Contents

Features

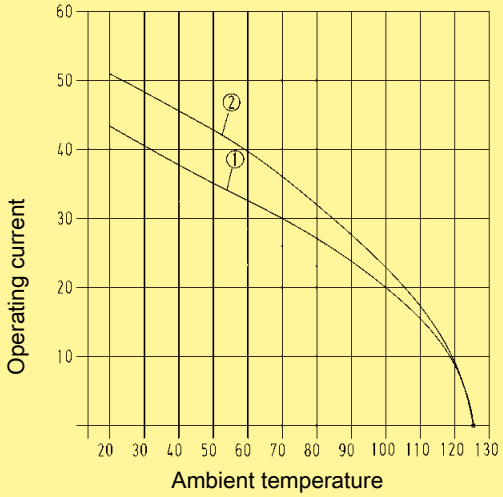
- 6 IDCs + PE for 2.5 mm² up to 6 mm² wire gauge
- No interuption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools

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 EN 60 228 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. This power supply has to be realized with one Han-Compact® cable to cable hood.

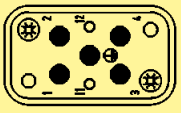
Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.
Measuring and testing techniques 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 EN 60 664-1

Han-Power® S

Number of contacts	
- Power contacts	4 + PE
- Signal contacts	2
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} kΩ
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
Degree of protection acc. to DIN EN 60 529	IP 65

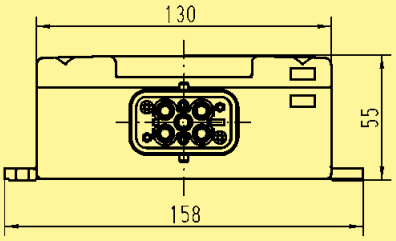
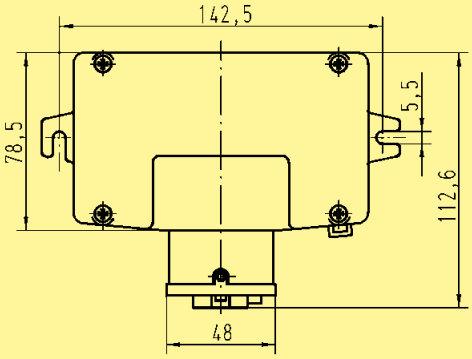
Contacts

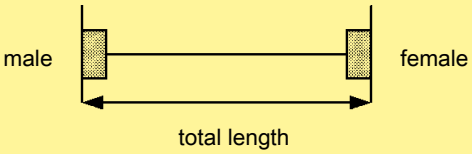
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 0.3 mΩ
Crimp terminal	
- mm²	2.5 ... 6 mm² / 0.14 ... 2.5 mm²
- AWG	14 ... 10 / 26 ... 14
Max. insulation diameter	
- Power contacts	5 mm

Cables

Design of conductor acc. to	DIN VDE 0281 DIN EN 60 228
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
Wire gauge	6 mm²
- Number of single strands	84 x 0.3 mm ∅
- Outer diameter	4.8 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	**20 88 641 1015**		
	3	20 88 641 1030		
	5	**20 88 641 1050**		
	10	**20 88 641 1100**		
	15	**20 88 641 1150**		
	30	**20 88 641 1300**		

Stock items in bold type

Han-Power® S with 2x Han® Q 4/2

Features

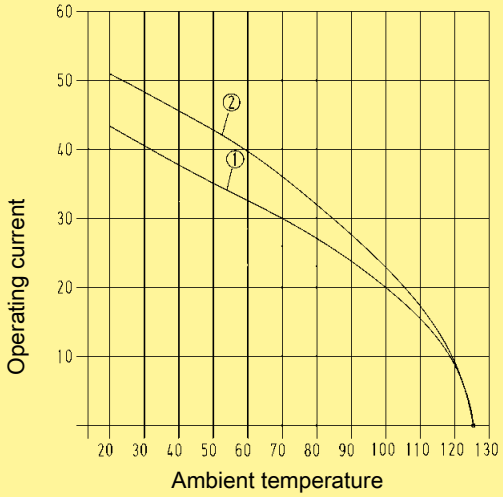
- 6 IDCs + PE for 4 mm² up to 6 mm² wire gauge
- No interuption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools

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 EN 60 228 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. This power supply has to be realized with one Han-Compact® hood.

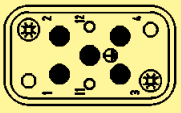
Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.
Measuring and testing techniques 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 EN 60 664-1

Han-Power® S

Number of contacts	
- Power contacts	4 + PE
- Signal contacts	2
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} kΩ
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
Degree of protection acc. to DIN EN 60 529	IP 65

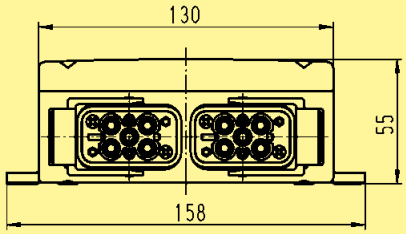
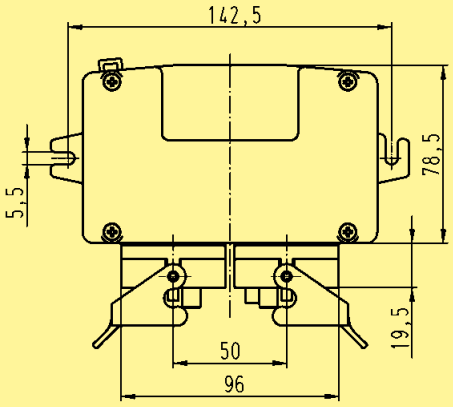
Contacts

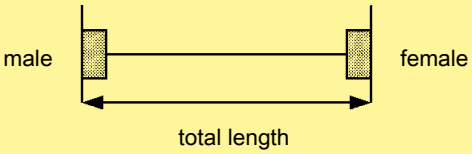
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 0.3 mΩ
Crimp terminal	
- mm²	4 ... 6 mm² / 0.14 ... 2.5 mm²
- AWG	14 ... 10 / 26 ... 14
Max. insulation diameter	
- Power contacts	5 mm

Cables

Design of conductor acc. to	DIN VDE 0281 DIN EN 60 228
Single strand	
Wire gauge	4 mm²
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm
Wire gauge	6 mm²
- Number of single strands	84 x 0.3 mm ∅
- Outer diameter	4.8 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 4/2 with Power Supply 24 V

Features

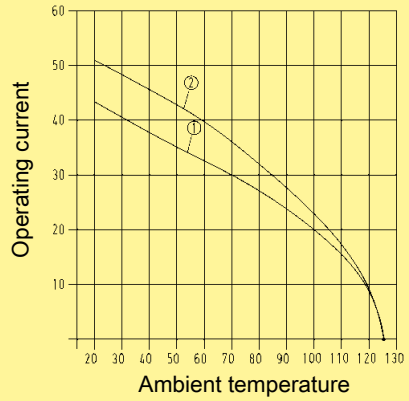
- 6 IDC's + PE for 4.0 mm² to 6.0 mm² wires
- No interruption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools
- 24 V power supply integrated
- Secondary connection 2 x M12

Assembly Details

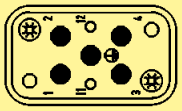
The Han-Power® S connector is suitable for the assembly of serial power bus. Having assembled the energy supply Han-Power® S can be inserted at any place of the power cable. The cable mantle has to be removed, the conductor is placed without interruption in the IDC.
Han-Power® S is suitable for cables with single strands manufactured acc. to DIN VDE 0281/ DIN EN 60 228 with wire gauges of 4.0 mm² up to 6 mm². For the distribution of the device Han-Compact® hoods or cable to cable housings are used. This power supply can be used with Han-Compact® hood.

