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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



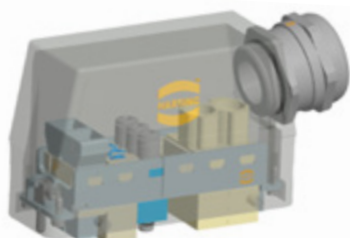
Future safe design due to easy extensions

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



System description

Cable clamp

Hood

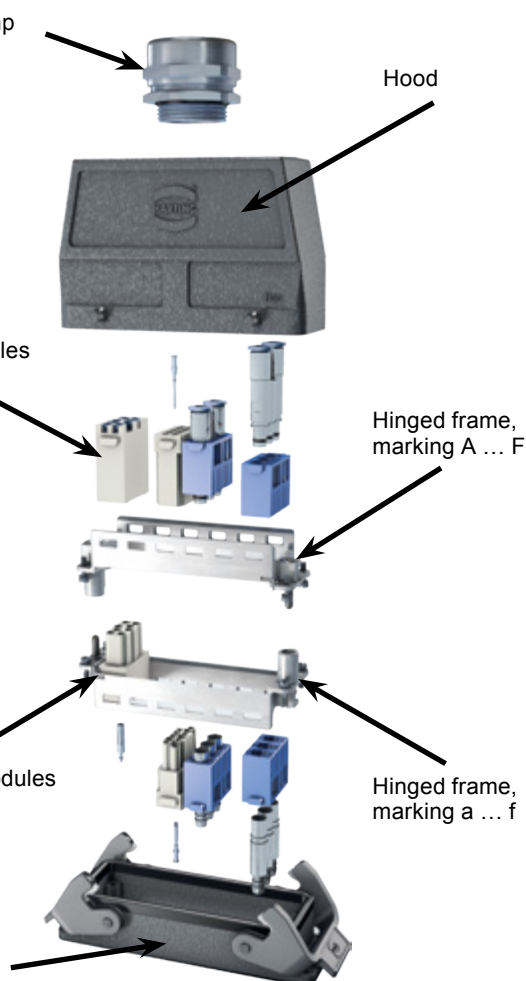
Male modules

Hinged frame, marking A ... F

Female modules

Hinged frame, marking a ... f

Bulkhead-mounted housing



		Han® 200 A Axial Module	Han® 200 A PE Module	Han® 100 A Axial Module	Han® PE Module
100 - 200 A					
	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 termination	Axial screw termination	Axial screw termination	Axial screw termination
	Cross-section	40 ... 70 mm²	40 ... 70 mm²	16 ... 35 mm²	16 ... 35 mm²
	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
	Cross-section	25 ... 40 mm²	25 ... 40 mm²	10 ... 25 mm²	10 ... 25 mm²
40 - 70 A					
	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 termination	Axial screw termination	Axial screw termination	Axial screw termination
	Cross-section	14 ... 22 mm²	14 ... 22 mm²	6 ... 10 mm²	6 ... 10 mm²
	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 mm²	6 ... 16 mm²	2.5 ... 8 mm²	2.5 ... 8 mm²
16 A					
	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 termination
	Cross-section	0.5 ... 2.5 mm²	0.5 ... 2.5 mm²	0.14 ... 2.5 mm²	0.5 ... 2.5 mm²
	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
	Cross-section	0.5 ... 2.5 mm²	0.5 ... 2.5 mm²	0.14 ... 2.5 mm²	0.5 ... 2.5 mm²
≤ 10 A					
	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 mm²	0.25 ... 1.5 mm²		
	Male module (M)	09 14 012 2632	09 14 012 2634		
	Female module (F)	09 14 012 2732	09 14 012 2734		
	Cross-section	0.25 ... 1.5 mm²	0.25 ... 1.5 mm²		
Axial screw termination	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

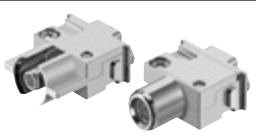
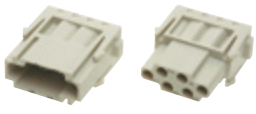
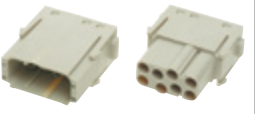
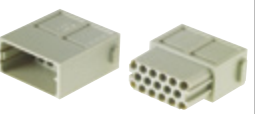
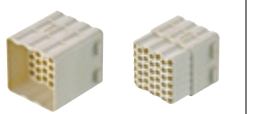
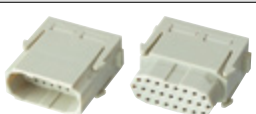
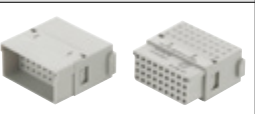
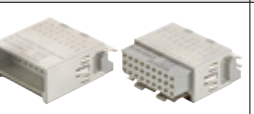
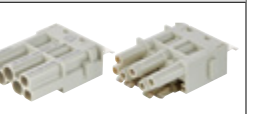
* Double module, requires two places in the frame

Modu-
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Summary



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		Han® PE module (Including crimp contact for earthing)			
PE	Number of contacts	1 x PE	1 x PE	1 x PE	
	Cross-section	35 mm²	25 mm²	16 mm²	
	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 mm²	10 ... 35 mm²	10 ... 35 mm²	6 ... 25 mm²
	Termination type	Crimp termination, Han® HC	Crimp termination, Han® HC	Crimp termination, Han® HC	Crimp termination, Han® HC
	Male module (M)	09 14 001 3003	09 14 002 3051	09 14 001 3031	09 14 002 3041
	Female module (F)	09 14 001 3103	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 mm²	1.5 ... 6 mm²	1.5 ... 6 mm²	0.14 ... 6 mm²
	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 mm²	0.14 ... 4 mm²	0.14 ... 4 mm²	0.14 ... 4 mm²
	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® double module	Han DD® Quad module
					
	Number of contacts	12	17	36*	42*
	Electrical data	10 A / 250 V	10 A / 150 V	10 A / 400 V	10 A / 150 V
	Cross-section	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²
	Termination type	Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, Han D®
	Male module (M)	09 14 012 3002	09 14 017 3001	09 14 036 3002	09 14 042 3001
	Female module (F)	09 14 012 3102	09 14 017 3101	09 14 036 3102	09 14 042 3101
Signal + Shielded		Han® High Density module	Han® Full High Density module	Han® Shielded module Basic	Han® Shielded Power module
					
	Number of contacts	25	36	27 + shielding	4 + 2 + shielding
	Electrical data	4 A / 50 V	4 A / 32 V	4 A / 32 V	16 A / 400 V
	Cross-section	0.08 ... 0.52 mm²	0.14 ... 0.5 mm²	0.09 ... 0.5 mm²	0.14 ... 4 mm²
	Termination type	Crimp termination, D-Sub	Crimp termination, D-Sub	Crimp termination, D-Sub	Crimp, Han E® + Han D®
	Male module (M)	09 14 025 3001	09 14 036 3001	09 14 027 3022	09 14 006 3021
	Female module (F)	09 14 025 3101	09 14 036 3101	09 14 027 3122	09 14 006 3121

* Double module, requires two places in the frame

Han
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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
		Patch cable cat. 6: 09 47 474 71xx			RJ45 female preLink: 09 14 008 4720
Han-Quintax® Modules		Han-Quintax®	Han® High Density Quintax	Han D® Coax	Han E® Coax
	Quintax modul				
	Number of contacts	2 x 4*	2 x 8*	2 x Coax*	2 x Coax*
	Male module (M)	09 14 002 3004	09 14 002 3004	09 14 002 3004	09 14 002 3004
	Female module (F)	09 14 002 3104	09 14 002 3104	09 14 002 3104	09 14 002 3104
	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®
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
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 ** Cat 7A version also available

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* Double module, requires two places in the frame

Han® Multi Module (for D-Sub coaxial contacts)

Han® Multi Module (for DIN 41626 coaxial contacts)



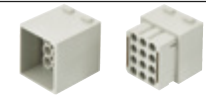
Number of contacts	4	4	12*	12*
Male module (M)	09 14 004 4501	09 14 004 4501	09 14 012 4501	09 14 012 4501
Female module (F)	09 14 004 4513	09 14 004 4513	09 14 012 4512	09 14 012 4512
Coaxial contacts (≤ 2 GHz)				
Impedance	75 Ω	50 Ω	75 Ω	50 Ω
Coaxial cable	RG179, RG187	RG174, RG188, RG316	RG179, RG187	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

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		

Pneumatic contacts (max. 10 bar)

Pneumatic module

For tube outer diameter				 Number of contacts: 3 (order separately)
Tube-Ø	6 mm OD	4 mm OD	3 mm OD	
Male contact	09 14 000 6356	09 14 000 6354	09 14 000 6353	
Female without shut-off	09 14 000 6456	09 14 000 6454	09 14 000 6453	
Female with shut-off	09 14 000 6466	09 14 000 6464	09 14 000 6463	
For tube inner diameter				 male module (M) 09 14 003 3501 Female module (F) 09 14 003 3501
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	

Han® HV module 40A

Han® HV Single module

Han-Eco® PE module
for Han-Eco® hoods/housings only

Han® Dummy module



Number of contacts	2*	2	1 x PE	
Electrical data	40 A / 2900 / 5000 V	16 A / 2500 V		
Cross-section	1.5 ... 10 mm²	0.14 ... 4 mm²	1.5 ... 16 mm²	
Termination type	Crimp termination, Han C®	Crimp termination, Han E®	Screw termination	
Male module (M)	09 14 002 3023	09 14 002 3025	19 41 001 2600	09 14 000 9950
Female module (F)	09 14 002 3123	09 14 002 3125	19 41 001 2700	

Features

- Suitable for more than 100 different modules
- Quick and easy assembly supported by an audible “Click”
- Very robust mechanical characteristics
- Modules can be assembled/removed without tools
- Two leading PE contacts

Technical characteristics

Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (frames)	Zinc die-cast, Stainless steel
RoHS	compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

Both different markings must be used for one connector!

Conductor cross-section PE (power side) 4 ... 10 mm²

Conductor cross-section 10 mm² only with ferrule crimping tool
09 99 000 0374

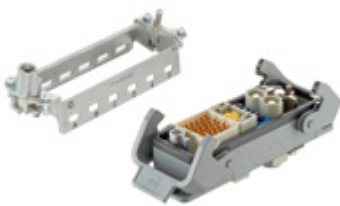
Conductor cross-section PE (signal side) 1 ... 2.5 mm²

Locking element 09 14 000 9960 see accessories in chapter
Han 06

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Identification

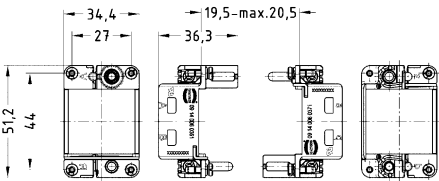
Part number

Drawing
(dimensions in mm)

Han-Modular®,
Hinged frame plus,
for 2 modules,
A ... B



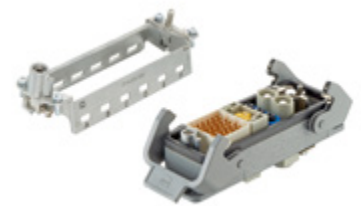
09 14 006 0361



Han-Modular®,
Hinged frame plus,
for 2 modules,
a ... b

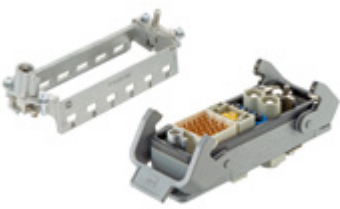


09 14 006 0371

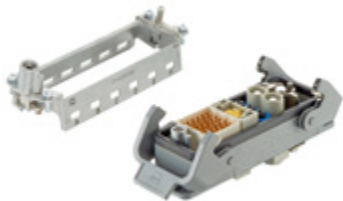
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Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Hinged frame plus, for 3 modules, A ... C	09 14 010 0361	
Han-Modular®, Hinged frame plus, for 3 modules, a ... c	09 14 010 0371	

Modu-
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Identification	Part number	Drawing (dimensions in mm)
Han-Modular[®], Hinged frame plus, for 4 modules, A ... D	09 14 016 0361	
Han-Modular[®], Hinged frame plus, for 4 modules, a ... d	09 14 016 0371	



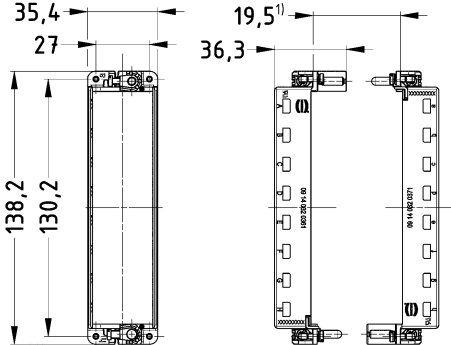
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Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Hinged frame plus, for 6 modules, A ... F	09 14 024 0361	
Han-Modular®, Hinged frame plus, for 6 modules, a ... f	09 14 024 0371	



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Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Hinged frame plus, for 8 modules, A ... H 	09 14 032 0361	 1) distance for contact max. 20.5 mm
Han-Modular®, Hinged frame plus, for 8 modules, a ... h 	09 14 032 0371	

Number of contacts

1

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Features

- PE module to connect large cable diameters within the Han-Modular® hinged frames
- Electrically conductive connection of the PE contact to the hinged frames and the hoods and housings acc. to EN 61984
- Pre-leading and robust 100 A PE contact
- Suitable for the connection of standard power cables even with large cross-sections (no special cables with reduced PE necessary)
- Crimp- and axial module are compatible modules

Technical characteristics

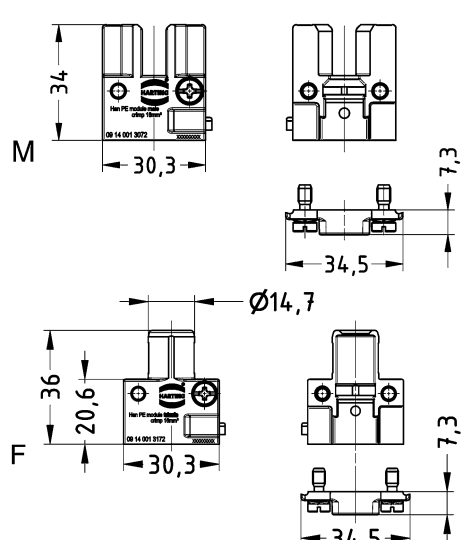
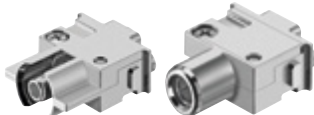
Number of contacts	1
Contact resistance	≤0.3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Zinc die-cast, nickel-plated
Material (contacts)	Copper alloy
RoHS	compliant with exemption

Specifications and approvals

IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076

Details

Short-time withstand current: 1920 A for 1 second (acc. to IEC 60947-7-2)

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular®, Han® PE module, Crimp termination, Pack contents: 2 PE module halves, 1 contact pressure plate, 1 crimp contact Contact surface: Silver plated	10	09 14 001 3071	09 14 001 3171																
	16	09 14 001 3072	09 14 001 3172																
	25	09 14 001 3073	09 14 001 3173																
	35	09 14 001 3074	09 14 001 3174																
																			
<table><tr><td colspan="5">Stripping length</td></tr><tr><td>mm²</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>mm</td><td>19</td><td>19</td><td>19</td><td>16</td></tr></table>					Stripping length					mm²	10	16	25	35	mm	19	19	19	16
Stripping length																			
mm²	10	16	25	35															
mm	19	19	19	16															

Number of contacts

1

Modu-
lar

Features

- PE module to connect large cable diameters within the Han-Modular® hinged frames
- Electrically conductive connection of the PE contact to the hinged frames and the hoods and housings acc. to EN 61984
- Pre-leading and robust 100 A PE contact
- Suitable for the connection of standard power cables even with large cross-sections (no special cables with reduced PE necessary)
- Crimp- and axial module are compatible modules

Technical characteristics

Number of contacts	1
Contact resistance	≤0.3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Zinc die-cast, nickel-plated
Material (contacts)	Copper alloy
RoHS	compliant with exemption

Specifications and approvals

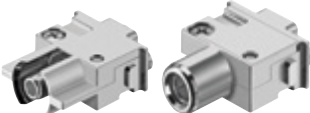
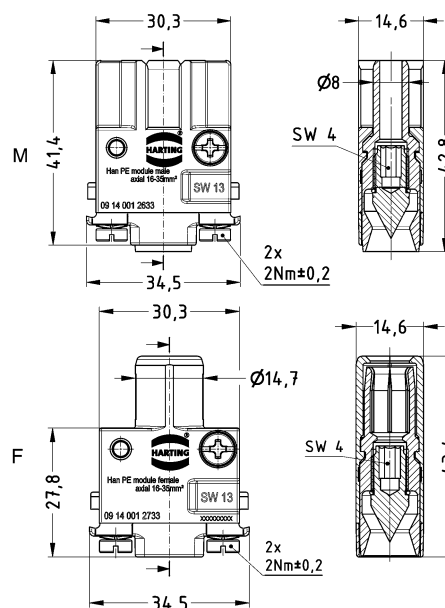
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076

Details

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Short-time withstand current: 1920 A for 1 second (acc. to IEC 60947-7-2)

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)										
		Male	Female											
Han-Modular®, Han® PE module, Axial screw termination, Pack contents: PE module with pre-assembled axial screw contact Contact surface: Silver plated 	10 ... 25 16 ... 35 22 ... 38	09 14 001 2632 09 14 001 2633 09 14 001 2634	09 14 001 2732 09 14 001 2733 09 14 001 2734	 Stripping length 13 mm Tightening torque <table border="1"> <tr> <td>mm²</td><td>10</td><td>16</td><td>25</td><td>35</td></tr> <tr> <td>Nm</td><td>6</td><td>6</td><td>7</td><td>8</td></tr> </table>	mm²	10	16	25	35	Nm	6	6	7	8
mm²	10	16	25	35										
Nm	6	6	7	8										

Features

- Power module for big wire gauges up to 120 mm²
- High rated voltage up to 1300 V
- IP20 protection for female and male module (by using male contacts with protective cap)
- Compatible to the Han® 200 A crimp module
- Short and space saving contacts
- Easy removal of the contacts

Technical characteristics

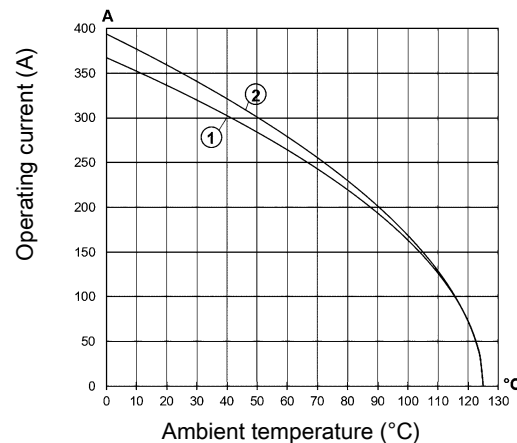
Number of contacts	1
Rated current	300 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage	1000 V AC, 1300 V DC
Insulation resistance	>10 ¹⁰ Ω
Contact resistance	≤0.3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



① 24 B hoods/housings with 3 modules Conductor cross-section 95 mm²

② 24 B hoods/housings with 3 modules Conductor cross-section 120 mm²

Specifications and approvals

EN 50124-1
EN 60664-1
IEC 61984

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

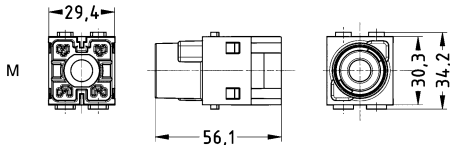
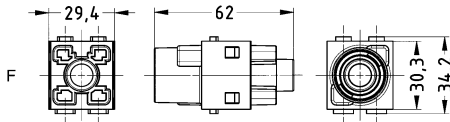
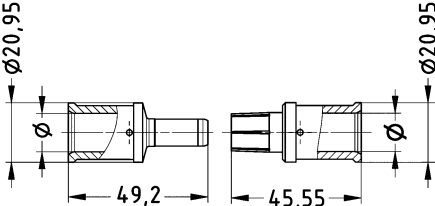
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

1

300 A 1.000 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)									
		Male	Female										
Han-Modular®, Han® 300 A module, Crimp termination  Please order crimp contacts separately.	95 ... 120	09 14 001 3004	09 14 001 3104	M  F 									
Crimp contact, Contact surface: Silver plated 	95 120	09 11 000 7536 09 11 000 7537	09 11 000 6636 09 11 000 6637	 <table><tr><th>Wire gauge</th><th>ø</th><th>Stripping length</th></tr><tr><td>95 mm²</td><td>13.55 mm</td><td>22.5 mm</td></tr><tr><td>120 mm²</td><td>15.55 mm</td><td>22.5 mm</td></tr></table>	Wire gauge	ø	Stripping length	95 mm²	13.55 mm	22.5 mm	120 mm²	15.55 mm	22.5 mm
Wire gauge	ø	Stripping length											
95 mm²	13.55 mm	22.5 mm											
120 mm²	15.55 mm	22.5 mm											

Number of contacts

1

200 A 1.000 V 8 kV 3

Modu-
lar

Features

- Power module for big cross-sections up to 70 mm²
- High rated voltage up to 1300 V
- IP20 protection for female and male module (by using male contacts with protective cap)
- Compatible to the Han® 300 A module
- Easy removal of the contacts

Technical characteristics

Number of contacts	1
Rated current	200 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage	1000 V AC, 1300 V DC
Insulation resistance	>10 ¹⁰ Ω
Contact resistance	≤0.3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Specifications and approvals

EN 50124-1
EN 60664-1
IEC 61984
DNV GL

Details

Attention

The TC 200 screw contacts are intended for connection to busbars and, due to their design, are not touch-protected in the connection area.

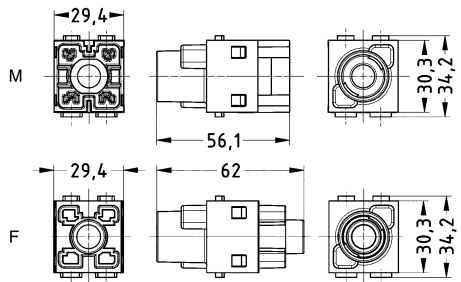
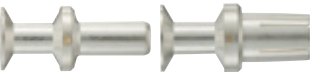
The user must ensure that the clearance and creepage distances of the TC 200 screw contacts are maintained.

For more technical details (i.e. number of crimping operations or crimping position) see eCatalogue

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Identification	Conductor cross-section (mm ²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® 200 A module, Crimp termination  Please order crimp contacts separately.	16 ... 70	09 14 001 3003	09 14 001 3103	
TC 200, Crimp contact, Contact surface: Silver plated 	16 25 35 50 70	09 11 000 6150 09 11 000 6120 09 11 000 6121 09 11 000 6122 09 11 000 6123	09 11 000 6250 09 11 000 6220 09 11 000 6221 09 11 000 6222 09 11 000 6223	

Conductor cross-section	ø	Stripping length A
25 mm ²	7	19 mm
35 mm ²	8.2	20 mm
50 mm ²	10	22.5 mm
70 mm ²	11.5	22.5 mm

for stranded wire according to IEC 60 228 Class 5



Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
TC 200, Crimp contact, With protective insert, Contact surface: Silver plated 	25	09 11 000 7120		<table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length A</th></tr><tr><td>25 mm²</td><td>7</td><td>19 mm</td></tr><tr><td>35 mm²</td><td>8.2</td><td>20 mm</td></tr><tr><td>50 mm²</td><td>10</td><td>22.5 mm</td></tr><tr><td>70 mm²</td><td>11.5</td><td>22.5 mm</td></tr></table> for stranded wire according to IEC 60 228 Class 5	Conductor cross-section	ø	Stripping length A	25 mm²	7	19 mm	35 mm²	8.2	20 mm	50 mm²	10	22.5 mm	70 mm²	11.5	22.5 mm
	Conductor cross-section	ø			Stripping length A														
	25 mm²	7			19 mm														
	35 mm²	8.2			20 mm														
	50 mm²	10			22.5 mm														
70 mm²	11.5	22.5 mm																	
35	09 11 000 7121																		
50	09 11 000 7122																		
70	09 11 000 7123																		
TC 200, Screw contact, M8, Contact surface: Silver plated 	70	09 11 000 6124	09 11 000 6224																

Number of contacts

1

200 A 1.000 V 8 kV 3

Modu-
lar

Features

- No special tools required for axial-screw termination
- Power module for big cross-sections up to 70 mm²
- Can be used e.g. as 3 + PE connector in the Han® 32 B housing.
- Not compatible to the Han® 200 A crimp module

Technical characteristics

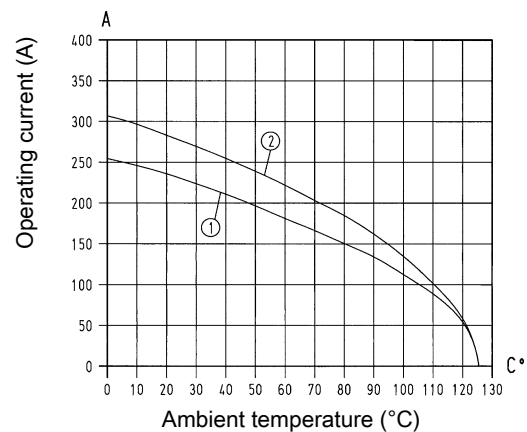
Number of contacts	1
Rated current	200 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	>10 ¹⁰ Ω
Contact resistance	≤0.2 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 3 modules Conductor cross-section 50 mm²
 ② 24 B hoods/housings with 3 modules Conductor cross-section 70 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 DNV GL
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390

Details

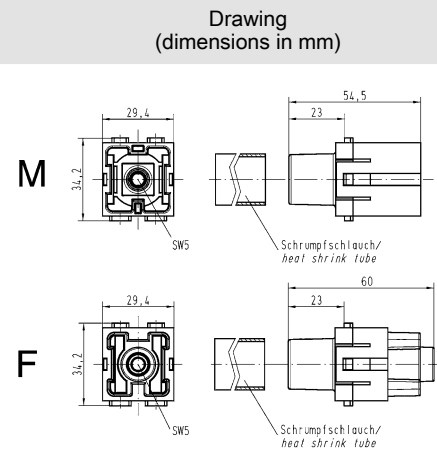
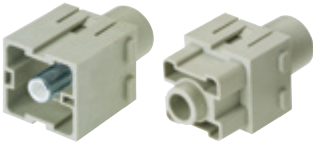
Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Contact resistance axial screw contact: ≤ 0.2 mOhm

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number	
		Male	Female
Han-Modular®, Han® 200 A module, Axial screw termination, Contact surface: Silver plated	25 ... 40	09 14 001 2663	09 14 001 2763
	40 ... 70	09 14 001 2662	09 14 001 2762



Stripping length 16 mm
Tightening torque
8 Nm @ 25 ... 40 mm², 9 Nm @ 40 mm²,
10 Nm @ 70 mm²

Technical characteristics

Specifications and approvals

Number of contacts 1
Insulation resistance >10¹⁰ Ω
Contact resistance ≤0.2 mΩ
Limiting temperature -40 ... +125 °C
Mating cycles ≥500
Material (insert) Polycarbonate (PC)
Colour (insert) RAL 7032 (pebble grey)
Material (contacts) Copper alloy
Material flammability class acc. to UL 94 V-0
RoHS compliant with exemption

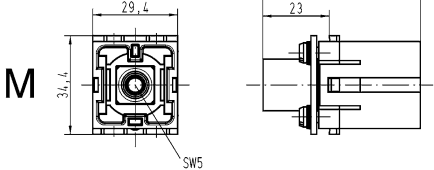
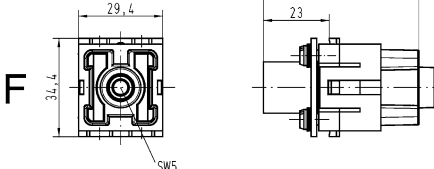
EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390

Modu-
lar

Number of contacts

1

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® 200 A PE module, Axial screw termination, Contact surface: Silver plated 	25 ... 40 40 ... 70	09 14 001 2668 09 14 001 2667	09 14 001 2768 09 14 001 2767	M  F  Hex key with grip 09 99 000 0364 Adapter 3/8" 09 99 000 0371 See chapter Han 90 Stripping length 16 mm Tightening torque 8 Nm @ 25 ... 40 mm², 9 Nm @ 40 mm², 10 Nm @ 70 mm²

Features

- Crimp- and axial module are compatible modules
- Contacts can be unlocked from the mating side

Technical characteristics

Number of contacts	2
Rated current	100 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

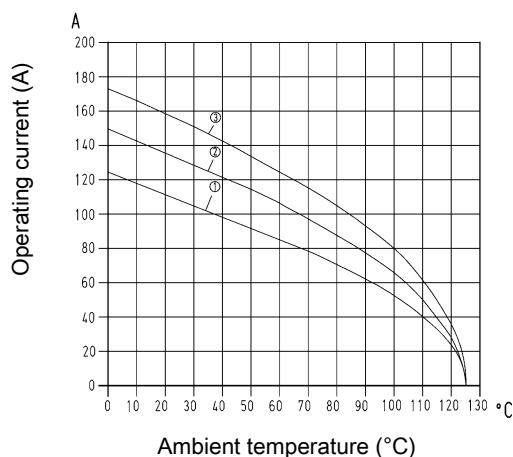
Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2

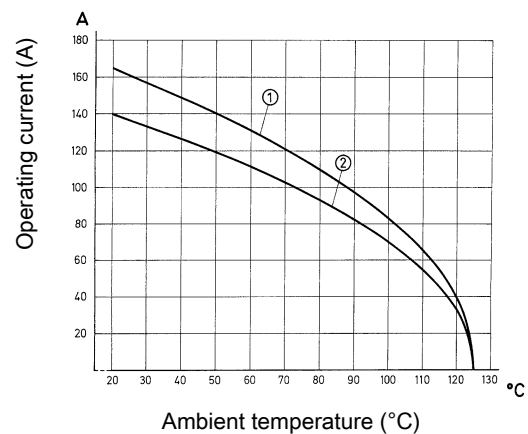
Crimp termination



- ① 24 B hoods/housings with 3 modules Conductor cross-section 16 mm²
 ② 24 B hoods/housings with 3 modules Conductor cross-section 25 mm²
 ③ 24 B hoods/housings with 3 modules Conductor cross-section 35 mm²

Derating

Axial screw termination



- ① 24 B hoods/housings with 3 modules Conductor cross-section 35 mm²
 ② 24 B hoods/housings with 3 modules Conductor cross-section 25 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Details

For more technical details (i.e. number of crimping operations or crimping position) see eCatalogue

Crimping tools see chapter Han 90

Remarks on the crimp technique

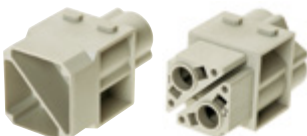
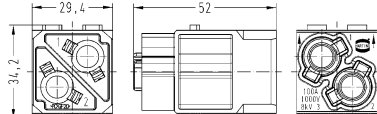
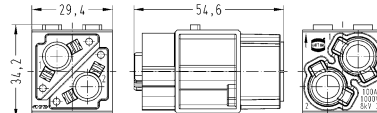
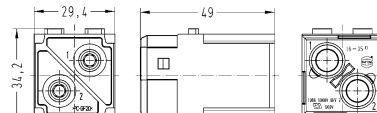
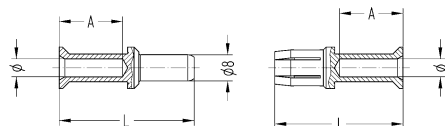
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

2

100 A 1.000 V 8 kV 3

Mod-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular®, Han® 100 A module, Crimp termination  Please order crimp contacts separately.	10 ... 35	09 14 002 3051	09 14 002 3151	M  F 															
Han-Modular®, Han® 100 A module, Axial screw termination, Contact surface: Silver plated 	10 ... 25 16 ... 35 22 ... 38	09 14 002 2653 09 14 002 2651 09 14 002 2650	09 14 002 2753 09 14 002 2751 09 14 002 2750	M  F  Stripping length 12 ... 14 mm Tightening torque 6 Nm @ 10 ... 16 mm², 7 Nm @ 25 mm², 8 Nm @ 35 ... 38 mm²															
TC 100, Crimp contact, Contact surface: Silver plated 	10 16 25 35	09 11 000 6114 09 11 000 6116 09 11 000 6125 09 11 000 6135	09 11 000 6214 09 11 000 6216 09 11 000 6225 09 11 000 6235	 <table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>10 mm²</td><td>4.3</td><td>19 mm</td></tr><tr><td>16 mm²</td><td>5.5</td><td>19 mm</td></tr><tr><td>25 mm²</td><td>7</td><td>19 mm</td></tr><tr><td>35 mm²</td><td>8.2</td><td>16 mm</td></tr></table> for stranded wire according to IEC 60 228 Class 5	Conductor cross-section	Ø	Stripping length	10 mm²	4.3	19 mm	16 mm²	5.5	19 mm	25 mm²	7	19 mm	35 mm²	8.2	16 mm
Conductor cross-section	Ø	Stripping length																	
10 mm²	4.3	19 mm																	
16 mm²	5.5	19 mm																	
25 mm²	7	19 mm																	
35 mm²	8.2	16 mm																	

Features

- Crimp or axial screw termination available
- Unlock of contacts with a screw driver from mating side
- Separate axial screw contacts can be terminated without any special tools directly to the wire

Technical characteristics

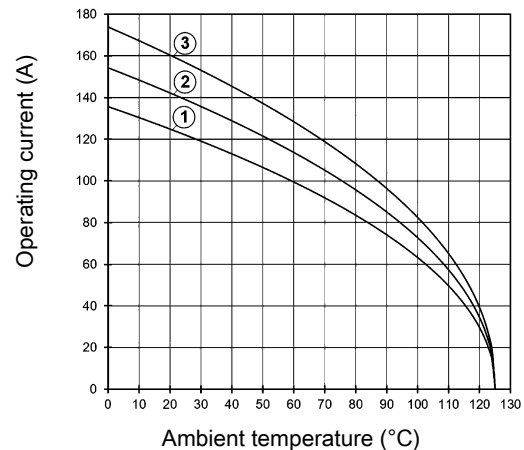
Number of contacts	1
Rated current	100 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① Conductor cross-section 16 mm²
- ② Conductor cross-section 25 mm²
- ③ Conductor cross-section 35 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Details

Hex key (A/F 4) see chapter Han 90

For more technical details (i.e. number of crimping operations or crimping position) see eCatalogue

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Han® 100 A Single module

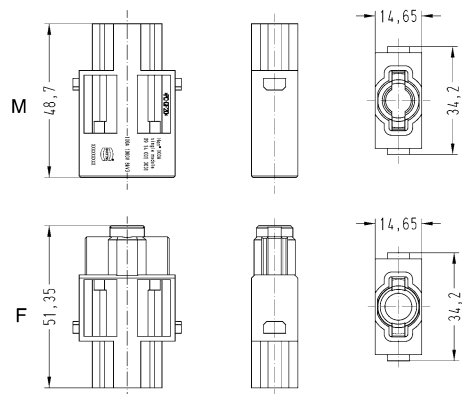
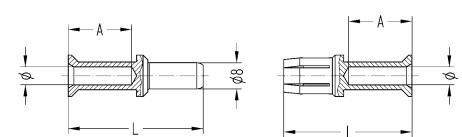
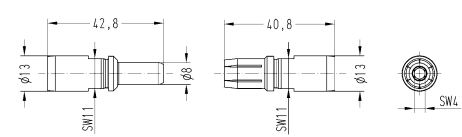


