

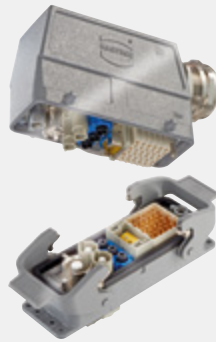
PEOPLE. POWER. PARTNERSHIP.

HARTING

Han-Modular® Connectors

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.

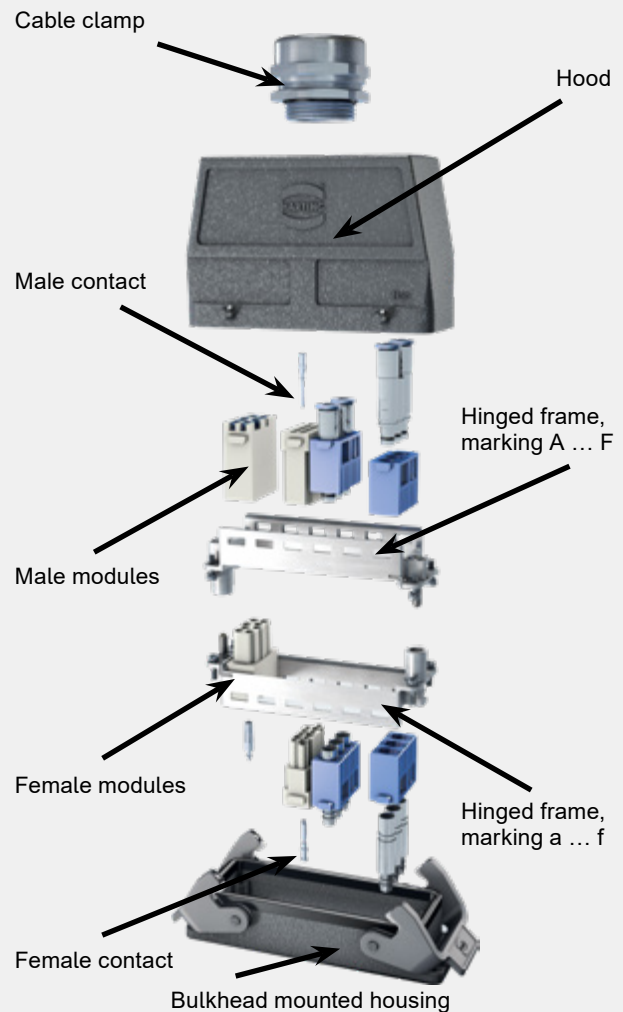


Further additional solutions are available, e.g. suitable docking frames for drawer units. Individual customer requirements can be realised by means of the Han-Modular® series. Combining various transmission media in one single connector results in lower expenditures in installation time and production 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 and approvals

- DIN EN 61984 / DIN EN 60664-1
- UL File No. E235076 / E318390
- DNV GL Certificate No. TAE00003MY / TAA00002EU

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

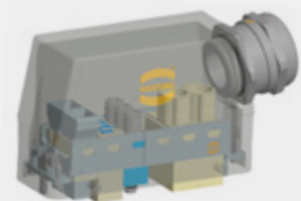
- Hinged frames zinc die cast
- Modules polycarbonate
- Contacts copper alloy

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

Configuration of the Han-Modular® connectors

Use the Han® Online Configurator and quickly and easily assemble your Han-Modular® interface and benefit from the advantages.

- Ensure the compatibility of the components with each other
- Selection always in view through interactive 3D visualization
- Documentation via download package for the complete interface
- Working in a team using the save, load and share function



You can find the Han® configurator at: www.harting.com/configurator

Hinged Frames Plus – the market standard



Suitable for more than 100 different modules



Quick and easy assembly supported by an audible “Click”



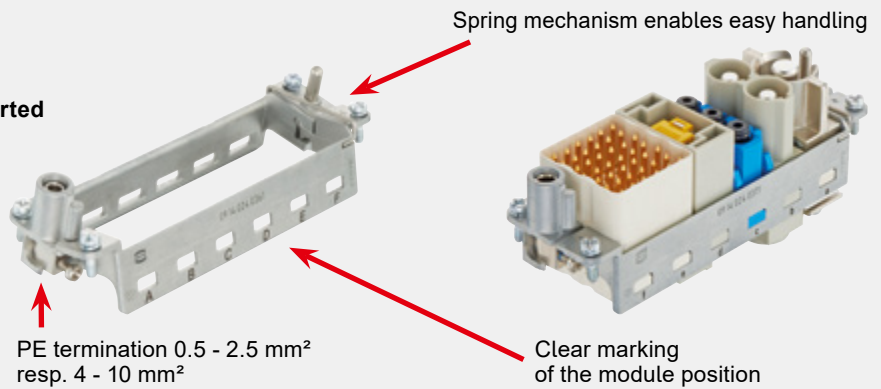
Very high mechanical stability



No tools for insertion and removal



2 leading PE contacts



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
Hinged frames (A ... F)	09 14 006 0361	09 14 010 0361	09 14 016 0361	09 14 024 0361
Hinged frames (a ... f)	09 14 006 0371	09 14 010 0371	09 14 016 0371	09 14 024 0371
HMC Hinged frames (A ... F)	09 14 206 0303	09 14 210 0303	09 14 216 0303	09 14 224 0303
HMC Hinged frames (a ... f)	09 14 206 0313	09 14 210 0313	09 14 216 0313	09 14 224 0313

