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Han® Q 2/0 Crimp High Voltage	**Han 13.4**
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Han® Q 3/0 Crimp	**Han 13.10**
Han® Q 3/4 Crimp	**Han 13.12**
Han® Q 4/0 Crimp	**Han 13.15**
Han® Q 4/2 Crimp	**Han 13.17**
Han® Q 4/2 Axial screw	**Han 13.20**
Han® Q 5/0 Quick Lock	**Han 13.22**
Han® Q 5/0 Crimp	**Han 13.24**
Han® Q 7/0 Crimp	**Han 13.27**
Han® Q 8/0 Quick Lock	**Han 13.29**
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Han® Q 2/0 Crimp

Features

- High current rated compact designed connector
- Mating compatible to the axial screw version
- Suitable for Han® C crimp contacts
- Allows a cost optimised production of high quantities
- Finger safe male and female contacts
- 16 coding options

Technical characteristics

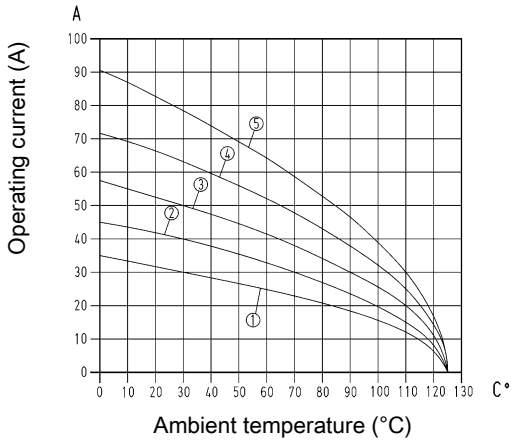
Number of contacts	2
Rated current	40 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	>10^{10} Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 1.5 mm²
② Conductor cross-section 2.5 mm²
③ Conductor cross-section 4 mm²
④ Conductor cross-section 6 mm²
⑤ Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

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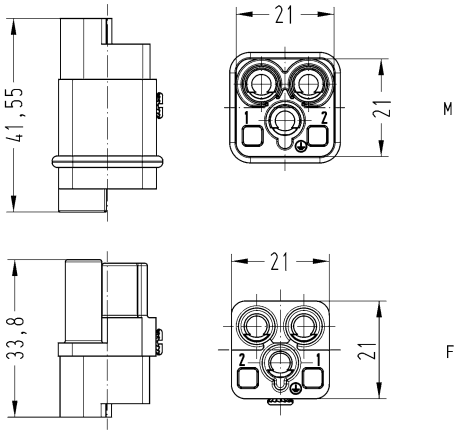
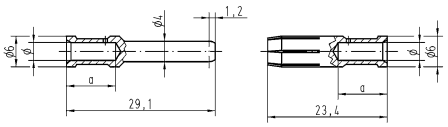
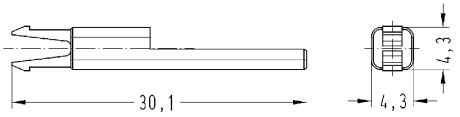
Han® Q 2/0 Crimp

Size 3 A

Number of contacts

2+ ⏚

40 A 400 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 2/0, Crimp termination Please order crimp contacts separately.	1.5 ... 10	09 12 002 3051	09 12 002 3151	 Contact arrangement (view from termination side)
Han® C, Crimp contact, Contact surface: Silver plated 	1.5 2.5 4 6 10	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108 09 32 000 6109	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208 09 32 000 6209	
Coding element 		09 12 000 9922		

Conductor cross-section		ø	Stripping length
1.5 mm²	AWG 16	1.75 mm	9.5 mm
2.5 mm²	AWG 14	2.25 mm	9.5 mm
4 mm²	AWG 12	2.85 mm	9.5 mm
6 mm²	AWG 10	3.5 mm	9.5 mm
10 mm²	AWG 8	4.3 mm	12 mm

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Han® Q 2/0 Crimp High Voltage

Features

- High current rated compact designed connector
- Mating compatible to the axial screw version
- Suitable for Han® C crimp contacts
- Allows a cost optimised production of high quantities
- Finger safe male and female contacts
- 16 coding options
- for high voltages, please use heat shrink tube (included in delivery range)

Technical characteristics

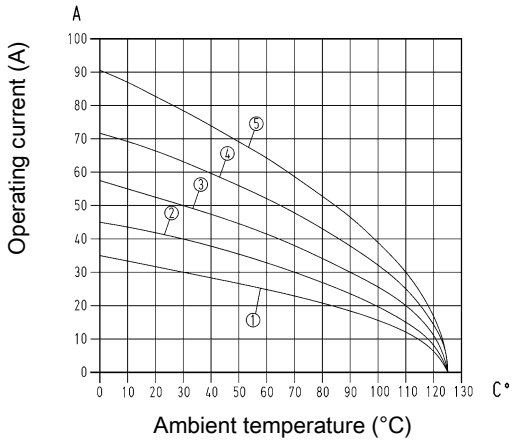
Number of contacts	2
Rated current	40 A
Rated voltage	830 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	>10^{10} Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 1.5 mm²
② Conductor cross-section 2.5 mm²
③ Conductor cross-section 4 mm²
④ Conductor cross-section 6 mm²
⑤ Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

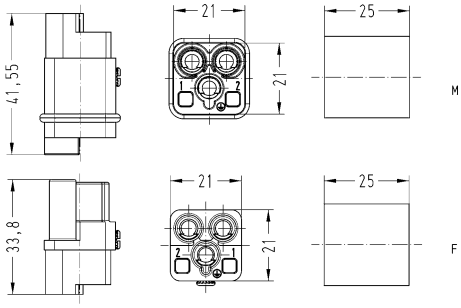
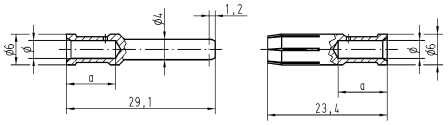
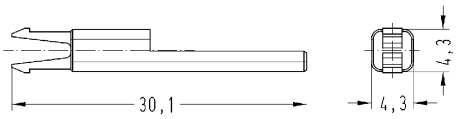
Han® Q 2/0 Crimp High Voltage

Size 3 A

Number of contacts

2+ ⏚

40 A 830 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 2/0 High Voltage, Crimp termination, Pack contents: With heat shrink tube Please order crimp contacts separately.	1.5 ... 10	09 12 002 3052	09 12 002 3152	 Contact arrangement (view from termination side)
Han® C, Crimp contact, Contact surface: Silver plated 	1.5 2.5 4 6 10	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108 09 32 000 6109	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208 09 32 000 6209	
Coding element 		09 12 000 9922		

Conductor cross-section		ø	Stripping length
1.5 mm²	AWG 16	1.75 mm	9.5 mm
2.5 mm²	AWG 14	2.25 mm	9.5 mm
4 mm²	AWG 12	2.85 mm	9.5 mm
6 mm²	AWG 10	3.5 mm	9.5 mm
10 mm²	AWG 8	4.3 mm	12 mm

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Han® Q 2/0 Axial screw

Features

- High current rated compact designed connector
- Mating compatible to the crimp version
- Finger safe male and female contacts
- 16 coding options
- No special tools required for axial-screw termination

Technical characteristics

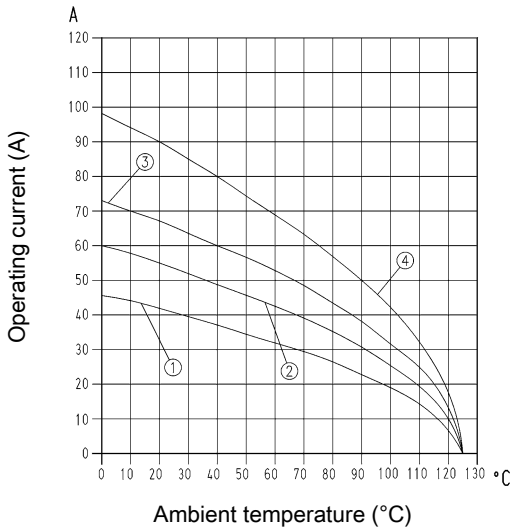
Number of contacts	2
Rated current	40 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	400 V
Rated voltage acc. to CSA	400 V
Insulation resistance	>10^{10} Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant

Derating

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 acc. to IEC 60512-5-2

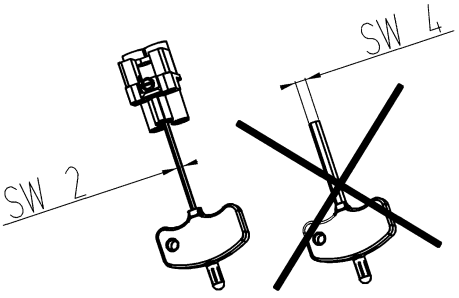


① Conductor cross-section 2.5 mm²
② Conductor cross-section 4 mm²
③ Conductor cross-section 6 mm²
④ Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details



for termination please use only hexagonal screw driver with A/F 2
If PE contact is not used: Please screw the PE contact maximal on both sides clockwise with a hexagonal screwdriver A/F 2.

