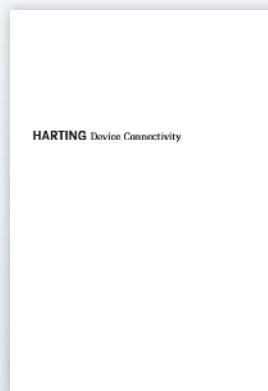


INDUSTRIAL CONNECTORS Han®

This catalogue documents the worldwide standard for industrial connectors. Han® connectors represent the preferential solution in the cable-to-cable interconnection of data, signal and power applications operating under the most

demanding conditions and meeting stringent requirements with regard to safe and detachable electrical connections with high degree of protection IP 65 / IP 67. Installations making use of Han® connectors impress with their rugged design, convenient handling and modularity of data, signal and power connections. Han® connectors represent the worldwide standard in industry, railway technology, as well as in power generation and distribution.

Device Connectivity



DEVICE CONNECTIVITY

The Device Connectivity catalogue provides a universal, innovative product portfolio of PCB connections and of termination technology. The product range comprises board-to-board and cable-to-board connectors for industrial electronic devices with

degree of protection IP 20 to IP 65 / IP 67. These HARTING solutions offer appropriate device connectivity for a wide range of devices, ranging from sensors to industrial computers and their respective data, signal and power interfaces.

Contents

Page

Description of the Han-Yellock® system.	8
Han-Yellock® 10 Hoods/Housings Technical characteristics	14
Han-Yellock® 10 Hoods/Housings - Hoods	15
Han-Yellock® 10 Hoods/Housings - Housings	16
Summary Han® 3 A	17
Han-Yellock® 30 + 60 Hoods/Housings Technical characteristics	22
Han-Yellock® 30 + 60 Hoods/Housings - Hoods	23
Han-Yellock® 30 + 60 Hoods/Housings - Housings	25
Han-Yellock® Modules	28
Han-Yellock® Quick Lock module	30
Han-Yellock® Multiplier.	32
Han-Yellock® Adapter frames.	34
Summary Han-Modular®	36
Han-Yellock® Monoblock 30.	38
Han-Yellock® Monoblock 60.	40
Han-Yellock® Accessories	42
Tools for contacts Han-Yellock® (11 05 ...).	45
List of part numbers	47
HARTING® eCatalogue	48

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 –

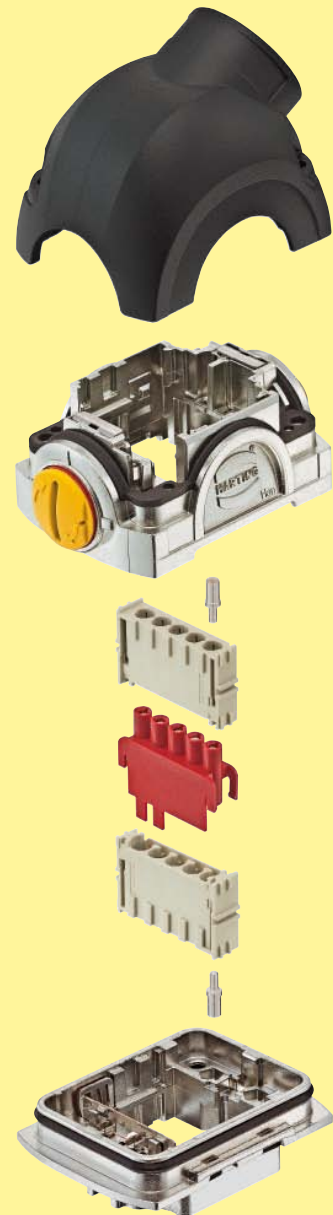
- Less wiring work within a machine,

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



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.

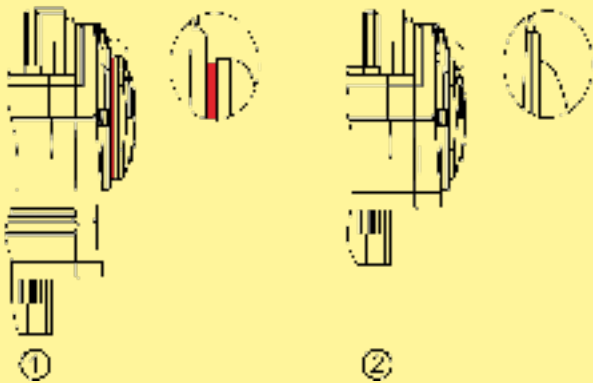
The Locking

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:

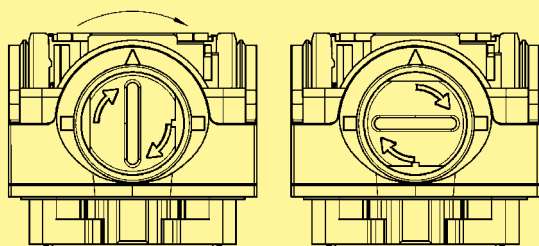
- Easy handling
- Resistance to vibrations and shock
- Protected against accidental opening
- Compact, space-saving design

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.



- ① unlocked
- ② 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“

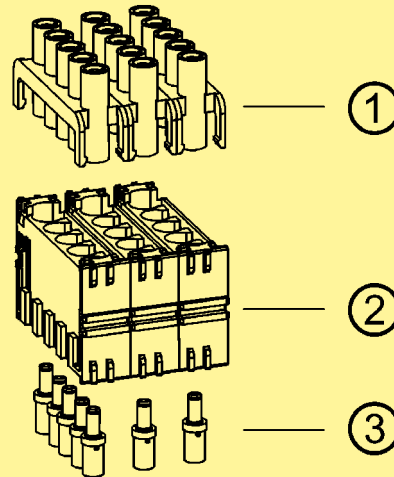
„blocked“

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.



- ① multiplier
- ② Han-Yellock® module
- ③ Han-Yellock® crimp contacts

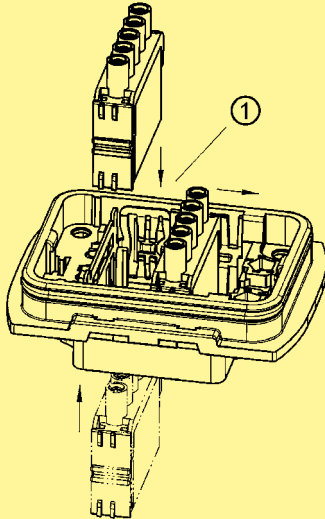
This concept allows a 1:1 wire to wire arrangement and in addition the use of bridges. Two to five contacts can be arranged.

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.

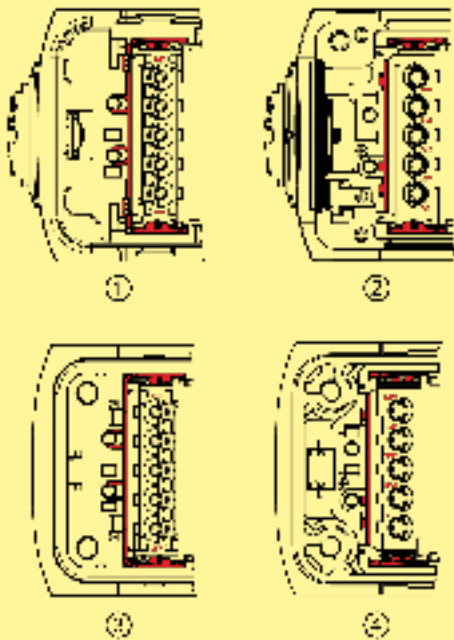
Inserting the module into the hoods/housing

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

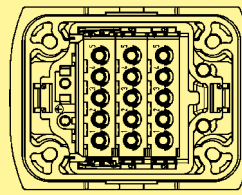


① plug-in position „A“

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

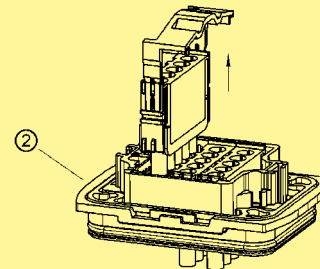
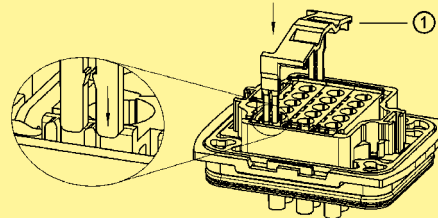


- ① Carrier hood, mating side
 - ② Carrier hood, connection side
 - ③ Housing, bulkhead mounting, mating side
 - ④ Housing, bulkhead mounting, connection side
- A distinct click can be heard when the module snaps into position. It is then pushed along the rail to its final position. The plug-in slots must always be completely filled.