Frames

Size	Hinged frames L32 B	Han® 10 A frame		
Number of modules	for 8 modules	for 1 modules		
Hinged frames (A ... F)	09 14 032 0361	09 14 003 0304		
Hinged frames (a ... f)	09 14 032 0371			

Accessories

Size	Han-Modular® Guard for hinged frames plus	Coding element Han® 6 B - 24 B	Guide pins / bushes Han® 6 B - 24 B	
Note	Guiding, colour coding, protection	6 codings	16 codings	
Part number	09 14 000 999x	09 14 000 9901	Male: 09 14 000 9908 Female: 09 14 000 9909	

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

Docking frame							
Docking frame	<ul style="list-style-type: none"> - 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) - Removal of the modules with tool 09 99 000 0331 						
	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		
	Cover		09 14 010 5701	09 14 016 5701	09 14 024 5701		
Docking frame IP 67	Size	Docking frame 6 B	Docking frame 10 B	Docking frame 16 B	Docking frame 24 B		
	Number of modules	for 2 modules	for 3 modules	for 4 modules	for 6 modules		
	Dimensions	63.8 x 33 mm	79.3 x 45 mm	94 x 45 mm	123.4 x 45 mm		
	Fix mounting (a ... f)	09 30 006 1710	09 30 010 1710	09 30 016 1710	09 30 024 1710		
Docking frame ≥ 10.000	Size	Docking frame 6 B	Docking frame 10 B	Docking frame 16 B	Docking frame 24 B		
	Number of modules	for 2 modules	for 3 modules	for 4 modules	for 6 modules		
	Dimensions	86 x 55 mm	99 x 55 mm	119.5 x 55 mm	146 x 55 mm		
Float mounting	09 30 006 1704	09 30 010 1704	09 30 016 1704	09 30 024 1704			

Han-Modular® and Han® 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 mm²	Metal hoods/housings IP65 2 modules 0.5 ... 10 mm²	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 09 14 001 0301+ Hood 09 14 001 5401	09 14 002 0301 09 14 002 0301+ Hood 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 9929	09 14 000 9929

Han® Size 4 B


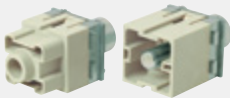



















	Han® 4 B	Han® HPR 4 B	Han® HPR 4 B	Han-Eco® Modular
Size Hoods/Housings type Locking element Number of modules PE termination	Metall IP 65 Han-Easy Lock® 2 moduls 0.5 ... 6 mm²	Metall IP 68 Screw locking 2 moduls 0.5 ... 6 mm²	Metall IP 68 Zentral lever 2 moduls 0.5 ... 6 mm²	Plastic IP 65 Plastic levers 2 moduls without PE
				No mounting frame required
Male	09 14 004 0301	09 14 004 0301	09 14 004 0301	09 14 004 0301
Female	09 14 004 0311	09 14 004 0311	09 14 004 0311	09 14 004 0311
Hoods				
M20	19 20 004 1440	19 40 004 0410	19 40 004 0480	19 41 104 0445
M25	19 20 004 1441	19 40 004 0411	19 40 004 0481	19 41 104 0446
M32	19 20 004 1442	19 40 004 0412	19 40 004 0482	19 41 104 0447
Cover	09 20 004 5421	09 40 004 5412	09 40 004 5484	19 41 004 5406
Bulkhead mounted housing				
	09 20 004 0301	09 40 004 0311	09 40 004 0381	19 41 004 0301
Cover	09 20 004 5432	09 40 004 5411	09 40 004 5481	19 41 004 5405

For more details and part numbers refer to the HARTING eCatalogue <https://www.harting.com>

