

Pushing Performance



People | Power | Partnership

HARTING Han[®] M23 Circular Connectors

Han[®] M23 Circular Connectors

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Han[®] M23 Signal



Han® M23 Overview

Features

- Size M23
- High contact density
- Robust hoods and housings for industrial applications
- Assembly requires no tools
- Good EMC properties
- 6 to 19 contacts
- Crimp, solder and solder-in connections

Approvals



Note

For operating voltages over 50 volts, the connector must be used with conductive housing parts, in compliance with the safety directives in DIN VDE 410 / IEC 60364-4-41.

Connectors should not be connected or disconnected while under electrical load.

General information

It is the user's responsibility to check whether the components illustrated in this catalogue comply with different regulations from those stated in special fields of application which we are unable to foresee.

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

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Technical characteristics

Hoods and housings

Material	Copper zinc alloy
Surface	Nickel plated
Seal	NBR
Limiting temperatures	-40 °C +125 °C
Degree of protection and seal in locked position	IP67 / IP69K
Clamping range	3 – 17 mm

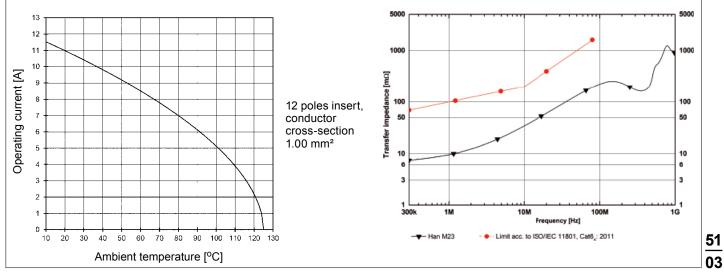
Inserts

Material			Thermoplastic polyamid						
Termination techniquess				Crimp	, sold	er, solder-ir	า		
Number of poles		6	7	9	9	12	17	1	9
Number of contacts		6	7	8	1	12	17	16	3
Contact Ø	mm	2	2	1	2	1	1	1	1.5
Rated current	А	20	20	8	20	8	8	8	10
Rated voltage ¹⁾	V	300 300 200 200 160 ·				1	00		
Test voltage	V	2500	2500	25	00	2500	1500	15	500
Insulation resistance	MΩ	> 10 ¹⁰	> 10 ¹⁰	> 1	0 ¹⁰	> 10 ¹⁰	> 10 ⁶	> '	10 ⁶
Max. contact resistance	mΩ	3	3		3	3	3		3

Derating and EMC diagram

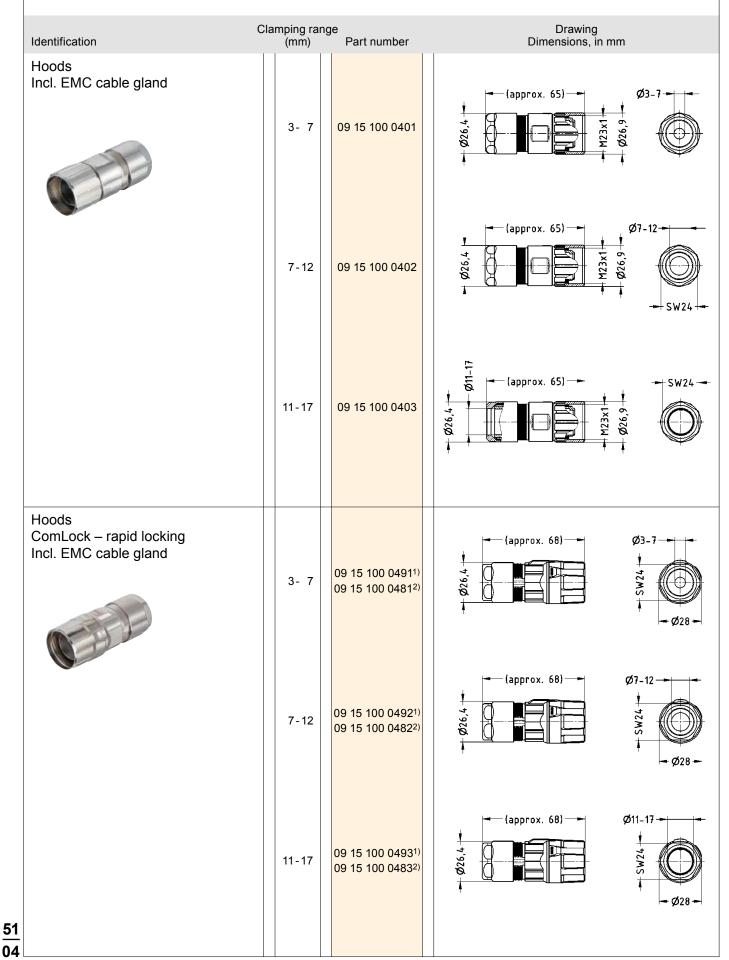
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, non-interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and testing procedures, according to DIN IEC 60512-5-2.



¹⁾ According to DIN VDE 0627, metallic parts which may be touched by a person and may have voltages present under fault conditions must have integral protection.

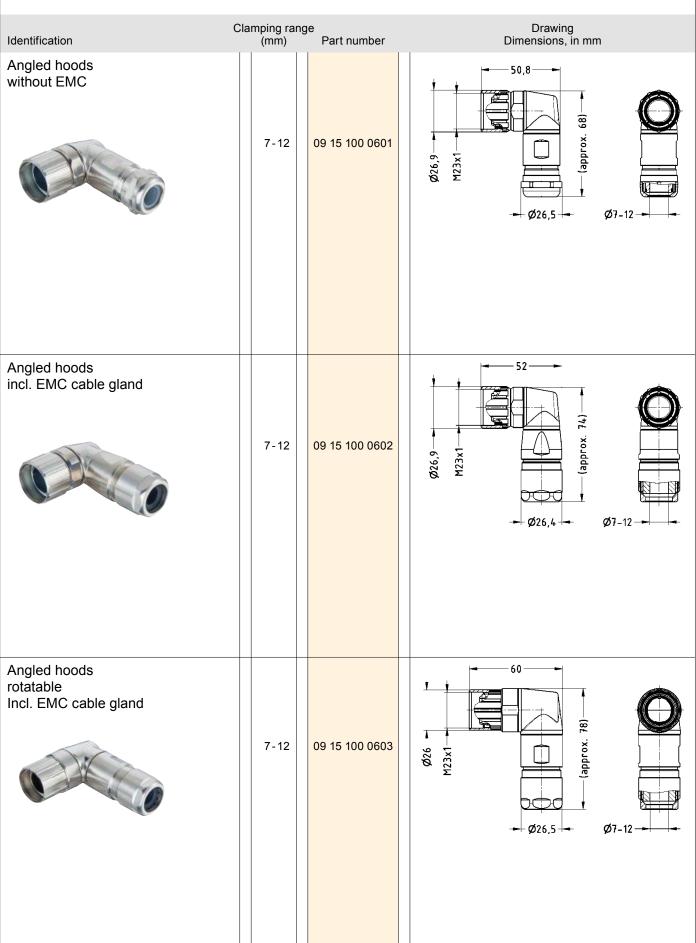
Han[®] M23 Hoods – Signal



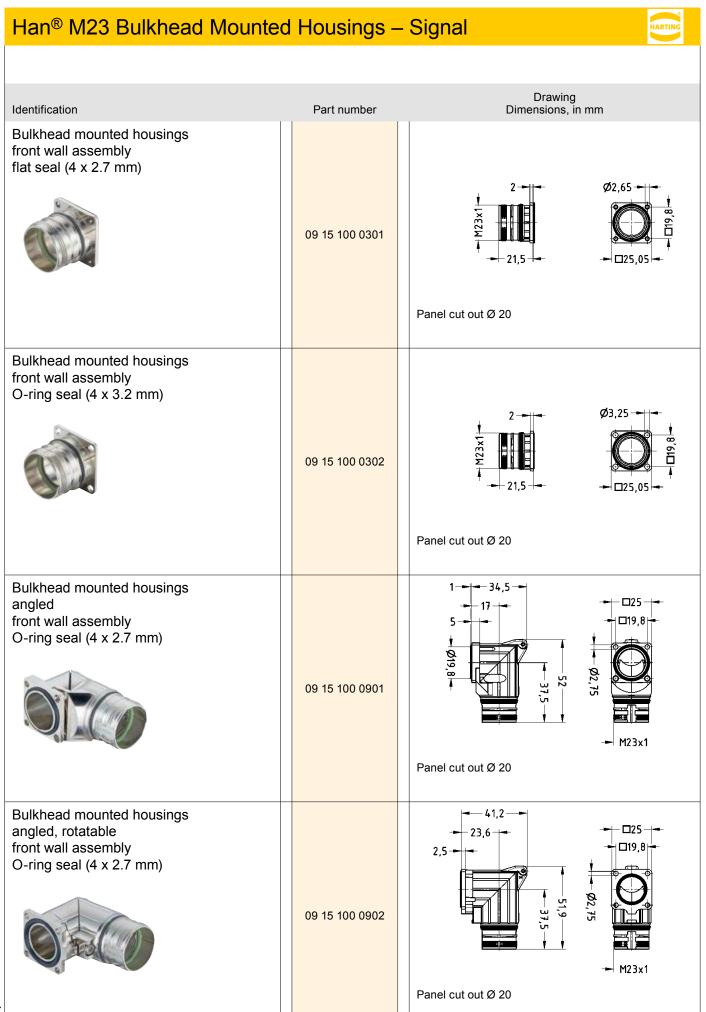
1) fast locking hood for Han® M23 Signal

²⁾ fast locking hood for Speedtec products

Han[®] M23 Hoods – Signal

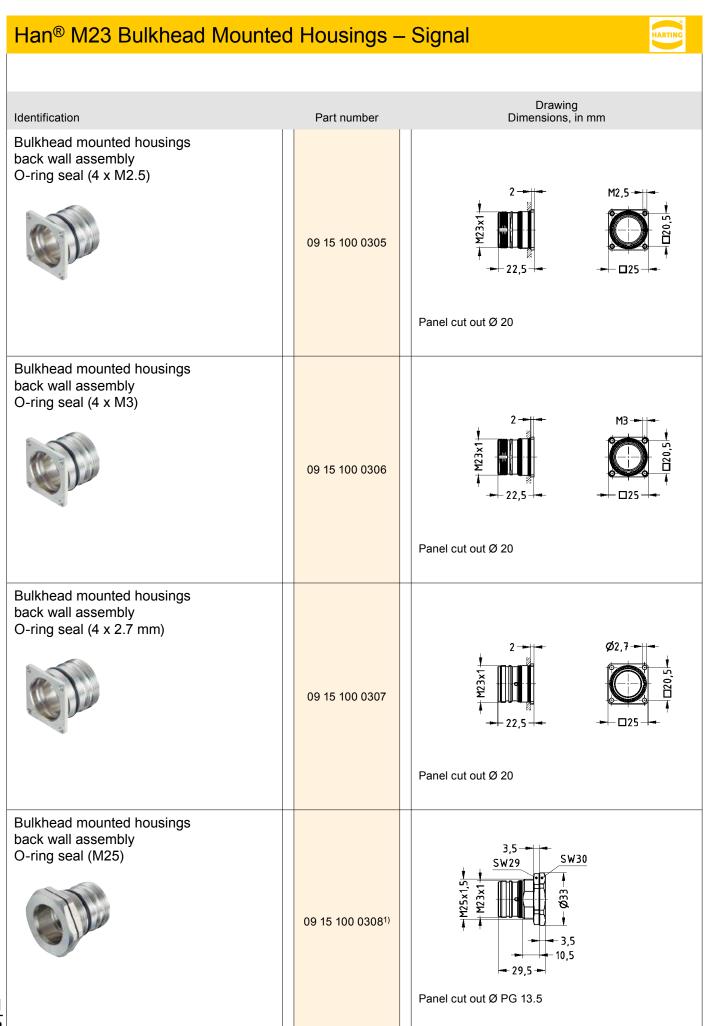


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Han[®] M23 Bulkhead Mounted Housings – Signal