Current carrying capacity base element

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.
Measuring and testing techniques 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 4 x 6 mm²

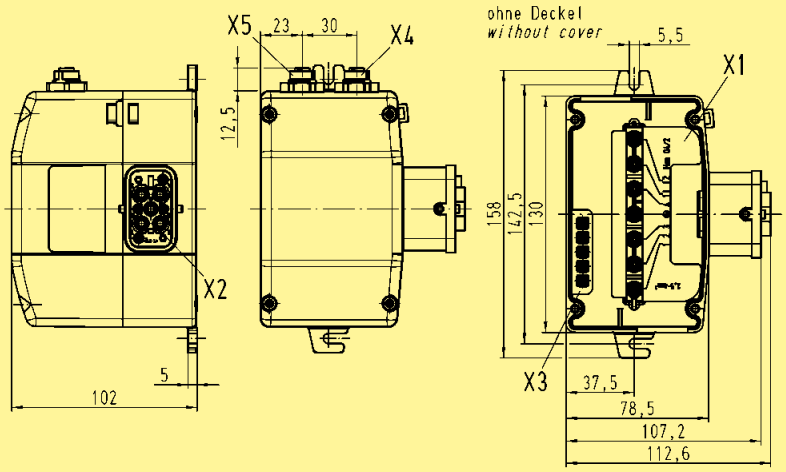
Technical characteristics

Specifications	DIN EN 61 984 DIN EN 60 664-1
Han-Power® S	
Number of contacts	
- Power contacts	4 + PE
- Signal contacts	2
Electrical data acc. to EN 61 984	
Power side	**40 A 230/400 V 4 kV 2**
Rated current	40 A
Rated voltage conductor - ground	230 V
Rated voltage conductor - conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	2
Signal side	**10 A 250 V 4 kV 2**
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	2
Rated voltage acc. to UL/CSA	600 / 250 V
Insulation resistance	≥ 10^{10} kΩ
Material	polycarbonate
Limiting temperatures	
- without derating	-20 °C ... +50 °C
- with derating	-20 °C ... +70 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
Degree of protection acc. to DIN EN 60 529	IP 65
Cables	
Design of conductor acc. to	DIN VDE 0281 DIN EN 60 228
Wire gauge	4 mm²
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm
Wire gauge	6 mm²
- Number of single strands	84 x 0.3 mm ∅
- Outer diameter	4.8 mm
Technical data power supply	
Input data	100 V ... 240 V AC (50 Hz / 60 Hz)
Output data	24 V DC / 2 A (adjustable from 23 V ... 29 V) Pre-setting: 24.5 V ± 0,5 %
Efficiency	>86% (at 230 V AC)
Reverse voltage	max 32 V
Tide overtime for power-fail	>20 ms
Low voltage system	SELV / PELV
Additionally features	short-circuit proof open-circuit proof automatic switch off in the case of short-circuit

Green LED marks normal operating condition.

Power Distribution

Han-Power® S 1x Han® Q 4/2 with Power Supply 24 V

Identification	Part-Number	Drawings	Dimensions in mm
Han-Power® S with 1 x Han® Q 4/2 with power supply 24 V	09 12 008 4610		

Han-Power® S with 1 x Han® Q 4/2 with Maintenance Switch

Features

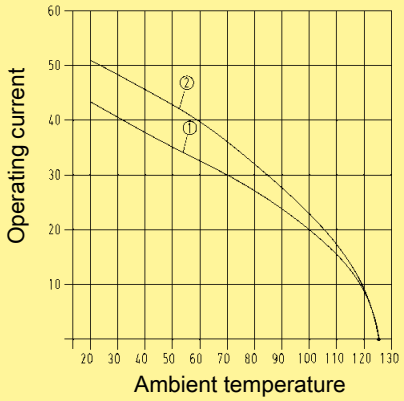
- 6 IDC's + PE for 4.0 mm² to 6.0 mm² wires
- No interruption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools
- Line breakout switch

Assembly Details

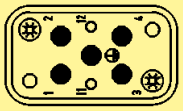
The Han-Power® S connector is suitable for the assembly of serial power bus. Having assembled the energy supply Han-Power® S can be inserted at any place along the power cable. The cable outer sheath has to be removed, the conductor is placed without interruption in the IDC.
Han-Power® S is suitable for cables with single strands manufactured acc. to DIN VDE 0281/ DIN EN 60 228 with wire gauges of 4.0 mm² to 6.0 mm². For the distribution of the device Han-Compact® hoods or cable to cable housings are used.
This power supply can be used with Han-Compact® hood.

Current carrying capacity base element

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.
Measuring and testing techniques 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 4 x 6 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN EN 60 664-1 IEC 61 429-2
Han-Power® S	
Number of contacts	
- Power contacts	4 + PE
- Signal contacts	2
Electrical data acc. to EN 61 984	
Power side	
Supply to connector	**5 A 230/400 V 4 kV 2**
Rated current	5 A
Rated voltage conductor - ground	230 V
Rated voltage conductor - conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	2
Frequency	50 Hz
Energy bus	40 A 230/400 V 4 kV 2
Signal side	**10 A 250 V 4 kV 2**
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	2
Rated voltage acc. to UL/CSA	600 / 250 V
Material	polycarbonate
Limiting temperatures	-25 °C ... +55 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
- Switching cycles	≥ 50.000
Degree of protection acc. to DIN EN 60 529	IP 65
Cables	
Design of conductor acc. to	DIN VDE 0281 DIN EN 60 228
Wire gauge	4 mm²
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm
Wire gauge	6 mm²
- Number of single strands	84 x 0.3 mm ∅
- Outer diameter	4.8 mm

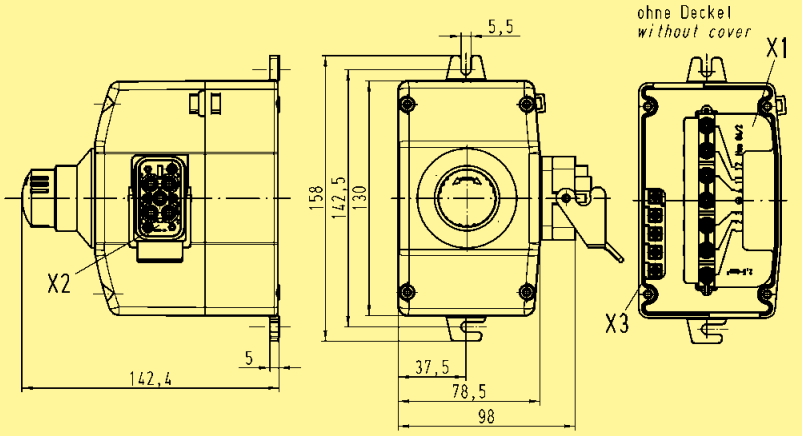
Technical data of switches

Electrical data acc. to IEC/EN 61058-1 (VDE 0630 sect. 1) for switch-disconnectors