Han-Modular® Hoods/Housings	<p>Hoods/Housings type Locking element Field of application Number of modules</p>	<p>Han-Eco® Modular Plastic hoods/housings IP65 Plastic levers Industrial applications 3, 4, 5, 7 modules</p> 	<p>Han-Yellock® Metal hoods/housings IP65 Press-button Industrial applications 2, 4 modules</p> 	<p>Han-Modular® Flexbox Plastic hoods/housings IP54 screw locking e.g. energy chain up to 4 x 4 modules</p> 	
	Part numbers	19 41 ...	11 ...	09 14 000 8...	
Hoods/housings for hinged frame	<p>Han® B Metal hoods/housings IP65 Han-Easy Lock® Industrial applications</p>  <p>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 - Han® L32 B for 8 modules</p>	<p>Han® EMC Metal hoods/housings IP65 Han-Easy Lock® shielded connections</p> 	<p>Han® M Metal hoods/housings IP65 Stainless steel levers Outdoor applications</p> 	<p>Han® HPR Metal hoods/housings IP68 Screw locking Rail technology</p> 	
	Part numbers	09 30 ... / 19 30 ...	09 62 ... / 19 62 ...	09 37... / 19 37...	09 40 ... / 19 40 ...
Installation without housing	<p>Han® HMC Metal hoods/housings IP65 Han-Easy Lock® up to 10.000 mating cycles</p>  <p>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</p>	<p>Han-INOX® Stainless steel Stainless steellocking</p> 	<p>Han-Eco® B Plastic hood/housings Plastic levers Industrial applications</p> 	<p>Han® HPR Compact Metal hood IP 68 screw locking Railway</p> 	
	Part numbers	09 30 2 ... / 19 30 2 ...	19 44...	19 43 ...	09 40 ... / 19 40
Hoods/housings for hinged frame	<p>Grip panel Metal mounting frame IP20 Screw locking within switch cabinet 2, 3, 4, 6 modules</p>  <p>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</p>	<p>Docking frame Metal frame IP20 without locking for drawer systems 2, 3, 4, 6 modules</p> 	<p>Han-Snap® Plastic adapter IP20 Snap locking within switch cabinet</p> 	<p>Module clamp Plastic mounting frame IP20 Snap locking within switch cabinet 1 module</p> 	
	Part numbers	09 00 0xx 56 ...	09 30 0xx 1704	09 33 ...	09 14 000 0312 09 14 000 0313








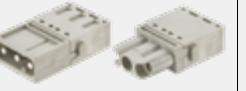



For more details and part numbers refer to the HARTING eCatalogue <https://www.harting.com>

PE	Han® 300 A PE module	Han® 200 A PE module	Han® PE module	Han® PE module	Han® PE module
					
	1 x PE* 300 A Axial screw termination 95 ... 120 mm ²	1 x PE* 200 A Axial screw termination 40 ... 70 mm ²	1 x PE 100 A Axial screw termination 16 ... 35 mm ²	1 x PE* 300 A Crimp termination, Han®HC 35 mm ²	1 x PE* 200 A Crimp termination, Han®HC 16 mm ²
	(M) 09 14 001 2681	09 14 001 2667	09 14 001 2633	09 14 001 3074	09 14 001 3072
	(F) 09 14 001 2781	09 14 001 2767	09 14 001 2733	09 14 001 3174	09 14 001 3172
		25 ... 40 mm ²	10 ... 25 mm ²	25 mm ²	10 mm ²
(M)	09 14 001 2668	09 14 001 2632	09 14 001 3073	09 14 001 3071	
(F)	09 14 001 2768	09 14 001 2732	09 14 001 3173	09 14 001 3171	
200 - 400 A	Han® 400 A module	Han® 300 A module	Han® 200 A module	Han® 200 A module	Han® 200 A module
					
	1 x PE* 400 A Crimp termination 95 ... 185 mm ²	1 contact* 300 A / 1000 V Crimp termination, Han®HC 95 ... 120 mm ²	1 contact* 200 A / 1000 V Crimp termination, Han®HC 25 ... 70 mm ²	1 contact* 200 A / 1000 V Axial termination 40 ... 70 mm ²	1 contact* 200 A / 1000 V Axial termination 25 ... 40 mm ²
	(M) 97 00 000 3455	09 14 001 3004	09 14 001 3003	09 14 001 2662	09 14 001 2663
(F) 97 00 000 3453	09 14 001 3104	09 14 001 3103	09 14 001 2762	09 14 001 2763	
100 A	Han® 100 Axial module	Han® 100 Axial module	Han® 100 Crimp module	Han® 100 Single module	Han® 100 Single module protected
					
	2 contacts* 100 A / 1000 V Axial screw termination 16 ... 35 mm ²	2 contacts* 100 A / 1000 V Axial screw termination 10 ... 25 mm ²	2 contacts* 100 A / 1000 V Crimp termination, Han®HC 10 ... 35 mm ²	1 contacts 100 A / 830 V Crimp termination, Han®HC 10 ... 35 mm ²	1 contacts, protected 100 A / 830 V Crimp termination, Han®HC 10 ... 35 mm ²
	(M) 09 14 002 2651	09 14 002 2653	09 14 002 3051	09 14 001 3031	09 14 001 3035
(F) 09 14 002 2451	09 14 002 2753	09 14 002 3151	09 14 001 3131	09 14 001 3131	
70 A	Han® 70 Axial module	Han® 70 Axial module	Han® 70 A Crimp module	Han® 70 A Crimp module	
					
	2 contacts 70 A / 1000 V Axial screw termination 14 ... 22 mm ²	2 contacts 70 A / 1000 V Axial screw termination 6 ... 16 mm ²	2 contacts 70 A / 1000 V Crimp termination, Han® HC 6 ... 25 mm ²	2 contacts 70 A / 1500 V Crimp termination, Han® HC 10 ... 25 mm ²	
	(M) 09 14 002 2647	09 14 002 2646	09 14 002 3041	09 14 002 3042	
(F) 09 14 002 2742	09 14 002 2741	09 14 002 3141	09 14 002 3142		

