



Pushing Performance



People | Power | Partnership

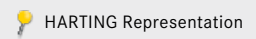
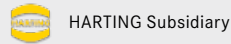
HARTING Industrial Han® Short Form Catalogue

Transforming customer wishes into concrete solutions



The HARTING Technology Group is skilled in the fields of electrical, electronic and optical connection, transmission and networking technology, 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/data-networking applications, including, for example, mechanical engineering, rail technology, wind energy plants, factory automation and the telecommunications sector. In addition, HARTING also produces electro-magnetic components for the automobile industry and offers solutions in the field of housing technology and shop systems.

The HARTING Group currently comprises 53 sales companies and production plants worldwide employing a total of about 4,200 staff.



We aspire to top performance.

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

Wherever our customers are, we're there.

Increasing industrialization is creating growing markets that are characterized by widely diverging demands and requirements. What these markets all share in common is the quest for perfection, increasingly efficient processes and reliable technologies. **HARTING** is providing these technologies – in Europe, the Americas and Asia. In order to implement customer requirements in the best possible manner, the **HARTING** professionals at our international subsidiaries engage in up-close, partnership-based interaction with our customers, right from the very early product development phase.

Our on-site staff 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 offer our customers the best possible solutions, on request **HARTING** contributes a great deal more and is tightly integrated into the value-creation process.

From ready-assembled cables through to control racks or ready-to-go control desks. Our aim is to generate maximum benefit for our customers – with no compromises!

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 towards new requirements, which is why **HARTING** is the first company 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 sophisticated network systems. Over the course of many years of close, trust-based cooperation with its customers, the **HARTING** Technology Group has become one of the leading specialists globally for connector technology. We offer individual customers specific and innovative solutions that go beyond the basic standard functionalities. These tailored solutions deliver sustained results, ensure investment security and enable customers to achieve significant added value.

Opting for HARTING opens up an innovative, complex world of concepts and ideas.

In order to develop and produce connectivity and network solutions serving an exceptionally wide range of connector applications in a professional and cost-effective manner, **HARTING** not only commands the full array of conventional tools and basic technologies. Above and beyond these capabilities, **HARTING** is constantly harnessing and refining its broad base of knowledge and experience to create new solutions that also ensure continuity. To secure its lead in know-how, **HARTING** draws on a wealth of sources from its in-house research and applications.

Salient examples of these sources of innovative knowledge include microstructure technologies, 3D design and connection technolo-

gy, high-temperature and ultrahigh-frequency applications that are finding use in telecommunications and 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 and stainless steel.

HARTING overcomes technological limitations.

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 not only components, but comprehensive solutions attuned to individual customer requirements and preferences. The range of cost-effective solutions covers ready-to-use cable configurations, completely assembled backplanes and board system carriers, as well as fully wired and tested control panels.

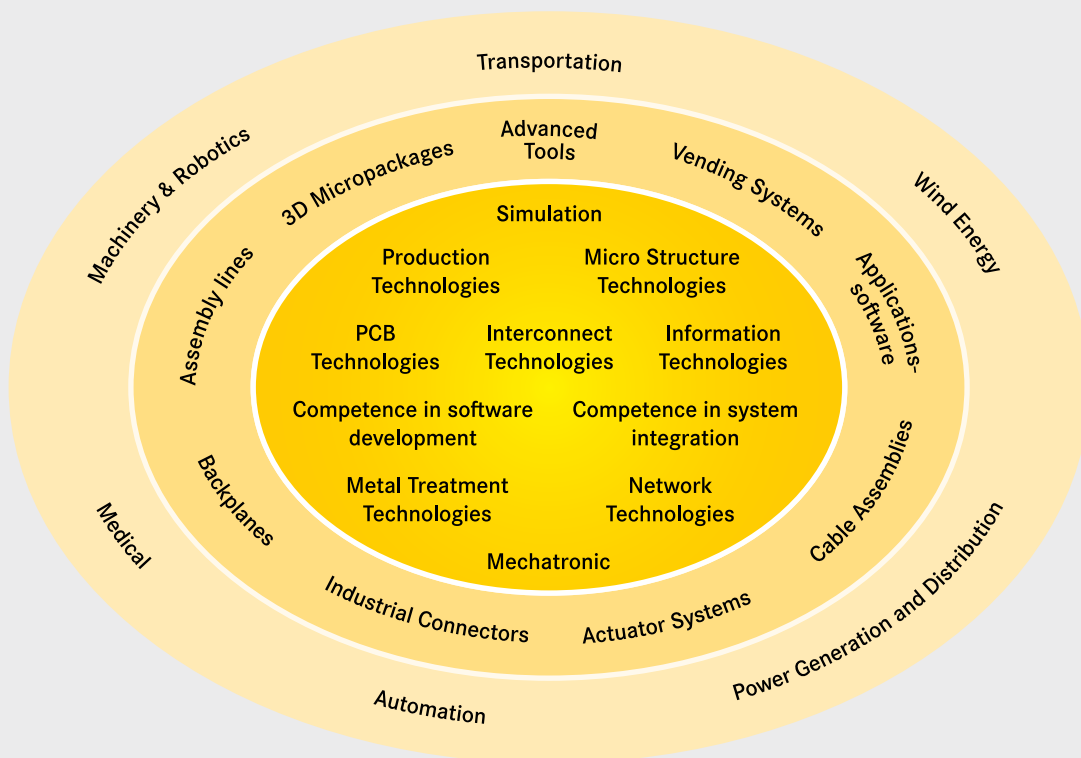
In order to ensure the future-proof design of RF and EMC-compatible interface solutions, the central **HARTING** laboratory (certified to EN 45001) employs simulation tools, as well as experimental, testing and diagnostics facilities all the way to scanning electron microscopes. In addition to product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



HARTING's knowledge is practical know-how that generates synergy effects.

HARTING commands decades of experience with regard to the applications conditions involved in connections in telecommunications, computer, network and medical technologies, as well as industrial automation technologies, e.g. in the mechanical engineering and plant engineering areas, in addition to the power generation industry and the transportation sector. **HARTING** is highly

conversant with the specific application areas in all of these technology fields. In every solution approach, the key focus is on the application. In this context, uncompromising, superior quality is our hallmark. Every new solution found invariably flows 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. **HARTING** is synergy in action.



Economic and Reliable Connections

Specifications

DIN EN 60664-1 (VDE 0110-1)
Principles,
requirements and tests

DIN EN 61984 (VDE 0627)
Connectors,
Safety requirements and tests

Note

The connectors included in this catalogue should not be coupled or decoupled under electrical load unless otherwise stated.

The provision of protection against electric shock is the responsibility of the user. Protection can be achieved by the use of HARTING hoods and housings coupled with/or alternatively appropriate installation methods provided by the user.

The female connector in a HARTING hood or housing offers finger safe protection according to relevant standards for the mating face, even in the unmated condition, unless otherwise stated.

Connectors of the same or different series being mounted side by side may be protected against incorrect mating by the use of coding options.

Standards

DIN EN 175301-801

Approvals



UL File No. E235076 und E318390
(www.ul.com)



CSA File No. 18753



GL File No. 61 754 - 14 HH



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

General information

It is the customer's responsibility to check whether the components illustrated in this catalogue also comply with different regulations from those stated in special fields of applications.

We reserve the right to modify designs or substance of content in order to improve quality, keep pace with technological advancement or meet particular requirements in production. This information describes the components but should not be considered as a guarantee of certain properties.

No part of this catalogue may be reproduced in any form (print, photocopy, microfilm or any other process) or processed, duplicated or distributed by means of electronic systems without the prior written consent of HARTING Electric GmbH & Co. KG, Espelkamp. We are bound by the German version only. We are bound by the German version only.

Terminations

- Screw locking
- Crimp termination
- Cage-clamp termination
- Wrap termination
- Solder termination
- Axial screw locking
- Rapid termination
- IDC termination
- Axial cage clamp technique

Inserts

- Leading protective ground
- Polarised for correct mating
- Interchangeability of male and female inserts in hoods and housings
- Captive fixing screws
- Can be used with hoods and housings, or for rack and panel applications

Hoods/Housings

- Standard Hoods/Housings
- Hoods/Housings for harsh environmental requirements
- Hoods/Housings for intrinsically safe plant
- Degree of protection IP65
- Electrical connection with protective ground
- High mechanical strength and vibration-resistance ensured by locking levers
- Spring-loaded covers in shockproof thermoplastic or metal covers, both lockable

Accessories

- Extensive range of cable protection and sealing accessories
- Protective covers available
- Coding options for incorrect mating protection

For "non standard applications" we can manufacture designs to match your requirements.

Please discuss requirements with us.

HARTING components help you to construct top quality products – economically and in line with market requirements.

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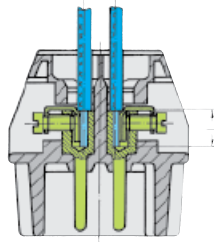
Mapping Hoods/Housings – Inserts



Inserts	Series											
	Han® 3 A; M; EMC; HPR; Inox; Yellock 10; Han® F+B	Han-Compact®	Han® 10 A; EMC	Han® 16 A; EMC	Han® 32 A	Han® 6 B; M; EMC; HPR	Han® 10 B; M; EMC; HPR	Han® 16 B; M; EMC; HPR	Han® 24 B; M; EMC; HPR	Han® 32 B	Han® 48 B	
Han® 3 A; Han® 4 A; Han® 7 D*; Han® 8 D Han-Brid®; Han® High Density Han® Q 2/0, Han® Q 3/0, Han® Q 4/0; Han® Q 5/0; Han® Q 7/0; Han® Q 12/0	X											
Han® Q 4/2; Han® Q 8/0 ; Han® Q 8/10; Han® Q 17/0		X										
Han® 10 A Han® 15 D Han-Modular® with 1 module			X									
Han® 16 A Han® 25 D				X								
Han® 32 A (2x Han® 16 A) Han® 50 D (2x Han® 25 D)					X							
Han® 6 E; Han® 6 ES; Han® 6 ES Press; Han® 6 ESS; Han® 6 E AV Han® 10 EE Han® 24 DD Han-Modular® with 2 modules						X						
Han® 10 E; Han® 10 ES; Han® 10 ES Press; Han® 10 ESS; Han® 10 E AV Han® 18 EE Han® 42 DD Han® K 8/24 Han-Modular® with 3 modules							X					
Han® 16 E; Han® 16 ES; Han® 16 ES Press; Han® 16 ESS; Han® 16 E AV Han® 32 EE; Han® 40 EEE; Han® 40 D; Han® 72 DD Han® 6 HsB Han® K 4/0; Han® K4/2; Han® K12/2; Han® K 6/12; Han® K 6/36 Han-Modular® with 4 modules								X				
Han® 24 E; Han® 24 ES; Han® 24 ES Press; Han® 24 ESS; Han® 24 E AV Han® 46 EE; Han® 64 EEE Han® 64 D; Han® 108 DD Han® K 4/8; Han® K 6/6; Han® K 8/0 Han-Modular® with 6 modules									X			
Han® 32 E; Han® 32 ES; Han® 32 ES Press; Han® 32 ESS; Han® 32 E AV (2x Han® 16 E / ES / ES Press / ESS / E AV) Han® 64 EE (2x Han® 32 EE) Han® 144 DD (2x Han® 72 DD) Han® 12 HsB (2x Han® 6 HsB) Han-Modular® with 2x 4 modules										X		
Han® 48 E; Han® 48 ES; Han® 48 ES Press; Han® 48 ESS (2x Han® 24 E / ES / ES Press / ESS / E AV) Han® 92 EE (2x Han® 46 EE) Han® 216 DD (2x Han® 108 DD) Han-Modular® with 2x 6 modules											X	

Screw locking

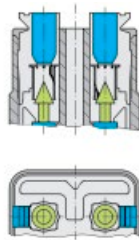
Han A®
Han E®
Han-Com®
Han Hv E®
Han® HsB
Staf®
Han-Modular®



Inserts	Max. cross-section / wire gauge		Stripping length l (mm)
	(mm²)	AWG	
Han® 3 A; Han® 4 A	1.5	16	4.5
Han E®, Han® K; Han A®, Han HvE®	2.5	14	7.0
Han® HsB	6.0	10	11.5
Staf®	1.5	16	4.0
Han® K 4/x (80 A)	16.0	5	14.0
Han E® screw module	2.5	14	7.0