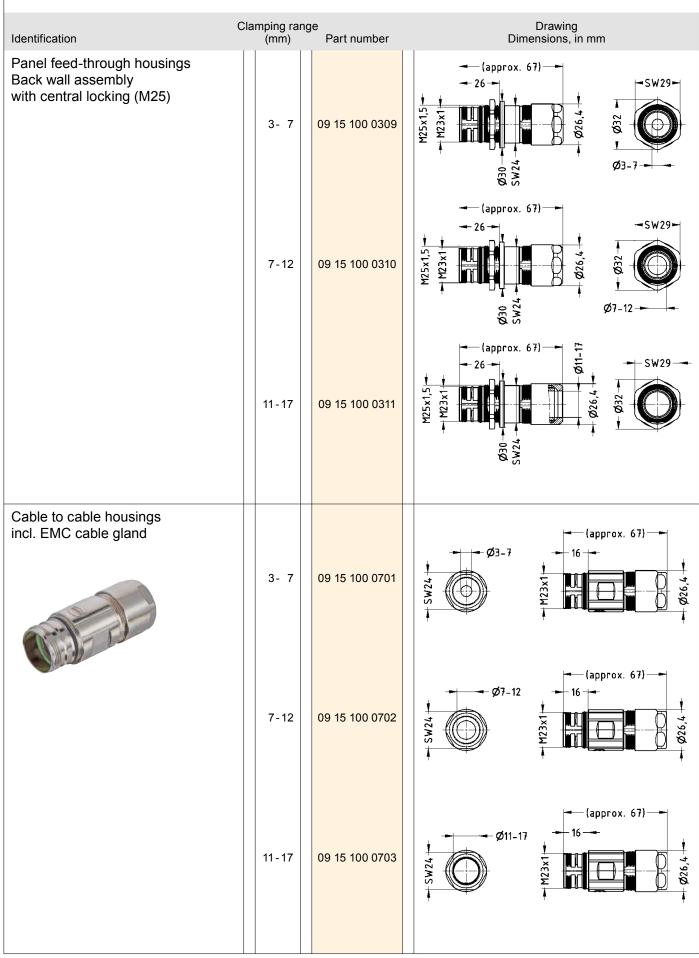
Identification	Part number	Drawing Dimensions, in mm
Bulkhead mounted housings front wall assembly for male insert (M20 x 1.5)	09 15 100 0363 ¹⁾	Panel cut out Ø 20
Bulkhead mounted housings front wall assembly for female insert (M20 x 1.5)	09 15 100 0373 ¹⁾	SW23 SW23 SW23 SW24
Bulkhead mounted housings front wall assembly for male insert (PG 13.5)	09 15 100 0364 ¹⁾	Panel cut out Ø PG 13.5
Bulkhead mounted housings front wall assembly for female insert (PG 13.5)	09 15 100 0374 ¹⁾	Panel cut out Ø PG 13.5

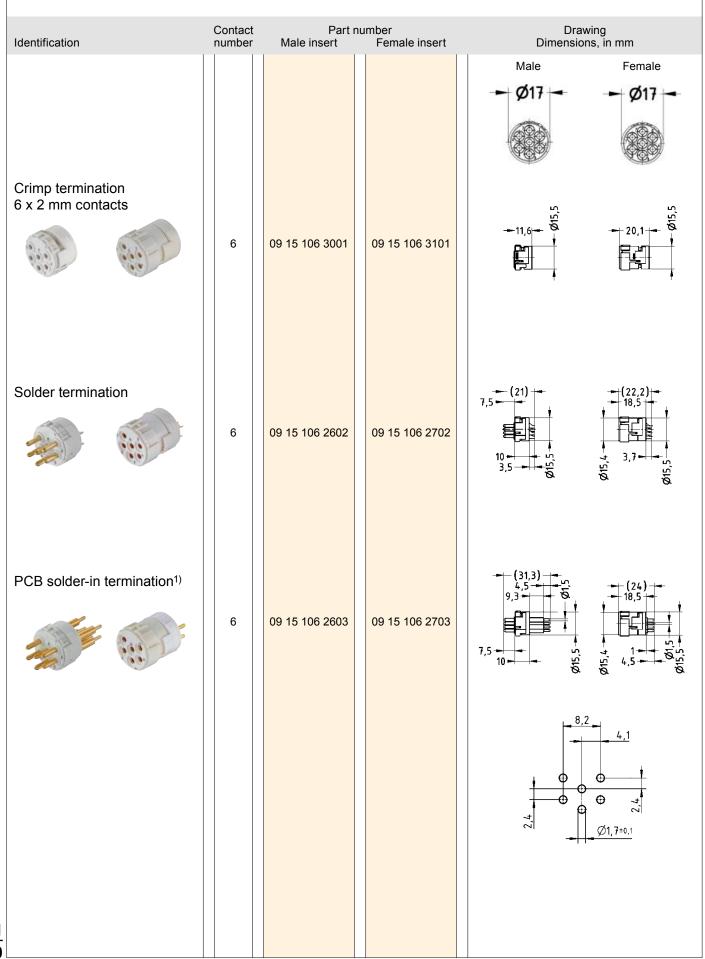


1) Not suitable for rapid locking

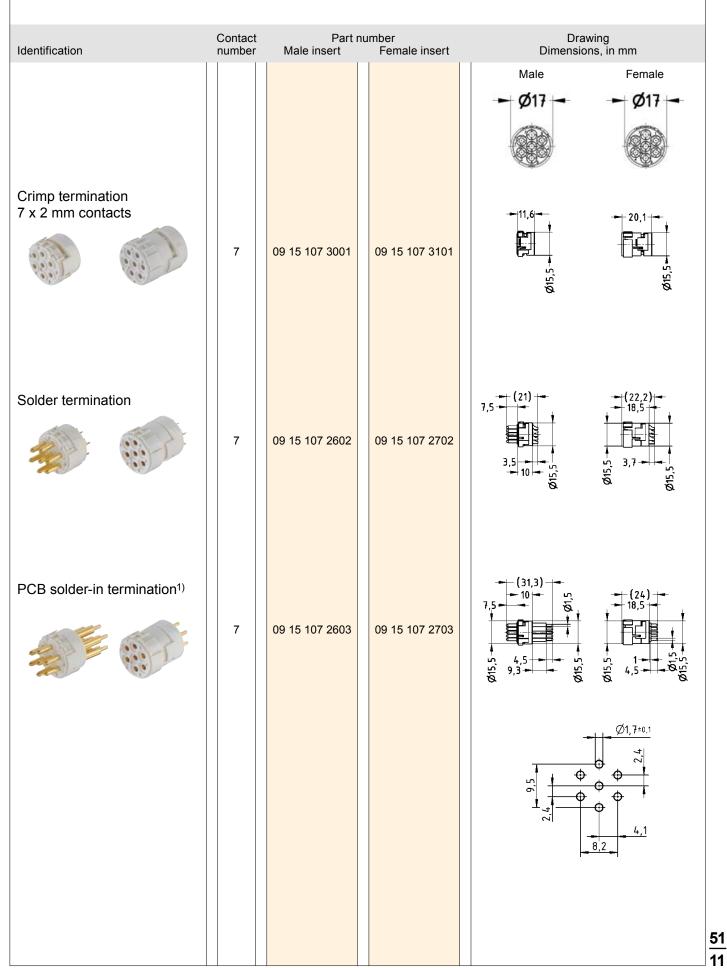
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Han® M23 Panel feed-through/Cable to Cable Housings – Signal