(M) = Part numbers Male Module (F) = Part numbers Female Module * Double module, requires two places in the frame

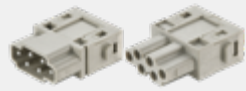






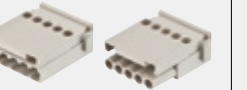


Power Module 40 A



40 A		 2 contacts 40 A / 1000 V Crimp termination, Han® C 1.5 ... 10 mm ²	 2 contacts 40 A / 1000 V Axial termination 6 ... 10 mm ²	 2 contact 40 A / 1000 V Axial termination 2.5 ... 8 mm ²		 2 contacts* 40 A / 2900 / 500 V Crimp termination, Han® C 1.5 ... 10 mm ²
	(M)	09 14 002 3002	09 14 002 2602	09 14 002 2601		09 14 002 3023
	(F)	09 14 002 3102	09 14 002 2702	09 14 002 2701		09 14 002 3123
40 A		 3 contacts 40 A / 500 V Crimp termination, Han® C 1.5 ... 6 mm ²	 3 contacts 40 A / 690 V Axial termination 6 ... 10 mm ²	 3 contacts 40 A / 690 V Axial termination 2.5 ... 8 mm ²	 3 contacts 40 A / 690 V Push-In termination 0.5 ... 6 mm ²	
	(M)	09 14 003 3001	09 14 003 2602	09 14 003 2601		09 14 003 5001
	(F)	09 14 003 3101	09 14 003 2702	09 14 003 2701		09 14 003 5101
40 A		 4 contacts 40 A / 830 V Crimp termination, Han® C 1.5 ... 6 mm ²	 4 contacts 40 A / 690 V Push-In termination 1.5 ... 6 mm ²	 3 + 4 contacts 40 A + 10 A / 830 V Crimp termination, Han® C+D 0.14 ... 6 mm ²		
	(M)	09 14 004 3041	09 14 004 5001	09 14 007 3001		
	(F)	09 14 004 3141	09 14 004 5101	09 14 007 3101		


Power Module 16 A



16 A		 6 contacts 16 A / 500 V Push-In termination 0.5 ... 2.5 mm ²	 6 contacts 16 A / 500 V Crimp termination, Han E® 0.14 ... 4 mm ²	 6 contacts 16 A / 830 V Crimp termination, Han E® 0.14 ... 4 mm ²	 8 contacts 16 A / 400 V Push-In termination 0.5 ... 2.5 mm ²	 8 contacts 16 A / 400 V Crimp termination, Han E® 0.14 ... 4 mm ²
	(M)	09 14 006 5001	09 14 006 3001	09 14 006 3041	09 14 008 5001	09 14 008 3001
	(F)	09 14 006 5101	09 14 006 3101	09 14 006 3141	09 14 008 5101	09 14 008 3101
16 A		 20 contacts 16 A / 500 V Crimp termination, Han E® 0.14 ... 4 mm ²	 5 contacts 16 A / 400 V Cage clamp termination 0.14 ... 2.5 mm ²	 5 contacts 16 A / 230 / 400 V Screw termination 0.5 ... 2.5 mm ²	 2 contacts 16 A / 5000 V Crimp termination, Han E® 0.14 ... 4 mm ²	 2 contacts 16 A / 2500 V Crimp termination, Han E® 0.14 ... 4 mm ²
	(M)	09 14 020 3001	09 14 005 2616	09 14 005 2601	09 14 002 3021	09 14 002 3025
	(F)	09 14 020 3101	09 14 005 2716	09 14 005 2701	09 14 002 3121	09 14 002 3125




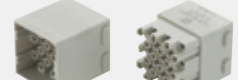

Power Module 16 A






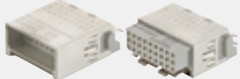

16 A	Han® Shielded Power module				
	 <p>4 + 2 + shielding 16 A + 10 A / 400 V Crimp, Han E® + Han D®</p>				
	0.14 ... 4 mm ²				
	(M)	09 14 006 3021			
(F)	09 14 006 3121				

Signal Modules up to 10 A






10 A	Han DD® Push-In module		Han DD® module		Han® DDD module		Han DD® double module		Han DD® Quad module	
	 <p>12 contacts 10 A / 250 V Push-In termination 0.14 ... 1.5 mm²</p>		 <p>12 contacts 10 A / 250 V Crimp termination, Han® D 0.14 ... 2.5 mm²</p>		 <p>17 contact 10 A / 160 V Crimp termination, Han® D 0.14 ... 2.5 mm²</p>		 <p>36 contacts* 10 A / 400 V Crimp termination, Han® D 0.14 ... 2.5 mm²</p>		 <p>42 contacts* 10 A / 150 V Crimp termination, Han® D 0.14 ... 2.5 mm²</p>	
	(M)	09 14 012 5001	09 14 012 3002	09 14 017 3001	09 14 036 3002	09 14 042 3001				
	(F)	09 14 012 5101	09 14 012 3102	09 14 017 3101	09 14 036 3102	09 14 042 3101				

