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Features

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

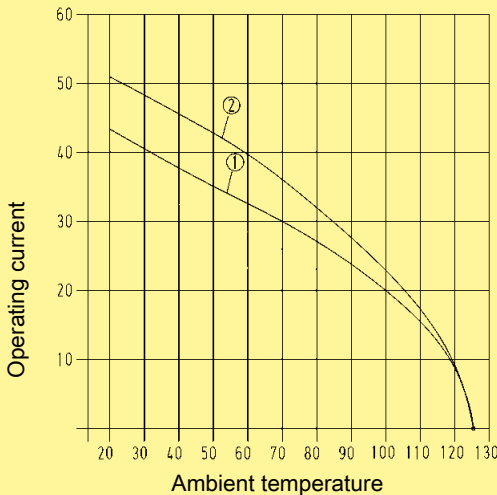
Description

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

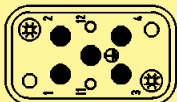
The current carrying capacity of the connectors is limited by the thermal load capability of the contact element including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector 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 | |
| - mm ² | 2.5 ... 6 mm ² / 0.14 ... 2.5 mm ² |
| - 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 mm ² |
| - Number of single strands | 50 x 0.25 mm Ø |
| - Outer diameter | 3.6 mm |
| Wire gauge | 4 mm ² |
| - Number of single strands | 56 x 0.3 mm Ø |
| - Outer diameter | 4.2 mm |
| Wire gauge | 6 mm ² |
| - Number of single strands | 84 x 0.3 mm Ø |
| - 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 mm ² | 09 12 008 4804 | |
| | 4 - 6 mm ² | 09 12 008 4806 | |
| | | | |

Power Distribution

| 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 mm ² | 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

Features

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

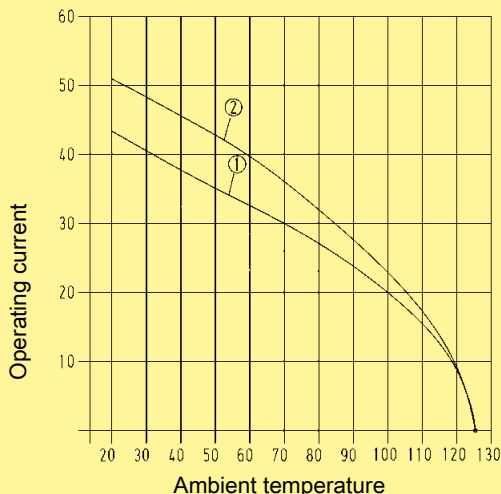
Description

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.

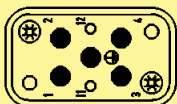
Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element 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 | |
| - mm ² | 4 ... 6 mm ² / 0.14 ... 2.5 mm ² |
| - 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 mm ² |
| - Number of single strands | 56 x 0.3 mm Ø |
| - Outer diameter | 4.2 mm |
| Wire gauge | 6 mm ² |
| - Number of single strands | 84 x 0.3 mm Ø |
| - Outer diameter | 4.8 mm |



with 2x Han® Q 4/2

| Identification | Part number | Drawing | Dimensions in mm |
|--|--|---|------------------|
| <p>Han-Power® S</p> <p>Power supply</p> <p>Han® Q 4/2; 2 screwed</p> <p>Han-Compact® Housings, bulkhead mounting</p> | <p>4 - 6 mm²</p> <p>09 12 008 4807</p> | <p>Top view dimensions: 130 (width), 55 (height), 158 (total width including mounting tabs).</p> <p>Front view dimensions: 142,5 (width), 78,5 (height), 5,5 (mounting tab height), 50 (terminal spacing), 96 (terminal width), 19,5 (terminal offset).</p> | |

Power Distribution

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

Stock items in bold type

Features

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

Description

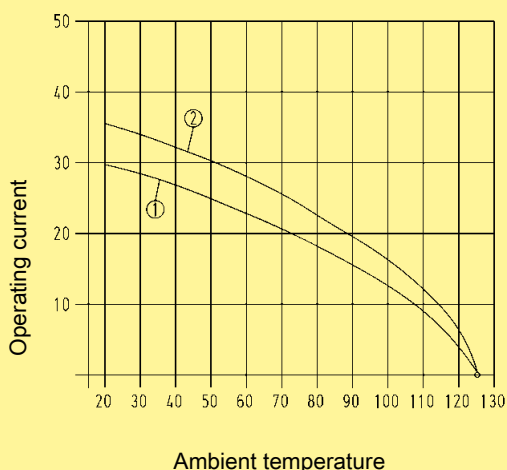
The Han-Power® S connector is suitable for the assembly of serial power bus. Having assembled the energy supply Han-Power® S can be inserted at any place of the power cable. The cable mantle has to be removed, the conductor is placed without interruption in the IDC.

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.

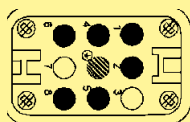
Current carrying capacity

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
- ③ 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 | |
| - mm ² | 2.5 ... 6 mm ² |
| - AWG | 14 ... 10 |

Cables

| | |
|-----------------------------|-------------------------------|
| Design of conductor acc. to | DIN VDE 0281 DIN EN 60 228 |
| Single strand | |
| Wire gauge | 2.5 mm ² |
| - Number of single strands | 50 x 0.25 mm Ø |
| - Outer diameter | 3.6 mm |
| Wire gauge | 4 mm ² |
| - Number of single strands | 56 x 0.3 mm Ø |
| - Outer diameter | 4.2 mm |
| Wire gauge | 6 mm ² |
| - Number of single strands | 84 x 0.3 mm Ø |
| - Outer diameter | 4.8 mm |



with 1x Han® Q 8/0

| Identification | Part number | Drawing | Dimensions in mm |
|--|-----------------------|---------|------------------|
| <p>Han-Power® S</p> <p>Power supply</p> <p>Han® Q 8/0; 1 moulded</p> <p>Han-Compact® Hoods</p> | | | |
| 2.5 - 4 mm ² | 09 12 008 4801 | | |
| 4 - 6 mm ² | 09 12 008 4811 | | |