Number of contacts

1

100 A 830 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular®, Han® 100 A module, Single module  Please order contacts separately.	10 ... 35	09 14 001 3031	09 14 001 3131																
TC 100, Crimp contact, Contact surface: Silver plated 	10 16 25 35	09 11 000 6114 09 11 000 6116 09 11 000 6125 09 11 000 6135	09 11 000 6214 09 11 000 6216 09 11 000 6225 09 11 000 6235	 <table><tr><td>Conductor cross-section</td><td>Ø</td><td>Stripping length</td></tr><tr><td>10 mm²</td><td>4.3</td><td>19 mm</td></tr><tr><td>16 mm²</td><td>5.5</td><td>19 mm</td></tr><tr><td>25 mm²</td><td>7</td><td>19 mm</td></tr><tr><td>35 mm²</td><td>8.2</td><td>16 mm</td></tr></table> for stranded wire according to IEC 60 228 Class 5	Conductor cross-section	Ø	Stripping length	10 mm²	4.3	19 mm	16 mm²	5.5	19 mm	25 mm²	7	19 mm	35 mm²	8.2	16 mm
Conductor cross-section	Ø	Stripping length																	
10 mm²	4.3	19 mm																	
16 mm²	5.5	19 mm																	
25 mm²	7	19 mm																	
35 mm²	8.2	16 mm																	
TC 100, Axial screw contact, Contact surface: Silver plated 	10 ... 25 16 ... 35	09 11 000 6112 09 11 000 6113	09 11 000 6212 09 11 000 6213	 Stripping length 13 mm Tightening torque <table><tr><td>mm²</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>Nm</td><td>6</td><td>6</td><td>7</td><td>8</td></tr></table>	mm²	10	16	25	35	Nm	6	6	7	8					
mm²	10	16	25	35															
Nm	6	6	7	8															

Han
06
·
28

Features

- for power circuits
- Male inserts with protection collar
- Polarisation of module

Technical characteristics

Number of contacts	2
Rated current	70 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.5 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

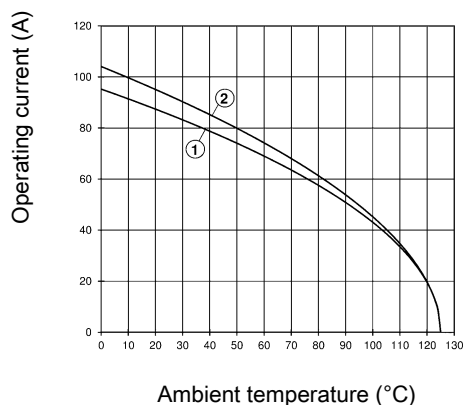
Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2

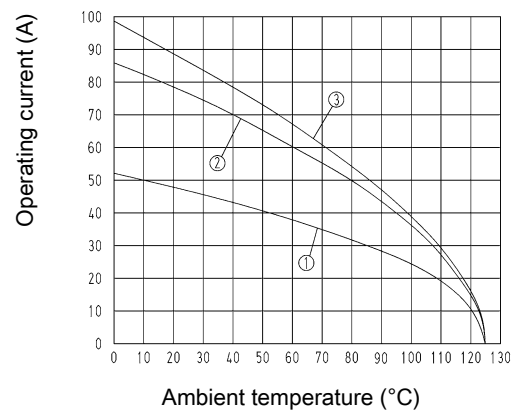
Crimp termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 16 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 25 mm²

Derating

Axial screw termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 6 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 16 mm²
 ③ 24 B hoods/housings with 6 modules Conductor cross-section 22 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Details

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Hex key (A/F 2.5) see chapter Han 90

For more technical details (i.e. number of crimping operations or crimping position) see eCatalogue

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Han® 70 A module

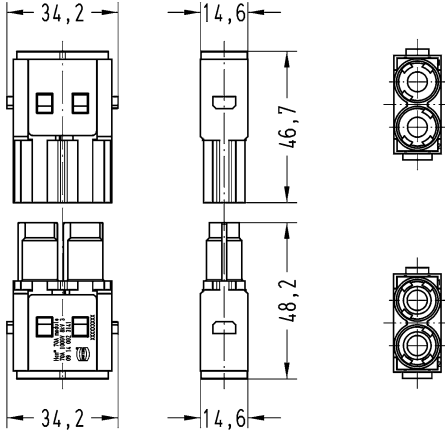
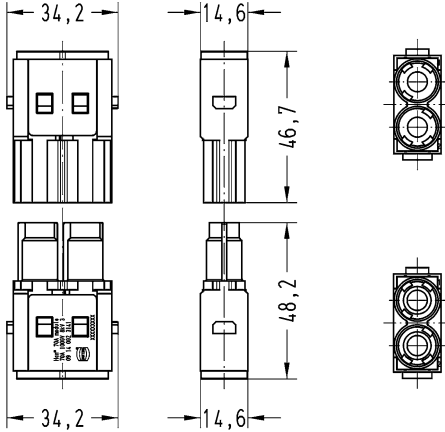
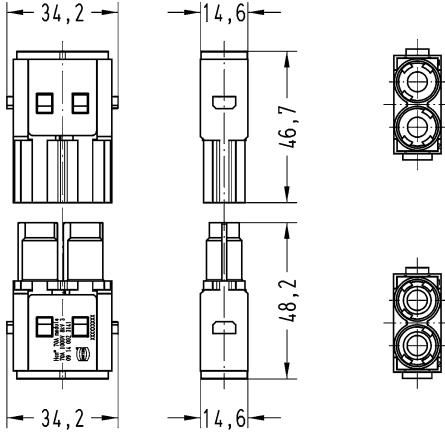
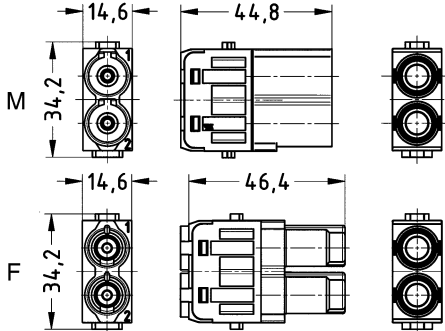
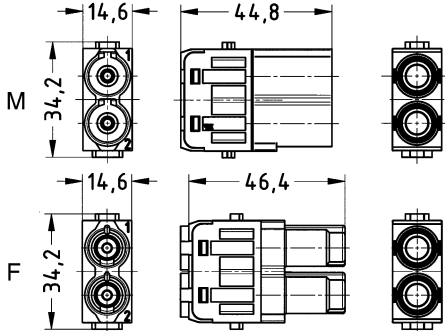
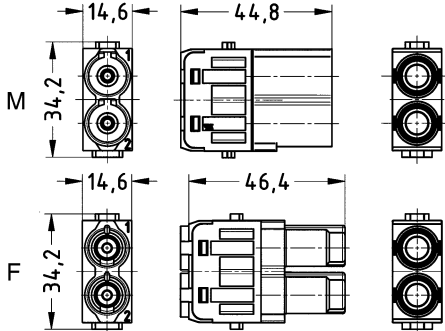


Number of contacts

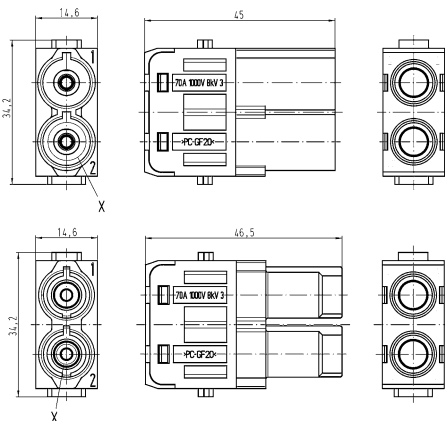
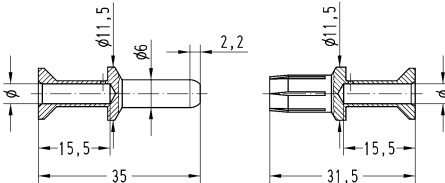
2

70 A 1.000 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)		
		Male	Female			
Han-Modular®, Han® 70 A module, Crimp termination  Please order crimp contacts separately.	10 ... 25	09 14 002 3041	09 14 002 3141			
Han-Modular®, Han® 70 A module, Axial screw termination, Contact surface: Silver plated  Finger safe	6 ... 16 14 ... 22	09 14 002 2641 09 14 002 2642				

Han
06
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30

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)												
		Male	Female													
Han-Modular®, Han® 70 A module, Axial screw termination, Contact surface: Silver plated 	6 ... 16 14 ... 22	09 14 002 2646 09 14 002 2647	09 14 002 2741 09 14 002 2742	 6 ... 16 mm²: Stripping length 11 ... 12 mm 14 ... 22 mm²: Stripping length 12,5 ... 13.5 mm Tightening torque 2 Nm @ 6 mm², 3 Nm @ 10 mm², 4 Nm @ 14 mm², 4 Nm @ 16 mm², 4 Nm @ 22 mm²												
TC 70, Crimp contact, Contact surface: Silver plated 	10 16 25	09 11 000 6131 09 11 000 6132 09 11 000 6133	09 11 000 6231 09 11 000 6232 09 11 000 6233	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>10 mm²</td><td>4.3</td><td>15.5 mm</td></tr><tr><td>16 mm²</td><td>5.5</td><td>15.5 mm</td></tr><tr><td>25 mm²</td><td>7</td><td>15.5 mm</td></tr></table> for stranded wire according to IEC 60 228 Class 5	Conductor cross-section	ø	Stripping length	10 mm²	4.3	15.5 mm	16 mm²	5.5	15.5 mm	25 mm²	7	15.5 mm
Conductor cross-section	ø	Stripping length														
10 mm²	4.3	15.5 mm														
16 mm²	5.5	15.5 mm														
25 mm²	7	15.5 mm														

Modu-
lar

Features

- Axial screw termination
- for power circuits
- Male inserts with protection collar
- Polarisation of module

Technical characteristics

Number of contacts	1
Additional contacts	+ 4 additional signal contacts
Rated current	70 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	16 A
Rated voltage (signal)	400 V
Rated impulse voltage (signal)	6 kV
Pollution degree (signal)	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.5 \text{ m}\Omega, \leq 1 \text{ m}\Omega$
Limiting temperature	$-40 \dots +125 \text{ }^{\circ}\text{C}$
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

Hex key (A/F 2.5) see chapter Han 90

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Contact resistance axial screw contact: $\leq 0.5 \text{ m}\Omega$

Contact resistance Han E® crimp contact: $\leq 1 \text{ m}\Omega$

Crimping tools see chapter Han 90

Remarks on the crimp technique

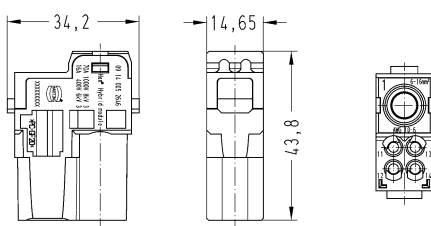
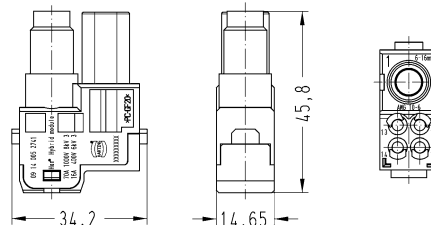
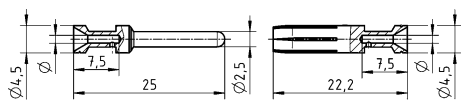
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

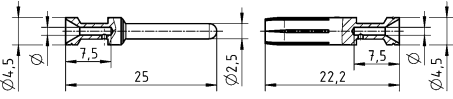
1

70 A 1.000 V 8 kV 3
16 A 400 V 6 kV 3
+ 4 additional signal contacts

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular®, Han® 70 A Hybrid module, Axial screw termination / crimp termination  Please order signal contacts separately.	6 ... 16 14 ... 22	09 14 005 2646 09 14 005 2647	09 14 005 2741 09 14 005 2742	  6 ... 16 mm²: Stripping length 11 ... 12 mm 14 ... 22 mm²: Stripping length 12,5 ... 13.5 mm Tightening torque 2 Nm @ 6 mm², 3 Nm @ 10 mm², 4 Nm @ 14 mm², 4 Nm @ 16 mm², 4 Nm @ 22 mm²																		
Han E®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 3 4	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove
Conductor cross-section	Identification																					
0.14-0.37 mm² AWG 26-22	no groove																					
0.5 mm² AWG 20	no groove																					
0.75 mm² AWG 18	1 groove*																					
1 mm² AWG 18	1 groove																					
1.5 mm² AWG 16	2 groove																					
2.5 mm² AWG 14	3 groove																					
3 mm² AWG 12	wide groove																					
4 mm² AWG 12	no groove																					

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han E®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37	09 33 000 6117	09 33 000 6217	
	0.5	09 33 000 6122	09 33 000 6222	
	0.75	09 33 000 6115	09 33 000 6215	
	1	09 33 000 6118	09 33 000 6218	
	1.5	09 33 000 6116	09 33 000 6216	
	2.5	09 33 000 6123	09 33 000 6223	
	4	09 33 000 6119	09 33 000 6221	

Conductor cross-section	Identification
0.14-0.37 mm² AWG 26-22	no groove
0.5 mm² AWG 20	no groove
0.75 mm² AWG 18	1 groove*
1 mm² AWG 18	1 groove
1.5 mm² AWG 16	2 groove
2.5 mm² AWG 14	3 groove
3 mm² AWG 12	wide groove
4 mm² AWG 12	no groove

* on the back crimp collar

Stripping length 7.5 mm

Features

- Crimp or axial screw termination available
- No special tools required for axial-screw termination

Technical characteristics

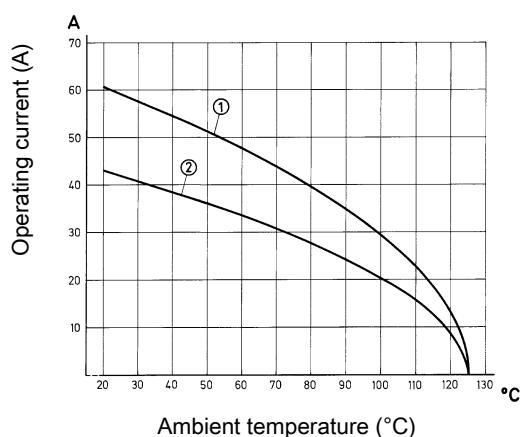
Number of contacts	2
Rated current	40 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega, \leq 1 \text{ m}\Omega$
Limiting temperature	$-40 \dots +125 \text{ }^{\circ}\text{C}$
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 10 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 DNV GL
 CSA-C22.2 No. 182.3 ECBT8.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390

Details

Contact resistance Han® C crimp contact: $\leq 1 \text{ m}\Omega$

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Contact resistance axial screw contact: $\leq 0.3 \text{ m}\Omega$

Hex key (A/F 2) see chapter Han 90

Crimping tools see chapter Han 90

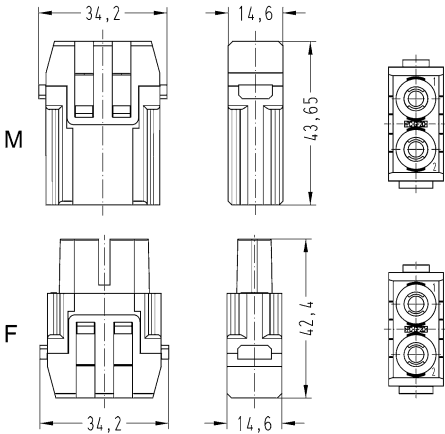
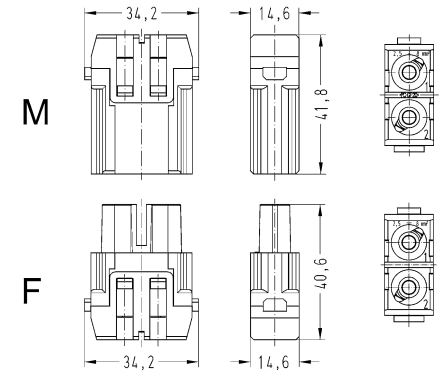
Remarks on the crimp technique

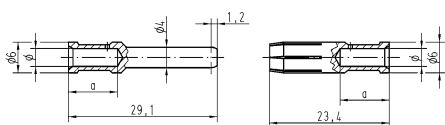
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

2

40 A 1.000 V 8 kV 3

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																				
		Male	Female																					
Han-Modular®, Han® 40 A module, Crimp termination, UL: 600 V  Please order crimp contacts separately.	1.5 ... 10	09 14 002 3002	09 14 002 3102	M F  Contact arrangement (view from termination side)																				
Han-Modular®, Han® 40 A module, Axial screw termination, Contact surface: Silver plated 	2.5 ... 8 6 ... 10	09 14 002 2601 09 14 002 2602	09 14 002 2701 09 14 002 2702	M F  Contact arrangement (view from termination side) Stripping length <table><tr><td>mm²</td><td>2,5</td><td>4</td><td>6</td><td>10</td></tr><tr><td>mm</td><td>5⁺¹</td><td>5⁺¹</td><td>8⁺¹</td><td>11⁺¹</td></tr></table> Tightening torque <table><tr><td>mm²</td><td>2,5</td><td>4</td><td>6</td><td>10</td></tr><tr><td>Nm</td><td>1,5</td><td>1,5</td><td>2</td><td>2</td></tr></table>	mm²	2,5	4	6	10	mm	5 ⁺¹	5 ⁺¹	8 ⁺¹	11 ⁺¹	mm²	2,5	4	6	10	Nm	1,5	1,5	2	2
mm²	2,5	4	6	10																				
mm	5 ⁺¹	5 ⁺¹	8 ⁺¹	11 ⁺¹																				
mm²	2,5	4	6	10																				
Nm	1,5	1,5	2	2																				

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han® C, Crimp contact, Contact surface: Silver plated	1.5	09 32 000 6104	09 32 000 6204	
	2.5	09 32 000 6105	09 32 000 6205	
	4	09 32 000 6107	09 32 000 6207	
	6	09 32 000 6108	09 32 000 6208	
	10	09 32 000 6109	09 32 000 6209	



Conductor cross-section	ø	Stripping length
1.5 mm² AWG 16	1.75 mm	9.5 mm
2.5 mm² AWG 14	2.25 mm	9.5 mm
4 mm² AWG 12	2.85 mm	9.5 mm
6 mm² AWG 10	3.5 mm	9.5 mm
10 mm² AWG 8	4.3 mm	12 mm

Features

- Standard module for power up to 40 A
- No special tools required for axial-screw termination

Technical characteristics

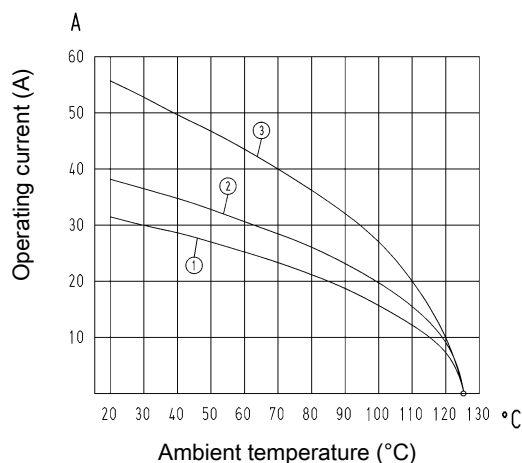
Number of contacts	3
Rated current	40 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current acc. to UL	40 A
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega, \leq 1 \text{ m}\Omega$
Limiting temperature	$-40 \dots +125 \text{ }^{\circ}\text{C}$
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 4 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 6 mm²
 ③ 24 B hoods/housings with 6 modules Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 DNV GL
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390

Details

Contact resistance Han® C crimp contact: $\leq 1 \text{ m}\Omega$

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Contact resistance axial screw contact: $\leq 0.3 \text{ m}\Omega$

Hex key (A/F 2) see chapter Han 90

Crimping tools see chapter Han 90

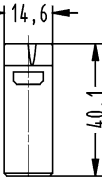
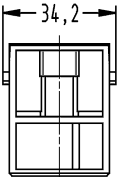
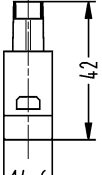
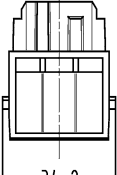
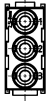
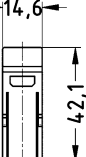
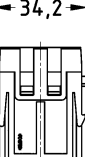
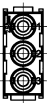
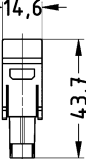
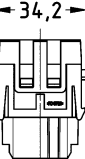
Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

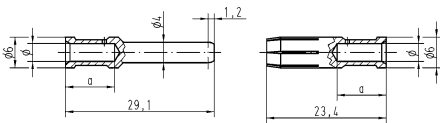
Number of contacts

3
40 A 690 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																				
		Male	Female																					
Han-Modular®, Han® C module, Crimp termination  Please order crimp contacts separately.	1.5 ... 6	09 14 003 3001	09 14 003 3101	M F   Contact arrangement (view from termination side)																				
Han-Modular®, Han® C module, Axial screw termination, Contact surface: Silver plated 	2.5 ... 8 6 ... 10	09 14 003 2601 09 14 003 2602	09 14 003 2701 09 14 003 2702	M F   Contact arrangement (view from termination side) Stripping length <table><tr><td>mm²</td><td>2,5</td><td>4</td><td>6</td><td>10</td></tr><tr><td>mm</td><td>5⁺¹</td><td>5⁺¹</td><td>8⁺¹</td><td>11⁺¹</td></tr></table> Tightening torque <table><tr><td>mm²</td><td>2,5</td><td>4</td><td>6</td><td>10</td></tr><tr><td>Nm</td><td>1,5</td><td>1,5</td><td>2</td><td>2</td></tr></table>	mm²	2,5	4	6	10	mm	5 ⁺¹	5 ⁺¹	8 ⁺¹	11 ⁺¹	mm²	2,5	4	6	10	Nm	1,5	1,5	2	2
mm²	2,5	4	6	10																				
mm	5 ⁺¹	5 ⁺¹	8 ⁺¹	11 ⁺¹																				
mm²	2,5	4	6	10																				
Nm	1,5	1,5	2	2																				

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han® C, Crimp contact, Contact surface: Silver plated	1.5	09 32 000 6104	09 32 000 6204																			
	2.5	09 32 000 6105	09 32 000 6205																			
	4	09 32 000 6107	09 32 000 6207																			
	6	09 32 000 6108	09 32 000 6208																			
																						
				<table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>9.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>9.5 mm</td></tr><tr><td>4 mm² AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6 mm² AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr><tr><td>10 mm² AWG 8</td><td>4.3 mm</td><td>12 mm</td></tr></table>	Conductor cross-section	Ø	Stripping length	1.5 mm² AWG 16	1.75 mm	9.5 mm	2.5 mm² AWG 14	2.25 mm	9.5 mm	4 mm² AWG 12	2.85 mm	9.5 mm	6 mm² AWG 10	3.5 mm	9.5 mm	10 mm² AWG 8	4.3 mm	12 mm
Conductor cross-section	Ø	Stripping length																				
1.5 mm² AWG 16	1.75 mm	9.5 mm																				
2.5 mm² AWG 14	2.25 mm	9.5 mm																				
4 mm² AWG 12	2.85 mm	9.5 mm																				
6 mm² AWG 10	3.5 mm	9.5 mm																				
10 mm² AWG 8	4.3 mm	12 mm																				

Features

- Suitable for Han® C crimp contacts
- Designed for a high working voltage up to 830 V
- Finger safe male and female contacts
- High density of contacts

Technical characteristics

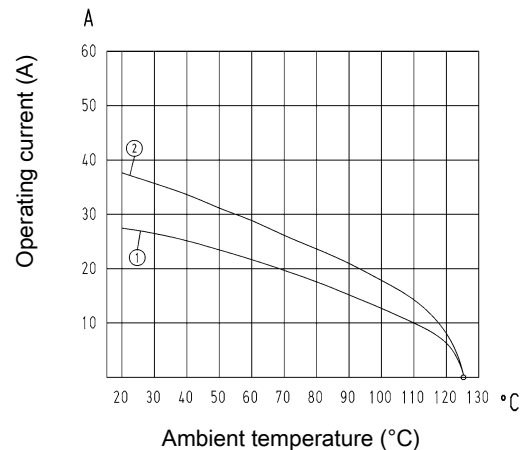
Number of contacts	4
Rated current	40 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 4 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

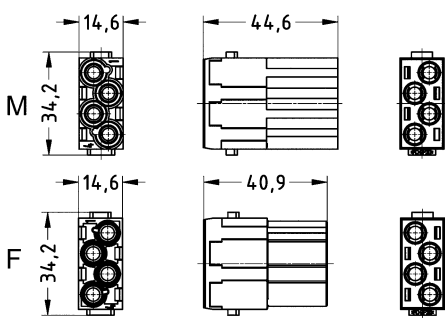
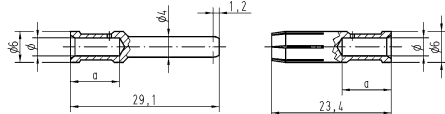
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

4

40 A 830 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular®, Han® CC Protected module, Crimp termination  Please order crimp contacts separately.	1.5 ... 6	09 14 004 3041	09 14 004 3141	 Contact arrangement (view from termination side)																		
Han® C, Crimp contact, Contact surface: Silver plated 	1.5 2.5 4 6	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>9.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>9.5 mm</td></tr><tr><td>4 mm² AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6 mm² AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr><tr><td>10 mm² AWG 8</td><td>4.3 mm</td><td>12 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	1.5 mm² AWG 16	1.75 mm	9.5 mm	2.5 mm² AWG 14	2.25 mm	9.5 mm	4 mm² AWG 12	2.85 mm	9.5 mm	6 mm² AWG 10	3.5 mm	9.5 mm	10 mm² AWG 8	4.3 mm	12 mm
Conductor cross-section	ø	Stripping length																				
1.5 mm² AWG 16	1.75 mm	9.5 mm																				
2.5 mm² AWG 14	2.25 mm	9.5 mm																				
4 mm² AWG 12	2.85 mm	9.5 mm																				
6 mm² AWG 10	3.5 mm	9.5 mm																				
10 mm² AWG 8	4.3 mm	12 mm																				

Features

- 3 contacts (40 A) for power circuits and 4 contacts (10 A) for signal circuits
- Ideal as motor drive connector
- Finger safe male and female contacts

Technical characteristics

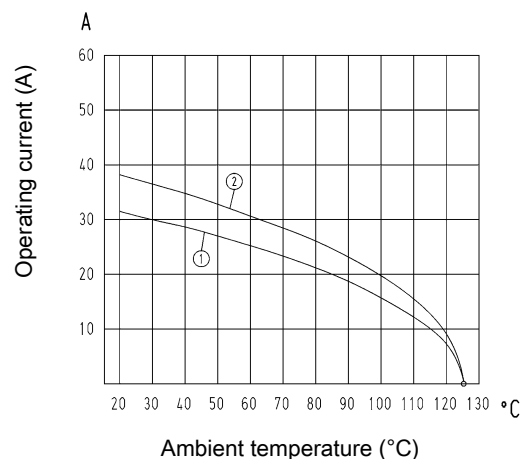
Number of contacts	3
Additional contacts	+ 4 additional signal contacts
Rated current	40 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	830 V
Rated impulse voltage (signal)	8 kV
Pollution degree (signal)	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$, $\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 5 \text{ mm}$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 4 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 DNV GL

Details

Contact resistance Han D® crimp contact: $\leq 3 \text{ m}\Omega$

Contact resistance Han® C crimp contact: $\leq 1 \text{ m}\Omega$

Crimping tools see chapter Han 90

Remarks on the crimp technique

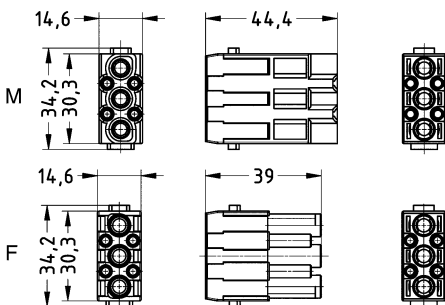
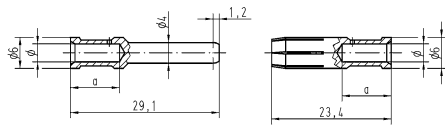
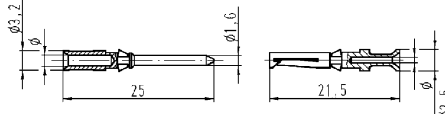
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

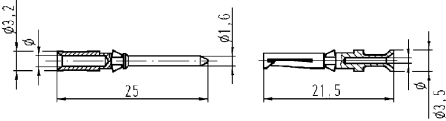
Number of contacts

3

40 A 830 V 8 kV 3
 10 A 830 V 8 kV 3
 + 4 additional signal contacts

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Modular®, Han® CD module, Crimp termination  Please order crimp contacts separately.	0.14 ... 6	09 14 007 3001	09 14 007 3101	 Contact arrangement (view from termination side)																					
Han® C, Crimp contact, Contact surface: Silver plated 	1.5 2.5 4 6	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>9.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>9.5 mm</td></tr><tr><td>4 mm² AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6 mm² AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr><tr><td>10 mm² AWG 8</td><td>4.3 mm</td><td>12 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	1.5 mm² AWG 16	1.75 mm	9.5 mm	2.5 mm² AWG 14	2.25 mm	9.5 mm	4 mm² AWG 12	2.85 mm	9.5 mm	6 mm² AWG 10	3.5 mm	9.5 mm	10 mm² AWG 8	4.3 mm	12 mm			
Conductor cross-section	ø	Stripping length																							
1.5 mm² AWG 16	1.75 mm	9.5 mm																							
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6 mm² AWG 10	3.5 mm	9.5 mm																							
10 mm² AWG 8	4.3 mm	12 mm																							
Han D®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106	09 15 000 6204 09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																												
		Male	Female																													
Han D®, Crimp contact, Contact surface: Gold plated	0.14 ... 0.37	09 15 000 6124	09 15 000 6224																													
	0.5	09 15 000 6123	09 15 000 6223																													
	0.75	09 15 000 6125	09 15 000 6225																													
	1	09 15 000 6122	09 15 000 6222																													
	1.5	09 15 000 6121	09 15 000 6221																													
	2.5	09 15 000 6126	09 15 000 6226																													
				<table><tr><th colspan="2">Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm²</td><td>AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm²</td><td>AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm²</td><td>AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section		ø	Stripping length	0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm	0.5 mm²	AWG 20	1.1 mm	8 mm	0.75 mm²	AWG 18	1.3 mm	8 mm	1 mm²	AWG 18	1.45 mm	8 mm	1.5 mm²	AWG 16	1.75 mm	8 mm	2.5 mm²	AWG 14	2.25 mm	6 mm
Conductor cross-section		ø	Stripping length																													
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm																													
0.5 mm²	AWG 20	1.1 mm	8 mm																													
0.75 mm²	AWG 18	1.3 mm	8 mm																													
1 mm²	AWG 18	1.45 mm	8 mm																													
1.5 mm²	AWG 16	1.75 mm	8 mm																													
2.5 mm²	AWG 14	2.25 mm	6 mm																													

Modu-
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Features

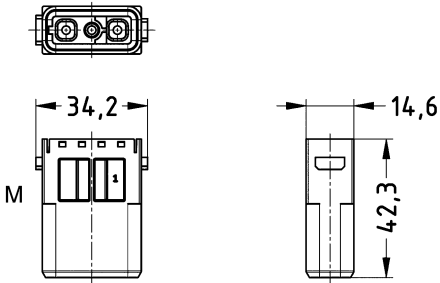
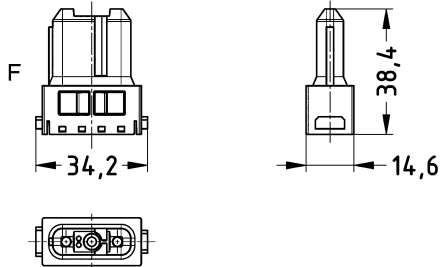
- Affordable module without contacts
- Centring function with a very large inlet cone of +/- 4 mm
- Significantly better handling compared to conventional guide pins/sockets
- Ideal add-on when dealing with many mating cycles or inaccessible connectors

Technical characteristics

Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Lock-in range	±4 mm
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 9005 (jet black)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® Guiding module, Dummy module 	09 14 003 3050	09 14 003 3150	 

Number of contacts

3

16 A 500 V 6 kV 3

Modu-
lar

Features

- 2 contacts with relay function (last mate - first break)
- Enables other power contacts to be switched off via a relay and thus offers greater safety in the event of a fault (when used as intended, the connector must not be plugged in or disconnected under voltage / load)

Technical characteristics

Number of contacts	3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Lock-in range	$\pm 4 \text{ mm}$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

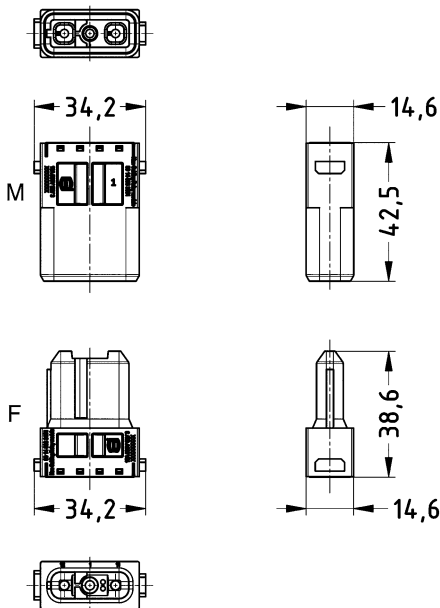
EN 60664-1
IEC 61984

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Identification	Conductor cross-section (mm ²)	Part number		Drawing (dimensions in mm)	
		Male	Female		
Han-Modular®, Han® Guiding module, Relay module, Crimp termination  Please order crimp contacts separately.	0.14 ... 4	09 14 003 3051	09 14 003 3151		

