Plastic hoods/housings

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

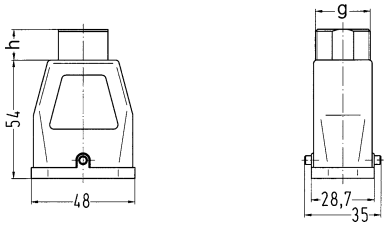
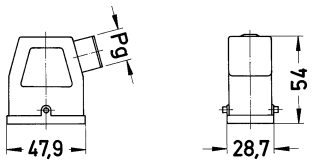
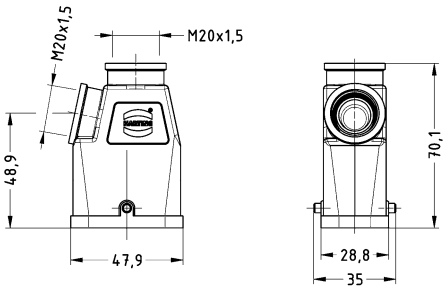
Specifications and approvals

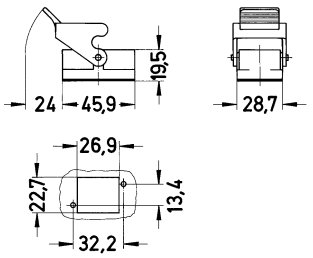
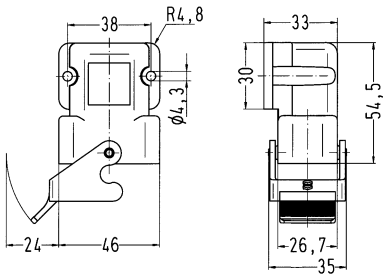
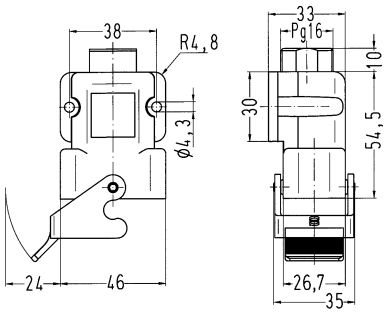
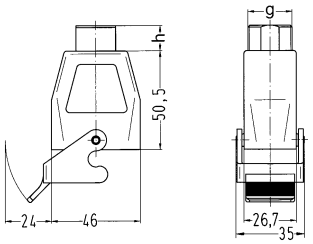
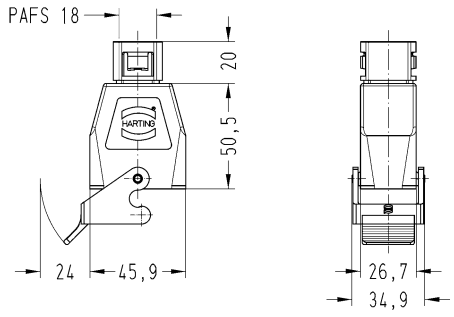
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

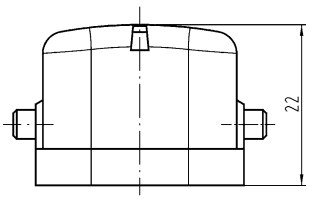
CE

Han Q

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	

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	

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	

Technical characteristics

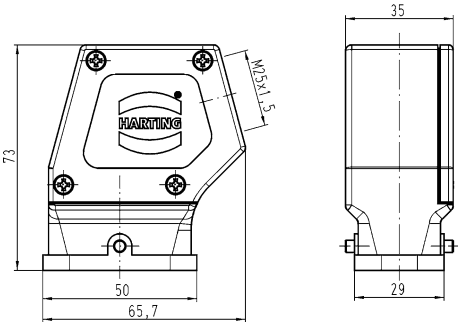
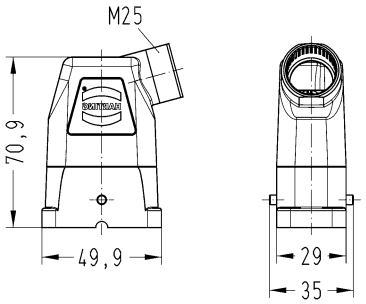
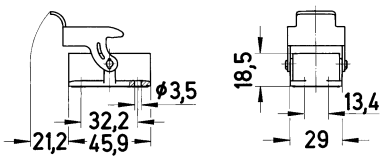
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	12
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Powder-coated, Chromated
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Stainless steel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

