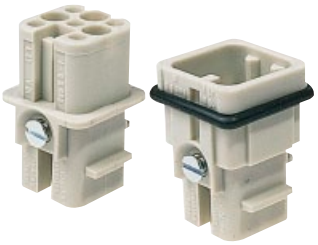
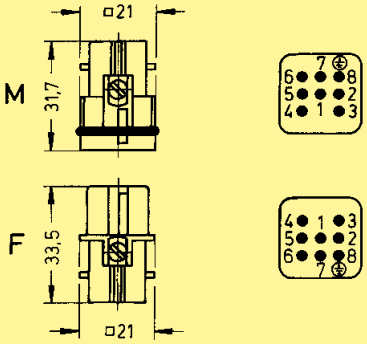
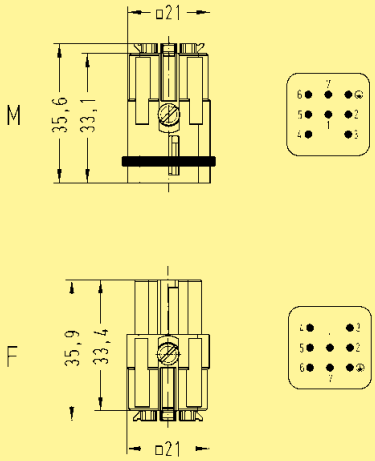
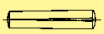
Number of contacts

7 + ⏚





## Inserts

| Identification | Series | Part number Male insert (M) | Part number Female insert (F) | Drawing | Dimensions in mm |
|---|---|---|---|---|---|
| Crimp terminal<br>Order crimp contacts separately (see Technical characteristics on page 02.04)<br>  <br>Attention<br>Only for thermoplastic hoods/housings | Han D® | **09 21 007 3031** | **09 21 007 3131** | Contact arrangement view from termination side<br>  | |
| Han® 7 D Quick Lock<br>  <br>Attention<br>Only for thermoplastic hoods/housings | Han D® | **09 21 007 2632** | **09 21 007 2732** | Contact arrangement view from termination side<br>  | |
| Coding pin<br> | | | 09 33 000 9915 | Coding pin<br>  <br>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. | |



Stock items in bold type

## Features

- High density of crimping contacts, up to 128 contacts / connector
- Time saving rapid termination by use of crimping contacts
- For requirements up to 250 V / 10 A
- Gold and silver contacts available
- Suitable for thermo- and 1 mm F.O. contacts

## Specifications

DIN EN 175 301-801
DIN EN 60 664-1
DIN EN 61 984

## Approvals

## Inserts

| | |
|---|---|
| Number of contacts | 7, 15, 25, 40, 50, 64, 80, 128, 50 (2x 25), 80 (2x 40), 128 (2x 64) + PE |
| Electrical data acc. to EN 61 984 | **10 A 250 V 4 kV 3** |
| Rated current | 10 A |
| Rated voltage | 250 V |
| Rated impulse voltage | 4 kV |
| Pollution degree | 3 |
| Pollution degree 2 also | 10 A 230/400 V 4 kV 2 |
| Rated voltage acc. to UL/CSA | 600 V |
| Rated voltage for wrap terminal acc. to CSA | 2 A 30 V |

Contact arrangement for higher voltage see page 02.22

| | |
|---|---|
| Insulation resistance | ≥ $10^{10}$ Ω |
| Material | polyamide |
| - Han® 40 D/Han® 64 D | polycarbonate |
| Limiting temperatures | -40 °C ... +125 °C |
| Flammability acc. to UL 94 | HB |
| - Han® 40 D/Han® 64 D | V 0 |
| Mechanical working life - mating cycles | ≥ 500 |

## Contacts

| | |
|---|---|
| Material | copper alloy |
| Surface - hard-gold plated | 2 µm Au over 3 µm Ni |
| Surface - hard-silver plated | 3 µm Ag |
| Contact resistance | ≤ 3 mΩ |
| Crimp terminal - min | 0.14 mm² / AWG 26 |
| Crimp terminal - max | 2.5 mm² / AWG 14 |
| Wire wrap terminal | 1 x 1 mm - length 22 mm Diagonal 1.34 - 1.45 mm Contact spacing 5.08 mm (40 + 64 poles) Contact spacing 5.3 mm (15 + 25 poles) |
| Han-Quick Lock® - min | 0.25 mm² / AWG 24 |
| Han-Quick Lock® - max | 1.5 mm² / AWG 16 |

