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Han A

Han® 3 A / Han® 4 A

Features

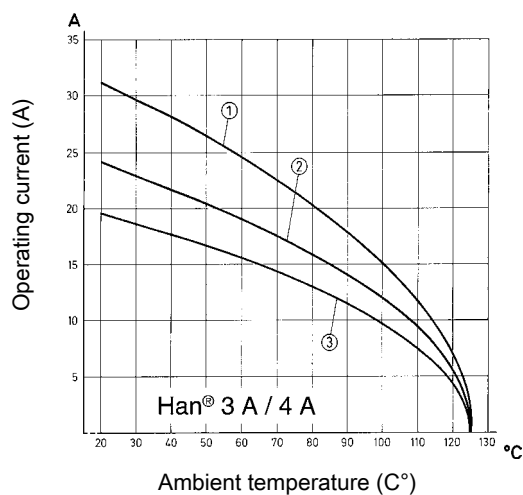
- Innovative Han-Quick Lock® termination technology with reduced wiring times
- No special tools required
- Insert suitable for all metal and plastic hoods and housings of the sizes Han® 3 A
- For currents up to 10 A

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 Wire cross section 2.5 mm²
- ② Wire cross section 1.5 mm²
- ③ Wire cross section 1 mm²

Technical characteristics

Contacts	3, 4
Electrical data acc. to IEC 61984	10 A 230/400 V 4 kV 3
Rated current	10 A
Rated voltage conductor - ground	230 V
Rated voltage conductor - conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
alternative electrical data	10 A 250 V 4 kV 3
Rated voltage acc. to UL	600 V
Insulation resistance	≥10 ¹⁰ Ohm
Limiting temperatures	-40 °C ... 125 °C
Flammability (insert) acc. to UL 94	V 0
Mating cycles	≥500
Tightening torque	0.25 Nm
Flammability (seal) acc. to UL 94	V 0
Degree of protection acc. to IEC 60529	IP65 / IP67
Material (insert)	polycarbonate
Colour (insert)	RAL 7032 (light grey)

Specifications and approvals

IEC 60664-1
IEC 61984



Han® 3 A

Size 3 A



Number of contacts

3+

230/400 V
10 A

Han A

Identification	Wire cross section (mm ²)	Part number		Drawing Dimensions in mm
		male	female	
<p> Han-Quick Lock® Han A®, Han-Quick Lock® termination</p> <p>Blue slide</p>	0.5 – 2.5	09 20 003 2633	09 20 003 2733	
<p> Han-Quick Lock® Han A®, Han-Quick Lock® termination</p> <p>Black slide</p>	0.25 – 1.5	09 20 003 2634	09 20 003 2734	
<p>Han A®, Screw terminal</p>	0.75 – 1.5	09 20 003 2611	09 20 003 2711	<p>Contact arrangement (view from termination side)</p>

Han® 4 A

Size 3 A



Number of contacts

4+

230/400 V
10 A

Han A

Identification	Wire cross section (mm ²)	Part number		Drawing Dimensions in mm
		male	female	
<p> Han-Quick Lock® Han A®, Han-Quick Lock® termination</p> <p>Blue slide</p>	0.5–2.5	09 20 004 2633	09 20 004 2733	<p>Dimensions: 37,5, 32, 23,7, 23,7, 21, 21, 36,7, 31,2</p> <p>Contact arrangement (view from termination side)</p>
<p> Han-Quick Lock® Han A®, Han-Quick Lock® termination</p> <p>Black slide</p>	0.25–1.5	09 20 004 2634	09 20 004 2734	<p>Dimensions: 21, 21, 36,7, 31,2</p> <p>Contact arrangement (view from termination side)</p>
<p>Han A®, Screw terminal</p>	0.75–1.5	09 20 004 2611	09 20 004 2711	<p>Dimensions: 21, 27,7, 27, 21</p> <p>Contact arrangement (view from termination side)</p>