4 A	Han® High Density module		Han® Full High Density module					
	 <p>25 contacts 4 A / 50 V Crimp termination, D-Sub 0.08 ... 0.52 mm²</p>		 <p>36 contacts 4 A / 32 V Crimp termination, D-Sub 0.08 ... 0.52 mm²</p>					
	(M)	09 14 025 3001	09 14 036 3001					
	(F)	09 14 025 3101	09 14 036 3101					

Shielded modules	Han® D-Sub module		Han® Shielded module basic+		Han® Shielded module basic+			
	 <p>9 contacts + shielding 5 A / 50 V Crimp termination, D-Sub 0.08 ... 0.52 mm²</p>		 <p>27 contacts + 180° shielding 4 A / 32 V Crimp termination, D-Sub 0.09 ... 0.5 mm²</p>		 <p>27 contacts + 360° shielding 4 A / 32 V Crimp termination, D-Sub 0.09 ... 0.5 mm²</p>			
	(M)	09 14 009 3001	09 14 027 3021	09 14 027 3022				
	(F)	09 14 009 3101	09 14 027 3121	09 14 027 3122				





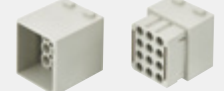







Further Modules



Accessory modules	Han® Dummy module		Han® Guiding Dummy module		Han® Guiding Relay module			
	 <p>To fill-up empty module places</p>		 <p>To fill-up empty module places, additional guiding function</p>		 <p>2 contacts with relay function (last mate - first break) Crimp termination, Han E® Relay contacts necessary</p>			
	(M)	09 14 000 9950	09 14 003 3050	09 14 003 3051				
	(F)		09 14 003 3150	09 14 003 3151				











Further Modules



Coaxial and Optical modules		Han® LC	Han® SC module	Han® Multi module (D-Sub)	Han® Multi module (DIN)	Han® Multi doublemodule*
						
		6 FO contacts (LC) single-mode multi-mode	4 FO contacts (LC) 1 mm POF single-mode multi-mode	4 Coax contacts 50 + 75 Ω (RG58, RG179, RG187, RG174, RG188, RG316)	4 Coax / FO contacts Coaxial 50 + 75 Ω 1 mm POF multi-mode	4 Coax / FO contacts Coaxial 50 + 75 Ω 1 mm POF multi-mode
(M)	09 14 006 4701	09 14 004 4701	09 14 004 4501	09 14 004 4501	09 14 012 4501	
(F)	09 14 006 4711	09 14 004 4711	09 14 004 4514	09 14 004 4512	09 14 012 4512	
Han-Smart		Ethernet-Switch module*	ID CAN module	ID Profinet module	Surge protection module	
						
		4 Ports (RJ45) Full Gigabit Ethernet	10 MB Flash Module for identifying industrial components CANopen Communication	32 KB Flash Module for identifying industrial components	0.5 A / 24 V DC Surge protection for four individual wires	
(M)	(RJ male module)	09 80 015 0100	09 80 615 0100	09 80 000 0101		
(F)	09 80 113 0400	09 80 115 0200	09 80 615 0200	09 80 003 0201		
Han-Eco® module		Han-Eco® PE module	Han® Guiding PE module	Han-Eco® Monoblock		
						
		PE contac only for Han-Eco® Hoods 1.5 ... 16 mm ² Screw termination	only for Han-Eco® hoods 2 Contacts + PE 16 A / 400 V 0.14 ... 4 mm ² Crimp termination, Han E®	only for Han-Eco® hoods 10, 14, 20, 28 + PE 16 A / 500 V 0,5 ... 2.5 mm ² Screw termination		
(M)	19 41 001 2600	09 14 003 3052	19 41 0xx 2601			
(F)	19 41 001 2700	09 14 003 3152	19 41 0xx 2701			

Pneumatic Modules



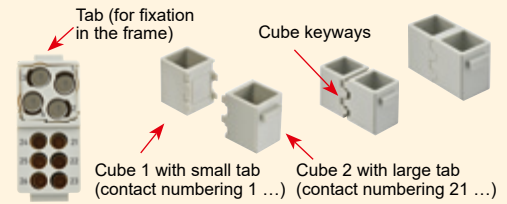
3 - 6 mm Tubes	Pneumatic module	Contacts (≤ 10 bar)			Module / 3 contacts
					
	For tube diameter Ø	6 mm OD	4 mm OD	3 mm OD	Male module (M) 09 14 003 3501
	Male contact	09 14 000 6356	09 14 000 6354	09 14 000 6353	Female module (M) 09 14 003 3501
	Female without shut-off	09 14 000 6456	09 14 000 6454	09 14 000 6453	
Pneumatic double module	09 14 000 6466	09 14 000 6464	09 14 000 6463		
8 + 10 mm Tubes	Pneumatic Double module	Contacts (≤ 10 bar)			Module / 2* contacts
					