Quick Lock termination

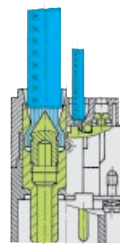
Han A®
Han® Q
Han-Modular®
Han D®



Inserts	Max. cross-section / wire gauge		Stripping length l (mm)
	(mm²)	AWG	
Han A®, Han® Q; Han-Modular® EE	0.5 ... 2.5	20 ... 14	10
Han A®, Han D®	0.25 ... 1.5	24 ... 16	8

Axial screw locking

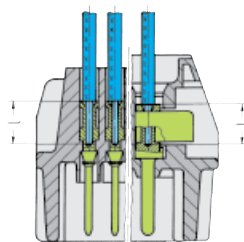
Han® K
Han-Modular®



Inserts	Geometric cross-section / wire gauge		Stripping length l (mm)
	(mm²)	AWG	
Han® K 6/12 (40 A)	2.5 ... 10	13 ... 7	8 ... 9
Han® K 4/4 (70 A)	6.0 ... 16	8 ... 6	11
Han® K 6/6 (100 A)	16.0 ... 35	5 ... 2	13 ... 14
Han® 40 A module	2.5 ... 10	14 ... 8	5 ... 11
Han® 70 A module	6.0 ... 22	8 ... 4	11 ... 12.5
Han® 100 A module	10.0 ... 38	6 ... 2	13
Han® 200 A module	25.0 ... 70	2 ... 0	16
Han® C Axial module	2.5 ... 10	14 ... 8	5 ... 11

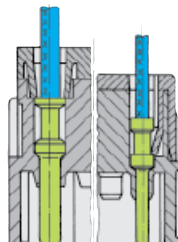
Crimp termination

Han DD®
Han D®
R 15
Han-Modular® (10 A)



Han E®
Han A®
Han Hv E®

Han-Com®
Han-Modular® (40 A)



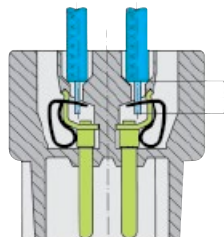
Han E®
Han A®
Han Hv E®
Han® EE
Han-Modular® (16 A)
Han® EEE

Max. cross-section / wire gauge		Internal diameter Ø (mm)	Stripping length l (mm)		
(mm²)	AWG		Han DD® Han D® R 15 Han-Modular® (10 A)	Han E® Han A® Han Hv E®	Han® C
0.14 ... 0.37	26 ... 22	0.9	8	–	–
0.5	20	1.15	8	7.5	–
0.75	18	1.3	8	7.5	–
1.00	18	1.45	8	7.5	–
1.5	16	1.75	8	7.5	9
2.5	14	2.25	6	7.5	9
4.0	12	2.85	–	7.5	9.6
6.0	10	3.5	–	–	9.6
10.0	8	4.1	–	–	15 *

* ... stripping length 18 mm for cable 6.4 ... 7.5 mm

Cage clamp termination

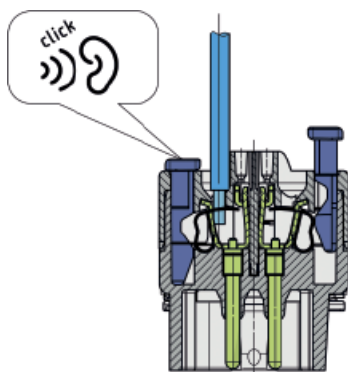
Han® ES
 Han® Hv ES
 Han® ESS
 Han® Com
 Han-Modular®







Inserts	max. cross-section / wire gauge		Stripping length l (mm)
	(mm ²)	AWG	
Han® ES; Han® Hv ES	0.14 ... 2.5	26 ... 14	7 ... 9
Han® ESS	0.14 ... 2.5	26 ... 14	9 ... 11
Han® K 4/4	0.14 ... 2.5	26 ... 14	7 ... 9
Han® ES module	0.14 ... 2.5	26 ... 14	7 ... 9




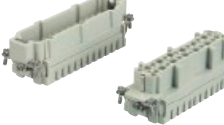
Cage clamp termination

Han® ES Press



Inserts	max. cross-section / wire gauge		Stripping length l (mm)
	(mm ²)	AWG	
Han® ES Press	0.14 ... 2.5	26 ... 14	9 ... 11

Series	Han E®			
Number of contacts	6 + ⊕	10 + ⊕	16 + ⊕	24 + ⊕
Termination type	Screw locking	Screw locking	Screw locking	Screw locking
Size	Han® 6 B	Han® 10 B	Han® 16 B	Han® 24 B
				
Electrical data acc. to DIN EN 61984 UL/CSA	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V
Cross-section	1 ... 2.5 mm ²	1 ... 2.5 mm ²	1 ... 2.5 mm ²	1 ... 2.5 mm ²
Male insert (M)	09 33 006 2601	09 33 010 2601	09 33 016 2601	09 33 024 2601
Female insert (F)	09 33 006 2701	09 33 010 2701	09 33 016 2701	09 33 024 2701

Series	Han E®			
Number of contacts	6 + ⊕	10 + ⊕	16 + ⊕	24 + ⊕
Termination type	Crimp termination	Crimp termination	Crimp termination	Crimp termination
Size	Han® 6 B	Han® 10 B	Han® 16 B	Han® 24 B
				
Electrical data acc. to DIN EN 61984 UL/CSA	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V
Cross-section	0.5 ... 4 mm ²	0.5 ... 4 mm ²	0.5 ... 4 mm ²	0.5 ... 4 mm ²
Male insert (M)	09 33 006 2602	09 33 010 2602	09 33 016 2602	09 33 024 2602
Female insert (F)	09 33 006 2702	09 33 010 2702	09 33 016 2702	09 33 024 2702

Series	Han® ES			
Number of contacts	6 + ⊕	10 + ⊕	16 + ⊕	24 + ⊕
Termination type	Cage clamp termination			
Size	Han® 6 B			
Electrical data acc. to DIN EN 61984 UL/CSA	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V
Cross-section	0.14 ... 2.5 mm²			
Male insert (M)	09 33 006 2616	09 33 010 2616	09 33 016 2616	09 33 024 2616
Female insert (F)	09 33 006 2716	09 33 010 2716	09 33 016 2716	09 33 024 2716

Series	Han® ES Press			
Number of contacts	6 + ⊕	10 + ⊕	16 + ⊕	24 + ⊕
Termination type	Cage clamp termination			
Size	Han® 6 B			
Electrical data acc. to DIN EN 61984 UL/CSA	16 A 500 V 6 kV 3 500 V	16 A 500 V 6 kV 3 500 V	16 A 500 V 6 kV 3 500 V	16 A 500 V 6 kV 3 500 V
Cross-section	0.14 ... 2.5 mm²			
Male insert (M)	09 33 006 2648	09 33 010 2648	09 33 016 2648	09 33 024 2648
Female insert (F)	09 33 006 2748	09 33 010 2748	09 33 016 2748	09 33 024 2748

	Plug-in jumper 2 x 1	Plug-in jumper 1 x 2	Plug-in jumper 1 x 3	Plug-in jumper 1 x 5	Plug-in jumper 1 x 8	Plug-in jumper 1 x 12
red	09 33 000 9820	09 33 000 9830	09 33 000 9831	09 33 000 9833	09 33 000 9836	09 33 000 9840
blue	09 33 000 9821	09 33 000 9841	09 33 000 9842	09 33 000 9844	09 33 000 9847	09 33 000 9851
black	09 33 000 9822	09 33 000 9852	09 33 000 9853	09 33 000 9855	09 33 000 9858	09 33 000 9862

Series	Han® ESS			
Number of contacts	6 + ⊕	10 + ⊕	16 + ⊕	24 + ⊕
Termination type	Cage clamp termination	Cage clamp termination	Cage clamp termination	Cage clamp termination
Size	Han® 6 B	Han® 10 B	Han® 16 B	Han® 24 B
Electrical data acc. to DIN EN 61984 UL/CSA	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V
Cross-section	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 33 006 2672	09 33 010 2672	09 33 016 2672	09 33 024 2672
Female insert (F)	09 33 006 2772	09 33 010 2772	09 33 016 2772	09 33 024 2772





Series	Han® EE			
Number of contacts	10 + ⊕	18 + ⊕	32 + ⊕	46 + ⊕
Termination type	Crimp termination	Crimp termination	Crimp termination	Crimp termination
Size	Han® 6 B	Han® 10 B	Han® 16 B	Han® 24 B
Electrical data acc. to DIN EN 61984 UL/CSA	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V
Cross-section	0.5 ... 4 mm ²	0.5 ... 4 mm ²	0.5 ... 4 mm ²	0.5 ... 4 mm ²
Male insert (M)	09 32 010 3001	09 32 018 3001	09 32 032 3001	09 32 046 3001
Female insert (F)	09 32 010 3101	09 32 018 3101	09 32 032 3101	09 32 046 3101




Series	Han® EEE			
Number of contacts	40 + ⊕	64 + ⊕		
Termination type	Crimp termination	Crimp termination		
Size	Han® 16 B	Han® 24 B		
Electrical data acc. to DIN EN 61984 UL/CSA	16 A 500 V 6 kV 3 600 V	16 A 500 V 6 kV 3 600 V		
Cross-section	0.14 ... 4 mm ²	0.14 ... 4 mm ²		
Male insert (M)	09 32 040 3001	09 32 064 3001		
Female insert (F)	09 32 040 3101	09 32 064 3101		




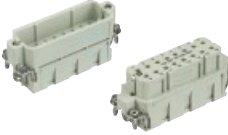
Series	Han D®			
Number of contacts	7 + ⊕	7 + ⊕	8	8
Termination type	Crimp termination	Quick Lock termination	Crimp termination	Quick Lock termination
Size	Han® 3 A*	Han® 3 A*	Han® 3 A	Han® 3 A
Electrical data acc. to DIN EN 61984 UL/CSA	10 A 250 V 4 kV 3 600 V	10 A 250 V 4 kV 3 600 V	10 A 50 V 4 kV 3 50 V	10 A 50 V 0,8 kV 3 50 V
Cross-section	0.14 ... 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 21 007 3031	09 21 007 2632	09 36 008 3001	09 36 008 2632
Female insert (F)	09 21 007 3131	09 21 007 2732	09 36 008 3101	09 36 008 2732

Series	Han D®			
Number of contacts	15 + ⊕	25 + ⊕	40 + ⊕	64 + ⊕
Termination type	Crimp termination	Crimp termination	Crimp termination	Crimp termination
Size	Han® 10 A	Han® 16 A	Han® 16 B	Han® 24 B
Electrical data acc. to DIN EN 61984 UL/CSA	10 A 250 V 4 kV 3 600 V	10 A 250 V 4 kV 3 600 V	10 A 250 V 4 kV 3 600 V	10 A 250 V 4 kV 3 600 V
Cross-section	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 21 015 3001	09 21 025 3001	09 21 040 3001	09 21 064 3001
Female insert (F)	09 21 015 3101	09 21 025 3101	09 21 040 3101	09 21 064 3101

Series	Han DD®			
Number of contacts	24 + ⊕	42 + ⊕	72 + ⊕	108 + ⊕
Termination type	Crimp termination	Crimp termination	Crimp termination	Crimp termination
Size	Han® 6 B	Han® 10 B	Han® 16 B	Han® 24 B
Electrical data acc. to DIN EN 61984 UL/CSA	10 A 250 V 4 kV 3 600 V	10 A 250 V 4 kV 3 600 V	10 A 250 V 4 kV 3 600 V	10 A 250 V 4 kV 3 600 V
Cross-section	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 16 024 3001	09 16 042 3001	09 16 072 3001	09 16 108 3001
Female insert (F)	09 16 024 3101	09 16 042 3101	09 16 072 3101	09 16 108 3101

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 type	Screw locking	Quick Lock termination	Quick Lock termination	Screw locking
Size	Han® 3 A 	Han® 3 A 	Han® 3 A 	Han® 3 A 
Rated current	10 A	10 A	10 A	10 A
Rated voltage	230/400 V	230/400 V	230/400 V	230/400 V
Cross-section	1 ... 1.5 mm ²	0.5 ... 2.5 mm ²	0.25 ... 1.5 mm ²	1 ... 1.5 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	
Number of contacts	4 + ⊕	4 + ⊕	6 + ⊕
Termination type	Quick Lock termination	Quick Lock termination	IDC termination
Size	Han® 3 A 	Han® 3 A 	Han® 3 A 
Rated current	10 A	10 A	10 A 230/400 V 4 kV 3
Rated voltage	230/400 V	230/400 V	600 V
Cross-section	0.5 ... 2.5 mm ²	0.25 ... 1.5 mm ²	0.75 ... 1.5 mm ²
Male insert (M)	09 20 004 2633	09 20 004 2634	09 20 003 0440
Female insert (F)	09 20 004 2733	09 20 004 2734	09 20 003 0445

