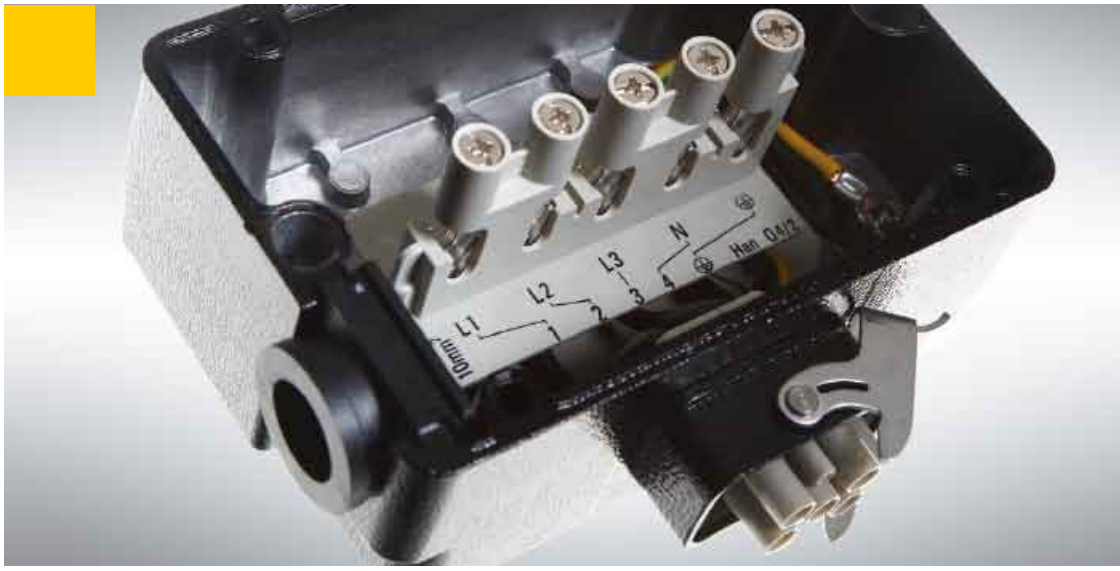
98 42 922 0201

HARTING



Han-Power®

Power Network Solution

HARTING Pushing Performance

General information

Fields of application

HARTING Industrial Connectors are applicable in a wide variety of electronic and electrical applications.

The degree of protection of all hoods and housings is in accordance with International Standard IEC 60 529.

- Power Utilities
- Robotics
- Chemical Plants
- Machine Tool Controls
- Injection Moulding
- Industrial Instrumentation
- Conveyor Equipment
- Transportation
- and many more.

Specifications

VDE 0110 table concerning clearance and creepage distances
VDE 0627 Connectors and plug devices

Standards: DIN EN 175 301 - 801
DIN EN 61 984

Approvals

UL, CSA for inserts

Note

Connectors should not be coupled and decoupled under electrical load. Connectors of the same or different series being mounted side by side may be protected against incorrect mating by the use of coding options.

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.

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Certified according to EN ISO 9001 in design/development, production, installation and servicing

HARTING Power Network products have been applied in the project “High Rack and Commission Stock” at company RILA delicatessen import in Stemwede-Levern, Germany.

The decentralized motor control units are provided with energy by a power bus system in bus topology instead of a star configured power system. Reasons for this were on the one hand to save cabling and installation time and on the other to take into account future potential savings in maintenance costs.

Due to the low construction height of the applied Han-Power® S products they could be positioned within the cable duct. Therefore the cable conduit did not have to be fed out in a complex way. The decentralised components are directly connected on the cable duct side, which leads to savings especially in time-critical maintenance work. In addition the Han-Power® S variant features two connector branches. This is advantageous especially where two drives of rack conveyor systems are often very close to one another. So with this dual variant two adjacent drives can be connected to one branch. The cable conduit has been realized with 2.5 mm² cabling. The branches connecting to the motor control units use 1.5 mm² cabling, taking a maximum of 3 meters length into account.

Han-Power® T

The construction and installation of logistic centre systems can be simplified and economicly achieved by the inclusion of Han-Power® T electric supply distribution products. Fast installation and commissioning of modular conveyor belts is guaranteed when modern design concepts are considered and pre-assembled cable systems are utilised.

The pictures show the HARTING logistic centre in Espelkamp.

General information

BUS Topology for Power Transfer

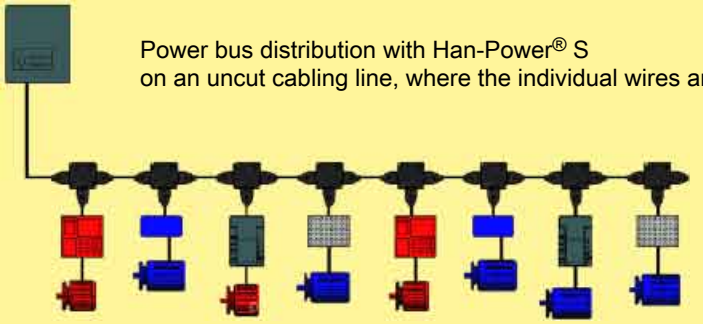
Machine and facility developers are advancing the implementation of device function decentralization with standardized interfaces. The objective is to integrate cost-optimized installation technology for power distribution and consequently to revolutionize and optimize installation technology that has developed over the course of many years.

Conventional wiring is characterized by the point-to-point installation of the signal and power transfers. In practice, this means that each motor is connected to a power cable from the control cabinet. All sensor and actuator terminals, such as for proximity switches or valves, are also wired in parallel.
The introduction of serial bus components for connecting sensors and actuators marked a key step in technical progress in the circuitry area.

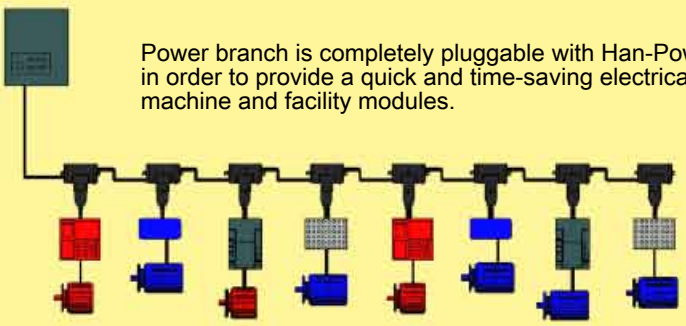
The HARTING Technology Group is supporting this change in installation engineering.

An essential element in this new wiring technology is a power bus system that allows a number of “consumers” to be connected on one cabling line, while still complying with all relevant national and international standards.
This innovation must fall back on existing and standardized interfaces

In principle, it is possible to distinguish two connection types in this installation concept



Power bus distribution with Han-Power® S
on an uncut cabling line, where the individual wires are tapped.



Power branch is completely pluggable with Han-Power® T,
in order to provide a quick and time-saving electrical connection for machine and facility modules.