Power Distribution

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

Stock items in bold type

Features

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

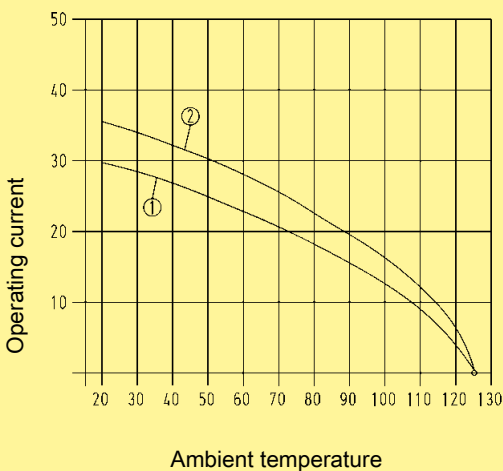
Description

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

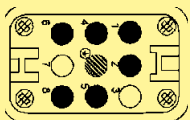
The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the 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 | |
| - mm ² | 2.5 ... 4 mm ² |
| - AWG | 14 ... 12 |

Cables

| | |
|-----------------------------|-------------------------------|
| Design of conductor acc. to | DIN VDE 0281 DIN EN 60 228 |
| Single strand | |
| Wire gauge | 2.5 mm ² |
| - Number of single strands | 50 x 0.25 mm Ø |
| - Outer diameter | 3.6 mm |
| Wire gauge | 4 mm ² |
| - Number of single strands | 56 x 0.3 mm Ø |
| - Outer diameter | 4.2 mm |



with 2x Han® Q 8/0

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

Power Distribution

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

Stock items in bold type

Features

- 6 IDCs/screw terminals + PE for 4 mm² up to 6 mm² wire gauge; 4 IDCs + PE for 10 mm² wire gauge
- No interruption 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.

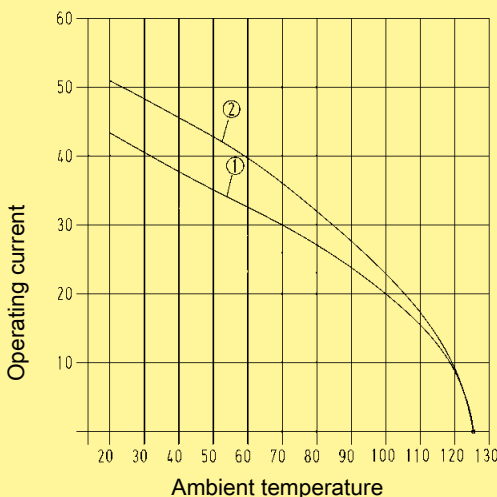
Han-Power® S metal offers optimal handling characteristics and now features an increased wire gauge range. It is now possible to realise power distribution networks with wire gauge up to 10 mm².

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

Current carrying capacity

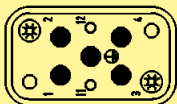
The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the 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

| | |
|-------------------------------------|------------------------------|
| <u>Power side</u> | 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 |

| | |
|-----------------------|--------------------------|
| <u>Signal side</u> | 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 |

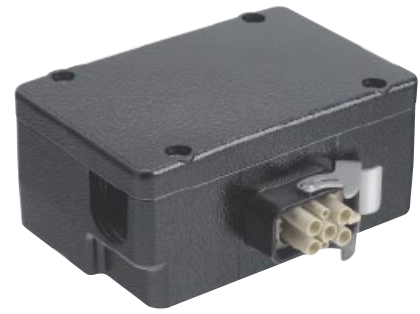
Contacts

| | |
|--------------------------|--|
| 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 | |
| - mm ² | 4 ... 10 mm ² / 0.14 ... 2.5 mm ² |
| - 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 |
|-----------------------------|-------------------------------|

| | |
|----------------------------|--------------------|
| <u>Single strand</u> | |
| Wire gauge | 4 mm ² |
| - Number of single strands | 56 x 0.3 mm Ø |
| - Outer diameter | 4.2 mm |
| Wire gauge | 6 mm ² |
| - Number of single strands | 84 x 0.3 mm Ø |
| - Outer diameter | 4.8 mm |
| Wire gauge | 10 mm ² |
| - Number of single strands | 80 x 0.4 mm Ø |
| - Outer diameter | 6.3 mm |



with 1x Han® Q 4/2, metal

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

Power Distribution

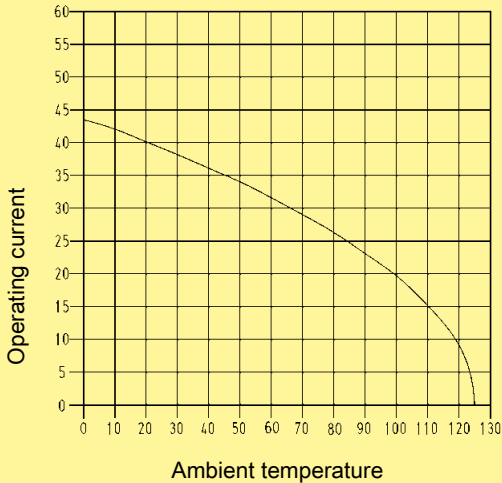
Features

- 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

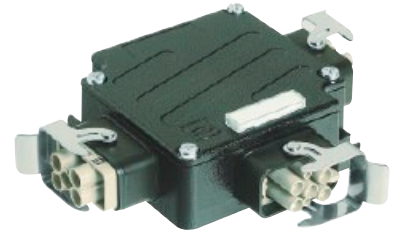
| | |
|-------------------------------------|------------------------------|
| <u>Power side</u> | 40 A 400/690 V 6 kV 3 |
| Rated current | 40 A |
| Rated voltage conductor - ground | 400 V |
| Rated voltage conductor - conductor | 690 V |
| Rated impulse voltage | 6 kV |
| Pollution degree | 3 |

| | |
|-----------------------|--------------------------|
| <u>Signal side</u> | 10 A 250 V 4 kV 3 |
| Rated current | 10 A |
| Rated voltage | 250 V |
| Rated impulse voltage | 4 kV |
| Pollution degree | 3 |