Han
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47

Modu-
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Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																											
		Male	Female																												
Han E®, Crimp contact, Contact surface: Silver plated	0.14 ... 0.37		09 33 000 6227																												
	0.5		09 33 000 6220																												
	0.75		09 33 000 6214																												
	1		09 33 000 6205																												
	1.5		09 33 000 6204																												
	2.5		09 33 000 6202																												
	3		09 33 000 6206																												
	4		09 33 000 6207																												
				<table><tr><th colspan="2">Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>3 groove</td></tr><tr><td>3 mm²</td><td>AWG 12</td><td>wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar	Conductor cross-section		Identification	0.14-0.37 mm²	AWG 26-22	no groove	0.5 mm²	AWG 20	no groove	0.75 mm²	AWG 18	1 groove*	1 mm²	AWG 18	1 groove	1.5 mm²	AWG 16	2 groove	2.5 mm²	AWG 14	3 groove	3 mm²	AWG 12	wide groove	4 mm²	AWG 12	no groove
Conductor cross-section		Identification																													
0.14-0.37 mm²	AWG 26-22	no groove																													
0.5 mm²	AWG 20	no groove																													
0.75 mm²	AWG 18	1 groove*																													
1 mm²	AWG 18	1 groove																													
1.5 mm²	AWG 16	2 groove																													
2.5 mm²	AWG 14	3 groove																													
3 mm²	AWG 12	wide groove																													
4 mm²	AWG 12	no groove																													
Han E®, Crimp contact, Relay contact, Contact surface: Silver plated	0.75 ... 1	09 33 000 6109		Stripping length 7.5 mm																											
	1.5	09 33 000 6110																													
	2.5	09 33 000 6111																													
				<table><tr><th>Conductor cross-section</th><th></th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.75-1 mm²</td><td>AWG 18</td><td>1.45 mm</td><td>7.5 mm</td></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>1.75 mm</td><td>7.5 mm</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>2.25 mm</td><td>7.5 mm</td></tr></table>	Conductor cross-section		Ø	Stripping length	0.75-1 mm²	AWG 18	1.45 mm	7.5 mm	1.5 mm²	AWG 16	1.75 mm	7.5 mm	2.5 mm²	AWG 14	2.25 mm	7.5 mm											
Conductor cross-section		Ø	Stripping length																												
0.75-1 mm²	AWG 18	1.45 mm	7.5 mm																												
1.5 mm²	AWG 16	1.75 mm	7.5 mm																												
2.5 mm²	AWG 14	2.25 mm	7.5 mm																												

Number of contacts

2+

16 A 500 V 6 kV 3

Modu-
lar

Features

- PE connection with a Han E® crimp contact
- Only for use in the Han-Eco® Modular plastic housings
- Centring function with a very large inlet cone of +/- 4 mm

Technical characteristics

Number of contacts	2
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Lock-in range	$\pm 4 \text{ mm}$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

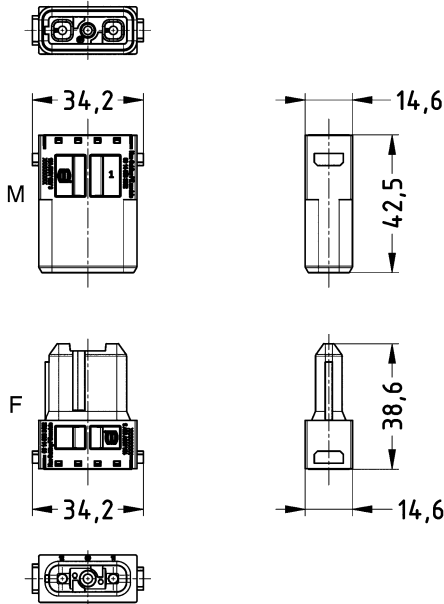
EN 60664-1
IEC 61984

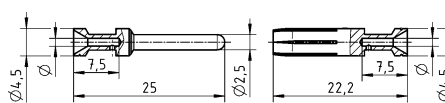
Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)	
		Male	Female		
Han-Modular®, Han® Guiding module, PE module, Crimp termination  Please order crimp contacts separately. Not for Han-Modular® hinged frames!	0.14 ... 4	09 14 003 3052	09 14 003 3152		

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han E®, Crimp contact, Contact surface: Silver plated	0.14 ... 0.37	09 33 000 6127	09 33 000 6227	
	0.5	09 33 000 6121	09 33 000 6220	
	0.75	09 33 000 6114	09 33 000 6214	
	1	09 33 000 6105	09 33 000 6205	
	1.5	09 33 000 6104	09 33 000 6204	
	2.5	09 33 000 6102	09 33 000 6202	
	3	09 33 000 6106	09 33 000 6206	
	4	09 33 000 6107	09 33 000 6207	



Conductor cross-section	Identification
0.14-0.37 mm² AWG 26-22	no groove
0.5 mm² AWG 20	no groove
0.75 mm² AWG 18	1 groove*
1 mm² AWG 18	1 groove
1.5 mm² AWG 16	2 groove
2.5 mm² AWG 14	3 groove
3 mm² AWG 12	wide groove
4 mm² AWG 12	no groove

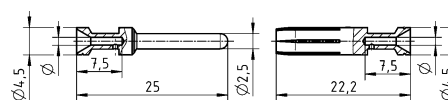
* on the back crimp collar

Stripping length 7.5 mm

Han E®,
Crimp contact,
Contact surface:
Gold plated



0.14 ... 0.37	09 33 000 6117	09 33 000 6217
0.5	09 33 000 6122	09 33 000 6222
0.75	09 33 000 6115	09 33 000 6215
1	09 33 000 6118	09 33 000 6218
1.5	09 33 000 6116	09 33 000 6216
2.5	09 33 000 6123	09 33 000 6223
4	09 33 000 6119	09 33 000 6221



Conductor cross-section	Identification
0.14-0.37 mm² AWG 26-22	no groove
0.5 mm² AWG 20	no groove
0.75 mm² AWG 18	1 groove*
1 mm² AWG 18	1 groove
1.5 mm² AWG 16	2 groove
2.5 mm² AWG 14	3 groove
3 mm² AWG 12	wide groove
4 mm² AWG 12	no groove

* on the back crimp collar

Stripping length 7.5 mm

Features

- Standard module for power up to 16 A
- Han-Quick Lock® or crimp termination available

Technical characteristics

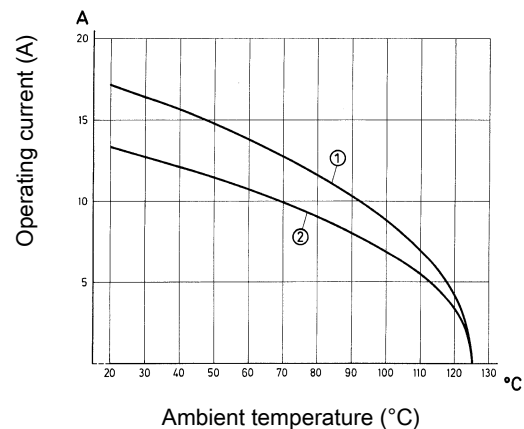
Number of contacts	6
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



① 24 B hoods/housings with 6 modules Conductor cross-section 2.5 mm²

② 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL
CSA-C22.2 No. 182.3 ECBT8.E235076

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

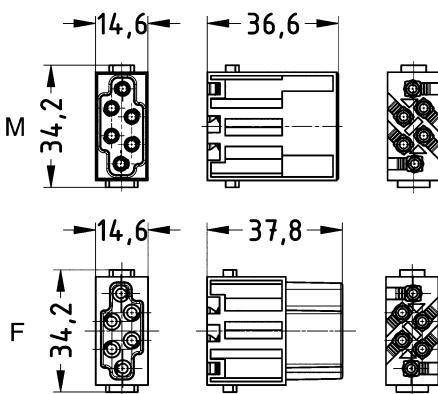
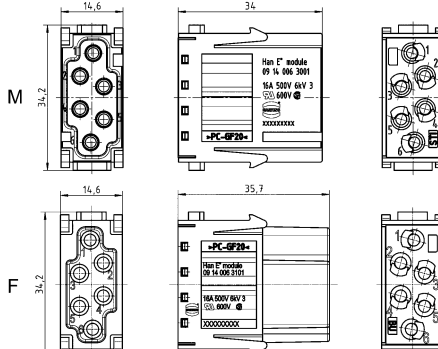
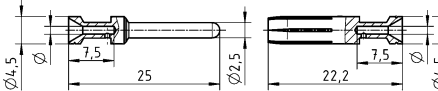
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

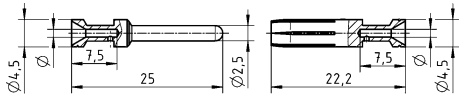
Number of contacts

6

16 A 500 V 6 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular®, Han E® module, Han-Quick Lock® termination, Contact surface: Silver plated 	0.5 ... 2.5	09 14 006 2633	09 14 006 2733																			
Han-Modular®, Han E® module, Crimp termination  Please order crimp contacts separately.	0.14 ... 4	09 14 006 3001	09 14 006 3101	 Contact arrangement (view from termination side)																		
Han E®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 3 4	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove
Conductor cross-section	Identification																					
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2.5 mm² AWG 14	3 groove																					
3 mm² AWG 12	wide groove																					
4 mm² AWG 12	no groove																					

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																											
		Male	Female																												
Han E®, Crimp contact, Contact surface: Gold plated	0.14 ... 0.37	09 33 000 6117	09 33 000 6217																												
	0.5	09 33 000 6122	09 33 000 6222																												
	0.75	09 33 000 6115	09 33 000 6215																												
	1	09 33 000 6118	09 33 000 6218																												
	1.5	09 33 000 6116	09 33 000 6216																												
	2.5	09 33 000 6123	09 33 000 6223																												
	4	09 33 000 6119	09 33 000 6221																												
				<table><tr><th colspan="2">Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>3 groove</td></tr><tr><td>3 mm²</td><td>AWG 12</td><td>wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section		Identification	0.14-0.37 mm²	AWG 26-22	no groove	0.5 mm²	AWG 20	no groove	0.75 mm²	AWG 18	1 groove*	1 mm²	AWG 18	1 groove	1.5 mm²	AWG 16	2 groove	2.5 mm²	AWG 14	3 groove	3 mm²	AWG 12	wide groove	4 mm²	AWG 12	no groove
Conductor cross-section		Identification																													
0.14-0.37 mm²	AWG 26-22	no groove																													
0.5 mm²	AWG 20	no groove																													
0.75 mm²	AWG 18	1 groove*																													
1 mm²	AWG 18	1 groove																													
1.5 mm²	AWG 16	2 groove																													
2.5 mm²	AWG 14	3 groove																													
3 mm²	AWG 12	wide groove																													
4 mm²	AWG 12	no groove																													

Number of contacts

5

16 A 230/400 V 4 kV 3

Modu-
lar

Features

- Screw connection, suitable for all users around the world
- No special tools required
- for flexible and solid conductors from 0.5 to 2.5 mm²
- Additional protection against voltage and accidental contact by a sliding insulation cover which closes automatically during mating.

Technical characteristics

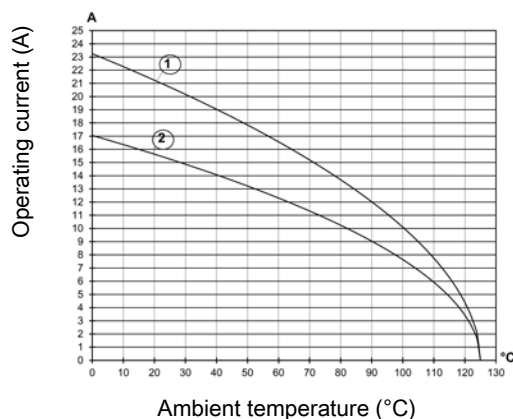
Number of contacts	5
Rated current	16 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Insulation resistance	>10 ¹⁰ Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

Current carrying capacity

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

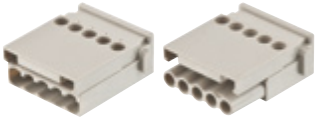
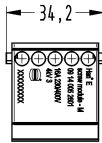
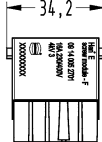
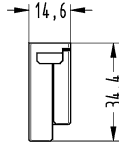
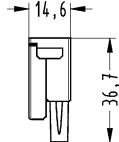
Measuring and testing techniques acc. to IEC 60512-5-2



- ① Conductor cross-section 2.5 mm²
- ② Conductor cross-section 1.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han E® module, Screw termination, Contact surface: Silver plated 	0.5 ... 2.5	09 14 005 2601	09 14 005 2701	M     Stripping length 7.5 mm Tightening torque 0.5 Nm

Modular

Features

- Suitable for Han E® crimp contacts
- Designed for a high working voltage up to 830 V
- Finger safe male and female contacts

Technical characteristics

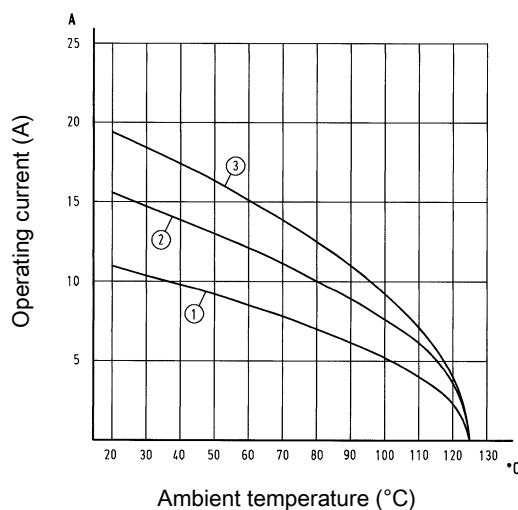
Number of contacts	6
Rated current	16 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 2.5 mm²
 ③ 24 B hoods/housings with 6 modules Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

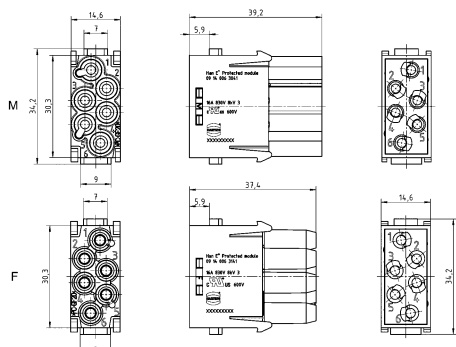
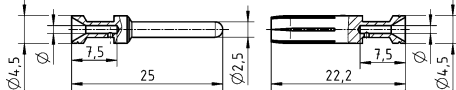
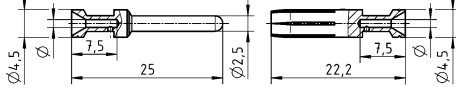
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

6

16 A 830 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular®, Han E® Protected module, Crimp termination  Please order crimp contacts separately.	0.14 ... 4	09 14 006 3041	09 14 006 3141	 Contact arrangement (view from termination side)																		
Han E®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 3 4	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove
Conductor cross-section	Identification																					
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0.75 mm² AWG 18	1 groove*																					
1 mm² AWG 18	1 groove																					
1.5 mm² AWG 16	2 groove																					
2.5 mm² AWG 14	3 groove																					
3 mm² AWG 12	wide groove																					
4 mm² AWG 12	no groove																					
Han E®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 4	09 33 000 6117 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	09 33 000 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove
Conductor cross-section	Identification																					
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0.5 mm² AWG 20	no groove																					
0.75 mm² AWG 18	1 groove*																					
1 mm² AWG 18	1 groove																					
1.5 mm² AWG 16	2 groove																					
2.5 mm² AWG 14	3 groove																					
3 mm² AWG 12	wide groove																					
4 mm² AWG 12	no groove																					

Features

- Han-Quick Lock® or crimp termination available
- High packing density

Technical characteristics

Number of contacts	8
Rated current	16 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant

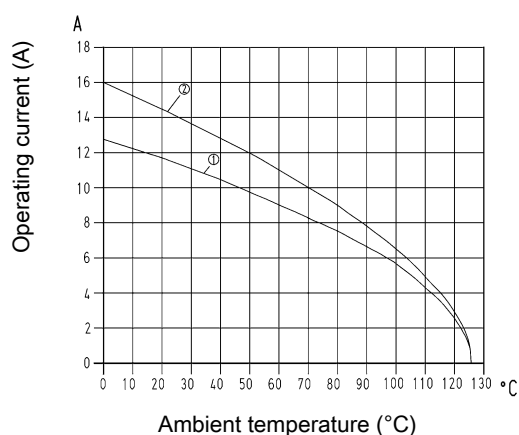
Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2

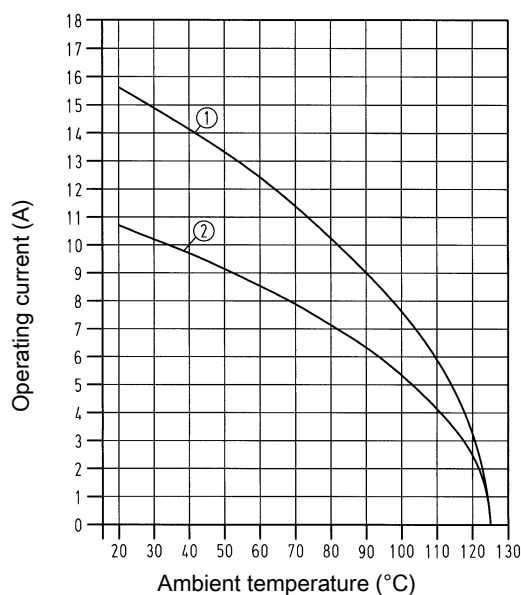
Han-Quick Lock® termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 2.5 mm²

Derating

Crimp termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 2.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

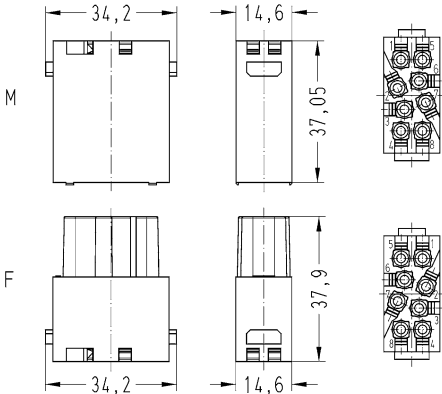
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

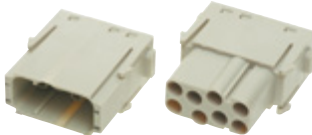
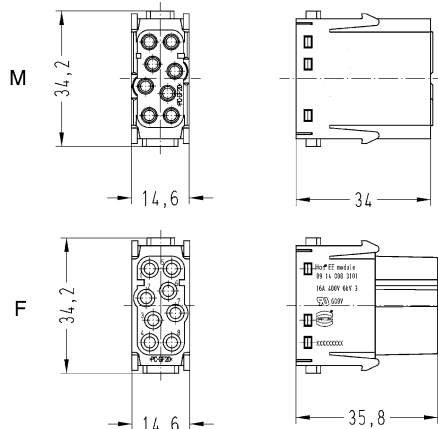
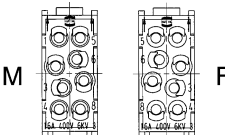
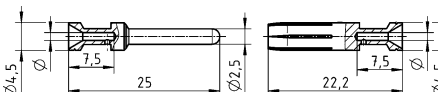
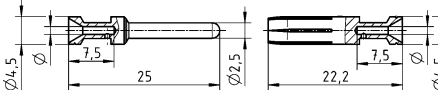
8

16 A 400 V 6 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® EE module, Han-Quick Lock® termination, Contact surface: Silver plated  Blue slide	0.5 ... 2.5	09 14 008 2633	09 14 008 2733	 Contact arrangement (view from termination side) Stripping length 10 mm
Han-Modular®, Han® EE module, Han-Quick Lock® termination, Contact surface: Silver plated  Black slide	0.25 ... 1.5	09 14 008 2634	09 14 008 2734	

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular®, Han® EE module, Crimp termination  Please order crimp contacts separately.	0.14 ... 4	09 14 008 3001	09 14 008 3101	  Contact arrangement (view from termination side) Stripping length 7.5 mm																		
Han E®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 3 4	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove
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0.75 mm² AWG 18	1 groove*																					
1 mm² AWG 18	1 groove																					
1.5 mm² AWG 16	2 groove																					
2.5 mm² AWG 14	3 groove																					
3 mm² AWG 12	wide groove																					
4 mm² AWG 12	no groove																					
Han E®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 4	09 33 000 6117 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	09 33 000 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove
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1.5 mm² AWG 16	2 groove																					
2.5 mm² AWG 14	3 groove																					
3 mm² AWG 12	wide groove																					
4 mm² AWG 12	no groove																					

Features

- Suitable for Han E® crimp contacts
- Higher density of crimping contacts
- Standard module for power up to 16 A
- Also suitable as a reliable signal connector

Technical characteristics

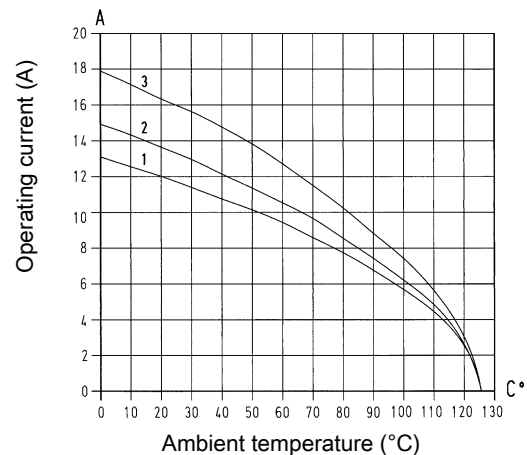
Number of contacts	20
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 3 modules Conductor cross-section 1.5 mm²
- ② 24 B hoods/housings with 3 modules Conductor cross-section 2.5 mm²
- ③ 24 B hoods/housings with 3 modules Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

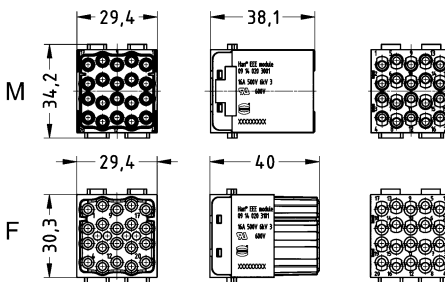
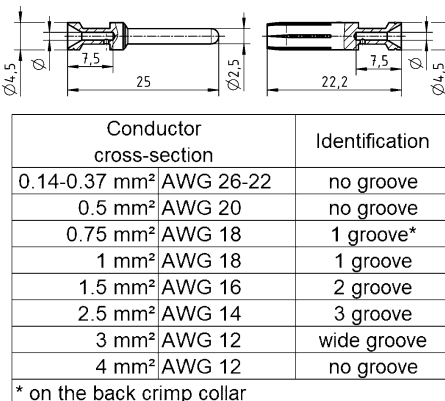
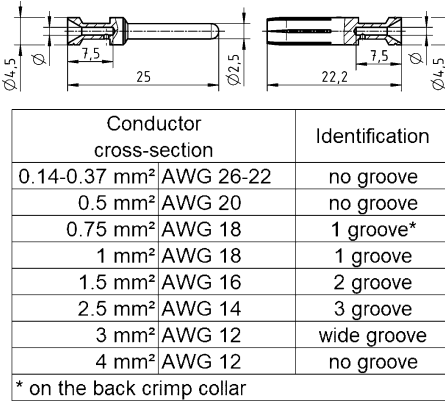
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

20

16 A 500 V 6 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® EEE module, Crimp termination	0.14 ... 4	09 14 020 3001	09 14 020 3101	
Please order crimp contacts separately.				Contact arrangement (view from termination side)
Han E®, Crimp contact, Contact surface: Silver plated	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 3 4	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	
				Stripping length 7.5 mm
Han E®, Crimp contact, Contact surface: Gold plated	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 4	09 33 000 6117 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	09 33 000 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221	
				Stripping length 7.5 mm

Features

- Reliable cage clamp termination
- No special tools required

Technical characteristics

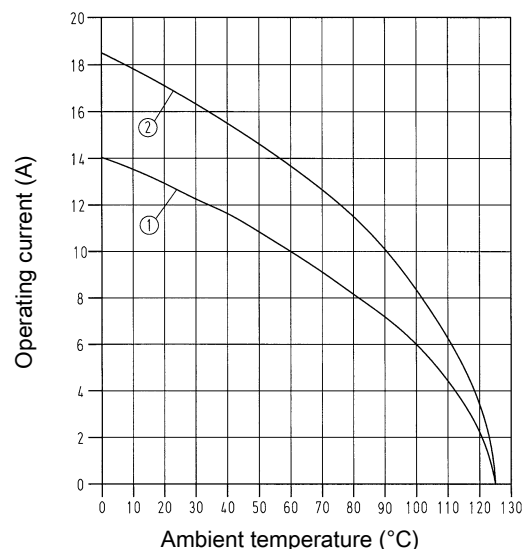
Number of contacts	5
Rated current	16 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 2.5 mm²

Specifications and approvals

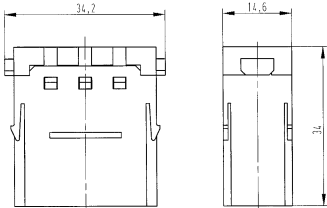
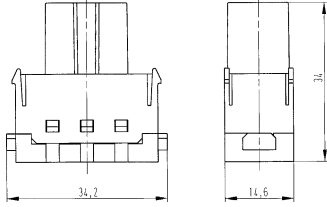
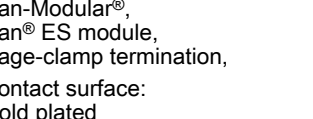
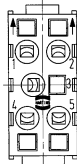
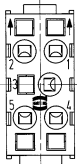
EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Number of contacts

5

16 A 400 V 6 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® ES module, Cage-clamp termination, Contact surface: Silver plated 	0.14 ... 2.5	09 14 005 2616	09 14 005 2716	M  F 
Han-Modular®, Han® ES module, Cage-clamp termination, Contact surface: Gold plated 	0.14 ... 2.5	09 14 005 2617	09 14 005 2717	M  F  Contact arrangement (view from termination side)

Features

- Interface for typical motor applications such as frequency-controlled drives
- 4 power contacts (pin 4 is pre-leading to be used as a PE)
- 2 signal contacts for temperature monitoring or breaks
- EMC compatible connection of the cable screen with a large-area shielding plate
- Shielded power cables can now be connectorised in combination with other cables

Technical characteristics

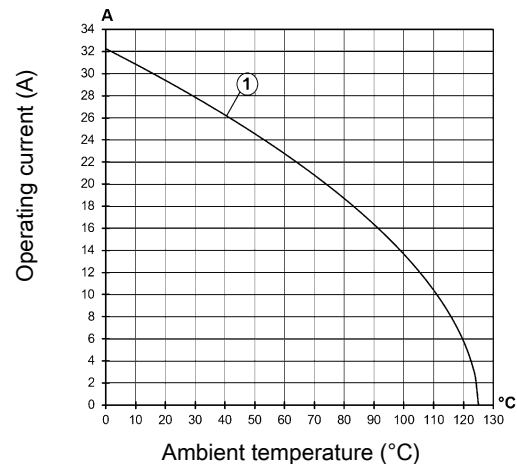
Number of contacts	4
Additional contacts	+ 2 additional signal contacts, + shielding
Rated current	16 A
Rated voltage	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	400 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega, \leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



① 24 B hoods/housings with 6 modules Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
IEC 61984

Details

Contact resistance Han D® crimp contact: $\leq 3 \text{ m}\Omega$

Contact resistance Han E® crimp contact: $\leq 1 \text{ m}\Omega$

Crimping tools see chapter Han 90

Remarks on the crimp technique

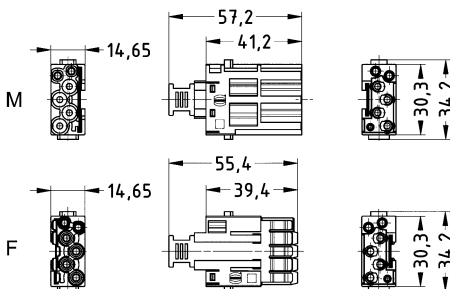
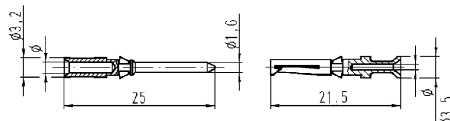
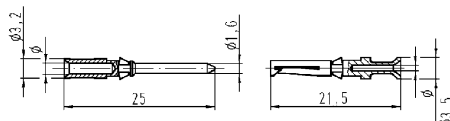
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

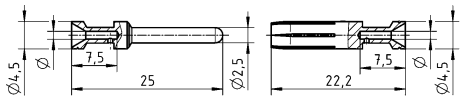
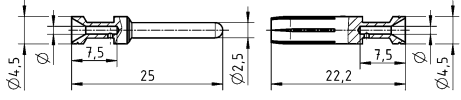
Number of contacts

4

16 A 400 V 4 kV 3
10 A 400 V 4 kV 3
+ 2 additional signal contacts + shielding

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Modular®, Han® Shielded power module, With shielding plate, Crimp termination  Please order crimp contacts separately. 4x Han E® 2x Han D®	0.14 ... 4	09 14 006 3021	09 14 006 3121	M F  Contact arrangement (view from termination side)																					
Han D®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106	09 15 000 6204 09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
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2.5 mm² AWG 14	2.25 mm	6 mm																							
Han D®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	ø	Stripping length																							
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Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han E®, Crimp contact, Contact surface: Silver plated	0.14 ... 0.37	09 33 000 6127	09 33 000 6227																			
	0.5	09 33 000 6121	09 33 000 6220																			
	0.75	09 33 000 6114	09 33 000 6214																			
	1	09 33 000 6105	09 33 000 6205																			
	1.5	09 33 000 6104	09 33 000 6204																			
	2.5	09 33 000 6102	09 33 000 6202																			
	3	09 33 000 6106	09 33 000 6206																			
	4	09 33 000 6107	09 33 000 6207																			
				<table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove
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3 mm² AWG 12	wide groove																					
4 mm² AWG 12	no groove																					
				Stripping length 7.5 mm																		
Han E®, Crimp contact, Contact surface: Gold plated	0.14 ... 0.37	09 33 000 6117	09 33 000 6217																			
	0.5	09 33 000 6122	09 33 000 6222																			
	0.75	09 33 000 6115	09 33 000 6215																			
	1	09 33 000 6118	09 33 000 6218																			
	1.5	09 33 000 6116	09 33 000 6216																			
	2.5	09 33 000 6123	09 33 000 6223																			
	4	09 33 000 6119	09 33 000 6221																			
						<table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove
Conductor cross-section		Identification																				
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1 mm² AWG 18		1 groove																				
1.5 mm² AWG 16		2 groove																				
2.5 mm² AWG 14		3 groove																				
3 mm² AWG 12	wide groove																					
4 mm² AWG 12	no groove																					
				Stripping length 7.5 mm																		

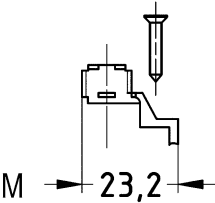
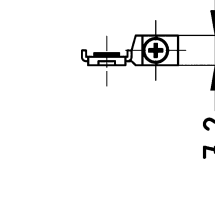
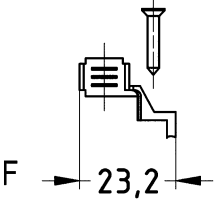
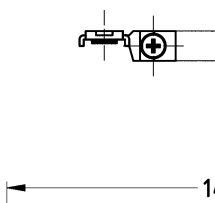
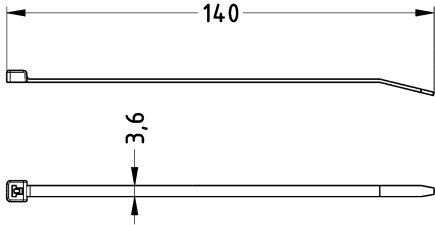
Modu-
lar

Features

- Optional Shielding termination to the hinged frames with the GND adapter

Technical characteristics

Material (accessories)	Metal, Polyamide (PA)
Colour (accessories)	Black

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han® Shielded power module, GND Adapter 	09 14 000 9807	09 14 000 9808	   
Cable tie, With metal latch 	09 14 000 9809	09 14 000 9809	

Features

- Available in two versions: for Han® C or Han E® crimp contacts
- 2 contacts up to 5000 V
- Insulator out of a voltage resistant teflon material
- Combination with all other modules (pneumatic, signal etc.)

Technical characteristics

Number of contacts	2
Rated current	40 A, 16 A
Rated voltage conductor-earth	2900 V
Rated voltage conductor-conductor	5000 V
Rated impulse voltage	15 kV
Pollution degree	3
Rated current acc. to UL	31 A, 16 A
Rated voltage acc. to UL	5000 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate / Teflon (PTFE)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

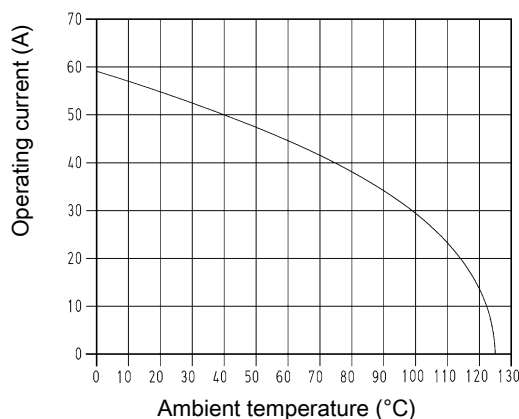
Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2

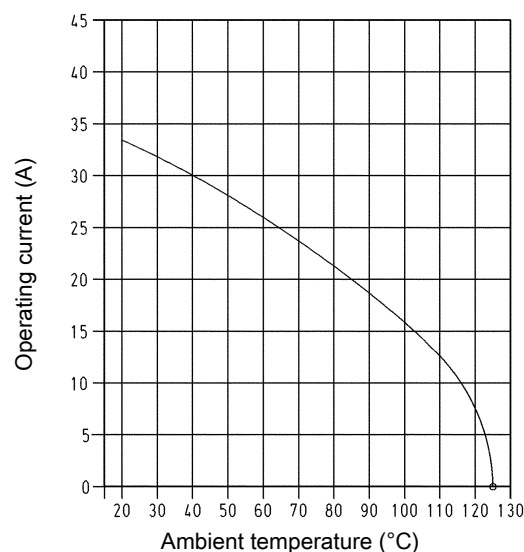
Han® C crimp contacts



① 24 B hoods/housings with 3 modules Conductor cross-section 6 mm²

Derating

Han E® crimp contacts



① Housing Han® 16 B with 1 Han® HV module Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
EN 50124-1
IEC 60352-4
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

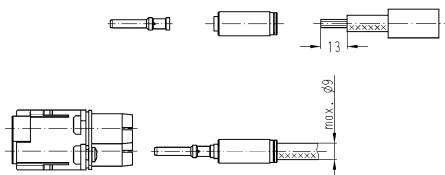
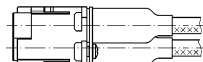
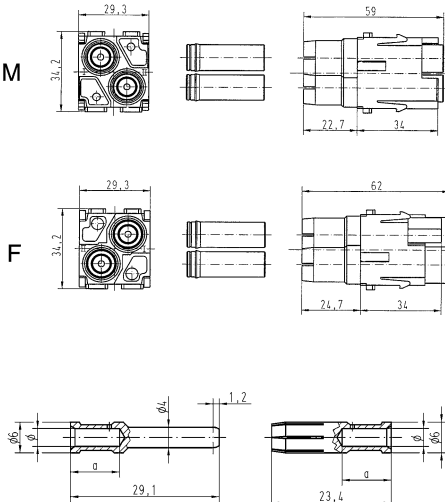
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

2

40 A 2.900/5.000 V 15 kV 3

Modu-
lar

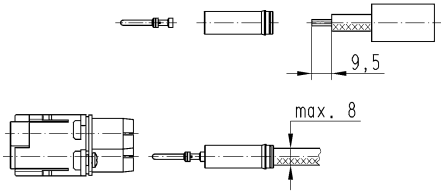
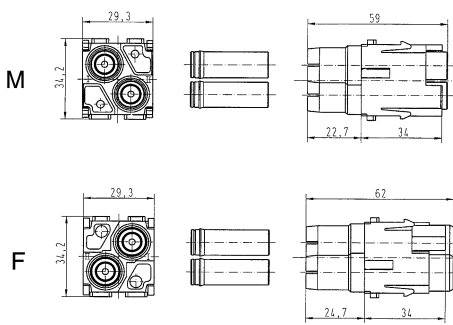
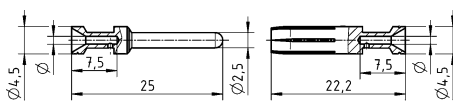
Identification	Conductor cross-section (mm ²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® HV module, for Han® C crimp contacts, Crimp termination, Pack contents: 1 module, 2 locking sleeves, 2 heat shrink tubes  Please order crimp contacts separately.	1.5 ... 10	09 14 002 3023	09 14 002 3123	Assembly instructions   ATTENTION! Stripping length 13 mm Crimp with tool 09 99 000 0888, 09 99 000 0110 or 09 99 000 0377 Snap crimped cable in the insert. Shrink the heat shrink tube over the rear of contact.
Han® C, Crimp contact, Contact surface: Silver plated 	1.5 2.5 4 6 10	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108 09 32 000 6109	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208 09 32 000 6209	

Number of contacts

2

16 A 2.900/5.000 V 15 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® HV module, for Han E® crimp contacts, Crimp termination, Pack contents: 1 module, 2 locking sleeves, 2 heat shrink tubes  Please order crimp contacts separately.	0.5 ... 4	09 14 002 3021	09 14 002 3121	Assembly instructions  ATTENTION! Stripping length 9.5 mm Crimp with crimping tool 09 99 000 0888 Snap crimped cable in the insert. Shrink the heat shrink tube over the rear of contact.  
Han E®, Crimp contact, Contact surface: Silver plated 	0.5 0.75 1 1.5 2.5 3 4	09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	

Features

- Suitable for Han E® crimp contacts
- 2 contacts up to 2500 V
- Insulator out of a voltage resistant teflon material
- Combination with all other modules (pneumatic, signal etc.)