Features

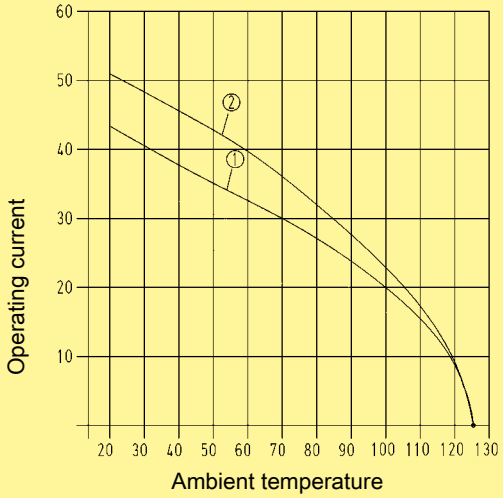
- 6 IDCs + PE for 2.5 mm² up to 6 mm² wire gauge
- No interuption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools

Description

The Han-Power® S connector is suitable for the assembly of serial power bus. Having assembled the energy supply Han-Power® S can be inserted at any place of the power cable. The cable mantle has to be removed, the conductor is placed without interruption in the IDC. Han-Power® S is suitable for cables with single strands manufactured acc. to DIN VDE 0281/ DIN VDE 0295 with wire gauges of 2.5 mm² up to 6 mm². For the distribution of the device Han-Compact® hoods or cable to cable housings are used.
The power supply has to be realized with one Han-Compact® cable to cable hood.

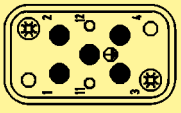
Derating diagram

The power rating 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 according to DIN EN 60 512-5



① Han® Q 4/2 Wire gauge: 4 mm²

② Han® Q 4/2 Wire gauge: 6 mm²



Han® Q 4/2 fully loaded with wire gauge 4x 6 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110

Han-Power® S

Number of contacts				
- Power contacts	4 + PE			
- Signal contacts	2			
Electrical data				
acc. to EN 61 984	**40 A**	**400/690 V**	**6 kV**	**3**
Rated current	40 A			
Rated voltage conductor - ground	400 V			
Rated voltage conductor - conductor	690 V			
Rated impulse voltage	6 kV			
Pollution degree	3			
Rated voltage acc. to UL/CSA	600 V			
Material	Polycarbonate			
Insulation resistance	≥ 10^{10} kΩ			
Limiting temperatures	-40 °C ... 125 °C			
Flammability acc. to UL 94	V 0			
Degree of protection acc. to EN 60 529	IP 65			

Contacts Han® C

Material	copper alloy
Surface	
- hard-silver plated	5 µm Ag
Contact resistance	≤ 0.3 mΩ
Crimp terminal	
- mm²	2.5 - 6 mm²
- AWG	AWG 14 - 10
Max. insulation diameter of single strand	5 mm

Hoods/housings Han-Compact®

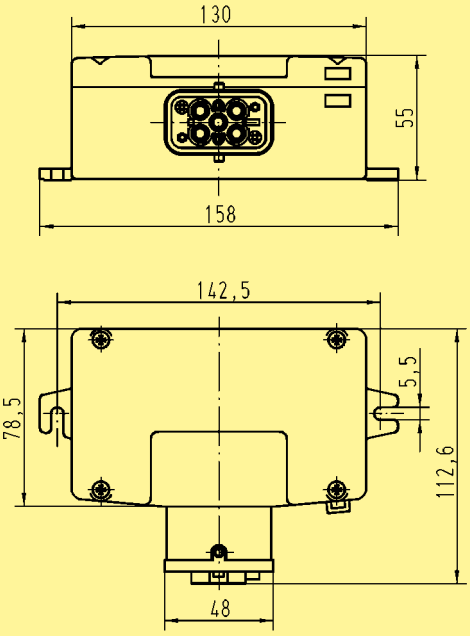
Material	Polycarbonate RAL 9005
Hoods/Housings sealing	NBR
Temperature range	
- Connecting temperature	-25 °C ... 40 °C
- Working temperature	-25 °C ... 80 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

cable

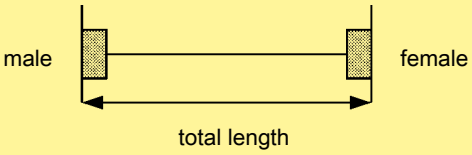
Design of conductor acc. to	• DIN VDE 0281 • DIN VDE 0295
<u>Single strand</u>	
Wire gauge 2.5 mm²	
- Number of single strands	50 x 0.25 mm ∅
- Outer diameter	3.6 mm ∅
Wire gauge 4 mm²	
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm ∅

with 1x Han® Q 4/2

Identification		Part number	Drawing	Dimensions in mm
Han-Power® S				
Power supply Han® Q 4/2; 1 moulded Han-Compact® Hoods	2.5 - 4 mm²	**09 12 008 4804**		
	4 - 6 mm²	**09 12 008 4806**		



Identification		Part number	Drawing	Dimensions in mm
System cables in fixed lengths				
Cable lengths (total length) in m pre-assembled on both sides plastic hood, black top entry cable to cable hood with male insert and hood with female insert cable: 5x 4 mm²	1.5 3 5 10 15 30	**20 88 641 1015** 20 88 641 1030 **20 88 641 1050** **20 88 641 1100** **20 88 641 1150** **20 88 641 1300**		



Stock items in bold type

Han-Power® S with 2x Han® Q 4/2

Features

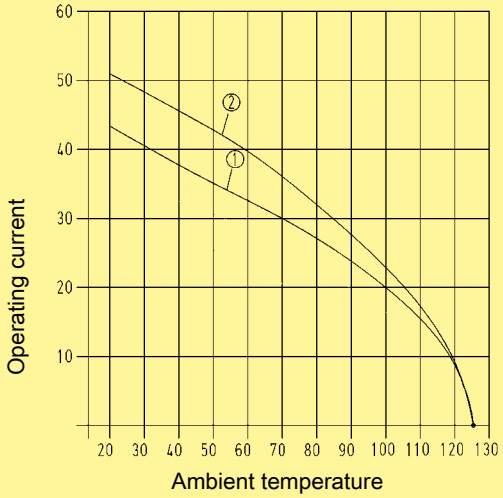
- 6 IDCs + PE for 2.5 mm² up to 6 mm² wire gauge
- No interuption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools

Description

The Han-Power® S connector is suitable for the assembly of serial power bus. Having assembled the energy supply Han-Power® S can be inserted at any place of the power cable. The cable mantle has to be removed, the conductor is placed without interruption in the IDC. Han-Power® S is suitable for cables with single strands manufactured acc. to DIN VDE 0281/ DIN VDE 0295 with wire gauges of 2.5 mm² up to 6 mm². For the distribution of the device Han-Compact® hoods or cable to cable housings are used.
The power supply has to be realized with one Han-Compact® cable to cable hood.

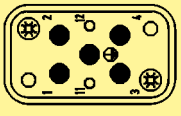
Derating diagram

The power rating 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 according to DIN EN 60 512-5



① Han® Q 4/2 Wire gauge: 4 mm²

② Han® Q 4/2 Wire gauge: 6 mm²



Han® Q 4/2 fully loaded with wire gauge 4x 6 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110

Han-Power® S

Number of contacts				
- Power contacts	4 + PE			
- Signal contacts	2			
Electrical data				
acc. to EN 61 984	**40 A**	**400/690 kV**	**6 kV**	**3**
Rated current	40 A			
Rated voltage conductor - ground		400 V		
Rated voltage conductor - conductor		690 kV		
Rated impulse voltage	6 kV			
Pollution degree	3			
Rated voltage acc. to UL/CSA	600 V			
Material	Polycarbonate			
Insulation resistance	≥ 10^{10} kΩ			
Limiting temperatures	-40 °C ... 125 °C			
Flammability acc. to UL 94	V 0			
Degree of protection acc. to EN 60 529		IP 65		