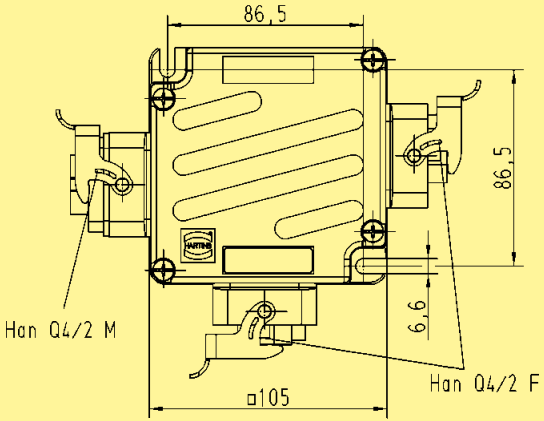
| | |
|--|----------------------|
| Rated voltage acc. to UL/CSA | 600 / 250 V |
| Insulation resistance | ≥ 10 ¹⁰ Ω |
| Material | zinc die-cast |
| Limiting temperatures | -40 °C ... +125 °C |
| Flammability acc. to UL 94 | V 0 |
| Mechanical working life | |
| - mating cycles | ≥ 500 |
| Degree of 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 | |
| - mm ² | 4 ... 6 mm ² / 0.14 ... 2.5 mm ² |
| - 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 |
|---|------------------------------|---|-------------------------------|
| <p>Han-Power® T Power supply with 3x Han® Q 4/2 in Han-Compact® Housings, bulkhead mounting</p> <p>4 mm²</p>  | <p>09 12 008 4720</p> |  | <p>Power Distribution</p> |

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 | |
| <u>Power side</u> | 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 |
| <u>Signal side</u> | 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 | |
| - mm ² | 2.5 ... 6 mm ² |
| - 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 | |
| - mm ² | 0.14 ... 2.5 mm ² |
| - AWG | 26 ... 14 |



with 3x Han-Modular® Twin

Identification

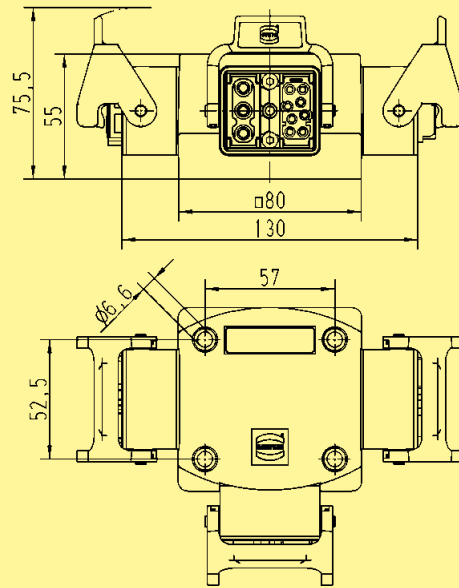
Part number

Drawing

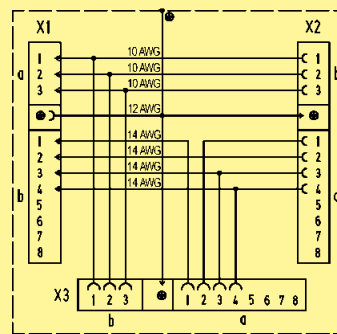
Dimensions in mm

Han-Power® T
Power supply
with 3x Han-Modular® Twin

09 12 008 4760



Wiring diagram



Power Distribution

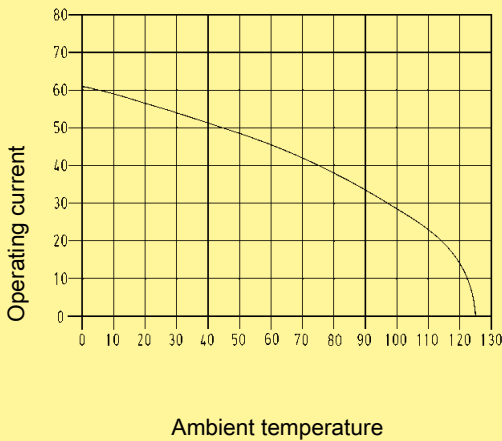
Features

- 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


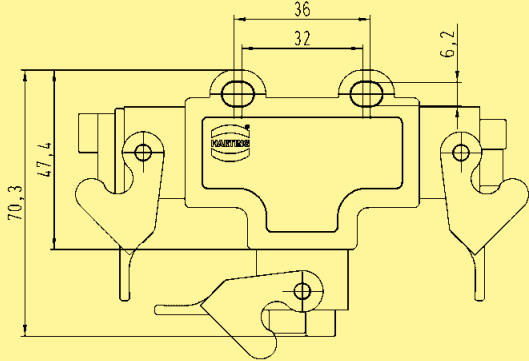
| | |
|--|----------------------|
| acc. to UL/CSA | 600 V |
| Insulation resistance | ≥ 10 ¹⁰ Ω |
| Material | polycarbonate |
| Limiting temperatures | -40 °C ... +125 °C |
| Flammability acc. to UL 94 | V 0 |
| Mechanical working life | |
| - mating cycles | ≥ 500 |
| Degree of protection acc. to 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 | |
| - mm ² | 2.5 ... 10 mm ² |
| - AWG | 14 ... 8 |



with 3x Han® Q 2/0

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

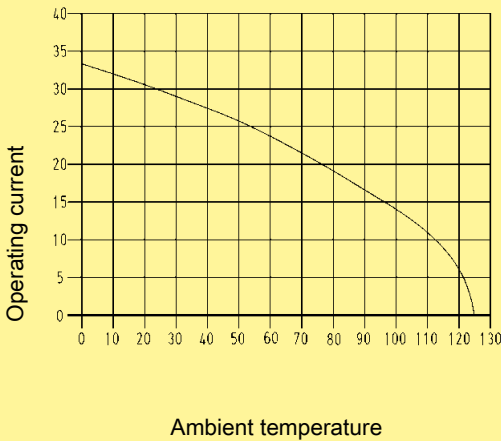
Features

- 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 | |
| - mm ² | 0.14 ... 2.5 mm ² |
| - AWG | 26 ... 14 |