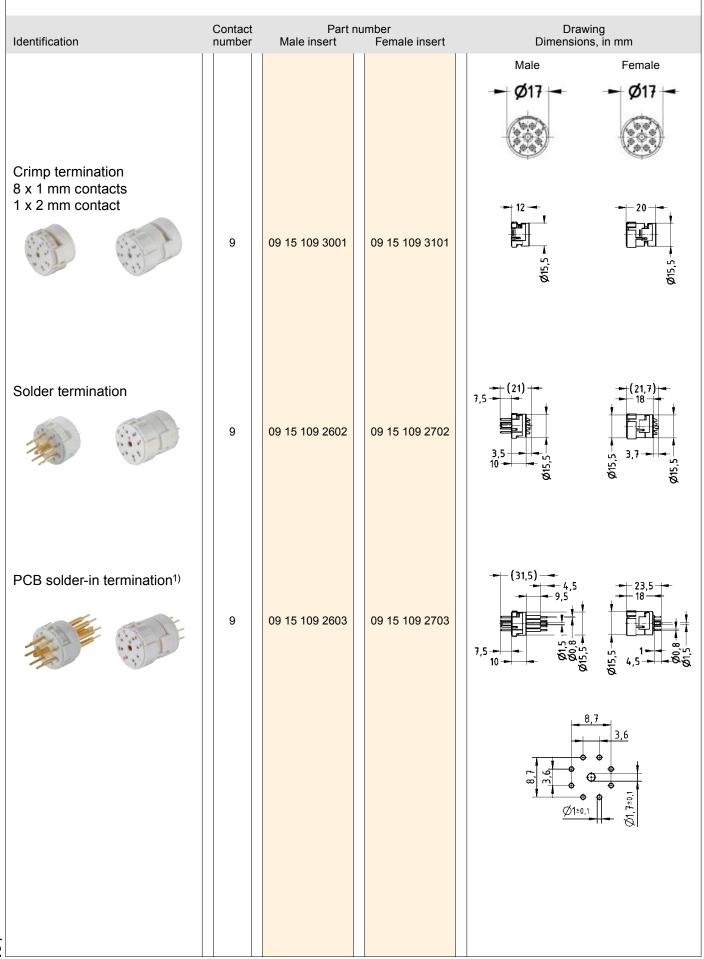




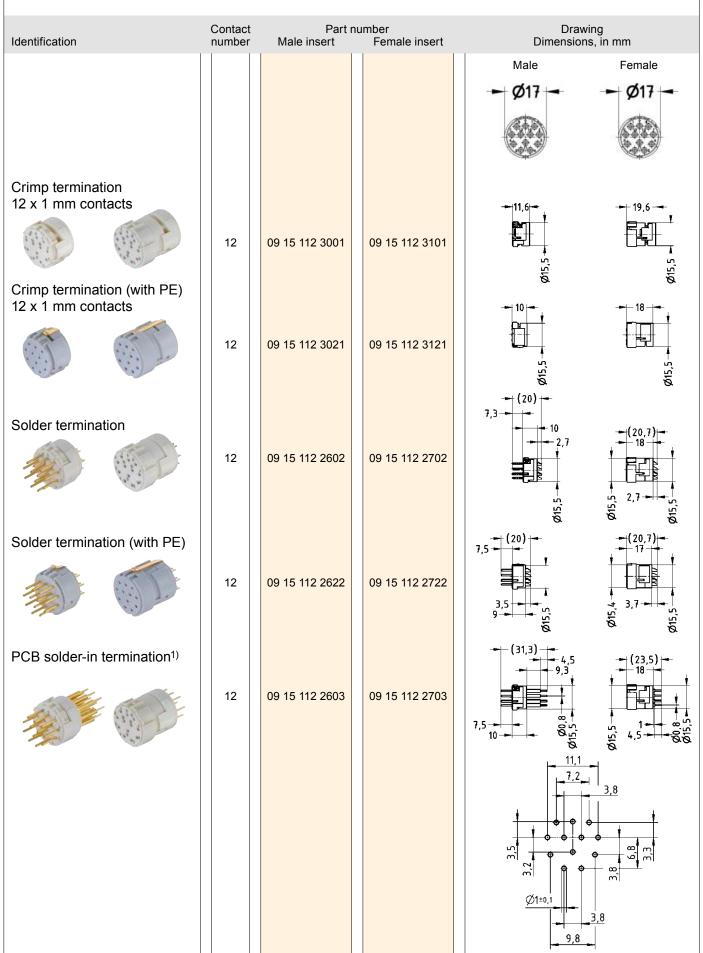
<u>51</u> 10



¹⁾ Only for use with bulkhead mounted housings: 09 15 100 0301, 09 15 100 0302, 09 15 100 0305, 09 15 100 0306 and 09 15 100 0307

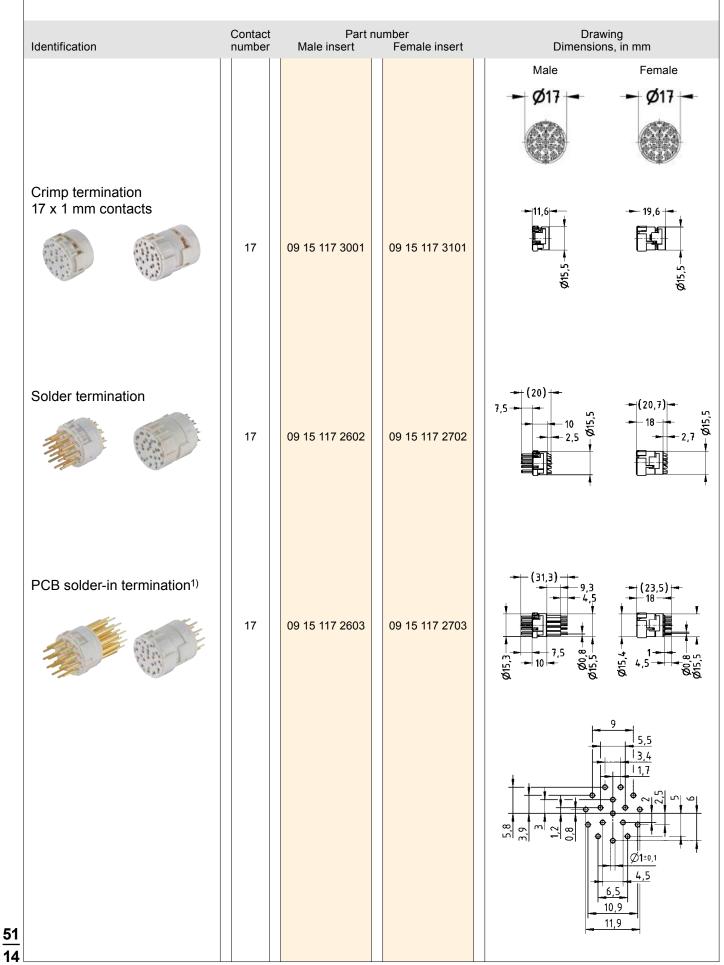


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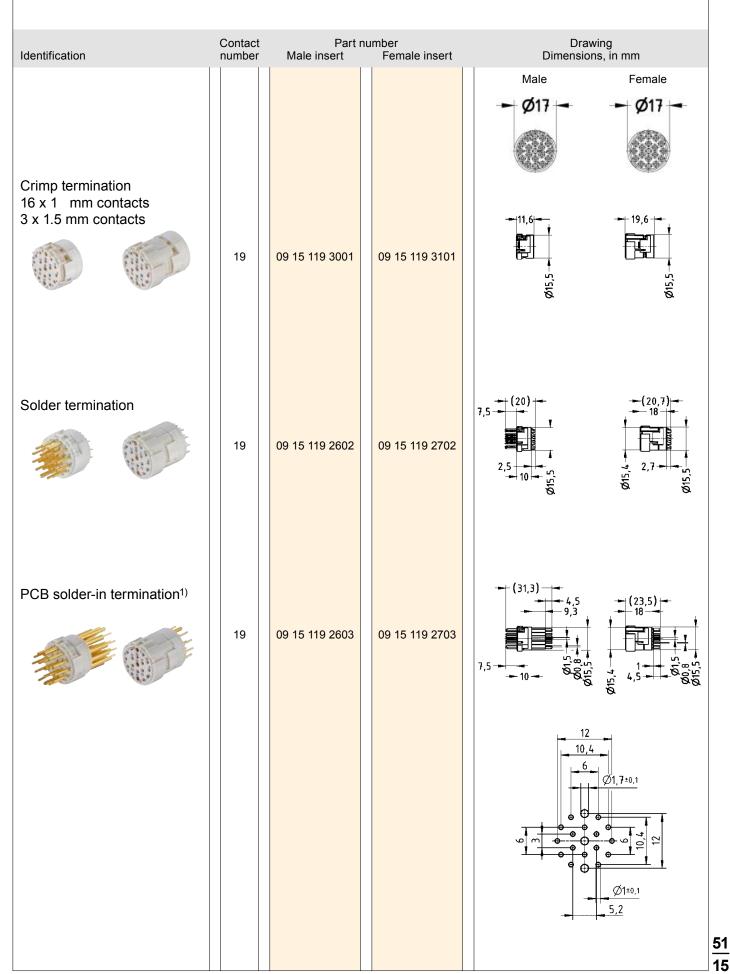


¹⁾ Only for use with bulkhead mounted housings: 09 15 100 0301, 09 15 100 0302, 09 15 100 0305, 09 15 100 0306 and 09 15 100 0307

<u>51</u> 13



¹⁾ Only for use with bulkhead mounted housings: 09 15 100 0301, 09 15 100 0302, 09 15 100 0305, 09 15 100 0306 and 09 15 100 0307

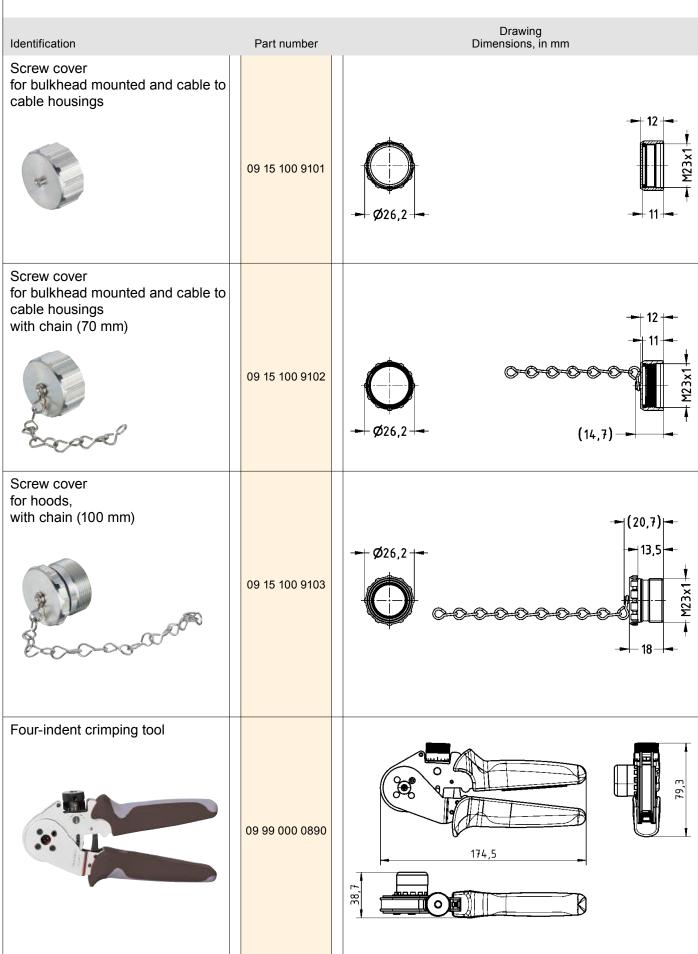


¹⁾ Only for use with bulkhead mounted housings: 09 15 100 0301, 09 15 100 0302, 09 15 100 0305, 09 15 100 0306 and 09 15 100 0307

Han[®] M23 Contacts – Signal

Identification	Conductor cross-sec (mm²)	Male	umber Female	Drawing Dimension, in mm
Han [®] M23 crimp contacts 1 mm turned Contact surface: gold plated	0.08 – 0.56	09 15 100 6101		₹ 5 5 5 5 5 5 5 5 5 5 5 5 5
	0.14 – 1.00	09 15 100 6102		4 8 8 16,5 4 16,5 4 8 16,5 4 16,5 4 16,5 4 16,5 4 16,5 4 16,5 4 16,5 16 16 16 16 16 16 16 16 16 16 16 16 16
	0.75 – 1.50	09 15 100 6103		→ 4,5 & → 16,5 →
	0.08 – 0.56		09 15 100 6201	
	0.34 – 1.00		09 15 100 6202	
	0.75 – 1.50		09 15 100 6203	
Han [®] M23 crimp contacts 1.5 mm turned Contact surface: gold plated	0.14 – 1.00	09 15 100 6111		4,8 ⁵ 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	0.14 – 0.56		09 15 100 6211	₹ 20 10 17 17 17
	0.34 – 1.00		09 15 100 6212	4,8 8 6 16,5 16,5
Han [®] M23 crimp contacts 2 mm turned Contact surface: gold plated	0.75 – 2.50	09 15 100 6121		₩ ₩ + 6,5 ₩ + + + - 6,5 ₩ + + +
	0.75 – 2.50		09 15 100 6221	

Han® M23 Accessories – Signal

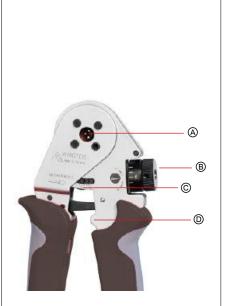


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Conductor cross-section 0.08 to 2.5 mm²

Operating instructions



(A) Tool opening

- Settings dial (with 0.01 mm pitch)
- © Settings scale (with 0.2 mm pitch) © End stop



E Locator
F Hex. socket screw
C Latch detent (indicated by arrow)

Proper and intended use

The four-indent crimping tool (09 99 000 0890) is used for crimping Han[®] M23 series crimp contacts with conductor cross-sections from 0.08 mm² to 2.5 mm².