Han® 10 A / Han® 16 A / Han® 32 A

Features

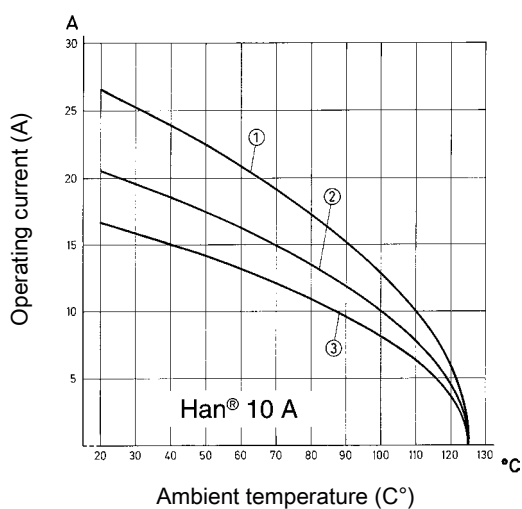
- Small size
- Available in crimp and screw termination
- Screw termination also available with wire protection

Derating

Current carrying capacity

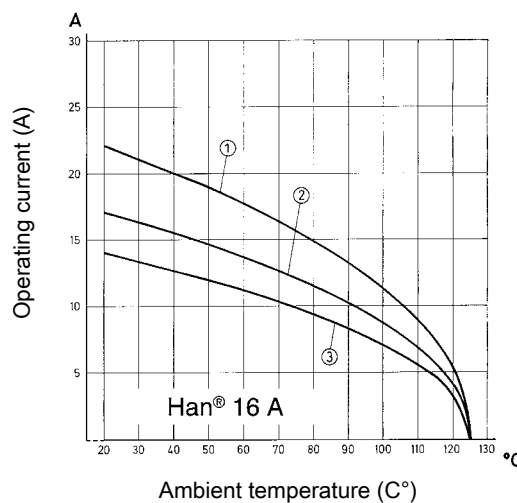
The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the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

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



- ① Wire cross section 2.5 mm²
- ② Wire cross section 1.5 mm²
- ③ Wire cross section 1 mm²

Derating



- ① Wire cross section 2.5 mm²
- ② Wire cross section 1.5 mm²
- ③ Wire cross section 1 mm²

Technical characteristics

Contacts	10, 16, 32
Electrical data acc. to IEC 61984	16 A 250 V 4 kV 3
Rated current	16 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	≥10 ¹⁰ Ohm
Limiting temperatures	-40 °C ... 125 °C
Flammability (insert) acc. to UL 94	V 0
Mating cycles	≥500
Tightening torque	0.5 Nm
Material (insert)	polycarbonate
Colour (insert)	RAL 7032 (light grey)
Material (contact)	copper alloy

Specifications and approvals

IEC 60664-1
IEC 61984



Han A

Han® 10 A

Size 10 A


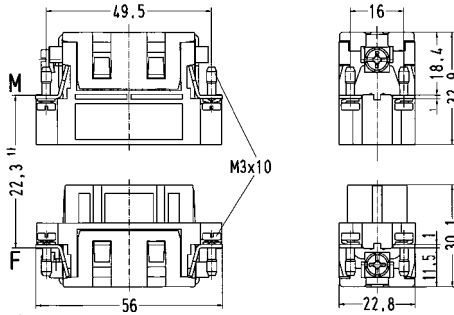

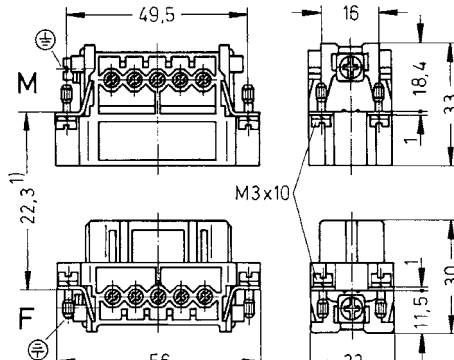

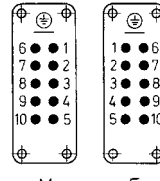
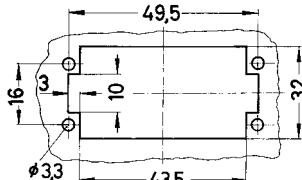