Rated voltage	250 V~ / 400 V~
Rated current	16 (10) A / 10 (5) A

Power Distribution

Han-Power® S 1 x Han® Q 4/2 with Maintenance Switch

Identification	Part-Number	Drawings	Dimensions in mm
Han-Power® S with 1 x Han® Q 4/2 with maintenance switch	09 12 008 4620		

Features

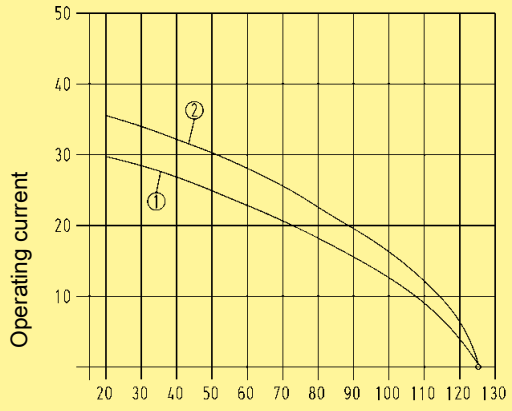
- 6 IDCs + PE for 2.5 mm² up to 6 mm² wire gauge
- No interuption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools

Description

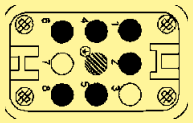
The Han-Power® S connector is suitable for the assembly of serial power bus. Having assembled the energy supply Han-Power® S can be inserted at any place of the power cable. The cable mantle has to be removed, the conductor is placed without interruption in the IDC.
Han-Power® S is suitable for cables with single strands manufactured acc. to DIN VDE 0281/ DIN EN 60 228 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. This power supply has to be realized with one Han-Compact® cable to cable hood.

Current carrying capacity

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



① Han® Q 4/2 Wire gauge: 2.5 mm²
② Han® Q 4/2 Wire gauge: 4 mm²
② Han® Q 4/2 Wire gauge: 6 mm²



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

Technical characteristics

Specifications	DIN EN 61 984 DIN EN 60 664-1

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
Insulation resistance	≥ 10^{10} kΩ
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
Degree of protection acc. to DIN EN 60 529	IP 65

Contacts

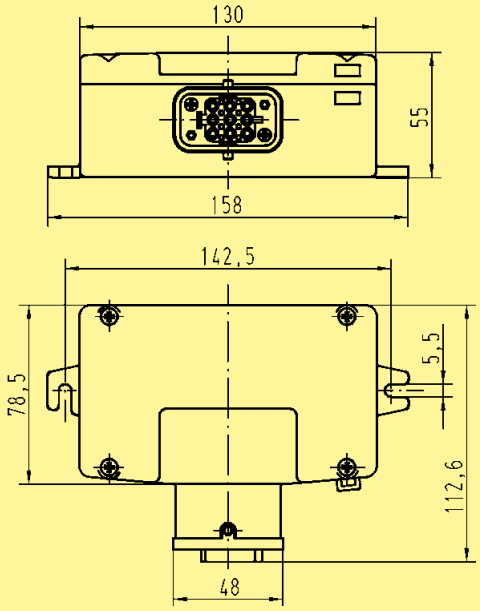
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp terminal	
- mm²	2.5 ... 6 mm²
- AWG	14 ... 10

Cables

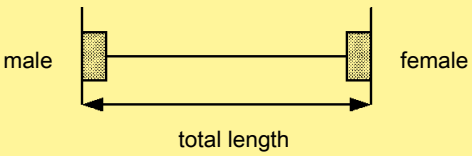
Design of conductor acc. to	DIN VDE 0281 DIN EN 60 228
<u>Single strand</u>	
Wire gauge	2.5 mm²
- Number of single strands	50 x 0.25 mm ∅
- Outer diameter	3.6 mm
Wire gauge	4 mm²
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm
Wire gauge	6 mm²
- Number of single strands	84 x 0.3 mm ∅
- Outer diameter	4.8 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	1.5	20 88 841 0015		
pre-assembled on both sides	3	**20 88 841 0030**		
plastic hood, black	5	20 88 841 0050		
top entry	10	**20 88 841 0100**		
cable to cable hood with male insert	15	**20 88 841 0150**		
and hood with female insert	30	**20 88 841 0300**		
cable: 7x 2.5 mm²				



Stock items in bold type

Features

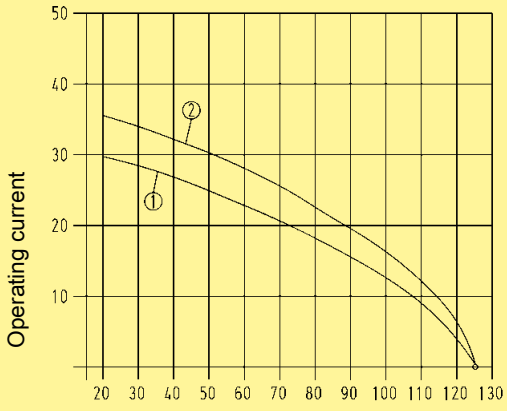
- 6 IDCs + PE for 2.5 mm² up to 4 mm² wire gauge
- No interuption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools

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 EN 60 228 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. This power supply has to be realized with two Han-Compact® hoods.

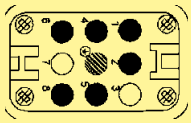
Current carrying capacity

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



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 EN 60 664-1

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
Insulation resistance	≥ 10^{10} kΩ
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
Degree of protection acc. to DIN EN 60 529	IP 65

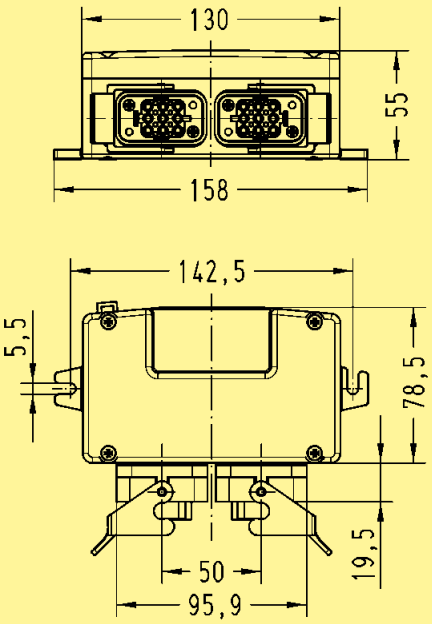
Contacts

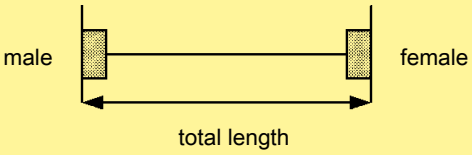
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp terminal	
- mm²	2.5 ... 4 mm²
- AWG	14 ... 12

Cables

Design of conductor acc. to	DIN VDE 0281 DIN EN 60 228
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

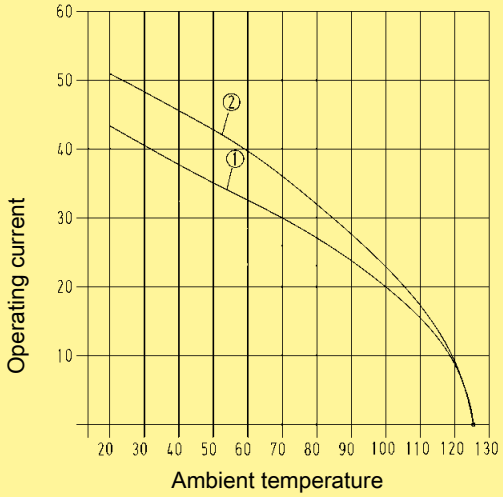
- 6 IDCs/screw terminals + PE for 4 mm² up to 6 mm² wire gauge; 4 IDCs + PE for 10 mm² wire gauge
- No interuption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools

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.
This power supply has to be realized with one Han-Compact® hood.