Contacts Han® C

Material	copper alloy
Surface	
- hard-silver plated	5 µm Ag
Contact resistance	≤ 0.3 mΩ
Crimp terminal	
- mm²	4 - 6 mm²
- AWG	AWG 14 - 10
Max. insulation diameter of single strand	5 mm

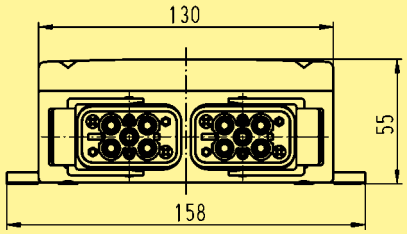
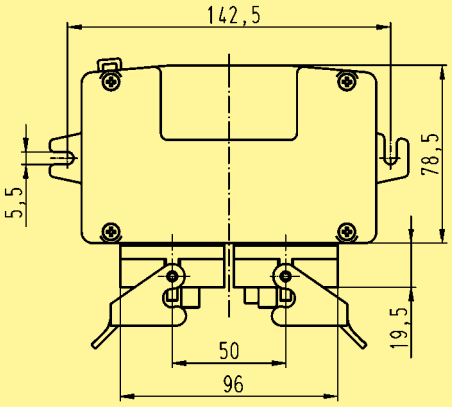
Hoods/housings Han-Compact®

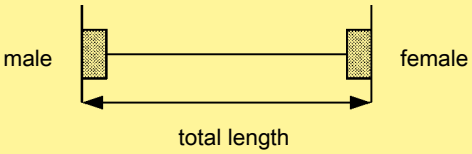
Material	Polycarbonate RAL 9005
Hoods/Housings sealing	NBR
Temperature range	
- Connecting temperature	-25 °C ... 40 °C
- Working temperature	-25 °C ... 80 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

cable

Design of conductor acc. to	• DIN VDE 0281 • DIN VDE 0295
<u>Single strand</u>	
Wire gauge 2.5 mm²	
- Number of single strands	50 x 0.25 mm ∅
- Outer diameter	3.6 mm ∅
Wire gauge 4 mm²	
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm ∅

with 2x Han® Q 4/2

Identification		Part number	Drawing	Dimensions in mm
Han-Power® S Power supply Han® Q 4/2; 2 screwed Han-Compact® Housings, bulkhead mounting	4 - 6 mm²	**09 12 008 4807**	 	

Identification		Part number	Drawing	Dimensions in mm
System cables in fixed lengths				
Cable lengths (total length) in m	1.5	**20 88 641 1015**		
pre-assembled on both sides	3	20 88 641 1030		
plastic hood, black	5	**20 88 641 1050**		
top entry	10	**20 88 641 1100**		
cable to cable hood with male insert	15	**20 88 641 1150**		
and hood with female insert	30	**20 88 641 1300**		
cable: 5x 4 mm²				

Stock items in bold type

Han-Power® S with 1x Han® Q 8/0

Features

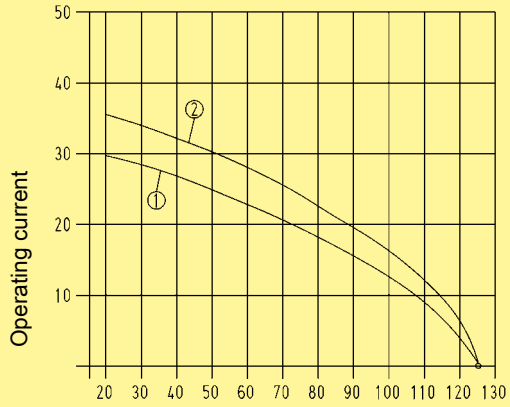
- 6 IDCs + PE for 2.5 mm² up to 6 mm² wire gauge
- No interuption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools

Description

The Han-Power® S connector is suitable for the assembly of serial power bus. Having assembled the energy supply Han-Power® S can be inserted at any place of the power cable. The cable mantle has to be removed, the conductor is placed without interruption in the IDC. Han-Power® S is suitable for cables with single strands manufactured acc. to DIN VDE 0281/ DIN VDE 0295 with wire gauges of 2.5 mm² up to 6 mm². For the distribution of the device Han-Compact® hoods or cable to cable housings are used.
The power supply has to be realized with one Han-Compact® cable to cable hood.

Derating diagram

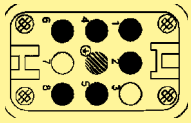
The power rating of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.
Measuring and testing techniques according to DIN EN 60 512-5



Ambient temperature

① Han® Q 8/0 Wire gauge: 2.5 mm²

② Han® Q 8/0 Wire gauge: 4 mm²



Han® Q 8/0 partly loaded with wire gauge 7x 4 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110

Han-Power® S

Number of contacts	
- Power contacts	6 + PE
Electrical data	
acc. to EN 61 984	**25 A 500 V 6 kV 3**
Rated current	25 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage	
acc. to UL/CSA	600 V
Material	Polycarbonate
Insulation resistance	≥ 10^{10} kΩ
Limiting temperatures	-40 °C ... 125 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to EN 60 529	IP 65

Contacts Han E®

Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp terminal	
- mm²	2.5 - 4 mm²
- AWG	AWG 14 - 12

Hoods/housings Han-Compact®

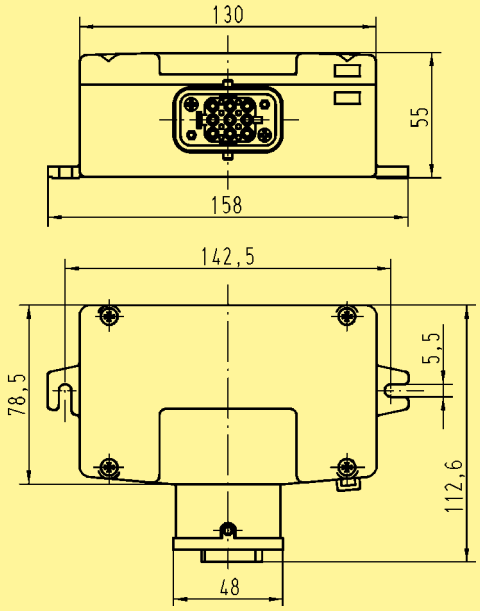
Material	Polycarbonate RAL 9005
Hoods/Housings sealing	NBR
Temperature range	
- Connecting temperature	-25 °C ... 40 °C
- Working temperature	-25 °C ... 80 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

cable

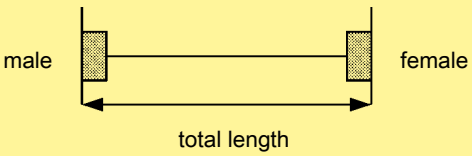
Design of conductor acc. to	• DIN VDE 0281 • DIN VDE 0295
<u>Single strand</u>	
Wire gauge 2.5 mm²	
- Number of single strands	50 x 0.25 mm ∅
- Outer diameter	3.6 mm ∅
Wire gauge 4 mm²	
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm ∅

with 1x Han® Q 8/0

Identification		Part number	Drawing	Dimensions in mm
Han-Power® S				
Power supply Han® Q 8/0; 1 moulded Han-Compact® Hoods	2.5 - 4 mm²	**09 12 008 4801**		
	4 - 6 mm²	**09 12 008 4811**		



Identification		Part number	Drawing	Dimensions in mm
System cables in fixed lengths				
Cable lengths (total length) in m pre-assembled on both sides plastic hood, black top entry cable to cable hood with male insert and hood with female insert cable: 7x 2.5 mm²	1.5 3 5 10 15 30	20 88 841 0015 **20 88 841 0030** 20 88 841 0050 **20 88 841 0100** **20 88 841 0150** **20 88 841 0300**		