Series	Han® 10 A	Han® 10 A	Han® 16 A	Han® 16 A
Number of contacts	10 + ⊕	10 + ⊕	16 + ⊕	16 + ⊕
Termination type	Screw locking	Crimp termination	Screw locking	Crimp termination
Size	Han® 10 A 	Han® 10 A 	Han® 16 A 	Han® 16 A 
Electrical data acc. to DIN EN 61984 UL/CSA	16 A 250 V 4 kV 3 600 V	16 A 250 V 4 kV 3 600 V	16 A 250 V 4 kV 3 600 V	16 A 250 V 4 kV 3 600 V
Cross-section	1 ... 2.5 mm ²	0.5 ... 4 mm ²	1 ... 2.5 mm ²	0.5 ... 4 mm ²
Male insert (M)	09 20 010 2612	09 20 010 3001	09 20 016 2612	09 20 016 3001
Female insert (F)	09 20 010 2812	09 20 010 3101	09 20 016 2812	09 20 016 3101












Series	Han-Com®			
Number of contacts	4/0 + ⊕	4/2 + ⊕	4/4 + ⊕	4/8 + ⊕
Termination type	Screw locking	Screw locking	Axial screw locking	Screw locking
Size	Han® 16 B	Han® 16 B	Han® 10 B	Han® 24 B
Electrical data acc. to DIN EN 61984				
Power contacts	80 A 830 V 8 kV 3	80 A 830 V 8 kV 3	63 A 690 V 6 kV 3	80 A 400 V 6 kV 3
Control contacts	–	16 A 400 V 6 kV 3	16 A 230 V 4 kV 3	16 A 400 V 6 kV 3
Cross-section Power contacts	1.5 ... 16 mm ²	1.5 ... 16 mm ²	6 ... 16 mm ²	1.5 ... 16 mm ²
Control contacts		0.5 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.5 ... 2.5 mm ²
Male insert (M)	09 38 006 2611	09 38 006 2601	09 38 008 2601	09 38 012 2601
Female insert (F)	09 38 006 2711	09 38 006 2701	09 38 008 2701	09 38 012 2701

Series	Han-Com®			
Number of contacts	6/6 + ⊕	6/12 + ⊕	8/0 + ⊕	8/24 + ⊕
Termination type	Axial screw locking	Axial screw locking	Axial screw locking	Crimp termination
Size	Han® 24 B	Han® 16 B	Han® 24 B	Han® 10 B
Electrical data acc. to DIN EN 61984				
Power contacts	100 A 690 V 8 kV 3	40 A 690 V 8 kV 3	100 A 690 V 8 kV 3	16 A 230/400 V 4 kV 3
Control contacts	16 A 400 V 6 kV 3	10 A 230/400 V 4 kV 3	–	10 A 160 V 2.5 kV 3
Cross-section Power contacts	16 ... 35 mm ²	2.5 ... 8 mm ²	10 ... 25 mm ²	0.5 ... 4 mm ²
Control contacts	0.2 ... 2.5 mm ²	0.2 ... 2.5 mm ²		0.14 ... 2.5 mm ²
Male insert (M)	09 38 012 2651	09 38 018 2601	09 38 008 2653	09 38 032 3001
Female insert (F)	09 38 012 2751	09 38 018 2701	09 38 008 2753	09 38 032 3101

Series	Han-Com®		Han® HsB
Number of contacts	12/2 + ⊕	6/36 + ⊕	6 + ⊕
Termination type	Crimp termination	Crimp termination	Screw locking
Size	Han® 16 B	Han® 16 B	Han® 16 B
Electrical data acc. to DIN EN 61984			
Power contacts	40 A 690 V 8 kV 3	40 A 690 V 8 kV 3	35 A 500 V 6 kV 3
Control contacts	10 A 250 V 4 kV 3	10 A 160 V 2.5 kV 3	
Cross-section Power contacts	1.5 ... 6 mm ²	1.5 ... 6 mm ²	1.5 ... 6 mm ²
Control contacts	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	
Male insert (M)	09 32 012 3001	09 38 042 3001	09 31 006 2601
Female insert (F)	09 32 012 3101	09 38 042 3101	09 31 006 2701

Inserts Han® Q for size Han® 3 A



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 type	Axial screw locking 	Axial screw locking 	Axial screw locking 	Axial screw locking 
Rated current	40 A	40 A	40 A	40 A
Rated voltage	400 V	830 V	400 V	830 V
Cross-section	4 ... 10 mm ²	4 ... 10 mm ²	2.5 ... 6 mm ²	2.5 ... 6 mm ²
Male insert (M)	09 12 002 2651	09 12 002 2652	09 12 002 2653	09 12 002 2654
Female insert (F)	09 12 002 2751	09 12 002 2752	09 12 002 2753	09 12 002 2754
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 type	Axial screw locking 	Axial screw locking 	Crimp termination 	Crimp termination 
Rated current	40 A	40 A	40 A	40 A
Rated voltage	400 V	830 V	400 V	830 V
Cross-section	1.5 ... 2.5 mm ²	1.5 ... 2.5 mm ²	1.5 ... 10 mm ²	1.5 ... 10 mm ²
Male insert (M)	09 12 002 2655	09 12 002 2656	09 12 002 3051	09 12 002 3052
Female insert (F)	09 12 002 2755	09 12 002 2756	09 12 002 3151	09 12 002 3152
Series	Han® Q 3/0	Han® Q 4/0	Han® Q 5/0	Han® Q 5/0 Quick Lock
Number of contacts	3 + ⊕	4	5 + ⊕	5 + ⊕
Termination type	Crimp termination 	Crimp termination 	Crimp termination 	Quick Lock termination 
Rated current	40 A	40 A	16 A	16 A
Rated voltage	400 V	830 V	230/400 V	230/400 V
Cross-section	1.5 ... 10 mm ²	1.5 ... 10 mm ²	0.14 ... 2.5 mm ²	0.5 ... 2.5 mm ²
Male insert (M)	09 12 003 3051	09 12 004 3051	09 12 005 3001	09 12 005 2633
Female insert (F)	09 12 003 3151	09 12 004 3151	09 12 005 3101	09 12 005 2733
Series	Han® Q 7/0	Han® Q 12/0	Han® High Density	
Number of contacts	7 + ⊕	12 + ⊕	21	
Termination type	Crimp termination 	Crimp termination/ Quick Lock termination 		
Rated current	10 A	10 A	6,5 A	
Rated voltage	400 V	400 V	~ 50 V / – 120 V	
Cross-section	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.09 ... 0.56 mm ²	
Male insert (M)	09 12 007 3001	09 12 012 3001	09 12 021 3001	
Female insert (F)	09 12 007 3101	09 12 012 3101	09 12 021 3101	

Inserts Han® Q for size Han-Compact®




Series	Han® Q 4/2	Han® Q 4/2	Han® Q 4/2	Han® Q 8/0
Number of contacts	4/2 + ⊕	4/2 + ⊕	4/2 + ⊕	8 + ⊕
Termination type	Crimp termination	Axial screw locking	Axial screw locking	Crimp termination
Rated current	40 A	40 A	40 A	16 A
Rated voltage	400 V	400 V	400 V	500 V
Cross-section	1.5 ... 6 mm ²	2.5 ... 6 mm ²	4 ... 10 mm ²	0.14 ... 4 mm ²
Male insert (M)	09 12 006 3041	09 12 006 2662	09 12 006 2663	09 12 008 3001
Female insert (F)	09 12 006 3141	09 12 006 2762	09 12 006 2763	09 12 008 3101


Series	Han® Q 8/0 Quick Lock	Han® Q 8/10	Han® Q 17/0	
Number of contacts	8 + ⊕	8/10 + ⊕	17 + ⊕	
Termination type	Quick Lock termination	Han® Q Data RJ45	Crimp termination	
Rated current	16 A	5 A / 10 A	10 A	
Rated voltage	500 V	50 V / 250 V	160 V	
Cross-section	0.5 ... 2.5 mm ²	0.13 ... 0.52 mm ²	0.14 ... 2.5 mm ²	
Male insert (M)	09 12 008 2633	09 12 011 3001	09 12 017 3001	
Female insert (F)	09 12 008 2733	09 12 011 3111	09 12 017 3101	


Hoods/Housings Han-Compact®




Identification	Size M / Pg	Hood side entry	Hood top entry	Bulkhead mounted housing side entry	Bulkhead mounted housing straight	Surface mounted housing	Cable to cable housing
Plastic	1 x Pg16	09 12 008 0527	09 12 008 0427			09 12 008 0901	09 12 008 0727
	1 x Pg21		09 12 008 0429				
	2 x M20	19 12 008 0425					
	1 x M25		19 12 008 0429				19 12 008 0729
	–			09 12 008 0902	09 12 008 0327		
Metal	1 x M25	19 12 008 0526*	19 12 008 0426*				
	1 x M25	19 12 708 0511	19 12 708 0411				
	–				09 12 708 0301		
EMC	1 x M25	19 12 008 0528*	19 12 008 0428*				
	1 x M25	19 12 008 0512	19 12 008 0412				
	–				09 12 008 0303		





Identification	Size M / Pg	Clamping range min./max. Ø mm	Part number
Han-Compact® half gland • plastic • for hoods and cable to cable housings 	M25	11.5 ... 15.5	19 12 000 5154
	M25	7.0 ... 10.5	19 12 000 5155
	M25	6.5 ... 9.5	19 12 000 5156
	M25	10.5 ... 14	19 12 000 5157
	M25	14 ... 17	19 12 000 5158
	Pg 16	6.5 ... 9.5	09 00 000 5047
	Pg 16	11.5 ... 15.5	09 00 000 5059
	Pg 16	9 ... 13	09 00 000 5158
	Pg 21	14 ... 18	09 00 000 5157
	Pg 21	17 ... 20.5	09 00 000 5158





Han-Compact® half gland • plastic • for surface mounted housing 	Pg 16	6.5 ... 9.5	09 00 000 5057
	Pg 16	11.5 ... 15.5	09 00 000 5058




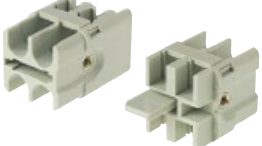
Han-Compact® half gland • metal • for hoods 	M25	6.5 ... 9.5	19 12 000 5056
	M25	10.5 ... 14	19 12 000 5057
	M25	14 ... 17	19 12 000 5058



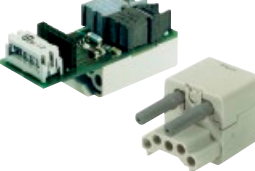

Han-Compact® half gland EMC • metal • for hoods 	M25	10.5 ... 14	19 62 000 5056
	M25	10.5 ... 14	19 62 000 5057
	M25	14 ... 17	19 62 000 5058

* Similar depiction. For standard cable glands refer to main catalogue „Industrial connectors Han®“, chapter 80

Series	Han-Brid®			
Identification	Device side	Cable side	Panel feed through with cage clamp termination	Latching parts / panel feed through
Data	 4 wires bus system – 12 Mbit/s	 4 wires bus system – 12 Mbit/s	 4 wires bus system – 12 Mbit/s	 4 wires bus system – 12 Mbit/s
Energy (Electrical data acc. to DIN EN 61984)	10 A 50 V 0.8 kV 3	10 A 50 V 0.8 kV 3	10 A 50 V 0.8 kV 3	10 A 50 V 0.8 kV 3
Cross-section	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®			
Identification	Panel feed through, straight	Panel feed through, angled	Latching parts / panel feed through , 4-pole	HARTING RJ Industrial®
Data	 RJ45 8-pole	 RJ45 8-pole	 RJ45 4-pole	 RJ45 8-pole – 10 Gbit/s
Energy (Electrical data acc. to DIN EN 61984)	10 A 24 V 0.8 kV 3	10 A 24 V 0.8 kV 3	10 A 24 V 0.8 kV 3	10 A 24 V 0.8 kV 3
Cross-section	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 3016
Female insert (F)	09 12 003 2774	09 12 003 2776	09 12 003 2770	