with 3x Han® Q 5/0

Identification

Part number

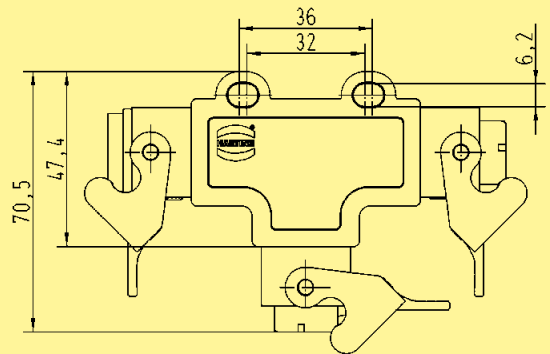
Drawing

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



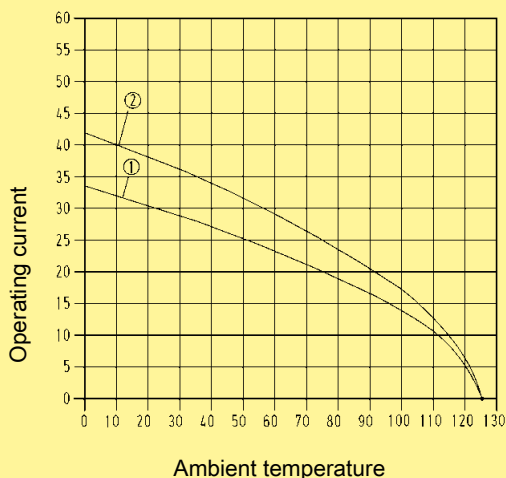
Features

- 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 | |
| - mm ² | 1.5 ... 6 mm ² / 0.14 ... 2.5 mm ² |
| - AWG | 16 ... 10 / 26 ... 14 |
| Max. insulation diameter - Power contacts | 5 mm |

Hoods/Housings

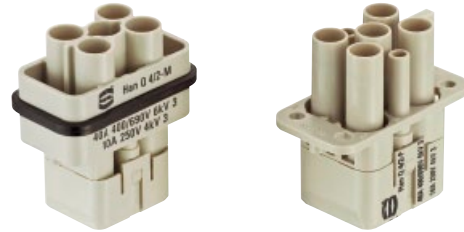
| | |
|--|--------------------|
| Plastic hoods/housings | |
| Material | polycarbonate |
| Locking element | Polyamide |
| Hoods/Housings sealing | NBR |
| Limiting temperatures | -40 °C ... +125 °C |
| Flammability acc. to UL 94 | V 0 |
| Degree of protection acc. to DIN EN 60 529 for coupled connector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

Accessories

| | |
|----------------|------------|
| Crimping tools | chapter 99 |
|----------------|------------|

Number of contacts

4/2 +



| Identification | Part number | | Drawing | Dimensions in mm |
|---|-----------------------|-----------------------|---|------------------|
| | Male insert (M) | Female insert (F) | | |
| Crimp terminal Order crimp contacts separately | 09 12 006 3041 | 09 12 006 3141 | <p>Contact arrangement view from termination side</p> | |

| Identification | Wire gauge (mm²) | Part number | | Drawing | Dimensions in mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|------------------|--|--|---|------------------|-----|-----|--------|------|------|-----|-----|--------|------|------|---|-----|--------|------|--------|---|-----|--------|-----|--------|------------|--|--|---|------------------|-----------|-----|-----------|-----|------|-----|-----|--------|-----|------|------|-----|--------|-----|------|---|-----|--------|------|------|-----|-----|--------|------|------|-----|-----|--------|------|------|--|
| | | Male contact | Female contact | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crimp contacts Han® C contacts Power contacts silver plated | 1.5 2.5 4 6 | 09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108 | 09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Han D® contacts Signal contacts silver plated | 0.14-0.37 0.5 0.75 1 1.5 2.5 | 09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106 | 09 15 000 6204 09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| gold plated | 0.14-0.37 0.5 0.75 1 1.5 2.5 | 09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126 | 09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226 | <table border="1"> <thead> <tr> <th colspan="3">Wire gauge</th> <th>∅</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5</td> <td>mm²</td> <td>AWG 16</td> <td>1.75</td> <td>9 mm</td> </tr> <tr> <td>2.5</td> <td>mm²</td> <td>AWG 14</td> <td>2.25</td> <td>9 mm</td> </tr> <tr> <td>4</td> <td>mm²</td> <td>AWG 12</td> <td>2.85</td> <td>9.6 mm</td> </tr> <tr> <td>6</td> <td>mm²</td> <td>AWG 10</td> <td>3.5</td> <td>9.6 mm</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">Wire gauge</th> <th>∅</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37</td> <td>mm²</td> <td>AWG 26-22</td> <td>0.9</td> <td>8 mm</td> </tr> <tr> <td>0.5</td> <td>mm²</td> <td>AWG 20</td> <td>1.1</td> <td>8 mm</td> </tr> <tr> <td>0.75</td> <td>mm²</td> <td>AWG 18</td> <td>1.3</td> <td>8 mm</td> </tr> <tr> <td>1</td> <td>mm²</td> <td>AWG 18</td> <td>1.45</td> <td>8 mm</td> </tr> <tr> <td>1.5</td> <td>mm²</td> <td>AWG 16</td> <td>1.75</td> <td>8 mm</td> </tr> <tr> <td>2.5</td> <td>mm²</td> <td>AWG 14</td> <td>2.25</td> <td>6 mm</td> </tr> </tbody> </table> | 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 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Power Distribution

