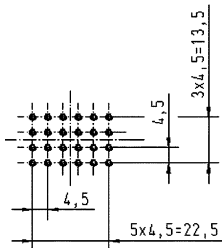


Contents	Page
Han-Fast® Lock	Han 20.11
PCB adapter for Han® C module	Han 20.13
PCB adapter for Han DD®	Han 20.14
PCB adapter for Han® DDD module.....	Han 20.17
PCB adapter for Han® 40 A Axial module.....	Han 20.19
PCB adapter for Han E®	Han 20.20
PCB adapter for Han® 40 EEE	Han 20.21
PCB adapter for Han® Q 4/2	Han 20.22
PCB adapter for Han® Q 5/0	Han 20.25
PCB adapter for Han® Q 7/0	Han 20.28
PCB adapter for Han® Q 8/0	Han 20.31
PCB adapter for Han® Q 12/0	Han 20.34

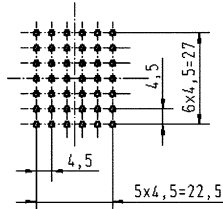
Layout of PCB

PCB

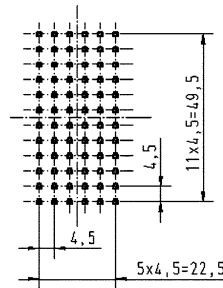
Han[®] 24 DD



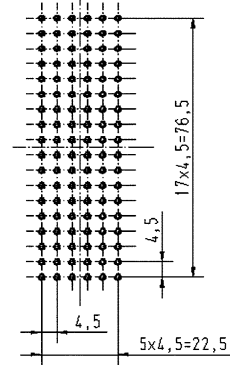
Han[®] 42 DD



Han[®] 72 DD



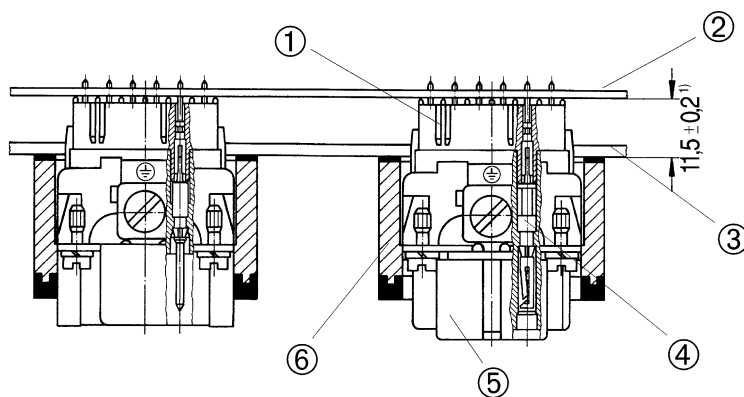
Han[®] 108 DD



Recommended hole diameter:

0.8 mm

Assembly situation

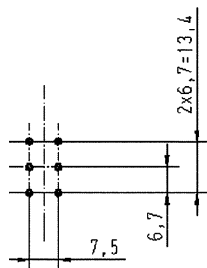


- ① PCB adapter
- ② Printed circuit board (PCB)
- ③ Switch board panel
- ④ Han DD[®] double contact
- ⑤ Han DD[®] insert
- ⑥ Han[®] B bulkhead mounted housing

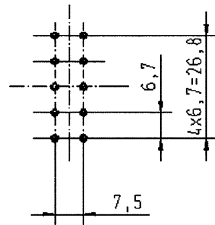
1) for Han[®] B EMC housings spacing of 12.5 ± 0.2 mm is necessary as no flange seal is used

Layout of PCB

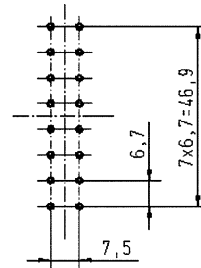
Han® 6 E



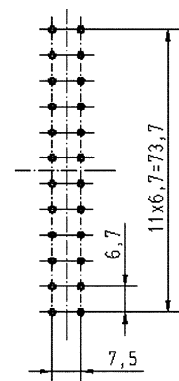
Han® 10 E



Han® 16 E

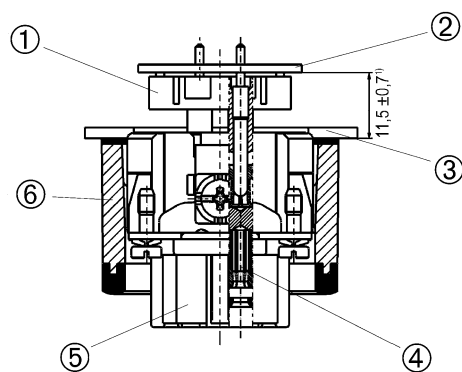


Han® 24 E



PCB

Assembly situation



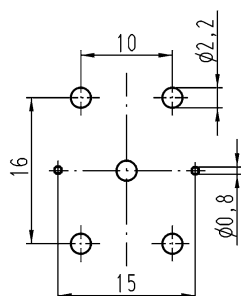
- ① PCB adapter
- ② Printed circuit board (PCB)
- ③ Switch board panel
- ④ Han E® double contact
- ⑤ Han E® insert
- ⑥ Han® B bulkhead mounted housing