Technical characteristics

Number of contacts	2
Rated current	16 A
Rated voltage	2500 V
Rated impulse voltage	15 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate / Teflon (PTFE)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

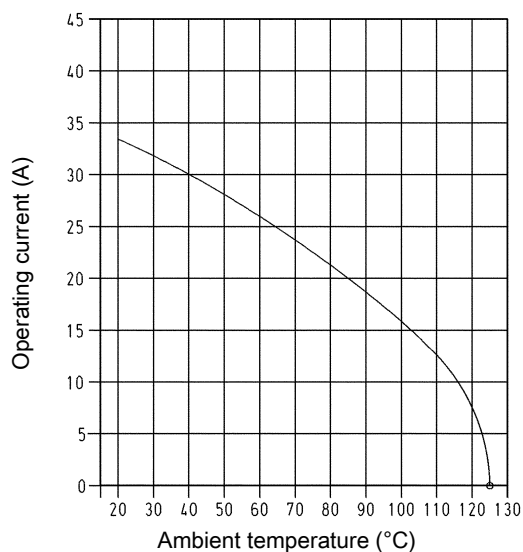
Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2

Han E® crimp contacts



① Housing Han® 16 B with 1 Han® HV module Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
EN 50124-1
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

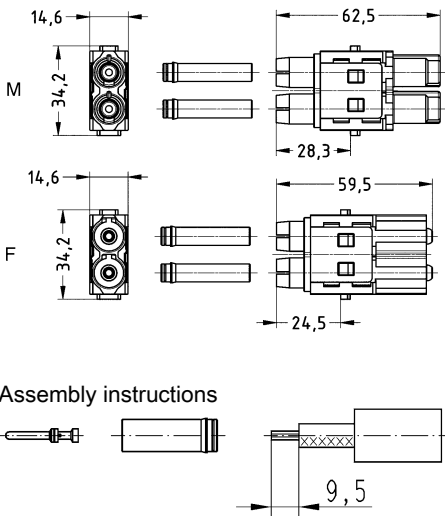
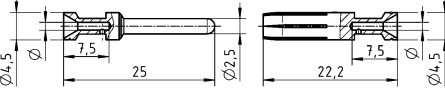
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

2

16 A 2.500 V 15 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® HV module, Single module, Crimp termination, Pack contents: 1 module, 2 locking sleeves, 2 heat shrink tubes  Please order crimp contacts separately.	0.5 ... 4	09 14 002 3025	09 14 002 3125	 Assembly instructions ATTENTION! Stripping length 9.5 mm Crimp with crimping tool 09 99 000 0888 Snap crimped cable in the insert. Shrink the heat shrink tube over the rear of contact.
Han E®, Crimp contact, Contact surface: Silver plated 	0.5 0.75 1 1.5 2.5 3 4	09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	

Features

- Han-Quick Lock[®] or crimp termination available
- Standard module for signal up to 10 A

Technical characteristics

Number of contacts	12
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant

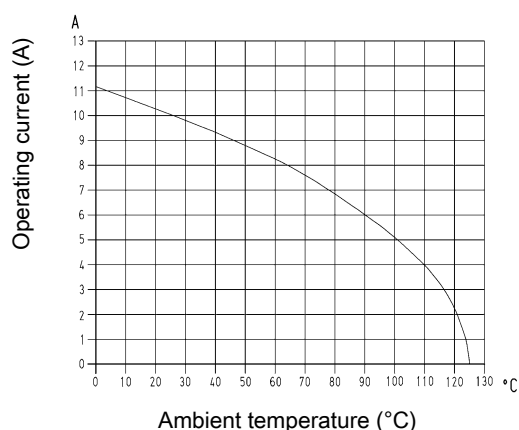
Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2

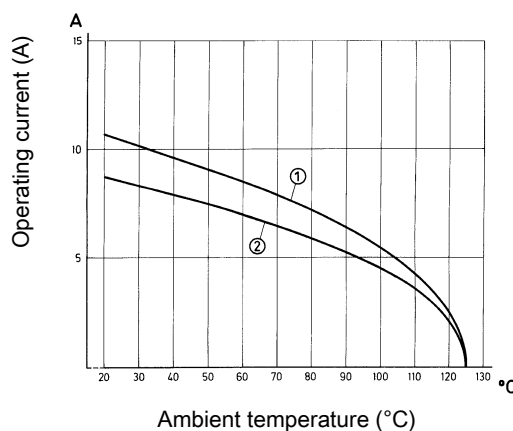
Han-Quick Lock[®] termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²

Derating

Crimp termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²
- ② 24 B hoods/housings with 6 modules Conductor cross-section 1 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Crimping tools see chapter Han 90

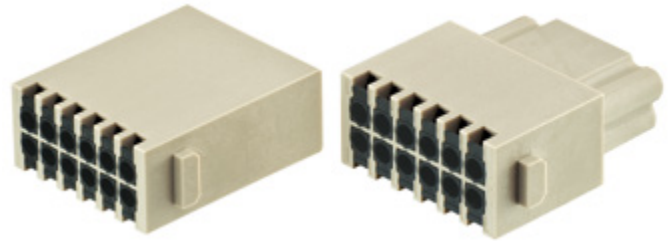
Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

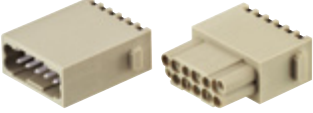
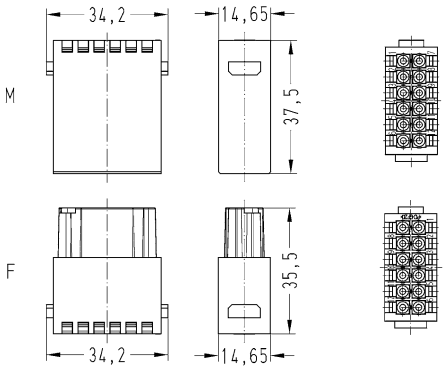
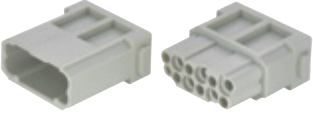
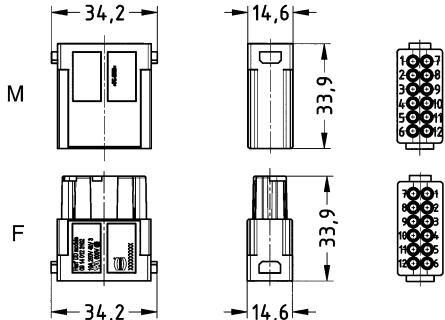
Number of contacts

12

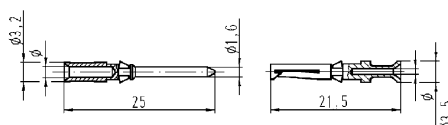
10 A 250 V 4 kV 3



Modu-
lar

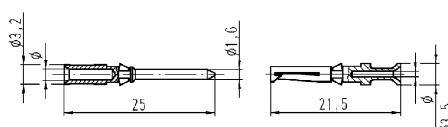
Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han DD® module, Han-Quick Lock® termination, Contact surface: Silver plated  Black slide	0.25 ... 1.5	09 14 012 2632	09 14 012 2732	 Contact arrangement (view from termination side) Stripping length 10 mm
Han-Modular®, Han DD® module, Han-Quick Lock® termination, Contact surface: Gold plated Black slide	0.25 ... 1.5	09 14 012 2634	09 14 012 2734	
Han-Modular®, Han DD® module, Crimp termination  Please order crimp contacts separately.	0.14 ... 2.5	09 14 012 3002	09 14 012 3102	 Contact arrangement (view from termination side)

Identification	Conductor cross-section (mm ²)	Part number	
		Male	Female
Han D®, Crimp contact, Contact surface: Silver plated	0.14 ... 0.37	09 15 000 6104	09 15 000 6204
	0.5	09 15 000 6103	09 15 000 6203
	0.75	09 15 000 6105	09 15 000 6205
	1	09 15 000 6102	09 15 000 6202
	1.5	09 15 000 6101	09 15 000 6201
	2.5	09 15 000 6106	09 15 000 6206



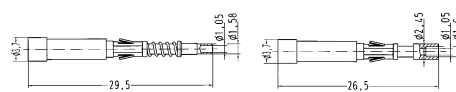
Conductor cross-section	Ø	Stripping length
0.14-0.37 mm ² AWG 26-22	0.9 mm	8 mm
0.5 mm ² AWG 20	1.1 mm	8 mm
0.75 mm ² AWG 18	1.3 mm	8 mm
1 mm ² AWG 18	1.45 mm	8 mm
1.5 mm ² AWG 16	1.75 mm	8 mm
2.5 mm ² AWG 14	2.25 mm	6 mm

Han D®, Crimp contact, Contact surface: Gold plated	0.14 ... 0.37	09 15 000 6124	09 15 000 6224
	0.5	09 15 000 6123	09 15 000 6223
	0.75	09 15 000 6125	09 15 000 6225
	1	09 15 000 6122	09 15 000 6222
	1.5	09 15 000 6121	09 15 000 6221
	2.5	09 15 000 6126	09 15 000 6226



Conductor cross-section	Ø	Stripping length
0.14-0.37 mm ² AWG 26-22	0.9 mm	8 mm
0.5 mm ² AWG 20	1.1 mm	8 mm
0.75 mm ² AWG 18	1.3 mm	8 mm
1 mm ² AWG 18	1.45 mm	8 mm
1.5 mm ² AWG 16	1.75 mm	8 mm
2.5 mm ² AWG 14	2.25 mm	6 mm

FO contact, for 1 mm plastic fibre		20 10 001 3211	20 10 001 3221
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20 10 001 3211 + 20 10 001 3221

Features

- 36 Han D® contacts up to 400 V
- Suitable for transmitting power (10 A) and signals in one module
- e.g. for three phase AC motors including feedback for all six axes of a robot

Technical characteristics

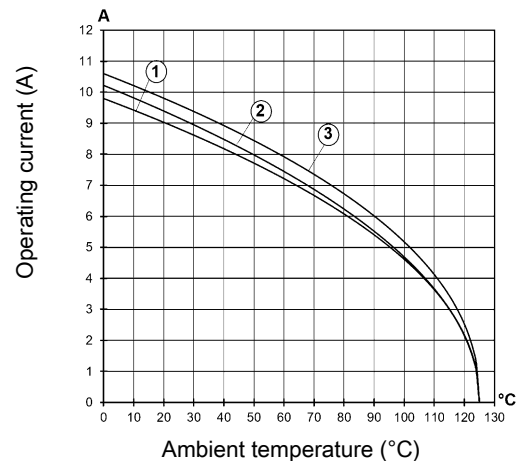
Number of contacts	36
Rated current	10 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 3 modules Conductor cross-section 1 mm²
- ② 24 B hoods/housings with 3 modules Conductor cross-section 1.5 mm²
- ③ 24 B hoods/housings with 3 modules Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

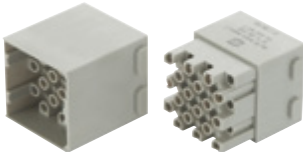
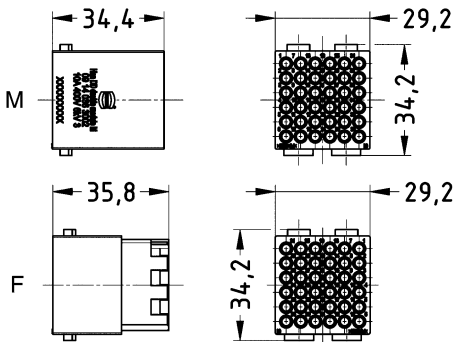
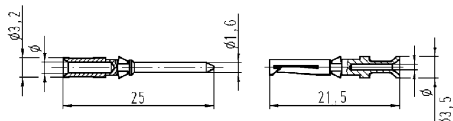
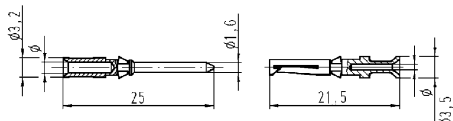
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

36

10 A 400 V 6 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Modular®, Han DD® module, Crimp termination  Please order crimp contacts separately.	0.14 ... 2.5	09 14 036 3002	09 14 036 3102	 Contact arrangement (view from termination side)																					
Han D®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106	09 15 000 6204 09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206	 <table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							
Han D®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	 <table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							

Technical characteristics

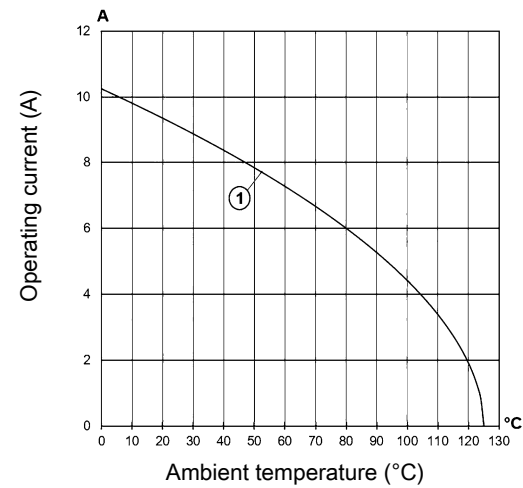
Number of contacts	42
Rated current	10 A
Rated voltage	150 V
Rated impulse voltage	2.5 kV
Pollution degree	3
Rated voltage acc. to UL	250 V
Insulation resistance	>10 ¹⁰ Ω
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Liquid crystal polymer (LCP)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



① 24 B hoods/housings with 3 modules Conductor cross-section 1.5 mm²

Specifications and approvals

UL 1977 ECBT2.E235076
EN 60664-1
IEC 61984

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

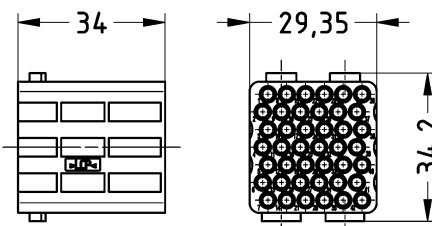
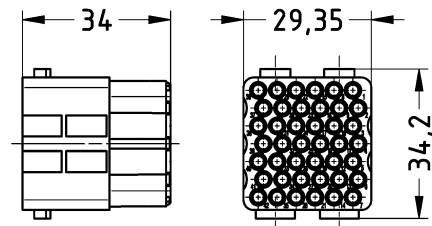
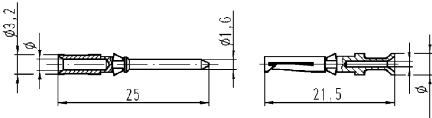
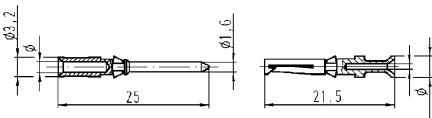
Modu-
lar

Number of contacts

42

10 A 150 V 2.5 kV 3

Mod-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Modular®, Han DD® Quad module, Crimp termination  Please order crimp contacts separately.	0.14 ... 2.5	09 14 042 3001	09 14 042 3101	 																					
Han D®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106	09 15 000 6204 09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
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1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							
Han D®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							

Features

- Suitable for Han D® crimp contacts
- High packing density

Technical characteristics

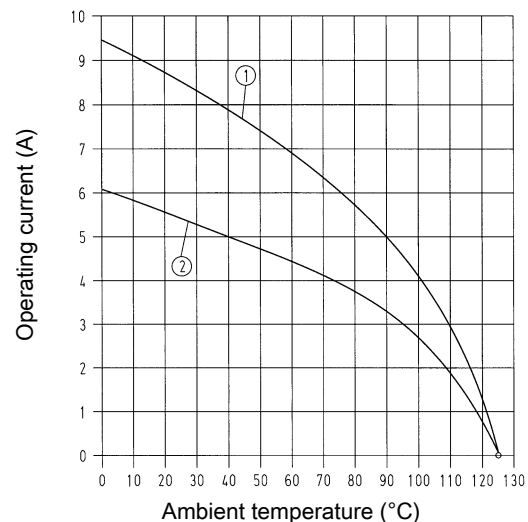
Number of contacts	17
Rated current	10 A
Rated voltage	160 V
Rated impulse voltage	2.5 kV
Pollution degree	3
Rated voltage acc. to UL	250 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 1 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

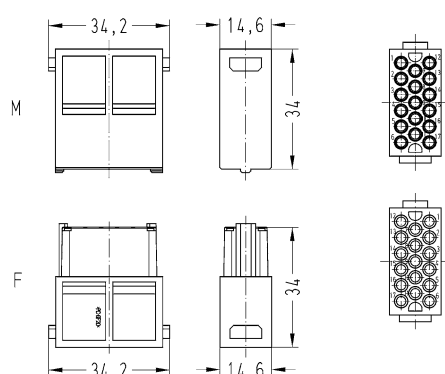
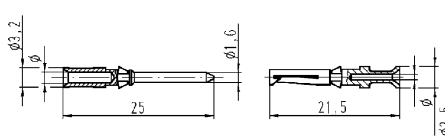
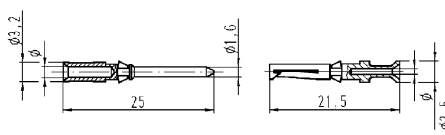
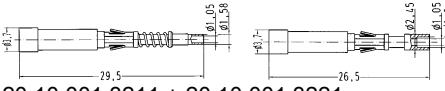
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

17

10 A 160 V 2.5 kV 3

Mod-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Modular®, Han® DDD module, Crimp termination  Please order crimp contacts separately.	0.14 ... 2.5	09 14 017 3001	09 14 017 3101	 Contact arrangement (view from termination side)																					
Han D®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106	09 15 000 6204 09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206	 <table><thead><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr></thead><tbody><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></tbody></table>	Conductor cross-section	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							
Han D®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	 <table><thead><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr></thead><tbody><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></tbody></table>	Conductor cross-section	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							
FO contact, for 1 mm plastic fibre 		20 10 001 3211	20 10 001 3221	 20 10 001 3211 + 20 10 001 3221																					

Features

- Suitable for standard D-Sub crimp contacts
- High packing density

Technical characteristics

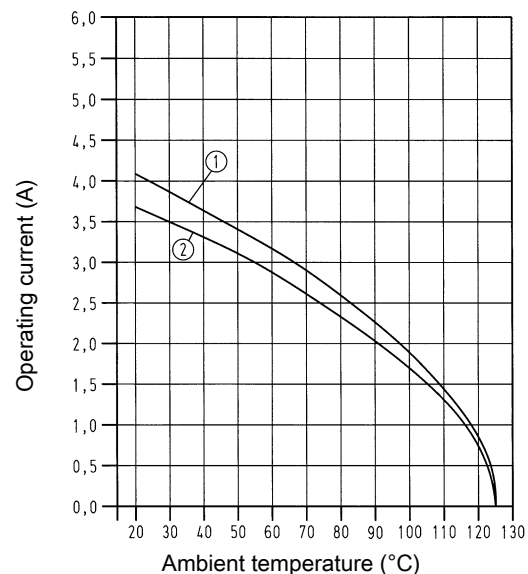
Number of contacts	25
Rated current	4 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage acc. to UL	30 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



① 24 B hoods/housings with 6 modules; turned contacts Conductor cross-section 0.5 mm²

② 24 B hoods/housings with 6 modules; stamped contacts Conductor cross-section 0.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076

Details

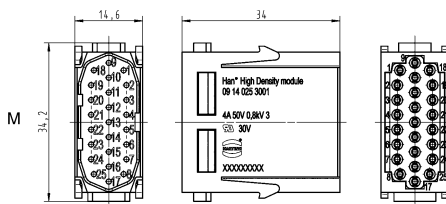
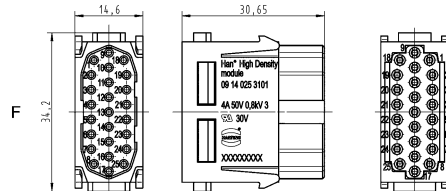
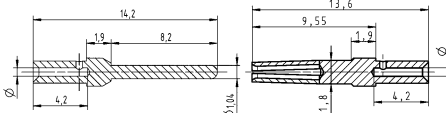
Guide pins and bushes are recommended (see chapter Han 80).

Number of contacts

25

4 A 50 V 0.8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular®, Han® High Density module, Crimp termination  Please order crimp contacts separately.	0.09 ... 0.52	09 14 025 3001	09 14 025 3101	  Contact arrangement (view from termination side)  <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.09-0.25 mm²</td><td>0.64 mm</td><td>4 mm</td></tr><tr><td>0.13-0.33 mm²</td><td>0.88 mm</td><td>4 mm</td></tr><tr><td>0.25-0.52 mm²</td><td>1.13 mm</td><td>4 mm</td></tr><tr><td>0.33-0.82 mm²</td><td>1.34 mm</td><td>4 mm</td></tr></table> for stranded wire according IEC 60228 Class 5	Conductor cross-section	ø	Stripping length	0.09-0.25 mm²	0.64 mm	4 mm	0.13-0.33 mm²	0.88 mm	4 mm	0.25-0.52 mm²	1.13 mm	4 mm	0.33-0.82 mm²	1.34 mm	4 mm
Conductor cross-section	ø	Stripping length																	
0.09-0.25 mm²	0.64 mm	4 mm																	
0.13-0.33 mm²	0.88 mm	4 mm																	
0.25-0.52 mm²	1.13 mm	4 mm																	
0.33-0.82 mm²	1.34 mm	4 mm																	
D-Sub, Standard, Crimp contact 	0.09 ... 0.25 0.13 ... 0.33 0.25 ... 0.52	09 67 000 7576 09 67 000 5576 09 67 000 8576	09 67 000 7476 09 67 000 5476 09 67 000 8476																

Features

- Suitable for standard D-Sub crimp contacts
- 44 % higher density

Technical characteristics

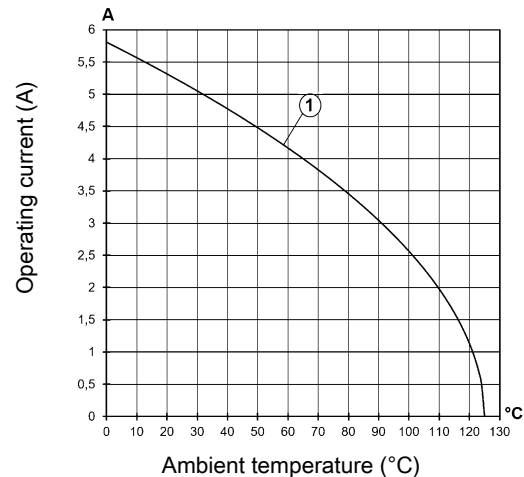
Number of contacts	36
Rated current	4 A
Rated voltage	32 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

Current carrying capacity

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

Measuring and testing techniques acc. to IEC 60512-5-2



① 6 B hoods/housings with 2 modules Conductor cross-section 0.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984

Han® Full High Density module

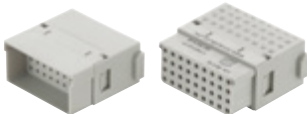
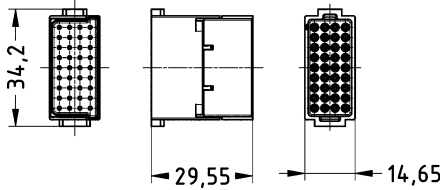
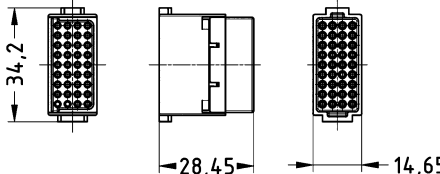
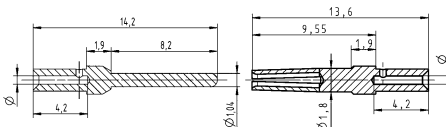


Number of contacts

36

4 A 32 V 0.8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular®, Han® Full High Density module, Crimp termination  Please order crimp contacts separately.	0.09 ... 0.52	09 14 036 3001	09 14 036 3101	 															
D-Sub, Standard, Crimp contact 	0.09 ... 0.25 0.13 ... 0.33 0.25 ... 0.52	09 67 000 7576 09 67 000 5576 09 67 000 8576	09 67 000 7476 09 67 000 5476 09 67 000 8476	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.09-0.25 mm²</td><td>0.64 mm</td><td>4 mm</td></tr><tr><td>0.13-0.33 mm²</td><td>0.88 mm</td><td>4 mm</td></tr><tr><td>0.25-0.52 mm²</td><td>1.13 mm</td><td>4 mm</td></tr><tr><td>0.33-0.82 mm²</td><td>1.34 mm</td><td>4 mm</td></tr></table> for stranded wire according IEC 60228 Class 5	Conductor cross-section	ø	Stripping length	0.09-0.25 mm²	0.64 mm	4 mm	0.13-0.33 mm²	0.88 mm	4 mm	0.25-0.52 mm²	1.13 mm	4 mm	0.33-0.82 mm²	1.34 mm	4 mm
Conductor cross-section	ø	Stripping length																	
0.09-0.25 mm²	0.64 mm	4 mm																	
0.13-0.33 mm²	0.88 mm	4 mm																	
0.25-0.52 mm²	1.13 mm	4 mm																	
0.33-0.82 mm²	1.34 mm	4 mm																	

Han
06
·
86

Features

- EMC compatible connection of the cable screen with a large-area shielding plate
- High contact density up to 27 shielded contacts
- Suitable for turned or stamped D-Sub contacts
- Applicable as cost effective shielding connection

Technical characteristics

Number of contacts	27
Additional contacts	+ shielding
Rated current	4 A
Rated voltage	32 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	>10 ¹⁰ Ω
Contact resistance	≤10 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Polyamide (PA), Metal
Colour (accessories)	Black
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984

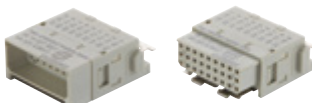
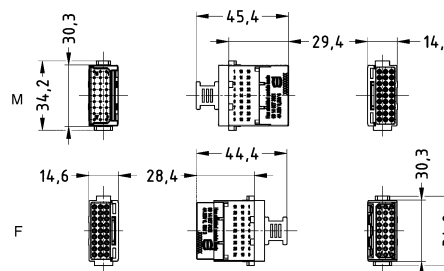
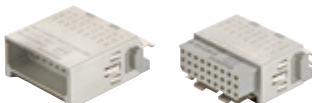
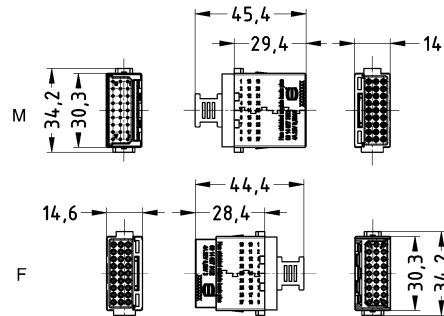
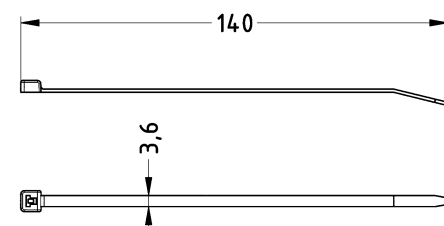
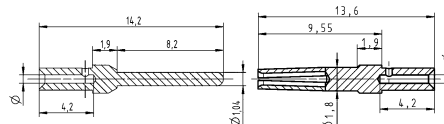
Modu-
lar

Number of contacts

27

4 A 32 V 0.8 kV 3
+ shielding

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular®, Han® Shielded module basic, With 180° shielding element, Crimp termination  Please order crimp contacts separately.	0.09 ... 0.52	09 14 027 3021	09 14 027 3121																
Han-Modular®, Han® Shielded module basic plus, With 360° shielding element, Crimp termination  With additional shield connection to the hinged frame Please order crimp contacts separately.	0.09 ... 0.52	09 14 027 3022	09 14 027 3122																
Cable tie, With metal latch 		09 14 000 9809	09 14 000 9809																
D-Sub, Standard, Crimp contact 	0.09 ... 0.25 0.13 ... 0.33 0.25 ... 0.52	09 67 000 7576 09 67 000 5576 09 67 000 8576	09 67 000 7476 09 67 000 5476 09 67 000 8476	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.09-0.25 mm²</td><td>0.64 mm</td><td>4 mm</td></tr><tr><td>0.13-0.33 mm²</td><td>0.88 mm</td><td>4 mm</td></tr><tr><td>0.25-0.52 mm²</td><td>1.13 mm</td><td>4 mm</td></tr><tr><td>0.33-0.82 mm²</td><td>1.34 mm</td><td>4 mm</td></tr></table> for stranded wire according IEC 60228 Class 5	Conductor cross-section	ø	Stripping length	0.09-0.25 mm²	0.64 mm	4 mm	0.13-0.33 mm²	0.88 mm	4 mm	0.25-0.52 mm²	1.13 mm	4 mm	0.33-0.82 mm²	1.34 mm	4 mm
Conductor cross-section	ø	Stripping length																	
0.09-0.25 mm²	0.64 mm	4 mm																	
0.13-0.33 mm²	0.88 mm	4 mm																	
0.25-0.52 mm²	1.13 mm	4 mm																	
0.33-0.82 mm²	1.34 mm	4 mm																	

Features

- D-Sub 1 (9-pin) in the Han-Modular® system
- Suitable for the transmission of sensitive signals
- Compatible to crimp, solder or IDC termination

Technical characteristics

Number of contacts	9
Rated current	5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage acc. to UL	30 V
Insulation resistance	>10 ¹⁰ Ω
Contact resistance	≤10 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC), Zinc die-cast
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

Guide pins and bushes are recommended (see chapter Han 80).