Specifications and approvals

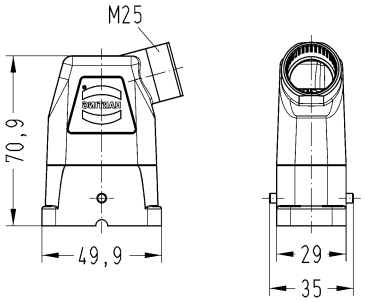
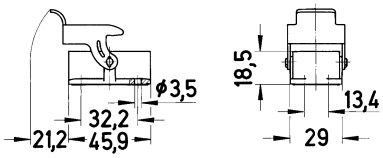
UL 1977 ECBT2.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 ECBT8.E235076
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

CE

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	

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	

Features

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

Technical characteristics

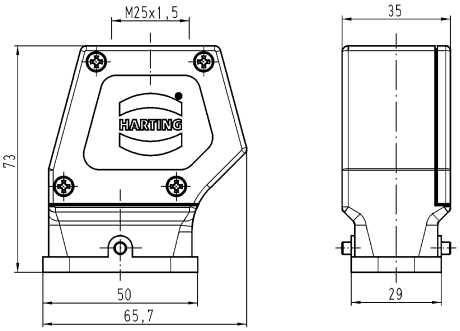
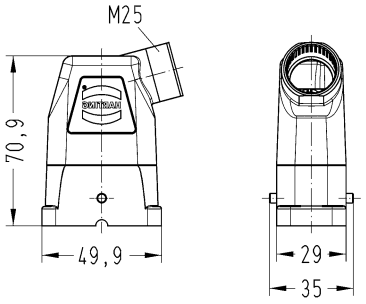
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	12
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Nickel plated
Material (seal)	NBR
Material (locking)	Stainless steel
RoHS	compliant, compliant with exemption

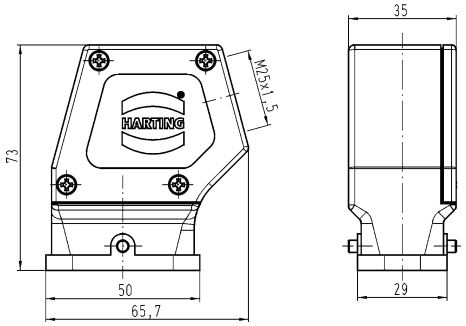
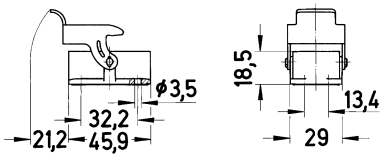
Specifications and approvals

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

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	

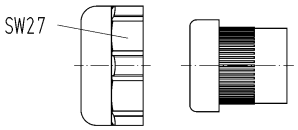
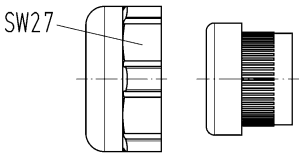
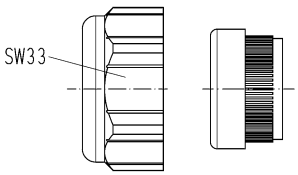
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Compact®, Hood, for standard cable gland, With separate PE terminating point, for all inserts of size Han-Compact®, Side entry, IP65 	1x M25	19 12 008 0528	
Han-Compact®, Bulkhead mounted housing, IP65 		09 12 008 0303	

Technical characteristics

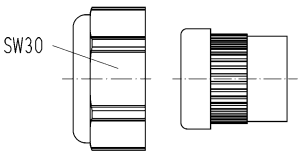
Limiting temperature	-40 ... +100 °C
Degree of protection acc. to IEC 60529	IP65