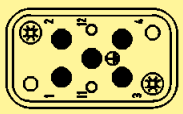
Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.
Measuring and testing techniques 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 EN 60 664-1

Han-Power® S

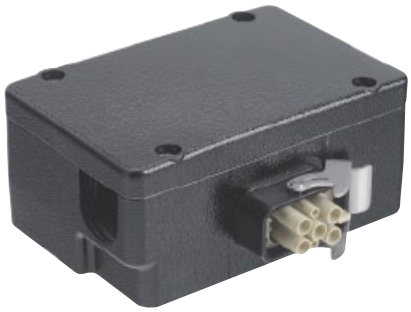
Number of contacts	
- Power contacts	4 + PE
- Signal contacts	2
Electrical data acc. to EN 61 984	
Power side	**40 A 400/690 V 6 kV 3**
Rated current	40 A
Rated voltage conductor - ground	400 V
Rated voltage conductor - conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Signal side	**10 A 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} kΩ
Material	aluminium die-cast
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
Degree of protection acc. to DIN EN 60 529	IP 65

Contacts

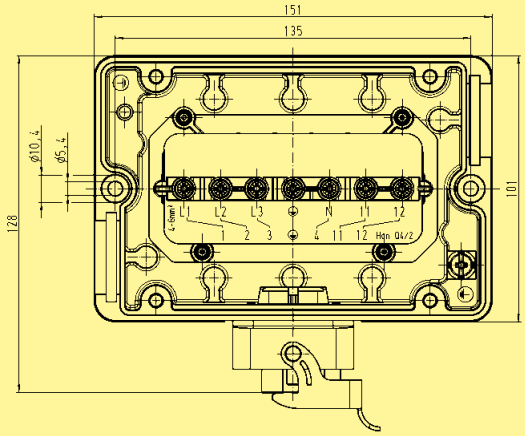
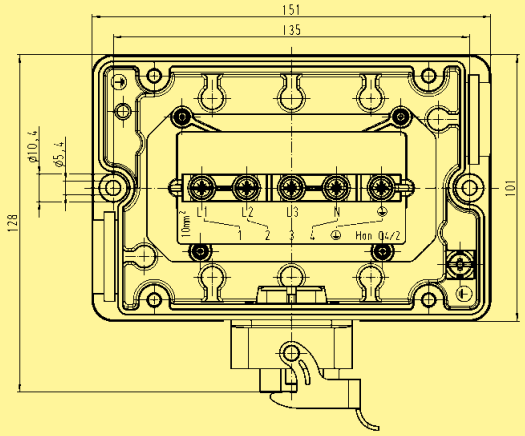
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 0.3 mΩ
Crimp terminal	
- mm²	4 ... 10 mm² / 0.14 ... 2.5 mm²
- AWG	12 ... 8 / 26 ... 14
Max. insulation diameter	
- Power contacts	5 mm

Cables

Design of conductor acc. to	DIN VDE 0281 DIN EN 60 228
Single strand	
Wire gauge	4 mm²
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm
Wire gauge	6 mm²
- Number of single strands	84 x 0.3 mm ∅
- Outer diameter	4.8 mm
Wire gauge	10 mm²
- Number of single strands	80 x 0.4 mm ∅
- Outer diameter	6.3 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 screwed Han-Compact® Housings, bulkhead mounting	4 - 6 mm²	**09 12 008 4901**		
	10 mm²	**09 12 008 4951**		

Stock items in bold type

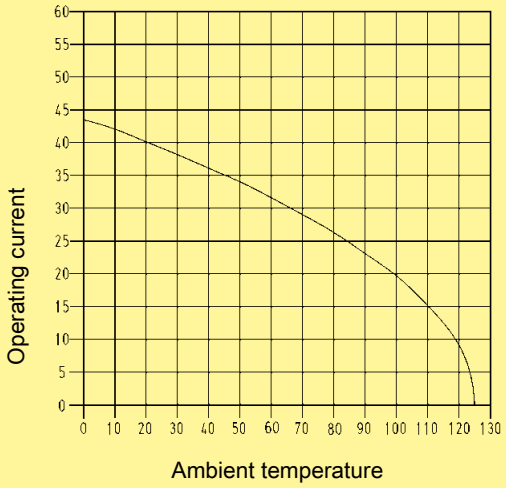
Features

- 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

Current carrying capacity

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

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: 4 mm²

Technical characteristics

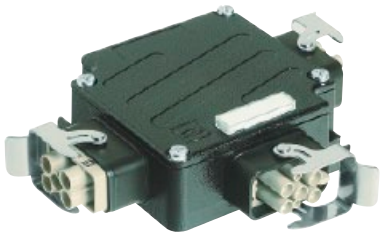
Specifications	DIN EN 61 984 DIN EN 60 664-1

Han-Power® T

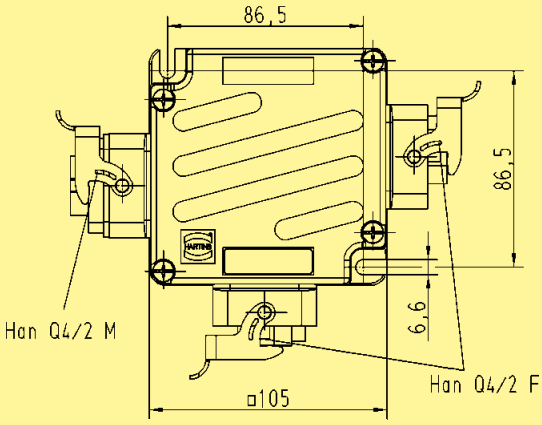
Number of contacts	
- Power contacts	4 + PE
- Signal contacts	2
Electrical data acc. to EN 61 984	
Power side	**40 A 400/690 V 6 kV 3**
Rated current	40 A
Rated voltage conductor - ground	400 V
Rated voltage conductor - conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Signal side	**10 A 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	zinc die-cast
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
Degree of protection acc. to DIN EN 60 529	IP 65

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	4 ... 6 mm² / 0.14 ... 2.5 mm²
- AWG	12 ... 10 / 26 ... 14
Max. insulation diameter	
- Power contacts	5 mm



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

- 1 connection for power input and power output each
- 1 T-connection to device
- 3 power contacts; 4 signal contacts
- Metal housing
- Locking lever Han-Easy Lock®

Technical characteristics

Specifications	DIN EN 61 984 DIN EN 60 664-1

Han-Power® T

Number of contacts	
- Power contacts	3
- Signal contacts	4
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	**16 A 400 V 6 kV 3**
Rated current	16 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL/CSA	600 / V
Insulation resistance	≥ 10^{10} Ω
Material	zinc die-cast
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
Degree of protection acc. to DIN EN 60 529	IP 65

Contacts

Han® C module with Crimp terminal *

Number of contacts	3
Electrical data acc. to EN 61 984	**40 A 400/690 V 6 kV 3**
Material	polycarbonate
Insulation resistance	≥ 10^{10} Ω
Temperature range	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Crimp terminal	
- mm²	2.5 ... 6 mm²
- AWG	14 ... 10