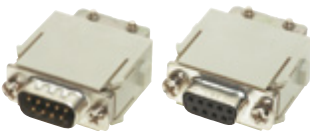
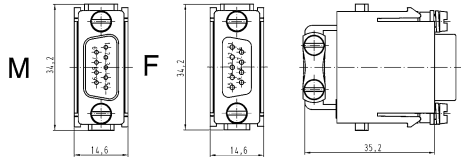
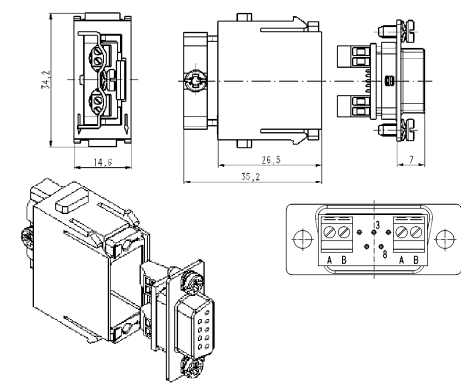
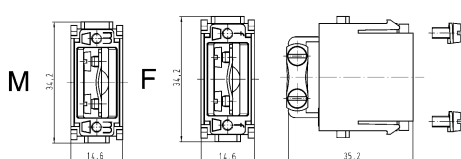
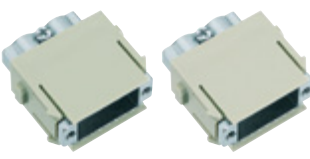
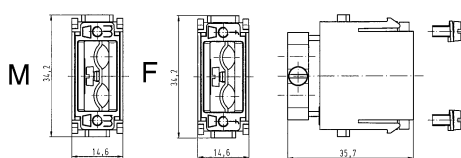
Modu-
lar

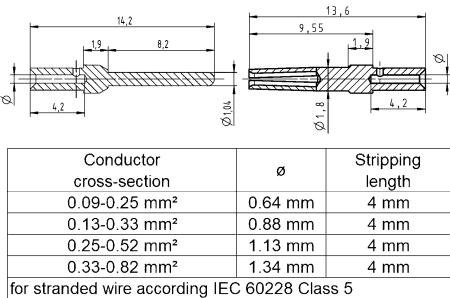
Number of contacts

9

5 A 50 V 0.8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® D-Sub module, Crimp termination  Please order crimp contacts separately.	0.08 ... 0.52	09 14 009 3001	09 14 009 3101	
Han-Modular®, Han® D-Sub module, Screw termination  for RS 485-based bus systems with T-functionality	0.08 ... 0.52		09 14 009 3151	 Contact arrangement (view from termination side) Signal A: Contact no. 8 Signal B: Contact no. 3
Han-Modular®, Adapter module, for D-Sub 1 (9-pin)  for one cable		09 14 000 9930	09 14 000 9931	
Han-Modular®, Adapter module, for D-Sub 1 (9-pin)  for two cables		09 14 000 9932	09 14 000 9933	

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
D-Sub, Standard, Crimp contact	0.09 ... 0.25	09 67 000 7576	09 67 000 7476	
	0.13 ... 0.33	09 67 000 5576	09 67 000 5476	
	0.25 ... 0.52	09 67 000 8576	09 67 000 8476	



Modu-
lar



Modu-
lar

Features

- According to USB 2.0 / USB 3.0 specification
- Simple and cost effective termination by plug in patch cable
- Cable tie strain relief

Technical characteristics

Number of contacts	4, 8
Rated current	1 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage acc. to UL	30 V
Insulation resistance	>10 ¹⁰ Ω
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

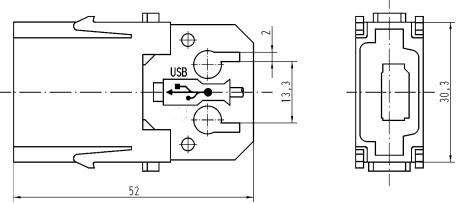
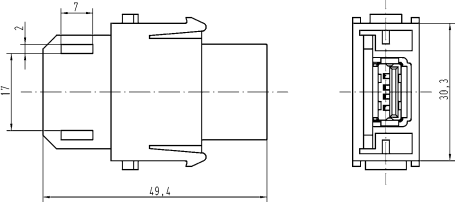
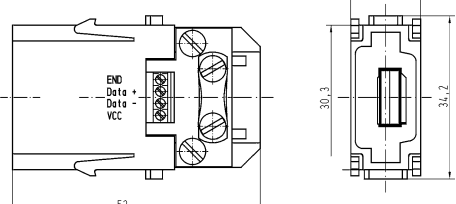
EN 60664-1
IEC 60352-4
UL 1977 ECBT2.E235076
DNV GL

Number of contacts

4

1 A 50 V 0.8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® USB module, for patch cable  USB 2.0	0.14 ... 0.5	09 14 001 4601	09 14 001 4701	
Han-Modular®, Han® USB module, for patch cable  USB 3.0			09 14 001 4703	
Han-Modular®, Han® USB module, for screw termination, Screw termination  USB 2.0		09 14 001 4651		 Stripping length 4.5 mm Tightening torque 0.12 Nm

1 A 50 V 0.8 kV 3

Modu-
lar

Features

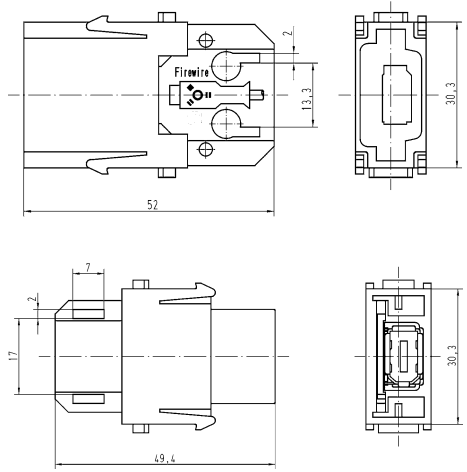
- Compatibel to IEEE 1394
- Simple and cost effective termination by plug in patch cable
- Cable tie strain relief

Technical characteristics

Number of contacts	6
Rated current	1 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® FireWire module, for patch cable 	09 14 001 4611	09 14 001 4711	

Number of contacts

8

Modu-
lar

Features

- Single module with standard shielded RJ45 plug and jack
- Cat. 6 for all data pairs (8-pin)
- Patch cables are assembled/removed without tools

Technical characteristics

Number of contacts	8, 4
Rated current	1 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage acc. to UL	30 V
Insulation resistance	>10 ¹⁰ Ω
Limiting temperature	-40 ... +70 °C
Mating cycles	≥500
Transmission characteristics	Cat. 6A, Class E _A up to 500 MHz, Cat. 5, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 10 Gbit/s
Material (insert)	Polyamide (PA), Polycarbonate (PC), Zinc die-cast, nickel-plated
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL
UL 1977 ECBT2.E235076

Identification

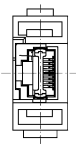
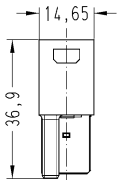
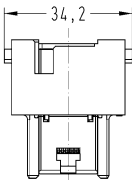
Part number
Female

Drawing
(dimensions in mm)

Han-Modular®,
Han® RJ45 module,
Gender changer,
for patch cable,
8-pins,
Cat. 6A



09 14 001 4721



Han-Modular®,
Han® RJ45 module,
Single module



09 14 001 4722

Please order insert separately.

Modu-
lar

Identification		Part number Female	Drawing (dimensions in mm)
Data connectors, Han® RJ45 cable jack, preLink® IDC insulation displacement termination, 8-pins, Cat. 6_A 	AWG 23 ... AWG 22	09 14 008 4720	
Data connectors, Han® RJ45 cable jack, IDC termination, 4-pin, Cat. 5 	AWG 24 ... AWG 22	09 14 545 1120	
Data connectors, Han® RJ45 cable jack, IDC termination, 8-pins, Cat. 6_A 	AWG 24 ... AWG 22 AWG 28 ... AWG 24	09 14 545 1562 09 14 545 1561	

Features

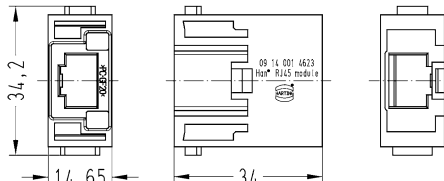
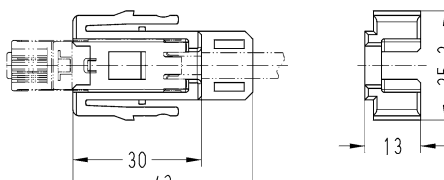
- Single module with standard shielded RJ45 plug and jack
- The RJ45 inserts are protected by a reliable plastic insulator
- 360° shielded contact
- Field assembly without tools possible by means of *HARAX®* rapid termination in IDC technology
- Suitable for termination of massive and flexible wires

Technical characteristics

Number of contacts	4
Insulation resistance	$>10^{10} \Omega$
Limiting temperature	-40 ... +70 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 1.6 \text{ mm}$
Transmission characteristics	Cat. 5, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s
Material (insert)	Polycarbonate (PC), Polyamide (PA)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL
IEC 60603-7
DIN EN 45545-2 R26: HL1, HL2, HL3

Identification		Part number Male	Drawing (dimensions in mm)
Han-Modular®, Han® RJ45 module, Single module 		09 14 001 4623	
Data connectors, RJ Industrial RJ45 connector set, Shielded 	AWG 24 ... AWG 22 AWG 26	09 45 400 1100 09 45 400 1109	 Wire outer diameter $\leq 1.6 \text{ mm}$

Number of contacts

8

Modu-
lar

Features

- Single module with standard shielded RJ45 plug and jack
- The RJ45 inserts are protected by a reliable plastic insulator
- 360° shielded contact
- Field assembly without tools possible by means of *HARAX®* rapid termination in IDC technology
- Gigalink: Field assembly by means of piercing contacts (Assembly tool 09 45 800 0520)
- Suitable for termination of massive and flexible wires
- Gigalink: Suitable for termination of flexible wires

Technical characteristics

Number of contacts	8
Insulation resistance	$>10^{10} \Omega$
Limiting temperature	-40 ... +70 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 1.05 \text{ mm}$, $\leq 1.5 \text{ mm}$
Transmission characteristics	Cat. 6A, Class E _A up to 500 MHz, Cat. 6, Class E up to 250 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 10 Gbit/s
Material (insert)	Polycarbonate (PC), Polyamide (PA)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984
IEC 60603-7
DIN EN 45545-2 R22: HL1, HL2, HL3
DIN EN 45545-2 R23: HL1, HL2, HL3
UL 1977 ECBT2.E102079
CSA-C22.2 No. 182.3 ECBT8.E102079
DNV GL

Identification

Han-Modular®,
Han® RJ45 module,
Single module



Data connectors,
RJ Industrial RJ45 Gigalink connector set,
Piercing termination,
Fully shielded, 360° shielding contact,
Cat. 6A



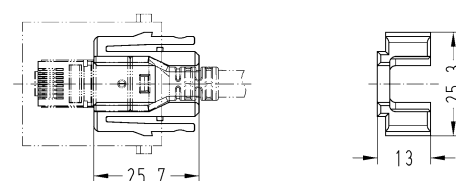
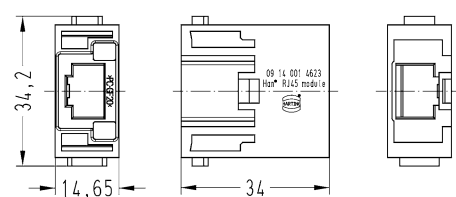
AWG 28 ... AWG 24

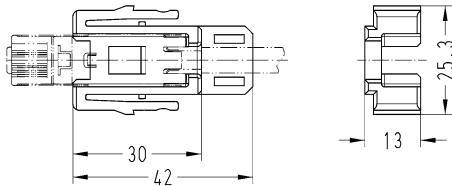
Part number Male

09 14 001 4623

09 45 400 1520

Drawing (dimensions in mm)



Identification		Part number Male	Drawing (dimensions in mm)
Data connectors, RJ Industrial RJ45 connector set, Shielded, Cat. 6 	AWG 27 ... AWG 22	09 45 400 1560	 Wire outer diameter ≤ 1.5 mm

Modu-
lar

Modular

Features

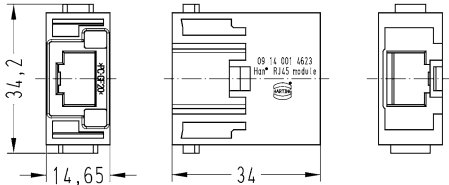
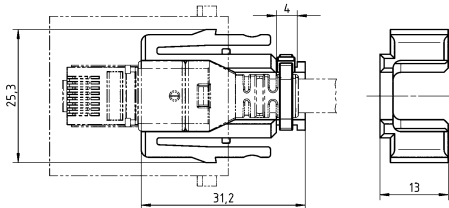
- Single module with standard shielded RJ45 plug and jack
- The RJ45 inserts are protected by a reliable plastic insulator
- Patch cables are assembled/removed without tools

Technical characteristics

Insulation resistance	>10 ¹⁰ Ω
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL

Identification	Part number Male	Drawing (dimensions in mm)
Han-Modular®, Han® RJ45 module, Single module 	09 14 001 4623	
Han-Modular®, Han® RJ45 module, Adapter, for patch cable 	09 14 000 9966	

4x 2 Twisted Pair
HARTING RJ Industrial®
HARTING RJ Industrial®



Modu-
lar

Features

- Locking lever protection for RJ45 connector latch
- Very short plug design in combination with robust bend protection
- Fully EMC screened (aluminium-clad foil and braid)

Technical characteristics

Number of cores	8
Core structure	4x 2 Twisted Pair
Connector 1	HARTING RJ Industrial®
Connector 2	HARTING RJ Industrial®
Limiting temperature	-30 ... +75 °C unmoved, -5 ... +50 °C moved
Degree of protection acc. to IEC 60529	IP20
Transmission characteristics	Cat. 5e, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s
Material (cable)	PUR (polyurethane)
Colour (cable)	Yellow
RoHS	compliant

Specifications and approvals

IEC 11801
IEC 24702
IEC 61935-2



Details

Other cable lengths on request!

Identification	Cable length	Part number	Drawing (dimensions in mm)
RJ45, Copper cable (round), Halogen-free, Oil resistant, Cable assemblies, Pre-assembled on both sides, IP20	0.2 m	09 47 474 7001	
	0.3 m	09 47 474 7002	
	0.4 m	09 47 474 7003	
	0.5 m	09 47 474 7004	
	0.6 m	09 47 474 7005	
	0.7 m	09 47 474 7006	
	0.8 m	09 47 474 7007	
	0.9 m	09 47 474 7008	
	1 m	09 47 474 7009	
	1.5 m	09 47 474 7010	
	2 m	09 47 474 7011	
	2.5 m	09 47 474 7012	
	3 m	09 47 474 7013	
	3.5 m	09 47 474 7024	
	4 m	09 47 474 7014	
	5 m	09 47 474 7015	
	6 m	09 47 474 7016	
	7 m	09 47 474 7017	
	7.5 m	09 47 474 7018	
	8 m	09 47 474 7019	
	9 m	09 47 474 7020	
	10 m	09 47 474 7021	
	12 m	09 47 474 7035	
	15 m	09 47 474 7022	
	20 m	09 47 474 7023	
	25 m	09 47 474 7025	
	30 m	09 47 474 7027	
	35 m	09 47 474 7026	
	40 m	09 47 474 7028	
	50 m	09 47 474 7029	

4x 2 Twisted Pair
HARTING RJ Industrial®
HARTING RJ Industrial®



Modu-
lar

Features

- Locking lever protection for RJ45 connector latch
- Very short plug design in combination with robust bend protection
- Fully EMC screened (aluminium-clad foil and braid)

Technical characteristics

Number of cores	8
Core structure	4x 2 Twisted Pair
Connector 1	HARTING RJ Industrial®
Connector 2	HARTING RJ Industrial®
Limiting temperature	-30 ... +75 °C unmoved, -5 ... +50 °C moved
Degree of protection acc. to IEC 60529	IP20
Transmission characteristics	Cat. 6A, Class E _A up to 500 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, 10 Gbit/s
Material (cable)	PUR (polyurethane)
Colour (cable)	Yellow
RoHS	compliant

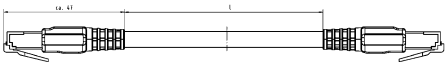
Specifications and approvals

IEC 11801
IEC 61156-6
IEC 24702



Details

Other cable lengths on request!

Identification	Cable length	Part number	Drawing (dimensions in mm)
RJ45, Copper cable (round), Wiring 1:1, Halogen-free, Oil resistant, Cable assemblies, Pre-assembled on both sides, IP20	0.2 m	09 47 474 7101	
	0.3 m	09 47 474 7102	
	0.4 m	09 47 474 7103	
	0.5 m	09 47 474 7104	
	0.6 m	09 47 474 7105	
	0.7 m	09 47 474 7106	
	0.8 m	09 47 474 7107	
	0.9 m	09 47 474 7108	
	1 m	09 47 474 7109	
	1.5 m	09 47 474 7110	
	2 m	09 47 474 7111	
	2.5 m	09 47 474 7112	
	3 m	09 47 474 7113	
	4 m	09 47 474 7114	
	5 m	09 47 474 7115	
	6 m	09 47 474 7116	
	7 m	09 47 474 7117	
	7.5 m	09 47 474 7118	
	8 m	09 47 474 7119	
	9 m	09 47 474 7120	
	10 m	09 47 474 7121	
	15 m	09 47 474 7122	
	16 m	09 47 474 7124	
	20 m	09 47 474 7123	
	25 m	09 47 474 7126	
	30 m	09 47 474 7125	
	100 m	09 47 474 7199	

Features

- Shielding bus separate from housing potential
- Suitable for the transmission of sensitive signals (e.g. bus signals)
- Usable for Gigabit Ethernet cat. 6A
- Suitable for PoE++

Technical characteristics

Number of contacts	8
Additional contacts	+ shielding
Rated current	5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage	50 V AC, 60 V DC
Rated voltage acc. to UL	30 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Contact resistance, shielding	$\leq 100 \text{ m}\Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Transmission characteristics	Cat. 6A, Class E _A up to 500 MHz, Cat. 7A, Class F _A up to 1,000 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 10 Gbit/s
Material (insert)	Polycarbonate (PC)
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

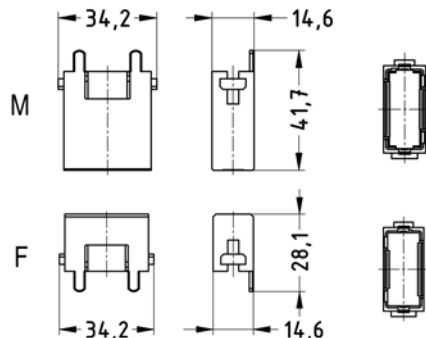
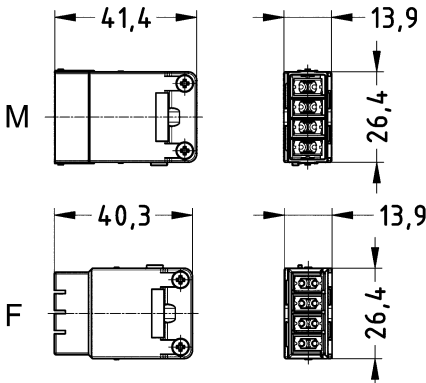
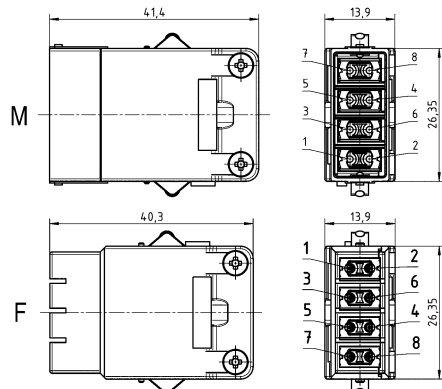
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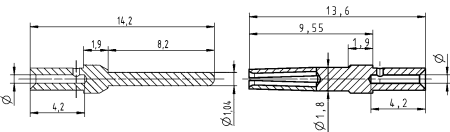
Number of contacts

8

5 A 50 V 0.8 kV 3
+ shielding

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Adapter module, Han® Gigabit module, Han® Shielded module, Han® Megabit module 		09 14 001 3011	09 14 001 3111	
Han® Gigabit insert, Crimp termination, Cat. 6A  Please order crimp contacts separately. Please order adapter module separately. Please order cable clamp or crimp flange separately.	0.09 ... 0.52	09 14 008 3011	09 14 008 3111	 Cable outer diameter ≤ 14 mm
Han® Gigabit insert, Crimp termination, Cat. 6A  With additional shield connection to the hinged frame Please order crimp contacts separately. Please order adapter module separately.	0.09 ... 0.52	09 14 008 3012	09 14 008 3112	 Cable outer diameter ≤ 14 mm

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
D-Sub, Standard, Crimp contact	0.09 ... 0.25 0.13 ... 0.33 0.25 ... 0.52	09 67 000 7576 09 67 000 5576 09 67 000 8576	09 67 000 7476 09 67 000 5476 09 67 000 8476	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.09-0.25 mm²</td><td>0.64 mm</td><td>4 mm</td></tr><tr><td>0.13-0.33 mm²</td><td>0.88 mm</td><td>4 mm</td></tr><tr><td>0.25-0.52 mm²</td><td>1.13 mm</td><td>4 mm</td></tr><tr><td>0.33-0.82 mm²</td><td>1.34 mm</td><td>4 mm</td></tr></table> for stranded wire according IEC 60228 Class 5	Conductor cross-section	ø	Stripping length	0.09-0.25 mm²	0.64 mm	4 mm	0.13-0.33 mm²	0.88 mm	4 mm	0.25-0.52 mm²	1.13 mm	4 mm	0.33-0.82 mm²	1.34 mm	4 mm
Conductor cross-section	ø	Stripping length																	
0.09-0.25 mm²	0.64 mm	4 mm																	
0.13-0.33 mm²	0.88 mm	4 mm																	
0.25-0.52 mm²	1.13 mm	4 mm																	
0.33-0.82 mm²	1.34 mm	4 mm																	

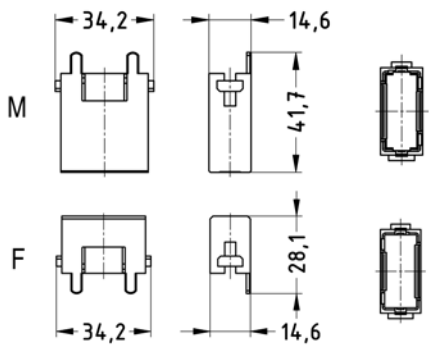
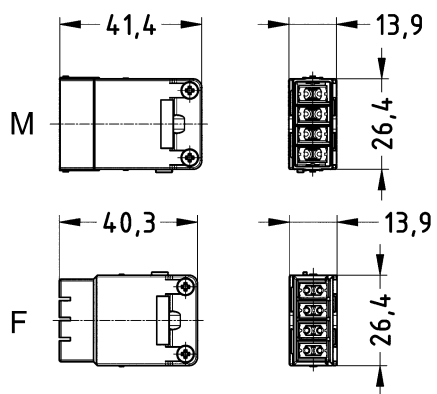
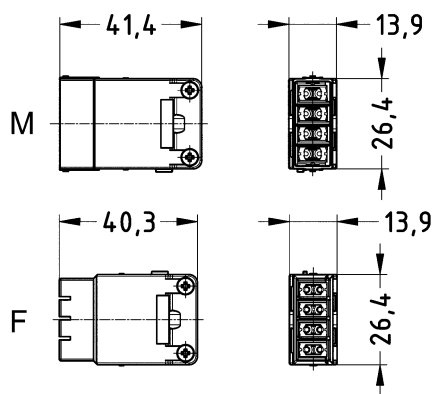
Modu-
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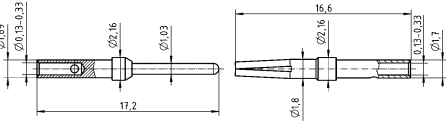
Number of contacts

8

5 A 50 V 0.8 kV 3
+ shielding

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Adapter module, Han® Gigabit module, Han® Shielded module, Han® Megabit module 		09 14 001 3011	09 14 001 3111	
Han® Gigabit insert, Crimp termination, Cat. 7_A  Please order crimp contacts separately. Please order adapter module separately.	0.09 ... 0.52	09 14 008 3031	09 14 008 3131	 Cable outer diameter ≤ 14 mm
Han® Gigabit insert, Crimp termination, Cat. 7_A  With additional shield connection to the hinged frame Please order crimp contacts separately. Please order adapter module separately.	0.09 ... 0.52	09 14 008 3032	09 14 008 3132	 Cable outer diameter ≤ 14 mm

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
D-Sub, Crimp contact, Cat. 7 _A 	0.13 ... 0.33	09 93 000 5576	09 93 000 5476	

Modu-
lar

Features

- Shielding bus separate from housing potential
- Suitable for the transmission of sensitive signals (e.g. bus signals)

Technical characteristics

Number of contacts	20
Additional contacts	+ shielding
Rated current	4 A
Rated voltage	32 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Contact resistance, shielding	$\leq 100 \text{ m}\Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Liquid crystal polymer (LCP), Polycarbonate (PC)
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

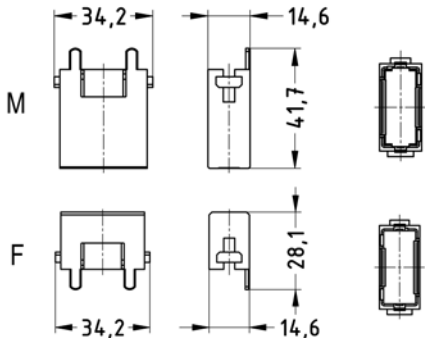
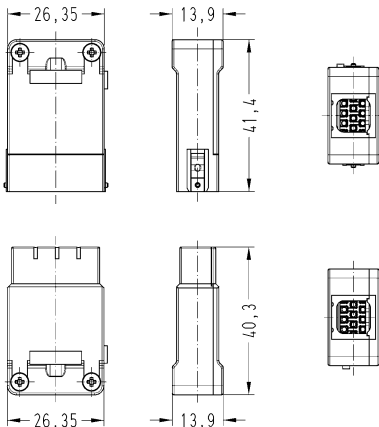
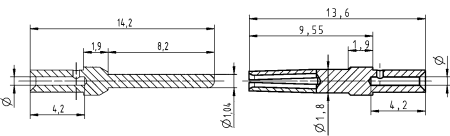
EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Number of contacts

20

4 A 32 V 0.8 kV 3
+ shielding

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular®, Adapter module, Han® Gigabit module, Han® Shielded module, Han® Megabit module 		09 14 001 3011	09 14 001 3111																
Han® Shielded Module insert, Crimp termination  Please order crimp contacts separately.	0.09 ... 0.52	09 14 020 3013	09 14 020 3113																
D-Sub, Standard, Crimp contact 	0.09 ... 0.25 0.13 ... 0.33 0.25 ... 0.52	09 67 000 7576 09 67 000 5576 09 67 000 8576	09 67 000 7476 09 67 000 5476 09 67 000 8476	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.09-0.25 mm²</td><td>0.64 mm</td><td>4 mm</td></tr><tr><td>0.13-0.33 mm²</td><td>0.88 mm</td><td>4 mm</td></tr><tr><td>0.25-0.52 mm²</td><td>1.13 mm</td><td>4 mm</td></tr><tr><td>0.33-0.82 mm²</td><td>1.34 mm</td><td>4 mm</td></tr></table> for stranded wire according IEC 60228 Class 5	Conductor cross-section	ø	Stripping length	0.09-0.25 mm²	0.64 mm	4 mm	0.13-0.33 mm²	0.88 mm	4 mm	0.25-0.52 mm²	1.13 mm	4 mm	0.33-0.82 mm²	1.34 mm	4 mm
Conductor cross-section	ø	Stripping length																	
0.09-0.25 mm²	0.64 mm	4 mm																	
0.13-0.33 mm²	0.88 mm	4 mm																	
0.25-0.52 mm²	1.13 mm	4 mm																	
0.33-0.82 mm²	1.34 mm	4 mm																	

Features

- Transmission of shielding separately from the hood's ground
- Suitable for the transmission of sensitive signals (e.g. bus signals)
- Higher density of crimping contacts

Technical characteristics

Number of contacts	27
Additional contacts	+ shielding
Rated current	2 A
Rated voltage	16 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance, shielding	$\leq 100 \text{ m}\Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Liquid crystal polymer (LCP), Polycarbonate (PC)
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Modu-
lar

Features

- Shielding bus separate from housing potential
- Usable for Megabit Ethernet cat. 5e
- Suitable for Han® B, Han® M, Han® EMC and Han® HPR hoods/housings, high construction

Technical characteristics

Number of contacts	8
Additional contacts	+ shielding
Rated current	10 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	>10 ¹⁰ Ω
Contact resistance	≤3 mΩ
Contact resistance, shielding	≤100 mΩ
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Transmission characteristics	Cat. 5, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s
Material (insert)	Polycarbonate (PC)
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Not suitable for hoods/housings low construction as well as Han-Modular® Eco, Han-Modular® Compact and Han-Modular® Twin.

Crimping tools see chapter Han 90

Remarks on the crimp technique

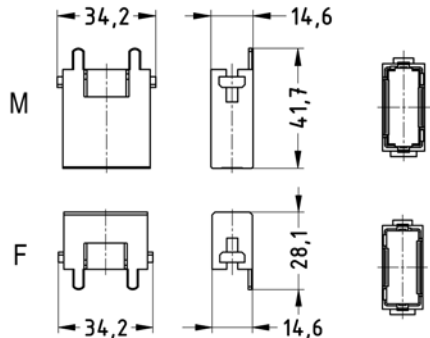
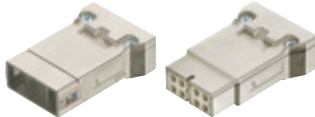
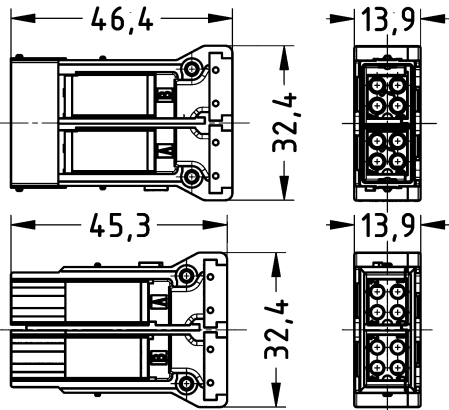
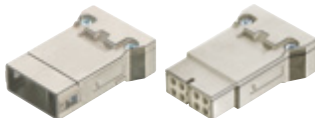
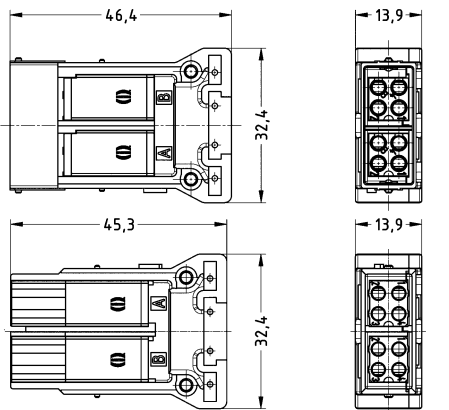
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

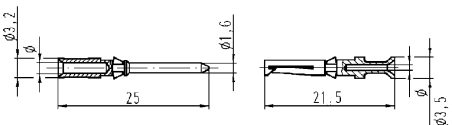
8

10 A 50 V 0.8 kV 3
+ shielding

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Adapter module, Han® Gigabit module, Han® Shielded module, Han® Megabit module 		09 14 001 3011	09 14 001 3111	
Han® Megabit insert, 2x 4 contacts, 2 cable entries, Crimp termination  Please order crimp contacts separately. Please order adapter module separately.	0.14 ... 2.5	09 14 008 3016	09 14 008 3116	
Han® Megabit insert, 2x 4 contacts, One entry, Crimp termination  Please order crimp contacts separately. Please order adapter module separately.	0.14 ... 2.5	09 14 008 3021	09 14 008 3121	

Modu-
lar

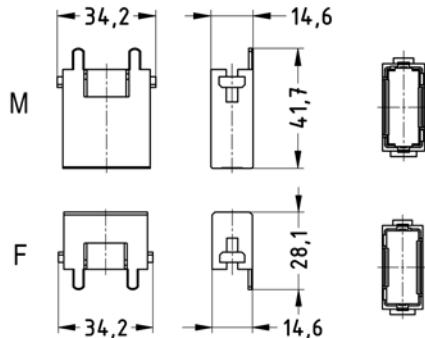
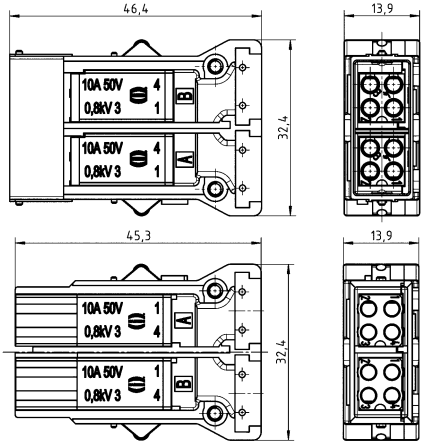
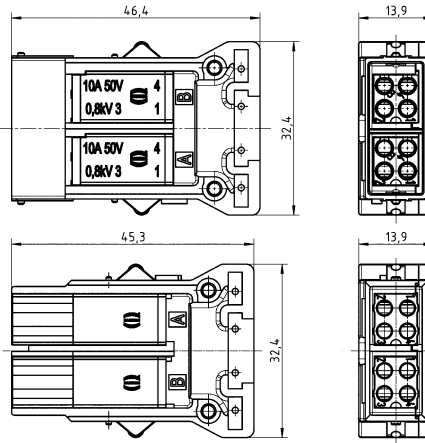
Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																										
		Male	Female																											
Han D®, Crimp contact, Contact surface: Gold plated	0.14 ... 0.37	09 15 000 6124	09 15 000 6224																											
	0.5	09 15 000 6123	09 15 000 6223																											
	0.75	09 15 000 6125	09 15 000 6225																											
	1	09 15 000 6122	09 15 000 6222																											
	1.5	09 15 000 6121	09 15 000 6221																											
	2.5	09 15 000 6126	09 15 000 6226																											
																														
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Conductor cross-section	Ø	Stripping length																												
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1.5 mm²	AWG 16	1.75 mm	8 mm																											
2.5 mm²	AWG 14	2.25 mm	6 mm																											

Number of contacts

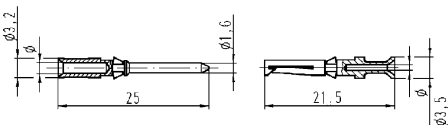
8

10 A 50 V 0.8 kV 3
+ shielding

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Adapter module, Han® Gigabit module, Han® Shielded module, Han® Megabit module 		09 14 001 3011	09 14 001 3111	
Han® Megabit insert, 2x 4 contacts, 2 cable entries, Crimp termination  With additional shield connection to the hinged frame Please order crimp contacts separately. Please order adapter module separately.	0.14 ... 2.5	09 14 008 3017	09 14 008 3117	
Han® Megabit insert, 2x 4 contacts, One entry, Crimp termination  With additional shield connection to the hinged frame Please order crimp contacts separately. Please order adapter module separately.	0.14 ... 2.5	09 14 008 3022	09 14 008 3122	

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han D®, Crimp contact, Contact surface: Gold plated	0.14 ... 0.37	09 15 000 6124	09 15 000 6224																						
	0.5	09 15 000 6123	09 15 000 6223																						
	0.75	09 15 000 6125	09 15 000 6225																						
	1	09 15 000 6122	09 15 000 6222																						
	1.5	09 15 000 6121	09 15 000 6221																						
	2.5	09 15 000 6126	09 15 000 6226																						
				<table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	ø	Stripping length																							
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1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							

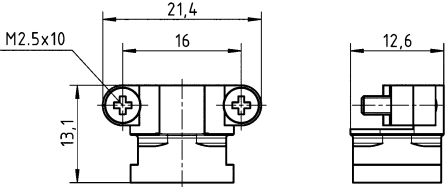
Technical characteristics

Material (accessories)
RoHS

Zinc die-cast
compliant, compliant with
exemption

Details

09 14 000 9983, 61 03 000 0143 and 61 03 000 0148 only for
modules with one cable entry!

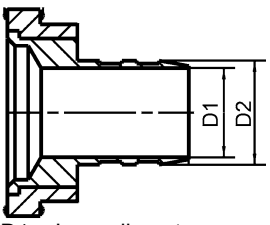
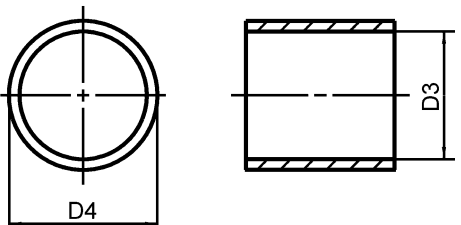
Identification	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Cable clamp 	6 ... 10	09 14 000 9983	
Cable clamp, D-Sub 1 ... 4 	5 ... 7 7 ... 10 9 ... 12 11 ... 14	61 03 000 0141 61 03 000 0044 61 03 000 0143 61 03 000 0148	

Technical characteristics

RoHS compliant

Details

HARTING offers to test and define the best crimp flange and ferrule combination for customer specific cables.