Number of contacts

10+

250 V
16 A

Han A

Identification	Wire cross section (mm²)	Part number		Drawing
		male	female	Dimensions in mm
Han A®, Crimp terminal  Please order crimp contacts separately.		09 20 010 3001	09 20 010 3101	 <p>1) Distance for contact max. 24 mm</p>
Han A®, Screw terminal 	0.75 – 2.5	09 20 010 2612	09 20 010 2812	 <p>1) Distance for contact max. 24 mm</p>
Han A®, Screw terminal, with wire protection 	0.75 – 2.5	09 20 010 2614	09 20 010 2814	 <p> Contact arrangement (view from termination side) </p>  <p>Panel cut out for inserts for use without hoods/housings</p>

Han® 16 A

Size 16 A


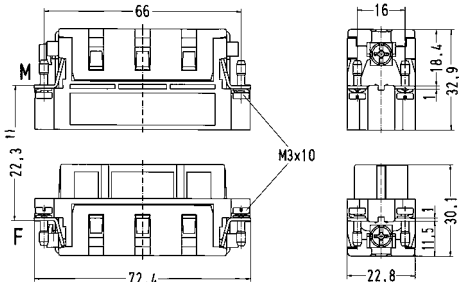

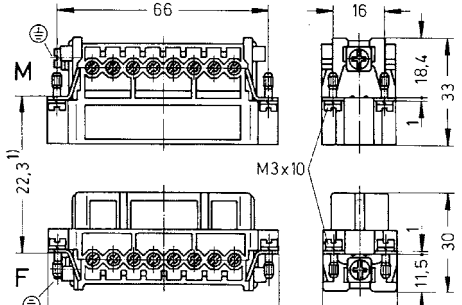

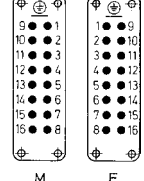
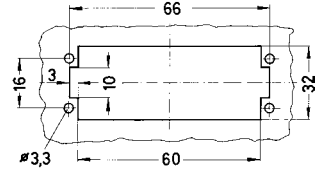


Number of contacts

16+

250 V
16 A

Han A

Identification	Wire cross section (mm²)	Part number male female		Drawing Dimensions in mm
<p>Han A®, Crimp terminal</p>  <p>Please order crimp contacts separately.</p>		09 20 016 3001	09 20 016 3101	 <p>1) Distance for contact max. 24 mm</p>
<p>Han A®, Screw terminal</p> 	0.75 – 2.5	09 20 016 2612	09 20 016 2812	 <p>1) Distance for contact max. 24 mm</p>
<p>Han A®, Screw terminal, with wire protection</p> 	0.75 – 2.5	09 20 016 2614	09 20 016 2814	 <p>M F</p> <p>Contact arrangement (view from termination side)</p>  <p>Panel cut out for inserts for use without hoods/housings</p>

Han® 32 A

Size 32 A

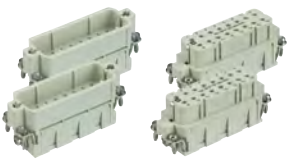
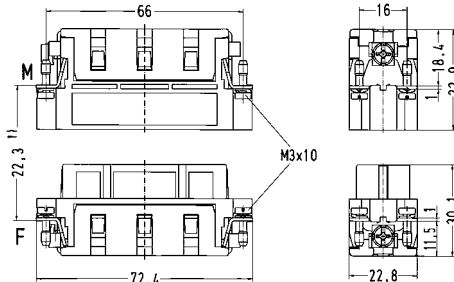
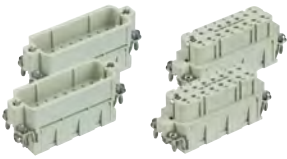
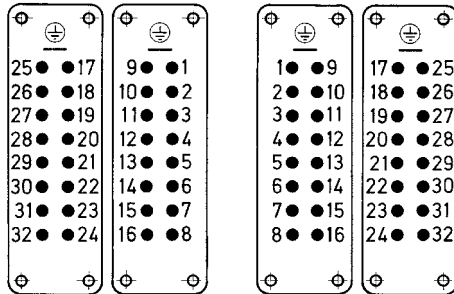
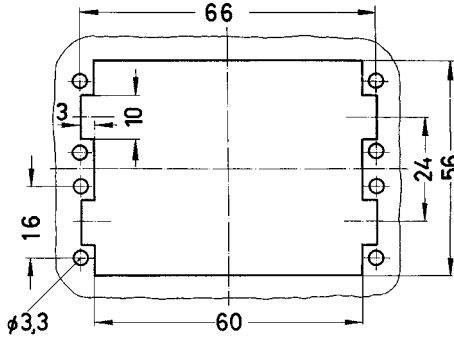