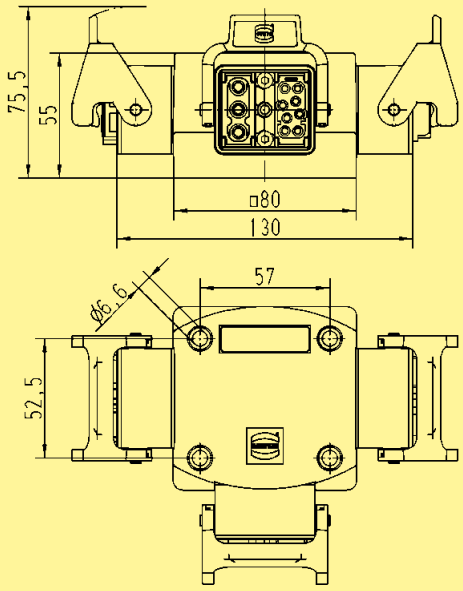
Han® EE module with Crimp terminal *

Number of contacts	8
Electrical data acc. to EN 61 984	**16 A 400 V 6 kV 3**
Material	polycarbonate
Insulation resistance	≥ 10^{10} Ω
Temperature range	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Crimp terminal	
- mm²	0.14 ... 2.5 mm²
- AWG	26 ... 14

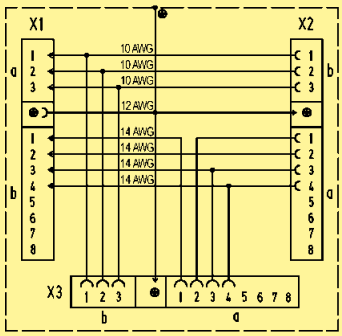
* for more technical details see chapter 06

with 3x Han-Modular® Twin

Identification	Part number	Drawing	Dimensions in mm
Han-Power® T Power supply with 3x Han-Modular® Twin	**09 12 008 4760**		



Wiring diagram



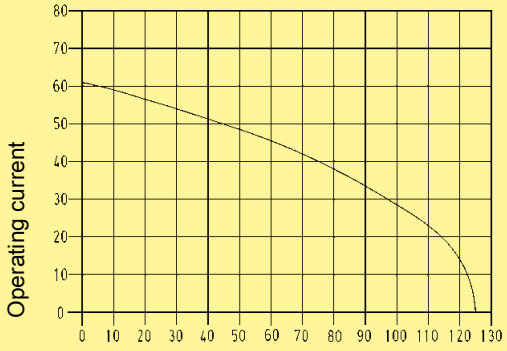
Features

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

Current carrying capacity

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

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: 6 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN EN 60 664-1

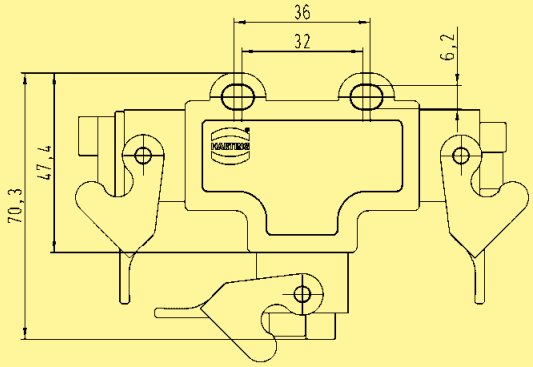
Han-Power® T

Number of contacts	
- Power contacts	2 + PE
Electrical data acc. to EN 61 984	
Power side	**40 A 400 V 6 kV 3**
Rated current	40 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
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
Degree of protection acc. to DIN EN 60 529	IP 65 / IP 67

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp terminal	
- mm²	2.5 ... 10 mm²
- AWG	14 ... 8

with 3x Han® Q 2/0

Identification		Part number	Drawing	Dimensions in mm
Han-Power® T Power supply with 3x Han® Q 2/0 in Han® 3 A Housings, bulkhead mounting 	6 mm²	**09 12 008 4752**		

Stock items in bold type

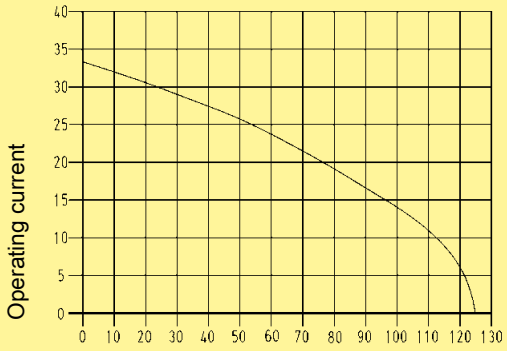
Features

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

Current carrying capacity

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

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: 2.5 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN EN 60 664-1

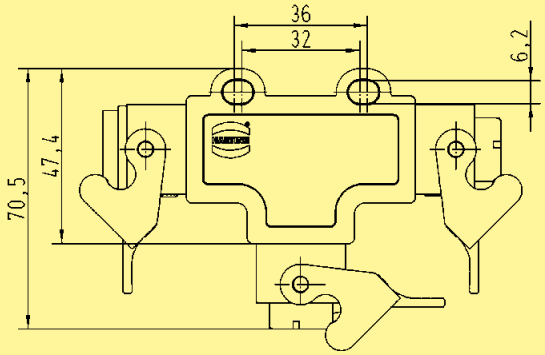
Han-Power® T

Number of contacts	
- Power contacts	4 + 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
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
Degree of protection acc. to DIN EN 60 529	IP 65 / IP 67

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

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® 3 A Housings, bulkhead mounting	2,5 mm²	**09 12 008 4751**		

Stock items in bold type

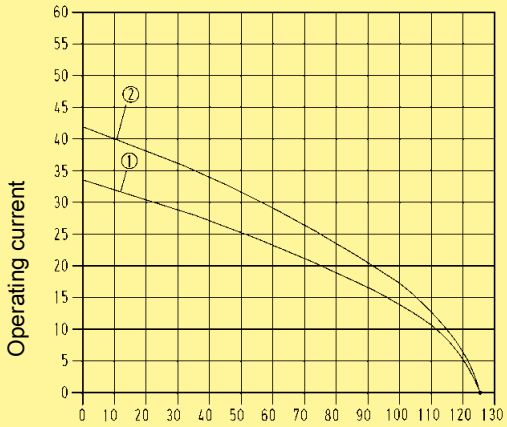
Features

- 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, 19 12 708 0501 and 19 12 008 0502)
- 3 coding possibilities by using a coding pin instead of fixing screw

Current carrying capacity

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

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: ① 2.5 mm²
② 4 mm²

Technical characteristics

Specifications	DIN EN 60 664-1 DIN EN 61 984
Approvals	

Inserts

Number of contacts	4 / 2 + 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

Hoods/Housings

Plastic hoods/housings

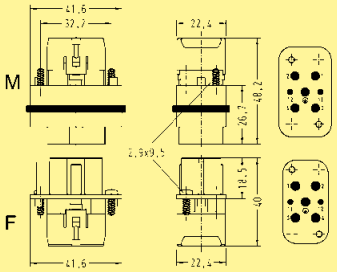
Material	polycarbonate
Locking element	Polyamide
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Accessories