Crimping sequence

 Refer to the "Crimping depth settings for Han[®] M23 crimp contacts" table (on the second following page) for the locator setting and the exact crimping depth required for the contacts you are using. Adjust the four-indent crimping tool according to the values (refer to the section

"Adjust the locator" and "Adjusting the crimping depth").

- 2. Insert the contact into the tool's opening until is in the specified crimping position.
- 3. Secure the contact by carefully closing the four-indent crimping tool until it reaches its first catch-lock position.
 - ▶ The inserted contact is now secured in this position so that it cannot fall out.
- 4. Insert a properly stripped (refer to specifications) conductor into the crimp contact.
- 5. Press the crimping tool's handles together in order to crimp the contact. Press the tool's handles together until they reopen automatically.
- 6. Remove the crimped contact.



Operating principle of the four-indent crimping tool The four-indent crimping tool operates according to forced completion functionality: you must press the handles together as far as possible (until the end stop position) and

Adjusting the crimping depth

In order to ensure the best error-free crimp connection, the crimping depth (the gap between the crimping dies) must properly correspond to the type of contact and conductor diameter in use. You must use the proper setting for the contact! These settings are found in the table on the second following page.

then the tool will open automatically.

Adjusting the locator

Raise the locator until it can be turned past the latch detent (indicated by arrow). Turn the locator to the position specified in the "Crimping depth settings for Han[®] M23 crimp contacts" table. Then let it snap into the latch detent.



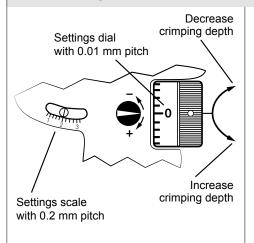
Direction of rotation when adjusting the crimping depth

When the locator or fine-settings dial are turned clockwise, the crimping depth is reduced. When they are turned counter-clockwise, the crimping depth is increased.

Crimping tool for signal contacts 09 99 000 0890

Conductor cross-section 0.08 to 2.5 mm²

Operating instructions



Adjustment accuracy

- 1 graduation mark on the settings dial \triangleq 0.01 mm change in the crimping depth 1 rotation of settings dial \triangleq 0.2 mm change in the crimping depth
- (This can be read on the settings scale)
- 5 rotations of settings dial \triangleq 1 mm change in the crimping depth

Testing with the go/no-go gauge

The four-indent crimping tool (09 99 000 0890) has been set at the factory. You should still make sure that you check the crimping depth regularly. For this reason, a go/no-go gauge with a 1.0 mm diameter is included with the crimping tool. Take the following steps to check that the crimping depth is correct:

- 1. Open the crimping tool and turn it onto the side with the settings scale.
- 2. Turn the settings dial until the value 1.0 mm (roughly) is shown on the settings scale
- 3. Now turn the settings dial so that the arrow next to the dial (at the right tool handle) is pointing to "0".
- 4. Close the crimping tool handles.
- 5. Insert the go/no-go gauge into the crimping position.
 - You must be able to insert and move the go/no-go gauge precisely between the crimping mandrels without any free room or slack.
- 6. If the gauge has too much room/slack or if it cannot be inserted into the crimping position, then you must make a fine adjustment using the settings dial.
 - If the deviation is above the specified tolerance of +/- 0.05 mm, please contact the HARTING Service so that the tool can be serviced and recalibrated!

Maintenance and repair

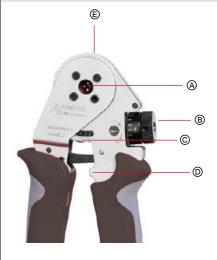
Make sure that the four-indent crimping tool is clean and in good condition after each use.

- 1. Clean the crimping jaws and the locator.
- 2. Lubricate all movable parts regularly with a light all-purpose oil; this will ensure that your tool has a long service life.
- 3. Use retaining rings to make sure that all bolts are secured.

Crimping tool for signal contacts 09 99 000 0890

Conductor cross-section 0.08 to 2.5 mm²

Crimping depth settings for Han® M23 crimp contacts



(A) Tool opening

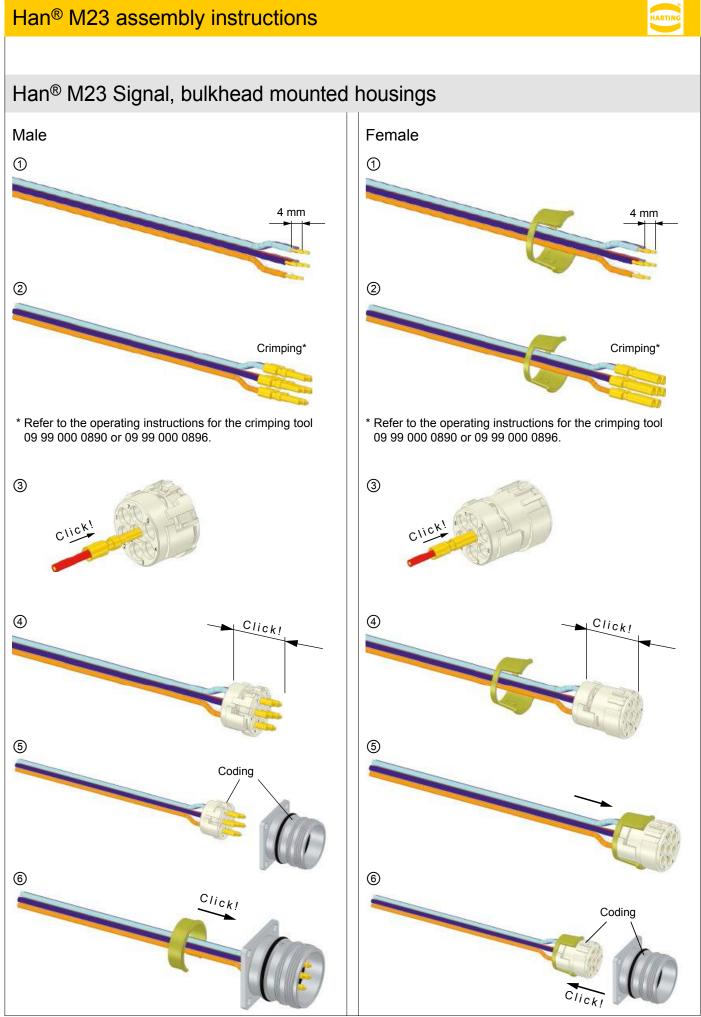
B Settings dial (with 0.01 mm pitch)

© Settings scale (with 0.2 mm pitch)

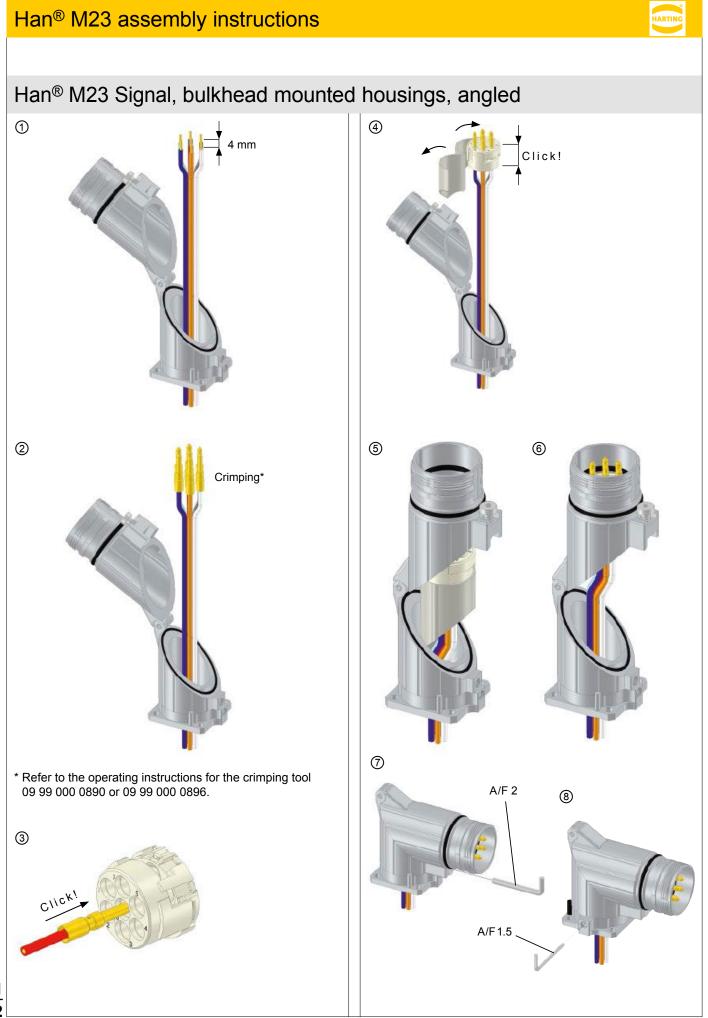
- D End stop
- E Locator (on the back of the crimping tool)

[Oracluster			
Part number	Crimp contact	Conductor cross-section (mm²)	AWG	Crimping depth	Locator position
09 15 100 6102	Male crimp contact 1 mm	0.14 0.25 0.34 0.50 0.75 1.00	26 24 22 20 18 17	0.70 0.76 0.82 0.90 1.00 1.10	1
09 15 100 6201	Female crimp contact 1 mm	0.08 0.14 0.25 0.34 0.56	28 26 24 22 20	0.75 0.78 0.82 0.86 0.90	2
09 15 100 6202	Female crimp contact 1 mm	0.34 0.56 0.75 1.00	22 20 18 17	0.77 0.82 0.88 0.95	2
09 15 100 6111	Male crimp contact 1.5 mm	0.14 0.25 0.34 0.56 0.75 1.00	26 24 22 20 18 17	0.65 0.68 0.72 0.81 0.95 1.07	3
09 15 100 6211	Female crimp contact 1.5 mm	0.14 0.25 0.34 0.56	26 24 22 20	0.70 0.73 0.77 0.85	2
09 15 100 6212	Female crimp contact 1.5 mm	0.34 0.56 0.75 1.00	22 20 18 17	0.70 0.73 0.77 0.85	2
09 15 100 6121	Male crimp contact 2 mm	0.75 1.00 1.50 2.50	18 17 16 14	1.25 1.35 1.45 1.60	4
09 15 100 6221	Female crimp contact 2 mm	0.75 1.00 1.50 2.50	18 17 16 14	1.25 1.35 1.45 1.60	5
09 15 100 6101	Male crimp contact 1 mm	0.08 0.14 0.25 0.34 0.56	28 26 24 22 20	0.72 0.78 0.82 0.86 0.90	1
09 15 100 6103	Male crimp contact 1 mm	0.75 1.00 1.50	18 17 16	0.80 0.86 0.95	1
09 15 100 6203	Female crimp contact 1 mm	0.75 1.00 1.50	18 17 16	0.80 0.86 0.95	2

* Stripping length for Han[®] M23 Signal crimp contacts = 4.0 mm.