Disassembling the Han-Yellock® module

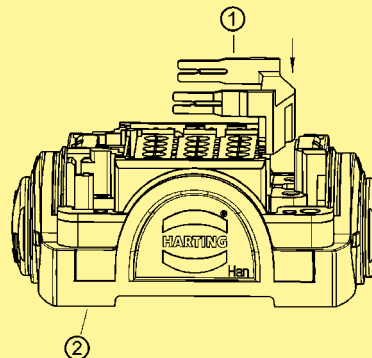
- The removal tool (part no. 11 99 000 0001) is required to take out the module.
- The following illustration shows how to insert the removal tool into the metal clamp. The tool should then be pressed down until it reaches the end stop.
- The tool is then pulled back and the module comes out of the housing.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



- ① removal tool
- ② housing, bulkhead mounting

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

The removal tool can be stored on the carrier hood:



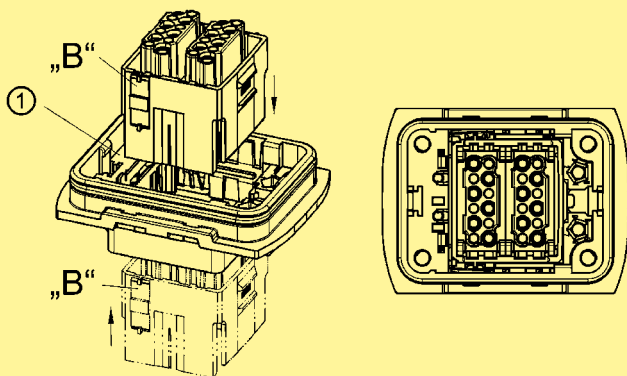
- ① removal tool
- ② carrier hood

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:

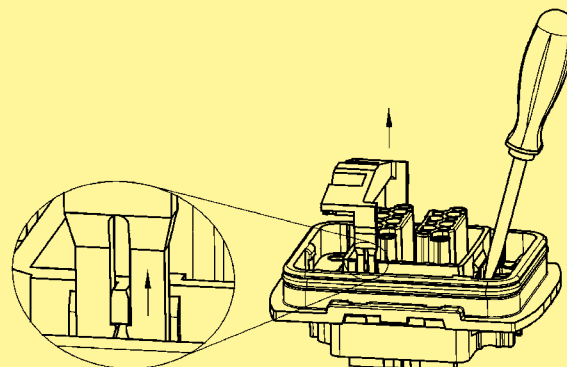
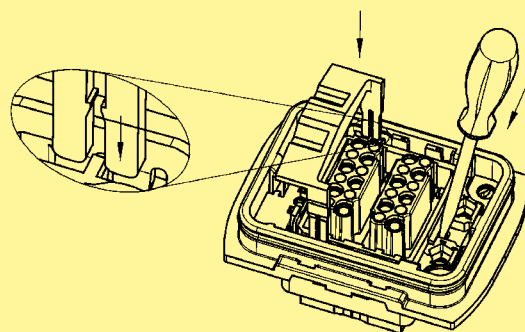
- The adapter frame can be snapped into the housing, bulkhead mounting, on the termination side and the mating side (refer to the illustration).
- The lateral plastic tabs („B“) are pressed into the metal clamps on the housing.
- The adapter frame then snaps in with a distinctly audible click.



① metal clamp

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

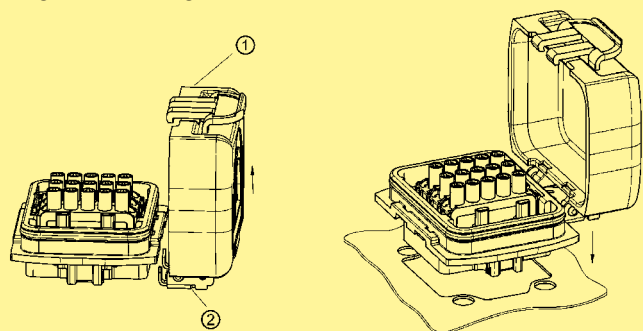
Protection cover function

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.



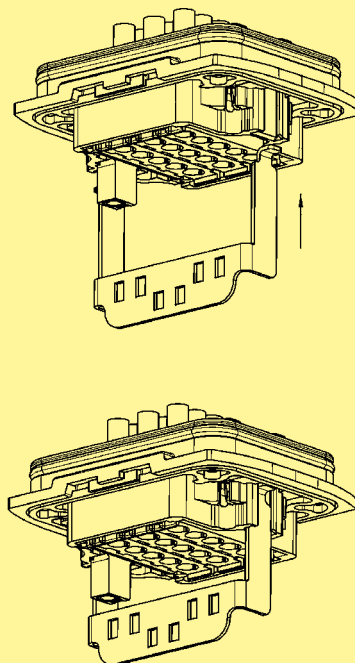
- ① cover
- ② bearing pedestal

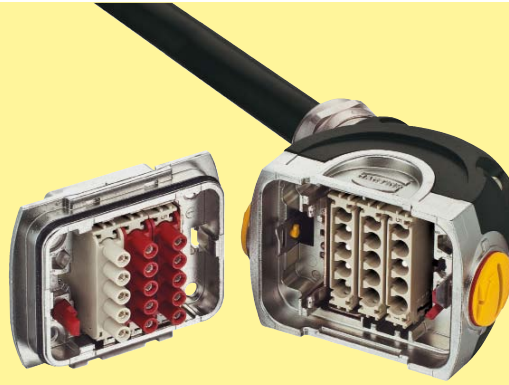
Han-Yellock® Ground terminal

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.



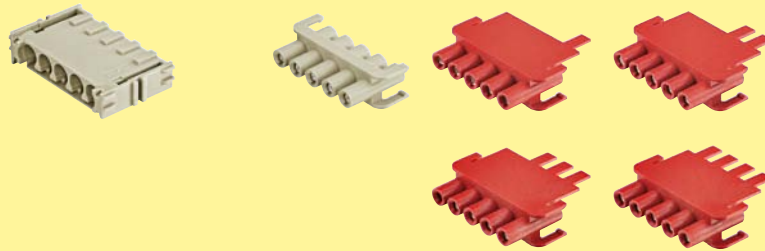


Han-Yellock® Hoods/Housings



see page 14
onwards

Han-Yellock® Modules



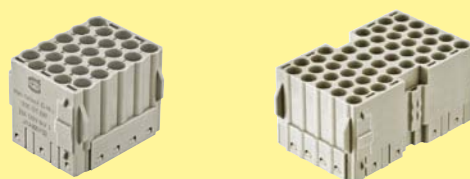
see page 28
onwards

Han-Yellock® Adapter frames



see page 34
onwards

Han-Yellock® Monoblocks



see page 38
onwards


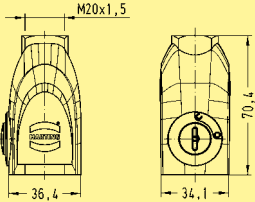

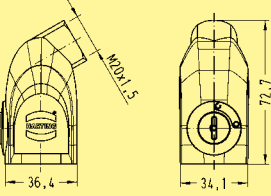
Features

- Compatible with all inserts size Han® 3 A
- High robustness via an internal locking mechanism
- Optimal EMC properties
- High quality industrial design
- With entry for M20 or M25 cable glands


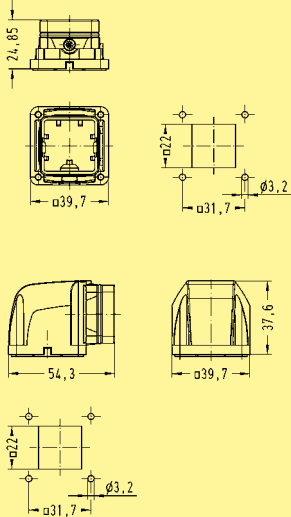

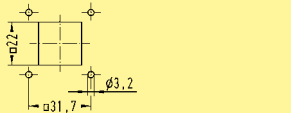
Technical characteristics

Material	zinc die-cast
Surface	
Hood	Epoxy powder paint
Housings bulkhead mounting	zinc passivation
Locking element	PA / stainless steel
Limiting temperatures	-40 °C ... +125 °C
Un-/Locking temperatures	-10 °C ... +85 °C
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 65 / IP 67
Tightening torque	
M3 fixing screw	1 Nm

Hoods Han-Yellock®

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Hood top entry Han-Yellock® 10		11 20 003 1400 11 20 003 1401	M20 M25	
		11 20 003 1600 11 20 003 1601	M20 M25	

Housings Han-Yellock®

Identification	Part number	Cable entry	Drawing	Dimensions in mm
<p>Housings bulkhead mounting</p> <p>Han-Yellock® 10</p> 	<p>11 20 003 0300</p>			
<p>Han-Yellock® 10</p> 	<p>11 20 003 0800</p>			

Stock items in bold type

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	Han® Q 2/0	Han® Q 5/0	Han® Q 5/0 Quick Lock
Number of contacts	2 +	2 +	5 +	5 +
Termination	Axial screw terminal 	Crimp terminal 	Crimp terminal 	Quick Lock termination
Rated current	40 A	40 A	16 A	16 A
Rated voltage	830 V	830 V	230 / 400 V	230 / 400 V
Wire gauge	4 ... 10 mm ²	1,5 ... 10 mm ²	0,14 ... 2,5 mm ²	0,5 ... 2,5 mm ²
Male insert (M)	09 12 002 2652	09 12 002 3052	09 12 005 3001	09 12 005 2633
Female insert (F)	09 12 002 2752	09 12 002 3152	09 12 005 3101	09 12 005 2733





Series	Han® Q 7/0	Han® Q 12/0		
Number of contacts	7 +	12 +		
Termination	Crimp terminal 	Crimp termination/ Quick Lock termination 		
Rated current	10 A	10 A		
Rated voltage	400 V	400 V		
Wire gauge	0,14 ... 2,5 mm ²	0,14 ... 2,5 mm ²		
Male insert (M)	09 12 007 3001	09 12 012 3001		
Female insert (F)	09 12 007 3101	09 12 012 3101		

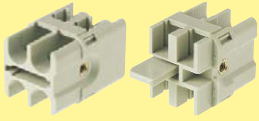
Series	Sta® 6	Sta® 6		
Number of contacts	6	6		
Termination	Solder terminal 	Screw terminal 		
Rated current	10 A	10 A		
Rated voltage	~ 25 V / - 60 V	~ 25 V / - 60 V		
Wire gauge	2,5 mm ²	1,5 mm ²		
Male insert (F)	09 70 006 2615	09 70 006 2616		
Female Insert (M)	09 70 006 2812	09 70 006 2813		