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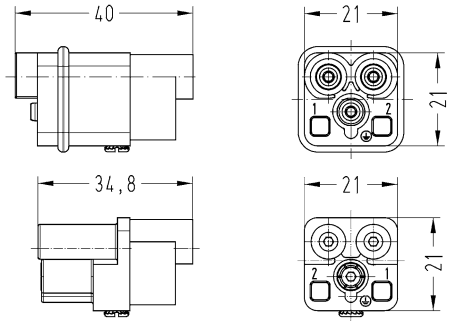
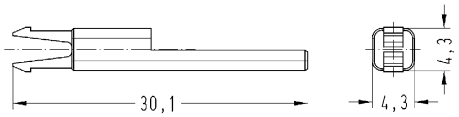
Han® Q 2/0 Axial screw

Size 3 A

Number of contacts

2+ ⏚

40 A 400 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 2/0, Axial screw termination, Contact surface: Silver plated 	1.5 ... 2.5 2.5 ... 6 4 ... 10	09 12 002 2655 09 12 002 2653 09 12 002 2651	09 12 002 2755 09 12 002 2753 09 12 002 2751	 Stripping length 8 ... 9 mm Tightening torque 1.8 Nm
Coding element 		09 12 000 9922		

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Han® Q 2/0 Axial screw High Voltage

Features

- High current rated compact designed connector
- Mating compatible to the crimp version
- Finger safe male and female contacts
- 16 coding options
- No special tools required for axial-screw termination
- for high voltages, please use heat shrink tube (included in delivery range)

Technical characteristics

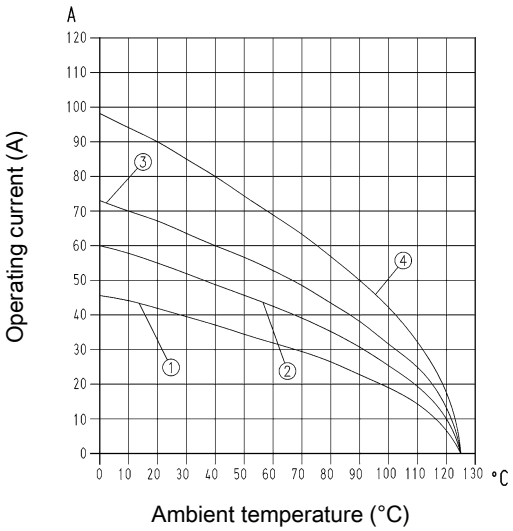
Number of contacts	2
Rated current	40 A
Rated voltage	830 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	>10^{10} Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant

Derating

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 acc. to IEC 60512-5-2

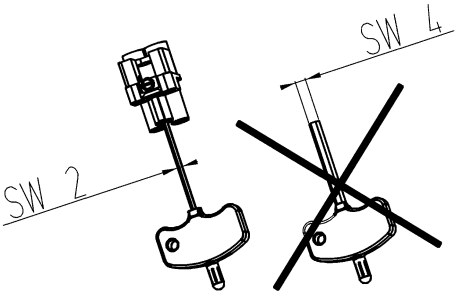


① Conductor cross-section 2.5 mm²
② Conductor cross-section 4 mm²
③ Conductor cross-section 6 mm²
④ Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details



for termination please use only hexagonal screw driver with A/F 2
If PE contact is not used: Please screw the PE contact maximal on both sides clockwise with a hexagonal screwdriver A/F 2.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

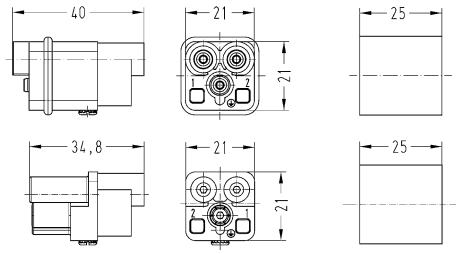
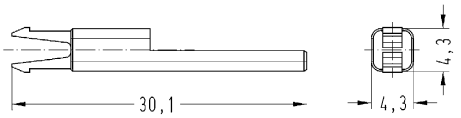
Han® Q 2/0 Axial screw High Voltage

Size 3 A

Number of contacts

2+ ⏚

40 A 830 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 2/0 High Voltage, Axial screw termination, Pack contents: With heat shrink tube Contact surface: Silver plated 	1.5 ... 2.5 2.5 ... 6 4 ... 10	09 12 002 2656 09 12 002 2654 09 12 002 2652	09 12 002 2756 09 12 002 2754 09 12 002 2752	 Stripping length 8 ... 9 mm Tightening torque 1.8 Nm
Coding element 		09 12 000 9922		

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Features

- High current rated compact designed connector
- 4 coding options
- Suitable for Han® C crimp contacts
- Finger safe male and female contacts
- Leading PE crimp contact

Technical characteristics

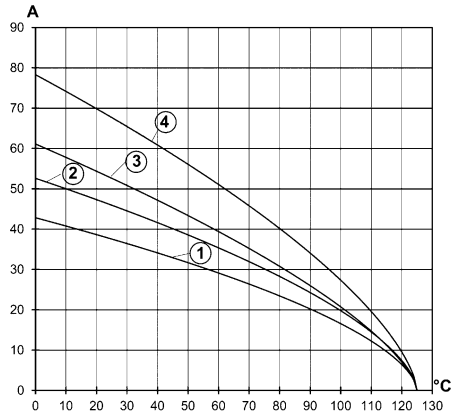
Number of contacts	3
Rated current	40 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 2.5 mm²
② Conductor cross-section 4 mm²
③ Conductor cross-section 6 mm²
④ Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

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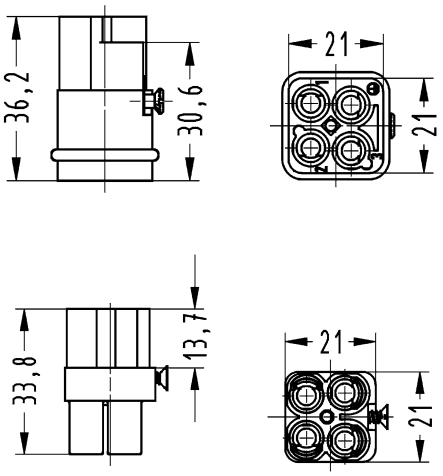
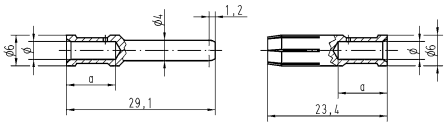
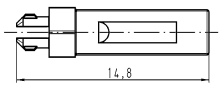
Han® Q 3/0 Crimp

Size 3 A

Number of contacts

3+ ⏚

40 A 400 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 3/0, Crimp termination Please order crimp contacts separately.	1.5 ... 10	09 12 003 3051	09 12 003 3151	
Han® C, Crimp contact, Contact surface: Silver plated 	1.5 2.5 4 6 10	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108 09 32 000 6109	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208 09 32 000 6209	
Coding element, Pack contents: 20 pieces per frame 		09 12 000 9924		

Conductor cross-section		ø	Stripping length
1.5 mm²	AWG 16	1.75 mm	9.5 mm
2.5 mm²	AWG 14	2.25 mm	9.5 mm
4 mm²	AWG 12	2.85 mm	9.5 mm
6 mm²	AWG 10	3.5 mm	9.5 mm
10 mm²	AWG 8	4.3 mm	12 mm

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Han® Q 3/4 Crimp

Features

- Han® C power contacts
- Han D® signal contacts
- Finger safe male and female contacts
- Leading PE crimp contact
- Suitable for standard plastic hoods/housings or metal hoods/housings with additional PE terminating contact on the hoods/housings from the Han-Compact® series

Technical characteristics

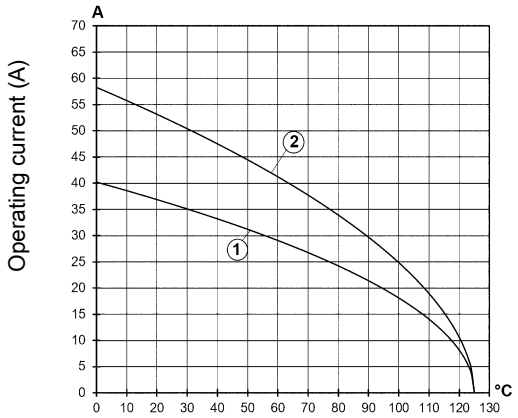
Number of contacts	3
Additional contacts	+ 4 additional signal contacts
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤1 mΩ, ≤3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 2.5 mm²
② Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL

Details

Contact resistance Han D® crimp contact: ≤ 3 mOhm

Contact resistance Han® C crimp contact: ≤ 1 mOhm

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

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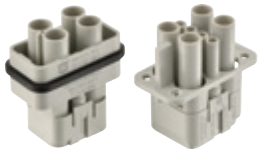
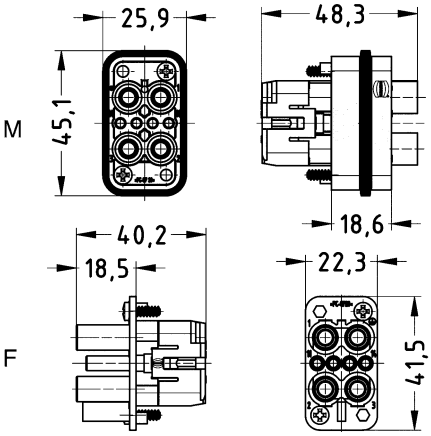
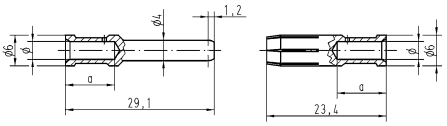
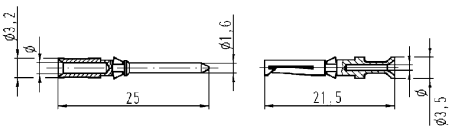
Number of contacts