¹⁾ for Han® B EMC housings spacing of 12.5 ± 0.7 mm is necessary as no flange seal is used

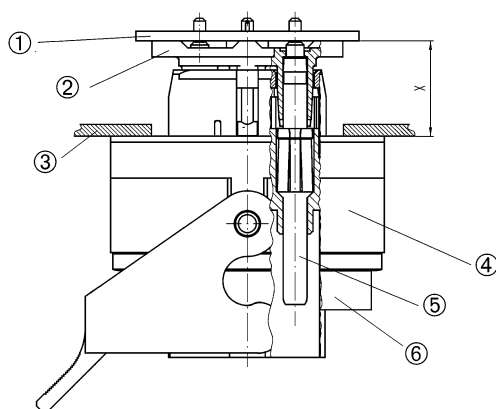
Layout of PCB

PCB

Dimensions in mm



Assembly situation

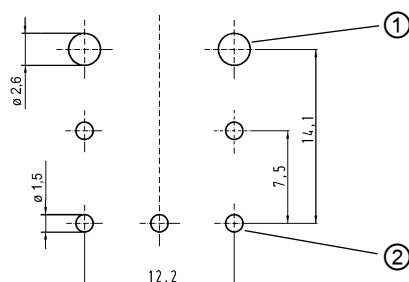


X = 16⁺¹ with signal contact or 16⁺² without signal contact

- ① Printed circuit board (PCB)
- ② PCB adapter
- ③ Switch board panel
- ④ Han-Compact® bulkhead mounted housing
- ⑤ Han® C double contact
- ⑥ Han® Q 4/2 insert

Layout of PCB

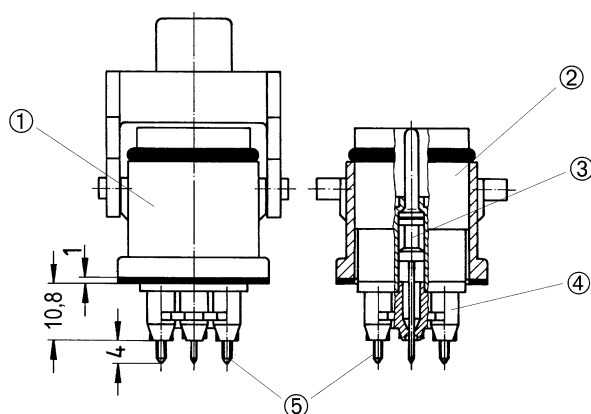
Dimensions in mm



- ① Recommended hole diameter: 2.6 mm
- ② Recommended hole diameter: 1.5 mm

PCB

Assembly situation

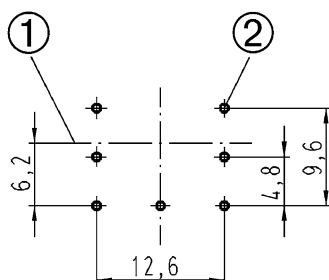


- ① Han® 3 A bulkhead mounting housing
- ② Han® Q 5/0
- ③ Solder contacts
- ④ PCB adapter
- ⑤ Connection to printed circuit board

Layout of PCB

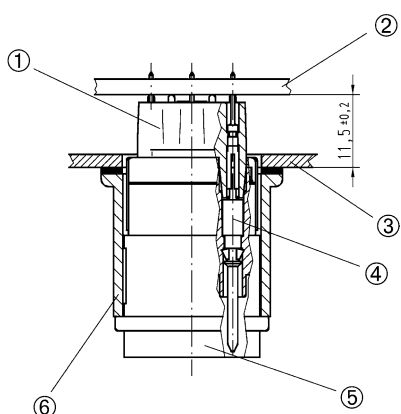
PCB

Dimensions in mm



- ① Median plane of the housing
- ② Recommended hole diameter:
0,8 mm

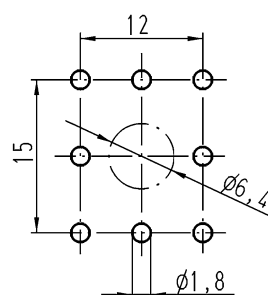
Assembly situation



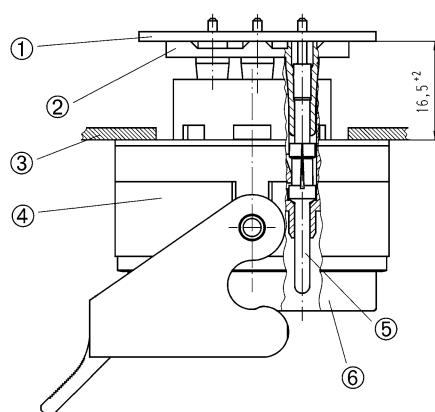
- ① PCB adapter
- ② Printed circuit board (PCB)
- ③ Switch board panel
- ④ Han D® double contact
- ⑤ Han® Q 7/0 Insert
- ⑥ Han® 3 A bulkhead mounting
housing