Stock items in bold type

Features

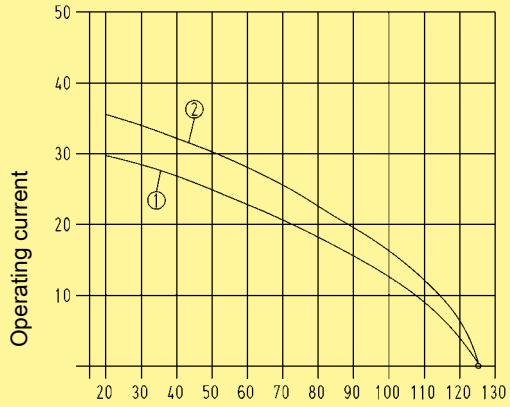
- 6 IDCs + PE for 2.5 mm² up to 6 mm² wire gauge
- No interuption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools

Description

The Han-Power® S connector is suitable for the assembly of serial power bus. Having assembled the energy supply Han-Power® S can be inserted at any place of the power cable. The cable mantle has to be removed, the conductor is placed without interruption in the IDC. Han-Power® S is suitable for cables with single strands manufactured acc. to DIN VDE 0281/ DIN VDE 0295 with wire gauges of 2.5 mm² up to 6 mm². For the distribution of the device Han-Compact® hoods or cable to cable housings are used.
The power supply has to be realized with two Han-Compact® hoods.

Derating diagram

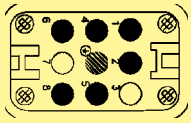
The power rating of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.
Measuring and testing techniques according to DIN EN 60 512-5



Ambient temperature

① Han® Q 8/0 Wire gauge: 2.5 mm²

② Han® Q 8/0 Wire gauge: 4 mm²



Han® Q 8/0 partly loaded with wire gauge 7x 4 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110

Han-Power® S

Number of contacts	
- Power contacts	6 + PE
Electrical data	
acc. to EN 61 984	**25 A 500 V 6 kV 3**
Rated current	25 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage	
acc. to UL/CSA	600 V
Material	Polycarbonate
Insulation resistance	≥ 10^{10} kΩ
Limiting temperatures	-40 °C ... 125 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to EN 60 529	IP 65

Contacts Han E®

Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp terminal	
- mm²	2.5 - 4 mm²
- AWG	AWG 14 - 12

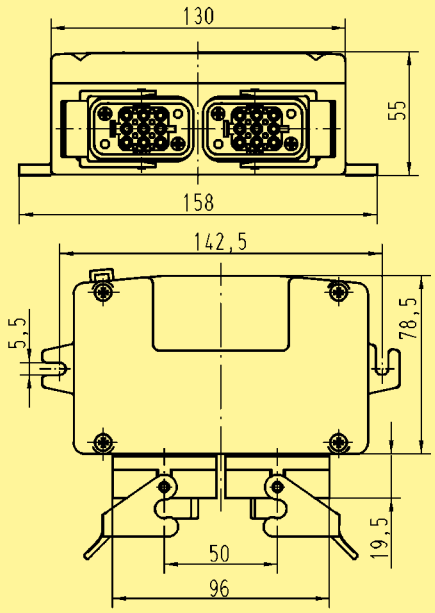
Hoods/housings Han-Compact®

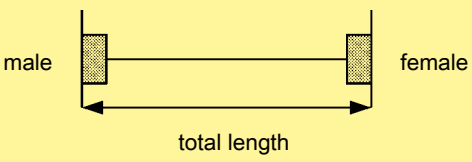
Material	Polycarbonate RAL 9005
Hoods/Housings sealing	NBR
Temperature range	
- Connecting temperature	-25 °C ... 40 °C
- Working temperature	-25 °C ... 80 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

cable

Design of conductor acc. to	• DIN VDE 0281 • DIN VDE 0295
Single strand	
Wire gauge 2.5 mm²	
- Number of single strands	50 x 0.25 mm ∅
- Outer diameter	3.6 mm ∅
Wire gauge 4 mm²	
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm ∅

with 2x Han® Q 8/0

Identification		Part number	Drawing	Dimensions in mm
Han-Power® S Power supply Han® Q 8/0; 2 screwed Han-Compact® Housings, bulkhead mounting	2.5 - 4 mm²	**09 12 008 4802**		

Identification		Part number	Drawing	Dimensions in mm
System cables in fixed lengths Cable lengths (total length) in m pre-assembled on both sides plastic hood, black top entry hood on both sides cable: 7x 2.5 mm²	1.5 3 5 10 15 30	20 88 821 0015 20 88 821 0030 20 88 821 0050 20 88 821 0100 20 88 821 0150 20 88 821 0300		

Stock items in bold type

Han-Power® S with 1x Han® Q 4/2, metal

Features

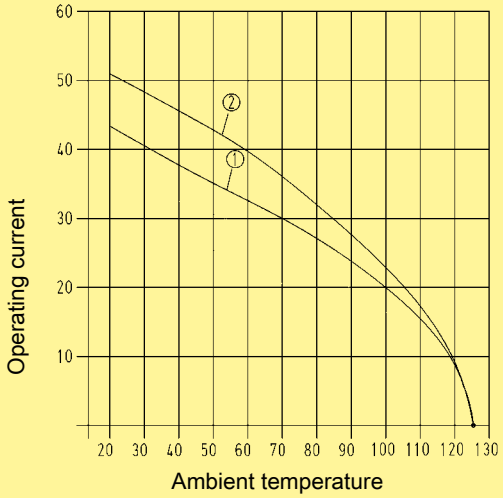
- 6 IDCs/screw terminals + PE for 2.5 mm² up to 6 mm² wire gauge; 4 IDCs + PE for 10 mm² wire gauge
- No interuption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools

Description

Han-Power® S metal version allows the realisation of applications where a high degree of protection is required against dust, splashed water and mechanical shock. This new variant continues to support the user in providing simple installation and maintenance practices but now offers greater protection against harsh industrial environments.
Han-Power® S metal offers optimal handling characteristics and now features an increased wire gauge range. It is now possible to realise power distribution networks with wire gauge up to 10 mm².
The power supply has to be realized with one Han-Compact® cable to cable hood.

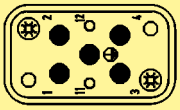
Derating diagram

The power rating 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 according to DIN EN 60 512-5



① Han® Q 4/2 Wire gauge: 4 mm²

② Han® Q 4/2 Wire gauge: 6 mm²



Han® Q 4/2 fully loaded with wire gauge 4x 6 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110

Han-Power® S

Number of contacts				
- Power contacts	4 + PE			
- Signal contacts	2			
Electrical data				
acc. to EN 61 984	**40 A**	**400/690 V**	**6 kV**	**3**
Rated current	40 A			
Rated voltage conductor - ground	400 V			
Rated voltage conductor - conductor	690 V			
Rated impulse voltage	6 kV			
Pollution degree	3			
Rated voltage				
acc. to UL/CSA	600 V			
Material	aluminium die-cast			
Insulation resistance	≥ 10^{10} kΩ			
Limiting temperatures	-40 °C ... 125 °C			
Flammability acc. to UL 94	V 0			
Degree of protection acc. to EN 60 529	IP 65			