Number of contacts

32+

250 V
16 A

Han A

Identification	Part number		Drawing Dimensions in mm
	male	female	
<p>Han A®, Crimp terminal, 1 - 16</p>  <p>Please order crimp contacts separately. Please order two inserts for a complete assembly!</p>	09 20 016 3001	09 20 016 3101	 <p>1) Distance for contact max. 24 mm</p>
<p>Han A®, Crimp terminal, 17 - 32</p>  <p>Please order crimp contacts separately. Please order two inserts for a complete assembly!</p>	09 20 016 3011	09 20 016 3111	 <p>M F</p> <p>Contact arrangement (view from termination side)</p>  <p>Panel cut out for inserts for use without hoods/housings</p>

Han® 32 A

Size 32 A


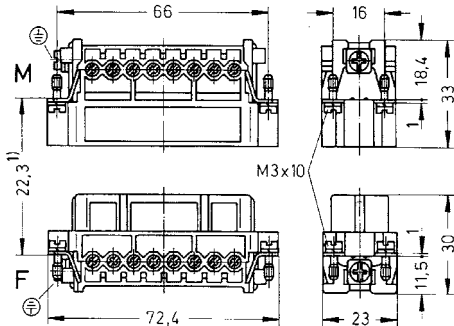

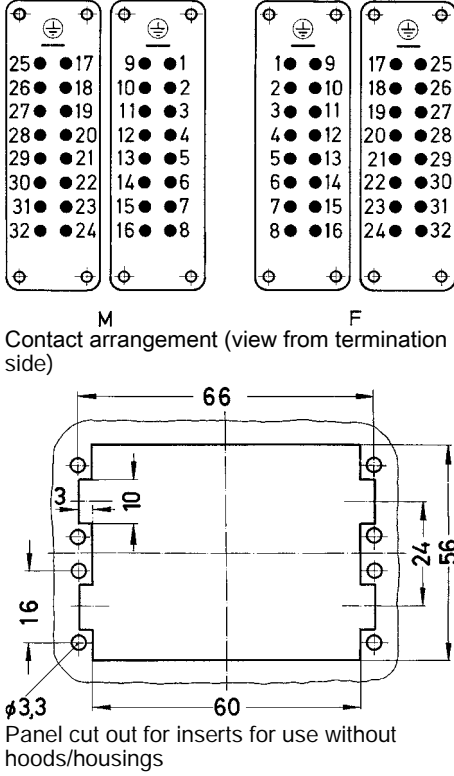


Number of contacts

32+

250 V
16 A

Han A

Identification	Wire cross section (mm²)	Part number male female		Drawing Dimensions in mm
<p>Han A® , Screw terminal, 1 - 16, contact resistance ≤1 mOhm</p>  <p>Please order two inserts for a complete assembly!</p>	0.75 - 2.5	09 20 016 2612	09 20 016 2812	
<p>Han A® , Screw terminal, 17 - 32, contact resistance ≤1 mOhm</p>  <p>Please order two inserts for a complete assembly!</p>	0.75 - 2.5	09 20 016 2613	09 20 016 2813	 <p>1) Distance for contact max. 24 mm</p> <p>Contact arrangement (view from termination side)</p>

Han® 32 A

Size 32 A



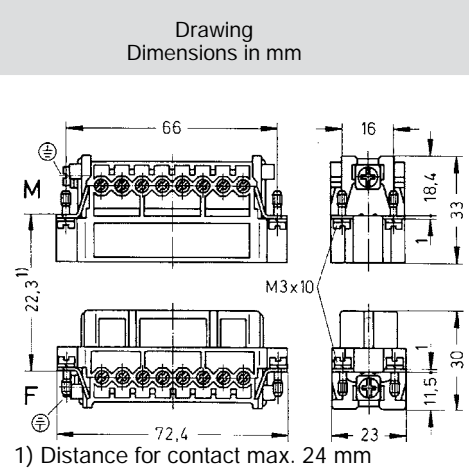
Han A

Identification	Wire cross section (mm ²)	Part number	
		male	female

Han A®,
Screw terminal,
1 - 16,
with wire protection,
contact resistance ≤1 mOhm

Please order two inserts for a complete assembly!

