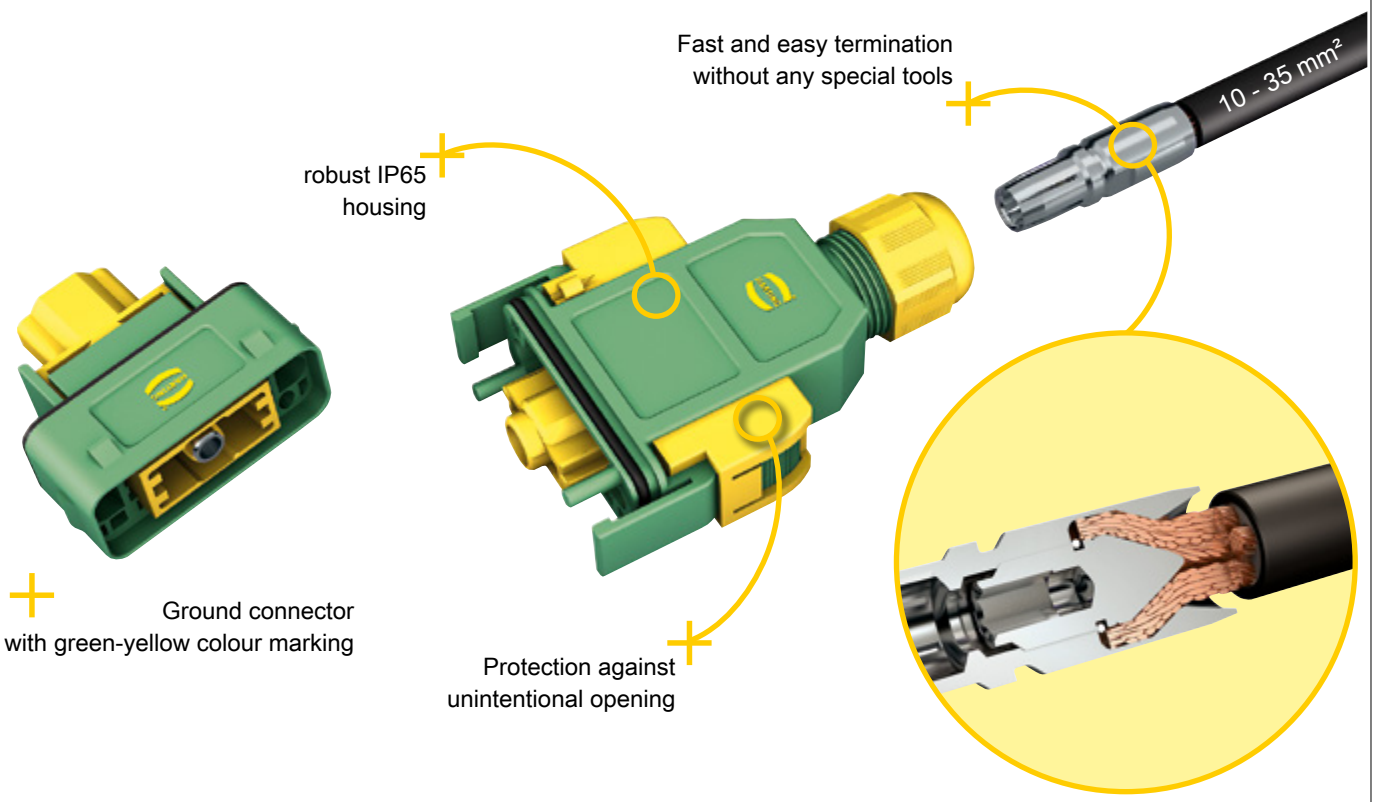
Contents | Page

Han® GND – Mateable Potential Equalization

The new Han® GND series now enables pluggable grounding systems.
Han® GND (Han® Ground) is the innovative HARTING solution for potential equalization. The new connector series makes it possible to execute grounding systems in a pluggable design for the first time.