Contacts Han® C

Material	copper alloy
Surface	
- hard-silver plated	5 µm Ag
Contact resistance	≤ 0.3 mΩ
Crimp terminal	
- mm²	4 - 10 mm²
- AWG	AWG 12 - 8

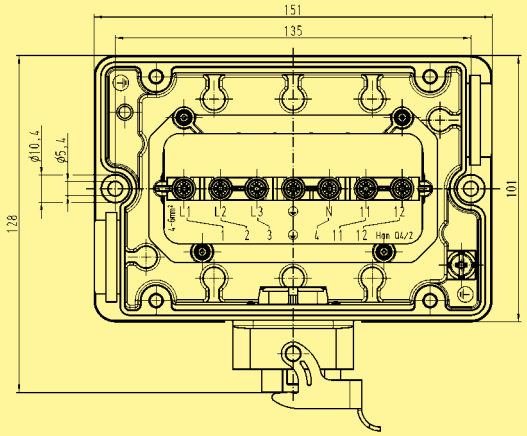
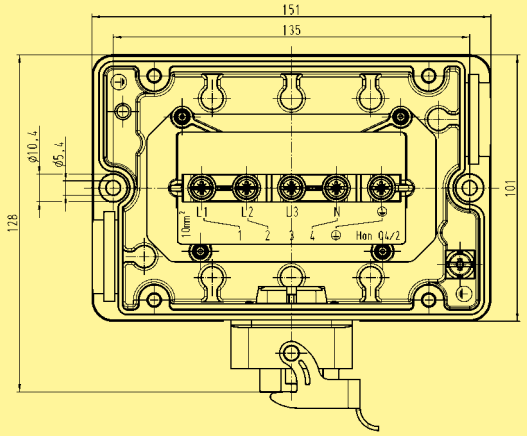
Hoods/housings Han-Compact®

Material	zinc die-cast RAL 9005
Hoods/Housings sealing	NBR
Limiting temperature range	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

cable

Design of conductor acc. to	• DIN VDE 0281 • DIN VDE 0295
Single strand	
Wire gauge 2.5 mm²	
- Number of single strands	50 x 0.25 mm ∅
- Outer diameter	3.6 mm ∅
Wire gauge 4 mm²	
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm ∅

with 1x Han® Q 4/2, metal

Identification		Part number	Drawing	Dimensions in mm
Han-Power® S Power supply Han® Q 4/2; 1 moulded Han-Compact® Housings, bulkhead mounting	4 - 6 mm²	**09 12 008 4901**		
	10 mm²	**09 12 008 4951**		

Stock items in bold type

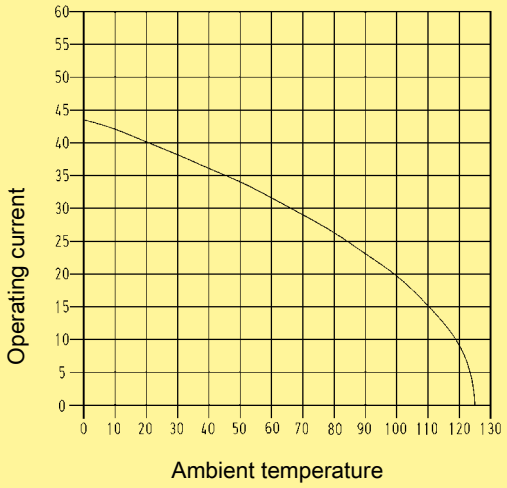
Features

- Per 1 connection for power input, power output and to device
- Male and female inserts finger protected
- 4 power contacts; 2 signal contacts
- Metal housing
- Locking lever stainless steel

Derating diagram

The power rating 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 according to DIN EN 60 512-5



Wire gauge: 4 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110

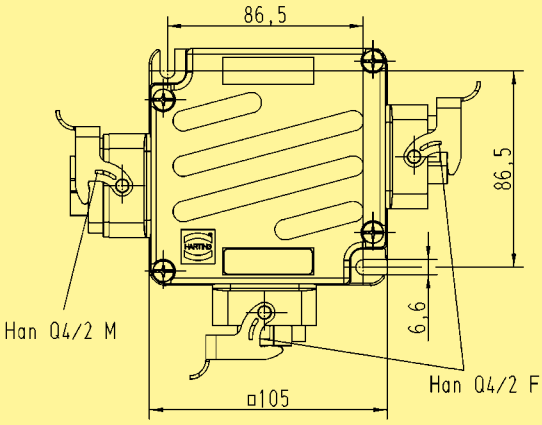
Han-Power® T

Number of contacts				
- Power contacts	4 + PE / ≤ 6 mm²			
- Signal contacts	2 / ≤ 2.5 mm²			
Electrical data				
acc. to EN 61 984	**40 A**	**400/690 V**	**6 kV**	**3**
Rated current	40 A			
Rated voltage conductor - ground		400 V		
Rated voltage conductor - conductor		690 V		
Rated impulse voltage	6 kV			
Pollution degree	3			
Rated current Signal contacts	10 A			
Rated voltage				
acc. to UL/CSA	600 V			
Material	zinc die-cast			
Limiting temperatures	-40 °C ... 125 °C			
Flammability acc. to UL 94	V 0			
Degree of protection acc. to EN 60 529		IP 65		

Hoods/housings Han-Compact®

Material	zinc die-cast
Surface	powder-coated RAL 9005
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

with 3x Han® Q 4/2

Identification		Part number	Drawing	Dimensions in mm
Han-Power® T Power supply with 3x Han® Q 4/2 in Han-Compact® Housings, bulkhead mounting	4 mm²	**09 12 008 4720**		

Stock items in bold type

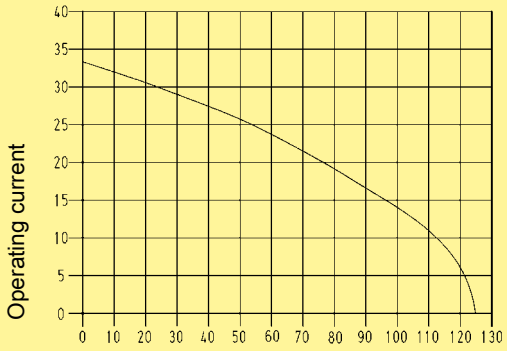
Features

- Per 1 connection for power input, power output and to device
- 4 power contacts
- Plastic housings are integrated in the moulding
- Compact design

Derating diagram

The power rating 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 according to DIN EN 60 512-5



Wire gauge: 2.5 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110

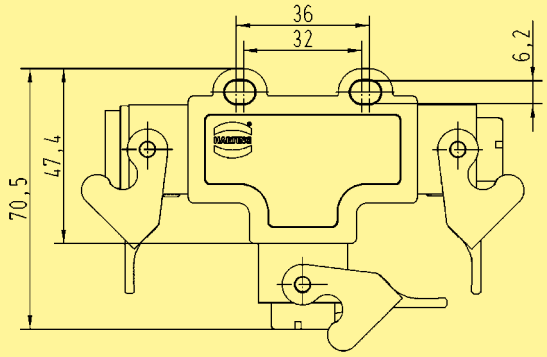
Han-Power® T

Number of contacts				
- Power contacts	5 + PE / ≤ 4 mm²			
Electrical data				
acc. to EN 61 984	**16 A**	**230/400 V**	**4 kV**	**3**
Rated current	16 A			
Rated voltage conductor - ground		230 V		
Rated voltage conductor - conductor		400 V		
Rated impulse voltage	4 kV			
Pollution degree	3			
Rated voltage acc. to UL/CSA	600 V			
Material	Polycarbonate			
Limiting temperatures	-40 °C ... 125 °C			
Flammability acc. to UL 94	V 0			
Degree of protection acc. to EN 60 529		IP 65 / IP 67		