Identification	Inner diameter	Outer diameter	Part number	Drawing (dimensions in mm)
D-Sub, Crimp flange, D-Sub 1 ... 4	3 mm	4 mm	61 03 000 0062	 D1 = Inner diameter D2 = Outer diameter
	3.5 mm	4.5 mm	61 03 000 0063	
	4 mm	5 mm	61 03 000 0064	
	4.5 mm	5.5 mm	61 03 000 0065	
	5 mm	6 mm	61 03 000 0066	
	5.5 mm	6.5 mm	61 03 000 0166	
	6 mm	7 mm	61 03 000 0067	
	6.5 mm	7.5 mm	61 03 000 0068	
	7 mm	8 mm	61 03 000 0069	
	7.5 mm	8.5 mm	61 03 000 0070	
	8 mm	9 mm	61 03 000 0071	
	8.5 mm	9.5 mm	61 03 000 0165	
	9 mm	10 mm	61 03 000 0072	
D-Sub, Crimp ferrule	5 mm	6 mm	61 03 000 0045	 D4 = Outer diameter D3 = Inner diameter
	5.5 mm	6.5 mm	61 03 000 0046	
	6 mm	7 mm	61 03 000 0047	
	6.5 mm	7.5 mm	61 03 000 0048	
	7 mm	8 mm	61 03 000 0049	
	7.5 mm	8.5 mm	61 03 000 0050	
	8 mm	9 mm	61 03 000 0051	
	8.5 mm	9.5 mm	61 03 000 0052	
	9 mm	10 mm	61 03 000 0053	
	9.5 mm	10.5 mm	61 03 000 0054	
	10 mm	11 mm	61 03 000 0055	
	10.5 mm	11.5 mm	61 03 000 0056	
	11 mm	12 mm	61 03 000 0057	
	11.5 mm	12.5 mm	61 03 000 0058	
	12 mm	13 mm	61 03 000 0142	
	12.5 mm	13.5 mm	61 03 000 0059	
	13 mm	14 mm	61 03 000 0127	
	13.7 mm	15 mm	61 03 000 0060	
	14 mm	15 mm	61 03 000 0061	

4

Modu-
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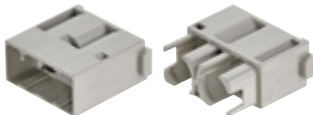
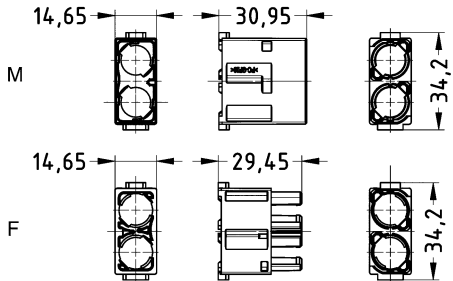
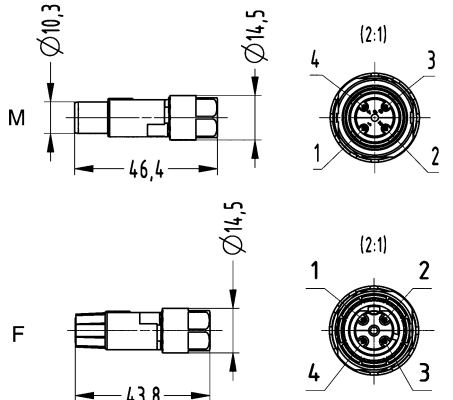
Technical characteristics

Number of contacts	4
Additional contacts	+ shielding
Rated current	4 A
Rated voltage	32 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	>10 ⁸ Ω
Contact resistance	≤10 mΩ
Contact resistance, shielding	≤100 mΩ
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Wire outer diameter	≤2.3 mm
Transmission characteristics	Cat. 5, Class D up to 100 MHz

Material (insert)	Liquid crystal polymer (LCP), Polycarbonate (PC)
Material (shielding)	Copper alloy, nickel plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984

Identification	Conductor cross-section (mm ²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® M12 module 		09 14 002 3061	09 14 002 3161	
Han-Modular®, D-coding, Crimp termination  Please order crimp contacts separately.	0.13 ... 0.82	09 14 881 1405	09 14 881 2405	 Cable diameter 5.7 ... 8.8 mm



Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
D-Sub, Standard, Crimp contact	0.13 ... 0.33	09 67 000 5576	09 67 000 5476	<table><tr><td>Conductor cross-section</td><td>ø</td><td>Stripping length</td></tr><tr><td>0.09-0.25 mm²</td><td>0.64 mm</td><td>4 mm</td></tr><tr><td>0.13-0.33 mm²</td><td>0.88 mm</td><td>4 mm</td></tr><tr><td>0.25-0.52 mm²</td><td>1.13 mm</td><td>4 mm</td></tr><tr><td>0.33-0.82 mm²</td><td>1.34 mm</td><td>4 mm</td></tr></table> for stranded wire according IEC 60228 Class 5	Conductor cross-section	ø	Stripping length	0.09-0.25 mm²	0.64 mm	4 mm	0.13-0.33 mm²	0.88 mm	4 mm	0.25-0.52 mm²	1.13 mm	4 mm	0.33-0.82 mm²	1.34 mm	4 mm
	Conductor cross-section	ø	Stripping length																
	0.09-0.25 mm²	0.64 mm	4 mm																
	0.13-0.33 mm²	0.88 mm	4 mm																
0.25-0.52 mm²	1.13 mm	4 mm																	
0.33-0.82 mm²	1.34 mm	4 mm																	
	0.25 ... 0.52	09 67 000 8576	09 67 000 8476																
	0.33 ... 0.82	09 67 000 3576	09 67 000 3476																

8

Modu-
lar

Features

- Shielding bus separate from housing potential
- Suitable for the transmission of sensitive signals (e.g. bus signals)
- The four pole Han® Quintax contact is suitable for Ethernet cat. 5 and PROFIBUS when diagonally wiring of the data pairs.

Technical characteristics

Number of contacts	4
Additional contacts	+ shielding
Rated current	10 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Contact resistance, shielding	$\leq 100 \text{ m}\Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Metal
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant

Specifications and approvals

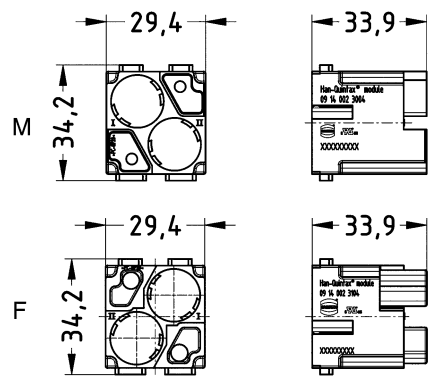
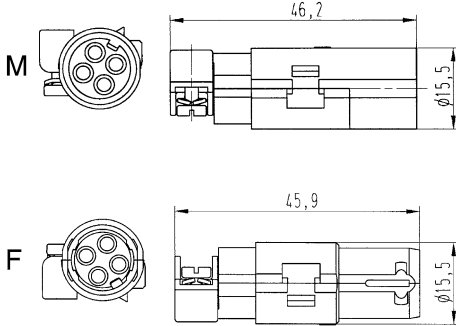
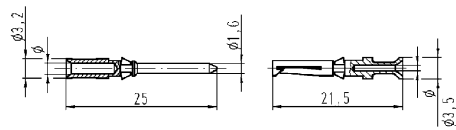
EN 60664-1
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UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

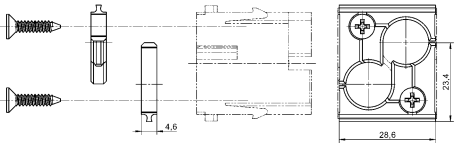
Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Modular®, Han-Quintax® module, Crimp termination		09 14 002 3004	09 14 002 3104																						
Han-Quintax®, for Han D® crimp contacts	0.14 ... 2.5	09 15 004 3013	09 15 004 3113	 Cable diameter 3 ... 9.5 mm																					
Han D®, Crimp contact, Contact surface: Gold plated	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	 <table><thead><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr></thead><tbody><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></tbody></table>	Conductor cross-section	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
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1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Quintax®, Adapter, Metal  Optional		09 14 000 9915	09 14 000 9915	

Modu-
lar



Technical characteristics

Number of contacts	8
Additional contacts	+ shielding
Rated current	5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Contact resistance, shielding	$\leq 100 \text{ m}\Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy

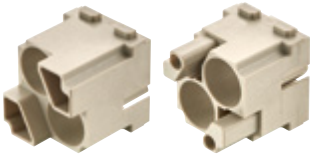
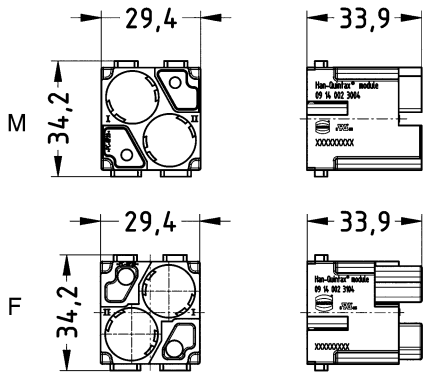
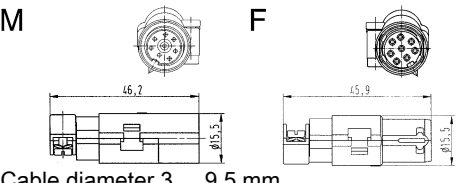
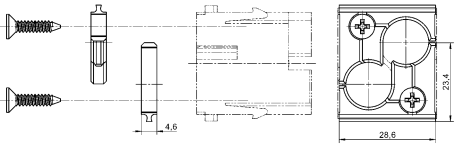
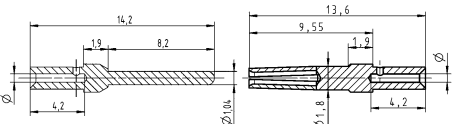
Technical characteristics

Material (accessories)	Metal
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL
UL 1977 ECBT2.E102079
CSA-C22.2 No. 182.3 ECBT8.E102079

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular®, Han-Quintax® module, Crimp termination 		09 14 002 3004	09 14 002 3104																
Han-Quintax® High Density, for Han® D-Sub crimp contacts  Please order crimp contacts separately.	0.09 ... 0.52	09 15 008 3013	09 15 008 3113	 Cable diameter 3 ... 9.5 mm															
Han-Quintax®, Adapter, Metal 		09 14 000 9915	09 14 000 9915																
Optional D-Sub, Standard, Crimp contact 	0.09 ... 0.25 0.13 ... 0.33 0.25 ... 0.52	09 67 000 7576 09 67 000 5576 09 67 000 8576	09 67 000 7476 09 67 000 5476 09 67 000 8476	 <table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.09-0.25 mm²</td><td>0.64 mm</td><td>4 mm</td></tr><tr><td>0.13-0.33 mm²</td><td>0.88 mm</td><td>4 mm</td></tr><tr><td>0.25-0.52 mm²</td><td>1.13 mm</td><td>4 mm</td></tr><tr><td>0.33-0.82 mm²</td><td>1.34 mm</td><td>4 mm</td></tr></table> for stranded wire according IEC 60228 Class 5	Conductor cross-section	ø	Stripping length	0.09-0.25 mm²	0.64 mm	4 mm	0.13-0.33 mm²	0.88 mm	4 mm	0.25-0.52 mm²	1.13 mm	4 mm	0.33-0.82 mm²	1.34 mm	4 mm
Conductor cross-section	ø	Stripping length																	
0.09-0.25 mm²	0.64 mm	4 mm																	
0.13-0.33 mm²	0.88 mm	4 mm																	
0.25-0.52 mm²	1.13 mm	4 mm																	
0.33-0.82 mm²	1.34 mm	4 mm																	

Technical characteristics

Number of contacts	1
Additional contacts	+ shielding
Rated current	10 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Contact resistance, shielding	$\leq 100 \text{ m}\Omega$
Impedance	75 Ω
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0

Technical characteristics

RoHS compliant, compliant with exemption

Specifications and approvals

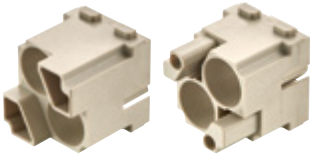
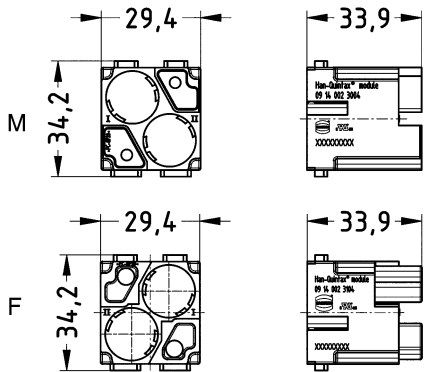
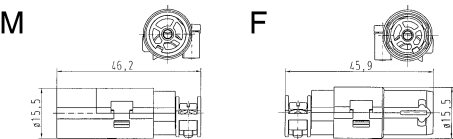
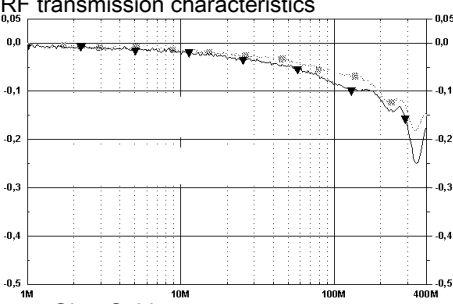
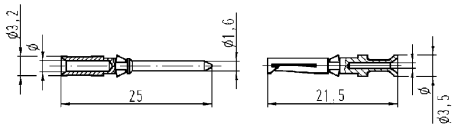
EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Modular®, Han-Quintax® module, Crimp termination 		09 14 002 3004	09 14 002 3104																						
Han® D Coax, Crimp termination, for Han D® crimp contacts  Please order crimp contacts separately.	0.14 ... 2.5	09 15 001 3013	09 15 001 3113	 RF transmission characteristics  ■ 75 Ohm Cable ▼ 75 Ohm Cable with Han D® Coax 																					
Han D®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	<table><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Conductor cross-section	ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
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1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							

Technical characteristics

Modu- lar	Number of contacts	1
	Additional contacts	+ shielding
	Rated current	16 A
	Rated voltage	50 V
	Rated impulse voltage	0.8 kV
	Pollution degree	3
	Insulation resistance	$>10^{10} \Omega$
	Contact resistance	$\leq 1 \text{ m}\Omega$
	Contact resistance, shielding	$\leq 100 \text{ m}\Omega$
	Impedance	50 Ω
	Limiting temperature	-40 ... +85 °C
	Mating cycles	≥ 500
	Material (insert)	Polycarbonate (PC)
	Material (shielding)	Zinc die-cast, nickel-plated

Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0

Technical characteristics

RoHS	compliant, compliant with exemption
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Specifications and approvals

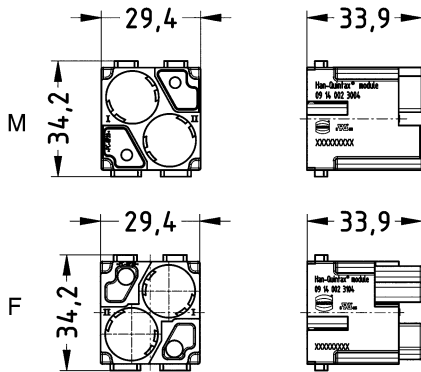
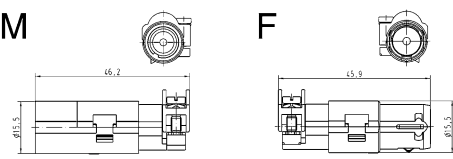
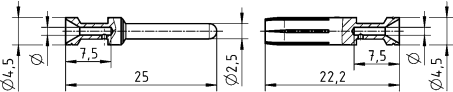
EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																								
		Male	Female																									
Han-Modular®, Han-Quintax® module, Crimp termination		09 14 002 3004	09 14 002 3104																									
Han® E Coax, Crimp termination, for Han E® crimp contacts	0.14 ... 4	09 15 001 3023	09 15 001 3123	 <table border="1"><thead><tr><th>Han E® Coax with RG 213 cable (2.5 mm²)</th><th>200 MHz</th><th>500 MHz</th><th>1.0 GHz</th><th>1.2 GHz</th><th>1.5 GHz</th><th>2.0 GHz</th><th>2.5 GHz</th></tr></thead><tbody><tr><td>Return loss [dB]</td><td>23.8</td><td>21.1</td><td>>18.7</td><td>>17.7</td><td>>16.4</td><td>>14.1</td><td>>12.0</td></tr><tr><td>Attenuation [dB]</td><td>0.07</td><td>0.11</td><td>0.17</td><td>0.2</td><td><0.23</td><td><0.53</td><td><2.0</td></tr></tbody></table>	Han E® Coax with RG 213 cable (2.5 mm²)	200 MHz	500 MHz	1.0 GHz	1.2 GHz	1.5 GHz	2.0 GHz	2.5 GHz	Return loss [dB]	23.8	21.1	>18.7	>17.7	>16.4	>14.1	>12.0	Attenuation [dB]	0.07	0.11	0.17	0.2	<0.23	<0.53	<2.0
Han E® Coax with RG 213 cable (2.5 mm²)	200 MHz	500 MHz	1.0 GHz	1.2 GHz	1.5 GHz	2.0 GHz	2.5 GHz																					
Return loss [dB]	23.8	21.1	>18.7	>17.7	>16.4	>14.1	>12.0																					
Attenuation [dB]	0.07	0.11	0.17	0.2	<0.23	<0.53	<2.0																					
Han E®, Crimp contact, Contact surface: Gold plated	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 4	09 33 000 6117 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	09 33 000 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221	 <table border="1"><thead><tr><th>Conductor cross-section</th><th>Identification</th></tr></thead><tbody><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></tbody></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove						
Conductor cross-section	Identification																											
0.14-0.37 mm² AWG 26-22	no groove																											
0.5 mm² AWG 20	no groove																											
0.75 mm² AWG 18	1 groove*																											
1 mm² AWG 18	1 groove																											
1.5 mm² AWG 16	2 groove																											
2.5 mm² AWG 14	3 groove																											
3 mm² AWG 12	wide groove																											
4 mm² AWG 12	no groove																											

Number of contacts

4

1.5 A 50 V

Modu-
lar

Features

- Suitable for FOC and coaxial contacts acc. to EN 41626

Technical characteristics

Number of contacts	4
Rated current	1.5 A
Rated voltage	50 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Impedance	50 Ω , 75 Ω
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

ATTENTION when using coaxial contacts:

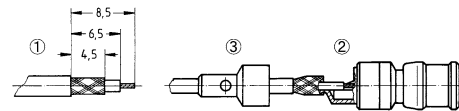
Male module 09 14 004 4501 with contacts 09 14 000 62xx or 09 69 28x 5xxx

Female module 09 14 004 4513 with contacts 09 14 000 61xx or 09 69 18x 5xxx

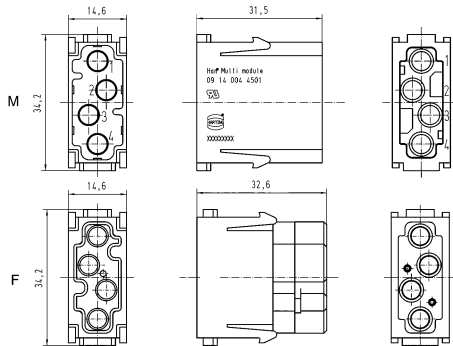
When removing the contacts, the two-piece module can be opened using a 7mm screwdriver. This destroys the module.

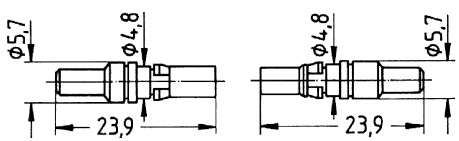
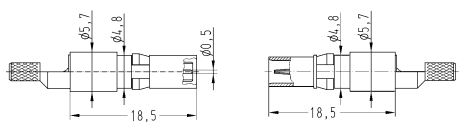
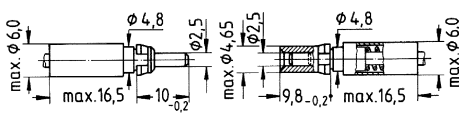
ATTENTION! Guide pins and bushes are prescribed (see chapter Han 80).

Assembly instructions for coaxial contact



- ① Stripping length
- ② Solder termination (during soldering max. +300 °C for 2 s)
- ③ Crimp ferrule

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® Multi module  Please order contacts separately.	09 14 004 4501	09 14 004 4512	 Contact arrangement (view from termination side)

Identification	Part number		Drawing (dimensions in mm)																																																					
	Male	Female																																																						
DIN 41626, Coaxial contact, Solder/crimp termination, for cables RG 174 U, 188 AU, 316 U, 50 Ohm, Contact surface: Gold plated	09 14 000 6211	09 14 000 6111																																																						
DIN 41626, Coaxial contact, Solder/crimp termination, for cables RG 179 BU, 187 AU, 75 Ohm, Contact surface: Gold plated	09 14 000 6221	09 14 000 6121	 <table border="1" data-bbox="989 723 1450 920"><thead><tr><th rowspan="2">Wires</th><th>Shell ∅ mm</th><th>Internal wire ∅ mm</th><th colspan="3">Dämpfung db/100 m bei</th></tr><tr><th></th><th></th><th>100MHz</th><th>200MHz</th><th>800MHz</th></tr></thead><tbody><tr><td>50 Ω</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>RG 174 / U</td><td>2.5</td><td>0.48</td><td></td><td></td><td>84</td></tr><tr><td>RG 188 A / U</td><td>2.6</td><td>0.54</td><td>29</td><td>40</td><td></td></tr><tr><td>RG 316 / U</td><td>2.5</td><td>0.54</td><td></td><td>40</td><td></td></tr><tr><td>75 Ω</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>RG 179 B / U</td><td>2.55</td><td>0.3</td><td></td><td>41</td><td></td></tr><tr><td>RG 187 A / U</td><td>2.7</td><td>0.3</td><td></td><td>41</td><td></td></tr></tbody></table>	Wires	Shell ∅ mm	Internal wire ∅ mm	Dämpfung db/100 m bei					100MHz	200MHz	800MHz	50 Ω						RG 174 / U	2.5	0.48			84	RG 188 A / U	2.6	0.54	29	40		RG 316 / U	2.5	0.54		40		75 Ω						RG 179 B / U	2.55	0.3		41		RG 187 A / U	2.7	0.3		41	
Wires	Shell ∅ mm	Internal wire ∅ mm	Dämpfung db/100 m bei																																																					
			100MHz	200MHz	800MHz																																																			
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RG 187 A / U	2.7	0.3		41																																																				
DIN 41626, FO contact, for 1 mm plastic fibre	20 10 001 4211	20 10 001 4221																																																						
DIN 41626, FO contact, for SI fibre (HCS®) 200/230 µm	20 10 230 4211	20 10 230 4221																																																						
DIN 41626, FO contact, for GI fibre 50/125 µm, for ceramic ferrule 62.5/125 µm	20 10 125 4212	20 10 125 4222																																																						

Number of contacts

4

1.5 A 50 V

Modu-
lar

Features

- Suitable for FOC and coaxial contacts acc. to D-Sub

Technical characteristics

Number of contacts	4
Rated current	1.5 A
Rated voltage	50 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Impedance	50 Ω , 75 Ω
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (locking)	Copper alloy
Material (contacts)	Copper alloy, PBFE / PBTP / PI
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

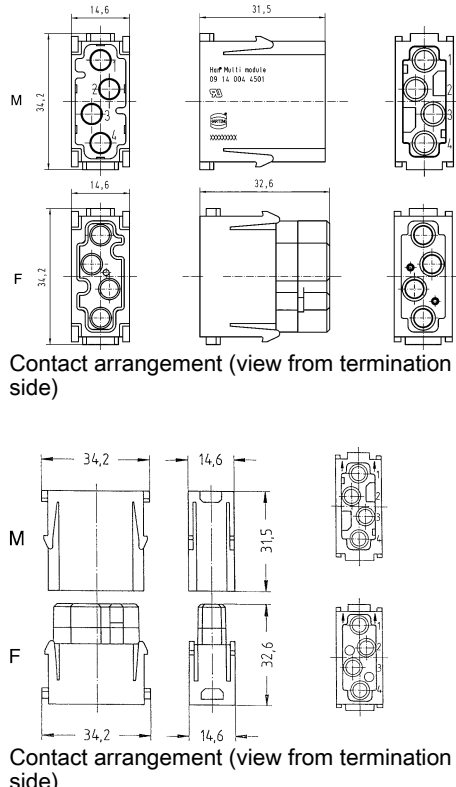
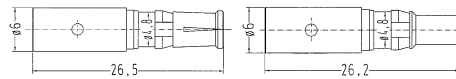
ATTENTION when using coaxial contacts:

Male module 09 14 004 4501 with contacts 09 14 000 62xx or 09 69 28x 5xxx

Female module 09 14 004 4513 with contacts 09 14 000 61xx or 09 69 18x 5xxx

When removing the contacts, the two-piece module can be opened using a 7mm screwdriver. This destroys the module.

ATTENTION! Guide pins and bushes are prescribed (see chapter Han 80).

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® Multi module  Please order contacts separately.	09 14 004 4501	09 14 004 4513	 Contact arrangement (view from termination side) Contact arrangement (view from termination side)
D-Sub, Coaxial contact, Solder / solder termination, for cables RG 58, 50 Ohm, Contact surface: Gold plated 	09 14 000 6215	09 14 000 6115	
D-Sub, Mixed, Coaxial contact, Crimp/crimp termination, Straight, for cables RG 174 U, 188 AU, 316 U, 50 Ohm, Contact surface: Gold plated 	09 69 282 5140	09 69 182 5140	
D-Sub, Mixed, Coaxial contact, Crimp/crimp termination, Straight, for cables RG 179 BU, 187 AU, 75 Ohm, Contact surface: Gold plated 	09 69 282 5230	09 69 182 5230	

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	

D-Sub,
Mixed,
Coaxial contact,
Solder/crimp termination,
Straight,
for cables RG 174 U, 188 AU, 316 U,
50 Ohm,

Contact surface:
Gold plated



09 69 281 5140

09 69 181 5140

D-Sub,
Mixed,
Coaxial contact,
Solder/crimp termination,
Straight,
for cables RG 178 BU, 196 AU, 404 U,
50 Ohm,

Contact surface:
Gold plated



09 69 281 5141

09 69 181 5141

D-Sub,
Mixed,
Coaxial contact,
Solder/crimp termination,
Straight,
for cables RG 58 CU, 141 AU,
50 Ohm,

Contact surface:
Gold plated



09 69 281 5143

09 69 181 5143

D-Sub,
Mixed,
Coaxial contact,
Solder/crimp termination,
Straight,
for cables RG 179 BU, 187 AU,
75 Ohm,

Contact surface:
Gold plated



09 69 281 5230

09 69 181 5230

Number of contacts

12

1.5 A 50 V

Modu-
lar

Features

- Suitable for FOC and coaxial contacts acc. to EN 41626

Technical characteristics

Number of contacts	12
Rated current	1.5 A
Rated voltage	50 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Impedance	50 Ω , 75 Ω
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

ATTENTION! Guide pins and bushes are prescribed (see chapter Han 80).

ATTENTION when using coaxial contacts:

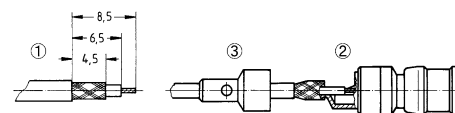
Male module 09 14 004 4501 with contacts 09 14 000 62xx

Female module 09 14 004 4512 with contacts 09 14 000 61xx

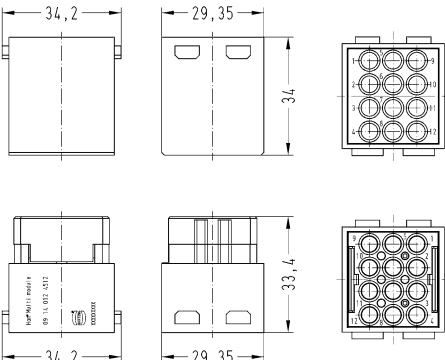
Due to the closed entry design of female insert the upper part has to be removed by screw driver before extracting the contacts.

Assembly instructions

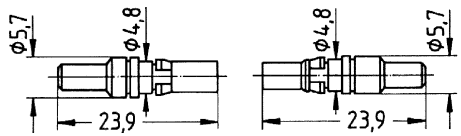
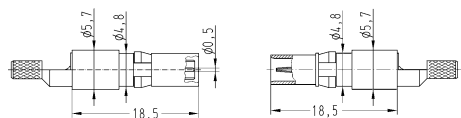
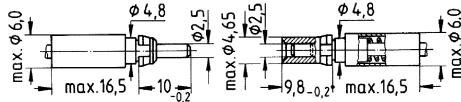
for coaxial contact



- ① Stripping length
- ② Solder termination (during soldering max. +300 °C for 2 s)
- ③ Crimp ferrule

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® Multi module, acc. to DIN 41626  Please order contacts separately.	09 14 012 4501	09 14 012 4512	 Contact arrangement (view from termination side)

Modu-
lar

Identification	Part number		Drawing (dimensions in mm)																																																					
	Male	Female																																																						
DIN 41626, Coaxial contact, Solder/crimp termination, for cables RG 174 U, 188 AU, 316 U, 50 Ohm, Contact surface: Gold plated 	09 14 000 6211	09 14 000 6111																																																						
DIN 41626, Coaxial contact, Solder/crimp termination, for cables RG 179 BU, 187 AU, 75 Ohm, Contact surface: Gold plated 	09 14 000 6221	09 14 000 6121	 <table><tr><th rowspan="2">Wires</th><th>Shell ∅</th><th>Internal wire ∅</th><th colspan="3">Dämpfung db/100 m bei</th></tr><tr><th>mm</th><th>mm</th><th>100MHz</th><th>200MHz</th><th>800MHz</th></tr><tr><td>50 Ω</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>RG 174 / U</td><td>2.5</td><td>0.48</td><td></td><td></td><td>84</td></tr><tr><td>RG 188 A / U</td><td>2.6</td><td>0.54</td><td>29</td><td>40</td><td></td></tr><tr><td>RG 316 / U</td><td>2.5</td><td>0.54</td><td></td><td>40</td><td></td></tr><tr><td>75 Ω</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>RG 179 B / U</td><td>2.55</td><td>0.3</td><td></td><td>41</td><td></td></tr><tr><td>RG 187 A / U</td><td>2.7</td><td>0.3</td><td></td><td>41</td><td></td></tr></table>	Wires	Shell ∅	Internal wire ∅	Dämpfung db/100 m bei			mm	mm	100MHz	200MHz	800MHz	50 Ω						RG 174 / U	2.5	0.48			84	RG 188 A / U	2.6	0.54	29	40		RG 316 / U	2.5	0.54		40		75 Ω						RG 179 B / U	2.55	0.3		41		RG 187 A / U	2.7	0.3		41	
Wires	Shell ∅	Internal wire ∅	Dämpfung db/100 m bei																																																					
	mm	mm	100MHz	200MHz	800MHz																																																			
50 Ω																																																								
RG 174 / U	2.5	0.48			84																																																			
RG 188 A / U	2.6	0.54	29	40																																																				
RG 316 / U	2.5	0.54		40																																																				
75 Ω																																																								
RG 179 B / U	2.55	0.3		41																																																				
RG 187 A / U	2.7	0.3		41																																																				
DIN 41626, FO contact, for 1 mm plastic fibre 	20 10 001 4211	20 10 001 4221																																																						
DIN 41626, FO contact, for SI fibre (HCS®) 200/230 µm 	20 10 230 4211	20 10 230 4221																																																						
DIN 41626, FO contact, for GI fibre 50/125 µm, for ceramic ferrule 62.5/125 µm 	20 10 125 4212	20 10 125 4222																																																						

Number of contacts

3



Modu-
lar

Features

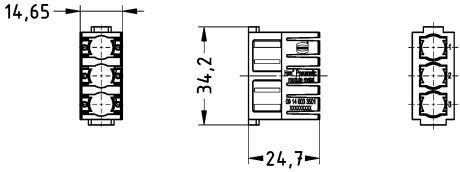
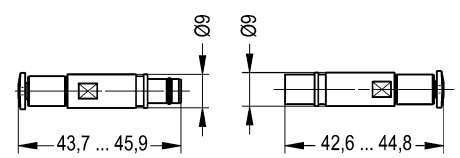
- for the transmission of clean and dry compressed air
- Female contacts with / without shut-off
- The Han® Pneumatic contacts without shut-off are suitable for the use inside a vacuum. (Limit: 100 mbar = 100 hPa ≈ approx 90% vacuum)

Technical characteristics

Number of contacts	3
Limiting temperature	-40 ... +85 °C, -20 ... +85 °C
	Tube outer diameter
Operating pressure	≤10 bar
Mating cycles	≥10000
Tube inner diameter	3 mm, 4 mm, 6 mm
Tube outer diameter	3 mm, 4 mm, 6 mm
Material (insert)	Polycarbonate (PC)
Colour (insert)	Blue
Material (seal)	NBR
Colour (seal)	Black
Material (contacts)	Brass
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

IEC 61984
EN 60664-1
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® Pneumatic module  Please order contacts separately. Pneumatic contact, Without shut-off, Straight, Tube outer diameter 	09 14 003 3501	09 14 003 3501	 Contact arrangement (view from mating side) 
	09 14 000 6353 09 14 000 6354 09 14 000 6356	09 14 000 6453 09 14 000 6454 09 14 000 6456	

Modu-
lar

Identification		Part number		Drawing (dimensions in mm)
		Male	Female	
Pneumatic contact, Without shut-off, Angled, Tube outer diameter	3 mm 4 mm 6 mm	09 14 000 7353 09 14 000 7354 09 14 000 7356	09 14 000 7453 09 14 000 7454 09 14 000 7456	
Pneumatic contact, With shut-off, Straight, Tube outer diameter	3 mm 4 mm 6 mm		09 14 000 6463 09 14 000 6464 09 14 000 6466	
Pneumatic contact, With shut-off, Angled, Tube outer diameter	3 mm 4 mm 6 mm		09 14 000 7463 09 14 000 7464 09 14 000 7466	
Pneumatic contact, Without shut-off, Straight, Tube inner diameter	3 mm 4 mm 6 mm	09 14 000 6303 09 14 000 6304 09 14 000 6306	09 14 000 6403 09 14 000 6404 09 14 000 6406	
Pneumatic contact, With shut-off, Straight, Tube inner diameter	3 mm 4 mm 6 mm		09 14 000 6413 09 14 000 6414 09 14 000 6416	
O-ring rubber seal, for pneumatic contacts		09 14 000 9806		

Features

- Suitable for HARTING SC contacts
- for GI-Fibre 50 - 62,5 / 125µm
- Insertion loss < 0.5 dB

Technical characteristics

Number of contacts	4
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

UL 1977 ECBT2.E235076
DNV GL

Details

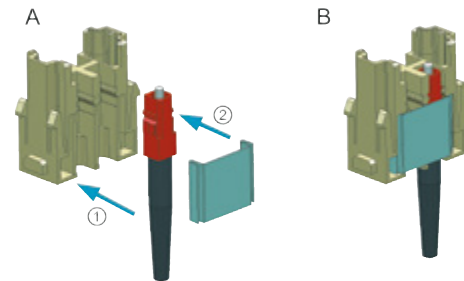
The male and female modules each use the same contacts.

Guide pins and bushes are recommended (see chapter Han 80).