Series	Han-Brid®			
Identification	HARTING RJ Industrial®	RJ45	RJ45	LWL SC contacts
Data				
Energy (Electrical data acc. to DIN EN 61984)	RJ45 8-pole cat. 6 / 10 Gbit/s	RJ45 8-pole cat. 5 / 1 Gbit/s	RJ45 8-pole cat. 5 / 1 Gbit/s	LWL SC contacts optical fibre
Cross-section	10 A 24 V 0.8 kV 3 0.14 ... 2.5 mm ²	10 A 24 V 0.8 kV 3 0.14 ... 2.5 mm ²	10 A 24 V 0.8 kV 3 0.14 ... 2.5 mm ²	–
Male insert (M)	09 12 003 3015	09 12 003 3021	09 12 003 3031	09 20 004 4701
Female insert (F)				09 20 004 4711

Series	Han-Brid®			
Identification	Han-Brid® USB	Han® FireWire module	Han-Brid® LWL LWL	Han-Brid® Quintax 3 A
Data				
Energy (Electrical data acc. to DIN EN 61984)	USB 2.0 type A 480 Mbit/s	FireWire 400 Mbit/s	FOC POF 12 Mbit/s	4-wire / 8-wire 100 Mbit/s (cat. 5e)
Cross-section	1 A 50 V 0.8 kV 3 0.14 ... 2.5 mm ²	1 A 50 V 0.8 kV 3 0.14 ... 2.5 mm ²	10 A 50 V 0.8 kV 3 0.14 ... 2.5 mm ²	10 A 50 V 0.8 kV 3 0.14 ... 2.5 mm ²
Male insert (M)	09 12 001 2794	09 12 001 2774	09 12 004 2611	09 15 003 3001
Female insert (F)	09 12 001 3091	09 12 001 3071	09 12 004 2711	09 15 003 3101

Series	Han-Power® S			
Interface	1 x Q 4/2	1 x Q 4/2	2 x Q 4/2	1 x Q 8/0
Termination type	IDC termination	IDC termination	IDC termination	IDC termination
Electrical data acc. to DIN EN 61984 Power contacts Control contacts Cross-section				
	40 A 400/690 V 6 kV 3	40 A 400/690 V 6 kV 3	40 A 400/690 V 6 kV 3	25 A 500 V 6 kV 3
	10 A 250 V 4 kV 3	10 A 250 V 4 kV 3	10 A 250 V 4 kV 3	–
	2.5 ... 4 mm ²	4 ... 6 mm ²	4 ... 6 mm ²	2.5 ... 4 mm ²
Part number	09 12 008 4804	09 12 008 4806	09 12 008 4807	09 12 008 4801

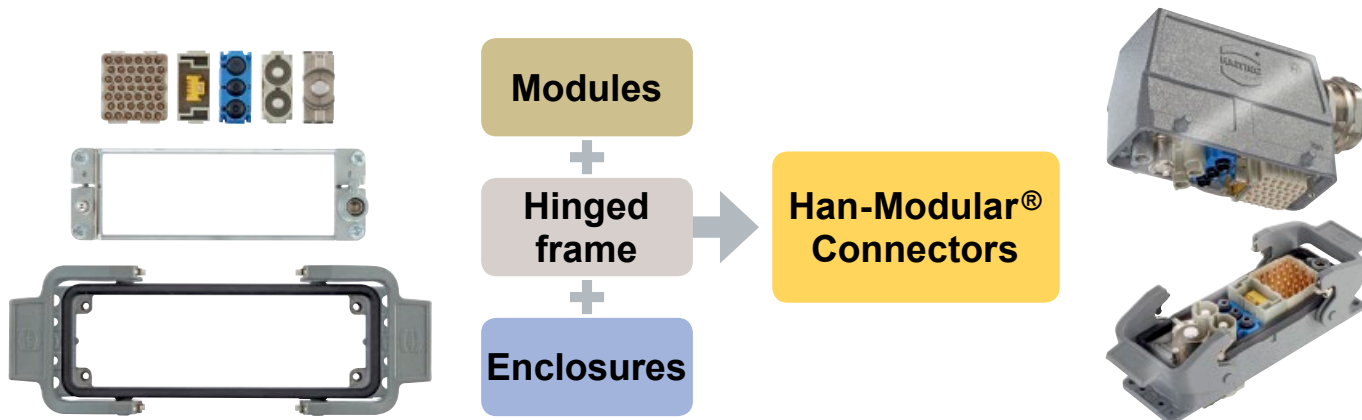
Series	Han-Power® S			
Interface	1 x Q 8/0	2 x Q 8/0	1 x Q 4/2	1 x Q 4/2
Termination type	IDC termination	IDC termination	IDC termination	IDC termination
Electrical data acc. to DIN EN 61984 Power contacts Control contacts Cross-section				
	25 A 500 V 6 kV 3	25 A 500 V 6 kV 3	40 A 400/690 V 6 kV 3	40 A 400/690 V 6 kV 3
	–	–	10 A 250 V 4 kV 3	10 A 250 V 4 kV 3
	4 ... 6 mm ²	2.5 ... 4 mm ²	4 ... 6 mm ²	10 mm
Part number	09 12 008 4811	09 12 008 4802	09 12 008 4901	09 12 008 4951

Series	Han-Power® S Accessories			
Identification	Grommet 	Cable diameter	Artikelnummer	Blanking piece
		7 – 10 mm	09 12 000 9969	
		10 – 13 mm	09 12 000 9970	
		13 – 16 mm	09 12 000 9971	
		16 – 19 mm	09 12 000 9972	
		19 – 22 mm	09 12 000 9973	
Part number				09 12 000 9974

Series	Han-Power® T			
Interface	3 x Q 2/0	3 x Q 4/2	3 x Q 5/0	3 x Q 3/4
Electrical data acc. to DIN EN 61984 Power contacts Control contacts				
	40 A 400 V 6 kV 3	40 A 400/690 V 6 kV 3	16 A 230/400 V 4 kV 3	40 A 400/690 V 6 kV 3
	–	10 A 250 V 4 kV	–	16 A 400 V 6 kV
Part number	09 12 008 4752	09 12 008 4720	09 12 008 4751	09 12 008 4760

Description of the Han-Modular® system

The Han-Modular® series is designed for combining different transmission media in one connector. The multifaceted system of inserts, contacts, frames, hoods and housings as well as accessories fulfils individual customer requirements. The customer can choose between more than 100 different modules. These are suitable for different transmission media and cover various termination techniques.

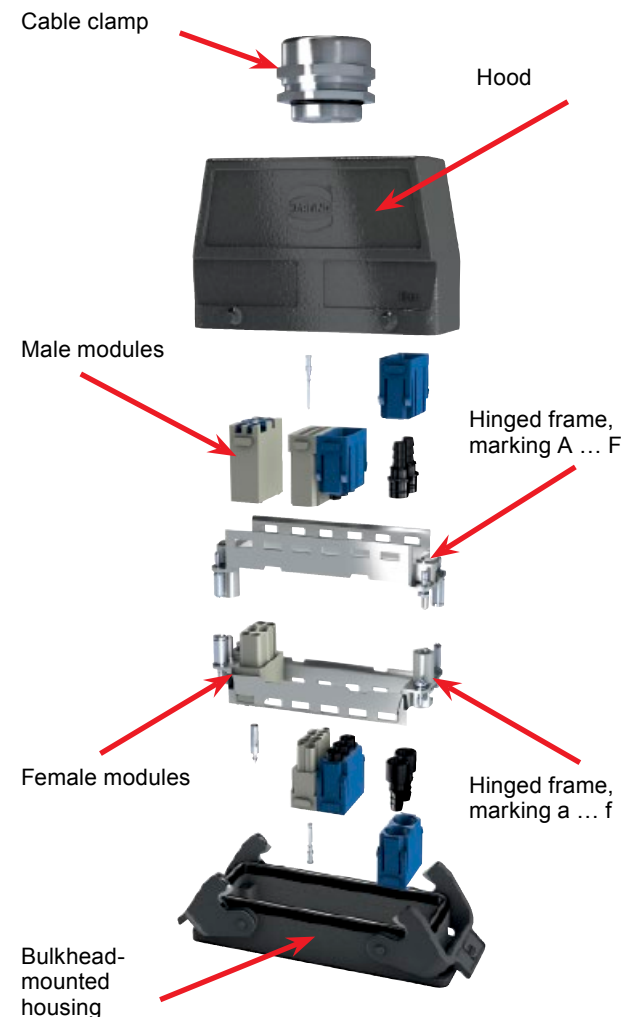


The patented Han-Modular® hinged frame enables the configuration of all modules in the well-accepted Han® hoods and housings. Further additional solutions are available, e.g. suitable docking frames for drawer units. Individual customer requirements can be realised by means of the Han-Modular® series. Combining various transmission media in one single connector results in lower expenditures in installation time and production downtime. Space savings and cost savings are further benefits. The easy extension possibilities secure the ideal solution for an actual as well as future safe design.

Highlights

- Combination of different connectors to one unit**
- Shorter installation times**
- Important space saving**
- Save money for components as well as for the whole industrial site**
- Future safe design due to easy extensions**

System description



Technical characteristics

Specifications / approvals	DIN EN 61984 DIN EN 60664-1 File No. E235076 File No. 61754 - 14 HH
PE system (hinged frame)	2 leading PE contacts
- Signal side	0.5 ... 2.5 mm ²
- Power side	4 ... 10 mm ² (10 mm ² with crimp tool 09 99 000 0374)
Limiting temperatures*	- 40 °C ... + 125 °C
Flammability acc. to UL 94	V0
Working life	
- Standard version	> 500 mating cycles
- HMC version	> 10,000 mating cycles
Material	
- Hinged frames	zinc die cast
- Modules	polycarbonate
- Contacts	copper alloy

* Some modules have a lower limiting temperature (i.e. pneumatic, optical as well as data transmission modules)

New Hinged Frames Plus – Established products even better



Suitable for more than 100 different modules



Quick and easy assembly supported by an audible “Click”



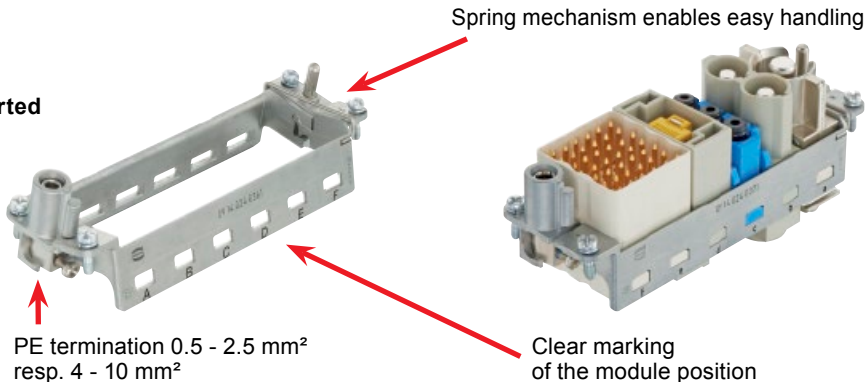
Very high mechanical stability



No tools for insertion and removal



2 leading PE contacts



Spring mechanism enables easy handling

PE termination 0.5 - 2.5 mm²
resp. 4 - 10 mm²

Clear marking of the module position

Hinged Frames Plus

Size	Hinged frames 6 B	Hinged frames 10 B	Hinged frames 16 B	Hinged frames 24 B
Number of modules	for 2 modules	for 3 modules	for 4 modules	for 6 modules
Standard version (A ... F)	09 14 006 0361	09 14 010 0361	09 14 016 0361	09 14 024 0361
Standard version (a ... f)	09 14 006 0371	09 14 010 0371	09 14 016 0371	09 14 024 0371
Han® HMC version (A ... F)	09 14 206 0361	09 14 210 0361	09 14 216 0361	09 14 224 0361
Han® HMC version (a ... f)	09 14 206 0371	09 14 210 0371	09 14 216 0371	09 14 224 0371