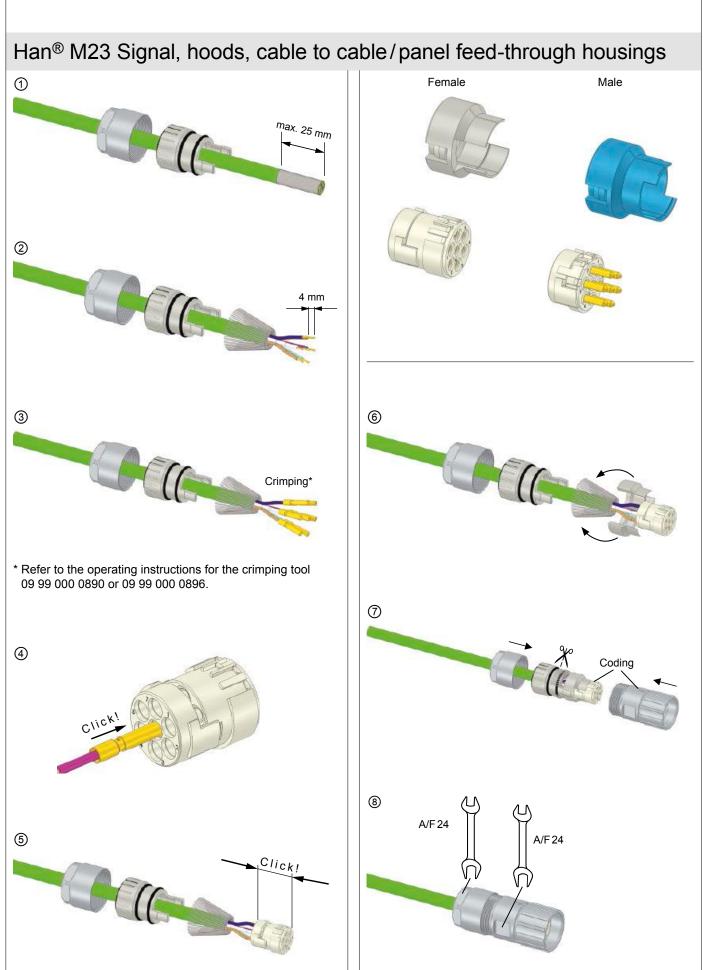


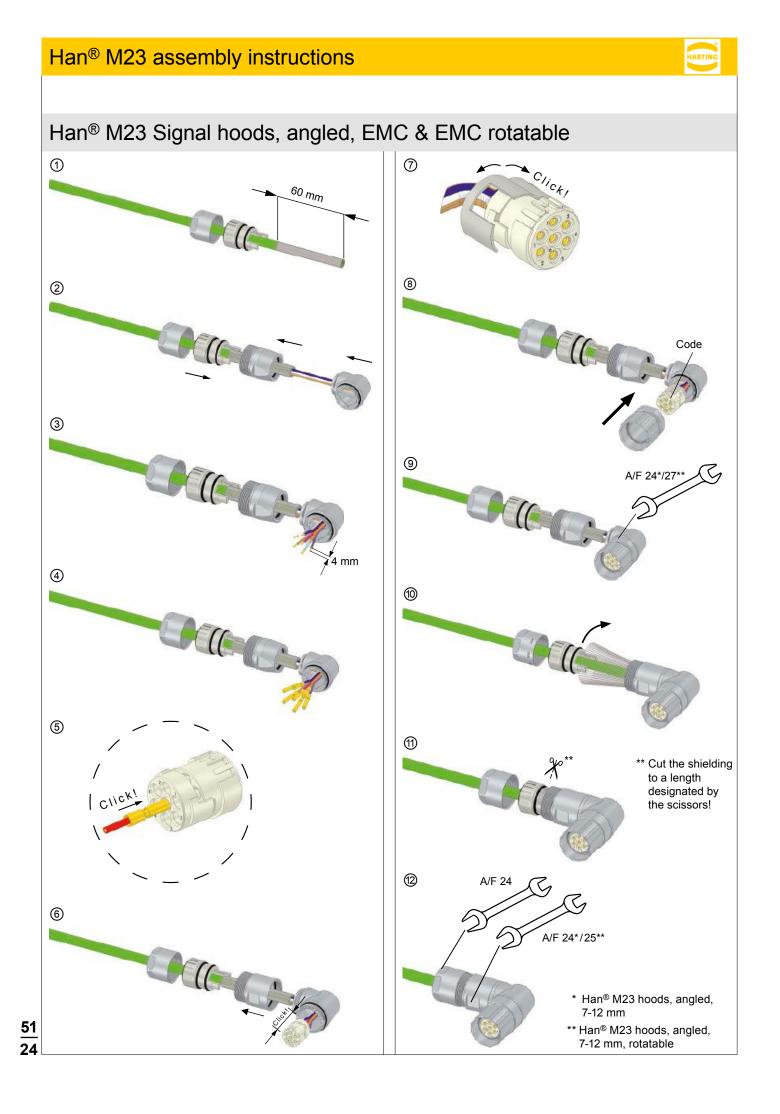
<u>51</u> 21



Han® M23 assembly instructions







Han[®] M23 Power





Han® M23 Overview

Features

- Size M23
- Robust hoods and housings for industrial applications
- Assembly and disassembly requires no tools
- Good EMC properties
- Signal, Power
- Crimp termination

Approvals



Note

For operating voltages over 50 volts, the connector must be used with conductive housing parts, in compliance with the safety directives in DIN VDE 410 / IEC 60364-4-41.

Connectors should not be connected or disconnected while under electrical load.

General information

It is the user's responsibility to check whether the components illustrated in this catalogue comply with different regulations from those stated in special fields of application which we are unable to foresee.

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

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Technical characteristics

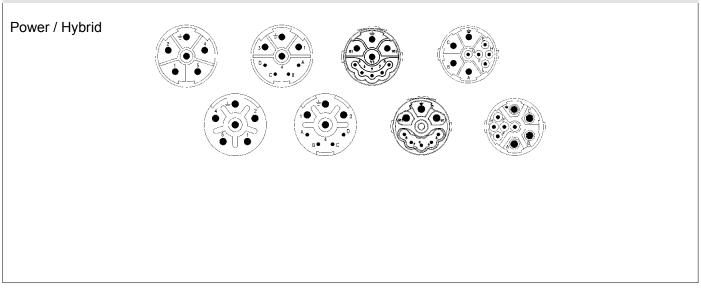
Hoods and housings

Material	Coppe
Surface	Nicke
Seal	NBR
Limiting temperatures	-40 °C
Degree of protection and seal in locked position	IP67 /
Clamping range	7 – 17

Copper zinc alloy
Nickel plated
NBR
-40 °C +125 °C
IP67 / IP69K
7 – 17 mm

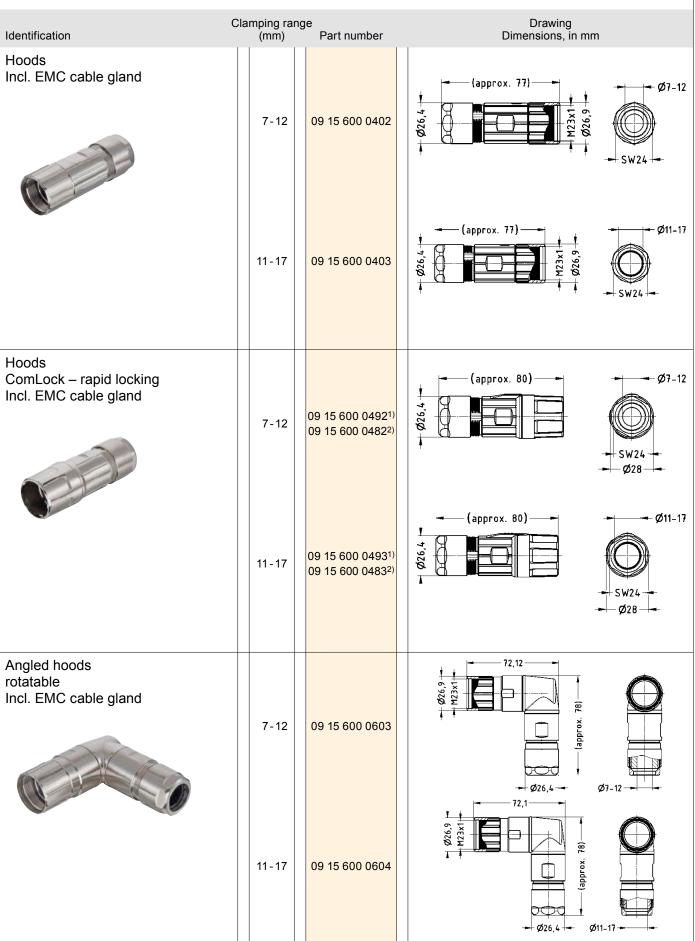
Electrical data						
Number of poles		5 + PE	4 + 3	+ PE	5 + 3	+ PE
Number of contacts		6	4	4	5	4
Contact-Ø	mm	2	1	2	1	2
Rated current	А	28	8	28	10	28
Rated voltage ¹⁾	V	600	300	600	250	630
Test voltage	V	4000	2500	4000	2500	4000
Insulation resistance	MΩ	> 10 ¹³	> 1	10 ¹³	> 1	013
Max. contact resistance	mΩ	3		3		3

Inserts



¹⁾ According to DIN VDE 0627, metallic parts which may be touched by a person and may have voltages present under fault conditions must have integral protection.