	For tube diameter Ø	8 mm OD	10 mm OD	10 mm ID	Male module (M) 09 14 002 3501
	Male contact	09 14 000 6358	09 14 000 6350	09 14 000 6310	Female module (F) 09 14 002 3502
	Female without shut-off	09 14 000 6458	09 14 000 6450	09 14 000 6410	
Pneumatic double module	09 14 000 6468	09 14 000 6460	09 14 000 6411		

(M) = Part numbers Male Module (F) = Part numbers Female Module * Double module, requires two places in the frame

Han® RJ45 modules	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	Male module (M) 09 14 001 4623	Female module (F) 09 14 001 4721	Female module (F) 09 14 001 4722
	Adapter for patch cable: 09 14 000 9966	RJ Industrial IDC: 09 45 400 1560		RJ45 female IDC: 09 14 545 1561	RJ45 female preLink: 09 14 008 4720
	Patch cable cat. 6: 09 47 474 71xx				
Han® M12 modules	Han® M12 module	Han® M12 GND module	Han® M12 inserts (cable Ø 5.5 ... 8.7 mm)		
			M12 insert X-Coded	M12 insert D-Coded	M12 insert A-Coded
	Module for two Han® M12 inserts	Version with additional shielding termination to the hinged frame	 10 Gbit/s (cat. 6A) 8 contacts + shielding 0.5 A / 32 V 0.08 ... 0.25 mm ² Crimp termination, <i>har-speed</i>	 100 Mbit/s (cat. 5e) 4 contacts + shielding 4 A / 32 V 0.13 ... 0.82 mm ² Crimp termination, D-Sub	 8 contacts + shielding 2 A / 30 V 0.13 ... 0.33 mm ² Crimp termination, M12
	(M) 09 14 002 3061	09 14 002 3062	09 14 881 1805	09 14 881 1405	09 14 821 1805
(F) 09 14 002 3161	09 14 002 3162	09 14 881 2805	09 14 881 2405	09 14 821 2805	
Han-Quintax® modules	Han-Quintax® module	Han-Quintax® inserts (cable Ø 3 ... 9.5 mm)			
		Han-Quintax® insert	Han® High Density Quintax	Han D® Coax insert	Han E® Coax insert
	Module for two Han-Quintax® inserts	 100 Mbit/s (cat. 5e) 4 contacts + shielding 10 A / 50 V 0.14 ... 2.5 mm ² Crimp termination, Han D®	 100 Mbit/s (cat. 5e) 8 contacts + shielding 5 A / 50 V 0.09 ... 0.52 mm ² Crimp termination, D-Sub	 ≤ 500 Mhz / 75 Ω 1 contact + shielding 10 A / 50 V 0.14 ... 2.5 mm ² Crimp termination, Han D®	 ≤ 500 Mhz / 50 Ω 1 contact + shielding 16 A / 50 V 0.14 ... 4 mm ² Crimp termination, Han E®
	(M) 09 14 002 3004	09 15 004 3013	09 15 008 3013	09 15 001 3013	09 15 001 3023
(F) 09 14 002 3104	09 15 004 3113	09 15 008 3113	09 15 001 3113	09 15 001 3123	
<i>Optional shield connection to the hinged frame with the Han-Quintax metal adapter 09 14 000 9915</i>					
Han® Gigabit & Han® Megabit modules	Adapter module	Han® Gigabit / Han® Megabit inserts (cable Ø ≤ 14 mm)			
		Han® Gigabit insert	Han® Gigabit cat. 8 insert	Han® Megabit insert 2 cable entries Ø 10 mm	Han® Megabit insert 1 cable entry
	Module for one - Han Gigabit insert - Han Megabit insert - Han Shielded insert	 10 Gbit/s (cat. 6A) 8 contacts + shielding 5 A / 60 V DC 0.09 ... 0.52 mm ² Crimp termination, D-Sub	 40 Gbit/s (cat. 8.2) 8 contacts + shielding 5 A / 60 V DC 0.09 ... 0.52 mm ² Crimp termination, D-Sub	 2 x 100 Mbit/s (cat. 5e) 2 x 4 contacts + shielding 10 A / 50 V 0.14 ... 2.5 mm ² Crimp termination, HanD®	 1 Gbit/s (cat. 5e) 2 x 4 contacts + shielding 10 A / 50 V 0.14 ... 2.5 mm ² Crimp termination, Han D®
	(M) 09 14 001 3011	09 14 008 3011	09 14 008 3034	09 14 008 3016	09 14 008 3021
(F) 09 14 001 3111	09 14 008 3111	09 14 008 3134	09 14 008 3116	09 14 008 3121	
(M) With shield connection to the hinged frame	09 14 008 3012	09 14 008 3035	09 14 008 3017	09 14 008 3022	
(F) 09 14 001 3111	09 14 008 3112	09 14 008 3135	09 14 008 3117	09 14 008 3122	
Shielded modules	Han® Shielded insert	Han® USB module	Han® Fire Wire module		
	 20 contacts + shielding 4 A / 32 V 0.09 ... 0.52 mm ² Crimp termination, D-Sub	 8 contacts + shielding 1 A / 50 V (USB 3.0) for USB Patchkabel	 6 contacts + shielding 1 A / 50 V 400 Mbit/s (IEEE 1394a) for USB Patchkabel		
	(M) 09 14 020 3013	09 14 001 4601	09 14 001 4711		
(F) 09 14 020 3113	09 14 001 4703	09 14 001 4703			