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	

Accessories

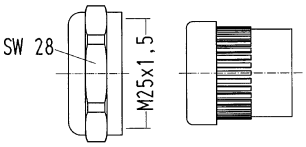
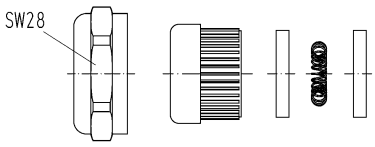
Identification	Size	Clamping range (mm)	Part number	Drawing (dimensions in mm)
Han-Compact®, Cable gland, for hoods, for cable to cable housing, M25, IP65 	M25 M25 M25	6.5 ... 9.5 10.5 ... 14 14 ... 17	19 12 000 5156 19 12 000 5157 19 12 000 5158	

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	

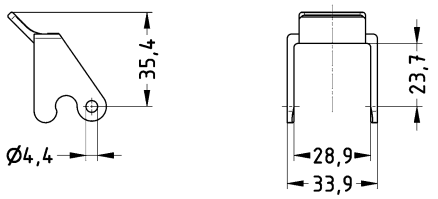
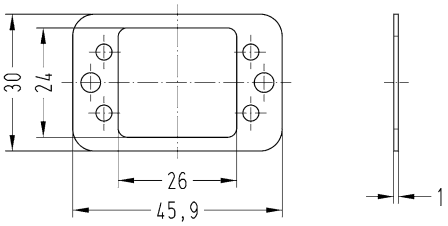
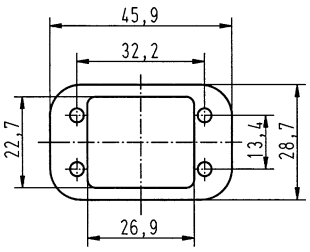
	Cable	Shielding	SW
19 62 000 5056	10.5 ... 14 mm	9 ... 13 mm	28
19 62 000 5057	10.5 ... 14 mm	6 ... 11 mm	28
19 62 000 5058	14 ... 17 mm	9 ... 13 mm	28

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	

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

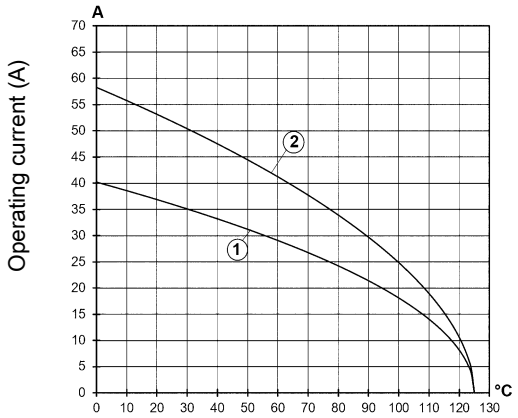
Number of contacts	3
Additional contacts	+ 4 additional signal contacts
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	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

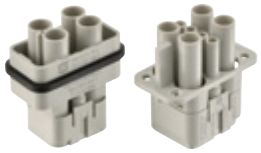
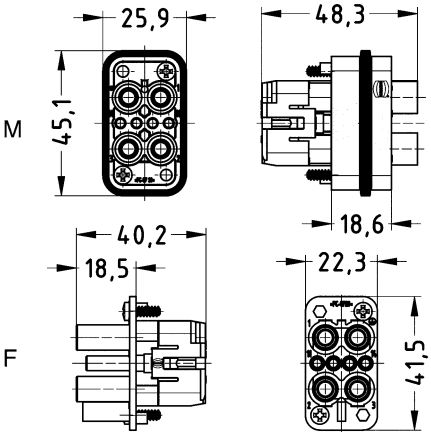
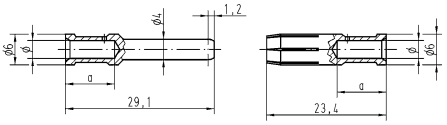
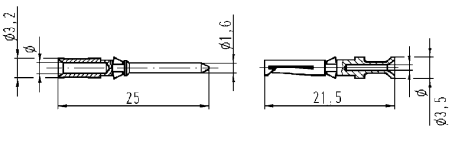
Remarks on the crimp technique