3+ ⏚

40 A 400/690 V 6 kV 3
10 A 250 V 4 kV 3
+ 4 additional signal contacts

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 3/4, Crimp termination  Please order crimp contacts separately.		09 12 007 3041	09 12 007 3141	
Han® C, Crimp contact, Contact surface: 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	 Conductor cross-section / ø / Stripping length 1.5 mm² AWG 16 / 1.75 mm / 9.5 mm 2.5 mm² AWG 14 / 2.25 mm / 9.5 mm 4 mm² AWG 12 / 2.85 mm / 9.5 mm 6 mm² AWG 10 / 3.5 mm / 9.5 mm 10 mm² AWG 8 / 4.3 mm / 12 mm
Han D®, Crimp contact, Contact surface: 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	 Conductor cross-section / ø / Stripping length 0.14-0.37 mm² AWG 26-22 / 0.9 mm / 8 mm 0.5 mm² AWG 20 / 1.1 mm / 8 mm 0.75 mm² AWG 18 / 1.3 mm / 8 mm 1 mm² AWG 18 / 1.45 mm / 8 mm 1.5 mm² AWG 16 / 1.75 mm / 8 mm 2.5 mm² AWG 14 / 2.25 mm / 6 mm

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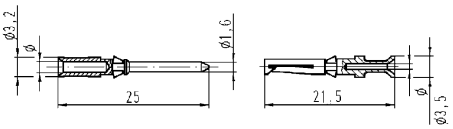
Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han D®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	

Conductor cross-section		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm
0.5 mm²	AWG 20	1.1 mm	8 mm
0.75 mm²	AWG 18	1.3 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

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Features

- High current rated compact designed connector
- 4 coding options
- Suitable for Han® C crimp contacts
- Finger safe male and female contacts

Technical characteristics

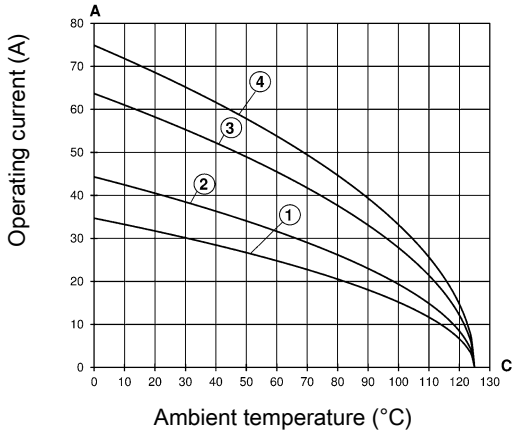
Number of contacts	4
Rated current	40 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 2.5 mm²
② Conductor cross-section 4 mm²
③ Conductor cross-section 6 mm²
④ Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Details

Attention! Only for thermoplastic hoods/housings!

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

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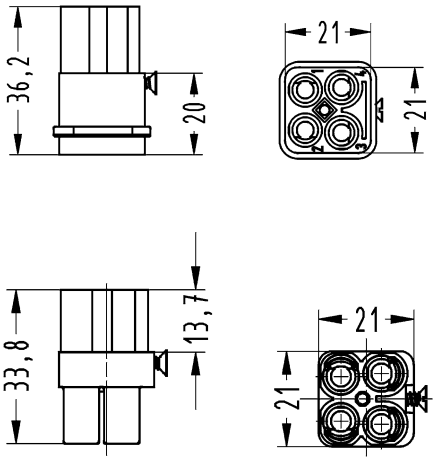
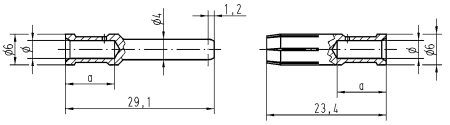
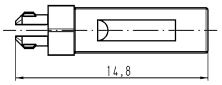
Han® Q 4/0 Crimp

Size 3 A

Number of contacts

4

40 A 830 V 8 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 4/0, Crimp termination Please order crimp contacts separately.	1.5 ... 10	09 12 004 3051	09 12 004 3151	
Han® C, Crimp contact, Contact surface: Silver plated 	1.5 2.5 4 6 10	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108 09 32 000 6109	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208 09 32 000 6209	 Conductor cross-section / ø / Stripping length 1.5 mm² AWG 16 / 1.75 mm / 9.5 mm 2.5 mm² AWG 14 / 2.25 mm / 9.5 mm 4 mm² AWG 12 / 2.85 mm / 9.5 mm 6 mm² AWG 10 / 3.5 mm / 9.5 mm 10 mm² AWG 8 / 4.3 mm / 12 mm
Coding element, Pack contents: 20 pieces per frame 		09 12 000 9924		

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Han® Q 4/2 Crimp

Features

- Han® C power contacts
- Han D® signal contacts
- Finger safe male and female contacts
- Leading PE crimp contact
- Suitable for standard plastic hoods/housings or metal hoods/housings with additional PE terminating contact on the hoods/housings from the Han-Compact® series
- Mating compatible to the axial screw version

Technical characteristics

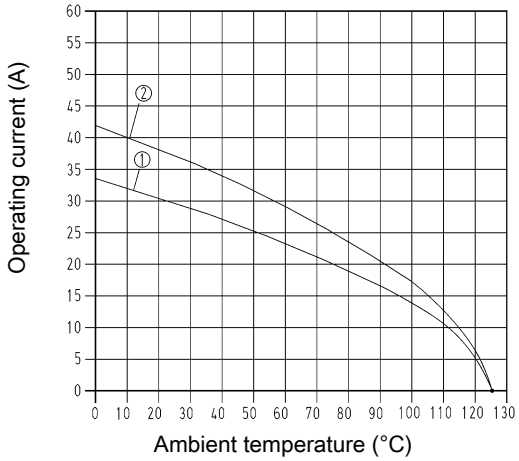
Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	250 V
Rated voltage acc. to CSA	600 V
Rated voltage acc. to CSA (signal)	250 V
Insulation resistance	>10^{10} Ω
Contact resistance	≤1 mΩ, ≤3 mΩ
Contact resistance, signal area	<3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 2.5 mm²
② Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Details

Contact resistance Han D® crimp contact: ≤ 3 mOhm

Contact resistance Han® C crimp contact: ≤ 1 mOhm

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

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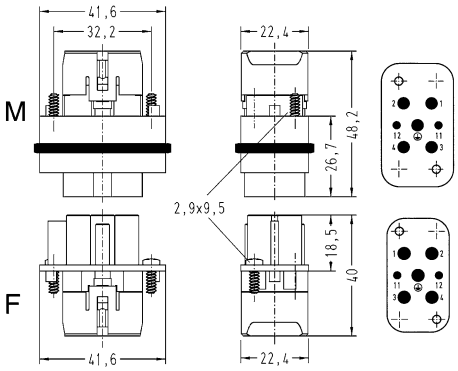
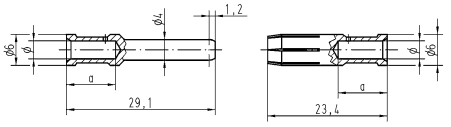
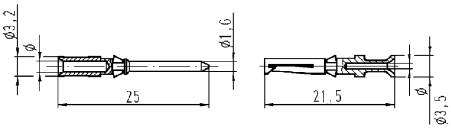
Number of contacts

4+ ⏚

40 A 400/690 V 6 kV 3
10 A 250 V 4 kV 3
+ 2 additional signal contacts

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 4/2, Crimp termination Please order crimp contacts separately.	1.5 ... 6, 0.14 ... 2.5 Signal	09 12 006 3041	09 12 006 3141	 Contact arrangement (view from termination side)
Han® C, Crimp contact, Contact surface: 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	

Conductor cross-section		ø	Stripping length
1.5 mm²	AWG 16	1.75 mm	9.5 mm
2.5 mm²	AWG 14	2.25 mm	9.5 mm
4 mm²	AWG 12	2.85 mm	9.5 mm
6 mm²	AWG 10	3.5 mm	9.5 mm
10 mm²	AWG 8	4.3 mm	12 mm

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han D®, Crimp contact, Contact surface: 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	

Conductor cross-section		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm
0.5 mm²	AWG 20	1.1 mm	8 mm
0.75 mm²	AWG 18	1.3 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

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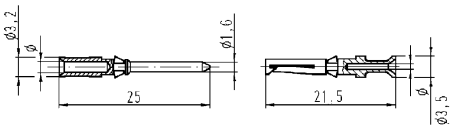
Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han D®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	

Conductor cross-section		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm
0.5 mm²	AWG 20	1.1 mm	8 mm
0.75 mm²	AWG 18	1.3 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

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Han® Q 4/2 Axial screw

Features

- Compact design saves space
- No special tools required
- Mating compatible to the crimp version
- Suitable for standard plastic hoods/housings or metal hoods/housings with additional PE terminating contact on the hoods/housings from the Han-Compact® series
- With or without Han-Quick Lock® signal contacts