Layout of PCB

Dimensions in mm



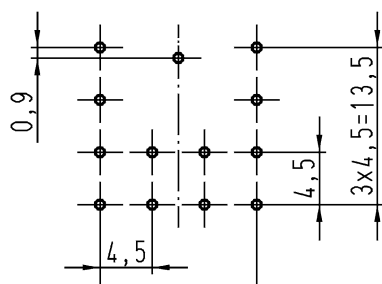
Assembly situation



- ① Printed circuit board (PCB)
- ② PCB adapter
- ③ Switch board panel
- ④ Han-Compact® bulkhead mounted housing
- ⑤ Han E® double contact
- ⑥ Han® Q 8/0 Insert

Layout of PCB

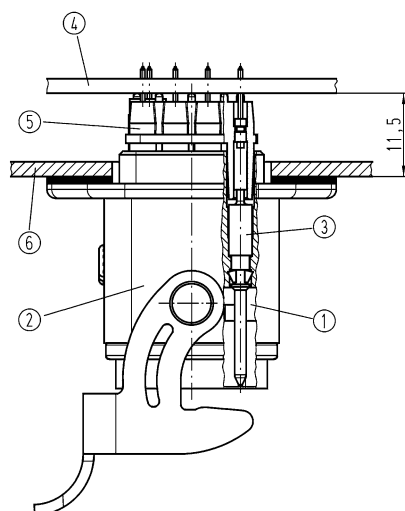
PCB



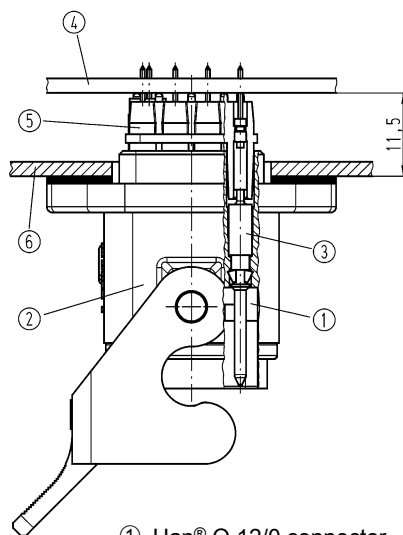
Dimensions in mm
Recommended hole diameter: 0.8 mm

Assembly situation

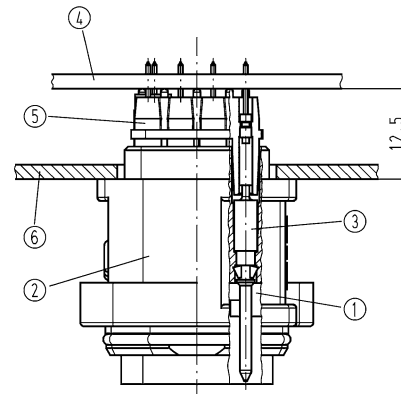
Han® 3 A Standard / EMC



Han® 3 A plastic



Han® 3 A HPR



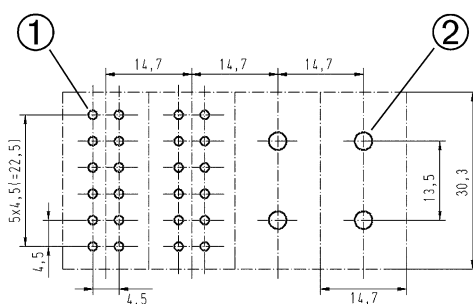
- ① Han® Q 12/0 connector
- ② Han® 3 A housing bulkhead mounting
- ③ R15-double contact

- ④ Printed circuit board (PCB)
- ⑤ PCB adapter
- ⑥ Switch board panel

Layout of PCB

Dimensions in mm

PCB

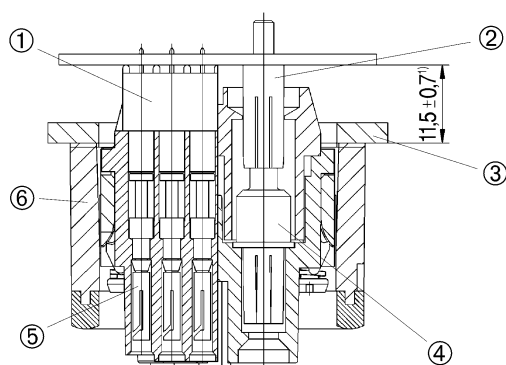


Han DD® module

Han® 40 A module

- ① Recommended hole diameter: 0.8 mm
- ② Recommended hole diameter: 3.2 mm

Assembly situation

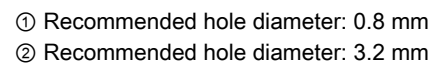


- ① Han DD® PCB-adapter
- ② Han® C solder contact
- ③ Switch board panel
- ④ Module for connection to printed circuit board
- ⑤ Han D® double contact
- ⑥ Han® B bulkhead mounted housing

¹⁾ for Han® B EMC housings spacing of 12.5 ± 0.7 mm is necessary as no flange seal is used

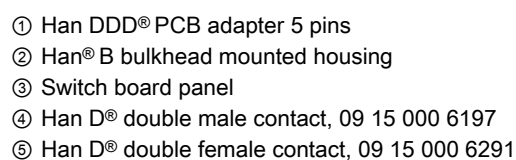
Dimensions in mm

PCB



Han® DDD module Han® DD module Han® 70 A module

Dimensions in mm



1) for Han® B EMV hood and housing spacing of 12.5 ± 0.7 mm is necessary as no flange seal is used.