Hoods/housings Han A®

Material	Polycarbonate
Surface	RAL 9005
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 67

with 3x Han® Q 5/0

Identification		Part number	Drawing	Dimensions in mm
Han-Power® T Power supply with 3x Han® Q 5/0 in Han A® Housings, bulkhead mounting	2,5 mm²	**09 12 008 4751**		

Stock items in bold type

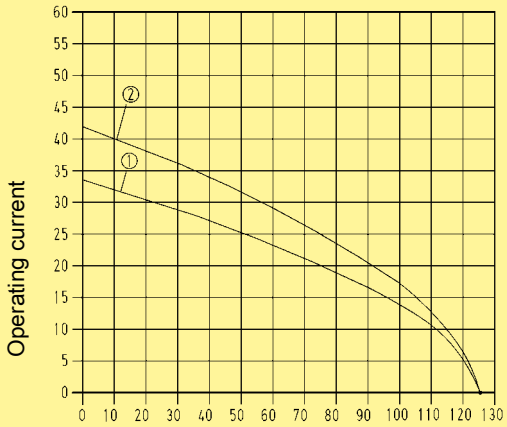
Features

- 4 power contacts Han® C and 2 signal contacts Han D®
- Finger protection
- Leading protective ground with crimp terminal
- Inserts suitable for metal and plastic hoods and housings of Han-Compact® series (not suitable for 19 12 008 0501)
- Coding possibilities by using a coding pin instead of fixing screw

Derating diagram

The power rating 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 according to DIN EN 60 512-5



Wire gauge: ① 2.5 mm²
② 4 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110
Approvals	c UL us

Inserts

Number of contacts	4 + PE			
Electrical data acc. to EN 61 984				
Power side	**40 A**	**400/690 V**	**6 kV**	**3**
Rated current	40 A			
Rated voltage conductor - ground		400 V		
Rated voltage conductor - conductor		690 V		
Rated impulse voltage	6 kV			
Pollution degree	3			
Signal side	**10 A**	**250 V**	**4 kV**	**3**
Rated current	10 A			
Rated voltage	250 V			
Rated impulse voltage	4 kV			
Pollution degree	3			
Rated voltage acc. to UL/CSA	600 / 250 V			
Insulation resistance	≥ 10^{10} Ω			
Material	Polycarbonate			
Limiting temperatures	-40 °C ... 125 °C			
Flammability acc. to UL 94	V 0			
Mechanical working life				
- mating cycles	≥ 500			

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 0.3 mΩ
Crimp terminal	
- mm²	1.5 ... 6 mm² / 0.14 ... 2.5 mm²
- AWG	16 ... 10 / 26 ... 14
Max. insulation diameter	
- Power contacts	5 mm

Plastic hoods/housings

Material	Polycarbonate
Locking element	Polyamide
Flammability acc. to UL 94	V 0
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

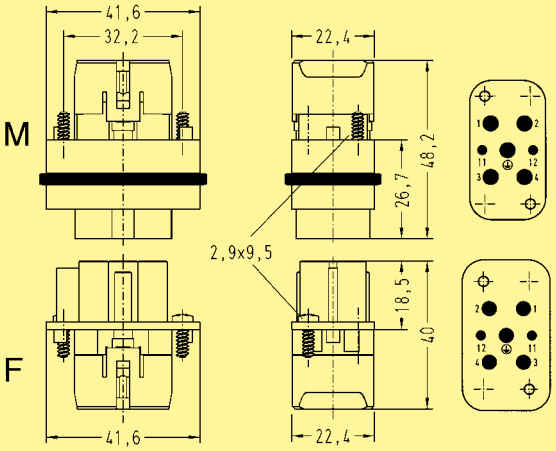
Accessories

Crimping tools	chapter 99

Number of contacts

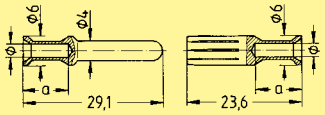
4/2 + ⏚

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp terminal Order crimp contacts separately	**09 12 006 3041**	**09 12 006 3141**		

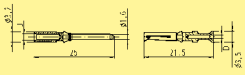


Contact arrangement View from termination side

Identification	Wire gauge (mm²)	Part number Male contact	Part number Female contact	Drawing	Dimensions in mm
Crimp contacts					
Han® C contacts Power contacts					
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**		
Han D® contacts Signal contacts					
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**		
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**		



Wire gauge			∅	Stripping length
1.5	mm²	AWG 16	1.75	9 mm
2.5	mm²	AWG 14	2.25	9 mm
4	mm²	AWG 12	2.85	9.6 mm
6	mm²	AWG 10	3.5	9.6 mm



Wire gauge			∅	Stripping length
0.14-0.37	mm²	AWG 26-22	0.9	8 mm
0.5	mm²	AWG 20	1.1	8 mm
0.75	mm²	AWG 18	1.3	8 mm
1	mm²	AWG 18	1.45	8 mm
1.5	mm²	AWG 16	1.75	8 mm
2.5	mm²	AWG 14	2.25	6 mm

Stock items in bold type

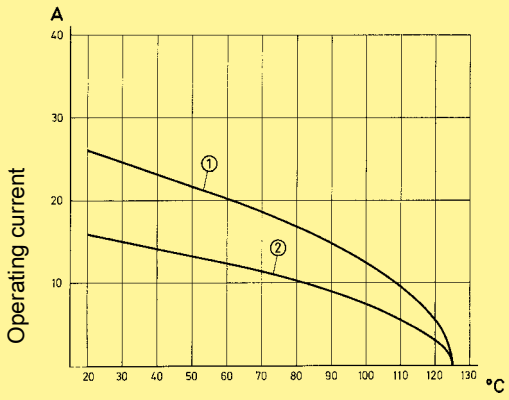
Features

- 8 contact chambers for crimp contacts of Han E® series
- Space-saving and compact design
- Leading protective ground with crimp terminal
- Inserts suitable for metal and plastic hoods and housings of Han-Compact® series
- ISO 23 570 / DESINA conform product

Derating diagram

The power rating 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 according to DIN EN 60 512-5



Ambient temperature

Wire gauge: ① 2.5 mm²
② 1.5 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110
Approvals	

Inserts

Number of contacts	8 + PE
Electrical data acc. to EN 61 984	
Mounted plastic hood	**16 A 500 V 6 kV 3**
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 400/690 V 6 kV 2
Mounted metal hood	16 A 230/400 V 4 kV 3
Rated voltage acc. to UL/CSA	500 V
Insulation resistance	≥ 10^{10} Ω
Material	Polycarbonate
Limiting temperatures	-40 °C ... 125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 1 mΩ
Crimp terminal	
- mm²	0.14 ... 4 mm² partly loaded up to 4 mm² is possible
- AWG	26 ... 12

Plastic hoods/housings

Material	Polycarbonate
Locking element	Polyamide
Flammability acc. to UL 94	V 0
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