Technical characteristics

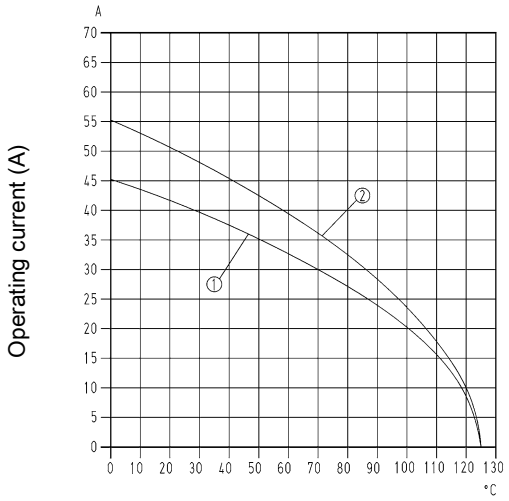
Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤0.3 mΩ
Contact resistance, signal area	<3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



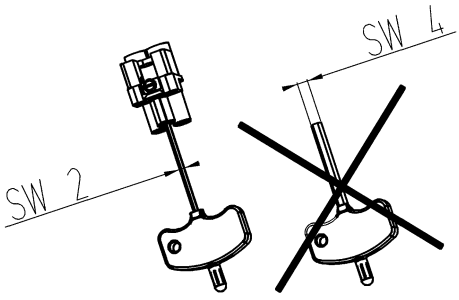
Ambient temperature (°C)

① Conductor cross-section 4 mm²
② Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details



for termination please use only hexagonal screw driver with A/F 2
If PE contact is not used: Please screw the PE contact maximal on both sides clockwise with a hexagonal screwdriver A/F 2.

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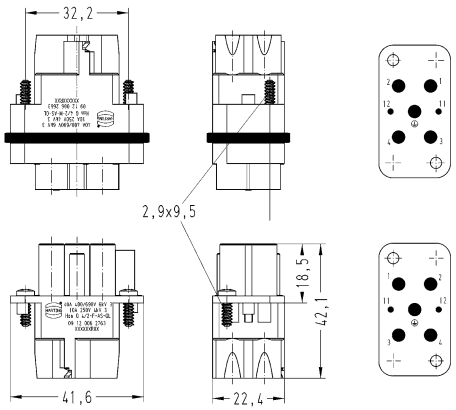
Han® Q 4/2 Axial screw

Size Han-Compact®

Number of contacts

4+ ⏚

40 A 400/690 V 6 kV 3
10 A 250 V 4 kV 3
+ 2 additional signal contacts

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 4/2, Axial screw termination, Contact surface: Silver plated With Han-Quick Lock® signal contacts	2.5 ... 6, 0.25 ... 1.5 Signal 4 ... 10, 0.25 ... 1.5 Signal	09 12 006 2662 09 12 006 2663	09 12 006 2762 09 12 006 2763	 Stripping length Power contacts 8 mm Stripping length Signal contacts 10 mm Tightening torque 1.8 Nm
Han® Q, 4/2, Axial screw termination, Contact surface: Silver plated Without signal contacts	2.5 ... 6 4 ... 10	09 12 006 2665 09 12 006 2666	09 12 006 2765 09 12 006 2766	

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Han® Q 5/0 Quick Lock

Features

- Innovative Han-Quick Lock® termination with reduced wiring times
- No special tools required
- Mating compatible to the crimp version
- Vibration and shock resistant

Technical characteristics

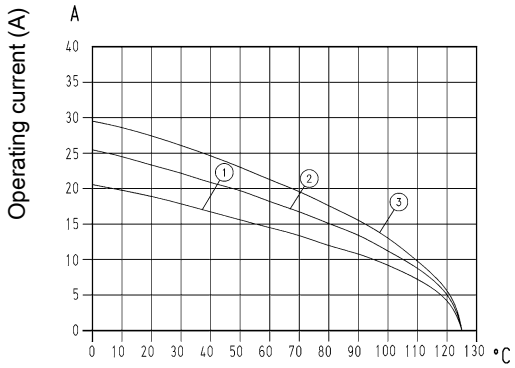
Number of contacts	5
Rated current	16 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	>10^{10} Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 1 mm²
② Conductor cross-section 1.5 mm²
③ Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

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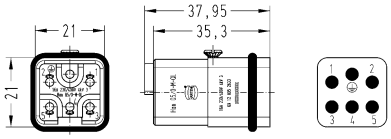
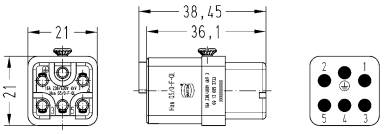
Han® Q 5/0 Quick Lock

Size 3 A

Number of contacts

5+ ⏚

16 A 230/400 V 4 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 5/0, Han-Quick Lock® termination, Contact surface: Silver plated Blue slide	0.5 ... 2.5	09 12 005 2633	09 12 005 2733	M  F  Stripping length 10 mm
Han® Q, 5/0, Han-Quick Lock® termination, Contact surface: Silver plated Black slide	0.25 ... 1.5	09 12 005 2634	09 12 005 2734	

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Features

- Compact design saves space
- Suitable for Han E® crimp contacts
- 32 coding options without loss of contacts

Technical characteristics

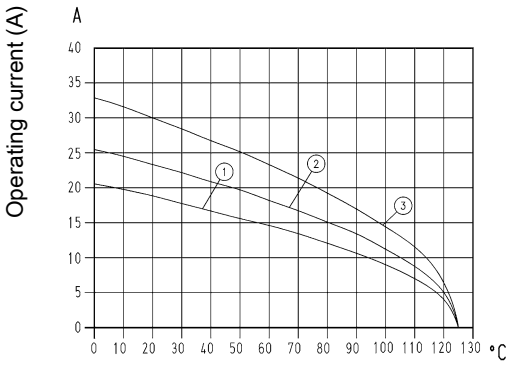
Number of contacts	5
Rated current	16 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Insulation resistance	>10^{10} Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Polyamide (PA)
Colour (accessories)	Red
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant

Derating

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 acc. to IEC 60512-5-2



Ambient temperature (°C)

① Conductor cross-section 1 mm²
② Conductor cross-section 1.5 mm²
③ Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

Coding pin

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.

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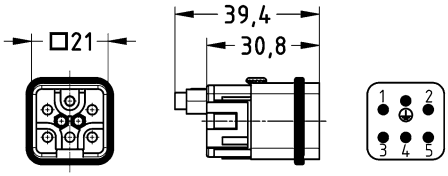
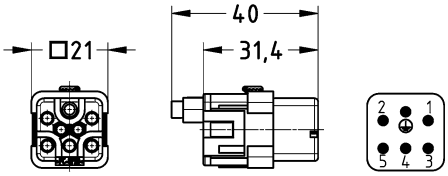
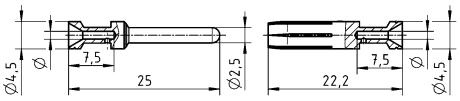
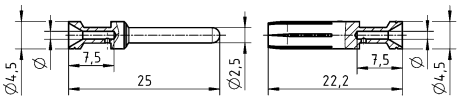
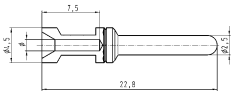
Han® Q 5/0 Crimp

Size 3 A

Number of contacts

5+ ⏚

16 A 230/400 V 4 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 5/0, Crimp termination Please order crimp contacts separately. Please order coding pins separately.	0.14 ... 2.5	09 12 005 3004	09 12 005 3104	  Contact arrangement (view from mating side)
Han E®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	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 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202	 Conductor cross-section / Identification 0.14-0.37 mm² AWG 26-22 — no groove 0.5 mm² AWG 20 — no groove 0.75 mm² AWG 18 — 1 groove* 1 mm² AWG 18 — 1 groove 1.5 mm² AWG 16 — 2 groove 2.5 mm² AWG 14 — 3 groove 3 mm² AWG 12 — wide groove 4 mm² AWG 12 — no groove * on the back crimp collar Stripping length 7.5 mm
Han E®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	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 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223	
Han E®, Crimp contact, Relay contact, Contact surface: Silver plated 	0.75 ... 1 1.5 2.5	09 33 000 6109 09 33 000 6110 09 33 000 6111		 Conductor cross-section / ø / Stripping length 0.75-1 mm² AWG 18 — 1.45 mm — 7.5 mm 1.5 mm² AWG 16 — 1.75 mm — 7.5 mm 2.5 mm² AWG 14 — 2.25 mm — 7.5 mm

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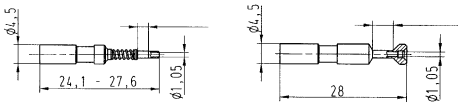
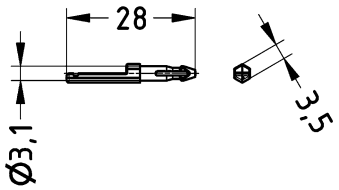
Han® Q 5/0 Crimp

Size 3 A

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
FO contact, for 1 mm plastic fibre 		20 10 001 3311	20 10 001 3321	 Crimp zone
Coding element, Pack contents: 20 pieces per frame 		09 12 000 9927	09 12 000 9927	

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Features

- Compact design saves space
- Suitable for Han D® crimp contacts
- 6 coding options