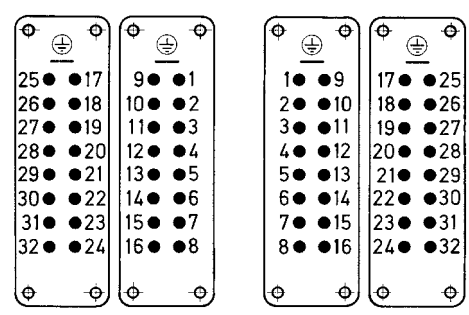
0.75 - 2.5	09 20 016 2614	09 20 016 2814
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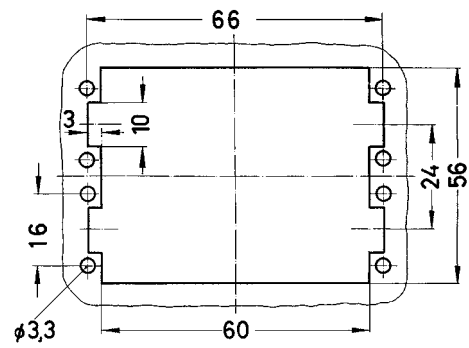
Han A®,
Screw terminal,
17 - 32,
with wire protection,
contact resistance ≤1 mOhm

Please order two inserts for a complete assembly!

0.75 - 2.5	09 20 016 2615	09 20 016 2815
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M F
Contact arrangement (view from termination side)



Panel cut out for inserts for use without hoods/housings

Contacts



Han A

Technical characteristics


Material (contact) copper alloy


Details

Crimping tools see chapter 90

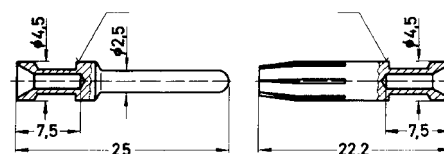
Remarks on the crimp technique

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

Identification	Wire cross section (mm ²)	Part number	
		male	female
Han E [®] , Crimp contact, gold plated contacts, contact resistance ≤1 mOhm 	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

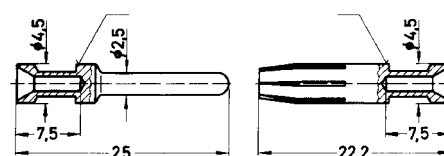
Han E [®] , Crimp contact, silver plated contacts, contact resistance ≤1 mOhm 	0.14 – 0.37	09 33 000 6127	09 33 000 6227
	0.5	09 33 000 6121	09 33 000 6220
	0.75	09 33 000 6114	09 33 000 6214
	1	09 33 000 6105	09 33 000 6205
	1.5	09 33 000 6104	09 33 000 6204
	2.5	09 33 000 6102	09 33 000 6202
	3	09 33 000 6106	09 33 000 6206
	4	09 33 000 6107	09 33 000 6207

Drawing
Dimensions in mm



Identification	Wire gauge	Stripping length
no groove	0.14-0.37 mm ² AWG 26-22	7.5 mm
no groove	0.5 mm ² AWG 20	7.5 mm
1 groove*	0.75 mm ² AWG 18	7.5 mm
1 groove	1 mm ² AWG 18	7.5 mm
2 grooves	1.5 mm ² AWG 16	7.5 mm
3 grooves	2.5 mm ² AWG 14	7.5 mm
wide groove	3 mm ² AWG 12	7.5 mm
no groove	4 mm ² AWG 12	7.5 mm

* on the back crimp collar



Identification	Wire gauge	Stripping length
no groove	0.14-0.37 mm ² AWG 26-22	7.5 mm
no groove	0.5 mm ² AWG 20	7.5 mm
1 groove*	0.75 mm ² AWG 18	7.5 mm
1 groove	1 mm ² AWG 18	7.5 mm
2 grooves	1.5 mm ² AWG 16	7.5 mm
3 grooves	2.5 mm ² AWG 14	7.5 mm
wide groove	3 mm ² AWG 12	7.5 mm
no groove	4 mm ² AWG 12	7.5 mm

* on the back crimp collar

Application



Han A



01
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Wind turbine by ENERCON with Han® 3 A – for a fast and reliable installation.