Details

Assembly instructions

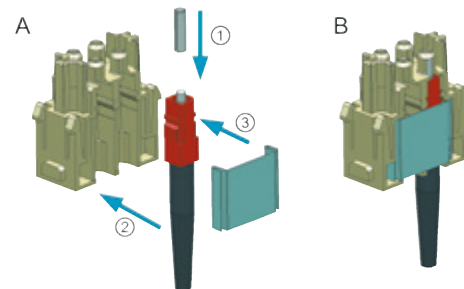
Male module



- A) Assemble the SC contact
Push the SC contact from the side into the relevant insert ①
Push the fixing plate from the side over the contacts ②
B) SC contact fixed in the module

Assembly instructions

Female module

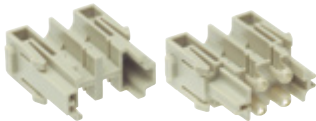
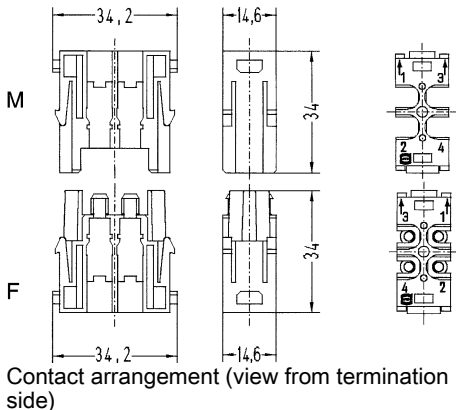
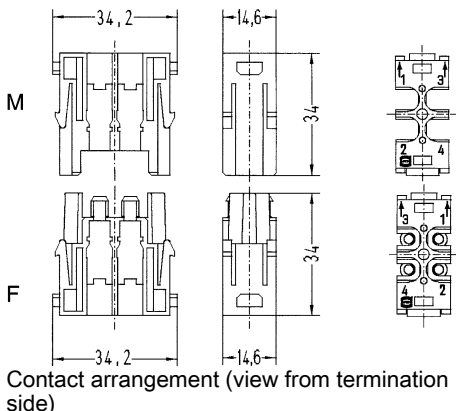
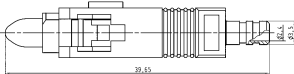


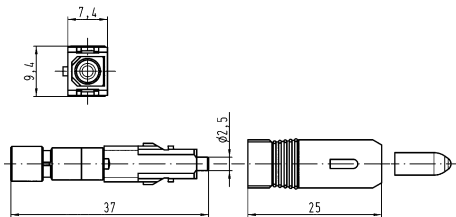
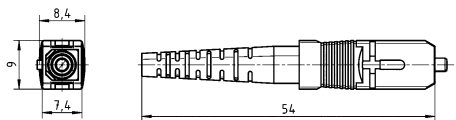
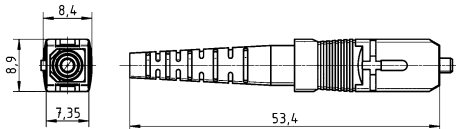
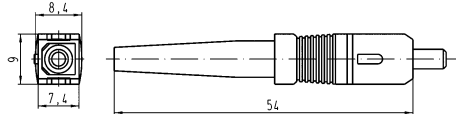
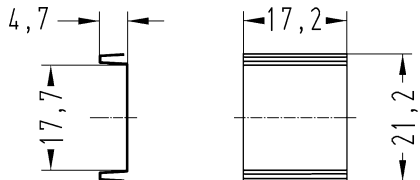
- A) Assemble the SC contact
Push the centering ferrule (included in delivery) on the SC contact ①
Push the SC contact from the side into the relevant insert ②
Push the fixing plate from the side over the contacts ③
B) SC contact fixed in the module

Number of contacts

4

Modu-
lar

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® SC module  Please order contacts separately.	09 14 004 4701	09 14 004 4712	 Contact arrangement (view from termination side)
Han-Modular®, Han® SC module, with ceramic ferrule 62.5/125 µm  Please order contacts separately. Please order fixing plate separately.		09 14 004 4711	 Contact arrangement (view from termination side)
Han-Modular®, Han® SC module, with metal ferrule  Please order contacts separately.		09 14 004 4713	
SC contact, for 1 mm plastic fibre, Crimp termination 	20 10 001 5211		

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
SC contact, for 1 mm plastic fibre, Fast termination 	20 10 001 5217		
SC contact, for singlemode fibre 9/125 µm 	20 10 125 5220		
SC contact, for GI fibre 50/125 µm, for ceramic ferrule 62.5/125 µm 	20 10 125 5211		
SC contact, for SI fibre (HCS®) 200/230 µm 	20 10 230 5211		
Han-Modular®, Fixing plate, for SC module 	09 14 000 9965	09 14 000 9965	

Modu-
lar

Number of contacts

6

Features

- Suitable for HARTING LC contacts
- for GI-Fibre 50 - 62.5 / 125 µm and for singlemode fibre

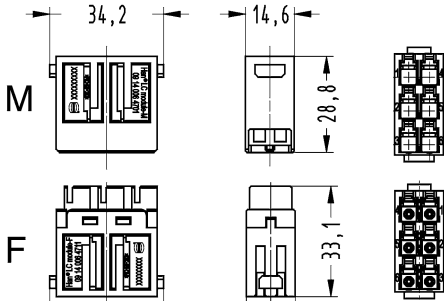
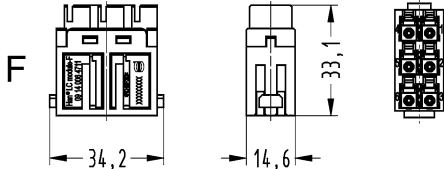
Technical characteristics

Number of contacts	6
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Details

The male and female modules each use the same contacts.

ATTENTION! Guide pins and bushes are prescribed (see chapter Han 80).

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® LC module  Please order contacts separately.	09 14 006 4701	09 14 006 4711	M  F  Contact arrangement (view from termination side)

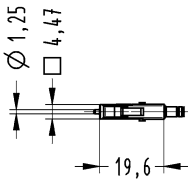
Technical characteristics

Limiting temperature -40 ... +75 °C

Technical characteristics

RoHS

compliant with exemption,
compliant

Identification	Part number Male	Drawing (dimensions in mm)
LC contact, Singlemode for cable diameter up to 2 mm	20 10 125 8221	
 LC contact, Singlemode for cable diameter up to 3 mm	20 10 125 8220	
 LC contact, Multimode for cable diameter up to 2 mm	20 10 125 8212	
 LC contact, Multimode for cable diameter up to 3 mm	20 10 125 8211	
		

Features

- Single module with standard shielded RJ45 plug and jack
- The RJ45 inserts are protected by a reliable plastic insulator
- Patch cables are assembled/removed without tools
- Auto-crossing
- Auto-negotiation
- Auto-polarity
- Store and Forward
- Fast Ethernet
- Full Gigabit Ethernet
- Non blocking
- Support of Jumbo-Frames (10 kBytes)
- Energy Efficient Ethernet acc. to IEEE 802.3az

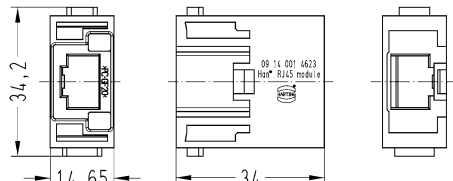
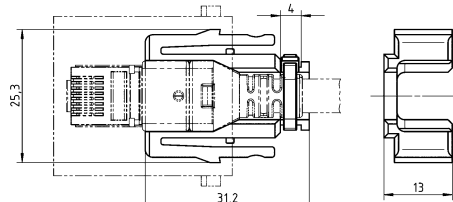
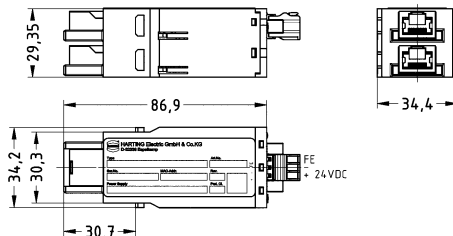
Technical characteristics

Total number of ports	4
Insulation resistance	>10 ¹⁰ Ω
Limiting temperature	-40 ... +125 °C
Operating temperature	-40 ... +70 °C
Storage temperature	-40 ... +85 °C
Relative humidity	30 ... 95 % Non-condensing
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP30, mated condition
Nominal voltage	24 V DC
Transmission characteristics	Cat. 5, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s
Diagnostic display	Connection (Link), Data transfer (Act), Data transfer rate, Power connection
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
 IEC 61984
 DNV GL
 EN 55022 Radio disturbance characteristics
 EN 61000-4-2 Electrostatic discharge (ESD)
 EN 61000-4-3 Electromagnetic field
 EN 61000-4-4 Rapid transients (burst)
 EN 61000-4-5 Surge voltages
 EN 61000-4-6 conducted disturbances
 EN 61000-6-4 emission standard
 IEC 60068-2-6 Vibration (sinusoidal)
 IEC 60068-2-27 Shock
 IEEE 802.3



Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® RJ45 module, Single module 	09 14 001 4623		
Han-Modular®, Han® RJ45 module, Adapter, for patch cable 	09 14 000 9966		
Han-Modular®, Han-Smart®, Switch US4, IP30 mated condition 		09 80 113 0400	

Number of contacts

7



Features

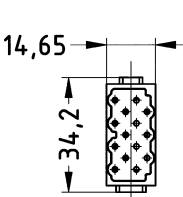
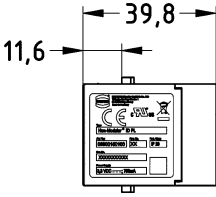
- Module for identifying industrial components
- Programming via the CANopen communication protocol
- Automatically detects baud rate
- Node ID configuration using LSS, acc. to DS305
- Status and diagnostics display
- Default Node ID: 127

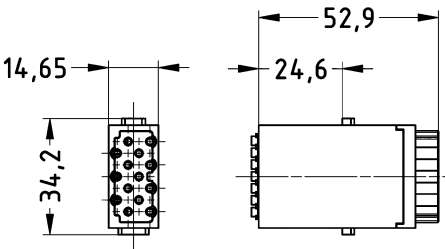
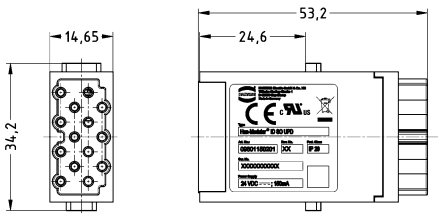
Technical characteristics

Number of contacts	7
Operating temperature	-40 ... +70 °C
Storage temperature	-40 ... +70 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP30
Nominal voltage	24 V DC
Power consumption	<5 W
Memory	10 MB Flash
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Polycarbonate (PC)
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

IEC 60721-3-3
EN 50102
EN 61000-4-2 Electrostatic discharge (ESD)
EN 61000-4-3 Electromagnetic field
EN 61000-4-4 Rapid transients (burst)
EN 61000-4-5 Surge voltages
EN 61000-4-6 conducted disturbances

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han-Smart®, ID CAN, Memory module / CPU, IP30 Contact surface: Gold plated 	09 80 015 0100		 

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han-Smart®, ID CAN, Network module, Cage-clamp termination, IP30 Contact surface: Gold plated 		09 80 115 0200	
Han-Modular®, Update module, to update the male module 		09 80 115 0201	

Modu-
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Number of contacts

7

Modu-
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Features

- Module for identifying industrial components
- Profinet I/O communication protocol conformance class B
- SNMP enabled (V1, V2C)

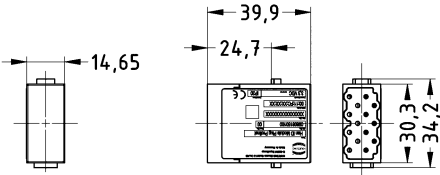
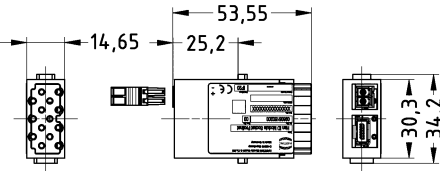
Technical characteristics

Number of contacts	7
Operating temperature	-40 ... +70 °C
Storage temperature	-40 ... +70 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP20
Nominal voltage	24 V DC ±10 %
Power consumption	<2 W
Memory	32 KByte Flash
Write cycles	≥100000
Real-time class	RT acc. to IEC 61158
Diagnostic display	Connection (Link), Power connection
Material (insert)	Polycarbonate (PC), Liquid crystal polymer (LCP)
Colour (insert)	RAL 7032 (pebble grey), White
Material flammability class acc. to UL 94	V-0

Specifications and approvals

IEC 60721-3-3
 EN 50102
 EN 61000-4-2 Electrostatic discharge (ESD)
 EN 61000-4-3 Electromagnetic field
 EN 61000-4-4 Rapid transients (burst)
 EN 61000-4-5 Surge voltages
 EN 61000-4-6 conducted disturbances
 IEC 61158 PROFINET



Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han-Smart®, ID Profinet, Memory module / CPU, IP20 	09 80 615 0100		
GSD software file and operating instructions can be downloaded from the eCatalogue. Han-Modular®, Han-Smart®, ID Profinet, Power supply, Data interface with HARTING ix Industrial® (Typ A), IP20 		09 80 615 0200	
GSD software file and operating instructions can be downloaded from the eCatalogue.			

Number of contacts

5



Modu-
lar

Features

- Surge protection for two pairs of balanced signals
- Protects symmetric signals interfaces with electrical isolation

Technical characteristics

Number of contacts	5
Operating temperature	-40 ... +85 °C
Storage temperature	-40 ... +85 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP20
Nominal current	0.5 A
Nominal voltage	24 V DC, 24 V AC
Material (insert)	Polyamide (PA)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Details

The surge protection module protects up to 2 pairs of balanced signal interfaces with electrical isolation against lightning strikes or overvoltage events.

Preferred field of application is the protection of analogue signal interfaces like for 0/4-20 mA or differential signals.

The equipotential bonding will be led via the earthed hinged frame of the Han-Modular® system.

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han-Smart®, Han-Smart® Surge protection module, Two channels, Differential mode without common reference potential, Push-in-spring-cage termination, IP20	0.25 ... 1.5	09 80 000 0100	09 80 003 0200	Circuit diagram

Number of contacts

5



Modu-
lar

Features

- Surge protection for four single lines
- Protects signals with common reference potential

Technical characteristics

Number of contacts	5
Operating temperature	-40 ... +85 °C
Storage temperature	-40 ... +85 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP20
Nominal current	0.5 A
Nominal voltage	24 V DC
Material (insert)	Polyamide (PA)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Details

The surge protection module protects up to 4 single lines with common reference potential and unbalanced interfaces against lightning strikes or overvoltages.

Preferred field of application is the protection of digital signals up to 24 VDC with a max load of 0.5 A / line.

The equipotential bonding will be led via the earthed hinged frame of the Han-Modular® system.

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154**

Features

- Robust housing
- Compact design saves space
- Modular structure increases flexibility
- Simple and quick assembly
- Two-part hood

Technical characteristics

Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65, locked condition
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Nickel plated
Material (seal)	NBR
Material (locking)	Stainless steel
Material (accessories)	Metal
RoHS	compliant

Specifications and approvals

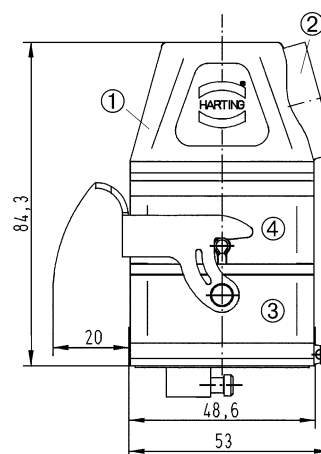
IEC 61984



Details

Conductor cross-section PE 0.5 ... 10 mm²

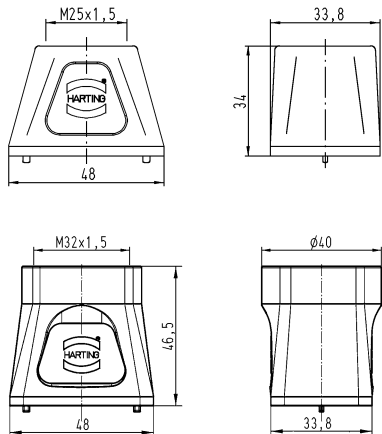
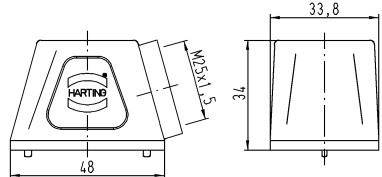
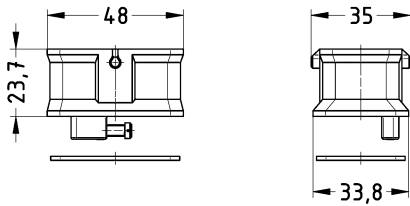
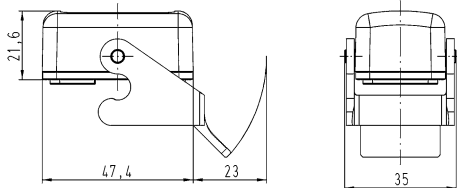
Conductor cross-section 10 mm² only with ferrule crimping tool 09 99 000 0374



- ① Hood with side entry
- ② Cable entry M25
- ③ Bulkhead mounted housing with locking lever
- ④ Carrier hood

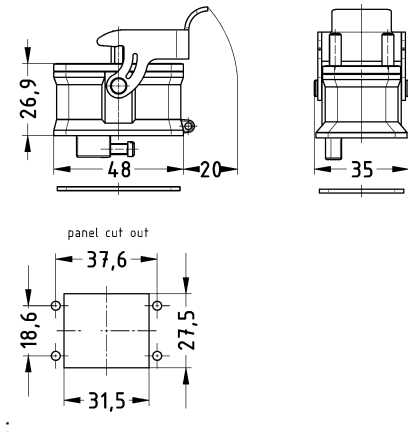
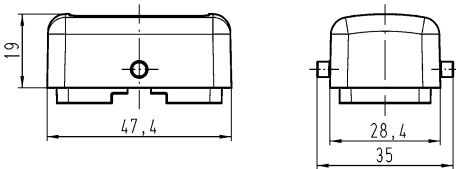
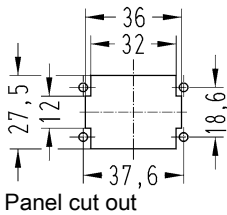
Single locking lever

Modu-
lar

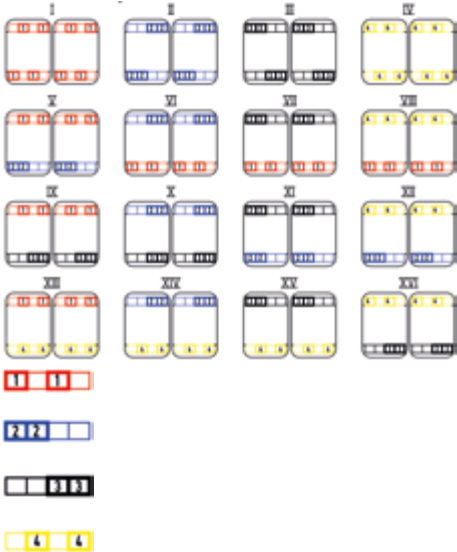
Identification	Cable entry	Part number	Drawing (dimensions in mm)	
Han-Modular® Compact, Hood, Top entry, IP65 locked condition Pack contents: 4 screws are included within the delivery 	1x M25 1x M32	19 14 001 0401 19 14 001 0402		
Han-Modular® Compact, Hood, Side entry, IP65 locked condition Pack contents: 4 screws are included within the delivery 	1x M25	19 14 001 0501		
Han-Modular® Compact, Carrier hood, IP65 locked condition 		09 14 001 0311		
Han-Modular® Compact, Protection cover, for carrier hoods, Thermoplastic, IP65 locked condition 		09 14 001 5402		

Single locking lever

Modu-
lar

Identification	Part number	Drawing (dimensions in mm)
Han-Modular® Compact, Bulkhead mounted housing, IP65 locked condition 	09 14 001 0301	
Han-Modular® Compact, Protection cover, for bulkhead mounted housings, Thermoplastic, IP65 locked condition 	09 14 001 5401	
Fixing bracket 	09 14 000 9947	

Modu-
lar

Technical characteristics		Technical characteristics	
Material (accessories)	Polycarbonate (PC)	Colour (accessories) RoHS	Red, Blue, Black, Yellow compliant
Identification	Part number	Drawing (dimensions in mm)	
Coding element, Red	09 14 000 9971		
			
Coding element, Blue	09 14 000 9972		
			
Coding element, Black	09 14 000 9973		
			
Coding element, Yellow	09 14 000 9974		
			

Features

- Robust housing
- Compact design saves space
- Modular structure increases flexibility
- Simple and quick assembly
- Two-part hood

Technical characteristics

Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Aluminium die-cast, Zinc die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 7037 (dust grey)
Material (seal)	NBR
Material (locking)	Polycarbonate (PC), Stainless steel
Colour (locking)	RAL 7037 (dust grey)
Material (accessories)	Zinc die-cast
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

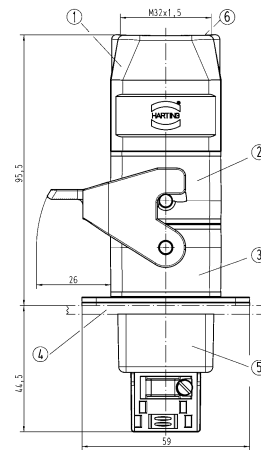
IEC 61984



Details

Conductor cross-section PE 0.5 ... 10 mm²

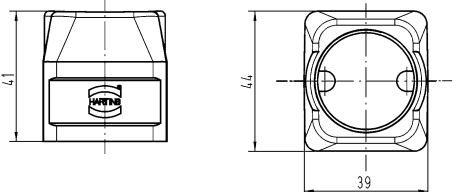
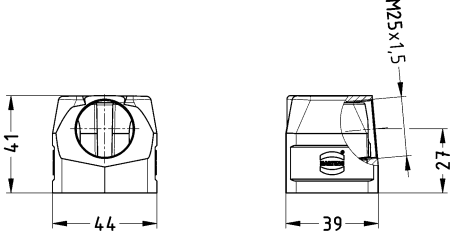
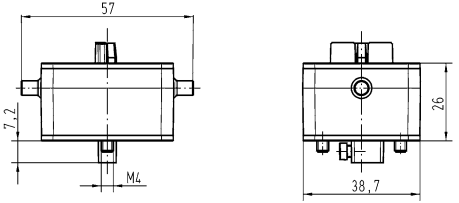
Conductor cross-section 10 mm² only with ferrule crimping tool 09 99 000 0374

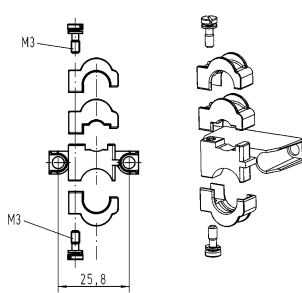


- ① Hood with top entry
- ② Carrier hood
- ③ Bulkhead mounted housing with locking lever
- ④ Switch board panel
- ⑤ Panel feed through housings
- ⑥ Cable entry

Single locking lever



Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Modular® Twin, Hood, Top entry, IP65 	1x M20 1x M25 1x M32	19 14 002 0400 19 14 002 0401 19 14 002 0402	
Han-Modular® Twin, Hood, Side entry, IP65 	1x M25	19 14 002 0501	
Han-Modular® Twin, Carrier hood, IP65 		09 14 002 0311	
Han-Modular® Twin, Angled housing, Zinc die-cast, IP65 	1x M32	09 14 002 0950 19 14 002 0952	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Shielded frame		09 14 000 9924	



Single locking lever



Identification

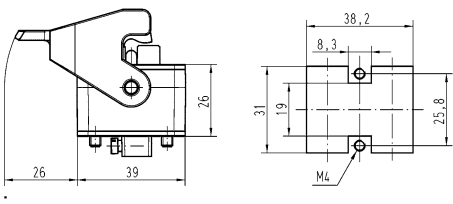
Han-Modular® Twin,
Bulkhead mounted housing,
Han-Easy Lock®,
IP65



Part number

09 14 002 0301

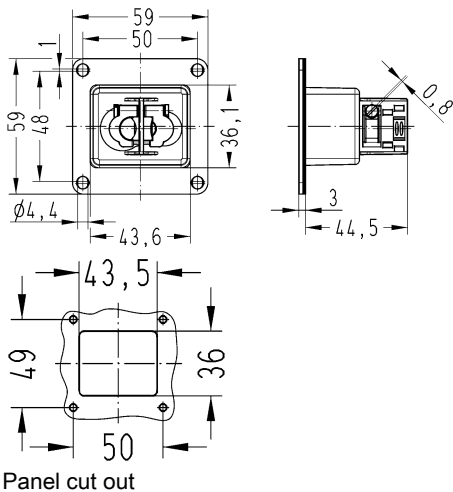
Drawing
(dimensions in mm)



Han-Modular® Twin,
Panel feed through housing,
Zinc die-cast,
IP65



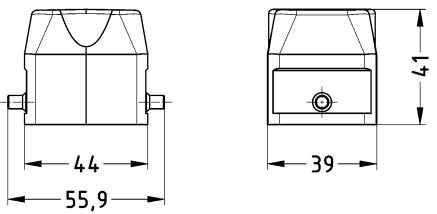
09 14 000 9928



Han-Modular® Twin,
Protection cover,
for bulkhead mounted housings,
Metal,
IP65



09 14 002 5401



Features

- Suitable for all Han-Modular® single modules
- The variant with PE connection uses pin 1 of the module as PE
- Slim, space saving construction type
- Low cost plastic hoods and housings

Technical characteristics

Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65, IP20
Material (hood/housing)	Polycarbonate (PC)
Colour (hood/housing)	RAL 7032 (pebble grey)
Material (seal)	NBR
Material (accessories)	Polycarbonate (PC)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

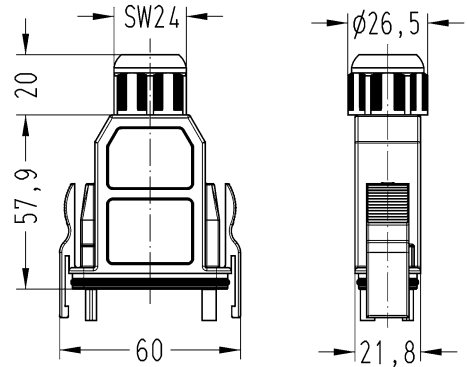
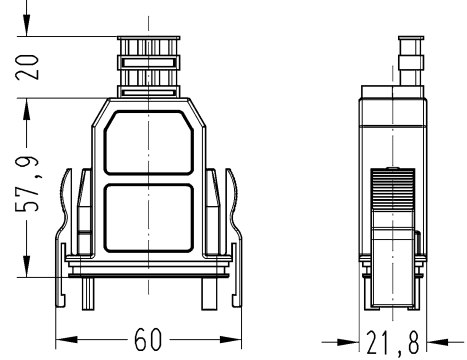
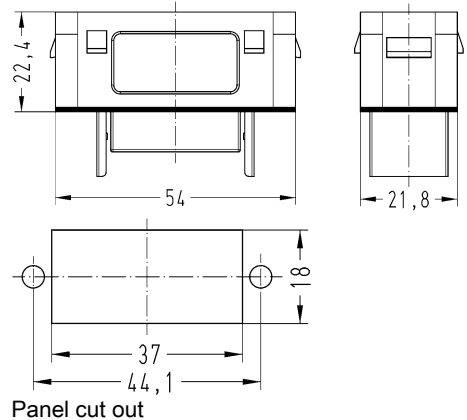
EN 60664-1
IEC 61984

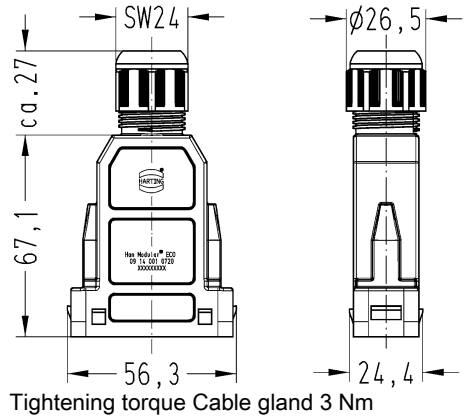
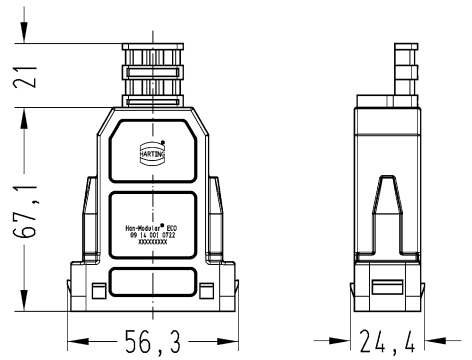


Modu-
lar

Snap-in latches

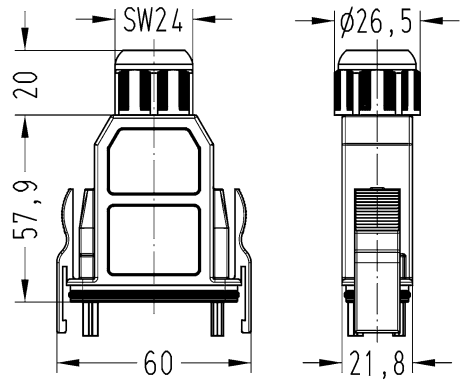
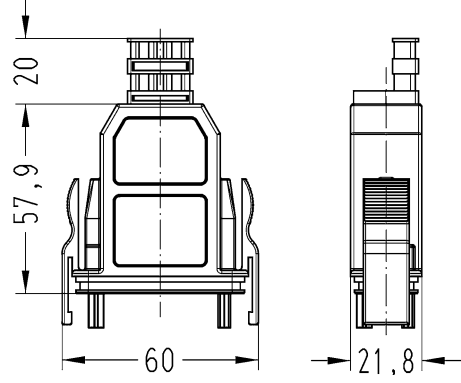
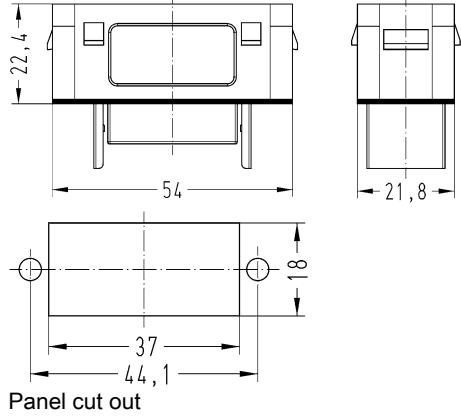
Modular

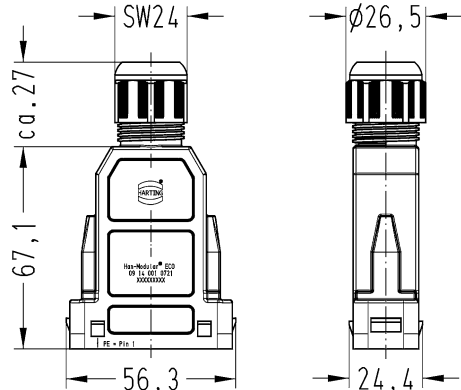
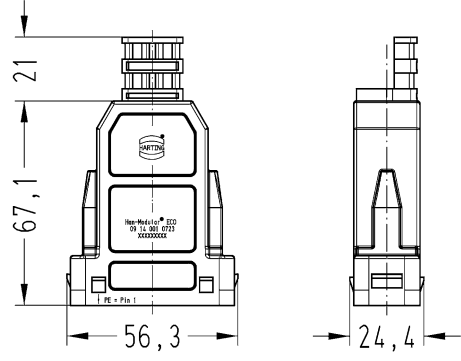
Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han-Modular® ECO, Hood, With integrated cable gland, Top entry, IP65, IP65 	1x Integrated	6 ... 13	09 14 001 0420	 Tightening torque Cable gland 3 Nm
Han-Modular® ECO, Hood, Top entry, IP20, IP20 	1x	3 ... 14.5	09 14 001 0422	
Han-Modular® ECO, Bulkhead mounted housing, IP65 			09 14 001 0320	 Panel cut out

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han-Modular® ECO, Cable to cable housing, With integrated cable gland, Top entry, IP65, IP65 	1x Integrated	6 ... 13	09 14 001 0720	 Tightening torque Cable gland 3 Nm
Han-Modular® ECO, Cable to cable housing, Top entry, IP20, IP20 	1x	3 ... 14.5	09 14 001 0722	
Han-Modular®, Coding element, Pack contents: 8 pieces per frame 			09 14 000 9929	

Snap-in latches

Modular

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han-Modular® ECO, Hood, With PE identification (pin 1 = PE), With integrated cable gland, Top entry, IP65, IP65 	1x Integrated	6 ... 13	09 14 001 0421	 Tightening torque Cable gland 3 Nm
Han-Modular® ECO, Hood, With PE identification (pin 1 = PE), Top entry, IP20, IP20 	1x	3 ... 14.5	09 14 001 0423	
Han-Modular® ECO, Bulkhead mounted housing, With PE identification (pin 1 = PE), IP65 			09 14 001 0321	 Panel cut out

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han-Modular® ECO, Cable to cable housing, With PE identification (pin 1 = PE), With integrated cable gland, Top entry, IP65, IP65	1x Integrated	6 ... 13	09 14 001 0721	 Tightening torque Cable gland 3 Nm
Han-Modular® ECO, Cable to cable housing, With PE identification (pin 1 = PE), Top entry, IP20, IP20	1x	3 ... 14.5	09 14 001 0723	
Han-Modular®, Coding element, Pack contents: 8 pieces per frame			09 14 000 9929	



Features

- Fast, easy and secure assembly
- Flexible building block system
- Suitable for Han-Modular® modules
- Over 100 modules available

Technical characteristics

Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP54
Material (hood/housing)	Polyamide (PA), Fibre-glass reinforced
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Colour (seal)	RAL 9005 (jet black)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

IEC 61984
EN 45545-1 R22: HL1, HL2

Details

Safety note

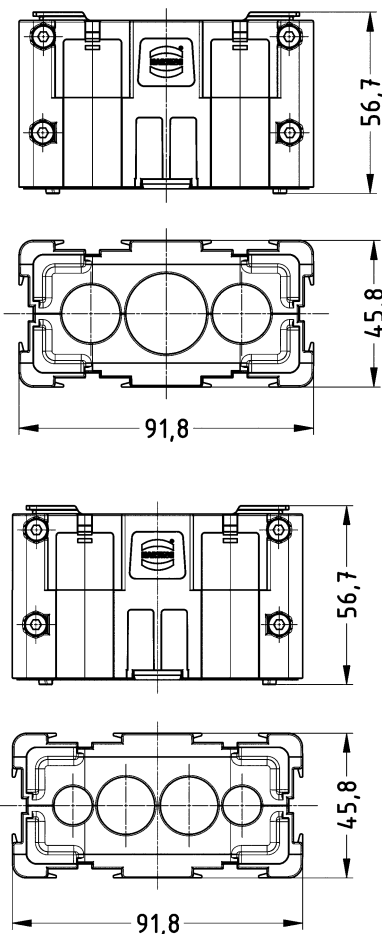
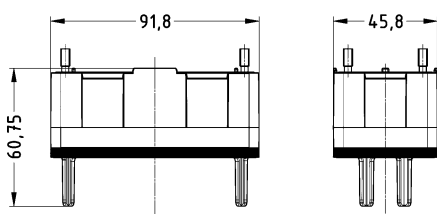
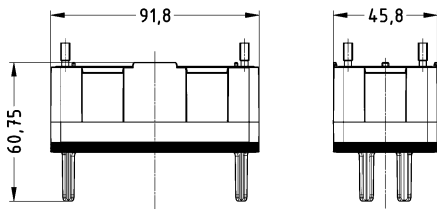


The modules listed in the table below are excluded from being used in the Han-Modular® Flexbox.