Technical characteristics

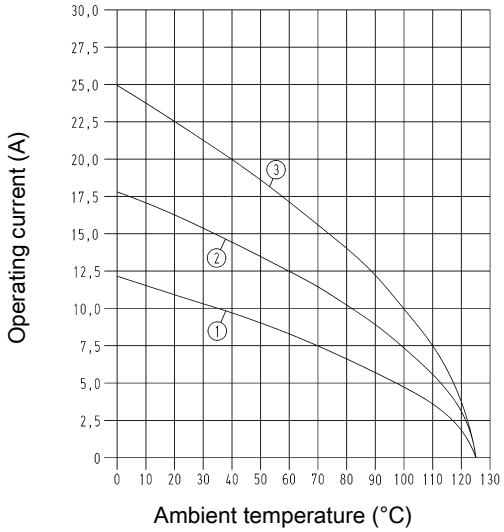
Number of contacts	7
Rated current	10 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 0.75 mm²
② Conductor cross-section 1.5 mm²
③ Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

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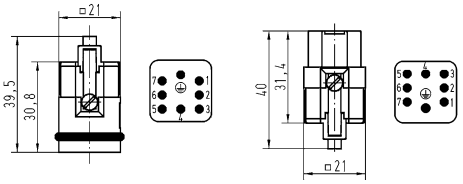
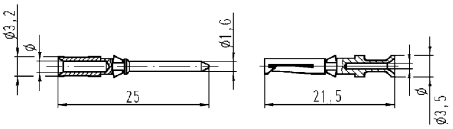
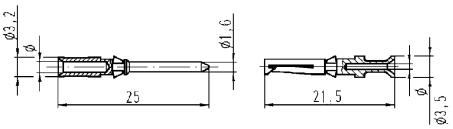
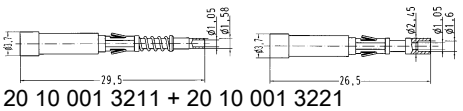
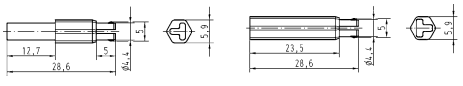
Han® Q 7/0 Crimp

Size 3 A

Number of contacts

7+ ⏚

10 A 400 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 7/0, Crimp termination Please order crimp contacts separately.	0.14 ... 2.5	09 12 007 3001	09 12 007 3101	 Contact arrangement (view from termination side)
Han D®, Crimp contact, Contact surface: 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	
Han D®, Crimp contact, Contact surface: 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	
FO contact, for 1 mm plastic fibre 		20 10 001 3211	20 10 001 3221	 20 10 001 3211 + 20 10 001 3221
Coding element 		09 12 000 9901	09 12 000 9902	

Conductor cross-section		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm
0.5 mm²	AWG 20	1.1 mm	8 mm
0.75 mm²	AWG 18	1.3 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

Conductor cross-section		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm
0.5 mm²	AWG 20	1.1 mm	8 mm
0.75 mm²	AWG 18	1.3 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

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Han® Q 8/0 Quick Lock

Features

- Innovative Han-Quick Lock® termination with reduced wiring times
- No special tools required
- Mating compatible to the crimp version
- Suitable for standard plastic hoods/housings or metal hoods/housings with additional PE terminating contact on the hoods/housings from the Han-Compact® series
- Leading PE crimp contact

Technical characteristics

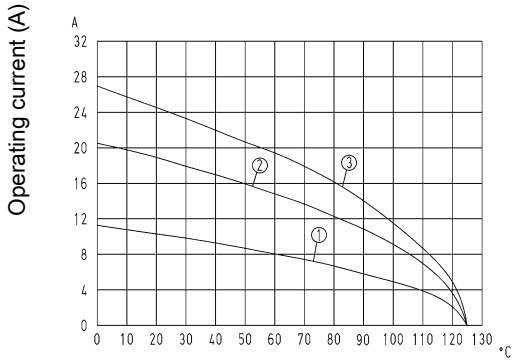
Number of contacts	8
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 0.5 mm²
② Conductor cross-section 1.5 mm²
③ Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

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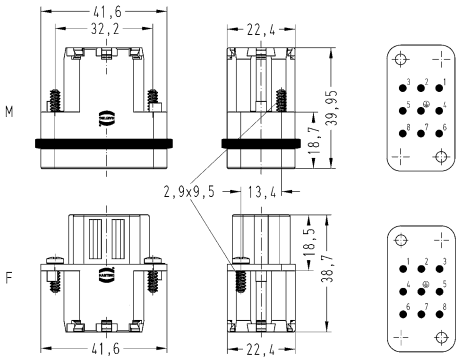
Han® Q 8/0 Quick Lock

Size Han-Compact®

Number of contacts

8+ ⏚

16 A 500 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 8/0, Han-Quick Lock® termination, Contact surface: Silver plated Blue slide	0.5 ... 2.5	09 12 008 2633	09 12 008 2733	 Stripping length 10 mm
Han® Q, 8/0, Han-Quick Lock® termination, Contact surface: Silver plated Black slide	0.25 ... 1.5	09 12 008 2634	09 12 008 2734	

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Han® Q 8/0 Crimp

Features

- Compact design saves space
- Suitable for Han E® crimp contacts
- Leading PE crimp contact
- ISO 23570 / DESINA conform product

Technical characteristics

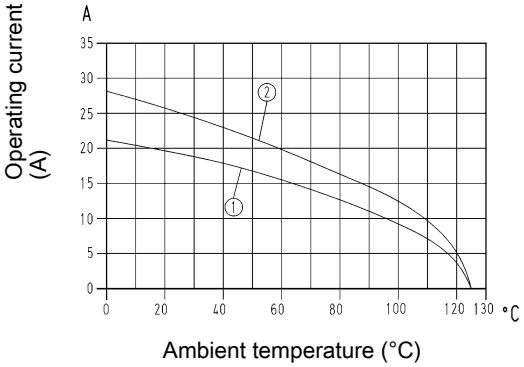
Number of contacts	8
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



Ambient temperature (°C)

① Conductor cross-section 1.5 mm²
② Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

Coding pin

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.

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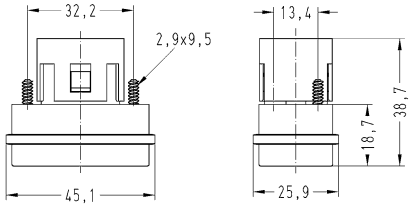
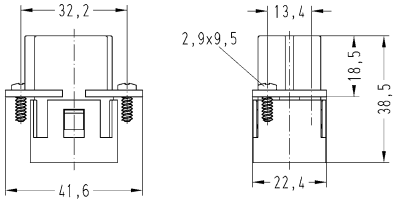
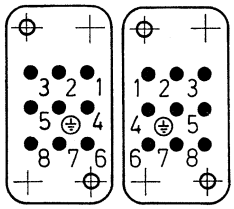
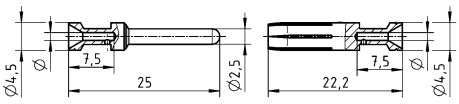
Number of contacts

8+ ⏚

16 A 500 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 8/0, Crimp termination Please order crimp contacts separately.	0.14 ... 4	09 12 008 3001	09 12 008 3101	M  F   Contact arrangement (view from termination side)
Han E®, Crimp contact, Contact surface: Silver plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 3 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 6106 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 6206 09 33 000 6207	 Conductor cross-section / Identification 0.14-0.37 mm² AWG 26-22 — no groove 0.5 mm² AWG 20 — no groove 0.75 mm² AWG 18 — 1 groove* 1 mm² AWG 18 — 1 groove 1.5 mm² AWG 16 — 2 groove 2.5 mm² AWG 14 — 3 groove 3 mm² AWG 12 — wide groove 4 mm² AWG 12 — no groove * on the back crimp collar Stripping length 7.5 mm

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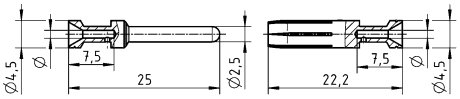
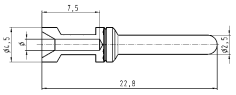
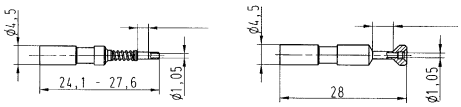
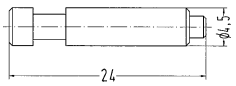
Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han E®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5 4	09 33 000 6117 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	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	

Conductor cross-section		Identification
0.14-0.37 mm²	AWG 26-22	no groove
0.5 mm²	AWG 20	no groove
0.75 mm²	AWG 18	1 groove*
1 mm²	AWG 18	1 groove
1.5 mm²	AWG 16	2 groove
2.5 mm²	AWG 14	3 groove
3 mm²	AWG 12	wide groove
4 mm²	AWG 12	no groove
* on the back crimp collar		

Stripping length 7.5 mm

Han E®, Crimp contact, Relay contact, Contact surface: Silver plated 	0.75 ... 1 1.5 2.5	09 33 000 6109 09 33 000 6110 09 33 000 6111		

Conductor cross-section		ø	Stripping length
0.75-1 mm²	AWG 18	1.45 mm	7.5 mm
1.5 mm²	AWG 16	1.75 mm	7.5 mm
2.5 mm²	AWG 14	2.25 mm	7.5 mm

FO contact, for 1 mm plastic fibre 		20 10 001 3311	20 10 001 3321	 Crimp zone
Han E®, Han® EE, Han® EEE, Coding pin for crimp inserts only With loss of one contact			09 33 000 9954	