For further information and Han-Modular® frames please refer to chapter 06 (Han-Modular®)

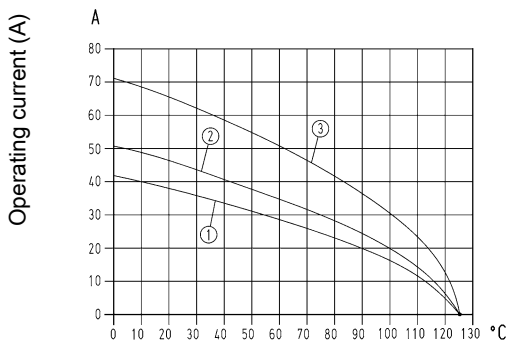
Features

- Solder free PCB termination
- PCB contact with locking element
- Machine processing
- Flexible in terms of applications
- Practical and easy handling
- Fast assembly to PCB
- Locking directly on the PCB

Technical characteristics

Contact resistance	≤2 mΩ
Material (locking)	Copper alloy
Surface (locking)	Passivated
Material (contacts)	Copper alloy
RoHS	compliant with exemption

Derating



Ambient temperature (°C)

- ① Conductor cross-section 4 mm²
- ② Conductor cross-section 6 mm²
- ③ Conductor cross-section 10 mm²

Specifications and approvals

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

PCB

Details

PCB thickness 1.6 ... 3.2 mm

Clearance and creepage distances have to be considered for the printed circuit board

Finished hole d= 4.4 mm +0.05/-0.04

The new connection of wires to the PCB offers optimized PCB design, combined with outstanding contact qualities.

The Han-Fast® Lock is flexible and allows a fast and simple PCB connection. The PCB has one drilled hole and a pad.

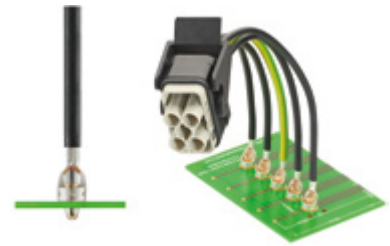
The inner surface of the plated drilled hole serves as the interface. The Han-Fast® Lock is simply inserted into the through-plated PCB hole. The locking pin is pushed in and hence locks the contact into position.

The solder free connection technique is easy to handle and to operate. Maintenance has been made simple with the facility to detach the contact.

Han-Fast® Lock also supports SMD assembly of the PCB.

- Current up to 60 Amps
- Standard drilled hole with pad
- Position independent of connector
- Solder free PCB termination
- Easy locking solution

PCB

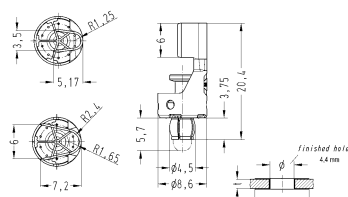


Identification	Conductor cross-section (mm ²)	Part number	Drawing (dimensions in mm)
----------------	--	-------------	----------------------------

Han-Fast® Lock,
PCB contact,
With pin,
Pack contents:
Single contact
Contact surface:
Silver plated

1.5 ... 2.5
4 ... 6
10

09 08 000 7122
09 08 000 7123
09 08 000 7124

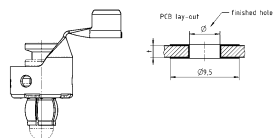


Stripping length 7.5 mm

Han-Fast® Lock,
PCB contact,
With pin,
Angled,
Pack contents:
Single contact
Contact surface:
Silver plated

1.5 ... 2.5
4 ... 6
10

09 08 000 7222
09 08 000 7223
09 08 000 7224

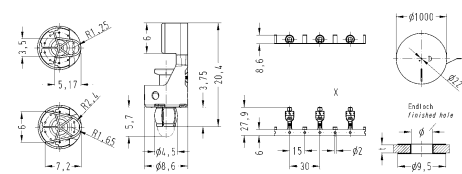


Stripping length 7.5 mm

Han-Fast® Lock,
PCB contact,
With pin,
Pack contents:
2300 pieces on reel
Contact surface:
Silver plated