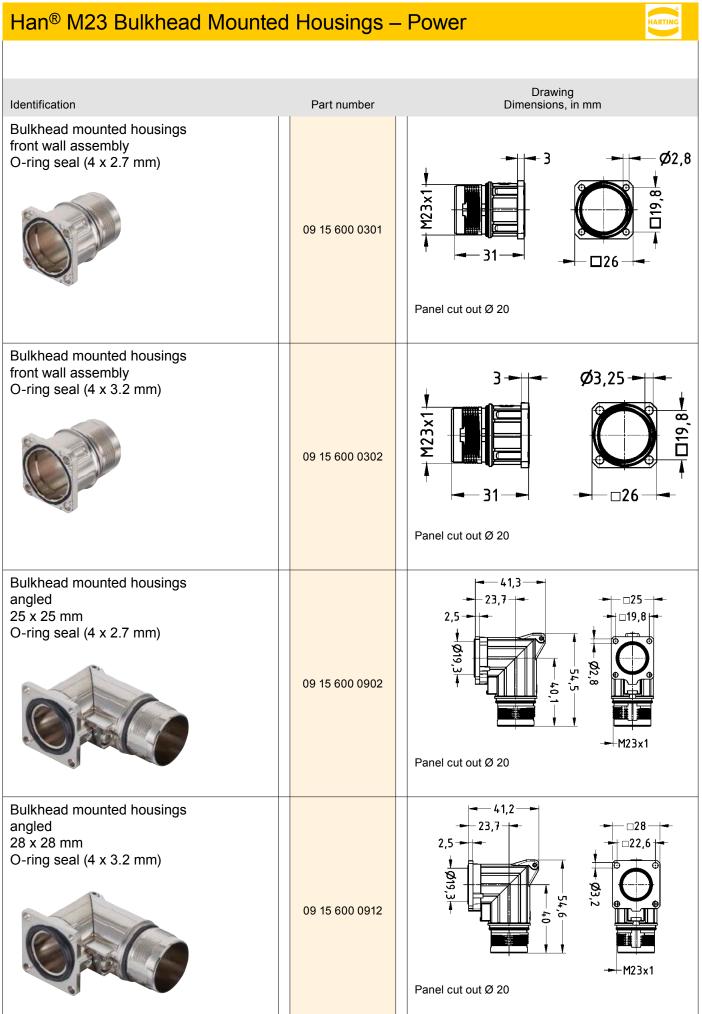
Han[®] M23 Hoods – Power



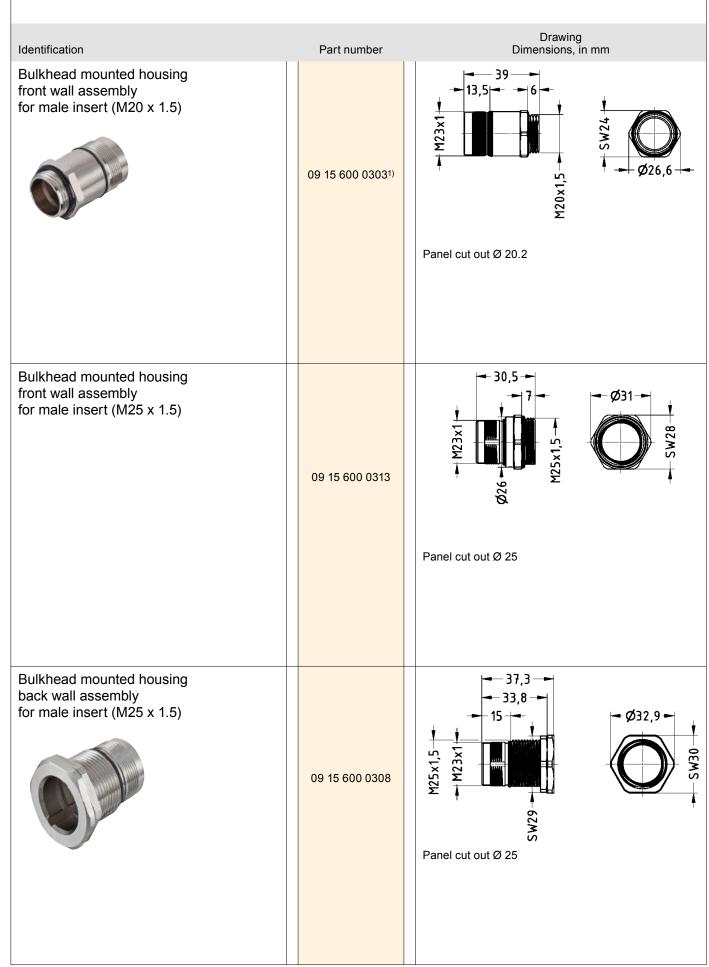
¹⁾ fast locking hood for Han[®] M23 Power Housing ²⁾ fast locking hood for Speedtee products