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Features

- Suitable for Han D® crimp contacts
- PE contact with Han-Quick Lock® termination
- 16 coding options without loss of contacts

Technical characteristics

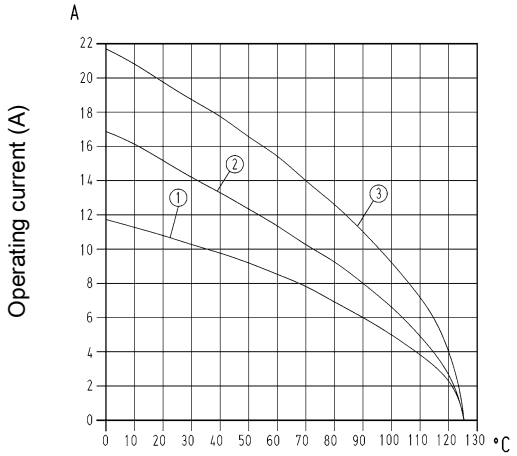
Number of contacts	12
Rated current	10 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 0.75 mm²
② Conductor cross-section 1.5 mm²
③ Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

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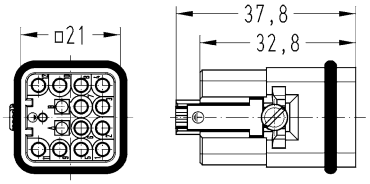
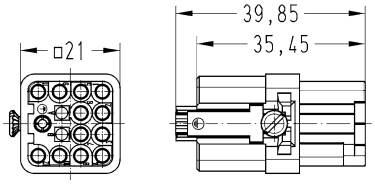
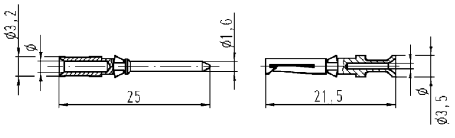
Han® Q 12/0 Crimp/Quick Lock

Size 3 A

Number of contacts

12+ ⏚

10 A 400 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 12/0, With Han-Quick Lock® PE contact, Crimp termination Blue slide Please order crimp contacts separately.	0.14 ... 2.5	09 12 012 3001	09 12 012 3101	M  F  With Han-Quick Lock® PE contact : Conductor cross-section Blue slide 0.5 ... 2.5 Conductor cross-section Black slide 0.25 ... 1.5
Han® Q, 12/0, With Han-Quick Lock® PE contact, Crimp termination Black slide Please order crimp contacts separately.	0.14 ... 2.5	09 12 012 3004	09 12 012 3104	
Han D®, Crimp contact, Contact surface: 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	

Conductor cross-section		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm
0.5 mm²	AWG 20	1.1 mm	8 mm
0.75 mm²	AWG 18	1.3 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

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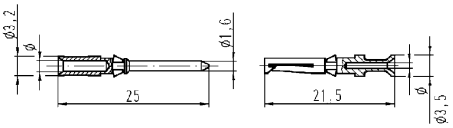
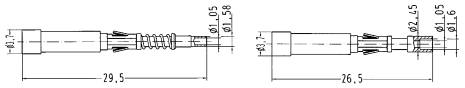
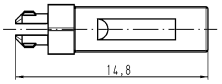
Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han D®, Crimp contact, Contact surface: Gold plated 	0.14 ... 0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	
FO contact, for 1 mm plastic fibre 		20 10 001 3211	20 10 001 3221	 20 10 001 3211 + 20 10 001 3221
Coding element, Pack contents: 20 pieces per frame 		09 12 000 9924		

Conductor cross-section		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm
0.5 mm²	AWG 20	1.1 mm	8 mm
0.75 mm²	AWG 18	1.3 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

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Features

- Compact design saves space
- Suitable for Han D® crimp contacts
- Leading PE crimp contact

Technical characteristics

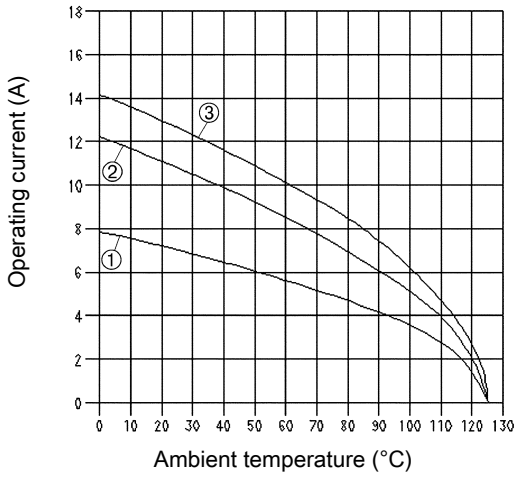
Number of contacts	17
Rated current	10 A
Rated voltage	160 V
Rated impulse voltage	2.5 kV
Pollution degree	3
Rated voltage acc. to UL	250 V
Rated voltage acc. to CSA	250 V
Insulation resistance	>10^{10} Ω
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

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 acc. to IEC 60512-5-2



① Conductor cross-section 0.5 mm²
② Conductor cross-section 1 mm²
③ Conductor cross-section 1.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

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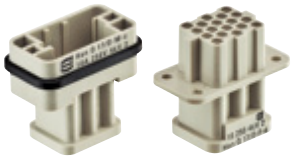
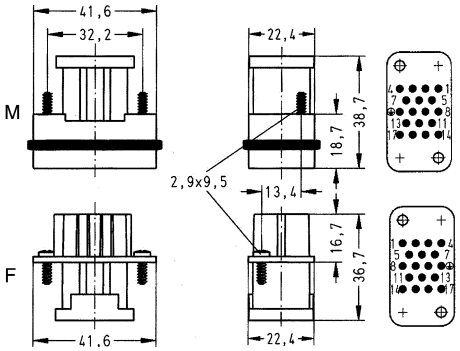
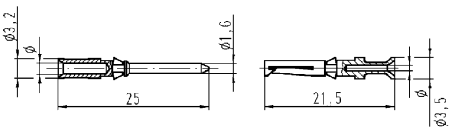
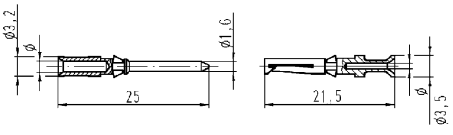
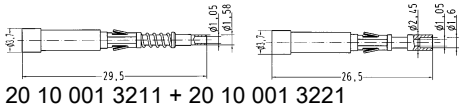
Number of contacts

17+ ⏚

10 A 160 V 2.5 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, 17/0, Crimp termination  Please order crimp contacts separately.	0.14 ... 2.5	09 12 017 3001	09 12 017 3101	 Contact arrangement (view from termination side)
Han D®, Crimp contact, Contact surface: 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	
Han D®, Crimp contact, Contact surface: 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	
FO contact, for 1 mm plastic fibre 		20 10 001 3211	20 10 001 3221	 20 10 001 3211 + 20 10 001 3221

Conductor cross-section		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm
0.5 mm²	AWG 20	1.1 mm	8 mm
0.75 mm²	AWG 18	1.3 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

Conductor cross-section		ø	Stripping length
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm
0.5 mm²	AWG 20	1.1 mm	8 mm
0.75 mm²	AWG 18	1.3 mm	8 mm
1 mm²	AWG 18	1.45 mm	8 mm
1.5 mm²	AWG 16	1.75 mm	8 mm
2.5 mm²	AWG 14	2.25 mm	6 mm

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Features

- Easy handling of signal connectors in industrial environment
- High density of contacts
- Suitable for standard D-Sub crimp contacts
- One preleading contact

Technical characteristics

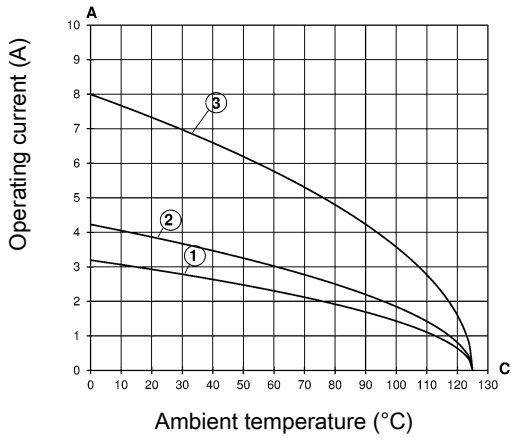
Number of contacts	21
Rated current	6.5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage	50 V AC, 120 V DC
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤10 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

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 acc. to IEC 60512-5-2



① Stamped contacts Conductor cross-section 0.14 mm²
② Stamped contacts Conductor cross-section 0.25 mm²
③ Turned contacts Conductor cross-section 0.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Crimping tools see chapter Han 90

Remarks on the crimp technique

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

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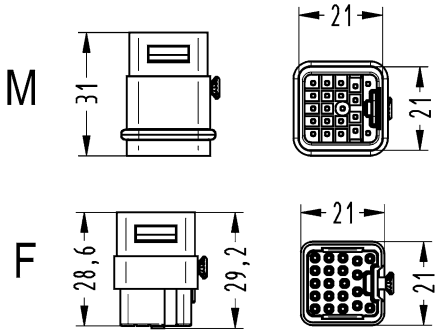
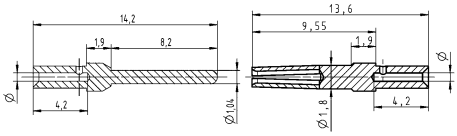
Han Q