Features

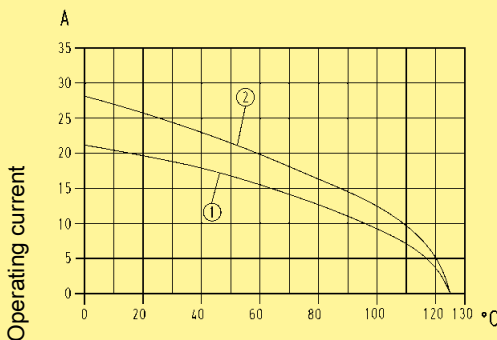
- 8 contact chambers for crimp contacts of Han E® series
- Space-saving and compact design
- Leading protective ground with crimp terminal
- Inserts suitable for metal and plastic hoods and housings of Han-Compact® series
- ISO 23 570 / DESINA conform product



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 | |
| - mm ² | 0.14 ... 4 mm ² partly loaded up to 4 mm ² is possible |
| - AWG | 26 ... 12 |

Hoods/Housings

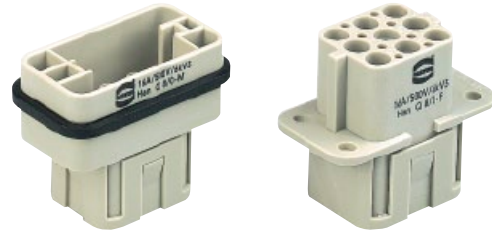
| | |
|---|-------------------|
| Plastic hoods/housings | |
| Material | polycarbonate |
| Locking element | Polyamide |
| Hoods/Housings sealing | NBR |
| Limiting temperatures | -40 °C ... 125 °C |
| Flammability acc. to UL 94 | V 0 |
| Degree of protection acc. to DIN EN 60 529 for coupled connector | 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 | | Drawing | Dimensions in mm |
|---|-----------------------|-----------------------|---------|---|
| | Male insert (M) | Female insert (F) | | |
| Crimp terminal Order crimp contacts separately | 09 12 008 3001 | 09 12 008 3101 | | |
| 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 | | Drawing | Dimensions in mm |
|---|--|--|---|---------|------------------|
| | | Male contact | Female contact | | |
| Crimp contacts Power contacts silver plated | 0.14-0.37 0.5 0.75 1 1.5 2.5 4 | 09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6107 | 09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6207 | | |
| gold plated | 0.14-0.37 0.5 0.75 1 1.5 2.5 4 | 09 33 000 6117 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119 | 09 33 000 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221 | | |
| Relay contact silver plated | 0.75-1 1.5 2.5 | 09 33 000 6109 09 33 000 6110 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 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

| Identification | Part number | Drawing | Dimensions in mm |
|---|----------------------------------|---------|------------------|
| | | | |
| F.O. contacts for 1 mm plastic fibre | 20 10 001 3311 20 10 001 3321 | | |

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

Stock items in bold type

Power Distribution

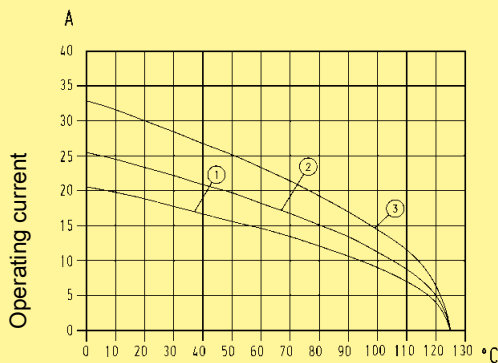
Features

- 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 | |
| - mm ² | 0.14 ... 2.5 mm ² |
| - AWG | 26 ... 14 |
| PE screw terminal | |
| - mm ² | 2.5 mm ² |
| - 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 | | Drawing | Dimensions in mm |
|--|-----------------------|-----------------------|---|--|
| | Male insert (M) | Female insert (F) | | |
| <p>Crimp terminal</p> <p>Order crimp contacts separately</p> | 09 12 005 3001 | 09 12 005 3101 | <p>Contact arrangement view from termination side</p> | |
| <p>Coding pin</p> | | 09 33 000 9954 | | <p>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.</p> |

| Identification | Wire gauge (mm²) | Part number | | Drawing | Dimensions in mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|-----------------------|-----------------------|--|------------------|------------|--|------------------|-----------|---------------|-----------|--------|-----------|---------|--------|--------|-----------|----------|--------|--------|----------|-------|--------|--------|-----------|---------|--------|--------|-----------|---------|--------|--------|--|
| | | Male contact | Female contact | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Crimp contacts</p> <p>Power contacts</p> <p>silver plated</p> | 0.14-0.37 | 09 33 000 6127 | 09 33 000 6227 | <p>Operating contact Identification</p> <p>Relay contact</p> <table border="1"> <thead> <tr> <th>Identification</th> <th colspan="2">Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>no groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>no groove</td> <td>0.5 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove*</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove</td> <td>1 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 grooves</td> <td>1.5 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 grooves</td> <td>2.5 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> </tbody> </table> <p>* on the back crimp collar</p> | 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 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>gold plated</p> | 0.14-0.37 | 09 33 000 6117 | 09 33 000 6217 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Relay contact silver plated</p> | 0.75-1 | 09 33 000 6109 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.5 | 09 33 000 6110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.5 | 09 33 000 6111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>F.O. contacts</p> <p>for 1 mm plastic fibre</p> | | 20 10 001 3311 | 20 10 001 3321 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Power Distribution

15
25

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

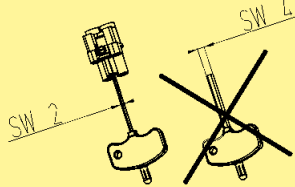
Stock items in bold type

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

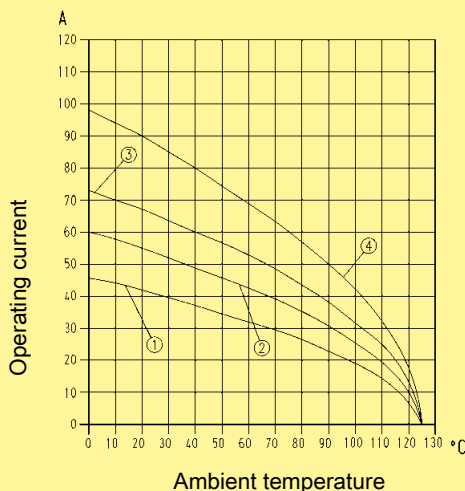
- By using in Han® 3 A HPR hoods/housings the sealing on the insert has to be removed.
- For termination please use only hexagonal screw driver with wrench size SW 2.
- If PE contact is not used:
Please screw the PE contact maximal on both sides clockwise with a hexagonal screwdriver, wrench size SW 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 | |
| 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 | |
| - mm ² | 2,5 ... 10 mm ² |
| - AWG | 14 ... 8 |
| Tightening torque | 1,8 Nm |
| Stripping length | 8 mm ⁺¹ |