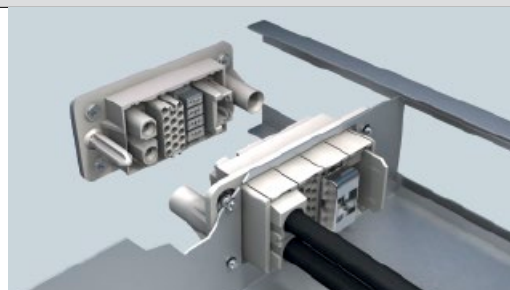
Accessories

Size	PE terminal extension (cable shoe 16 mm ²)	Coding element Han® 6 B - 24 B	Guide pins / bushes Han® 6 B - 24 B	Han® 10 A frame for 1 module
Hint	for hoods/housings high construction only	6 codings	16 codings	
Part number	09 14 000 9912	09 14 000 9901	Male: 09 14 000 9908 Female: 09 14 000 9909	09 14 000 0304

* for pneumatic, optical as well as small contacts (≤ 5 A) guide pins and bushes are recommended

Docking frame

- Docking connector for drawer systems
- Robust, leading guide pins and bushes
- Cost saving polycarbonate frames
- Compatible with HMC up to 10,000 mating cycles
- Large tolerance compensation of ± 2 mm play (float mount with M4 adapter plate 09 14 000 9936)



Docking frame

Size	Docking frames 6 B	Docking frames 10 B	Docking frames 16 B	Docking frames 24 B
Number of modules	for 2 modules	for 3 modules	for 4 modules	for 6 modules
Dimensions	65.8 x 33 mm	79.3 x 45 mm	94 x 45 mm	123.4 x 45 mm
float mounting (A ... F)	09 14 006 1701	09 14 010 1701	09 14 016 1701	09 14 024 1701
fix mounting (a ... f)	09 14 006 1711	09 14 010 1711	09 14 016 1711	09 14 024 1711

Han-Modular® Hoods/Housings		Han-Modular® Compact	Han-Modular® Twin	Han-Modular® Eco	Han-Modular® Eco
	Hoods/Housings type Number of modules PE termination	Metal hoods/housings IP65 1 module 0.5 ... 10 mm ²	Metal hoods/housings IP65 2 modules 0.5 ... 10 mm ²	Plastic hoods/housings IP65 1 module without PE	Plastic hoods/housings IP65 1 module Pin 1 = PE
	Hoods - Carrier hoods - Hood side entry M25 - Hood top entry M25 - Hood top entry M32 - Cover	09 14 001 0311 19 14 001 0501 19 14 001 0401 19 14 001 0402 09 14 001 5402	09 14 002 0311 19 14 002 0501 19 14 002 0401 19 14 002 0402	09 14 001 0420	09 14 001 0421
	Housings - Bulkhead-mounted housing - Cable to cable housing - Cover	09 14 001 0301 19 14 001 0701 09 14 001 5401	09 14 002 0301 19 14 002 0702 09 14 002 5401	09 14 001 0320 09 14 001 0720	09 14 001 0321 09 14 001 0721
	Coding elements	09 14 000 997x	09 14 000 993x	09 14 000 9929	09 14 000 9929
Han-Modular® Hoods/Housings		Han-Eco®	Han-Yellock®	Han-Inox®	Module clamp
	Hoods/Housings type Locking element Field of application Number of modules	Plastic hoods/housings IP65 Plastic levers Industrial applications 3, 4, 5, 7 modules	Metal hoods/housings IP65 Press-button Industrial applications 2, 4 modules	Stainless steel hoods/housings IP65 Stainless steel levers Process industry 3 modules	Plastic mounting frame IP20 Snap locking within switch cabinet 1 module
Part numbers	19 41 ...	11 ...	19 44 310 ...	09 14 000 0312 09 14 000 0313	
Hoods/housings for hinged frame		Han® B	Han® EMC	Han® M	Han® HPR
	Hoods/Housings type Locking element Field of application	Metal hoods/housings IP65 Han-Easy Lock® Industrial applications	Metal hoods/housings IP65 Han-Easy Lock® shielded connections	Metal hoods/housings IP65 Stainless steel levers Outdoor applications	Metal hoods/housings IP68 Screw locking Rail technology
	Sizes: - Han® 6 B for 2 modules - Han® 10 B for 3 modules - Han® 16 B for 4 modules - Han® 24 B for 6 modules				
Part numbers	09 30 ... / 19 30 ...	09 62 ... / 19 62 ...	09 37 ... / 19 37 ...	09 40 ... / 19 40 ...	
Hoods/housings for hinged frame		Han® HMC	Han-Snap®	Grip panel	Docking frame
	Hoods/Housings type Locking element Field of application	Metal hoods/housings IP65 Han-Easy Lock® up to 10,000 mating cycles	Plastic adapter IP20 Snap locking within switch cabinet	Metal mounting frame IP20 Screw locking within switch cabinet	Metal frame IP20 without locking for drawer systems
	Sizes: - Han® 6 B for 2 modules - Han® 10 B for 3 modules - Han® 16 B for 4 modules - Han® 24 B for 6 modules				
Part numbers	09 30 2 ... / 19 30 2 ...	09 33 ...	09 00 0xx 56 ...	09 30 0xx 1704	

100 - 200 A		Han® 200 A Axial Module	Han® 200 A PE Module	Han® 100 A Axial Module	Han® PE Module
	Number of contacts	1*	1 x PE*	1*	1 x PE
	Electrical data	200 A / 1000 V	200 A	100 A / 1000 V	100 A
	Termination type	Axial screw locking	Axial screw locking	Axial screw locking	Axial screw locking
	Cross-section	40 ... 70 mm ²	40 ... 70 mm ²	16 ... 35 mm ²	16 ... 35 mm ²
	Male module (M)	09 14 001 2662	09 14 001 2667	09 14 002 2651	09 14 001 2633
	Female module (F)	09 14 001 2762	09 14 001 2767	09 14 002 2751	09 14 001 2733
40 - 70 A		Han® 70 A Axial module	Han® 70 A Hybrid module	Han® 40 A Axial module	Han® C Axial module
	Number of contacts	2	1 + (4 x Han E®)	2	3
	Electrical data	70 A / 1000 V	70 A / 1000 V	40 A / 1000 V	40 A / 690 V
	Termination type	Axial screw locking	Axial screw locking	Axial screw locking	Axial screw locking
Cross-section	14 ... 22 mm ²	14 ... 22 mm ²	6 ... 10 mm ²	6 ... 10 mm ²	
Male module (M)	09 14 002 2647	09 14 005 2647	09 14 002 2602	09 14 003 2602	
Female module (F)	09 14 002 2742	09 14 005 2742	09 14 002 2702	09 14 003 2702	
Cross-section	6 ... 16 mm ²	6 ... 16 mm ²	2.5 ... 8 mm ²	2.5 ... 8 mm ²	
Male module (M)	09 14 002 2646	09 14 005 2646	09 14 002 2601	09 14 003 2601	
Female module (F)	09 14 002 2741	09 14 005 2741	09 14 002 2701	09 14 003 2701	
16 A		Han E® Quick Lock module	Han® EE Quick Lock module	Han® ES module	Han E® screw module
	Number of contacts	6	8	5	5
	Electrical data	16 A / 500 V	16 A / 400 V	16 A / 400 V	16 A / 230/400 V
	Termination type	Quick Lock termination	Quick Lock termination	Cage clamp termination	Screw locking
	Cross-section	0.5 ... 2.5 mm ²	0.5 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.5 ... 2.5 mm ²
Male module (M)	09 14 006 2633	09 14 008 2633	09 14 005 2616	09 14 005 2601	
Female module (F)	09 14 006 2733	09 14 008 2733	09 14 005 2716	09 14 005 2701	
≤ 10 A		Han DD® Quick Lock module	Han DD® Quick Lock module		
	Number of contacts	12, silver plated	12, gold plated		
	Electrical data	10 A / 250 V	10 A / 250 V		
	Termination type	Quick Lock termination	Quick Lock termination		
	Cross-section	0.25 ... 1.5 mm ²	0.25 ... 1.5 mm ²		
Male module (M)	09 14 012 2632	09 14 012 2634			
Female module (F)	09 14 012 2732	09 14 012 2734			
Axial screw locking	Hexagonal drivers	with grip	Bit 1/4"	Adapter 3/8"	Hexagonal torque set
	2 mm (40 A)	09 99 000 0313	09 99 000 0369		09 99 000 0834
	2.5 mm (70 A)		09 99 000 0375		09 99 000 0834
	4 mm (100 A)	09 99 000 0363		09 99 000 0370	09 99 000 0833
5 mm (200 A)	09 99 000 0364		09 99 000 0371	09 99 000 0833	

Power and Signal Modules – Crimp termination



		Han® PE module (Including crimp contact for earthing)				
PE	Number of contacts	1 x PE	1 x PE	1 x PE		
	Cross-section	35 mm ²	25 mm ²	16 mm ²		
	Termination type	Crimp termination, Han® HC	Crimp termination, Han® HC	Crimp termination, Han® HC		
	Male module (M)	09 14 001 3074	09 14 001 3073	09 14 001 3072		
	Female module (F)	09 14 001 3174	09 14 001 3173	09 14 001 3172		
70 - 200 A		Han® 200 A Crimp module	Han® 100 A Crimp module	Han® 100 A Single module	Han® 70 A Crimp module	
	Number of contacts	1*	2*	1	2	
	Electrical data	200 A / 1000 V	100 A / 1000 V	100 A / 830 V	70 A / 1000 V	
	Cross-section	25 ... 70 mm ²	10 ... 35 mm ²	10 ... 35 mm ²	6 ... 25 mm ²	
	Termination type	Crimp termination, Han® HC	Crimp termination, Han® HC	Crimp termination, Han® HC	Crimp termination, Han® HC	
	Male module (M)	09 14 001 3001	09 14 002 3051	09 14 001 3031	09 14 002 3041	
	Female module (F)	09 14 001 3101	09 14 002 3151	09 14 001 3131	09 14 002 3141	
40 A		Han® 40 A Crimp module	Han® C module	Han® CC module	Han® CD module	
	Number of contacts	2	3	4	3 + 4	
	Electrical data	40 A / 1000 V	40 A / 690 V	40 A / 830 V	40 A + 10 A / 830 V	
	Cross-section	1.5 ... 10 mm ²	1.5 ... 6 mm ²	1.5 ... 6 mm ²	0.14 ... 6 mm ²	
	Termination type	Crimp termination, Han® C	Crimp termination, Han® C	Crimp termination, Han® C	Crimp, Han® C + Han D®	
	Male module (M)	09 14 002 3002	09 14 003 3001	09 14 004 3041	09 14 007 3001	
	Female module (F)	09 14 002 3102	09 14 003 3101	09 14 004 3141	09 14 007 3101	
16 A		Han E® module	Han® EE module	Han® EEE module	Han E® Protected module	
	Number of contacts	6	8	20*	6	
	Electrical data	16 A / 500 V	16 A / 400 V	16 A / 500 V	16 A / 830 V	
	Cross-section	0.14 ... 4 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²	
	Termination type	Crimp termination, Han E®	Crimp termination, Han E®	Crimp termination, Han E®	Crimp termination, Han E®	
	Male module (M)	09 14 006 3001	09 14 008 3001	09 14 020 3001	09 14 006 3041	
	Female module (F)	09 14 006 3101	09 14 008 3101	09 14 020 3101	09 14 006 3141	
≤ 10 A		Han DD® module	Han® DDD module	Han DD® Quad module	Han® High Density module	
	Number of contacts	12	17	42*	25	
	Electrical data	10 A / 250 V	10 A / 150 V	10 A / 150 V	4 A / 50 V	
	Cross-section	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.08 ... 0.52 mm ²	
	Termination type	Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, D-Sub	
	Male module (M)	09 14 012 3002	09 14 017 3001	09 14 042 3001	09 14 025 3001	
	Female module (F)	09 14 012 3102	09 14 017 3101	09 14 042 3101	09 14 025 3101	
High Voltage		Han® HV module 40 A	Han® HV module 16 A	Han® HV single module		
	Number of contacts	2*	2*	2		
	Electrical data	40 A / 2900/5000 V	16 A / 2900/5000 V	16 A / 2500 V		
	Cross-section	1.5 ... 10 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²		
	Termination type	Crimp termination, Han® C	Crimp termination, Han E®	Crimp termination, Han E®		
	Male module (M)	09 14 002 3023	09 14 002 3021	09 14 002 3025		
	Female module (F)	09 14 002 3123	09 14 002 3121	09 14 002 3125		