1.5 ... 2.5
4 ... 6
10

09 08 000 6122
09 08 000 6123
09 08 000 6124



Stripping length 7.5 mm

Technical characteristics

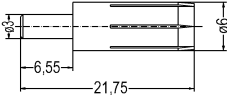
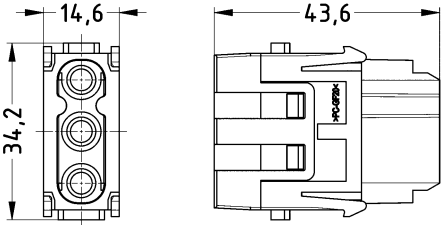
Rated current	40 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Material (insert)	Polycarbonate (PC)
Material (contacts)	Copper alloy

Technical characteristics

RoHScompliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han® C, PCB contact, Contact surface: Silver plated	09 32 000 6295		
 PCB adapter, In the Han® C module		09 14 003 2710	

Features

- Robust design
- Suitable for standard and EMC hoods and housings
- Low wiring costs
- High density of contacts

Technical characteristics

Rated current	7.5 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Material (insert)	Polyamide (PA)
Material (contacts)	Copper alloy
RoHS	compliant with exemption

Specifications and approvals

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

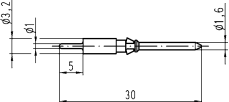
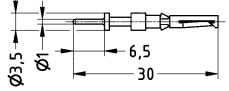
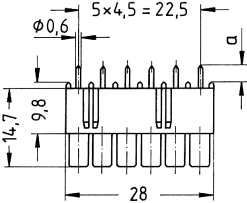
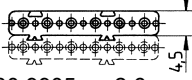
Details

Han DD® crimp inserts see chapter Han 02

Modules see chapter Han 06

Han® B bulkhead mounted housings see chapter Han 31

Crimping tools see chapter Han 90

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han D®, PCB contact, Contact surface: Silver plated 	09 15 000 6191	09 15 000 6291	 
PCB adapter, In the Han DD® crimp insert, In the Han DD® module, In the Han® DDD module (different electrical data: 7.5 A 160 V 2.5 kV 3)  for PCB's up to 1.6 mm	09 16 000 9905	09 16 000 9905	  09 16 000 9905 a= 2.6 09 16 000 9908 a= 3.4
PCB adapter, In the Han DD® crimp insert, In the Han DD® module, In the Han® DDD module (different electrical data: 7.5 A 160 V 2.5 kV 3)  for PCB's up to 2.4 mm	09 16 000 9908	09 16 000 9908	

PCB adapter for Han DD[®] module



PCB

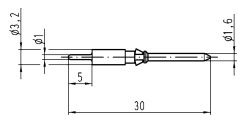
Identification	Part number		Drawing (dimensions in mm)
	Male	Female	

Han D[®],
PCB contact,
Contact surface:
Silver plated



09 15 000 6191

09 15 000 6294



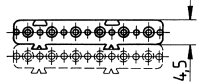
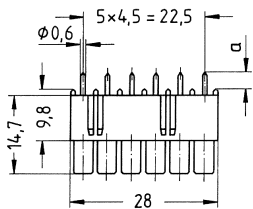
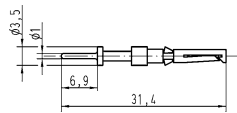
PCB adapter,
In the Han DD[®] crimp insert,
In the Han DD[®] module,
In the Han[®] DDD module (different electrical
data: 7.5 A 160 V 2.5 kV 3)



for PCB's up to 1.6 mm

09 16 000 9905

09 16 000 9905



09 16 000 9905 a= 2.6
09 16 000 9908 a= 3.4

PCB adapter,
In the Han DD[®] crimp insert,
In the Han DD[®] module,
In the Han[®] DDD module (different electrical
data: 7.5 A 160 V 2.5 kV 3)



for PCB's up to 2.4 mm

09 16 000 9908

09 16 000 9908

Features

- Robust design
- Suitable for standard and EMC hoods and housings
- Low wiring costs
- High density of contacts

Technical characteristics

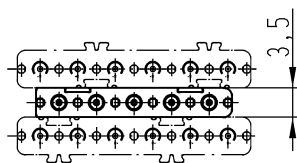
Rated current	7.5 A
Rated voltage	160 V
Rated impulse voltage	2.5 kV
Pollution degree	3
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Material (insert)	Polyamide (PA)
Material (contacts)	Copper alloy
RoHS	compliant with exemption

Specifications and approvals

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

Details

Modules see chapter Han 06
Han® B bulkhead mounted housings see chapter Han 31
Crimping tools see chapter Han 90



For a 17-pin PCB termination with the Han® DDD module two 6-pin and one 5-pin PCB adapters are necessary.