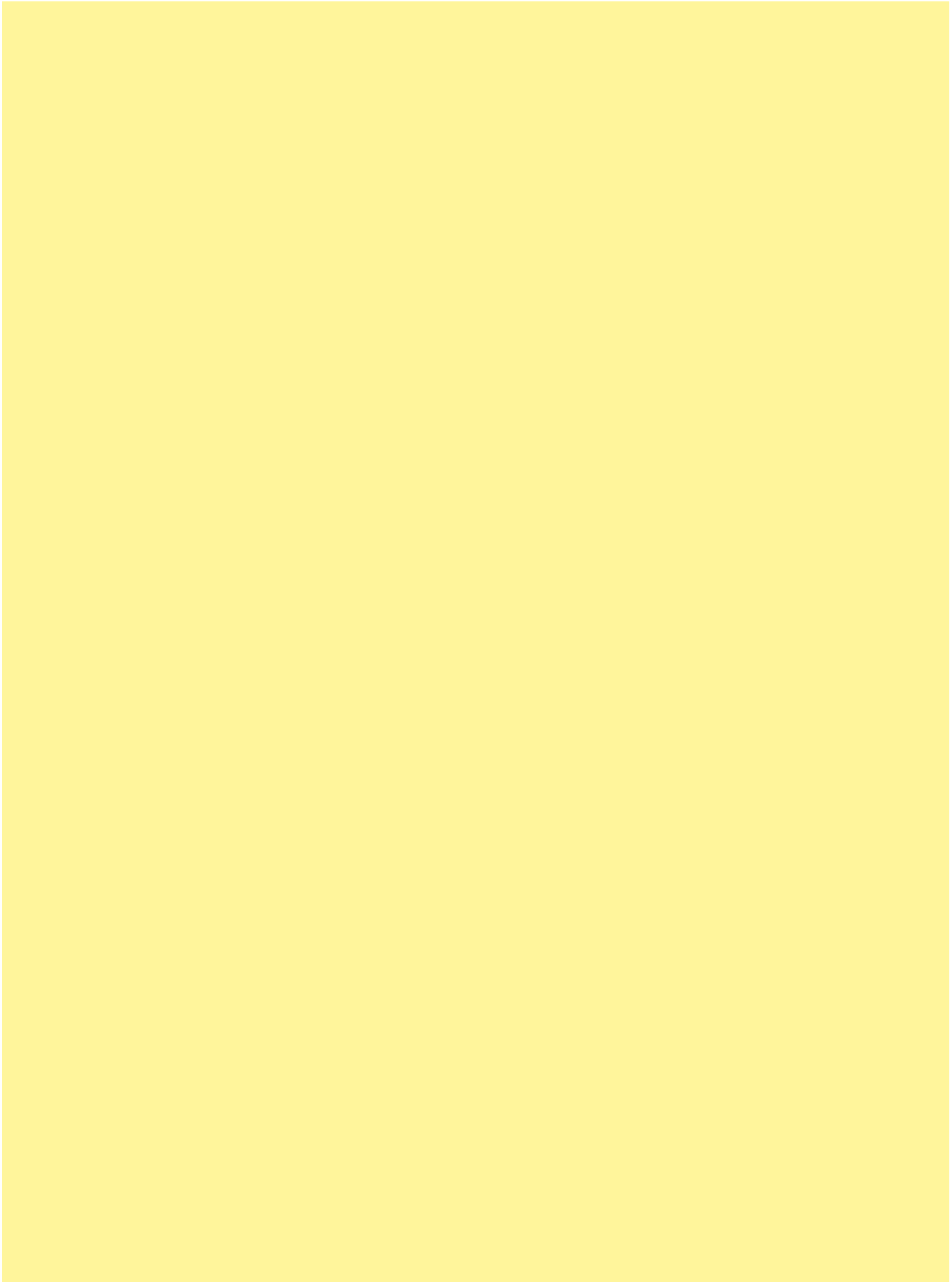
Series	Han-Brid® Cu	Han-Brid® Cu	Han-Brid® Cu	Han-Brid® Cu
Number of contacts	4 / 2	4 / 2	4 / 2	4 / 2
Termination	Crimp terminal / IDC Insulation displacement terminal 	Crimp terminal / Crimp terminal 	Cage-clamp terminal / Cage-clamp terminal 	Crimp terminal / Crimp terminal 
Rated current	10 A	10 A	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

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

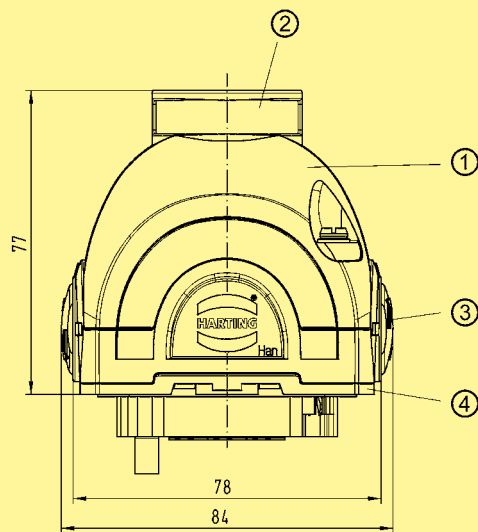
Series	Han-Brid [®] RJ45 C	Han-Brid [®] F.O.	Han-Brid [®] F.O.	Han-Brid [®] F.O.
Number of contacts	2 / 4	4 / 2	4 / 2	4 / 2
Termination	Crimp terminal / RJ45 	Crimp terminal / F.O. 	Crimp terminal / F.O. 	Crimp terminal / F.O. 
Rated current	10 A	10 A	10 A	10 A
Rated voltage	24 V	50 V	50 V	50 V
Wire 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			



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



- ① Shell with top entry
- ② Thread M20 ... M40
- ③ Carrier hood with push button release
- ④ Housings bulkhead mounting

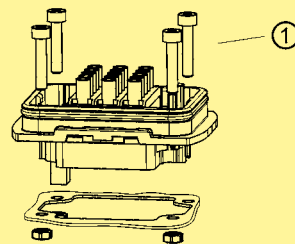
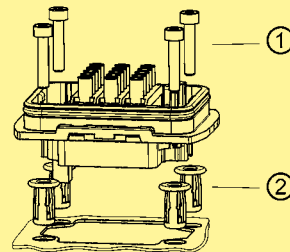
Technical characteristics

Shells and Housings, surface mounting

Material	aluminium die-cast
Surface	Epoxy powder paint
Locking element	stainless steel
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65 / IP 67
Tightening torque M4 fixing screw	1.2 Nm ... 2,0 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	zinc passivation
Locking element	PA / stainless steel
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Un-/Locking temperatures	-10 °C ... +85 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65 / IP 67
Mechanical working life	
- mating cycles	< 500
PE contact wire gauge	≤ 4 mm ²
Tightening torque	
M4 fixing screw	1 Nm
panel fastener	2.3 Nm



- ① M4 fixing screw (screw length > 20 mm)
- ② panel fastener

Protection covers

Material	PA
Hoods/Housings seal	NBR
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65 / IP 67
Flammability acc. to UL 94	V 0

Hoods Han-Yellock®


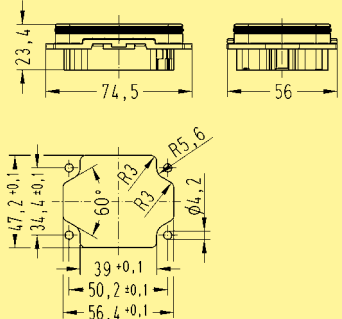
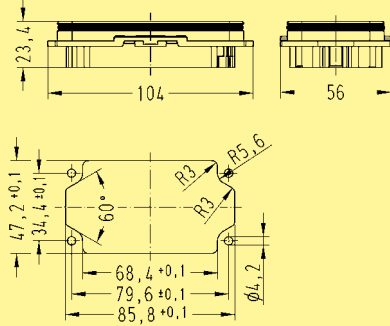

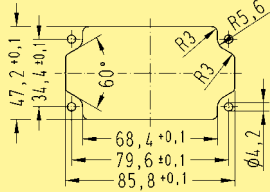

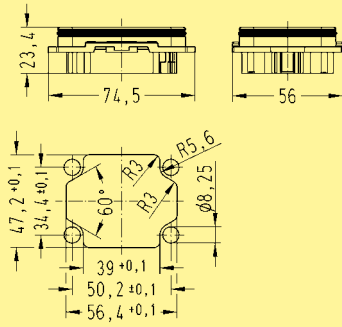
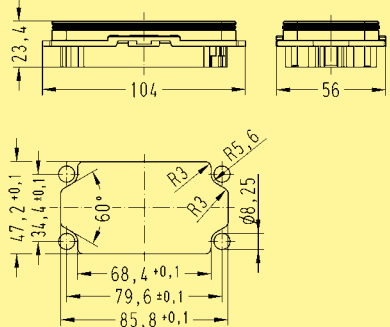

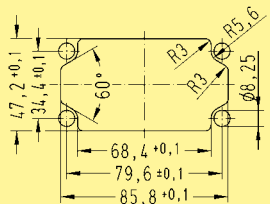
Identification	Part number	Cable entry	Drawing	Dimensions in mm		
Shell side-entry Han-Yellock® 30	11 12 300 1500	M20				
	11 12 300 1501	M25				
	11 12 300 1502	M32				
	Han-Yellock® 30	11 12 300 1510	M20			
		Han-Yellock® 60	11 12 600 1501			M25
	11 12 600 1502		M32			
	11 12 600 1503		M40			
	Shell top entry	Han-Yellock® 30	11 12 300 1400	M20		
			11 12 300 1401	M25		
11 12 300 1402			M32			
Han-Yellock® 60		11 12 600 1401	M25			
		11 12 600 1402	M32			
		11 12 600 1403	M40			
Han-Yellock® 60		11 12 600 1411	2x M25			
		11 12 600 1415	1x M20 1x M25			