²⁾ fast locking hood for Speedtec products

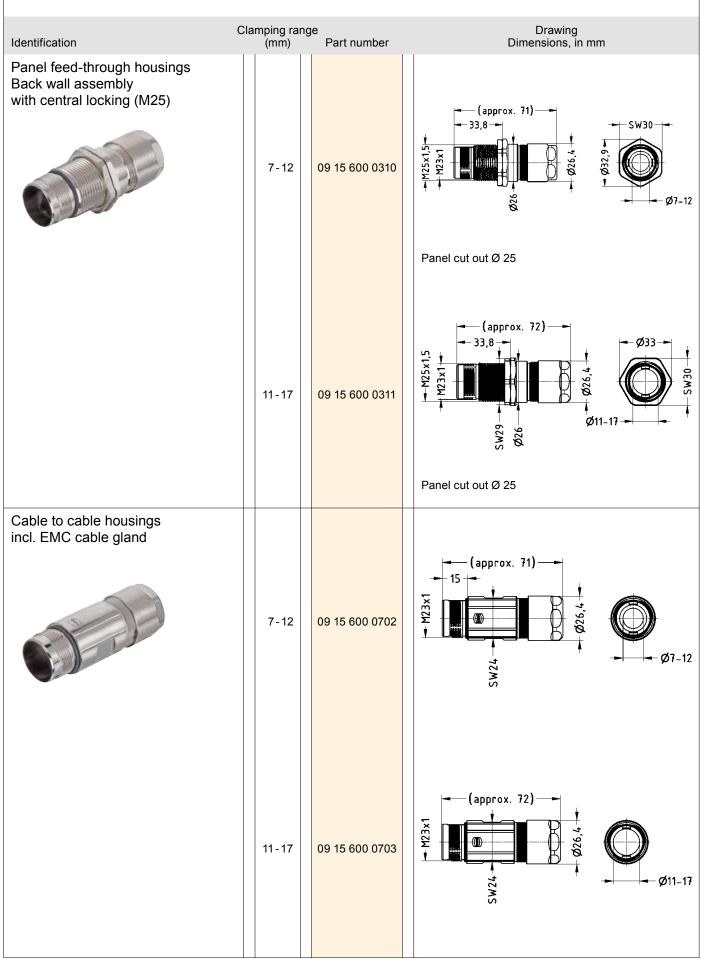
HARTING



Han[®] M23 Bulkhead Mounted Housings – Power

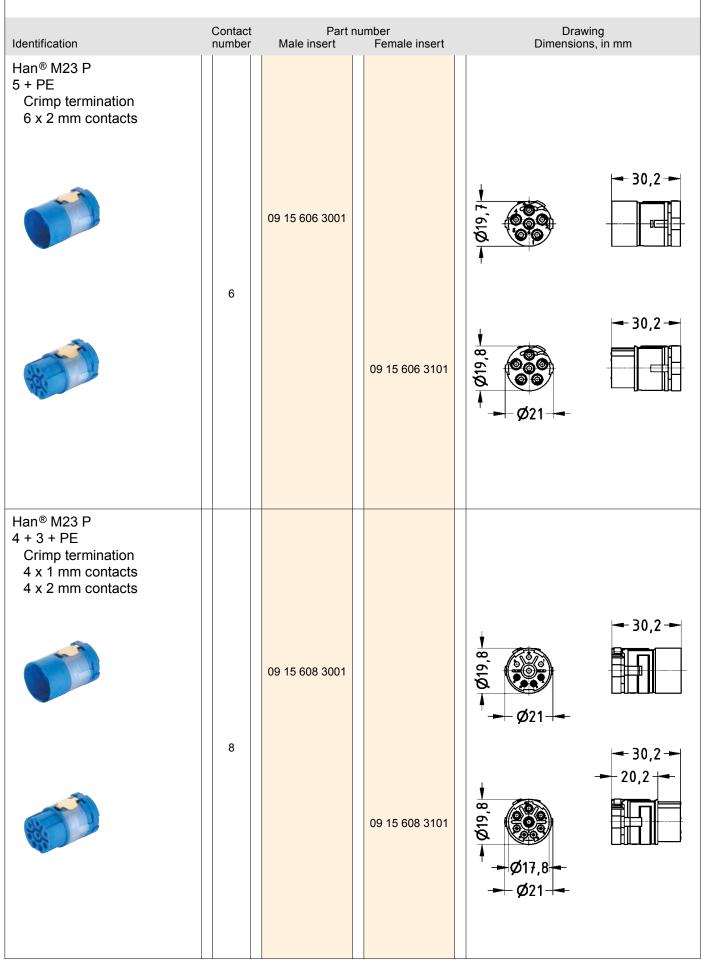


Han[®] M23 Panel feed-through/Cable to Cable Housings – Power



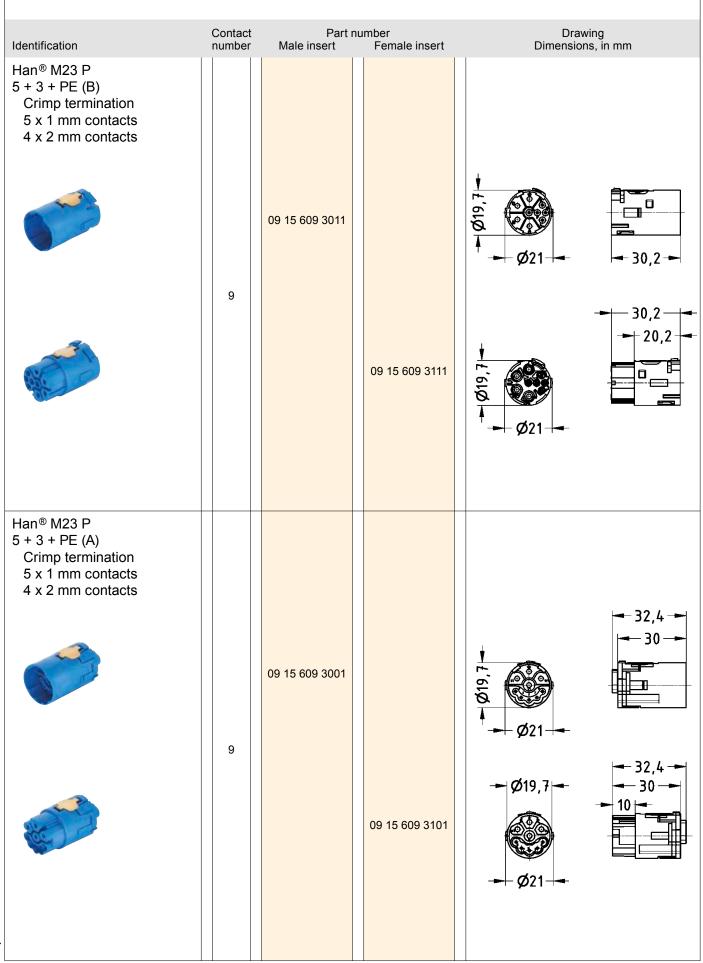
Han[®] M23 Inserts – Power





Han[®] M23 Inserts – Power

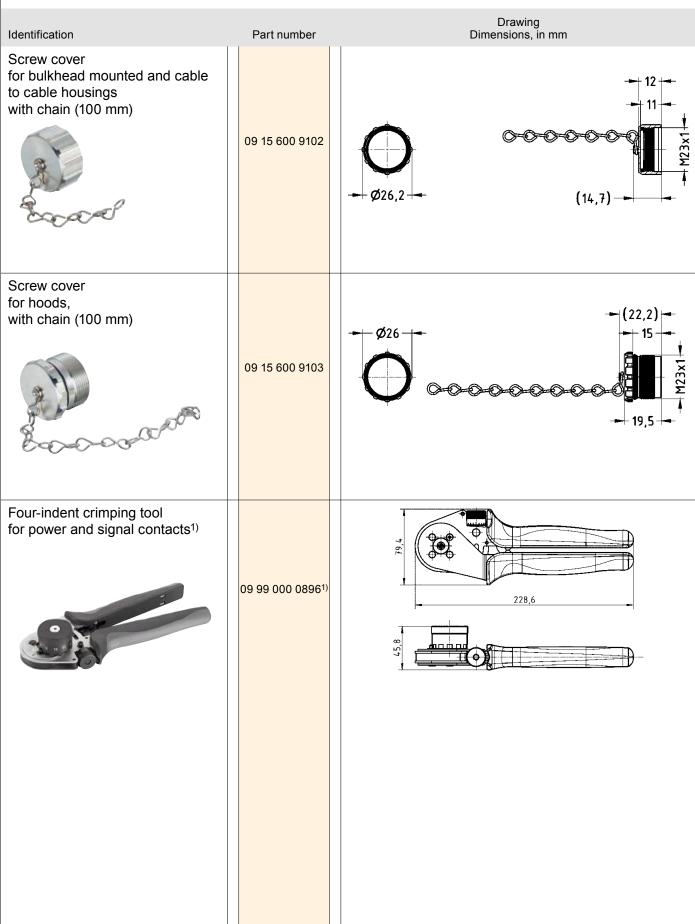




Han[®] M23 Contacts – Power

Identification	Conductor cross-sec (mm²)	tion Part n Male	umber Female	Drawing Dimension, in mm
Han [®] M23 crimp contacts 1 mm turned Contact surface: gold plated	0.14 - 1.00	09 15 600 6101	09 15 600 6201	5, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,
Han [®] M23 crimp contacts 2 mm turned Contact surface: gold plated	0.75 - 2.50	09 15 600 6121	09 15 600 6221	7,8 7,8 7,8 7,8 7,8 7,8 7,8 7,8 7,8 7,8
	2.50 - 4.00	09 15 600 6122	09 15 600 6222	7,8 7,8 7,8 7,8 7,8 7,8 7,8 7,8

Han[®] M23 Accessories – Power





¹⁾ Not suitable for 0.6 mm contacts

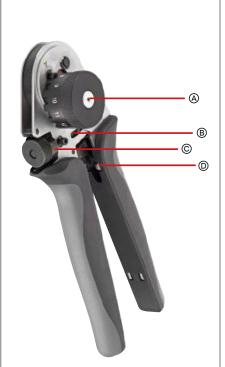
HARTIN



Crimping tool for power & signal contacts 09 99 000 0896

Conductor cross-section 0.14 to 4 mm²

Operating instructions



- (A) Tool opening
- B Settings dial (with 0.01 mm pitch) © Settings scale (with 0.2 mm pitch)
- D End stop



E Locator

© Latch detent (indicated by arrow)

Proper and intended use

The crimping tool 09 99 000 0896 is a four-indent crimping tool for processing signal and power contacts of the series Han[®] M23. It is suitable for crimping contacts and stranded wires with cross-sections between 0.14 mm² and 4 mm².

Crimping sequence

- 1. Refer to the "Crimping depth settings for Han® M23 crimp contacts signal" table (on the following pages) for the locator setting and the exact crimping depth required for the contacts you are using. Adjust the crimping tool for power and signal contacts according to the values
 - (refer to the section "Adjusting the locator" and "Adjusting the crimping depth").
- 2. Insert the contact into the tool's opening until is in the specified crimping position.
- 3. Secure the contact by carefully closing the four-indent crimping tool until it reaches its first catch-lock position.
 - ▶ The inserted contact is now secured in this position so that it cannot fall out.
- 4. Insert a properly stripped (refer to specifications) conductor into the crimp contact.
- 5. Press the crimping tool's handles together in order to crimp the contact. Press the tool's handles together until they reopen automatically.
- 6. Remove the crimped contact.

NOTICE

Operating principle of the crimping tool for power and signal contacts

The crimping tool 09 99 000 0896 operates according to forced completion functionality: you must press the handles together as far as possible (until the end stop position) and then the tool will open automatically.

Adjusting the crimping depth

In order to ensure the best error-free crimp connection, the crimping depth (the gap between the crimping dies) must properly correspond to the type of contact and conductor diameter in use. You must use the proper setting for the contact! These settings are found in the table on the second following page.

Adjusting the locator

Raise the locator © until it can be turned past the latch detent (indicated by arrow (6). Turn the locator to the position specified in the "Crimping depth settings for Han® M23 crimp contacts signal" table. Then let it snap into the latch detent.

NOTICE

Direction of rotation when adjusting the crimping depth

 \bigcirc clockwise \Rightarrow reduce crimping depth \bigcirc counter-clockwise \Rightarrow increase crimping depth



Crimping tool for power & signal contacts 09 99 000 0896

Conductor cross-section 0.14 to 4 mm²

Decrease

Operating instructions

crimping depth Settings dial with 0.01 mm pitch Increase Settings scale crimping depth with 0.2 mm pitch

Adjustment accuracy

- 1 graduation mark on the settings dial \triangleq 0.01 mm change in the crimping depth 1 rotation of settings dial \triangleq 0.2 mm change in the crimping depth
- (This can be read on the settings scale)
- 5 rotations of settings dial \triangleq 1 mm change in the crimping depth

Testing with the go/no-go gauge

The four-indent crimping tool 09 99 000 0896 has been set at the factory. You should still make sure that you check the crimping depth regularly. For this reason, a go/no-go gauge with a 2.0 mm diameter is included with the crimping tool. Take the following steps to check that the crimping depth is correct:

- 1. Open the crimping tool and turn it onto the side with the settings scale.
- 2. Turn the settings dial until the value 2.0 mm (roughly) is shown on the settings scale
- 3. Now turn the settings dial so that the arrow next to the dial (at the right tool handle) is pointing to "0".
- 4. Close the crimping tool handles.
- 5. Insert the go/no-go gauge into the crimping position.
 - You must be able to insert and move the go/no-go gauge precisely between the crimping indents without any free room or slack.
- 6. If the gauge has too much room/slack or if it cannot be inserted into the crimping position, then you must make a fine adjustment using the settings dial.
 - If the deviation is above the specified tolerance of +/- 0.05 mm, please contact the HARTING Service so that the tool can be serviced and recalibrated!

Maintenance and repair

Make sure that the four-indent crimping tool is clean and in good condition after each use.

- 1. Clean the crimping jaws and the locator.
- 2. Lubricate all movable parts regularly with a light all-purpose oil; this will ensure that your tool has a long service life.
- 3. Use retaining rings to make sure that all bolts are secured.

Crimping tool for power & signal contacts 09 99 000 0896

Conductor cross-section 0.14 to 4 mm²

Crimping depth settings for Han® M23 Signal crimp contacts



 $\ensuremath{\textcircled{}}$ Tool opening

- B Settings dial (with 0.01 mm pitch)
- © Settings scale (with 0.2 mm pitch)

D End stop

E Locator (on the back of the crimping tool)

Part number	Crimp contact ø	Conductor cross-section (mm²)	AWG	Crimping depth	Locator position
09 15 100 6102	Male crimp contact 1 mm	0.14 0.25 0.35 0.50 0.75 1.00	26 24 22 20 18 18	0.75 0.82 0.9 1.0 1.08 1.20	11
09 15 100 6201	Female crimp contact 1 mm	0.14 0.25 0.35 0.50	26 24 22 20	0.75 0.8 0.87 0.97	12
09 15 100 6202	Female crimp contact 1 mm	0.50 0.75 1.0	20 18 18	0.95 1.0 1.05	12
09 15 100 6111	Male crimp contact 1.5 mm	0.14 0.25 0.35 0.50 0.75 1.00	26 24 22 20 18 18	0.75 0.82 0.9 0.96 1.03 1.0	3
09 15 100 6211	Female crimp contact 1.5 mm	0.14 0.25 0.35 0.50	26 24 22 20	0.75 0.8 0.87 0.97	4
09 15 100 6212	Female crimp contact 1.5 mm	0.35 0.50 0.75	22 20 18	0.95 1.0 1.05	4
09 15 100 6121	Male crimp contact 2 mm	0.75 1.0 1.5 2.5	18 18 16 14	1.3 1.4 1.55 1.75	5
09 15 100 6221	Female crimp contact 2 mm	0.75 1.0 1.5 2.5	18 18 16 14	1.3 1.4 1.55 1.75	6

* Stripping length for Han[®] M23 Signal crimp contact = 4.0 mm.

Crimping tool for power and signal contacts 09 99 000 0896

Conductor cross-section 0.14 to 4 mm²

Crimping depth settings for Han® M23 Power crimp contacts



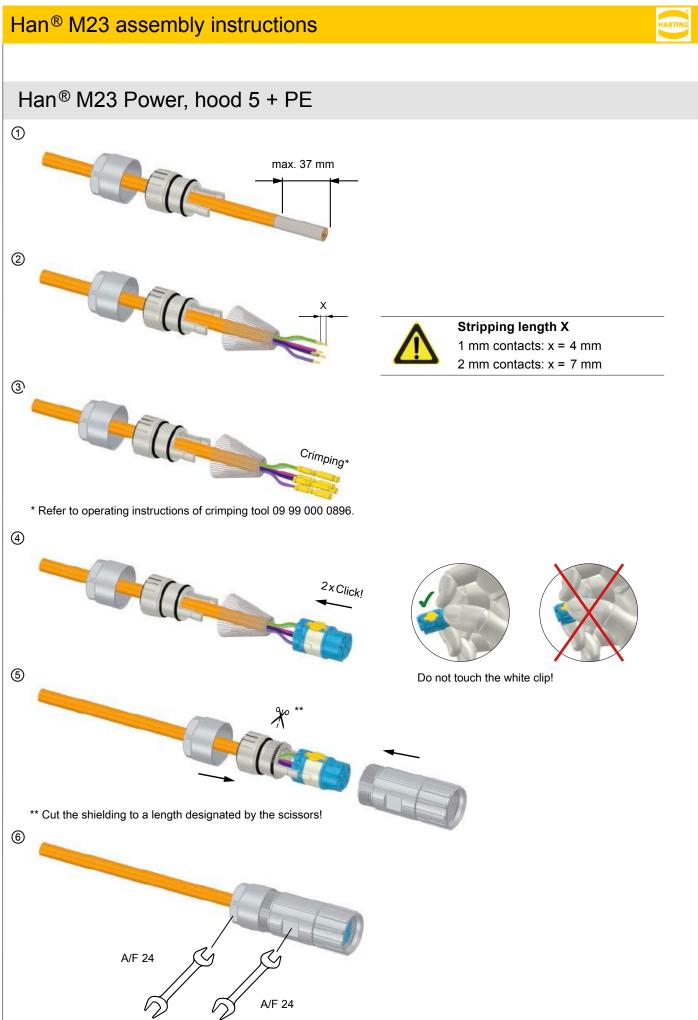
- Werkzeugöffnung
- B Einstellrad (mit 0,01-mm-Teilung)
- © Einstellskala (mit 0,2-mm-Teilung)
- D Endanschlag
- E Positionierer (auf der Rückseite des Crimpwerkzeugs)