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	

Han D®,
PCB contact,
Contact surface:
Silver plated



PCB adapter,
In the Han DD® crimp insert,
In the Han DD® module,
In the Han® DDD module (different electrical
data: 7.5 A 160 V 2.5 kV 3)



for PCB's up to 1.6 mm

PCB adapter,
In the Han DD® crimp insert,
In the Han DD® module,
In the Han® DDD module (different electrical
data: 7.5 A 160 V 2.5 kV 3)



for PCB's up to 2.4 mm

PCB adapter,
5-pin,
In the Han® DDD module



for PCB's up to 1.6 mm

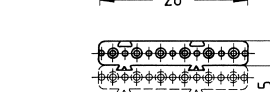
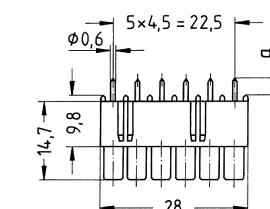
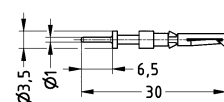
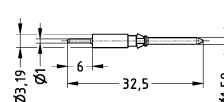
PCB adapter,
5-pin,
In the Han® DDD module



for PCB's up to 2.4 mm

09 15 000 6197

09 15 000 6291



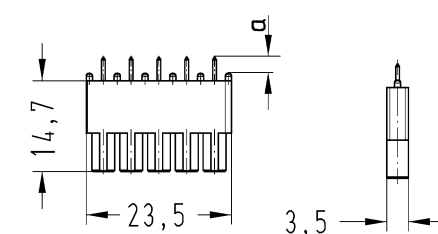
09 16 000 9905 a= 2.6
09 16 000 9908 a= 3.4

09 16 000 9908

09 16 000 9908

09 16 000 9915

09 16 000 9915



09 16 000 9915 a= 2.6
09 16 000 9918 a= 3.4

09 16 000 9918

09 16 000 9918

Features

- Modular assembly
- Robust design
- Suitable for standard and EMC hoods and housings
- Low wiring costs

Technical characteristics

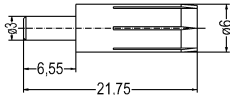
Rated current	40 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Material (insert)	Polycarbonate (PC)
Material (contacts)	Copper alloy
RoHS	compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984

Details

Hinged frames see chapter Han 06

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han® C, PCB contact, Contact surface: Silver plated	09 32 000 6295		
PCB adapter, In the Han® 40 A Axial module	09 14 002 2603	09 14 002 2703	

PCB

Features

- Robust design
- Suitable for standard and EMC hoods and housings
- Low wiring costs
- Counter connector available with screw, crimp or cage clamp termination

Technical characteristics

Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Material (insert)	Polycarbonate (PC)
Material (contacts)	Copper alloy
RoHS	compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984

Details

Han E® crimp inserts see chapter Han 03

Hoods/Housings see chapter Han 31

Crimping tools see chapter Han 90

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	

Han E®,
PCB contact,
Contact surface:
Silver plated

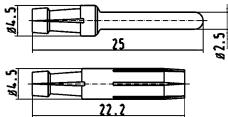


PCB adapter,
In the Han E® crimp insert



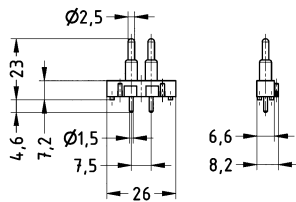
09 33 000 6180

09 33 000 6280



09 33 000 9996

09 33 000 9996



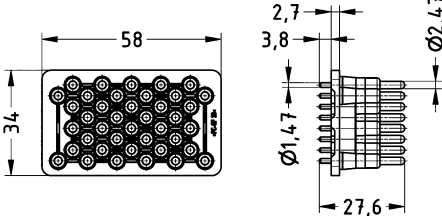
Number of contacts

40

16 A 500 V 6 kV 3

PCB

Technical characteristics		Technical characteristics	
Number of contacts	40	Pollution degree	3
Rated current	16 A	Limiting temperature	-40 ... +125 °C
Rated voltage	500 V	Material (insert)	Polycarbonate (PC)
Rated impulse voltage	6 kV	Material (contacts)	Copper alloy
		RoHS	compliant with exemption

Identification	Size	Part number		Drawing (dimensions in mm)
		Male	Female	
PCB adapter, In the Han® 40 EEE crimp insert, Contact surface: Silver plated 	16 B	09 33 000 9880	09 33 000 9880	

Features

- Robust design
- Low wiring costs
- High density of contacts
- Suitable for Han-Compact® hoods and housings

Technical characteristics

Rated current	30 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	2
Rated current (signal)	7.5 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	2
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (insert)	Liquid crystal polymer (LCP)
Material (hood/housing)	Polycarbonate (PC)
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide (PA)
Colour (locking)	RAL 9005 (jet black)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant with exemption, compliant

Specifications and approvals

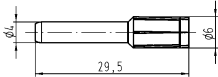
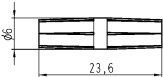
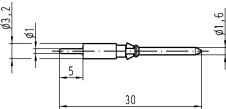
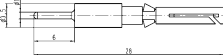
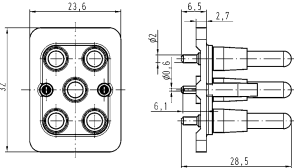
EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL