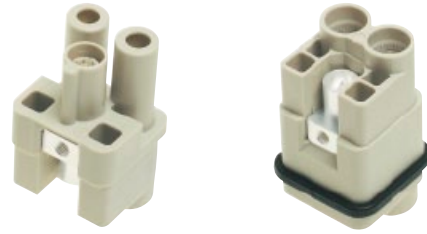
| | |
|-----------------------------|-----------------------------|
| Hoods/Housings | |
| Selection of hoods/housings | see chapter 30 / chapter 31 |

| | |
|--|---|
| 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 |

Number of contacts

2 +


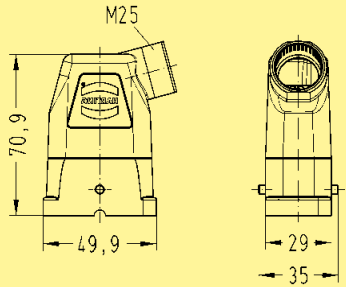

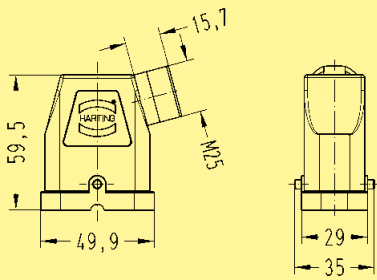

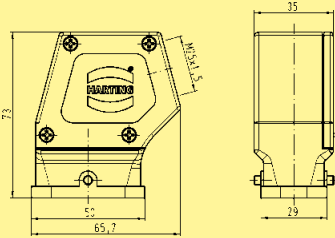

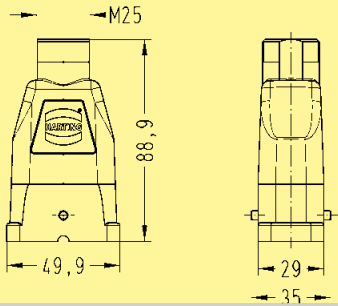

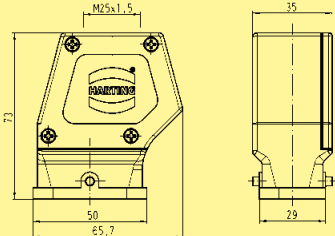


| Identification | Part number | | Drawing | Dimensions in mm |
|---------------------------|-----------------------|-----------------------|---------|------------------|
| | Male insert (M) | Female insert (F) | | |
| Axial screw terminal | | | | |
| 4 ... 10 mm ² | 09 12 002 2651 | 09 12 002 2751 |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

Power Distribution


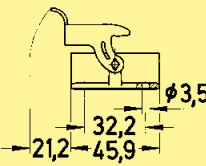
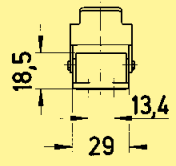
| Identification | Part number | Drawing | Dimensions in mm |
|---------------------------------|-----------------------|---------|------------------|
| Hex key SW 2 for axial setscrew | | | |
| with grip | 09 99 000 0313 | | |
| adapter 1/4" | 09 99 000 0369 | | |

Metal

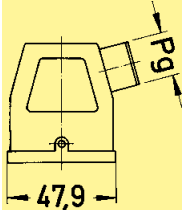
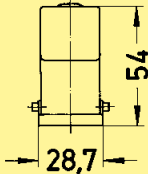
| Identification | Part number | Drawing | Dimensions in mm |
|--|--|---|---|
| <p>Hoods</p> <ul style="list-style-type: none"> side-entry for Han-Compact® half gland with separate PE termination for all inserts of size Han-Compact®  | <p>black powder coated 19 12 708 0511</p> <p>black chromated 19 12 008 0511</p> | <p>M25</p> <p>M25</p>  | <p>70,9</p> <p>49,9</p> <p>29</p> <p>35</p> |
| <p>Hoods</p> <ul style="list-style-type: none"> side-entry for Han-Compact® half gland for Han® Q 8/0 Crimp, Han® Q 17/0 and Han® Q Data RJ45  | <p>black powder coated 19 12 708 0501</p> <p>black chromated 19 12 008 0501</p> | <p>M25</p> <p>M25</p>  | <p>59,5</p> <p>49,9</p> <p>15,7</p> <p>29</p> <p>35</p> |
| <p>Hoods</p> <ul style="list-style-type: none"> side-entry for standard cable glands with separate PE termination for all inserts of size Han-Compact®  | <p>black powder coated 19 12 008 0526</p> | <p>M25</p>  | <p>73</p> <p>65,7</p> <p>5</p> <p>29</p> <p>35</p> |
| <p>Hoods</p> <ul style="list-style-type: none"> top-entry for Han-Compact® half gland with separate PE termination for all inserts of size Han-Compact®  | <p>black powder coated 19 12 708 0411</p> <p>black chromated 19 12 008 0411</p> | <p>M25</p> <p>M25</p>  | <p>88,9</p> <p>49,9</p> <p>29</p> <p>35</p> |
| <p>Hoods</p> <ul style="list-style-type: none"> top-entry for standard cable glands with separate PE termination for all inserts of size Han-Compact®  | <p>black powder coated 19 12 008 0426</p> | <p>M25</p>  | <p>73</p> <p>50</p> <p>65,7</p> <p>29</p> <p>35</p> |