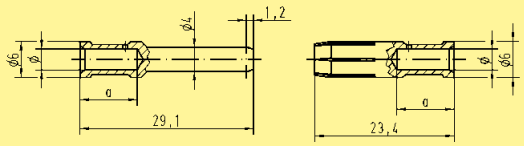
Crimping tools	chapter 99

Number of contacts

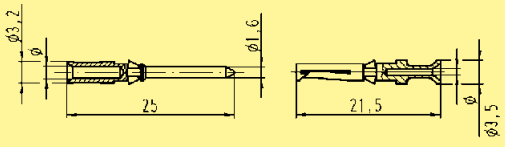
4/2 + ⏚

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

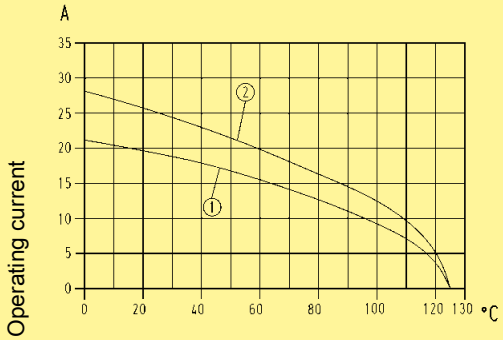
Features

- 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

Current carrying capacity

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

Measuring and testing techniques according to DIN EN 60 512-5



Ambient temperature

Wire gauge: ① 1.5 mm²
② 2.5 mm²

Technical characteristics

Specifications	DIN EN 60 664-1 DIN EN 61 984
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

Hoods/Housings

Plastic hoods/housings

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

Hoods/Housings, metal

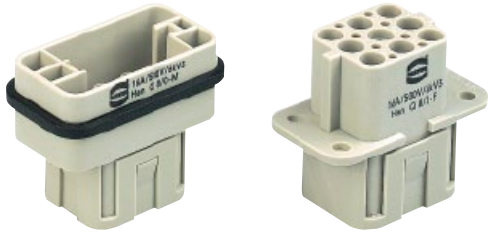
Material	zinc die-cast
Locking element	Stainless steel
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

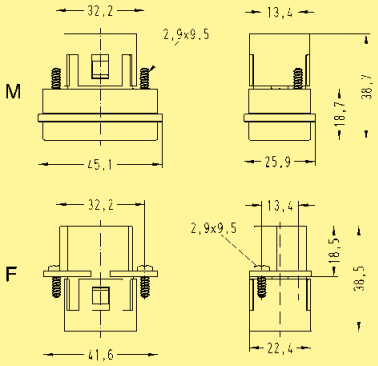
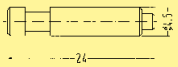
Accessories

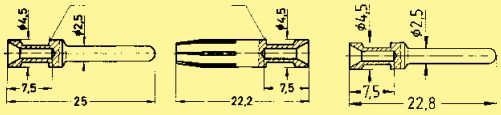
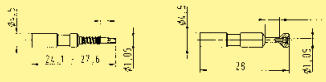
Crimping tools	chapter 99

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

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 groove	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

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

Stock items in bold type

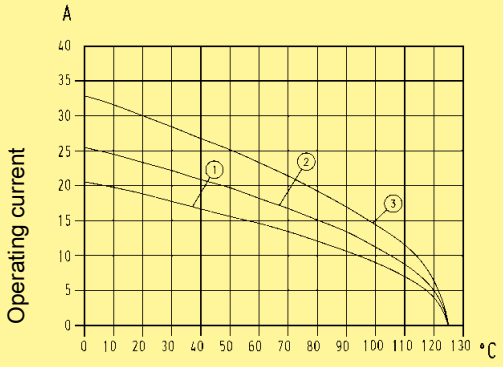
Features

- 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

Current carrying capacity

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

Measuring and testing techniques according to DIN EN 60 512-5



Ambient temperature

Wire gauge:
① 1.0 mm²
② 1.5 mm²
③ 2.5 mm²

Technical characteristics

Specifications	DIN EN 60 664-1 DIN EN 61 984
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
PE screw terminal	
- mm²	2.5 mm²
- AWG	14

Hoods/Housings

Selection of hoods/housings	see chapter 30 / chapter 31

Plastic hoods/housings

Material	polycarbonate
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 67

Hoods/Housings, metal

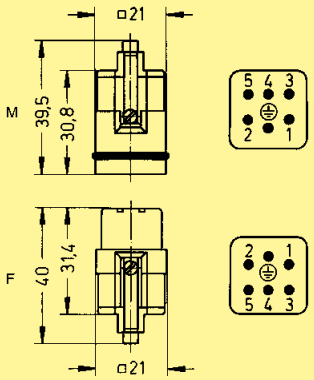
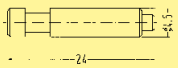
Material	zinc die-cast
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 44 IP 67 is achieved with seal
screw	09 20 000 9918

Accessories

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

Number of contacts

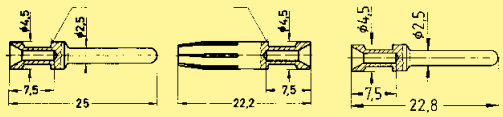
5 + ⏚

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

Operating contact Identification

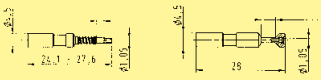
Relay contact



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 groove	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

Crimp zone Crimp zone



Power Distribution

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

Stock items in bold type

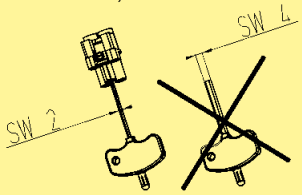
Features

- Compact designed connector for high current ratings
- 16 coding options
- For hoods/housings size Han® 3 A
- Finger protected male and female contacts
- Assembly without special tool by axial screw termination

Attention

- By using in Han® 3 A HPR hoods/housings the sealing on the insert has to be removed.
- For termination please use only hexagonal screw driver with wrench size SW 2.
- If PE contact is not used:

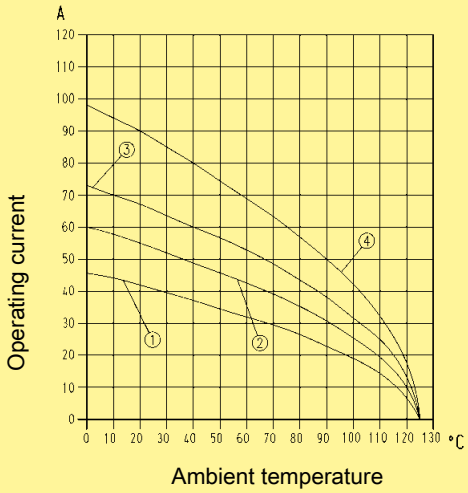
Please screw the PE contact maximal on both sides clockwise with a hexagonal screwdriver, wrench size SW 2.