(M) = Part numbers Male Module (F) = Part numbers Female Module * Double module, requires two places in the frame

Just as dominoes have two separate squares, a domino module is made up of two building blocks or cubes. The cubes can be flexibly joined to form modules as required. A Han-Modular® Domino module therefore enables the transmission of power, signals, data or compressed air, as male and female contacts can be combined in one domino module. **Each domino module consists of a cube with a small tab and a cube with a large tab.**



		Han® CC Push-In Cube	Han® CC Cube	Han EE® Push-In Cube	Han EE® Cube
Domino Power module					
		2 contacts 40 A / 500 V 1.5 ... 6 mm ² Push-In termination	2 contacts 40 A / 500 V 1.5 ... 6 mm ² Crimp termination	4 contacts 16 A / 400 V 0.14 ... 2.5 mm ² Push-In termination	4 contacts 16 A / 400 V 0.14 ... 4 mm ² Crimp termination Han E®
	Male-Cube small tab	97 00 000 3715	97 00 000 3705	97 00 000 3694	09 12 904 1001
	Male-Cube large tab	97 00 000 3716	97 00 000 3706	97 00 000 3695	09 12 904 2001
	Female-Cube small tab	97 00 000 3713	97 00 000 3703	97 00 000 3692	09 12 904 1101
Female-Cube large tab	97 00 000 3714	97 00 000 3704	97 00 000 3693	09 12 904 2101	
Domino Signal module					
		6 contacts 10 A / 250 V 0.14 ... 2.5 mm ² Crimp termination, Han D®	16 contacts 4 A / 32 V 0.09 ... 0.5 mm ² Crimp termination D-Sub	1 contacts 16 A / 400 V 0.14 ... 2.5 mm ² 4 x Push-In termination	without contact 16 A / 400 V 0.14 ... 2.5 mm ² 4 x Push-In termination
	Male-Cube small tab	09 14 906 1001	09 14 916 1001	97 00 000 1747	97 00 000 0333
	Male-Cube large tab	09 14 906 2001	09 14 916 2001	97 00 000 1748	97 00 000 0335
	Female-Cube small tab	09 14 906 1101	09 14 916 1101	97 00 000 0338	97 00 000 0333
Female-Cube large tab	09 14 906 2101	09 14 916 2101	97 00 000 0339	97 00 000 0335	
Data module					
			for 1 Han® M12 insert (see data transfer modules)	for 1 Han® M12 insert (with shield connection to the hinged frame)	for Patch cables USB 3.0 type C
	Male-Cube small tab	09 14 945 1001	09 14 921 1001	09 14 921 1002	97 00 000 0139
	Male-Cube large tab	09 14 945 2001	09 14 921 2001	09 14 921 2002	97 00 000 0142
	Female-Cube small tab	09 14 945 1101	09 14 921 1101	09 14 921 1102	97 00 000 0146
Female-Cube large tab	09 14 945 2101	09 14 921 2101	09 14 921 2102	97 00 000 0150	

(M) = Part numbers Male Module (F) = Part numbers Female Module

		Han® Carrier Cube	Han® Carrier GND Cube	Domino Megabit insert	Domino Gigabit insert
Cubes					
		for Han® Domino Megabit and Gigabit insert	(with shield connection to the hinged frame)	4 contacts + shielding 100 Mbit/s (cat 5e) Crimp termination, Han D®	8 contacts + shielding 10 Gbit/s (cat 6A) Crimp termination, har-speed
	Male-Cube small tab	97 00 000 0398	97 00 000 0418	male insert 97 00 000 0414	male insert 97 00 000 0408
	Male-Cube large tab	97 00 000 0430	97 00 000 0423	female insert 97 00 000 0413	female insert 97 00 000 0410
	Female-Cube small tab	97 00 000 0429	97 00 000 0417		
Female-Cube large tab	97 00 000 0428	97 00 000 0416			
Cubes		Dummy Cube	Pneumatic Cube	Cable clamp	Cable clamp
			1 contact ≤ 10 bar 3 + 4+6 mm	4 - 7 mm for Han Domino Megabit / Gigabit	7 - 10 mm for Han Domino Megabit / Gigabit
	Male-Cube small tab	09 14 900 1000	09 14 931 1001	97 00 000 0402	97 00 000 0403
Male-Cube large tab	09 14 900 2000	09 14 931 2001			