* Double module, requires two places in the frame





Han® RJ45 module	for patch cable	for IDC	for patch cable	for IDC and preLink	
	- 8 contacts - cat. 6A - 10 Gbit/s				
	Part numbers	Male module (M) 09 14 001 4623 Adapter for patch cable: 09 14 000 9966 Patch cable cat. 6: 09 47 474 71xx	Male module (M) 09 14 001 4623 RJ Industrial IDC: 09 45 400 1560	Female module (F) 09 14 001 4721	Female module (F) 09 14 001 4722 RJ45 female IDC: 09 14 545 1561 RJ45 female preLink: 09 14 008 4720
Han-Quintax® Modules	Han-Quintax®	Han® High Density Quintax	Han D® Coax	Han E® Coax	
	Quintax modul	2 x 4*	2 x 8*	2 x Coax*	2 x Coax*
	Number of contacts				
	Male module (M)	09 14 002 3001	09 14 002 3001	09 14 002 3001	09 14 002 3001
	Female module (F)	09 14 002 3101	09 14 002 3101	09 14 002 3101	09 14 002 3101
	Insert (Cable Ø ≤ 9.5 mm)				
	Data rate	100 Mbit/s (cat. 5e)	100 Mbit/s (cat. 5e)	≤ 500 Mhz / 75 Ω	≤ 500 Mhz / 50 Ω
	Electrical data	10 A / 50 V	5 A / 50 V	10 A / 50 V	16 A / 50 V
	Cross-section	0.14 ... 2.5 mm²	0.09 ... 0.52 mm²	0.14 ... 2.5 mm²	0.14 ... 4 mm²
Termination type	Crimp termination, Han D®	Crimp termination, D-Sub	Crimp termination, Han D®	Crimp termination, Han E®	
Male insert (M)	09 15 004 3013	09 15 008 3013	09 15 001 3013	09 15 001 3023	
Female insert (F)	09 15 004 3113	09 15 008 3113	09 15 001 3113	09 15 001 3123	
PE shielding termination	Optional shielding termination to the hinged frame with the aid of Han-Quintax® metal adapter 09 14 000 9915				
Han® GigaBit – Han® MegaBit Modules	Han® GigaBit module	Han® MegaBit module with 2 cable entries	Han® MegaBit module with 1 cable entry	Han® Shielded Module	
	Adapter Module				
	Male module (M)	09 14 001 3011	09 14 001 3011	09 14 001 3011	09 14 001 3011
	Female module (F)	09 14 001 3111	09 14 001 3111	09 14 001 3111	09 14 001 3111
	Insert (Cable Ø ≤ 14 mm)				
	Number of contacts	8	2 x 4	8	20
	Data rate	10 Gbit/s (cat. 6A)	2 x 100 Mbit/s (cat. 5e)	1 Gbit/s (cat. 5e)	
	Electrical data	5 A / 50 V	10 A / 50 V	10 A / 50 V	4 A / 32 V
	Cross-section	0.09 ... 0.52 mm²	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	0.09 ... 0.52 mm²
Termination type	Crimp termination, D-Sub	Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, D-Sub	
Shielding termination	Crimp flange	2 x crimp flange	Crimp flange	Crimp flange	
Male insert (M)	09 14 008 3011	09 14 008 3016	09 14 008 3021	09 14 020 3013	
Female insert (F)	09 14 008 3111	09 14 008 3116	09 14 008 3121	09 14 020 3113	
	with PE shielding termination	with PE shielding termination	with PE shielding termination		
Male insert (M)	09 14 008 3012	09 14 008 3017	09 14 008 3022		
Female insert (F)	09 14 008 3112	09 14 008 3117	09 14 008 3122		
Serial Bus Modules	Han® D-Sub module	Han® USB module	Han® FireWire module	Han® ID CAN module	
	Number of contacts	9 + shielding	8	6	7
	Data rate	12 Mbit/s (Profibus)	5 Gbit/s (USB 3.0)	400 Mbit/s (IEEE 1394a)	1 Mbit/s (CAN bus)
	Electrical data	5 A / 50 V	1 A / 50 V	1 A / 50 V	24 V
Cross-section	0.09 ... 0.52 mm²			0.13 ... 1.5 mm²	
Termination type	Crimp termination, D-Sub	USB patch cable	FireWire patch cable	Cage clamp termination	
Male module (M)	09 14 009 3001	09 14 001 4601	09 14 001 4611	09 80 015 0100	
Female module (F)	09 14 009 3101	09 14 001 4703	09 14 001 4711	09 80 115 0200	


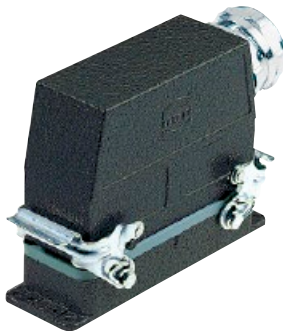


* Double module, requires two places in the frame

		Han® Multi Module (for D-Sub coaxial contacts)		Han® Multi Module (for DIN 41626 coaxial contacts)	
Coaxial Modules					
	Number of contacts	4	4	12*	12*
	Male module (M)	09 14 004 4501	09 14 004 4501	09 14 012 4501	09 14 012 4501
	Female module (F)	09 14 004 4513	09 14 004 4513	09 14 012 4512	09 14 012 4512
	Coaxial contacts (≤ 2 GHz)				
	Impedance	75 Ω	50 Ω	75 Ω	50 Ω
	Coaxial cable	RG179, RG187	RG174, RG188, RG316	RG179, RG187	RG174, RG188, RG316
	Termination type	Crimp /crimp termination	Crimp /crimp termination	Solder /crimp termination	Solder /crimp termination
Male contact	09 69 282 5230	09 69 282 5140	09 14 000 6221	09 14 000 6211	
Female contact	09 69 182 5230	09 69 182 5140	09 14 000 6121	09 14 000 6111	
Optical Modules		Han® LC module	Han® SC module	Han® Multi module	Han® Multi module
	Number of contacts	6	4	4	12*
	Male module (M)	09 14 006 4701	09 14 004 4701	09 14 004 4501	09 14 012 4501
	Female module (F)	09 14 006 4711	09 14 004 4711	09 14 004 4512	09 14 012 4512
	Contacts				
	1 mm POF		20 10 001 5211	Male: 20 10 001 4211 Female: 20 10 001 4221	Male: 20 10 001 4211 Female: 20 10 001 4221
	1 mm POF Fast assembly termination		20 10 001 5217		
	SI-Fibre 200 / 230 µm Multi-Mode		20 10 230 5211	Male: 20 10 230 4211 Female: 20 10 230 4221	Male: 20 10 230 4211 Female: 20 10 230 4221
	GI-Fibre 50-62,5 / 125 µm Multi-Mode	20 10 125 8211	20 10 125 5211	Male: 20 10 125 4212 Female: 20 10 125 4222	Male: 20 10 125 4212 Female: 20 10 125 4222
GI-Fibre 9 / 125 µm Single-Mode	20 10 125 8220	20 10 125 5220			
Further Modules		Han-Eco® Monoblock	Han-Eco® PE module	Han® Dummy module	Han® Pneumatic module metal
	Field of application	for Han-Eco® hoods/housings only	for Han-Eco® hoods/housings only	to fill-up empty module places	
	Number of contacts	10, 14, 20, 28 + PE	1 x PE		3
	Electrical data	16 A / 500 V			
	Cross-section	0.5 ... 2.5 mm ²	1.5 ... 16 mm ²		3, 4, 6 mm
Termination type	Screw locking	Screw locking			
Male module (M)	19 41 0xx 2601	19 41 001 2600	09 14 000 9950	09 14 003 3501	
Female module (F)	19 41 0xx 2701	19 41 001 2700		09 14 003 3501	
Contacts for pneumatic modules		Pneumatic contacts (max. 10 bar)			Adapter
	For tube outer diameter				
	Tube-Ø	6 mm OD	4 mm OD	3 mm OD	for Han® C contacts
	Male contact	09 14 000 6356	09 14 000 6354	09 14 000 6353	Male: 09 14 000 6391
	Female without shut-off	09 14 000 6456	09 14 000 6454	09 14 000 6453	Female: 09 14 000 6491
	Female with shut-off	09 14 000 6466	09 14 000 6464	09 14 000 6463	
	For tube inner diameter				
	Tube-Ø	6 mm ID	4 mm ID	3 mm ID	
	Male contact	09 14 000 6306	09 14 000 6304	09 14 000 6303	
	Female without shut-off	09 14 000 6406	09 14 000 6404	09 14 000 6403	
Female with shut-off	09 14 000 6416	09 14 000 6414	09 14 000 6413		

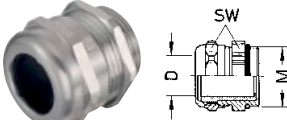
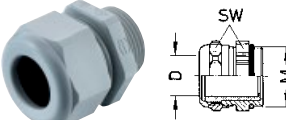
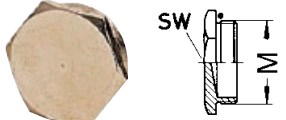
* Double module, requires two places in the frame

<p>Identification</p> <p>For connectors without hoods/housings</p>	<p>Latching part without strain relief</p> 	<p>Latching part without strain relief</p> 	<p>Latching part with strain relief and panel mounting part</p> 	<p>Shell housings</p> 
<p>Part number</p>	<p>09 33 000 9987</p>	<p>09 33 000 9991</p>	<p>09 33 000 9990</p>	<p>09 33 006 0401 09 33 010 0401 09 33 016 0401 09 33 024 0401</p>

<p>Identification</p>	<p>Insert mounting part, for assembly on DIN rail</p> 	<p>Insert mounting part, swinging</p> 	<p>Panel mounting part, plastic</p> 	<p>Panel mounting part, metal</p> 
<p>Part number</p>	<p>09 33 000 9980</p>	<p>09 33 000 9801 09 33 000 9803</p>	<p>09 33 000 9985</p>	<p>09 33 000 9984</p>

	<p>Han® Standard</p> <ul style="list-style-type: none"> - Standard hoods/housings - Field of application: for demanding environments, for example, in the automobile and mechanical engineering industries also for process and regulation control applications - Distinguishing feature: colour-coded grey (RAL 7037) - Material of hoods/housings: Die cast light alloy - Locking levers: Han-Easy Lock® - IP65 		<p>Han® M</p> <ul style="list-style-type: none"> - Han® M Hoods/Housings for harsh environmental requirements - Field of application: for all applications where aggressive environmental conditions and harsh climatic atmospheres are encountered - Distinguishing feature: colour-coded black (RAL 9005) - Material of hoods/housings: Die cast light alloy, corrosion resistant - Locking levers: Stainless steel - IP65
	<p>Han® EMC</p> <ul style="list-style-type: none"> - Han® EMC hoods and housings for optimal shielding transfer and low transfer impedances - Field of application: For sensitive interconnections that have to be shielded against electrical, magnetic or electro-magnetic interferences - Distinguishing feature: Electrically conductive surface, internal seal - Material of hoods/housings: Die cast light alloy - Locking levers: Han-Easy Lock® - IP65 		<p>Han® HPR</p> <ul style="list-style-type: none"> - Han® HPR Hoods/Housings, pressure tight - Field of application: For external electrical interconnections in vehicles, in highly demanding environments and wet areas, as well as for sensitive interconnections that have to be shielded - Distinguishing feature: colour-coded black, internal seal (RAL 9005) - Material of hoods/housings: Die cast light alloy, corrosion resistant - Locking element: Stainless steel - IP68 - IP69K

Cable Glands for metric Threads

Cable glands								Blanking piece		
Metal				Thermoplastic				Metal		
										
Thread M	Clamping range D	Part number	SW	Thread M	Clamping range D	Part number	SW	Thread M	Part number	SW
M20	5 ... 9	19 00 000 5080	22	M20	5 ... 9	19 00 000 5180	24	M20	19 00 000 5070	22
M20	6 ... 12	19 00 000 5082	22	M20	6 ... 12	19 00 000 5182	24	M25	19 00 000 5071	28
M20	10 ... 14	19 00 000 5084	24	M20	10 ... 14	19 00 000 5184	27	M32	19 00 000 5072	35
M25	9 ... 16	19 00 000 5090	30	M25	9 ... 16	19 00 000 5190	33	M40	19 00 000 5073	44
M25	13 ... 18	19 00 000 5092	30	M25	13 ... 18	19 00 000 5192	33			
M32	13 ... 20	19 00 000 5094	40	M32	13 ... 20	19 00 000 5194	42			
M32	18 ... 25	19 00 000 5096	40	M32	18 ... 25	19 00 000 5196	42			
M40	20 ... 26	19 00 000 5097	50	M40	20 ... 26	19 00 000 5197	53			
M40	22 ... 32	19 00 000 5098	50	M40	22 ... 32	19 00 000 5198	53			