The use of connectors has been well-established in the electrical cabling of machines and systems for many years. The advantage is quick and error-free commissioning. Potential equalization lines are still being permanently connected, which is relatively time-consuming and can be subject to errors. HARTING's remedy: the Han® GND. The single-pole connector in the robust IP65 plastic housing is designed for stranded wires from 10 - 35 mm² and is optionally available in crimp or axial screw termination. The latter has the advantage that the lines can be connected without a special tool. A simple screwdriver is all it takes to achieve a quick and easy reliable connection. Extra connector mating security can be provided by the use of additional locking elements that prevent unintentional opening.



Assembly and construction

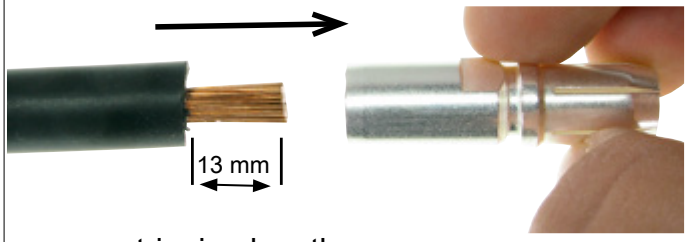
Assembly

Please use fine stranded wire (Class 5) which is recommend for the axial screw termination.

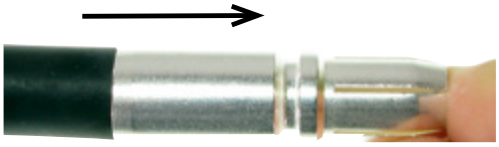
Do not twist the stripped wire!

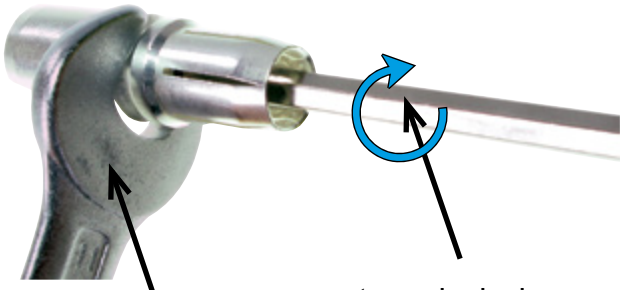
1.

Please strip the wire. All suitable wire gauges have to be stripped with a length of 13 mm (acc. to Class 5).
Insert stripped wire into the terminal and push fully inside. Pay attention that all fine stranded wires are inserted in the contact chamber.



stripping length





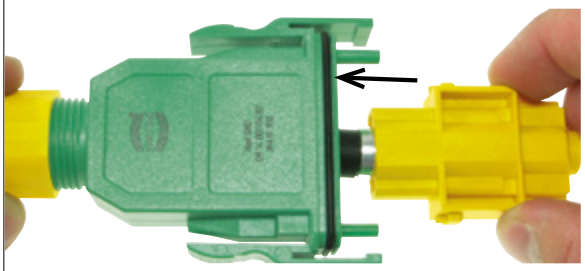
secure axial screw

turn clockwise

2.

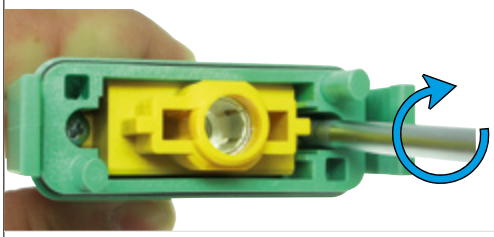
Please insert suitable torque key (SW 4) into the contact from mating side and turn the axial screw clockwise. For that purpose secure the axial screw with a spanner (SW 11).
Tighten the screw to the specified torque value.

Assembly and construction



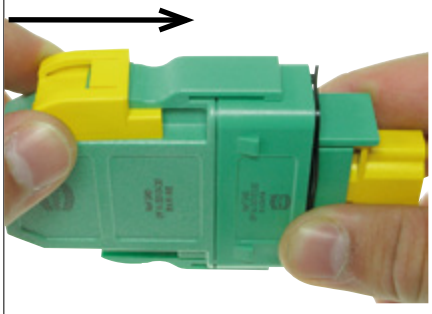
3. Insert the installed cable through the cable gland into the Han® GND housing! Push the axial screw contact into the module until you hear an audible click, which is the indicator that the contact snaps into position.