Hoods/Housings, metal

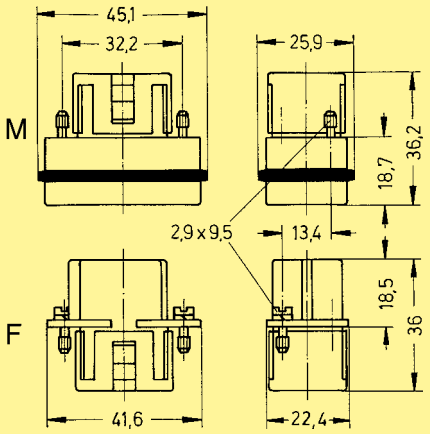
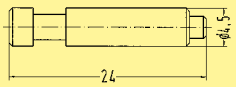
Material	zinc die-cast
Locking element	V2A steel
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

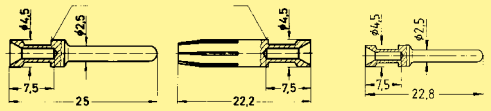
Accessories

Crimping tools	chapter 99

Number of contacts

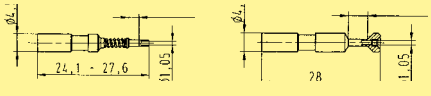
8 + ⏚

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp terminal Order crimp contacts separately	**09 12 008 3001**	**09 12 008 3101**	 Contact arrangement View from termination side	
Coding pin	09 33 000 9954	09 33 000 9954		Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

Identification	Wire gauge (mm²)	Part number Male contact	Part number Female contact	Drawing	Dimensions in mm
Crimp contacts Power contacts				Operating contact Identification / Relay contact	
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**		
	4	**09 33 000 6107**	**09 33 000 6207**		
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		
Relay contact silver plated	0.75-1	09 33 000 6109			
	1.5	09 33 000 6110			
	2.5	09 33 000 6111			

Identification	Wire gauge			Stripping length
no groove	0.14-0.37	mm²	AWG 26-22	7.5 mm
no groove	0.5	mm²	AWG 20	7.5 mm
1 groove*	0.75	mm²	AWG 18	7.5 mm
1 Rille	1	mm²	AWG 18	7.5 mm
2 grooves	1.5	mm²	AWG 16	7.5 mm
3 grooves	2.5	mm²	AWG 14	7.5 mm
no groove	4	mm²	AWG 12	7.5 mm

* on the back crimp collar

F.O. contacts for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321	Crimp zone / Crimp zone 	

Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool 09 99 000 0001 and adjustment gauge 09 99 000 0203

Stock items in bold type

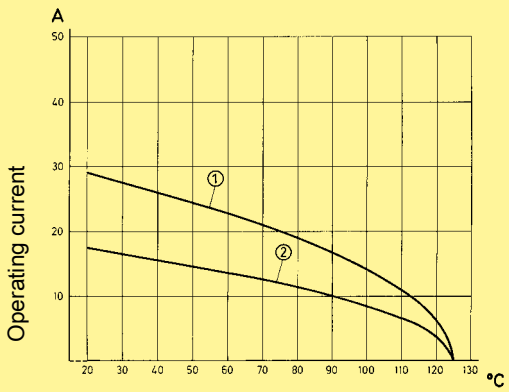
Features

- 5 contact chambers for crimp contacts of Han E® series
- Space-saving and compact design
- Leading protective ground with screw terminal
- Compatible with plastic and metal hoods of series Han® 3 A

Derating diagram

The power rating 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 according to DIN EN 60 512-5



Ambient temperature

Wire gauge: ① 2.5 mm²
② 1.5 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110
Approvals	

Inserts

Number of contacts	5 + PE			
Electrical data				
acc. to EN 61 984	**16 A**	**230/400 V**	**4 kV**	**3**
Rated current	16 A			
Rated voltage conductor - ground		230 V		
Rated voltage conductor - conductor		400 V		
Rated impulse voltage	4 kV			
Pollution degree	3			
Pollution degree 2 also	16 A	320/500 V	4 kV	2
Rated voltage				
acc. to UL/CSA	600 V			
Insulation resistance	≥ 10^{10} Ω			
Material	Polycarbonate			
Limiting temperatures	-40 °C ... 125 °C			
Flammability acc. to UL 94	V 0			
Mechanical working life				
- mating cycles	≥ 500			

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 1 mΩ
Crimp terminal	
- mm²	0.14 ... 2.5 mm²
- AWG	26 ... 14

Plastic hoods/housings

Material	Polycarbonate
Locking element	Polyamide
Flammability acc. to UL 94	V 0
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529	
for coupled connector	IP 67

Hoods/Housings, metal

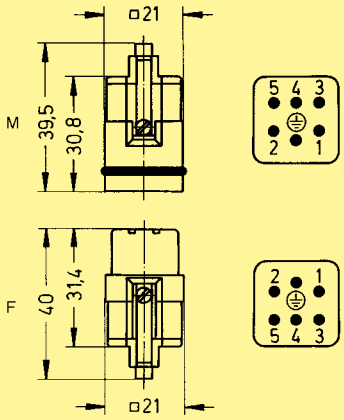
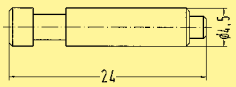
Material	zinc die-cast
Locking element	steel, zinc-plated
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529	
for coupled connector	IP 44 / IP 67 is achieved with seal screw 09 20 000 9918

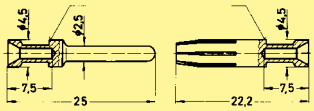
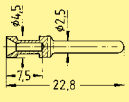
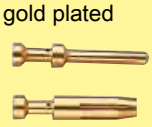
Accessories

Crimping tools	chapter 99
Cable clamps	chapter 40
Sealing screw	chapter 40

Number of contacts

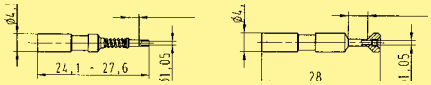
5 + ⏚

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Crimp terminal Order crimp contacts separately	**09 12 005 3001**	**09 12 005 3101**	 Contact arrangement View from termination side	
Coding pin 	09 33 000 9954	09 33 000 9954		Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

Identification	Wire gauge (mm²)	Part number Male contact	Part number Female contact	Drawing	Dimensions in mm
Crimp contacts Power contacts silver plated 	0.14-0.37	09 33 000 6127	09 33 000 6227	Operating contact Identification  Relay contact 	
	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**		
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**		
Relay contact silver plated 	0.75-1	09 33 000 6109			
	1.5	09 33 000 6110			
	2.5	09 33 000 6111			

Identification	Wire gauge			Stripping length
no groove	0.14-0.37	mm²	AWG 26-22	7.5 mm
no groove	0.5	mm²	AWG 20	7.5 mm
1 groove*	0.75	mm²	AWG 18	7.5 mm
1 Rille	1	mm²	AWG 18	7.5 mm
2 grooves	1.5	mm²	AWG 16	7.5 mm
3 grooves	2.5	mm²	AWG 14	7.5 mm

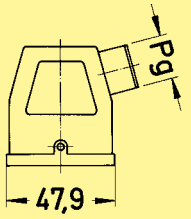
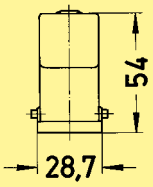
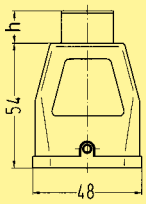
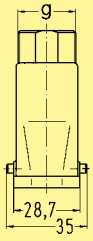
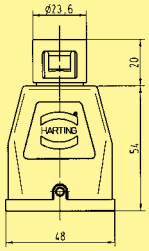
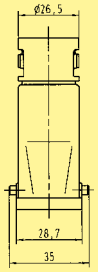
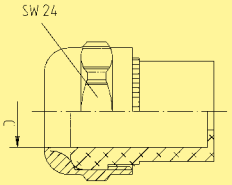
* on the back crimp collar