* Han® 3 A hoods/housings differ, see main catalogue „Industrial Connectors Han®“

Hoods with Metric Cable Entries



	Hood, side entry				Hood, top entry							
Single locking lever			Han® 3 A				Han® 3 A					
Double locking lever												
Drawing Dimensions in mm												
	a	b	h	M	Part number		a	b	h	M	Part number	
					Single locking lever	Double locking lever					Single locking lever	Double locking lever
Han® 3 A	26.5	26.5	54.6	M20	19 20 003 0620*		28	27	60	M20	19 20 003 1440	
	28	27	54.3	M20	19 20 003 1640		28	27	59.8	M25	19 20 003 1445	
Han-Brid®	28	27	54.5	M20	19 20 003 1643		28	27	60	M20	19 20 003 1443	
	26.5	26.5	54.6	M20	19 20 003 0623*		26.5	35.1	60	M20	19 20 003 0423*	
Han® 10 A	62.7	29.5	61.2	M20	19 20 010 1540		62.7	29.5	58.7	M20	19 20 010 1440	
	62.7	36	67.2	M25	19 20 010 0446		62.7	29.5	67.2	M25	19 20 010 0446	
	62.7	36	67.2	M25	19 20 010 0546							
Han® 16 A	79.3	29.5	61.2	M20	19 20 016 1540		79.5	29.5	47	M20	19 20 016 1440	
	79.3	36	70.3	M25	19 20 016 0546		79.3	29.5	70	M25	19 20 016 0446	
Han® 32 A	82	56	60	M25		19 20 032 1521	82	56	78.5	M25		19 20 032 0426
	82	56	79	M32		19 20 032 0527	82	56	78.5	M32		19 20 032 0427
Han® 6 B	60	43	46	M20	19 30 006 1540		60	43	53.5	M20	19 30 006 1440	
	60	43	46	M25	19 30 006 1541		60	43	72	M25	19 30 006 0446	
	60	43	72	M25	19 30 006 0546		60	43	72	M32	19 30 006 0447	
	60	43	72	M32	19 30 006 0547							
Han® 10 B	72.6	43	57	M20	19 30 010 1540	19 30 010 1520	72.6	43	58.5	M25		19 30 010 1421
	72.6	43	57	M25	19 30 010 1541	19 30 010 1521	72.6	43	58.5	M25	19 30 010 1441	
	72.6	43	72	M32	19 30 010 0547	19 30 010 0527	72.6	43	58.5	M20	19 30 010 1440	19 30 010 1420
							72.6	43	72	M32	19 30 010 0447	19 30 010 0427
Han® 16 B	93.5	43	62.5	M25	19 30 016 1541		93.5	43	61	M25	19 30 016 1441	19 30 016 1421
	93.5	43	62.5	M32	19 30 016 1542		93.5	43	61	M32	19 30 016 1442	19 30 016 1422
	93.5	43	76	M32	19 30 016 0547	19 30 016 0527	93.5	43	76	M32	19 30 016 0447	19 30 016 0427
	93.5	43	76	M40	19 30 016 0548	19 30 016 0528	93.5	43	76	M40	19 30 016 0448	19 30 016 0428
	93.5	43	62.5	M25		19 30 016 1521						
	93.5	43	62.5	M32		19 30 016 1522						
Han® 24 B	120	43	62.5	M25	19 30 024 1541		120	43	71	M32	19 30 024 1442	19 30 024 1422
	120	43	62.5	M32	19 30 024 1542		120	43	76	M32	19 30 024 0447	19 30 024 0427
	120	43	76	M32	19 30 024 0547	19 30 024 0527	120	43	76	M40	19 30 024 0448	19 30 024 0428
	120	43	76	M40	19 30 024 0548	19 30 024 0528						
	120	43	62.5	M25		19 30 024 1521						
	120	43	62.5	M32		19 30 024 1522						
Han® 32 B	94	82.5	94	M32		19 30 032 0527	94	82.5	93.5	M32		19 30 032 0427
	94	82.5	94	M40		19 30 032 0528	94	82.5	93.5	M40		19 30 032 0428
Han® 48 B	132	90	97.6	M40	19 30 048 0548		132	90	97.6	M40	19 30 048 0448	

Housings with Metric Cable Entries



	Bulkhead-mounted housing					Surface mounted housings (2 side entries except Han® 3 A)														
Single locking lever			Han® 3 A		Han® 3 A						Han® 3 A									
Double locking lever																				
Drawing Dimensions in mm																				
	a	b	c	e	h	Part number		a	b	c	e	h	M	Part number						
						Single locking lever	Double locking lever							Single locking lever	Double locking lever					
Han® 3 A	30	40		28	23	09 20 003 0320**		30	40		57	26.8	M20	19 20 003 0220**						
	30	40		28	23	09 20 003 0301		30	40		57.6	27.2	M20	19 20 003 1250						
Han® 10 A	70	81	17.5	29.5	26	09 20 010 0301		48	74.4	40	50	52	M20	19 20 010 0290						
Han® 16 A	86	96	17.5	29.5	26	09 20 016 0301		64	95	40	50	57	M20	19 20 016 0290						
Han® 32 A	92	102	42	56.6	28.5		09 20 032 0301	94	106	46	57	81.8	M32		19 20032 0272					
Han® 6 B	70	80	32	43.4	28.9	09 30 006 0301		70	82	40	52	51.5	M20	19 30 006 1290						
	70	80	32	43.4	28.9	09 30 006 0302*		70	82	40	52	51.5	M20	19 30 006 1295*						
	70	85	32	48.4	30.4	09 30 006 1301		70	82	45	57	73.8	M25	19 30 006 0291						
								70	82	45	57	73.8	M25	19 30 006 0296*						
								70	82	45	57	73.8	M32	19 30 006 0292						
Han® 10 B	83	93	32	43.4	28.9	09 30 010 0303		82	94	40	52	53.8	M20		19 30 010 1270					
	83	93	32	43.4	28.9	09 30 010 0305	09 30 010 0301	82	94	45	57	80.8	M32		19 30 010 0272					
	83	98	32	48.4	30.4		09 30 010 1301	82	94	45	57	80.8	M25		19 30 010 0271					
								82	94	40	52	53.8	M20	19 30 010 1290						
								82	94	40	52	53.8	M20	19 30 010 1295*						
								82	94	45	57	80.8	M25	19 30 010 0291						
								82	94	45	57	80.8	M25	19 30 010 0296						
Han® 16 B	103	113	32	43.4	28.9		09 30 016 0301	105	117	45	57	55.8	M25	19 30 016 1291	19 30 016 1271					
	103	113	32	43.4	28.9	09 30 016 0307		105	117	45	57	55.8	M25	19 30 016 1296*						
	103	113	32	43.4	28.9	09 30 016 0306*		105	117	45	57	80.8	M25	19 30 016 0291						
	103	118	32	48.4	30.4		09 30 016 1301	105	117	45	57	80.8	M32	19 30 016 0292	19 30 016 0272					
								105	117	45	57	80.8	M32	19 30 016 0297*						
Han® 24 B	130	140	32	43.4	28.9	09 30 024 0307	09 30 024 0301	132	144	45	57	55.8	M25	19 30 024 1291	19 30 024 1271					
	130	140	32	43.4	28.9	09 30 024 0304*		132	144	45	57	55.8	M25	19 30 024 1296*						
	130	140	32	43.4	28.9	09 30 024 0302*		132	144	45	57	80.8	M32	19 30 024 0297*						
	130	145	32	48.4	30.4		09 30 024 1301	132	144	45	57	80.8	M32	19 30 024 0292						
Han® 32 B	110	124	65	90	34		09 30 032 0301	112	125	67	87	90	M40		19 30 032 0273*					
Han® 48 B	148	165	70	96	39.3	09 30 048 0301*		111	141	106	120	99	M40	19 30 048 0298*						

* With plastic cover
 ** Hoods/Housings material plastic

Special Hoods/Housings with Metric Cable Entries



	Hood										Housing																	
	Side Entry					Top Entry					Bulkhead-mounted housing				Surface-mounted housing													
Single locking lever			Screw locking					Screw locking					Screw locking															
Double locking lever																												
Drawing Dimensions in mm																												
	V'	a	b	h	M	Part number	V'	a	b	h	M	Part number	V'	a	b	c	e	h	Part number	V'	a	b	c	e	h	M	Part number	
Han® 3 M	1	28	27	54.4	M20	19 37 003 1640	1	28	27	60	M20	19 37 003 1440	1	28	40		30	25	09 37 003 0301	1	30	40		57.6	29.2	M20	19 37 003 1250	
Han® 6 M	1	60	43	46	M20	19 37 006 1540	1	60	43	53.5	M20	19 37 006 1440	1	70	80	32	43.4	29.6	09 37 006 0301	1	70	82	40	52	51.5	M20	19 37 006 1290	
Han® 10 M	2	73	43	57	M20	19 37 010 1520	2	72.6	43	58.5	M20	19 37 010 1420	2	83	93	32	43.4	29.6	09 37 010 0301	2	82	94	40	52	53.8	M20	19 37 010 1270	
																					2	82	94	45	57	80.8	M32	19 37 010 0272
Han® 16 M	2	93.5	43	62.5	M25	19 37 016 1521	2	93.5	43	76	M32	19 37 016 0427	2	103	113	32	43.4	29.6	09 37 016 0301	2	105	117	45	57	55.8	M25	19 37 016 1231	
	2	93.5	43	76	M32	19 37 016 0527							2	105	117	45	57	80.8	M32	19 37 016 0272								
Han® 24 M	2	120	43	62.5	M25	19 37 024 1521	2	120	43	76	M32	19 37 024 0427	2	130	140	32	43.4	29.6	09 37 024 0301	2	132	144	45	57	80.8	M32	19 37 024 0272	
	2	120	43	76	M32	19 37 024 0527																						
Han® 3 A EMC	1	28	27	54.4	M20	19 62 003 1640	1	28	2	60	M20	19 62 003 1440	1	28	40		30	23	09 62 003 0301	1	40	30		57.6	26.5	M20	19 62 003 1250	
Han® 10 A EMC	1	64	30.5	70	M25	19 62 015 0546	1	64	30.5	70	M25	19 62 015 0446	1	70	81	17.5	33	26.1	09 62 015 0301									
Han® 16 A EMC	1	80	30.5	70	M25	19 62 025 0546	1	80	30.5	70	M25	19 62 025 0446	1	86	96	17.5	33	16.1	09 62 025 0301									
Han® 6 B EMC/B	1	60	43	46	M20	19 62 806 1540	1	60	43	53.5	M20	19 62 806 1440	1	70	80	32	43.4	27.3	09 62 806 0301	1	70	82	40	52	51.3	M20	19 62 806 1290	
	1	60	43	72	M32	19 62 806 0547	1	60	43	71.6	M25	19 62 806 0446																
Han® 10 B EMC/B	2	72.6	43	57	M20	19 62 810 1520	2	72.6	43	58.5	M20	19 62 810 1420	2	83	93	32	43.4	27.3	09 62 810 0301									
	2	72.6	43	72	M32	19 62 810 0527	2	72.6	43	72	M32	19 62 810 0427																
Han® 16 B EMC/B	2	93.5	43	62.5	M20	19 62 816 1521	2	93.5	43	61	M25	19 62 816 1421	2	103	113	32	43.4	27.3	09 62 816 0301	2	105	117	45	57	82.1	M40	19 62 816 0273	
	2	93.5	43	76	M32	19 62 816 0527	2	93.5	43	76	M32	19 62 816 0427																
Han® 24 B EMC/B	2	120	43	62.5	M25	19 62 824 1521	2	120	43	71	M32	19 62 824 1422	2	130	140	32	43.4	27.3	09 62 824 0301	2	132	144	45	57	80.55	M40	19 62 824 0273	
	2	120	43	76	M40	19 62 824 0528	2	120	43	76	M32	19 62 824 0427																
Han® 3 HPR							S	45.4	32.4	54.6	M20	19 40 003 0410	S	45.4	30		32.2	24.3	09 40 003 0311	S	41	52.15	41	45.4	41.35	M20	19 40 003 0950	
							S	45.5	32.4	59.7	M25	19 40 003 0411									S	41	66.5	41	45.4	41.05	M25	19 40 003 0951
Han® 6 HPR	S	132	58	100.5	M20	19 40 006 0510	S	132	58	100	M20	19 40 006 0410	S	70	132	32	58	28.9	09 40 006 0311	S	127	156	60	80	100	M20	19 40 006 1260	
	S	132	58	100.5	M25	19 40 006 0511	S	132	58	100	M25	19 40 006 0411	S	70	132	32	58	28.9	09 40 006 0317	S	127	156	60	80	100	M25	19 40 006 1261	
	S	132	58	100.5	M32	19 40 006 0512	S	132	58	100	M32	19 40 006 0412									S	127	156	60	80	100	M32	19 40 006 1262
	S	132	58	100.5	M40	19 40 006 0513	S	132	58	100	M40	19 40 006 0413																
Han®10 HPR	S	145	58	100.5	M25	19 40 010 0511	S	145	58	100.5	M25	19 40 010 0411	S	83	145	32	58	28.9	09 40 010 0311	S	140	169	60	80	100	M20	19 40 010 1260	
	S	145	58	100.5	M32	19 40 010 0512	S	145	58	100.5	M32	19 40 010 0412	S	83	145	32	58	28.9	09 40 010 0317	S	140	169	60	80	100	M32	19 40 010 1262	
	S	145	58	100.5	M40	19 40 010 0513	S	145	58	100.5	M40	19 40 010 0413									S	140	169	60	80	100	M40	19 40 010 1263
Han® 16 HPR	S	165	58	110.5	M25	19 40 016 0511	S	165	58	110.5	M25	19 40 016 0411	S	103	165	32	58	28.9	09 40 016 0311	S	160	189	60	80	111	M25	19 40 016 1261	
	S	165	58	110.5	M32	19 40 016 0512	S	165	58	110.5	M32	19 40 016 0412	S	103	165	32	58	28.9	09 40 016 0317	S	160	189	60	80	111	M32	19 40 016 1262	
	S	165	58	110.5	M40	19 40 016 0513	S	165	58	110.5	M40	19 40 016 0413									S	160	189	60	80	111	M40	19 40 016 1263
	S	165	58	110.5	M50	19 40 016 0514	S	165	58	110.5	M50	19 40 016 0414									S	160	189	60	80	111	M40	19 40 016 1273
Han® 24 HPR	S	192	58	110.5	M32	19 40 024 0512	S	192	58	110	M32	19 40 024 0412	S	130	192	32	58	28.9	09 40 024 0311	S	187	216	60	80	110.9	M40	19 40 024 1263	
	S	192	58	110.5	M40	19 40 024 0513	S	192	58	110	M40	19 40 024 0413	S	130	192	32	58	28.9	09 40 024 0317	S	187	216	60	80	110.9	M40	19 40 024 1273	
	S	192	58	110.5	M50	19 40 024 0514	S	192	58	110	M50	19 40 024 0414																