Hoods Han-Yellock®

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Shell angled entry Han-Yellock® 30	11 12 300 1600 11 12 300 1601 11 12 300 1602	M20 M25 M32		
Carrier hood plain push button Han-Yellock® 30	11 12 300 0100			
Han-Yellock® 60	11 12 600 0100			
Carrier hood push button, slot Han-Yellock® 30	11 12 300 0110			
Han-Yellock® 60	11 12 600 0110			
Protection cover for carrier hoods Han-Yellock® 30	11 12 300 5451			
Han-Yellock® 60	11 12 600 5451			


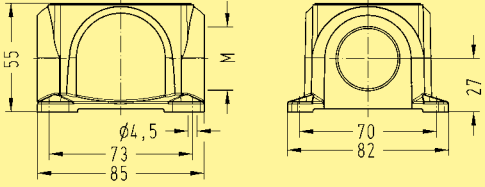

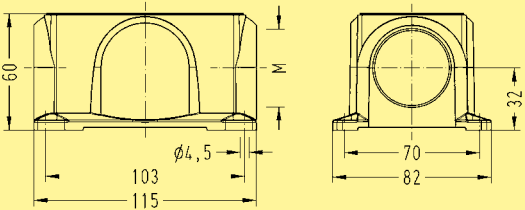

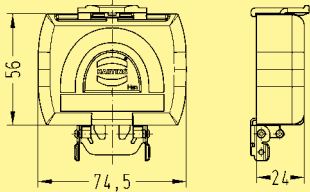

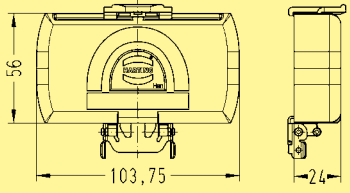
Stock items in bold type

Housings Han-Yellock®

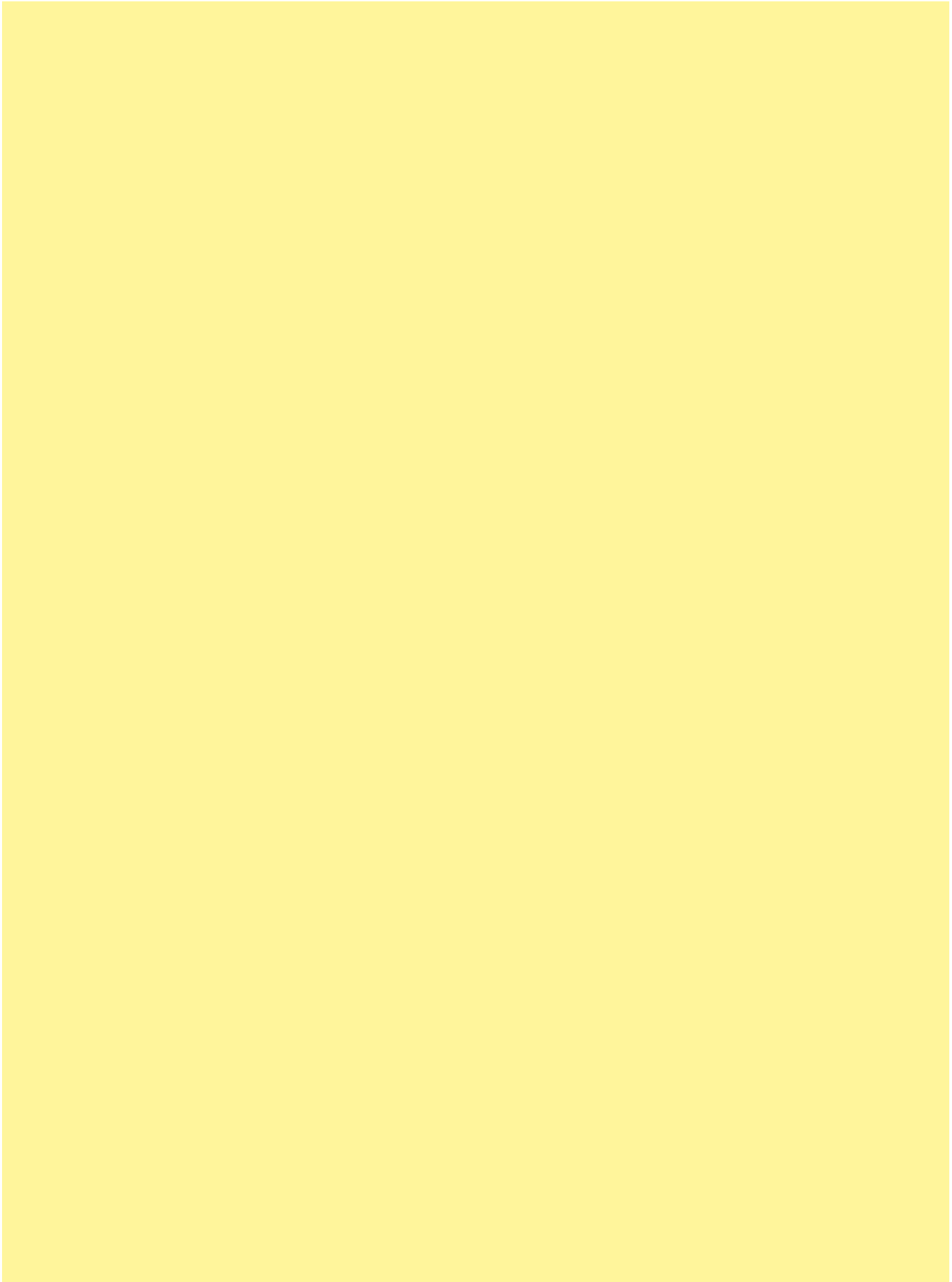
Identification	Part number	Cable entry	Drawing	Dimensions in mm
<p>Housings bulkhead mounting</p> <p>Han-Yellock® 30</p> 	11 12 300 0301			 
<p>Han-Yellock® 60</p> 	11 12 600 0301			
<p>Housings bulkhead mounting</p> <p>Set consists of Han-Yellock® housing, bulkhead mounting, and panel fastener *</p>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

* screws for using with panel fastener M4x20 or longer

Housings Han-Yellock®

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Housings surface mounting				
Han-Yellock® 30 	11 12 300 1200	M20		
	11 12 300 1201	M25		
	11 12 300 1202	M32		
	11 12 300 1205	2x M25		
	11 12 300 1206	2x M32		
Han-Yellock® 60 	11 12 600 1202	M32		
	11 12 600 1203	M40		
	11 12 600 1206	2x M32		
	11 12 600 1207	2x M40		
Protection cover for housings, bulkhead mounting				
Han-Yellock® 30 	11 12 300 5401			
Han-Yellock® 60 	11 12 600 5401			

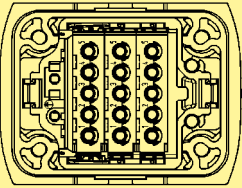
Stock items in bold type



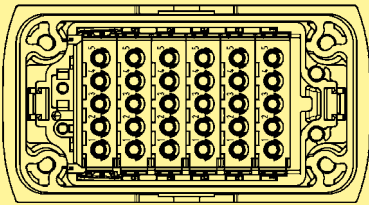
Features

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

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



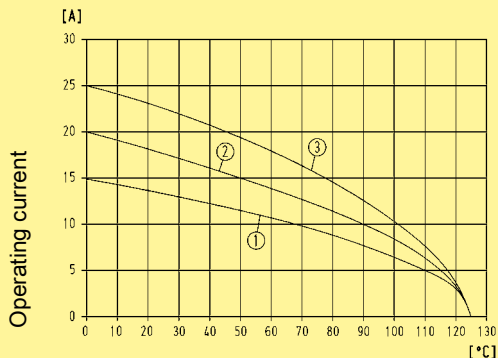
Placement for Han-Yellock® 60
with 6 Han-Yellock® modules



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 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 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	PC
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥500

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
Contact resistance	≤ 2 mΩ
Crimp terminal	
- Wire gauge	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		

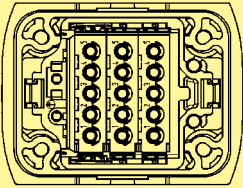
Identification	Wire gauge (mm²)	Part number	Drawing	Dimensions in mm																											
Han-Yellock® crimp contacts Male contact Han-Yellock® TC20																															
silver plated																															
	0.14-0.37	11 05 000 6101																													
	0.5	11 05 000 6102																													
	0.75	11 05 000 6103																													
	1	11 05 000 6104																													
	1.5	11 05 000 6105																													
	2.5	11 05 000 6106																													
	3	11 05 000 6107																													
	4	11 05 000 6108																													
			<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37</td> <td>mm² AWG 26-22</td> <td>6.5 mm</td> </tr> <tr> <td>0.5</td> <td>mm² AWG 20</td> <td>6.5 mm</td> </tr> <tr> <td>0.75</td> <td>mm² AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1</td> <td>mm² AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1.5</td> <td>mm² AWG 16</td> <td>6.5 mm</td> </tr> <tr> <td>2.5</td> <td>mm² AWG 14</td> <td>6.5 mm</td> </tr> <tr> <td>3</td> <td>mm² AWG 12</td> <td>6.5 mm</td> </tr> <tr> <td>4</td> <td>mm² 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	
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	
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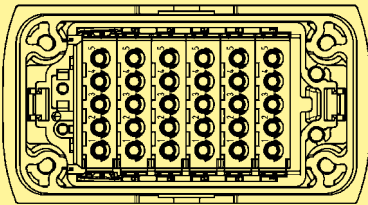
Features