Number of contacts

21

6.5 A 50 V 0.8 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, High Density, Crimp termination Please order crimp contacts separately.	0.09 ... 0.56	09 12 021 3001	09 12 021 3101	
D-Sub, Standard, Crimp contact 	0.09 ... 0.25 0.09 ... 0.25 0.13 ... 0.33 0.25 ... 0.52 0.25 ... 0.52	09 67 000 7576 09 67 000 7176 09 67 000 5576 09 67 000 8576 09 67 000 8176	09 67 000 7476 09 67 000 7276 09 67 000 5476 09 67 000 8476 09 67 000 8276	

Conductor cross-section	ø	Stripping length
0.09-0.25 mm²	0.64 mm	4 mm
0.13-0.33 mm²	0.88 mm	4 mm
0.25-0.52 mm²	1.13 mm	4 mm
0.33-0.82 mm²	1.34 mm	4 mm
for stranded wire according IEC 60228 Class 5		

Conductor cross-section	max. insulation diameter	Stripping length
0.09-0.25 mm²	1.02 mm	2.5 mm + 0.5
0.25-0.52 mm²	1.52 mm	2.5 mm + 0.5

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Han® Q Data RJ45

Features

- Combination connector: Ethernet connector based on RJ45 with up to 10 signal D-Sub contacts, crimp termination
- Turned D-Sub contacts of performance level 1
- Compact design saves space
- High density of contacts

Technical characteristics

Number of contacts	8
Rated current	5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤10 mΩ
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984

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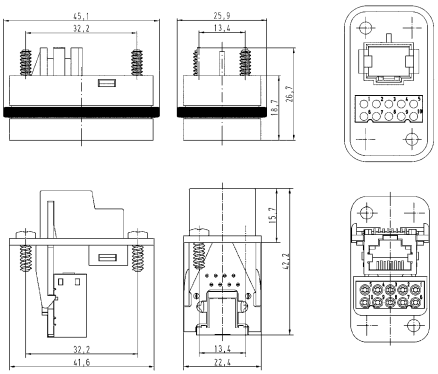
Number of contacts

8

5 A 50 V 0.8 kV 3

Identification	Conductor cross-section (mm²)	Part number Male	Part number Female	Drawing (dimensions in mm)
Han® Q, Data RJ45, Crimp termination Please order crimp contacts separately.	0.13 ... 0.52	09 12 011 3001	09 12 011 3111	
D-Sub, Standard, Crimp contact 	0.13 ... 0.33 0.25 ... 0.52	09 67 000 5576 09 67 000 8576	09 67 000 5476 09 67 000 8476	

Conductor cross-section	ø	Stripping length
0.09-0.25 mm²	0.64 mm	4 mm
0.13-0.33 mm²	0.88 mm	4 mm
0.25-0.52 mm²	1.13 mm	4 mm
0.33-0.82 mm²	1.34 mm	4 mm
for stranded wire according IEC 60228 Class 5		

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Features

- Hoods/housings for industrial applications
- Compact design saves space

Technical characteristics

Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (hood/housing)	Polycarbonate (PC)
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide (PA)
Colour (locking)	RAL 9005 (jet black)
Material flammability class acc. to UL 94	V-0
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant with exemption, compliant

Specifications and approvals

UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

CE

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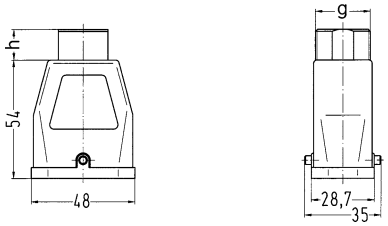
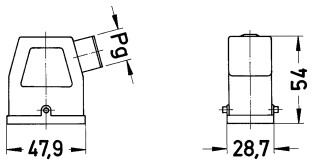
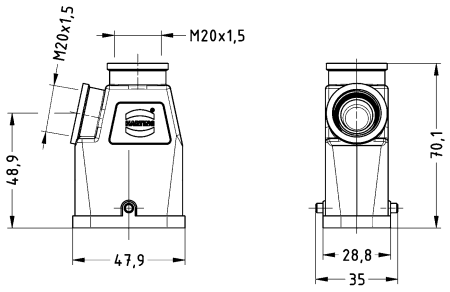
Hoods/housings for industrial applications
Single locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Compact®, Hood, for Han-Compact® half cable gland, Top entry, IP65	1x M25 1x Pg 16 1x Pg 21	19 12 008 0429 09 12 008 0427 09 12 008 0429	
Han-Compact®, Hood, for flexible conduits Adaptaflex PAFS18, Top entry, IP65	1x PAFS 18	09 12 008 0428	
Han-Compact®, Hood, for Han-Compact® half cable gland, Side entry, IP65	1x Pg 16	09 12 008 0527	
Han-Compact®, Hood, Top/side entry, IP65	2x M20	19 12 008 0425	

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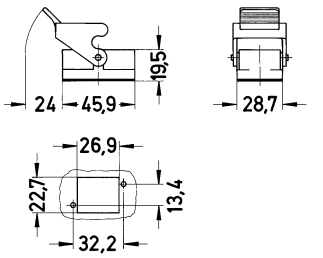
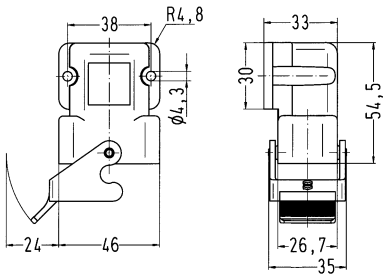
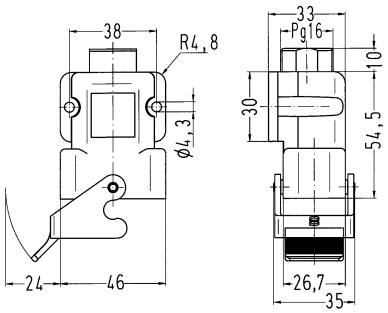
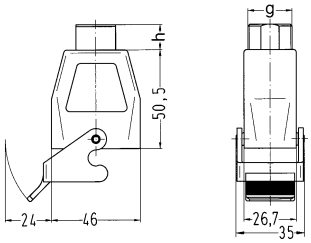
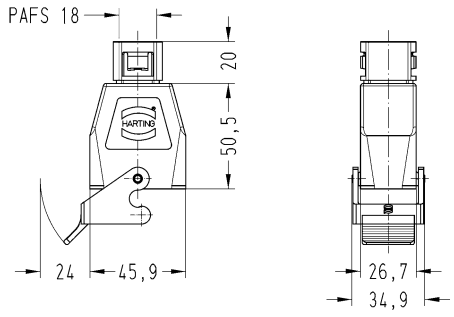
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Compact®, Bulkhead mounted housing, Straight, IP65		09 12 008 0327	
Han-Compact®, Bulkhead mounted housing, Angled, IP65		09 12 008 0902	
Han-Compact®, Surface mounted housing, for Han-Compact® half cable gland, Angled entry, IP65	1x Pg 16	09 12 008 0901	
Han-Compact®, Cable to cable housing, for Han-Compact® half cable gland, Top entry, IP65	1x M25 1x Pg 16	19 12 008 0729 09 12 008 0727	
Han-Compact®, Cable to cable housing, for flexible conduits Adaptaflex PAFS18, Top entry, IP65	1x PAFS 18	09 12 008 0728	

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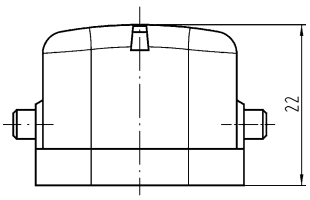
Han Q

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Compact®, Protection cover, for bulkhead mounted housings, Thermoplastic, IP65 for mounted male insert		09 12 008 5407	
Han-Compact®, Protection cover, for bulkhead mounted housings, Thermoplastic, IP65 for mounted female insert		09 12 008 5408	

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Technical characteristics

Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	12
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Powder-coated, Chromated
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Stainless steel
RoHS	compliant

Specifications and approvals

UL 1977 ECBT2.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 ECBT8.E235076
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

CE

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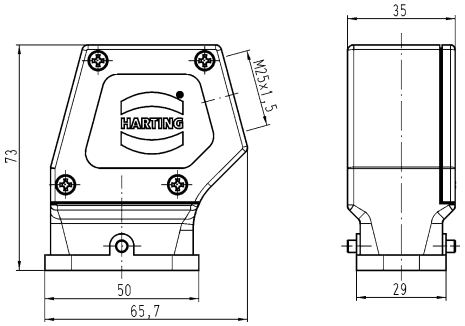
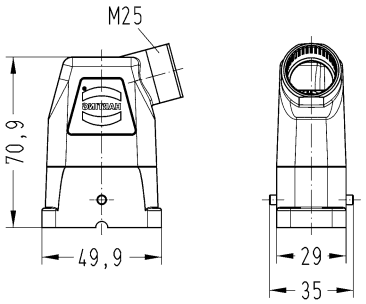
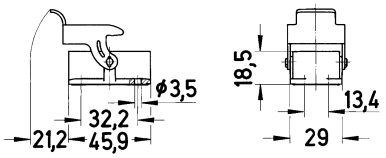
Hoods/housings for industrial applications
Single locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Compact®, Hood, for Han-Compact® half cable gland, With separate PE terminating point, for all inserts of size Han-Compact®, Top entry, IP65	1x M25	19 12 708 0411	
Han-Compact®, Hood, for standard cable gland, With separate PE terminating point, for all inserts of size Han-Compact®, Side entry, IP65	1x M25	19 12 008 0526	
Han-Compact®, Hood, for Han-Compact® half cable gland, With separate PE terminating point, for all inserts of size Han-Compact®, Side entry, IP65	1x M25	19 12 708 0511	
Han-Compact®, Bulkhead mounted housing, IP65		09 12 708 0301	