Power Distribution


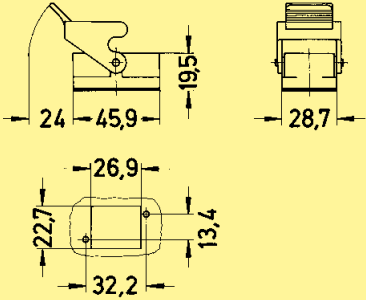

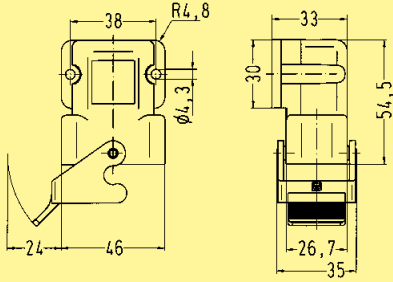

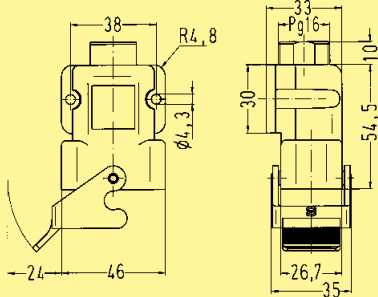

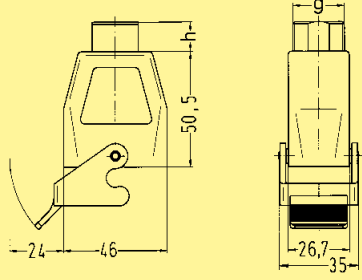

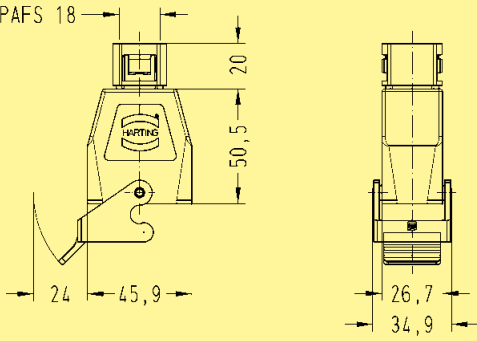
Metal

| Identification | Part number | | Drawing | Dimensions in mm |
|--|---|--|---|---|
| <p>Housings, bulkhead mounting</p>  | <p>black powder coated 09 12 708 0301</p> <p>black chromated 09 12 008 0301</p> | |  |  |

Thermoplastic

| Identification | Part number | | Drawing | Dimensions in mm |
|---|--|--------------------------------|--|--|
| <p>Hoods</p> <ul style="list-style-type: none"> side-entry for Han-Compact® half gland  | <p>09 12 008 0527</p> | <p>Pg 16</p> |  |  |
| <p>Hoods</p> <ul style="list-style-type: none"> top-entry for Han-Compact® half gland  | <p>19 12 008 0429 09 12 008 0427 09 12 008 0429</p> | <p>M25 Pg 16 Pg 21</p> |  |  |
| <p>Hoods</p> <ul style="list-style-type: none"> top-entry for flexible conduits Adaptaflex PAFS18  | <p>09 12 008 0428</p> | <p>PAFS 18</p> |  |  |

Thermoplastic


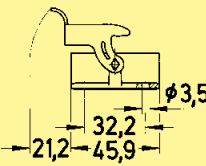
| Identification | Part number | | Drawing | Dimensions in mm |
|--|---|--------------|---|------------------|
| Housings, bulkhead mounting • straight |  09 12 008 0327 | - |  | |
| Housings, bulkhead mounting • angled |  09 12 008 0902 | - |  | |
| Housings, surface mounting • for Han-Compact® half 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 |  | |

Power Distribution


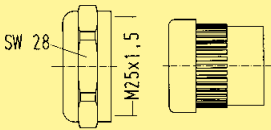

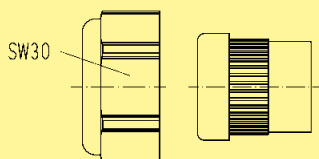

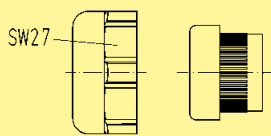

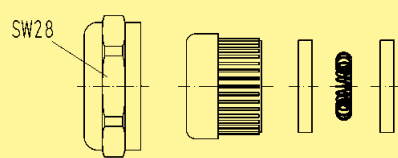
Metal nickel-plated for EMC applications

| Identification | Part number | | Drawing | Dimensions in mm |
|--|----------------|-----|---------|------------------|
| <p>Hoods</p> <ul style="list-style-type: none"> side-entry for Han-Compact® EMC half gland with separate PE termination for all inserts of size Han-Compact® | 19 12 008 0512 | M25 | | |
| <p>Hoods</p> <ul style="list-style-type: none"> 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 | | |
| <p>Hoods</p> <ul style="list-style-type: none"> side-entry for standard EMC cable glands with separate PE termination for all inserts of size Han-Compact® | 19 12 008 0528 | M25 | | |
| <p>Power Distribution</p> <p>Hoods</p> <ul style="list-style-type: none"> top-entry for Han-Compact® EMC half gland with separate PE termination for all inserts of size Han-Compact® | 19 12 008 0412 | M25 | | |
| <p>Hoods</p> <ul style="list-style-type: none"> top-entry for standard EMC cable glands with separate PE termination for all inserts of size Han-Compact® | 19 12 008 0428 | M25 | | |

Metal nickel-plated for EMC applications


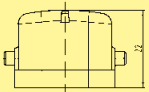

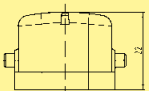

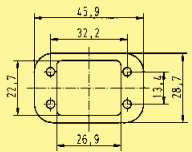

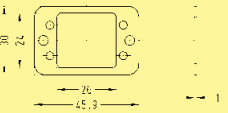
| Identification | Part number | | Drawing | Dimensions in mm |
|--|------------------------------|--|---|---|
| <p>Housings, bulkhead mounting</p>  | <p>09 12 008 0303</p> | |  |  |