Details

Han® Q inserts see chapter Han 13

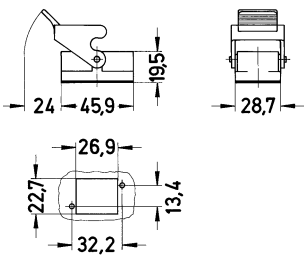
Crimping tools see chapter Han 90

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han® C, PCB contact, Contact surface: Silver plated  Han D®, PCB contact, Contact surface: Silver plated  PCB adapter, In the Han® Q 4/2  for PCB's up to 2.4 mm	09 32 000 6180	09 32 000 6280	    



Hoods/housings for industrial applications
Single locking lever

PCB

Identification	Part number	Drawing (dimensions in mm)
Han-Compact®, Bulkhead mounted housing, Straight, IP65 	09 12 008 0327	 Technical drawing showing three views of the PCB adapter with dimensions in mm: Side view: 24, 45,9, 19,5 Front view: 28,7 Top view: 26,9, 22,7, 32,2, 13,4

Features

- Robust design
- Suitable only for EMC housings size Han® 3 A
- Additional robust and secure PE-connection between housing and PCB

Technical characteristics

Rated current	10 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP44, IP65 / IP67, with seal screw 09 20 000 9918
Type rating acc. to UL 50 / UL 50E	12
Material (insert)	Polycarbonate (PC)
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Uncoated
Colour (hood/housing)	Unpainted
Material (seal)	PTFE
Material (locking)	Steel
Surface (locking)	Zinc plated
Material (contacts)	Copper alloy
RoHS	compliant with exemption, compliant

Specifications and approvals

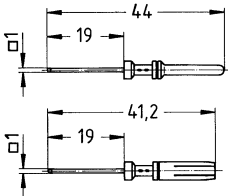
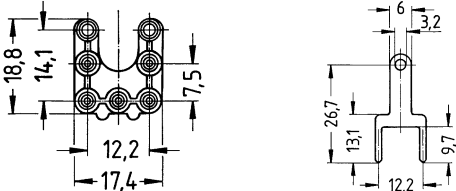
EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL



Details

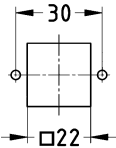
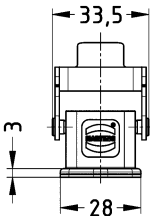
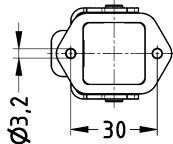
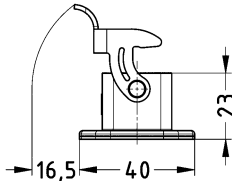
Han® Q inserts see chapter Han 13
Crimping tools see chapter Han 90

PCB

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han E®, PCB contact, Contact surface: Silver plated 	09 33 000 6195	09 33 000 6295	
PCB adapter, 5-pin, In the Han® Q 5/0  for PCB's up to 2.4 mm	09 12 000 9905	09 12 000 9905	 Adapter PE contact panel

Hoods/Housings for higher EMC requirements
Single locking lever

PCB

Identification	Part number	Drawing (dimensions in mm)
Han® EMC, Bulkhead mounted housing, Straight, for PCB termination with Han® Q 5/0, IP44, IP65 / IP67 with seal screw 09 20 000 9918  09 62 003 0304    		



Features

- Robust design
- Suitable for standard and EMC hoods and housings
- High density of contacts

Technical characteristics

Rated current	7.5 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP44, IP65 / IP67, with seal screw 09 20 000 9918
Type rating acc. to UL 50 / UL 50E	12
Material (insert)	Polycarbonate (PC)
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 7037 (dust grey)
Material (seal)	NBR
Material (locking)	Steel
Surface (locking)	Zinc plated
Material (contacts)	Copper alloy
RoHS	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

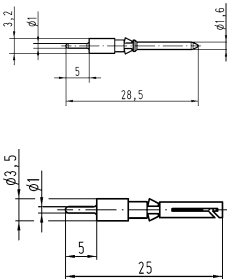
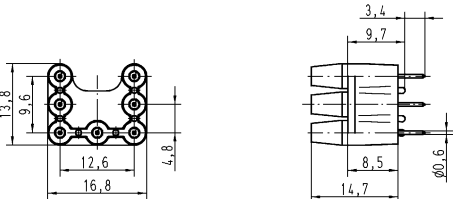


Details

Han® Q inserts see chapter Han 13

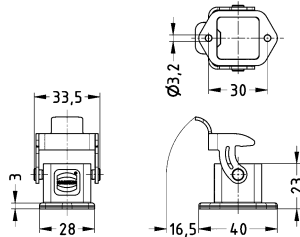
Crimping tools see chapter Han 90

PCB

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han D®, PCB contact, Contact surface: Silver plated	09 15 000 6190	09 15 000 6290	
PCB adapter, In the Han® Q 7/0		09 12 000 9908	
for PCB's up to 2.4 mm			

Standard Hoods/housings for industrial applications
Single locking lever

PCB

Identification	Part number	Drawing (dimensions in mm)
Han A®, Bulkhead mounted housing, Straight, IP44, IP65 / IP67 with seal screw 09 20 000 9918  09 20 003 0301  Panel cut out 22 x 22 mm		