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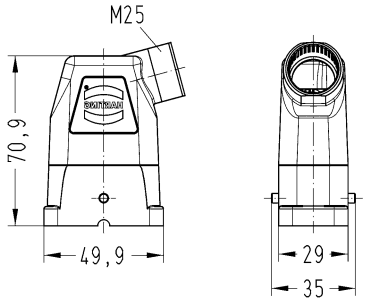
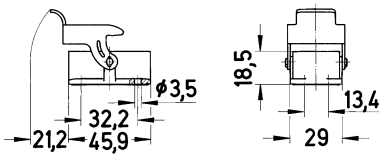
Hoods/housings for industrial applications
Single locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Compact®, Hood, for Han-Compact® half cable gland, With separate PE terminating point, for all inserts of size Han-Compact®, Top entry, IP65 	1x M25	19 12 008 0411	
Han-Compact®, Hood, for Han-Compact® half cable gland, With separate PE terminating point, for all inserts of size Han-Compact®, Side entry, IP65 	1x M25	19 12 008 0511	
Han-Compact®, Bulkhead mounted housing, IP65 		09 12 008 0301	

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Features

- Hoods/Housings for higher EMC requirements
- Separate PE connection option
- High degree of flexibility due to two-part assembly

Technical characteristics

Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	12
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Nickel plated
Material (seal)	NBR
Material (locking)	Stainless steel
RoHS	compliant, compliant with exemption

Specifications and approvals

UL 1977 ECBT2.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 ECBT8.E235076
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

CE

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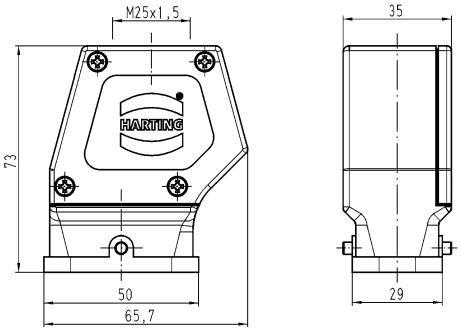
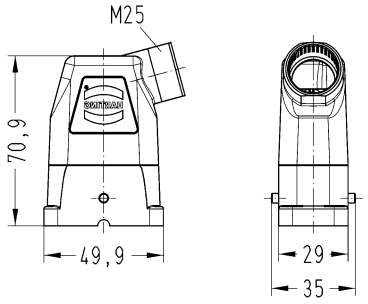
Hoods/Housings for higher EMC requirements
Single locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Compact®, Hood, for Han-Compact® half cable gland, With separate PE terminating point, for all inserts of size Han-Compact®, Top entry, IP65	1x M25	19 12 008 0412	
Han-Compact®, Hood, for standard cable gland, With separate PE terminating point, for all inserts of size Han-Compact®, Top entry, IP65	1x M25	19 12 008 0428	
Han-Compact®, Hood, for Han-Compact® half cable gland, With separate PE terminating point, for all inserts of size Han-Compact®, Side entry, IP65	1x M25	19 12 008 0512	

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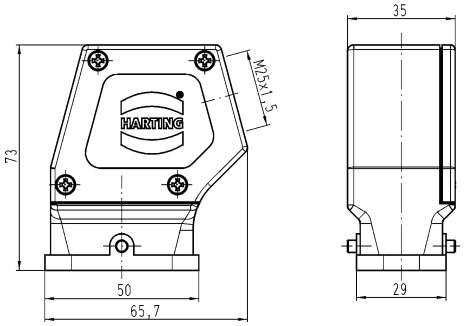
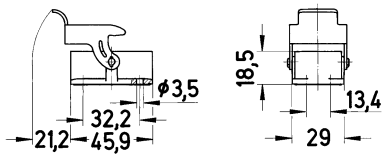
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Compact®, Hood, for standard cable gland, With separate PE terminating point, for all inserts of size Han-Compact®, Side entry, IP65 	1x M25	19 12 008 0528	
Han-Compact®, Bulkhead mounted housing, IP65 		09 12 008 0303	

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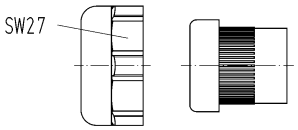
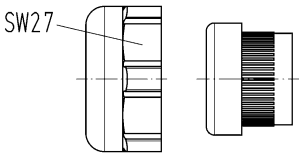
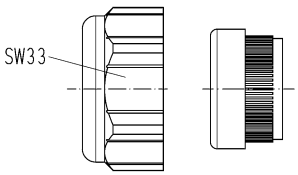
Technical characteristics

Limiting temperature	-40 ... +100 °C
Degree of protection acc. to IEC 60529	IP65

Technical characteristics

Material (cable glands)	Thermoplastic
Colour (accessories)	Black
RoHS	compliant, compliant with exemption

Identification	Size	Clamping range (mm)	Part number	Drawing (dimensions in mm)
Han-Compact®, Cable gland, for hoods, for cable to cable housing, Pg 16, IP65	Pg 16 Pg 16 Pg 16	6.5 ... 9.5 9 ... 13 11.5 ... 15.5	09 00 000 5047 09 00 000 5156 09 00 000 5059	
Han-Compact®, Cable gland, for surface mounted housings, Pg 16, IP65	Pg 16 Pg 16	6.5 ... 9.5 11.5 ... 15.5	09 00 000 5057 09 00 000 5058	
Han-Compact®, Cable gland, for hoods, for cable to cable housing, Pg 21, IP65	Pg 21 Pg 21	14 ... 18 17 ... 20.5	09 00 000 5157 09 00 000 5158	

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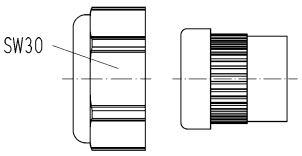
Identification	Size	Clamping range (mm)	Part number	Drawing (dimensions in mm)
Han-Compact®, Cable gland, for hoods, for cable to cable housing, M25, IP65 	M25 M25 M25	6.5 ... 9.5 10.5 ... 14 14 ... 17	19 12 000 5156 19 12 000 5157 19 12 000 5158	

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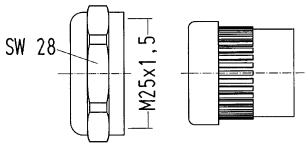
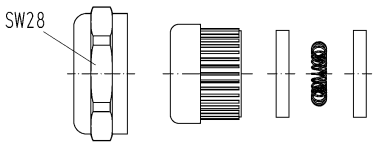
Technical characteristics

Limiting temperature	-40 ... +130 °C
Degree of protection acc. to IEC 60529	IP65

Technical characteristics

Material (cable glands)	Metal
RoHS	compliant with exemption

Identification	Size	Clamping range (mm)	Part number	Drawing (dimensions in mm)
Han-Compact®, Cable gland, for hoods, IP65	M25 M25	10.5 ... 14 14 ... 17	19 12 000 5057 19 12 000 5058	
Han-Compact®, Cable gland, EMC version, for hoods	M25 M25 M25	10.5 ... 14 10.5 ... 14 14 ... 17	19 62 000 5056 19 62 000 5057 19 62 000 5058	

	Cable	Shielding	SW
19 62 000 5056	10.5 ... 14 mm	9 ... 13 mm	28
19 62 000 5057	10.5 ... 14 mm	6 ... 11 mm	28
19 62 000 5058	14 ... 17 mm	9 ... 13 mm	28

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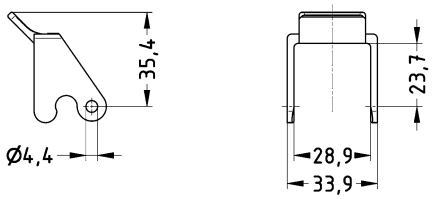
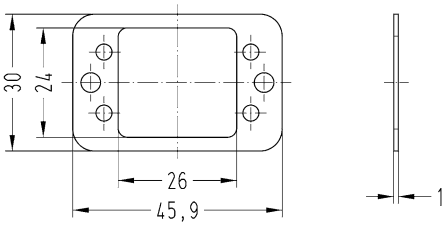
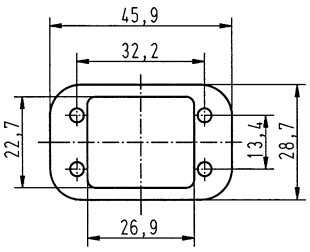
Technical characteristics

Material (seal)	NBR
Colour (seal)	Black

Technical characteristics

Material (accessories)	Thermoplastic
Colour (accessories)	Black
RoHS	compliant

Identification	Size	Part number	Drawing (dimensions in mm)
Locking levers, Han® Q 8/0, Black	Han-Compact®	09 00 000 5244	
Flange gasket, for bulkhead mounted plastic housings, angled, for surface mounted housings	Han-Compact®	09 12 000 9911	
Flange gasket, for bulkhead mounted plastic housings, straight	Han-Compact®	09 12 000 9912	

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