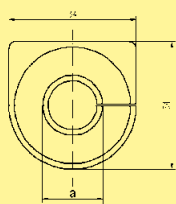
Accessories

| Identification | Part number | Drawing | Dimensions in mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---|--|-------|--|----|------|------|----------------|---------|---------|----|----------------|---------|--------|----|----------------|---------|---------|----|----------------|-----------|-------|------|----------------|----------------|---------|-------|----------------|------|-------|----------------|------|-------|
| <p>Han-Compact® half gland</p> <ul style="list-style-type: none"> • Metal • for hoods  | <p>19 12 000 5057 19 12 000 5058</p> | <p>M25 M25</p>  | <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">cable</th> <th rowspan="2">SW</th> </tr> <tr> <th>min.</th> <th>max.</th> </tr> </thead> <tbody> <tr> <td>19 12 000 5057</td> <td>10,5 mm</td> <td>14 mm</td> <td>28</td> </tr> <tr> <td>19 12 000 5058</td> <td>14 mm</td> <td>17 mm</td> <td>28</td> </tr> </tbody> </table> | | cable | | SW | min. | max. | 19 12 000 5057 | 10,5 mm | 14 mm | 28 | 19 12 000 5058 | 14 mm | 17 mm | 28 | | | | | | | | | | | | | | | | | | |
| | cable | | SW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | min. | max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 12 000 5057 | 10,5 mm | 14 mm | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 12 000 5058 | 14 mm | 17 mm | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Han-Compact® half gland</p> <ul style="list-style-type: none"> • Thermoplastic • for hoods  | <p>19 12 000 5157 19 12 000 5158 09 00 000 5059 09 00 000 5157 09 00 000 5158</p> | <p>M25 M25 Pg 16 Pg 21 Pg 21</p>  | <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">cable</th> <th rowspan="2">SW</th> </tr> <tr> <th>min.</th> <th>max.</th> </tr> </thead> <tbody> <tr> <td>19 12 000 5157</td> <td>10,5 mm</td> <td>14 mm</td> <td>30</td> </tr> <tr> <td>19 12 000 5158</td> <td>14 mm</td> <td>17 mm</td> <td>30</td> </tr> <tr> <td>09 00 000 5059</td> <td>11,5 mm</td> <td>15,5 mm</td> <td>27</td> </tr> <tr> <td>09 00 000 5157</td> <td>14 mm</td> <td>18 mm</td> <td>33</td> </tr> <tr> <td>09 00 000 5158</td> <td>17 mm</td> <td>20,5 mm</td> <td>33</td> </tr> </tbody> </table> | | cable | | SW | min. | max. | 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 | | | | | | |
| | cable | | SW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | min. | max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Han-Compact® half gland</p> <ul style="list-style-type: none"> • Thermoplastic • for housings  | <p>09 00 000 5058 09 00 000 5057</p> | <p>Pg 16 Pg 16</p>  | <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">cable</th> <th rowspan="2">SW</th> </tr> <tr> <th>min.</th> <th>max.</th> </tr> </thead> <tbody> <tr> <td>09 00 000 5058</td> <td>11,5 mm</td> <td>15,5 mm</td> <td>27</td> </tr> <tr> <td>09 00 000 5057</td> <td>6,5 mm</td> <td>9,5 mm</td> <td>27</td> </tr> </tbody> </table> | | 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 | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Han-Compact® EMC half gland</p> <ul style="list-style-type: none"> • Metal • for hoods  | <p>19 62 000 5056 19 62 000 5057 19 62 000 5058</p> | <p>M25 M25 M25</p>  | <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">cable</th> <th rowspan="2">SW</th> </tr> <tr> <th>min.</th> <th>max.</th> </tr> </thead> <tbody> <tr> <td>19 62 000 5056</td> <td>10,5 mm</td> <td>14 mm</td> <td>28</td> </tr> <tr> <td>19 62 000 5057</td> <td>10,5 mm</td> <td>14 mm</td> <td>28</td> </tr> <tr> <td>19 62 000 5058</td> <td>14 mm</td> <td>17 mm</td> <td>28</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">shielding</th> </tr> <tr> <th>min.</th> <th>max.</th> </tr> </thead> <tbody> <tr> <td>19 62 000 5056</td> <td>9 mm</td> <td>13 mm</td> </tr> <tr> <td>19 62 000 5057</td> <td>6 mm</td> <td>11 mm</td> </tr> <tr> <td>19 62 000 5058</td> <td>9 mm</td> <td>13 mm</td> </tr> </tbody> </table> | | 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 |
| | 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

Accessories

| Identification | Part number | | Drawing | Dimensions in mm |
|---|-----------------------|--|---------|--|
| <p>Protection covers</p> <ul style="list-style-type: none"> • Thermoplastic • for housings • for mounted male insert  | <p>09 12 008 5407</p> | | |  |
| <p>Protection covers</p> <ul style="list-style-type: none"> • Thermoplastic • for housings • for mounted female insert  | <p>09 12 008 5408</p> | | |  |
| <p>Gasket for plastic housings, bulkhead mounting, straight</p>  | <p>09 12 000 9912</p> | | |  |
| <p>Gasket for plastic housings, bulkhead mounting, angled, and for housings, surface mounting</p>  | <p>09 12 000 9911</p> | | |  |

| Identification | Part number | Drawing | Dimensions in mm | | | | | | | | | | | | |
|--|-----------------------|-----------------------|------------------|-----------------------|--------------|-----------------------|--------------|-----------------------|--------------|-----------------------|-------------------|-----------------------|--|--|--|
| <p>Panel feed through seals</p> <p>Cable diameter</p> <div style="display: flex; align-items: center;">  <table border="0"> <tr> <td style="padding-right: 10px;">7 ... 10 mm</td> <td>09 12 000 9969</td> </tr> <tr> <td>10 ... 13 mm</td> <td>09 12 000 9970</td> </tr> <tr> <td>13 ... 16 mm</td> <td>09 12 000 9971</td> </tr> <tr> <td>16 ... 19 mm</td> <td>09 12 000 9972</td> </tr> <tr> <td>19 ... 22 mm</td> <td>09 12 000 9973</td> </tr> <tr> <td> blind grommet</td> <td>09 12 000 9974</td> </tr> </table> </div> | 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 | |  | |
| 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 | | | | | | | | | | | | | | |