Features

- Robust design
- Suitable for Han-Compact® hoods and housings
- Low wiring costs
- High density of contacts

Technical characteristics

Rated current	16 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	2
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (insert)	Liquid crystal polymer (LCP)
Material (hood/housing)	Polycarbonate (PC)
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide (PA)
Colour (locking)	RAL 9005 (jet black)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant with exemption, compliant

Specifications and approvals

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

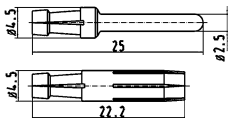
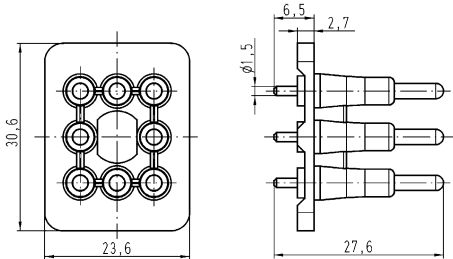


Details

Han® Q inserts see chapter Han 13

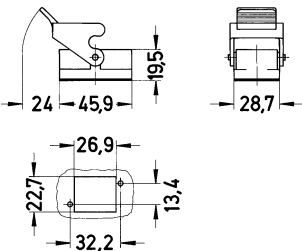
Crimping tools see chapter Han 90

PCB

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han E®, PCB contact, Contact surface: Silver plated 	09 33 000 6180	09 33 000 6280	
PCB adapter, In the Han® Q 8/0  for PCB's up to 1.6 mm	09 12 008 9901		

Hoods/housings for industrial applications
Single locking lever

PCB

Identification	Part number	Drawing (dimensions in mm)											
Han-Compact®, Bulkhead mounted housing, Straight, IP65 	09 12 008 0327	<table><tr><td>Side profile dimensions:</td><td>24</td><td>45,9</td><td>19,5</td></tr><tr><td>Front view dimensions:</td><td>28,7</td></tr><tr><td>Top view dimensions:</td><td>22,7</td><td>26,9</td><td>32,2</td><td>13,4</td></tr></table>	Side profile dimensions:	24	45,9	19,5	Front view dimensions:	28,7	Top view dimensions:	22,7	26,9	32,2	13,4
Side profile dimensions:	24	45,9	19,5										
Front view dimensions:	28,7												
Top view dimensions:	22,7	26,9	32,2	13,4									

Features

- Robust design
- Suitable for standard and EMC hoods and housings
- High density of contacts

Technical characteristics

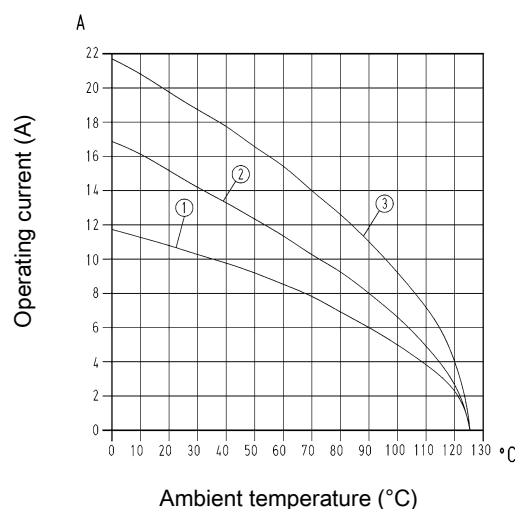
Number of contacts	12
Rated current	7.5 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

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 0.75 mm²
- ② Conductor cross-section 1.5 mm²
- ③ Conductor cross-section 2.5 mm²

Specifications and approvals

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

Details

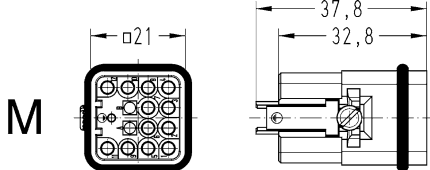
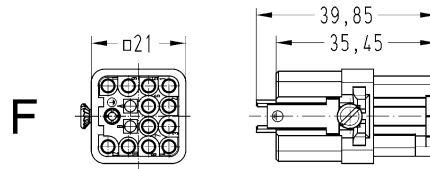
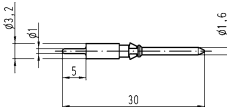
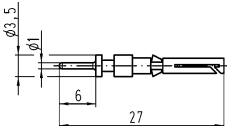
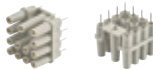
Crimping tools see chapter Han 90

Number of contacts

12+ 

7.5 A 250 V 4 kV 3

PCB

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han® Q, for PCB adapter, Solder termination  Please order contacts separately.	09 12 012 3002	09 12 012 3102	M  F 
Han D®, PCB contact, Contact surface: Silver plated 	09 15 000 6191	09 15 000 6297	 
PCB adapter, In the Han® Q 12/0  for PCB's up to 2.4 mm		09 12 012 9901	