- Snap-in assembly from mating side and from termination side
- Bus bar within bridge attachments
- Finger safe design
- Fast and tool-less assembly
- Compatible with Han-Yellock® modules with crimp termination

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



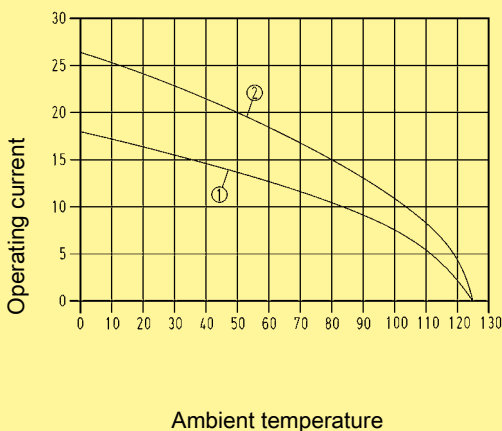
Placement for Han-Yellock® 60
with 6 Han-Yellock® modules



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



① wire gauge: 1.5 mm²

② wire gauge: 2.5 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

Quick Lock Modules

Electrical data acc. to 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	V 0
Mechanical working life - mating cycles	≥500

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
Contact resistance	≤ 2 mΩ
Quick Lock termination	
<u>blue slide</u>	
- Wire gauge	0.5 ... 2.5 mm ²
- AWG	20 ... 14
- Stripping length	10 mm
- Max. insulation diameter	3.6 mm
<u>black slide</u>	
- Wire gauge	0.25 ... 1.5 mm ²
- AWG	23 ... 16
- Stripping length	10 mm
- Max. insulation diameter	3 mm

PE contact

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
Contact resistance	≤ 2 mΩ
Crimp terminal	
- Wire gauge	6 mm ² / 10 mm ²
- AWG	10 / 8
Stripping length	7.5 mm

Suitable crimping tool 09 99 000 0377

Number of contacts

5



Identification	Part number	Drawing	Dimensions in mm
Han-Yellock® Quick Lock module 			
blue slide 0.5 ... 2.5 mm ²	11 05 105 2633		
black slide 0.25 ... 1.5 mm ²	11 05 105 2634		

Identification	Cable gauge (mm ²)	Part number	Drawing	Dimensions in mm
Han-Yellock® PE contacts Male contact				
	6 10	11 00 000 9509 11 00 000 9510		

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

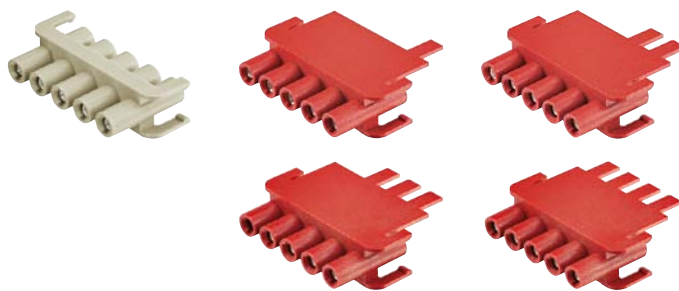
Multiplier

Number of contacts 5
 Material polycarbonate
 Flammability acc. to UL 94 V 0
 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



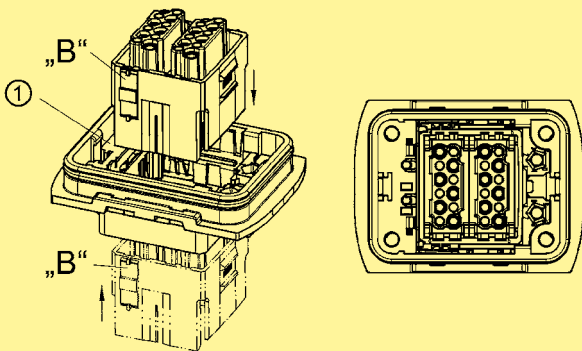
Identification	Part number	Drawing	Dimensions in mm
Han-Yellock® Multiplier			
Multiplier 1:1	11 05 105 2801		
Multiplier 2:3	11 05 105 2802		
Multiplier 3:2	11 05 105 2803		
Multiplier 4:1	11 05 105 2804		
Multiplier 5:0	11 05 105 2805		

Features

- Flexible design of interfaces with the aid of Han-Modular®
- Snap-in assembly from mating side and from termination side for Han-Yellock® 30 and 60
- Removal from mating side and from termination side possible for Han-Yellock® 30 and 60
- Fast and tool-less assembly
- Mounting of adapter frame Han-Yellock® 20 from termination side only

Assembly

- The adapter frame can be snapped into the housing, bulk-head 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.



① metal clamp

Technical characteristics

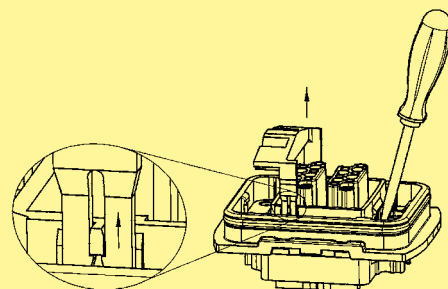
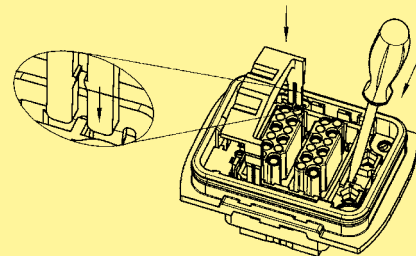
Specifications	DIN EN 60 664-1 DIN EN 61 984
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Adapter frames


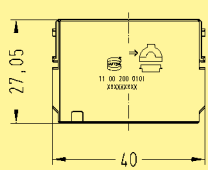
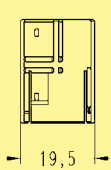

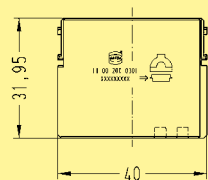
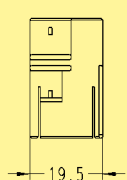

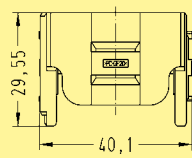
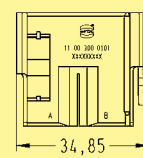

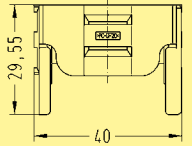
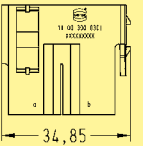

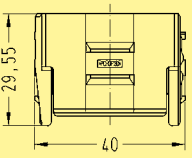
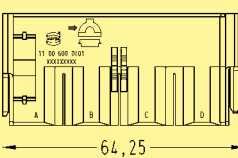

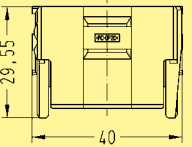
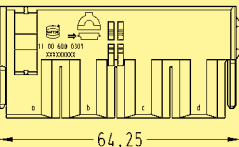
Number of modules	1 / 2 / 4
Material	PC
Flammability acc. to UL 94	V 0

Removal














- 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.





Identification	Part number	Drawing	Dimensions in mm
Han-Yellock® 20 Adapter frames *			
for carrier hoods 	11 00 200 0101		
for housings, bulkhead mounting 	11 00 200 0301		
Han-Yellock® 30 Adapter frames			
for carrier hoods 	11 00 300 0101		
for housings, bulkhead mounting 	11 00 300 0301		
Han-Yellock® 60 Adapter frames			
for carrier hoods 	11 00 600 0101		
for housings, bulkhead mounting 	11 00 600 0301		

* mounting from termination side only

Series	Han® CC Protected module	Han® CD module	Han E® module	Han® EE module
Number of contacts	4	3	6	8
Modules	Crimp terminal 	Crimp terminal 	Crimp terminal 	Crimp terminal 
Rated current	40 A	40 A	16 A	16 A
Rated voltage	830 V	830 V	500 V	400 V
Wire gauge	1.5 ... 6 mm ²	1.5 ... 6 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²
Series	Han® EE Quick Lock module	Han E® Protected module	Han® EEE module	Han® ES module
Number of contacts	8	6	20	5
Modules	Quick Lock termination 	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	0.14 ... 4 mm ²	0.14 ... 4 mm ²	0.14 ... 2.5 mm ²
Series	Han DD® module	Han DD® Quick Lock module	Han® DDD module	Han® High Density module
Number of contacts	12	12	17	25
Modules	Crimp terminal 	Quick Lock termination 	Crimp terminal 	Crimp terminal 
Rated current	10 A	10 A	10 A	4 A
Rated voltage	250 V	250 V	160 V	50 V
Wire gauge	0.14 ... 2.5 mm ²	0.25 ... 1.5 mm ²	0.14 ... 2.5 mm ²	0.08 ... 0.52 mm ²
Series	Han® D-Sub module			
Number of contacts	9			
Modules	Crimp terminal 			
Rated current	5 A			
Rated voltage	50 V			
Wire gauge	0.08 ... 0.52 mm ²			

Series	Han® USB module	Han® FireWire module	Han® RJ45 module	Han® GigaBit module
Number of contacts	4	6	8	8
Modules	USB 2.0	IEEE 1394	Ethernet Cat. 6	Ethernet Cat. 6

Series	Han-Quintax® module				Han® Multi module	
Number of contacts	2					
Modules						
Contacts	Han-Quintax® contact 4 + shielding 	High Density Quintax contact 8 + shielding 	Han D® Coax contact 75 Ω 1 + shielding 75 Ω	Han E® Coax contact 50 Ω 1 + shielding 50 Ω	F.O. contact 	Coaxial contact 50 Ω RG 174 75 Ω RG 179 50 Ω RG 58
					Multimode F.O. HCS®*/PCF F.O. 1 mm POF	