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

Number of contacts

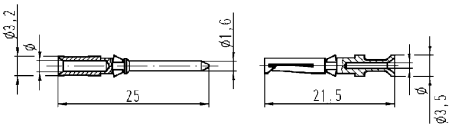
3+ ⏚

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	
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
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

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

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

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

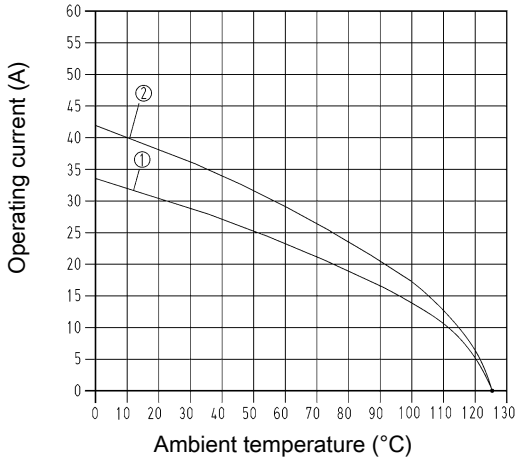
Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	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

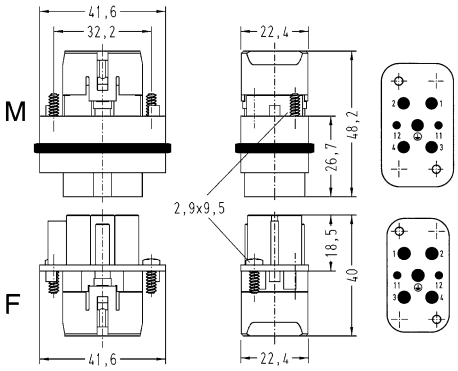
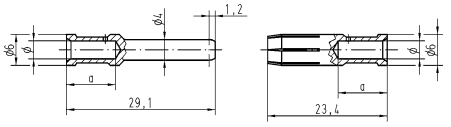
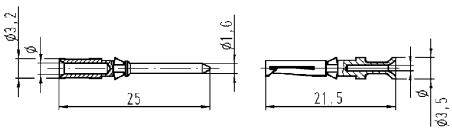
Remarks on the crimp technique

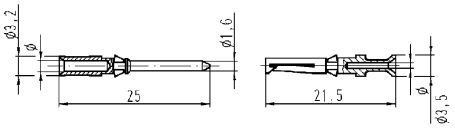
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

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
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

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

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

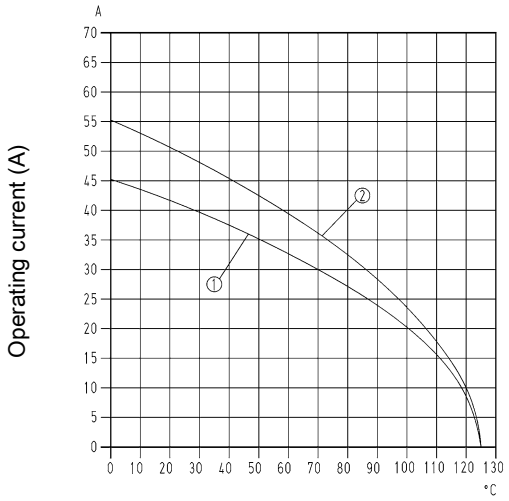
Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	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



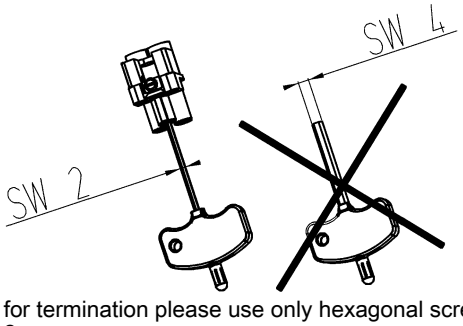
Ambient temperature (°C)