* Locking: 1 = single lever, 2 = double locking levers, S = screw locking

Hoods Han® HMC with Metric Cable Entries



	Hood, side entry				Hood, top entry					
Single locking lever										
Drawing Dimensions in mm										
	a	b	h	M	Part number	a	b	h	M	Part number
					Single locking lever					Single locking lever
Han® 6 B	60	43	46	M20	19 30 206 1540	60	43	53.5	M20	19 30 206 1440
	60	43	46	M25	19 30 206 1541	60	43	72	M25	19 30 206 0446
	60	43	72	M25	19 30 206 0546	60	43	72	M32	19 30 206 0447
	60	43	72	M32	19 30 206 0547					
Han® 10 B	72.6	43	57	M20	19 30 210 1540	72.6	43	58.5	M25	19 30 210 1441
	72.6	43	57	M25	19 30 210 1541	72.6	43	58.5	M20	19 30 210 1440
	72.6	43	72	M32	19 30 210 0547	72.6	43	72	M32	19 30 210 0447
Han® 16 B	93.5	43	62.5	M25	19 30 216 1541	93.5	43	61	M25	19 30 216 1441
	93.5	43	62.5	M32	19 30 216 1542	93.5	43	61	M32	19 30 216 1442
	93.5	43	76	M32	19 30 216 0547	93.5	43	76	M32	19 30 216 0447
	93.5	43	76	M40	19 30 216 0548	93.5	43	76	M40	19 30 216 0448
Han® 24 B	120	43	62.5	M25	19 30 224 1541	120	43	71	M32	19 30 224 1442
	120	43	62.5	M32	19 30 224 1542	120	43	76	M32	19 30 224 0447
	120	43	76	M32	19 30 224 0547	120	43	76	M40	19 30 224 0448
	120	43	76	M40	19 30 224 0548					

Housings Han® HMC with Metric Cable Entries



	Bulkhead-mounted housing						Surface mounted housings (2 side entries except Han® 3 A)							
Single locking lever														
Drawing Dimensions in mm														
	a	b	c	e	h	Part number Single locking lever	a	b	c	e	h	M	Part number Single locking lever	
Han® 6 B	70	80	32	43,4	28,9	09 30 206 0301	70	82	45	57	73,8	M25	19 30 206 0291	
							70	82	45	57	73,8	M32	19 30 206 0292	
Han® 10 B	83	93	32	43,4	28,9	09 30 210 0305	82	94	40	52	53,8	M20	19 30 210 1290	
							82	94	45	57	80,8	M25	19 30 210 0291	
							82	94	45	57	80,8	M32	19 30 210 0292	
Han® 16 B	103	113	32	43,4	28,9	09 30 216 0307	105	117	45	57	55,8	M25	19 30 216 1291	
							105	117	45	57	80,8	M25	19 30 216 0291	
							105	117	45	57	80,8	M32	19 30 216 0292	
Han® 24 B	130	140	32	43,4	28,9	09 30 224 0307	132	144	45	57	55,8	M25	19 30 224 1291	
							132	144	45	57	80,8	M32	19 30 224 0292	

Crimp Contacts and Crimping Tools



5 A - D-Sub	Cross-section / Wire gauge				male (gold plated)	female (gold plated)	male (HMC gold plated)	female (HMC gold plated)
	(mm ²)	(AWG)						
	0.09 - 0.25	28 - 24			09 67 000 7576	09 67 000 7476	09 67 000 7570	09 67 000 7470
	0.13 - 0.33	26 - 22			09 67 000 5576	09 67 000 5476	09 67 000 5570	09 67 000 5470
	0.25 - 0.52	24 - 20			09 67 000 8576	09 67 000 8476	09 67 000 8570	09 67 000 8470
10 A - Han D®	Cross-section / Wire gauge		male (silver plated)	female (silver plated)	male (gold plated)	female (gold plated)	male (HMC gold plated)	female (HMC gold plated)
	(mm ²)	(AWG)						
	0.14 - 0.37	26 - 22	09 15 000 6104	09 15 000 6204	09 15 000 6124	09 15 000 6224	09 15 200 6124	09 15 200 6224
	0.5	20	09 15 000 6103	09 15 000 6203	09 15 000 6123	09 15 000 6223	09 15 200 6123	09 15 200 6223
	0.75	18	09 15 000 6105	09 15 000 6205	09 15 000 6125	09 15 000 6225	09 15 200 6125	09 15 200 6225
	1	18	09 15 000 6102	09 15 000 6202	09 15 000 6122	09 15 000 6222	09 15 200 6122	09 15 200 6222
	1.5	16	09 15 000 6101	09 15 000 6201	09 15 000 6121	09 15 000 6221	09 15 200 6121	09 15 200 6221
2.5	14	09 15 000 6106	09 15 000 6206	09 15 000 6126	09 15 000 6226	09 15 200 6126	09 15 200 6226	
16 A - Han E®	Cross-section / Wire gauge		male (silver plated)	female (silver plated)	male (gold plated)	female (gold plated)	male (HMC gold plated)	female (HMC gold plated)
	(mm ²)	(AWG)						
	0.14 - 0.37	26 - 22	09 33 000 6127	09 33 000 6227	09 33 000 6117	09 33 000 6217	09 33 200 6117	09 33 200 6217
	0.5	20	09 33 000 6121	09 33 000 6220	09 33 000 6122	09 33 000 6222	09 33 200 6122	09 33 200 6222
	0.75	18	09 33 000 6114	09 33 000 6214	09 33 000 6115	09 33 000 6215	09 33 200 6115	09 33 200 6215
	1	18	09 33 000 6105	09 33 000 6205	09 33 000 6118	09 33 000 6218	09 33 200 6118	09 33 200 6218
	1.5	16	09 33 000 6104	09 33 000 6204	09 33 000 6116	09 33 000 6216	09 33 200 6116	09 33 200 6216
	2.5	14	09 33 000 6102	09 33 000 6202	09 33 000 6123	09 33 000 6223	09 33 200 6123	09 33 200 6223
	3	12	09 33 000 6106	09 33 000 6206				
4	12	09 33 000 6107	09 33 000 6207	09 33 000 6119	09 33 000 6221	09 33 200 6119	09 33 200 6221	
40 A - Han® C	Cross-section / Wire gauge		male (silver plated)	female (silver plated)			male (HMC gold plated)	female (HMC gold plated)
	(mm ²)	(AWG)						
	1.5	16	09 32 000 6104	09 32 000 6204			09 32 200 6114	09 32 200 6224
	2.5	14	09 32 000 6105	09 32 000 6205			09 32 200 6115	09 32 200 6225
	4	12	09 32 000 6107	09 32 000 6207			09 32 200 6117	09 32 200 6227
	6	10	09 32 000 6108	09 32 000 6208			09 32 200 6118	09 32 200 6228
Crimping tools	Crimping tools acc. to IEC 60352-2		09 99 000 0501	09 99 000 0021	09 99 000 0110	09 99 000 0303	09 99 000 0377	09 99 000 0888
	Contacts cross-section [mm ²]		D-Sub 0.09 ... 0.52	Han D® 0.14 ... 1.5	Han D® 0.14 ... 1.5	Han® C 4.0 ... 10.0	Han® C 6.0 ... 10.0	Han D® 0.14 ... 2.5
				Han E® 0.5 ... 2.5	Han E® 0.5 ... 4.0			Han E® 0.14 ... 4.0
				Han® C 1.5 ... 4.0			Han® C 1.5 ... 4.0	

Han® HC	Cross-section / Wire gauge		male (silver plated)	female (silver plated)	Crimp dies acc. to DIN 46235	Battery hydraulic crimping tool (10 - 70 mm²)	Hydraulic handtool (10 - 70 mm²)
	(mm²)	(AWG)					
						09 99 000 0850	09 99 000 0851
70 A	10		09 11 000 6131	09 11 000 6231	09 99 000 0852		
	16		09 11 000 6132	09 11 000 6232	09 99 000 0853		
	25		09 11 000 6133	09 11 000 6233	09 99 000 0854		
100 A	10		09 11 000 6114	09 11 000 6214	09 99 000 0852		
	16		09 11 000 6116	09 11 000 6216	09 99 000 0853		
	25		09 11 000 6125	09 11 000 6225	09 99 000 0854		
	35		09 11 000 6135	09 11 000 6235	09 99 000 0855		
200 A	25		09 11 000 6120	09 11 000 6220	09 99 000 0854		
	35		09 11 000 6121	09 11 000 6221	09 99 000 0855		
	50		09 11 000 6122	09 11 000 6222	09 99 000 0856		
	70		09 11 000 6123	09 11 000 6223	09 99 000 0857		

Insertion / removal tools for crimp contacts	Identification	mm²	Part number	Depiction	
	Insertion tool for crimp contacts small cross-section, variable length of blade Han D®, Han E®, Han-Yellock® When using cross-sections below 0.75 mm² an insertion tool for inserting the contact into the insert is recommended.			09 99 000 0847	
	Han D®, Removal tool for crimp contacts		09 99 000 0012		
	Han® C, Removal tool for crimp contacts	1.5 – 6 10	09 99 000 0305 09 99 000 0381		
	Han E®, Removal tool for crimp contacts		09 99 00 0319		
	D-Sub, Insertion / removal tool for crimp contacts		09 99 000 0368		

Stripping tool self-adjusting	0.03 – 10	09 99 000 0808	
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