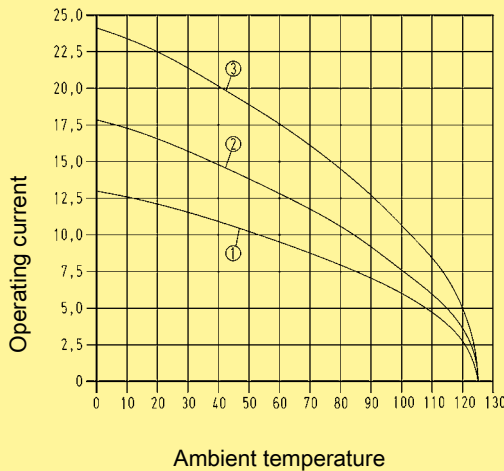
Features

- Snap-in assembly from mating side and from termination side
- Wiring with male and female contacts
- Finger safe design
- Fast and tool-less assembly

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



- ① wire gauge: 1.5 mm²
- ② wire gauge: 2.5 mm²
- ③ wire gauge: 4 mm²

Technical characteristics

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

Electrical data acc. to EN 61 984	16 A 500 V 6 kV 3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 690 V 8 kV 2
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥500

Contacts

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

Number of contacts

25



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<p>Han-Yellock® Monoblock 30</p> <p>Order crimp contacts separately suitable for hoods/housings size 30</p> <p>ATTENTION! It is not possible to use 2 monoblocks 30 in the Han-Yellock® 60 series!</p>	11 05 325 3001	11 05 325 3101		

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm																											
		Male contact	Female contact																													
<p>Han-Yellock® crimp contacts</p> <p>Han-Yellock® TC20</p> <p>silver plated</p>	<p>0.14-0.37</p> <p>0.5</p> <p>0.75</p> <p>1</p> <p>1.5</p> <p>2.5</p> <p>3</p> <p>4</p>	<p>11 05 000 6101</p> <p>11 05 000 6102</p> <p>11 05 000 6103</p> <p>11 05 000 6104</p> <p>11 05 000 6105</p> <p>11 05 000 6106</p> <p>11 05 000 6107</p> <p>11 05 000 6108</p>	<p>11 05 000 6201</p> <p>11 05 000 6202</p> <p>11 05 000 6203</p> <p>11 05 000 6204</p> <p>11 05 000 6205</p> <p>11 05 000 6206</p> <p>11 05 000 6207</p> <p>11 05 000 6208</p>		<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37</td> <td>mm² AWG 26-22</td> <td>6.5 mm</td> </tr> <tr> <td>0.5</td> <td>mm² AWG 20</td> <td>6.5 mm</td> </tr> <tr> <td>0.75</td> <td>mm² AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1</td> <td>mm² AWG 18</td> <td>6.5 mm</td> </tr> <tr> <td>1.5</td> <td>mm² AWG 16</td> <td>6.5 mm</td> </tr> <tr> <td>2.5</td> <td>mm² AWG 14</td> <td>6.5 mm</td> </tr> <tr> <td>3</td> <td>mm² AWG 12</td> <td>6.5 mm</td> </tr> <tr> <td>4</td> <td>mm² 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
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<p>Removal tool for crimp contacts</p>		09 99 000 0319	09 99 000 0319																													

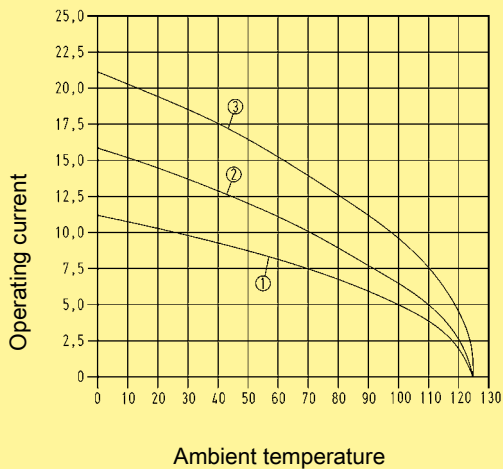
Features

- Snap-in assembly from mating side and from termination side
- Wiring with male and female contacts
- Finger safe design
- Fast and tool-less assembly

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



- ① wire gauge: 1.5 mm²
- ② wire gauge: 2.5 mm²
- ③ wire gauge: 4 mm²

Technical characteristics

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

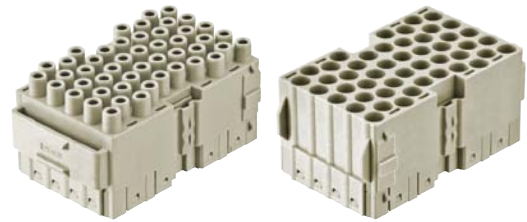
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Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

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

Number of contacts


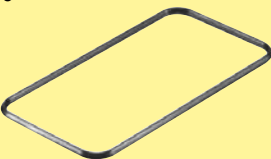
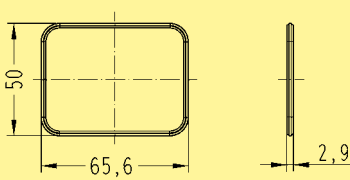
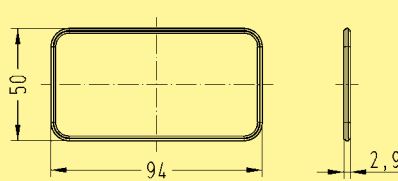


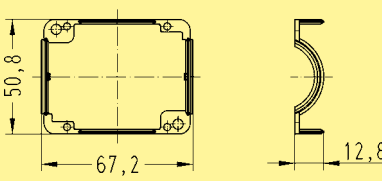
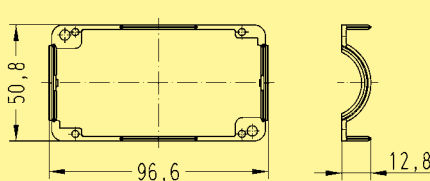
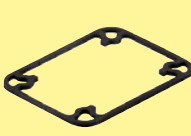
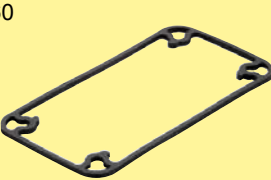
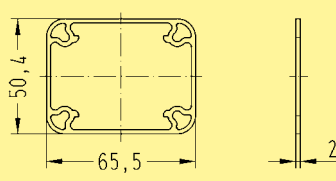
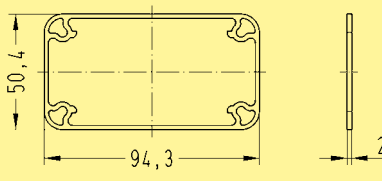
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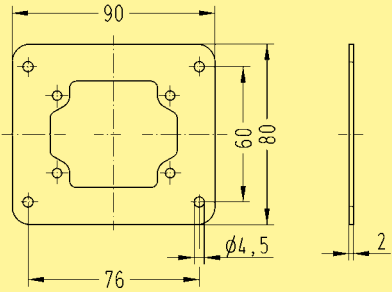
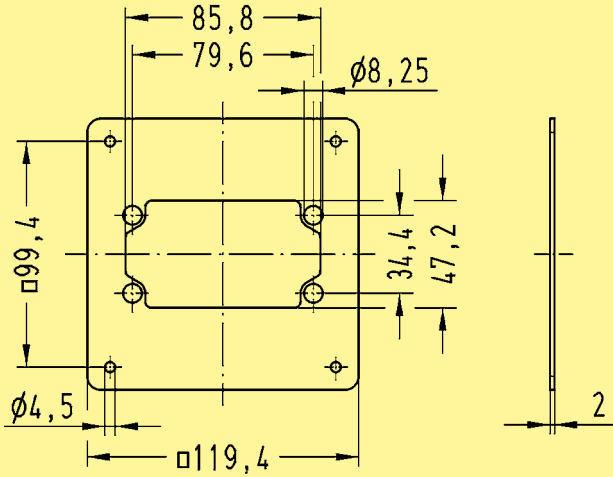


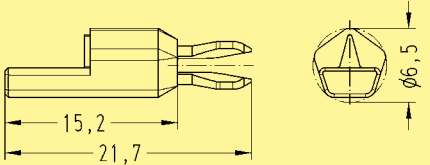
Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Han-Yellock® Monoblock 60 Order crimp contacts separately suitable for hoods/housings size 60	11 05 648 3001	11 05 648 3101		

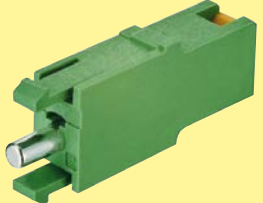
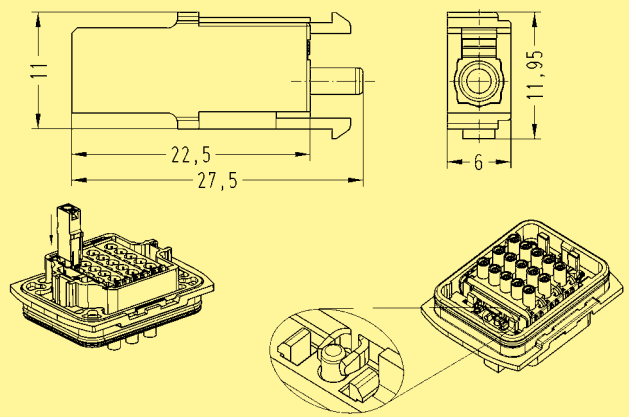