(M) = Part numbers Male Module (F) = Part numbers Female Module

Crimp Contacts and Crimping Tools



5A - D-Sub	Cross-section / Wire gauge				Male contact (gold plated)	Female contact (gold plated)	Male contact (HMC gold plated)	Female contact (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
10A - Han D®	Cross-section / Wire gauge		Male contact (silver plated)	Female contact (silver plated)	Male contact (gold plated)	Female contact (gold plated)	Male contact (HMC gold plated)	Female contact (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®								
	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								
	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 6119	09 32 200 6229
	6	10	09 32 000 6108	09 32 000 6208			09 32 200 6118	09 32 200 6228
	10	8	09 32 000 6109	09 32 000 6209			09 32 200 6117	09 32 200 6227
Crimping tools	Acc. to IEC 60352-2		09 99 000 0501	09 99 000 0021	09 99 000 0110	09 99 000 0377	09 99 000 0888	Removal tools
	D-Sub contacts		0.09 ... 0.82 mm ²					09 99 000 0368
	Han D® contacts			0.14 ... 1.5 mm ²	0.14 ... 1.5 mm ²		0.14 ... 2.5 mm ²	09 99 000 0012
	Han E® contacts			0.5 ... 2.5 mm ²	0.5 ... 4.0 mm ²		0.14 ... 4.0 mm ²	09 99 000 0319
Han® C contacts				1.5 ... 4.0 mm ²	4.0 ... 10.0 mm ²	1.5 ... 4.0 mm ²	09 99 000 0305	

General information:

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Crimp Contacts and Crimping Tools



Han® HC	Cross-section / Wire gauge		Male contact (silver plated)	Male contact (IP20 Touch-Proof)	Male contact (silver plated)	Male contact (HMC gold plated)	Female contact (HMC gold plated)	Crimp dies acc. to DIN 46235
	(mm²)	(AWG)						
70 A	10							
	16		09 11 000 6131	09 11 000 7100	09 11 000 6231	09 11 200 6131	09 11 200 6231	09 99 000 0852
	25		09 11 000 6132	09 11 000 7101	09 11 000 6232	09 11 200 6132	09 11 200 6232	09 99 000 0853
100 A	10		09 11 000 6133	09 11 000 7102	09 11 000 6233	09 11 200 6133	09 11 200 6233	09 99 000 0854
	16		09 11 000 6114	09 11 000 7111	09 11 000 6214	09 11 200 6114	09 11 200 6214	09 99 000 0852
	25		09 11 000 6116	09 11 000 7112	09 11 000 6216	09 11 200 6116	09 11 200 6216	09 99 000 0853
	35		09 11 000 6125	09 11 000 7113	09 11 000 6225	09 11 200 6125	09 11 200 6225	09 99 000 0854
200 A	25		09 11 000 6135	09 11 000 7114	09 11 000 6235	09 11 200 6135	09 11 200 6235	09 99 000 0855
	35		09 11 000 6120	09 11 000 7120	09 11 000 6220			09 99 000 0854
	50		09 11 000 6121	09 11 000 7121	09 11 000 6221			09 99 000 0855
	70		09 11 000 6122	09 11 000 7122	09 11 000 6222			09 99 000 0856
300 A	70		09 11 000 6123	09 11 000 7123	09 11 000 6223			09 99 000 0857
	95			09 11 000 7535	09 11 000 6635			09 99 000 0867
	120			09 11 000 7536	09 11 000 6636			09 99 000 0868
400 A	95			09 11 000 7537	09 11 000 6637			09 99 000 0869
	120			09 11 000 6575	09 11 000 6675			09 99 000 0868
	150			09 11 000 6576	09 11 000 6676			09 99 000 0869
	185			09 11 000 6577	09 11 000 6677			09 99 000 0870
	240			09 11 000 6578	09 11 000 6678			09 99 000 0871
								09 99 000 0872

Crimping Tools	Battery hydraulic crimping tool	Hand-Hydraulic crimping tool	Battery crimping Tool Set	Double-Indent Pneumatic crimping Tool
	09 99 000 0850 (60 kN - 70 mm²)	09 99 000 0851 (60 kN - 70 mm²)	09 99 000 0990 Han D®: 0.14 ... 1.5 mm² Han E®: 0.5 ... 4 mm² Han® C: 1.5 ... 4 mm²	09 99 000 1010 Han D®: 0.14 ... 2.5 mm², Han E®: 0.14 ... 4 mm², Han® C: 1.5 ... 10 mm², D-Sub, Han® ORV3 power: 4 ... 10 mm²
	09 99 000 0860 (120 kN)	09 99 000 0861 (120 kN)		

Crimping Machine	TK-M				TC-C		
	Series	Cable cross-section	Stripping length	Cange unit	Cable cross-section	Stripping length	Part number
	TK-M machine			09 98 000 6900			
	Han D®	0.14* - 2.5 mm²	8** mm²	09 98 000 6901	0.14 - 2.5 mm²	8 / 6 mm²	09 98 000 9001
	Han E®	0.14* - 4 mm²	7.5 mm²	09 98 000 6902	0.5 - 4 mm²	7.5 mm²	09 98 000 9002
	Han®C	1.5 - 6 mm²	9.5 mm²	09 98 000 6903	1.5 -10 mm²	9.5 / 12 mm²	09 98 000 9003
	D-Sub	0.08 - 0.82 mm²	4 mm²	09 98 000 6904			
	*Depending on the strande wire / ** 6 mm for Han D® 2.5 mm²						



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