4. Push the module back into the housing and turn the cable gland clockwise.

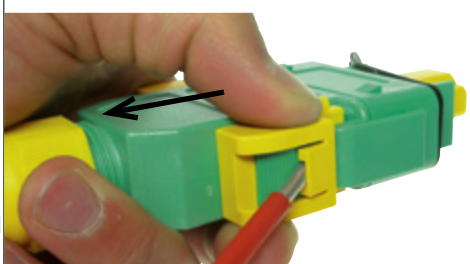


5. Mount the module in the housing with the enclosed screws.

Protection against unintentional opening (option)



1. Push the unlocking protection over the opening latches to prevent an unintentional opening (the connector can only be unmated with a separate tool).



2. The removal of the unlocking protection can be done with a screwdriver for slotted screws (e.g. size 0.8 x 4.0). Insert the screwdriver in the unlocking protection slot and release the plastic latch until you are able to remove the unlocking protection with your fingers.

Features

- First connector for potential equalisation
- Slim, space saving construction type
- Low cost plastic hoods and housings
- Colours: green and yellow
- Crimp or axial screw termination available

Technical characteristics

Number of contacts	1
Insulation resistance	>10^{10} Ω
Contact resistance	≤0.3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	Yellow
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

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

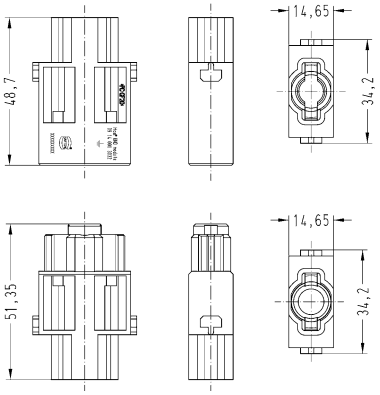
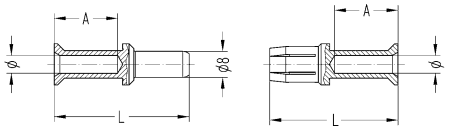
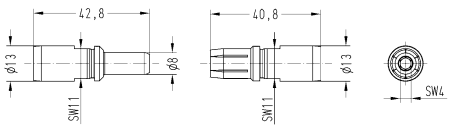
Remarks on the crimp technique

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

Han GND

Number of contacts

1

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® GND, Crimp termination, Axial screw termination  Please order contacts separately.	10 ... 35	09 14 001 3032	09 14 001 3132	
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	 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 for stranded wire according to IEC 60 228 Class 5
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 mm² / 10 / 16 / 25 / 35 Nm / 6 / 6 / 7 / 8

Features

- First connector for potential equalisation
- Slim, space saving construction type
- Low cost plastic hoods and housings
- Colours: green and yellow

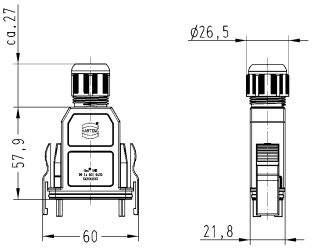
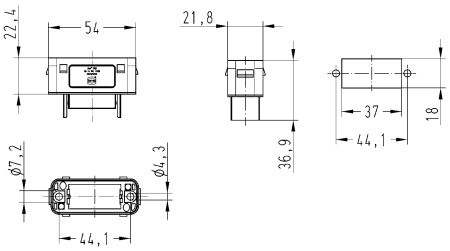
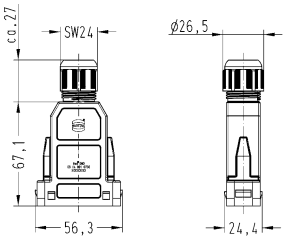
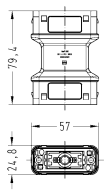
Technical characteristics

Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Polycarbonate (PC)
Colour (hood/housing)	Green, Yellow
Material (seal)	NBR
Material (cable glands)	Polyamide (PA)
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984

Snap-in latches

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han® GND, Hood, Top entry, IP65 	1x Integrated	7.5 ... 14	09 14 001 0430	
Han® GND, Bulkhead mounted housing, IP65 			09 14 001 0330	
Han® GND, Cable to cable housing, Top entry, IP65 	1x Integrated	7.5 ... 14	09 14 001 0730	
Han® GND, Adapter, Male / male 			09 14 001 9901	
Han® GND, Unlocking protection 			09 14 000 9938