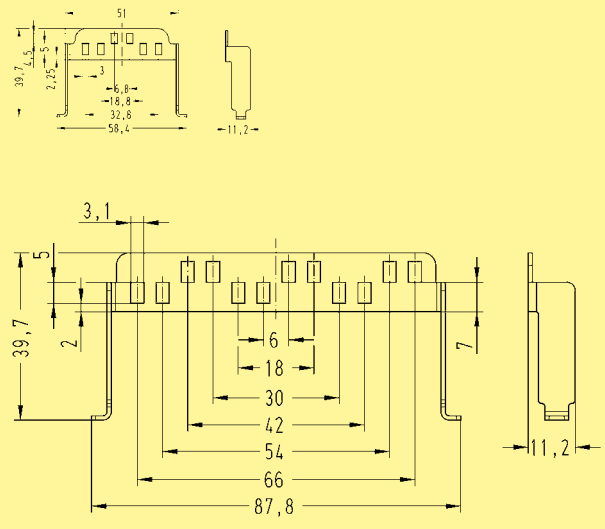
Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm																											
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Han-Yellock® crimp contacts Han-Yellock® TC20 silver plated 	0.14-0.37 0.5 0.75 1 1.5 2.5 3 4	11 05 000 6101 11 05 000 6102 11 05 000 6103 11 05 000 6104 11 05 000 6105 11 05 000 6106 11 05 000 6107 11 05 000 6108	11 05 000 6201 11 05 000 6202 11 05 000 6203 11 05 000 6204 11 05 000 6205 11 05 000 6206 11 05 000 6207 11 05 000 6208																													
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Removal tool for crimp contacts		09 99 000 0319	09 99 000 0319	
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Identification	Part number	Drawing	Dimensions in mm
<p>Han-Yellock® Profile seal</p> <p>for Han-Yellock® 30</p>  <p>for Han-Yellock® 60</p> 	<p>11 00 300 9501</p> <p>11 00 600 9501</p>	 	
<p>Han-Yellock® Seal for carrier hoods</p> <p>for Han-Yellock® 30</p>  <p>for Han-Yellock® 60</p> 	<p>11 00 300 9502</p> <p>11 00 600 9502</p>	 	
<p>Han-Yellock® Gasket</p> <p>for Han-Yellock® 30</p>  <p>for Han-Yellock® 60</p> 	<p>11 00 300 9503</p> <p>11 00 600 9503</p>	 	

Stock items in bold type

Identification	Part number	Drawing	Dimensions in mm
<p>Han-Yellock® Adapter plate</p> <p>for Han-Yellock® 30</p>  <p>circular 68 mm punch for Han-Yellock® panel cut out</p> <p>for Han-Yellock® 60</p> 	<p>11 00 300 9601</p> <p>11 00 600 9601</p>	 	
<p>Han-Yellock® Identification stickers</p> 	<p>11 00 000 9601</p>		
<p>Han-Yellock® Coding pins</p> <p>Set of 8 coding pins</p> 	<p>11 00 000 9501</p>		

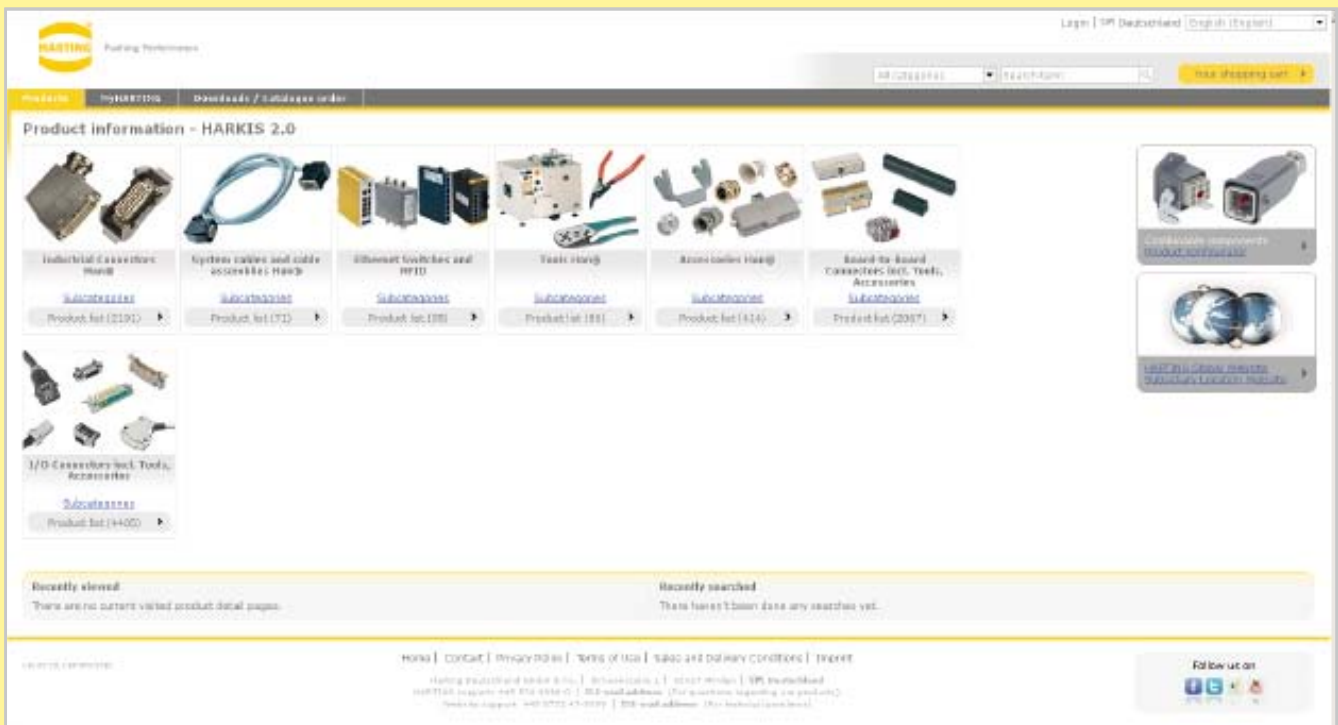
Identification	Part number	Drawing	Dimensions in mm
<p>Han-Yellok® PE contact chamber with Quick Lock termination</p> <p>Wire gauge 0.5 ... 2.5 mm² AWG 20 ... 14 Stripping length 10 mm</p> 	<p>11 05 001 2601</p>		
<p>Han-Yellok® Ground terminal</p> <p>for Han-Yellok® 30</p>  <p>for Han-Yellok® 60</p> 	<p>11 12 300 5201</p> <p>11 12 600 5201</p>		

Identification	Part number	Drawing	Dimensions in mm
BUCHANAN crimping tool	09 99 000 0001	Wire gauge 0.14 ... 4 mm ²	
Locator Han-Yellock®	09 99 000 0342	Wire gauge	
Multiple crimping tool depth adjustment gauge	09 99 000 0379	Wire gauge 0.14 ...0.37 mm ² Ø 1.00 0.5 ...1.0 mm ² Ø 1.55 1.5 ...2.5 mm ² Ø 1.80 3.0 ...4.0 mm ² Ø 2.00	
HARTING crimping tool with locator for Han D®, Han E®, Han® C	09 99 000 0110	Wire gauge 0.5 ... 4 mm ²	
Locator Han-Yellock®	09 99 000 0341		
HARTING Service crimping tool with locator for Han D®, Han E®,	09 99 000 0021	Wire gauge 0.5 ... 2.5 mm ²	
Locator Han-Yellock®	09 99 000 0343		
Removal tool for Han-Yellock® modules and frames Thermoplastic	11 99 000 0001		
Metal	11 99 000 0002		

Identification	Part number	Drawing	Dimensions in mm
<p>Removal tool for crimp contacts</p>	<p>09 99 000 0319</p>		<p>A 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</p> <p style="padding-left: 40px;">steel: ≤ 2.5 mm stainless steel: ≤ 2 mm</p> <p>for hydraulic pump</p> <p style="padding-left: 40px;">punch force: ≥ 60 kN thread: 3/4" UNF</p> <p>for Han-Yellock® 30</p> <p>for Han-Yellock® 60</p>	<p>11 99 300 0001</p> <p>11 99 600 0001</p>		