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

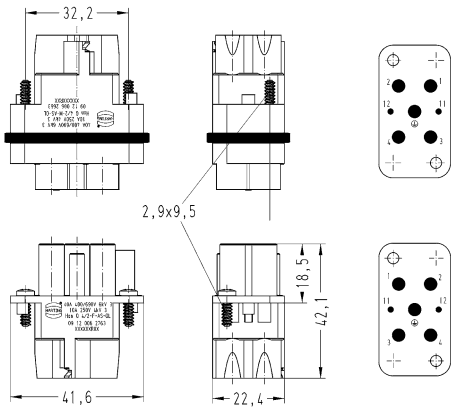


for termination please use only hexagonal screw driver with A/F 2
If PE contact is not used: Please screw the PE contact maximal on both sides clockwise with a hexagonal screwdriver A/F 2.

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	

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

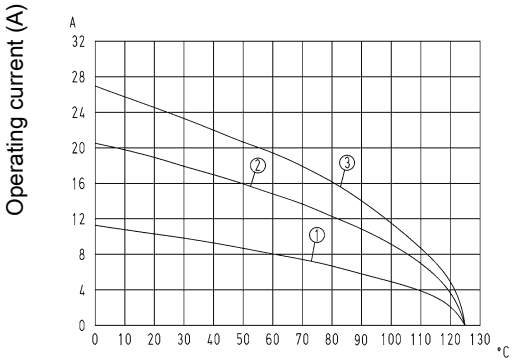
Number of contacts	8
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	>10^{10} Ω
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	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



Ambient temperature (°C)

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

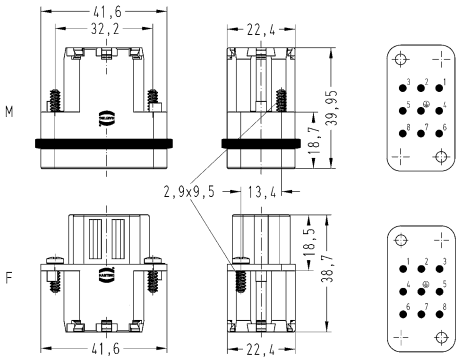
Specifications and approvals

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

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	

Features

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

Technical characteristics

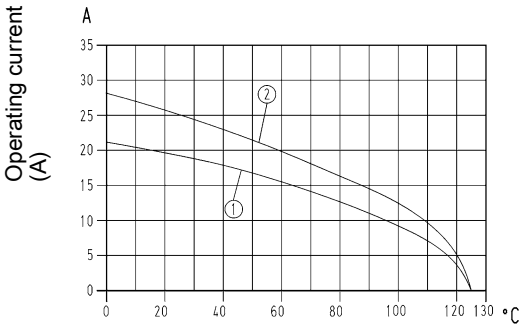
Number of contacts	8
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	$>10^{10}$ Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	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.

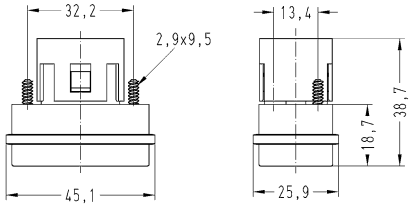
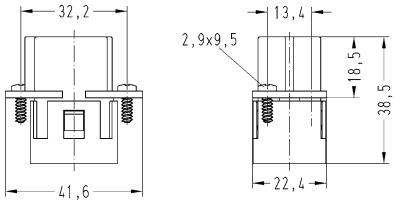
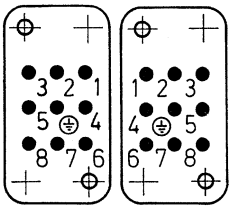
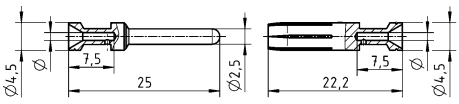
Coding pin