F.O. contacts for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321	Crimp zone Crimp zone 	

Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool 09 99 000 0001 and adjustment gauge 09 99 000 0203

Stock items in bold type

thermoplastic / metal

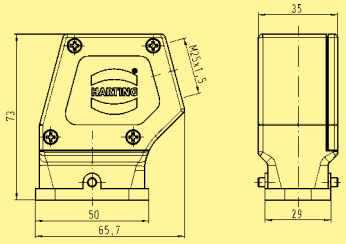
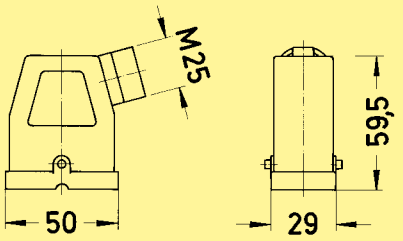
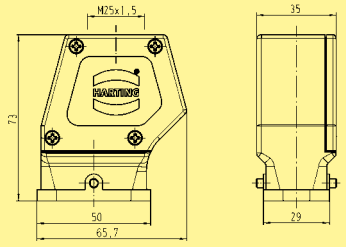
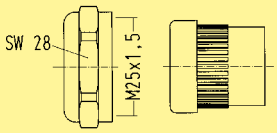
Identification	Part number		Drawing	Dimensions in mm
Hoods				
Hoods Thermoplastic side-entry Cable gland order separately 	**09 12 008 0527**	Pg 16		
Hoods Thermoplastic top-entry Cable gland order separately 	**19 12 008 0429** **09 12 008 0427** **09 12 008 0429**	M 25 Pg 16 Pg 21	 	
Hoods Thermoplastic top-entry Cable gland order separately 	09 12 008 0428	Pg 16	 	
Cable seal Thermoplastic for hoods Thrust bolt and insert 	**09 00 000 5059** **19 12 000 5157** **19 12 000 5158** **09 00 000 5157** **09 00 000 5158**	Pg 16 M 25 M 25 Pg 21 Pg 21		

h	g
14	M 25x1.5
13	Pg 16
13	Pg 21

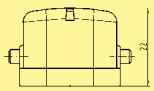
	cable	
	min.	max.
09 00 000 5059	11.5 mm	15.5 mm
19 12 000 5157	10.5 mm	14 mm
19 12 000 5158	14 mm	17 mm
09 00 000 5157	14 mm	18 mm
09 00 000 5158	17 mm	20.5 mm

Stock items in bold type

thermoplastic / metal

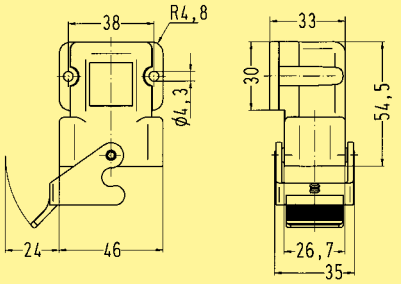
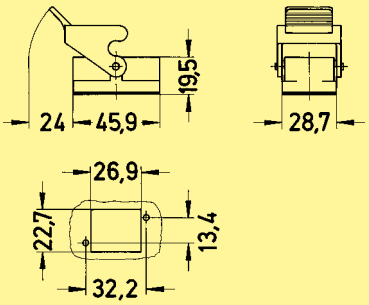
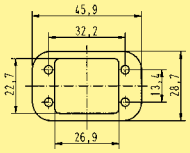
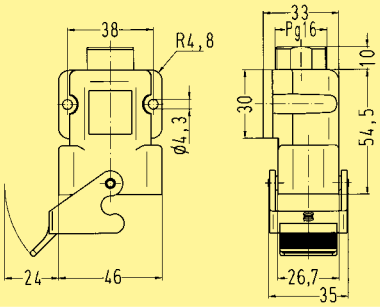
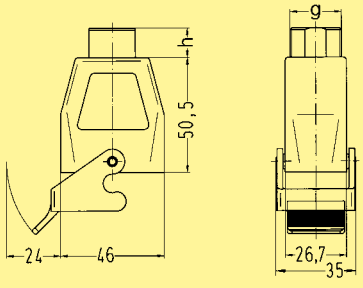
Identification	Part number		Drawing	Dimensions in mm
Hoods **Hoods** Metal side-entry Cable gland order separately 	**19 12 008 0526**	M 25		
Hoods Metal side-entry Cable gland order separately 	black chromated 19 12 008 0501 black powder coated 19 12 708 0501 matt nickel plated 19 12 008 0502	M 25 M 25 M 25		
Hoods Metal top-entry Cable gland order separately 	**19 12 008 0426**	M 25		
Cable seal Metal for hoods Thrust bolt and insert 	19 12 000 5057 **19 12 000 5058**	M 25 M 25		

	cable	
	min.	max.
19 12 000 5057	10.5 mm	14 mm
19 12 000 5058	14 mm	17 mm

Identification	Part number for male insert	Part number for female insert	Drawing	Dimensions in mm
Protection covers Thermoplastic for male insert 	without sealing 09 12 008 5407	with sealing 09 12 008 5408		

Stock items in bold type

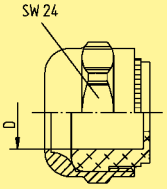
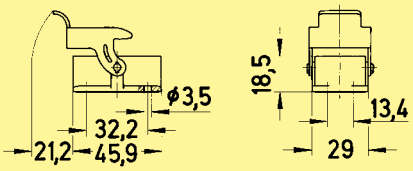
thermoplastic / metal

Identification	Part number		Drawing	Dimensions in mm
Housings				
Housings, bulkhead mounting Thermoplastic angled	**09 12 008 0902**	Pg 16		
Housings, bulkhead mounting Thermoplastic	**09 12 008 0327**	Pg 16		
Gasket for housings bulkhead mounting Han® Q 8/0	09 12 000 9912			
Housings, surface mounting Thermoplastic angled Cable gland order separately	09 12 008 0901	Pg 16		
Hoods, cable to cable Thermoplastic Cable gland order separately	09 12 008 0727 19 12 008 0729	Pg 16 M 25		

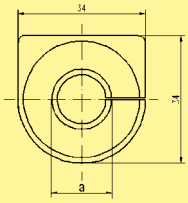
h	g
13	Pg 16
14	M 25x1.5

Stock items in bold type

thermoplastic / metal

Identification	Part number		Drawing	Dimensions in mm
Housings **Cable seal** Thermoplastic for housings Thrust bolt and insert 	09 00 000 5058	Pg 16		cable: min. 11.5 mm, max. 15.5 mm (09 00 000 5058)
Housings, bulkhead mounting Metal 	black chromated **09 12 008 0301** black powder coated **09 12 708 0301** matt nickel plated **09 12 008 0303**			

Stock items in bold type

Identification		Part number	Drawing	Dimensions in mm
Panel feed through sealings Cable diameter	7 - 10 mm² 10 - 13 mm² 13 - 16 mm² 16 - 19 mm² 19 - 22 mm²	**09 12 000 9969** **09 12 000 9970** **09 12 000 9971** **09 12 000 9972** **09 12 000 9973**		
	blind grommet	**09 12 000 9974**		

Stock items in bold type

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Espelkamp / Germany – Plant 1

Espelkamp / Germany – Plant 2

Espelkamp / Germany – Plant 3

Espelkamp / Germany – Plant 4

Espelkamp / Germany – Plant 5

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