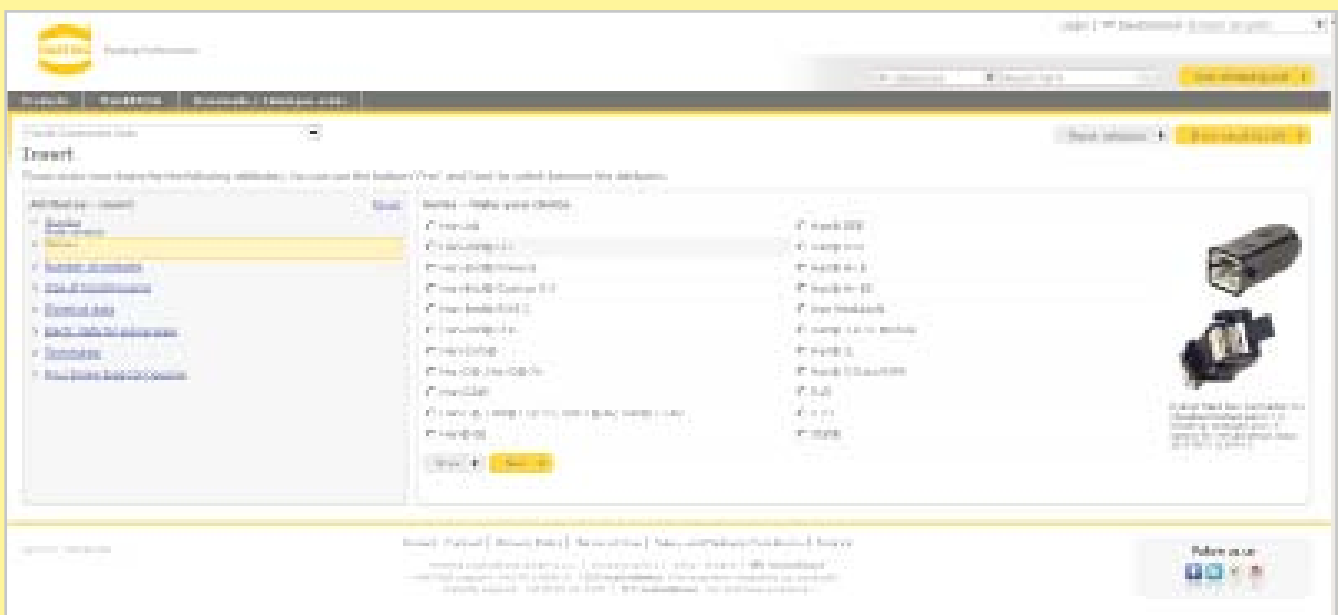
Part number	Page	Part number	Page	Part number	Page
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09 12 001 3071	19	09 21 007 3131	17	11 05 105 2804	33
09 12 001 3091	19			11 05 105 2805	33
		09 36 008 2632	17	11 05 105 3001	29
09 12 002 2651	17	09 36 008 2732	17		
09 12 002 2652	18	09 36 008 3001	17	11 05 325 3001	39
09 12 002 2653	17	09 36 008 3101	17	11 05 325 3101	39
09 12 002 2654	18				
09 12 002 2751	17	09 70 006 2615	18	11 05 648 3001	41
09 12 002 2752	18	09 70 006 2616	18	11 05 648 3101	41
09 12 002 2753	17	09 70 006 2812	18		
09 12 002 2754	18	09 70 006 2813	18	11 12 300 0100	24
09 12 002 3051	18			11 12 300 0110	24
09 12 002 3052	18	09 99 000 0001	45	11 12 300 0301	25
09 12 002 3151	18	09 99 000 0021	45	11 12 300 0302	25
09 12 002 3152	18	09 99 000 0110	45	11 12 300 1200	26
		09 99 000 0319	29, 39, 41, 46	11 12 300 1201	26
09 12 003 2770	20	09 99 000 0341	45	11 12 300 1202	26
09 12 003 2774	19	09 99 000 0342	45	11 12 300 1205	26
09 12 003 2776	19	09 99 000 0343	45	11 12 300 1206	26
09 12 003 3011	19	09 99 000 0379	45	11 12 300 1400	23
09 12 003 3021	19			11 12 300 1401	23
09 12 003 3031	19			11 12 300 1402	23
		11 00 000 9501	43	11 12 300 1500	23
09 12 004 2601	20	11 00 000 9509	31	11 12 300 1501	23
09 12 004 2611	20	11 00 000 9510	31	11 12 300 1502	23
09 12 004 2711	20	11 00 000 9601	43	11 12 300 1510	23
				11 12 300 1600	24
09 12 005 2633	18	11 00 200 0101	35	11 12 300 1601	24
09 12 005 2733	18	11 00 200 0301	35	11 12 300 1602	24
09 12 005 3001	18			11 12 300 5201	44
09 12 005 3101	18	11 00 300 0101	35	11 12 300 5401	26
		11 00 300 0301	35	11 12 300 5451	24
09 12 006 2611	19	11 00 300 9501	42		
09 12 006 2694	19	11 00 300 9502	42	11 12 600 0100	24
09 12 006 2695	19	11 00 300 9503	42	11 12 600 0110	24
09 12 006 2701	19	11 00 300 9601	43	11 12 600 0301	25
09 12 006 2794	19			11 12 600 0302	25
09 12 006 2795	19	11 00 600 0101	35	11 12 600 1202	26
09 12 006 3001	19	11 00 600 0301	35	11 12 600 1203	26
09 12 006 3111	19	11 00 600 9501	42	11 12 600 1206	26
		11 00 600 9502	42	11 12 600 1207	26
09 12 007 3001	18	11 00 600 9503	42	11 12 600 1401	23
09 12 007 3101	18	11 00 600 9601	43	11 12 600 1402	23
				11 12 600 1403	23
09 12 012 3001	18	11 05 000 6101	29, 39, 41	11 12 600 1411	23
09 12 012 3101	18	11 05 000 6102	29, 39, 41	11 12 600 1415	23
		11 05 000 6103	29, 39, 41	11 12 600 1501	23
09 15 003 3001	19	11 05 000 6104	29, 39, 41	11 12 600 1502	23
09 15 003 3101	19	11 05 000 6105	29, 39, 41	11 12 600 1503	23
		11 05 000 6106	29, 39, 41	11 12 600 1503	23
09 20 003 2611	17	11 05 000 6107	29, 39, 41	11 12 600 5201	44
09 20 003 2633	17	11 05 000 6108	29, 39, 41	11 12 600 5401	26
09 20 003 2634	17	11 05 000 6108	29, 39, 41	11 12 600 5451	24
09 20 003 2711	17	11 05 000 6201	39, 41		
09 20 003 2733	17	11 05 000 6202	39, 41	11 20 003 0300	16
09 20 003 2734	17	11 05 000 6203	39, 41	11 20 003 0800	16
		11 05 000 6204	39, 41	11 20 003 1400	15
09 20 004 2611	17	11 05 000 6205	39, 41	11 20 003 1401	15
09 20 004 2633	17	11 05 000 6206	39, 41	11 20 003 1600	15
09 20 004 2634	17	11 05 000 6207	39, 41	11 20 003 1601	15
09 20 004 2711	17	11 05 000 6208	39, 41		
09 20 004 2733	17			11 99 000 0001	45
09 20 004 2734	17	11 05 001 2601	44	11 99 000 0002	45
09 20 004 4701	20				
09 20 004 4711	20	11 05 105 2633	31	11 99 300 0001	46
		11 05 105 2634	31	11 99 600 0001	46
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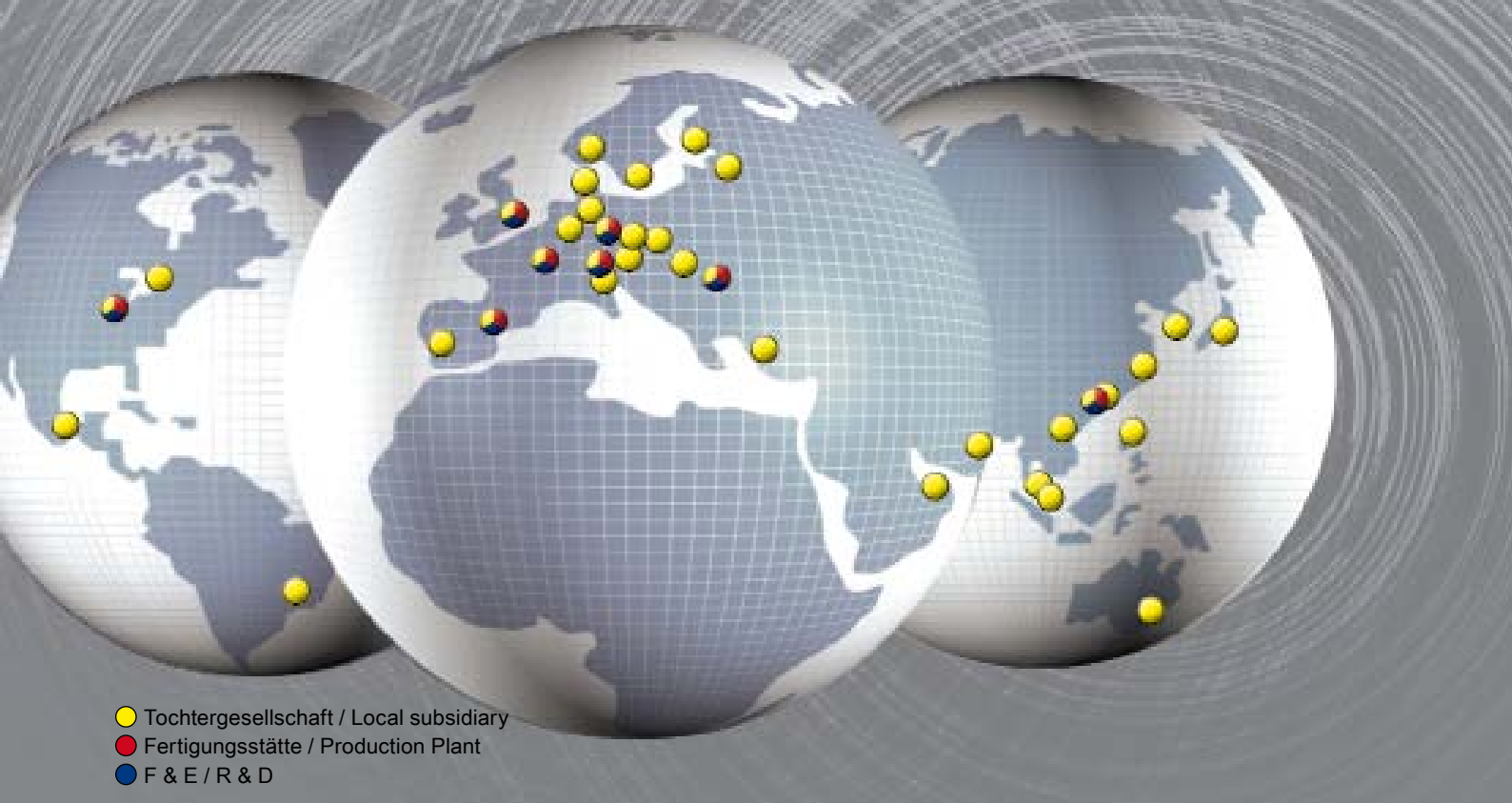
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