Current carrying capacity

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

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge:
① 2.5 mm²
② 4 mm²
③ 6 mm²
④ 10 mm²

Technical characteristics

Specifications	DIN EN 60 664-1 DIN EN 61 984
Approvals	c UL us

Inserts

Number of contacts	2 + PE
Electrical data	
acc. to EN 61 984	**40 A 400 V 6 kV 3**
Rated current	40 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage	
acc. to UL/CSA	400 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
Contact resistance	≤ 1 mΩ
Axial screw termination	
- mm²	2,5 ... 10 mm²
- AWG	14 ... 8
Tightening torque	1,8 Nm
Stripping length	8 mm +1

Hoods/Housings

Selection of hoods/housings	see chapter 30 / chapter 31

Plastic hoods/housings

Material	polycarbonate
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 67

Hoods/Housings, metal

Material	zinc die-cast
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 44 IP 67 is achieved with seal screw 09 20 000 9918

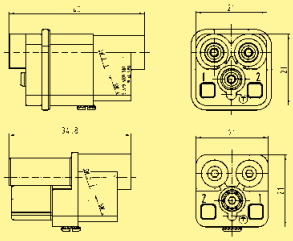
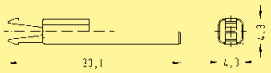
Accessories

Cable clamps	chapter 40
Sealing screw	chapter 40

Power Distribution

Number of contacts

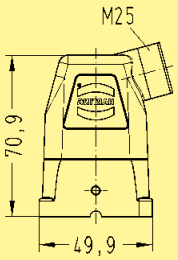
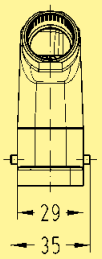
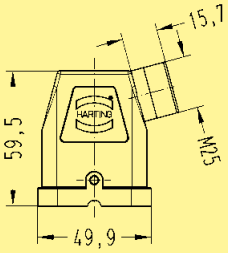
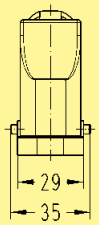
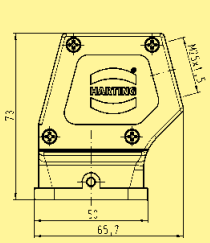
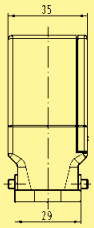
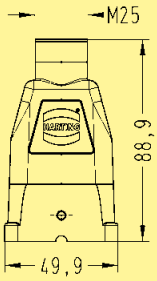
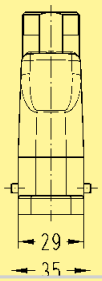
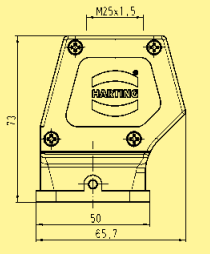
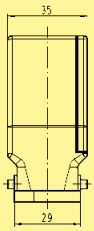
2 + ⏚

Identification	Part number Male insert (M)	Part number Female insert (F)	Drawing	Dimensions in mm
Axial screw terminal				
4 ... 10 mm²	**09 12 002 2651**	**09 12 002 2751**		
2,5 ... 6 mm²	**09 12 002 2653**	**09 12 002 2753**		
Coding element	**09 12 000 9922**	**09 12 000 9922**		

Identification	Part number	Drawing	Dimensions in mm
Hex key SW 2 for axial setscrew			
with grip	09 99 000 0313		
adapter 1/4“	09 99 000 0369		

Stock items in bold type

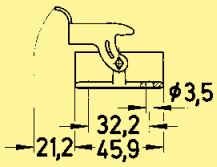
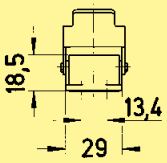
Metal

Identification		Part number		Drawing	Dimensions in mm
Hoods • side-entry for Han-Compact® half gland • with separate PE termination • for all inserts of size Han-Compact®		black powder coated **19 12 708 0511** black chromated **19 12 008 0511**	M25 M25		
Hoods • side-entry for Han-Compact® half gland • for Han® Q 8/0 Crimp, Han® Q 17/0 and Han® Q Data RJ45		black powder coated 19 12 708 0501 black chromated **19 12 008 0501**	M25 M25		
Hoods • side-entry for standard cable glands • with separate PE termination • for all inserts of size Han-Compact®		black powder coated **19 12 008 0526**	M25		
Hoods • top-entry for Han-Compact® half gland • with separate PE termination • for all inserts of size Han-Compact®		black powder coated **19 12 708 0411** black chromated **19 12 008 0411**	M25 M25		
Hoods • top-entry for standard cable glands • with separate PE termination • for all inserts of size Han-Compact®		black powder coated **19 12 008 0426**	M25		

Power Distribution

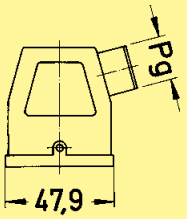
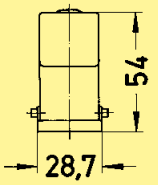
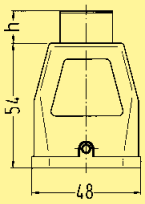
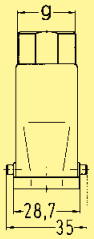
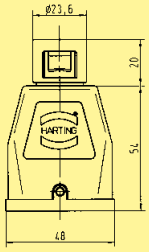
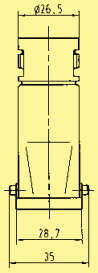
Stock items in bold type

Metal

Identification	Part number	Drawing	Dimensions in mm
Housings, bulkhead mounting 	black powder coated 09 12 708 0301 black chromated **09 12 008 0301**	 	

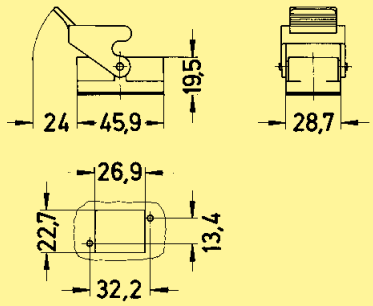
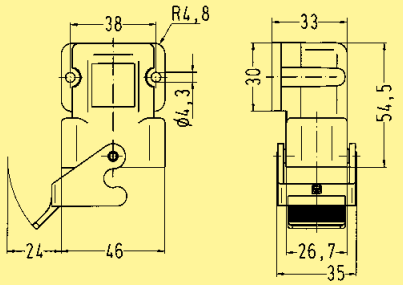
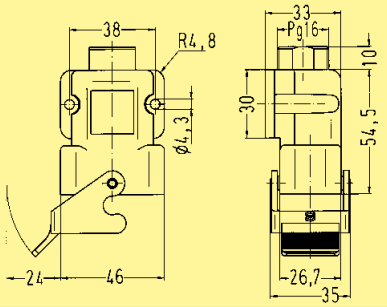
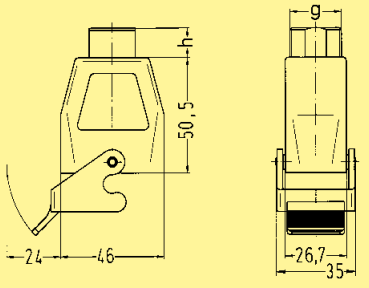
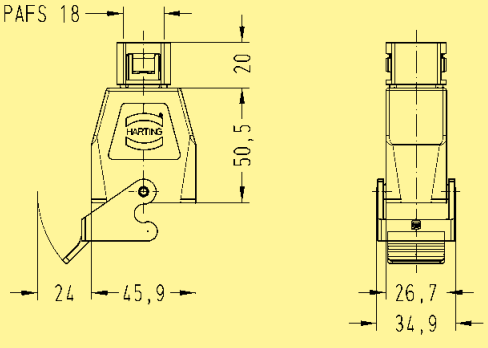
Stock items in bold type

Thermoplastic

Identification		Part number		Drawing	Dimensions in mm
Hoods • side-entry for Han-Compact® half gland		**09 12 008 0527**	Pg 16		
Hoods • top-entry for Han-Compact® half gland		**19 12 008 0429** 09 12 008 0427 **09 12 008 0429**	M25 Pg 16 Pg 21		
Hoods • top-entry for flexible conduits Adaptaflex PAFS18		09 12 008 0428	PAFS 18		