Part number	Crimp contact Ø	Conductor cross-section (mm ²)	AWG	Crimping depth	Locator position
09 15 600 6101	Male crimp contact 1 mm	0.14 0.25 0.35 0.5 0.75 1.0	26 24 22 20 18 18	0.75 0.8 0.85 1.03 1.08 1.13	1
09 15 600 6201	Female crimp contact 1 mm	0.14 0.25 0.35 0.5 0.75 1.0	26 24 22 20 18 18	0.75 0.8 0.85 0.89 0.95 1.02	2
09 15 600 6121	Male crimp contact 2 mm	0.75 1.0 1.5 2.5	18 18 16 14	1.3 1.4 1.55 1.7	7
09 15 600 6122	Male crimp contact 2 mm	2.5 4.0	14 12	1.47 1.6	7
09 15 600 6221	Female crimp contact 2 mm	0.75 1.0 1.5 2.5	18 18 16 14	1.3 1.4 1.55 1.7	8
09 15 600 6222	Female crimp contact 2 mm	2.5 4.0	14 12	1.47 1.6	8

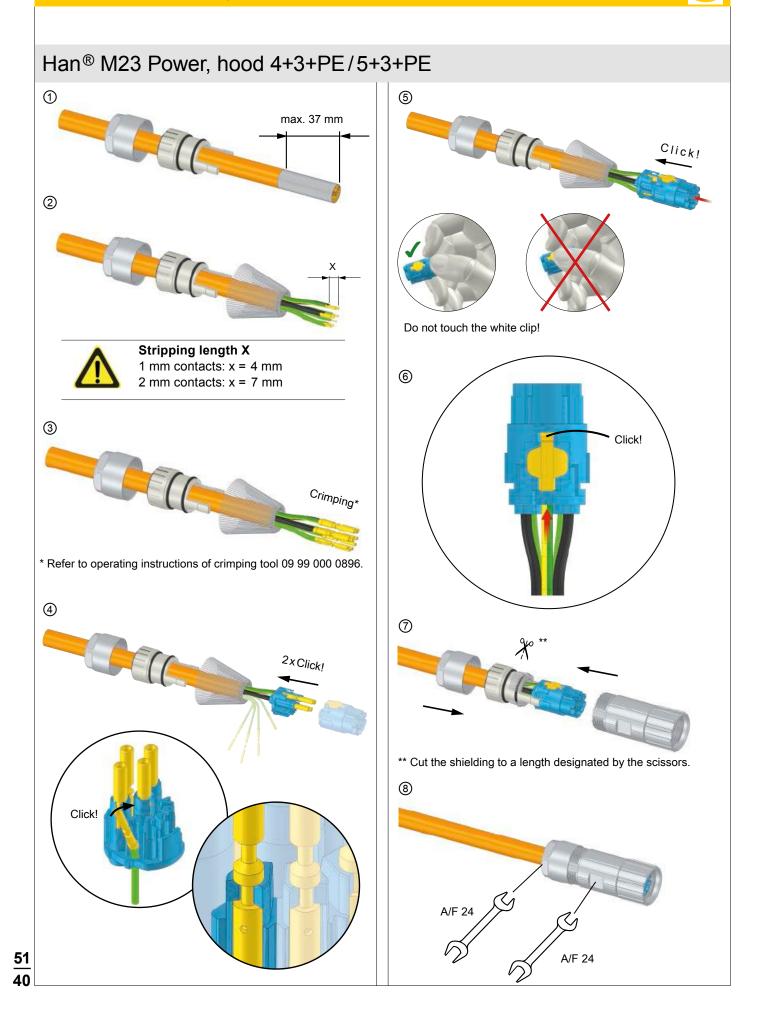
* Stripping length for Han® M23 Power crimp contact:

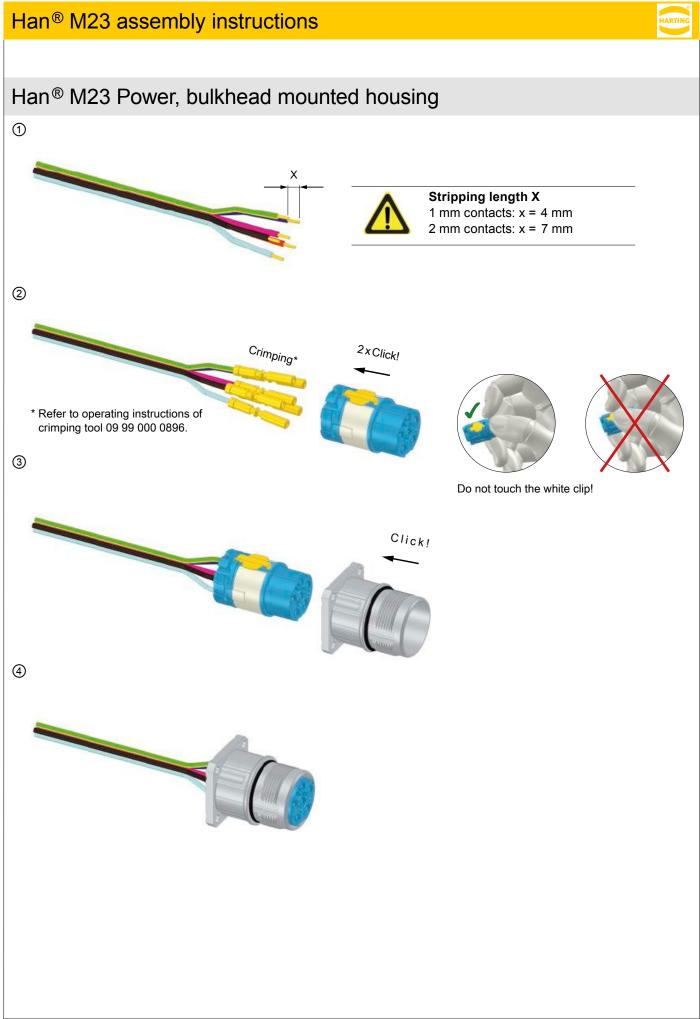
2.00 mm contact = 7.0 mm

1.00 mm contact = 4.0 mm



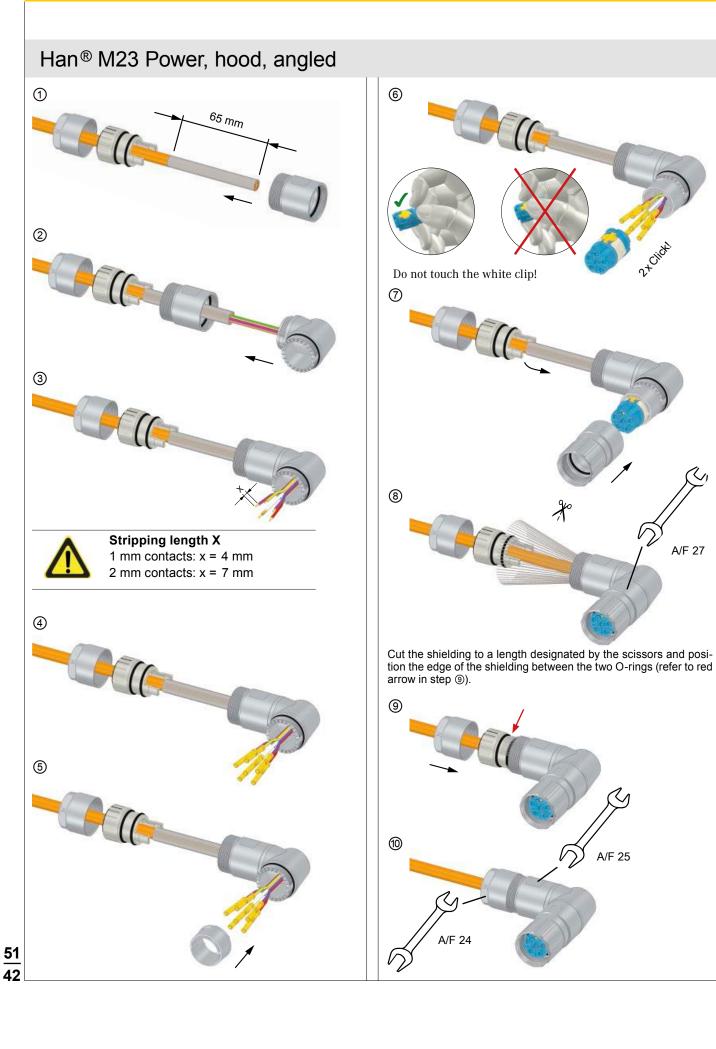
Han[®] M23 assembly instructions

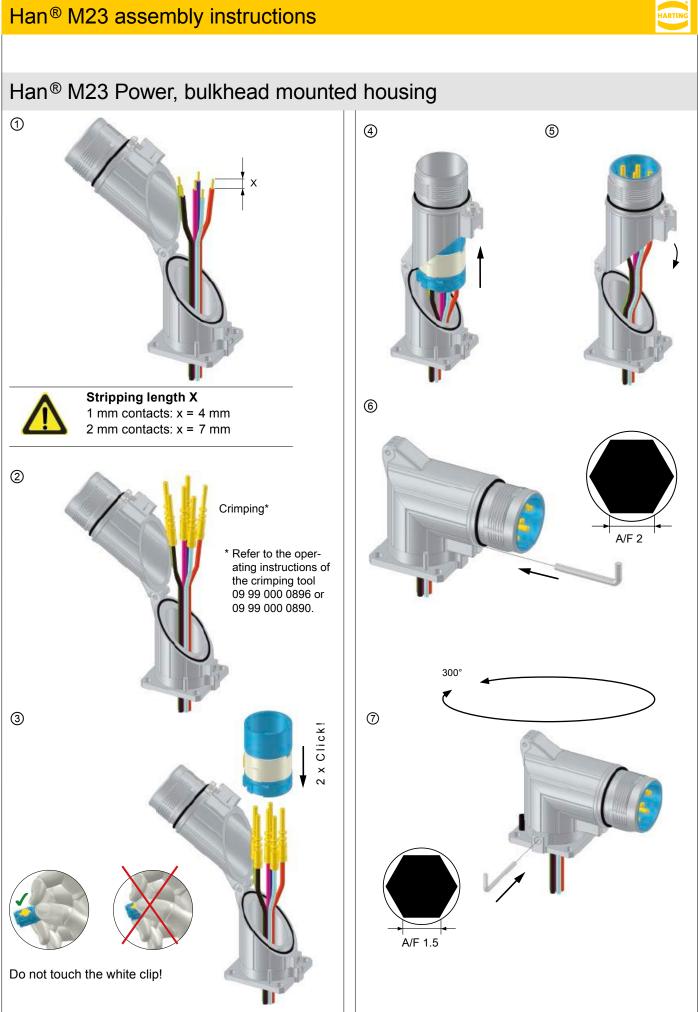




Han[®] M23 assembly instructions

A/F 27





Han® M23 assembly instructions

Han® M23 Power – removal



Remove insert

Remove the contact insert from the housing using a screwdriver:

- 1. Position a smallscrew driver above the locking tongue, located next to the PE contact (refer to picture ①).
- 2. Push the locking tongue down, while pushing the insert out by counterpressing the insert from the mating side.

Remove crimped contacts

- 1. Using a screwdriver, remove the white clip from the insulation body (refer to picture ②).
- 2. Now, remove the contacts out of the insert by withdrawing the conductors in the direction of the termination side (refer to picture ③).
- 3. Before re-terminating the crimped contacts, insert the white ring into the insulation body.



2