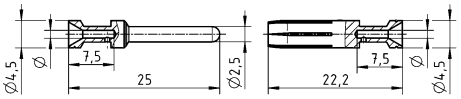
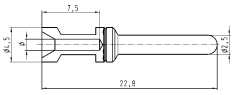
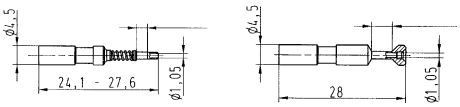
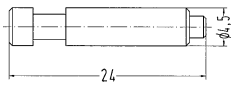
Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

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

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	

Features

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

Technical characteristics

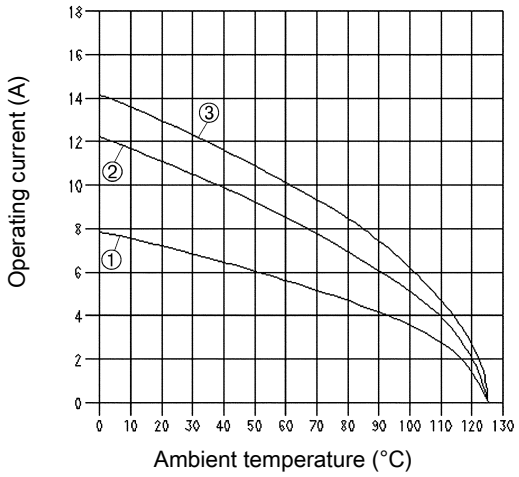
Number of contacts	17
Rated current	10 A
Rated voltage	160 V
Rated impulse voltage	2.5 kV
Pollution degree	3
Rated voltage acc. to UL	250 V
Rated voltage acc. to CSA	250 V
Insulation resistance	>10^{10} Ω
Contact resistance	≤3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	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

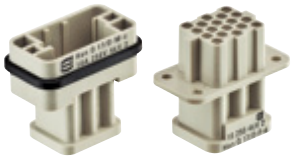
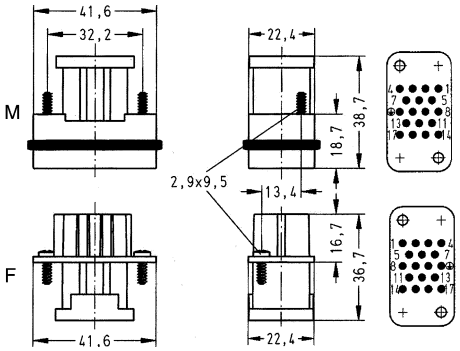
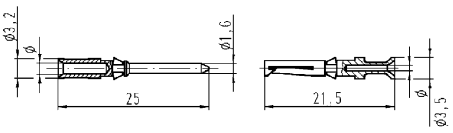
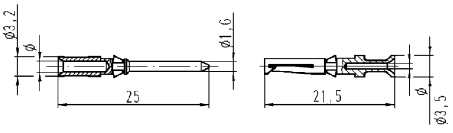
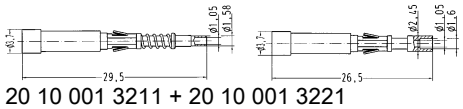
Remarks on the crimp technique

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

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	 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
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
FO contact, for 1 mm plastic fibre 		20 10 001 3211	20 10 001 3221	 20 10 001 3211 + 20 10 001 3221

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

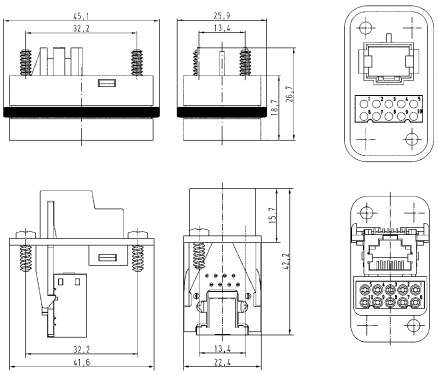
Specifications and approvals

EN 60664-1
IEC 61984

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		