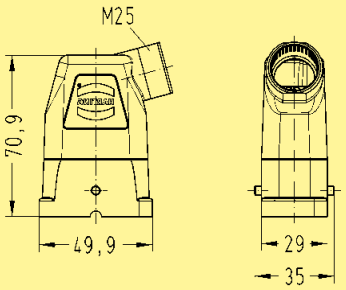
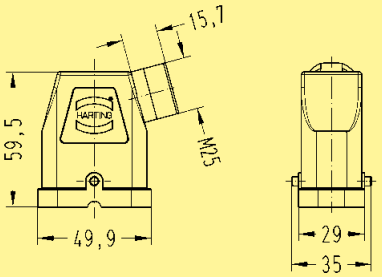
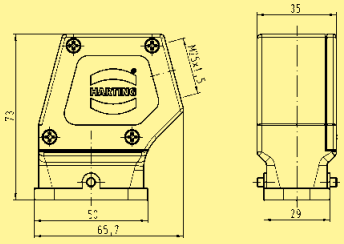
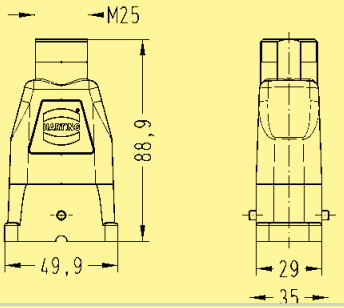
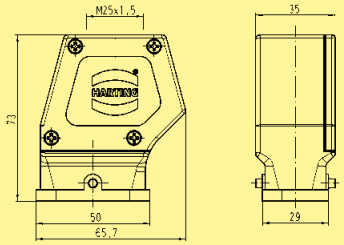
Stock items in bold type

Thermoplastic

Identification		Part number		Drawing	Dimensions in mm
Housings, bulkhead mounting • straight		**09 12 008 0327**	–		
Housings, bulkhead mounting • angled		09 12 008 0902	–		
Housings, surface mounting • for Han-Compact® half gland		09 12 008 0901	Pg 16		
Hoods, cable to cable • for Han-Compact® half gland		19 12 008 0729 09 12 008 0727	M25 Pg 16		
Hoods, cable to cable • for flexible conduits Adaptaflex PAFS18		09 12 008 0728	PAFS 18		

Stock items in bold type

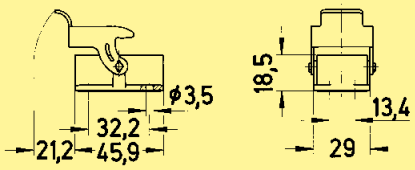
Metal nickel-plated for EMC applications

Identification		Part number		Drawing	Dimensions in mm
Hoods • side-entry for Han-Compact® EMC half gland • with separate PE termination • for all inserts of size Han-Compact®		19 12 008 0512	M25		
Hoods • side-entry for Han-Compact® EMC half gland • for Han® Q 8/0 Crimp, Han® Q 17/0 and Han® Q Data RJ45		19 12 008 0502	M25		
Hoods • side-entry for standard EMC cable glands • with separate PE termination • for all inserts of size Han-Compact®		**19 12 008 0528**	M25		
Hoods • top-entry for Han-Compact® EMC half gland • with separate PE termination • for all inserts of size Han-Compact®		19 12 008 0412	M25		
Hoods • top-entry for standard EMC cable glands • with separate PE termination • for all inserts of size Han-Compact®		**19 12 008 0428**	M25		

Power Distribution

Stock items in bold type

Metal nickel-plated for EMC applications

Identification	Part number	Drawing	Dimensions in mm
Housings, bulkhead mounting 	**09 12 008 0303**		

Stock items in bold type

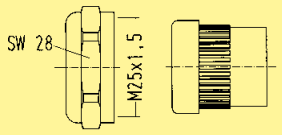
Accessories

Identification	Part number		Drawing	Dimensions in mm

Han-Compact® half gland

- Metal
- for hoods

Part number	
19 12 000 5057	M25
19 12 000 5058	M25

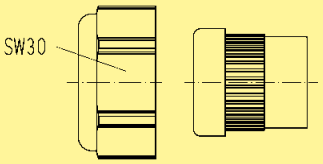


	cable		SW
	min.	max.	
19 12 000 5057	10.5 mm	14 mm	28
19 12 000 5058	14 mm	17 mm	28

Han-Compact® half gland

- Thermoplastic
- for hoods

Part number	
19 12 000 5156	M25
19 12 000 5157	M25
19 12 000 5158	M25
09 00 000 5059	Pg 16
09 00 000 5157	Pg 21
09 00 000 5158	Pg 21

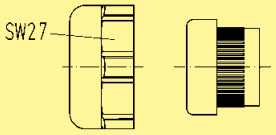


	cable		SW
	min.	max.	
19 12 000 5156	6.5 mm	9.5 mm	30
19 12 000 5157	10.5 mm	14 mm	30
19 12 000 5158	14 mm	17 mm	30
09 00 000 5059	11.5 mm	15.5 mm	27
09 00 000 5157	14 mm	18 mm	33
09 00 000 5158	17 mm	20.5 mm	33

Han-Compact® half gland

- Thermoplastic
- for housings

Part number	
09 00 000 5058	Pg 16
09 00 000 5057	Pg 16

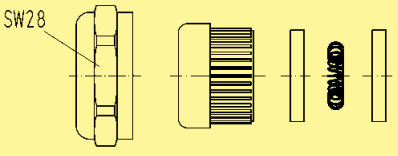


	cable		SW
	min.	max.	
09 00 000 5058	11.5 mm	15.5 mm	27
09 00 000 5057	6.5 mm	9.5 mm	27

Han-Compact® EMC half gland

- Metal
- for hoods

Part number	
19 62 000 5056	M25
19 62 000 5057	M25
19 62 000 5058	M25



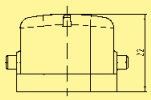
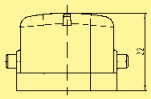
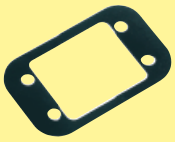
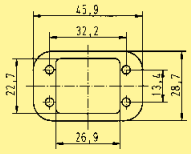
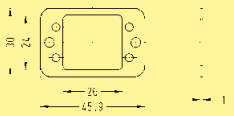
	cable		SW
	min.	max.	
19 62 000 5056	10.5 mm	14 mm	28
19 62 000 5057	10.5 mm	14 mm	28
19 62 000 5058	14 mm	17 mm	28

	shielding	
	min.	max.
19 62 000 5056	9 mm	13 mm
19 62 000 5057	6 mm	11 mm
19 62 000 5058	9 mm	13 mm

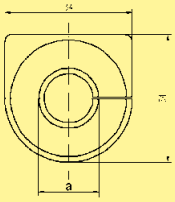
Power Distribution

Stock items in bold type

Accessories

Identification	Part number	Drawing	Dimensions in mm
Protection covers • Thermoplastic • for housings • for mounted male insert 	09 12 008 5407		
Protection covers • Thermoplastic • for housings • for mounted female insert 	09 12 008 5408		
Gasket for plastic housings, bulkhead mounting, straight 	09 12 000 9912		
Gasket for plastic housings, bulkhead mounting, angled, and for housings, surface mounting 	09 12 000 9911		

Stock items in bold type

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

Stock items in bold type