Module	Part no.
Han® 100A module (axial screw)	09 14 002 265X / 09 14 002 275X
Han® 70A module (axial screw)	09 14 002 264X / 09 14 002 274X
Han® 70A Hybrid module	09 14 005 264X / 09 14 005 274X
Han® HV module ("double")	09 14 002 302X / 09 14 002 312X
Han® HV Single module	09 14 002 3025 / 09 14 002 3125
Han® Megabit module	09 14 008 30XX / 09 14 008 31XX
Han-Smart® Ethernet-Switch module	09 80 113 0400

The following module is excluded from any use ≥ 1000 V in the Han-Modular® Flexbox:

Module	Part no.
Han® 300 A module	09 14 001 3004 / 09 14 001 3104

Identification	Cable entry	Clamping range (mm)	Part number	Drawing (dimensions in mm)
Han-Modular® Flexbox, Hood, Top entry, IP54 	3x 4x	5 ... 24 4 ... 16	09 14 000 8013 09 14 000 8014	
Han-Modular® Flexbox, Carrier hood, for 4 modules, a ... d, IP54 			09 14 004 8001	
Han-Modular® Flexbox, Carrier hood, for 4 modules, A ... D, IP54 			09 14 004 8101	

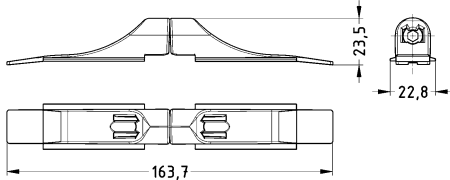
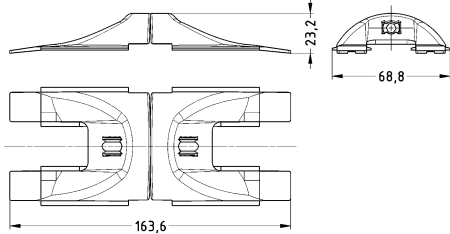
Modu-
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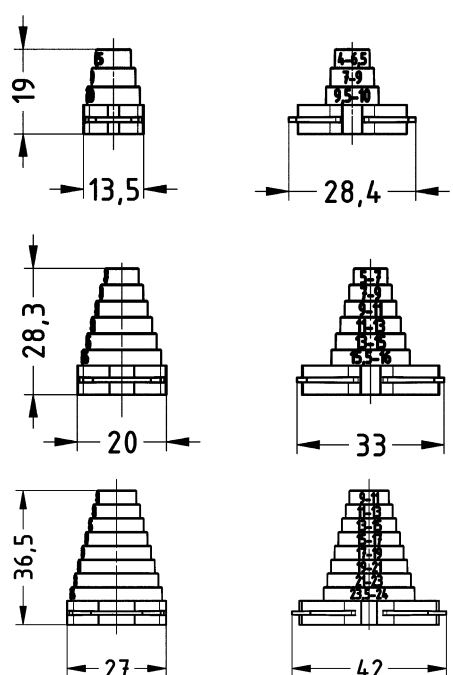
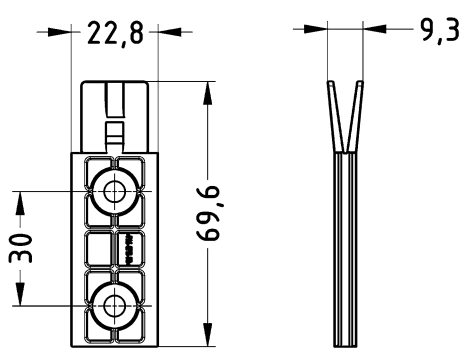
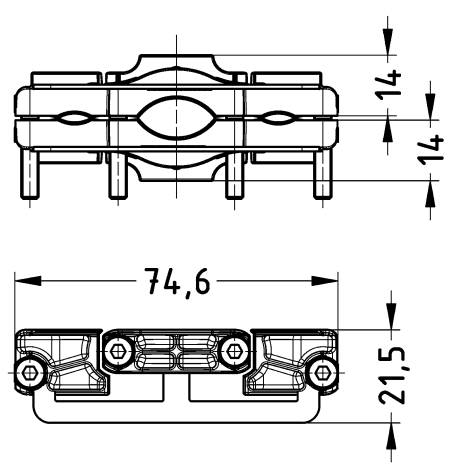
Technical characteristics

Material (seal)	NBR
Colour (seal)	RAL 9005 (jet black)
Material (locking)	Polyamide (PA), Fibre-glass reinforced

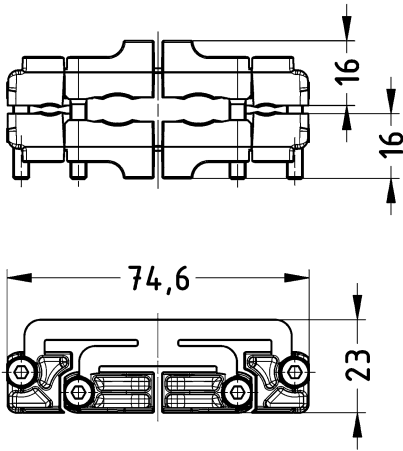
Technical characteristics

Colour (locking)	RAL 9005 (jet black)
Material (accessories)	Polyamide (PA), Fibre-glass reinforced
Colour (accessories)	RAL 9005 (jet black)
RoHS	compliant

Identification	Clamping range (mm)	Part number	Drawing (dimensions in mm)
Locking element, Single 		09 14 000 8021	
Locking element, Double 		09 14 000 8022	

Identification	Clamping range (mm)	Part number	Drawing (dimensions in mm)
Cable seal 	4 ... 10 5 ... 16 9 ... 24	09 14 000 8100 09 14 000 8200 09 14 000 8300	
Fixing, for the combination of two Flexboxes and for mounting the Flexbox 		09 14 000 8020	
Strain relief, 3 cable entries 		09 14 000 8033	

Modu-
lar

Identification	Clamping range (mm)	Part number	Drawing (dimensions in mm)
Strain relief, 4 cable entries 		09 14 000 8034	

Features

- Blind mating connector system for drawer systems
- Highest flexibility due to a product range of over 100 connector modules
- Direct panel mounting without hoods and housings
- Leading centring system compensates for tolerances of +/- 2 mm
- Compatible with HMC components for 10,000 mating cycles

Technical characteristics

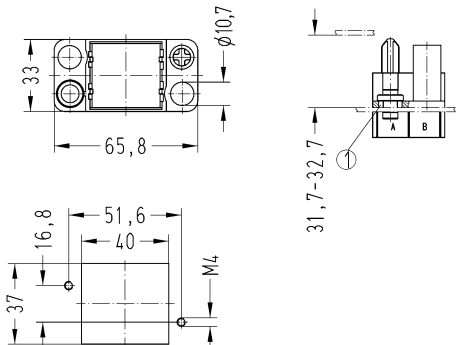
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Mating cycles with other HMC components	≥10000
Degree of protection acc. to IEC 60529	IP20
Lock-in range	±4 mm
Material (frames)	Polycarbonate (PC)
Material (accessories)	Zinc die-cast
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

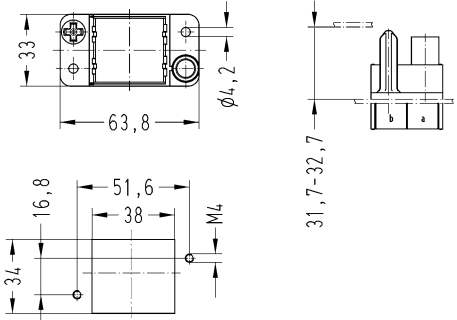
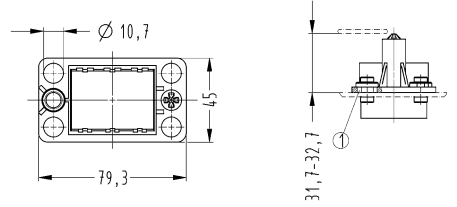
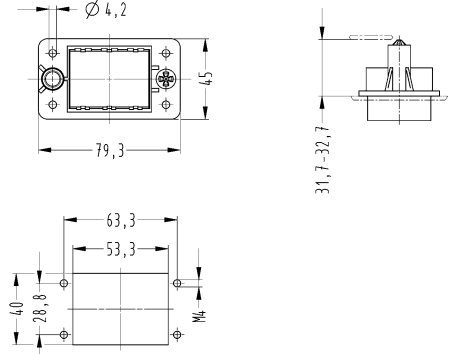
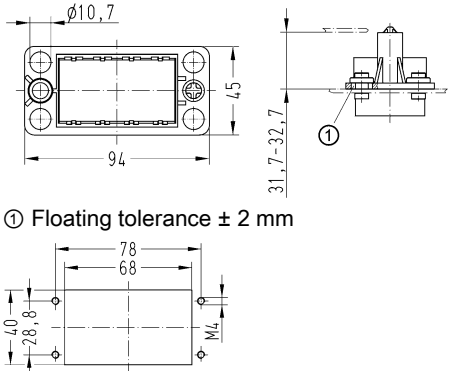
EN 60664-1
IEC 61984

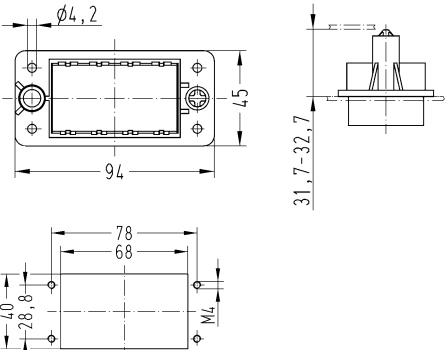
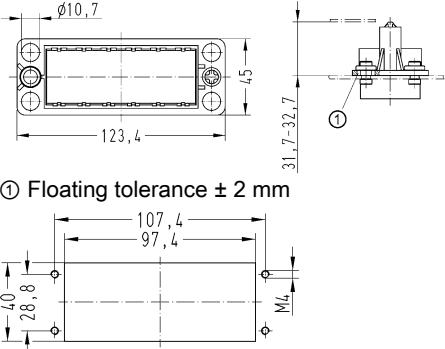
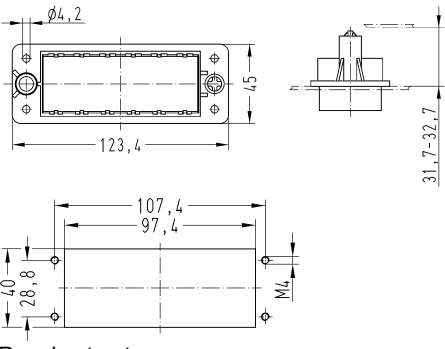
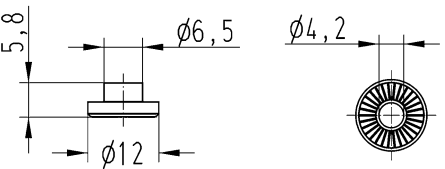
Details

The docking frame has no PE contact as it is not required in many drawer system applications.

Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Docking frame, Float mount, for 2 modules, A ... B, IP20 	09 14 006 1701	 ① Floating tolerance ± 2 mm Panel cut out

Modu-
lar

Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Docking frame, Fixed, for 2 modules, a ... b, IP20 	09 14 006 1711	 Panel cut out
Han-Modular®, Docking frame, Float mount, for 3 modules, A ... C, IP20 	09 14 010 1701	 ① Floating tolerance ± 2 mm
Han-Modular®, Docking frame, Fixed, for 3 modules, a ... c, IP20 	09 14 010 1711	 Panel cut out
Han-Modular®, Docking frame, Float mount, for 4 modules, A ... D, IP20 	09 14 016 1701	 ① Floating tolerance ± 2 mm Panel cut out

Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Docking frame, Fixed, for 4 modules, a ... d, IP20 	09 14 016 1711	 Panel cut out
Han-Modular®, Docking frame, Float mount, for 6 modules, A ... F, IP20 	09 14 024 1701	 ① Floating tolerance ± 2 mm Panel cut out
Han-Modular®, Docking frame, Fixed, for 6 modules, a ... f, IP20 	09 14 024 1711	 Panel cut out
Han-Modular®, Float washer To enable the frame to be float mounted using standard M4 fixing screws	09 14 000 9936	



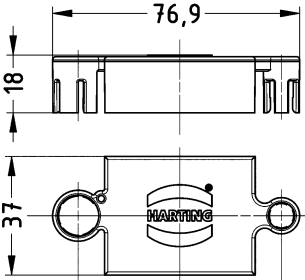
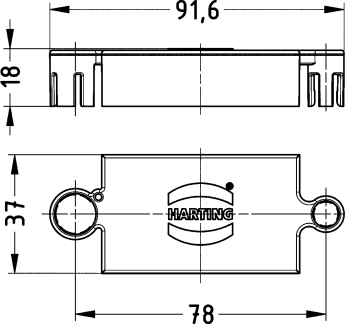
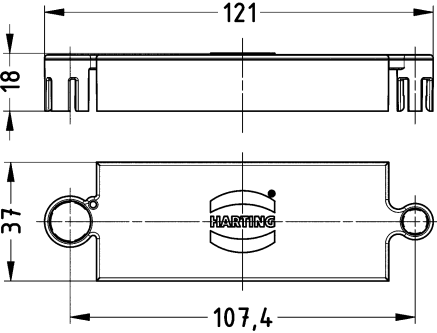
Modu-
lar

Technical characteristics

Limiting temperature -40 ... +125 °C
Degree of protection acc. to IEC IP20
60529
Material (accessories) Thermoplastic
Material flammability class acc. V-0
to UL 94
RoHS compliant

Specifications and approvals

DIN EN 45545-2 R22: HL1, HL2, HL3
DIN EN 45545-2 R23: HL1, HL2, HL3

Identification	Size	Part number	Drawing (dimensions in mm)
Han-Modular®, Dust protection cover, for Han-Modular® plastic docking frame, IP20 	10 B 16 B 24 B	09 14 010 5701 09 14 016 5701 09 14 024 5701	  

Features

- Blind mating connector system for drawer systems with test position
- Direct panel mounting without hoods and housings
- Solid leading guide pins and bushes
- Suitable for many modules of the Han-Modular® product series (Please contact your HARTING salesman for support to find your specific combination.)

Technical characteristics

Limiting temperature	-5 ... +55 °C
Mating cycles	≥500
Lock-in range	±4 mm
Material (frames)	Polycarbonate (PC)
Material (accessories)	Zinc die-cast
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984

Details

Due the plastic material used in the docking frame without PE, the panel will need to be grounded separately.

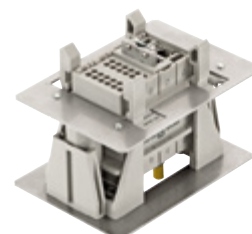
Details



Position unmated
The drawer system and the modules are not mated.



Test position
The drawer system is in the so called test position – the modules are mated.



Working position
The drawer system is pushed completely into the rack – the modules remain mated.



Modu-
lar

Identification	Part number	Drawing (dimensions in mm)
Sliding frame, with test position, for 4 modules, Float mount, A ... D	09 14 016 1721	
Sliding frame, with test position, for 4 modules, Movable side, a ... d	09 14 016 1731	
Han-Modular®, Float washer To enable the Sliding Frame to be float mounted using standard M4 fixing screws	09 14 000 9986	
Rail guide, for sliding frames for movable side	09 14 000 9987	

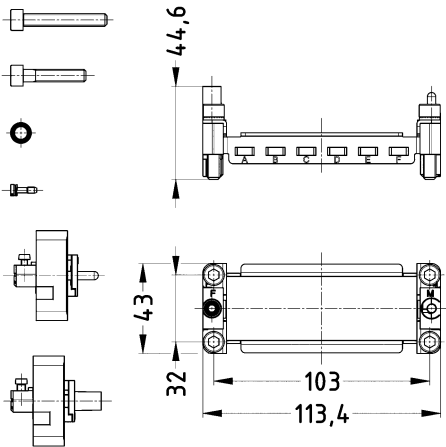
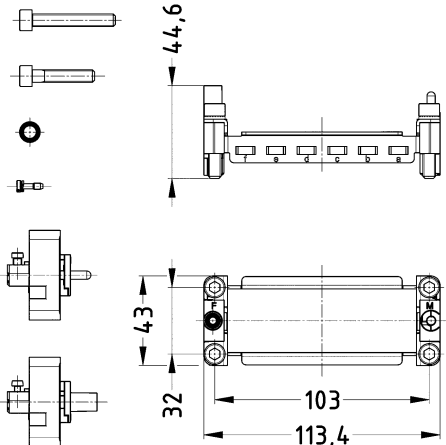
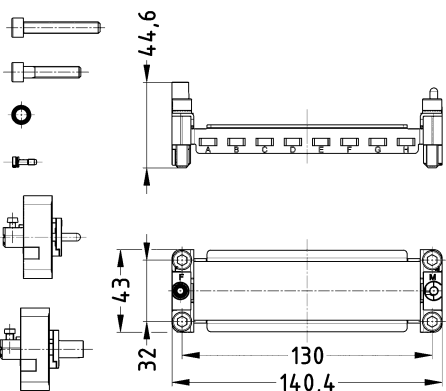
Features

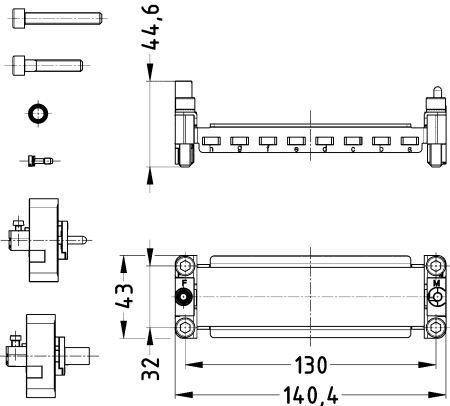
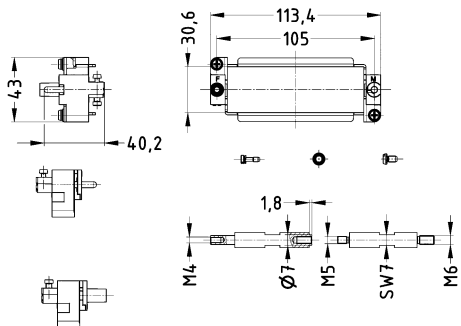
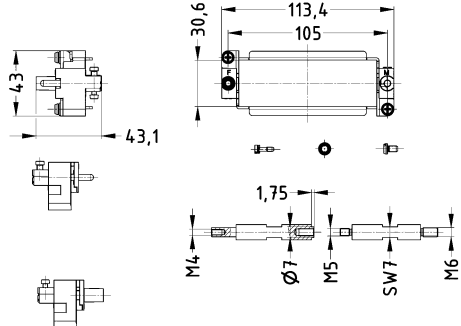
- Hinged frames with additional PE connection for 6 Han-Modu-lar® single modules
- Two leading PE contacts
- Compatible to the hinged frame Han® HPR EasyCon
- Compatible to the hinged frame Han® HPR enlarged

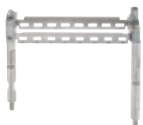
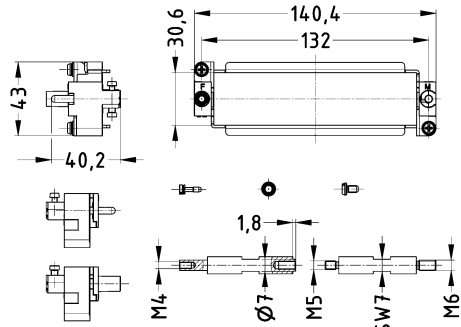
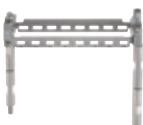
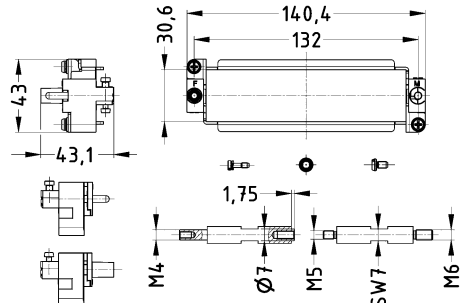
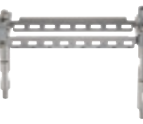
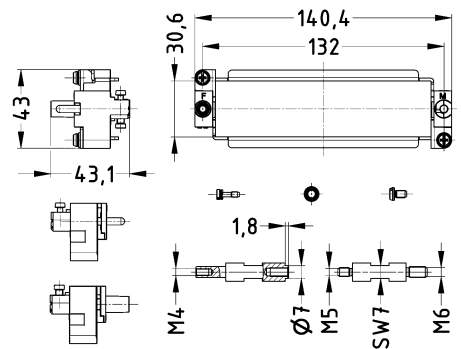
Technical characteristics

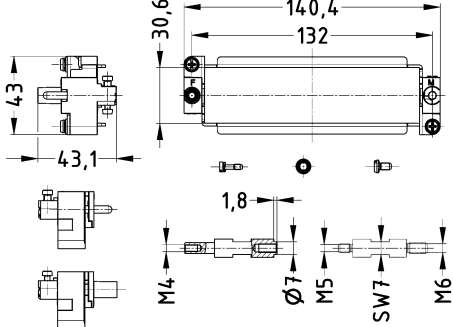
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (accessories)	Stainless steel, Zinc die-cast
RoHS	compliant

Identification	Conductor cross-section (mm²)	Part number	Drawing (dimensions in mm)
Han® HPR enlarged, Frame, for up to 6 single modules, A ... F, Pack contents: 2x M4 screw, 2x washer SK S4, 4x cheese-head screw M6 x 20, 4x cheese-head screw M6 x 30, 4x washer SK S6 		09 11 000 9945	
Han® HPR enlarged, Frame, for up to 6 single modules, a ... f, Pack contents: 2x M4 screw, 2x washer SK S4, 4x cheese-head screw M6 x 20, 4x cheese-head screw M6 x 30, 4x washer SK S6 		09 11 000 9946	

Identification	Conductor cross-section (mm ²)	Part number	Drawing (dimensions in mm)
Han® HPR enlarged, Frame, for up to 6 single modules, A ... F, Pack contents: 1x male PE adapter, 1x female PE adapter, 2x M3 screw, 4x washer SK S6, 4x cheese-head screw M6 x 30, 4x cheese-head screw M6 x 40 	4 ... 10 PE terminal power side, 1 ... 2.5 PE terminal signal side	09 11 016 9933	
Han® HPR enlarged, Frame, for up to 6 single modules, a ... f, Pack contents: 1x male PE adapter, 1x female PE adapter, 2x M3 screw, 4x washer SK S6, 4x cheese-head screw M6 x 30, 4x cheese-head screw M6 x 40 	4 ... 10 PE terminal power side, 1 ... 2.5 PE terminal signal side	09 11 016 9934	
Han® HPR enlarged, Frame, for up to 8 single modules, A ... H, Pack contents: 1x male PE adapter, 1x female PE adapter, 2x M3 screw, 4x washer SK S6, 4x cheese-head screw M6 x 30, 4x cheese-head screw M6 x 40 	4 ... 10 PE terminal power side, 1 ... 2.5 PE terminal signal side	09 11 024 9933	

Identification	Conductor cross-section (mm ²)	Part number	Drawing (dimensions in mm)
Han® HPR enlarged, Frame, for up to 8 single modules, a ... h, Pack contents: 1x male PE adapter, 1x female PE adapter, 2x M3 screw, 4x washer SK S6, 4x cheese-head screw M6 x 30, 4x cheese-head screw M6 x 40 	4 ... 10 PE terminal power side, 1 ... 2.5 PE terminal signal side	09 11 024 9934	
Han® HPR EasyCon, Frame, for up to 6 single modules, A ... F, Pack contents: 1x male PE adapter, 1x female PE adapter, 2x M4/M5 distance bolts (A/F 7), 2x M5/M6 distance bolts (A/F 7), 2x M3 screw, 2x M4 screw, 2x washer SK S4 	4 ... 10 PE terminal power side, 1 ... 2.5 PE terminal signal side	09 40 016 9933	
Frame, for up to 6 single modules, a ... f, Pack contents: 1x male PE adapter, 1x female PE adapter, 2x M4/M5 distance bolts (A/F 7), 2x M5/M6 distance bolts (A/F 7), 2x M3 screw, 2x M4 screw, 2x washer SK S4 	4 ... 10 PE terminal power side, 1 ... 2.5 PE terminal signal side	09 40 016 9934	

Identification	Conductor cross-section (mm ²)	Part number	Drawing (dimensions in mm)
Han® HPR EasyCon, Frame, for up to 8 single modules, A ... H, Pack contents: 1x male PE adapter, 1x female PE adapter, 2x M4/M5 distance bolts (A/F 7), 2x M5/M6 distance bolts (A/F 7), 2x M3 screw, 2x M4 screw, 2x washer SK S4 	4 ... 10 PE terminal power side, 1 ... 2.5 PE terminal signal side	09 40 024 9933	
Han® HPR EasyCon, Frame, for up to 8 single modules, a ... h, Pack contents: 1x male PE adapter, 1x female PE adapter, 2x M4/M5 distance bolts (A/F 7), 2x M5/M6 distance bolts (A/F 7), 2x M3 screw, 2x M4 screw, 2x washer SK S4 	4 ... 10 PE terminal power side, 1 ... 2.5 PE terminal signal side	09 40 024 9934	
Han® HPR EasyCon, Frame, for up to 8 single modules, A ... H, Low construction, Pack contents: 1x male PE adapter, 1x female PE adapter, 2x M4/M5 distance bolts (A/F 7), 2x M5/M6 distance bolts (A/F 7), 2x M3 screw, 2x M4 screw, 2x washer SK S4  ATTENTION! Only to be used with Han® 24 HPR EasyCon Short hoods and housings!	4 ... 10 PE terminal power side, 1 ... 2.5 PE terminal signal side	09 40 024 9935	

Identification	Conductor cross-section (mm²)	Part number	Drawing (dimensions in mm)
Han® HPR EasyCon, Frame, for up to 8 single modules, a ... h, Low construction, Pack contents: 1x male PE adapter, 1x female PE adapter, 2x M4/M5 distance bolts (A/F 7), 2x M5/M6 distance bolts (A/F 7), 2x M3 screw, 2x M4 screw, 2x washer SK S4  ATTENTION! Only to be used with Han® 24 HPR EasyCon Short hoods and housings!	4 ... 10 PE terminal power side, 1 ... 2.5 PE terminal signal side	09 40 024 9936	

Modu-
lar

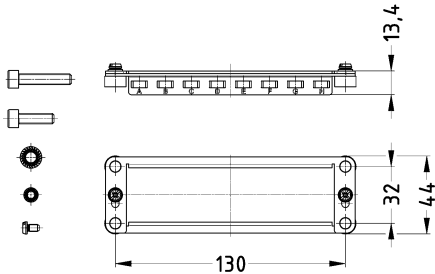
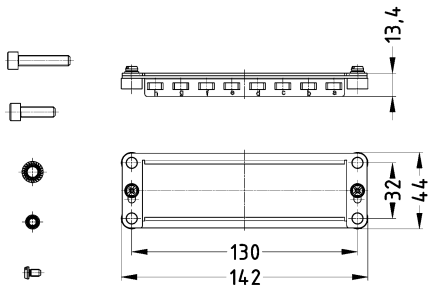
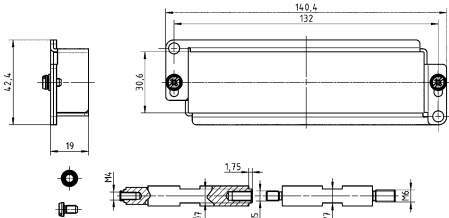
Modu-
lar

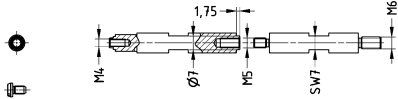
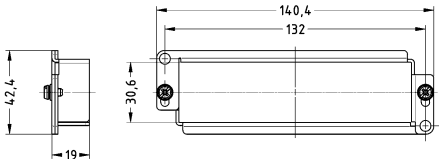
Technical characteristics

Material (accessories) Stainless steel

Technical characteristics

RoHS compliant

Identification	Part number	Drawing (dimensions in mm)
Han® HPR enlarged, Frame, for up to 8 single modules, A ... H, Pack contents: 2x M4 screw, 2x washer SK S4, 4x cheese-head screw M6 x 20, 4x cheese-head screw M6 x 30, 4x washer SK S6 	09 11 000 9935	 Tightening torque Fixing screws M6: 10 Nm Tightening torque Screws M4: 1.5 Nm
Han® HPR enlarged, Frame, for up to 8 single modules, a ... h, Pack contents: 2x M4 screw, 2x washer SK S4, 4x cheese-head screw M6 x 20, 4x cheese-head screw M6 x 30, 4x washer SK S6 	09 11 000 9936	 Tightening torque Fixing screws M6: 10 Nm Tightening torque Screws M4: 1.5 Nm
Han® HPR EasyCon, Frame, for up to 8 single modules, A ... H, Pack contents: 2x M4/M5 distance bolts (A/F 7), 2x M5/M6 distance bolts (A/F 7), 4x M4 screw, 4x washer SK S4 	09 40 024 9931	 Tightening torque Distance bolt 6 Nm Tightening torque Fixing screws M4: 1.5 Nm Tightening torque M4: 1.5 Nm

Identification	Part number	Drawing (dimensions in mm)
Han® HPR EasyCon, Frame, for up to 8 single modules, a ... h, Pack contents: 2x M4/M5 distance bolts (A/F 7), 2x M5/M6 distance bolts (A/F 7), 4x M4 screw, 4x washer SK S4 	09 40 024 9932	 Tightening torque Distance bolt 6 Nm Tightening torque Fixing screws M4: 1.5 Nm Tightening torque M4: 1.5 Nm

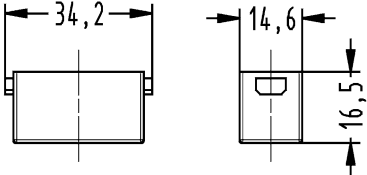
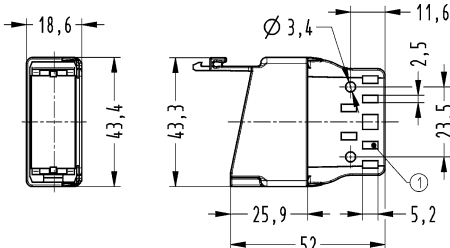
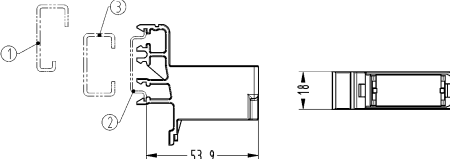
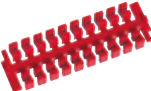
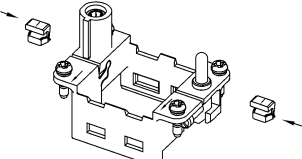
Modu-
lar

Technical characteristics

Material (insert) Polycarbonate (PC)
Colour (insert) RAL 7032 (pebble grey)
Material (locking) Polycarbonate (PC)

Technical characteristics

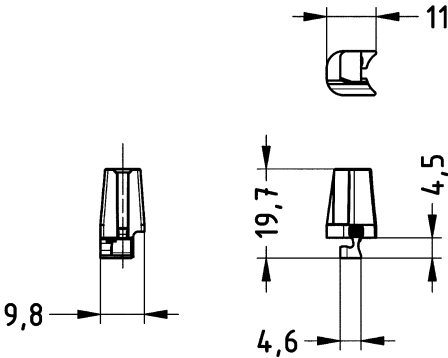
Material (accessories) Thermoplastic
Material flammability class acc. V-0
to UL 94
RoHS compliant

Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Han® Dummy module 	09 14 000 9950	
Han-Modular®, Module locking system, With strain relief, Pack contents: 1 module locking system 	09 14 000 0312	 ① For cable ties with max. 5 mm width
Han-Modular®, Module locking system, for rail, Pack contents: 1 module locking system 	09 14 000 0313	 ① G-rail IEC 60715-G32 ② Rail IEC 60715-35 x 7.5 with 1 mm thick- ness or -35 x 15 with 1.5 mm thickness ③ C-rail IEC 60715-C30
Han-Modular®, Fixing, for Han-Modular® hinged frames, Pack contents: 20 pieces per frame 	09 14 000 9960	 to fix the pre-assembled hinged frames



Modu-
lar

Features	Technical characteristics										
• Applicable as a guiding element for electrical power and signal modules in the Han-Modular® hinged frame plus • Considerable time saving assembly compared to conventional guide pins / bushes • Colour coding with 6 different colours	<table><tr><td>Limiting temperature</td><td>-40 ... +125 °C</td></tr><tr><td>Material (accessories)</td><td>Polycarbonate (PC)</td></tr><tr><td>Colour (accessories)</td><td>Grey, Red, Blue, Black, Yellow, Green</td></tr><tr><td>Material flammability class acc. to UL 94</td><td>V-0</td></tr><tr><td>RoHS</td><td>compliant</td></tr></table>	Limiting temperature	-40 ... +125 °C	Material (accessories)	Polycarbonate (PC)	Colour (accessories)	Grey, Red, Blue, Black, Yellow, Green	Material flammability class acc. to UL 94	V-0	RoHS	compliant
Limiting temperature	-40 ... +125 °C										
Material (accessories)	Polycarbonate (PC)										
Colour (accessories)	Grey, Red, Blue, Black, Yellow, Green										
Material flammability class acc. to UL 94	V-0										
RoHS	compliant										

Identification		Part number	Drawing (dimensions in mm)
Han-Modular®, Guide element, Han-Modular® Guard, for Han-Modular® hinged frames	Black Blue Green Grey Red Yellow	09 14 000 9993 09 14 000 9992 09 14 000 9995 09 14 000 9990 09 14 000 9991 09 14 000 9994	

Technical characteristics

Material (accessories) Zinc die-cast
RoHS compliant with exemption

Details

PE connection (0.75 ... 2.5 mm²) with cable shoe

Identification

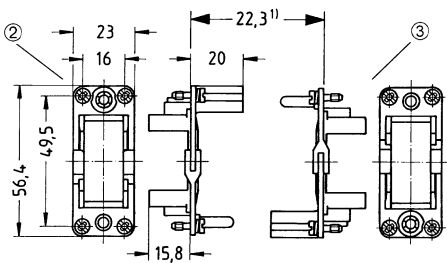
Frame,
for 1 module,
In housing Han® 10 A



Part number

09 14 000 0304

Drawing
(dimensions in mm)



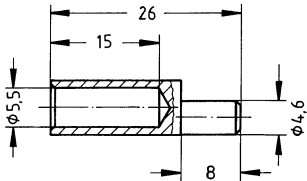
- ① Distance max. 23.5 mm
- ② Hood
- ③ Housing

Technical characteristics

Material (contacts)Copper alloy

Technical characteristics

RoHScompliant

Identification	Conductor cross-section (mm ²)	Part number	Drawing (dimensions in mm)
Han-Modular®, Cable shoe, for PE extension  for hoods/housings high construction only	16	09 14 000 9912	 Please use pressing tools for non-insulated cable shoes following DIN 46230 with 16 mm² range (eg. K25, co. Klauke)