## Hoods/Housings

| | |
|---|---|
| Material | aluminium die-cast |
| Surface | powder coated RAL 7037 (grey) |
| Locking element | Han-Easy Lock® |
| Flammability acc. to UL 94 | V 0 |
| Hoods/Housings seal | NBR |
| Limiting temperatures | -40 °C ... +125 °C |
| Degree of protection acc. to DIN EN 60 529 for coupled connector | IP 65 |

Variants for Han® 3 A housings (see page 02.03)

| | |
|---|---|
| Material | polycarbonate RAL 7032 (light grey) |
| Locking element | Polyamide RAL 7032 (light grey) |

## Accessories

| | |
|---|---|
| Crimping tools | chapter 99 |
| Cable clamps | chapter 40 |
| Coding of hoods/housings | chapter 40 |
| Label acc. to CSA-approval | chapter 40 |
| Han-Snap® | chapter 11 |
| Assembly plates for test connector | chapter 40 |

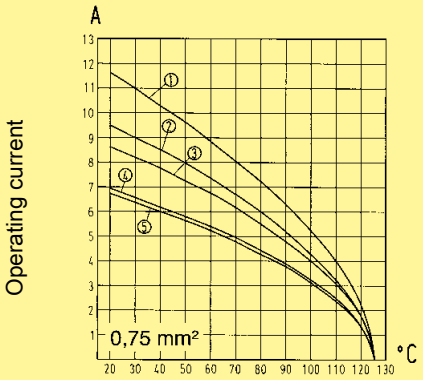
ATTENTION!
Guide pins and bushes are prescribed for the following connectors: 15, 25, 40, 50, 64, 80 and 128 poles (see chapter 40).

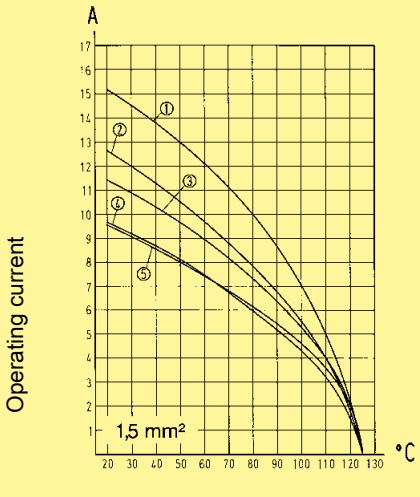
## Current carrying capacity

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

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



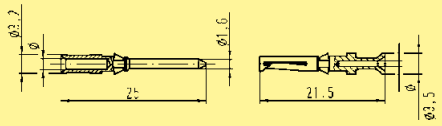



① Han® 7 D
② Han® 15 D
③ Han® 25 D
④ Han® 40 D
⑤ Han® 64 D

| Identification | Wire gauge (mm²) | Part number Male contact | Part number Female contact |
|---|---|---|---|
| **Crimp contacts** | | | |
| silver plated | 0.14-0.37 | **09 15 000 6104** | **09 15 000 6204** |
| | 0.5 | **09 15 000 6103** | **09 15 000 6203** |
| | 0.75 | **09 15 000 6105** | **09 15 000 6205** |
| | 1 | **09 15 000 6102** | **09 15 000 6202** |
| | 1.5 | **09 15 000 6101** | **09 15 000 6201** |
| | 2.5 | **09 15 000 6106** | **09 15 000 6206** |
| gold plated | 0.14-0.37 | **09 15 000 6124** | **09 15 000 6224** |
| | 0.5 | **09 15 000 6123** | **09 15 000 6223** |
| | 0.75 | **09 15 000 6125** | **09 15 000 6225** |
| | 1 | **09 15 000 6122** | **09 15 000 6222** |
| | 1.5 | **09 15 000 6121** | **09 15 000 6221** |
| | 2.5 | **09 15 000 6126** | **09 15 000 6226** |
| **F.O. contacts** | | | |
| for 1 mm plastic fibre | | **20 10 001 3212** | **20 10 001 3222** |
| | | **20 10 001 3213** | **20 10 001 3222** |

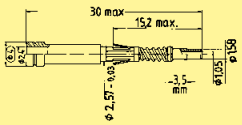
Drawing



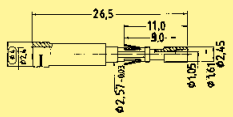
Dimensions in mm

| Wire gauge | | D | 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 |

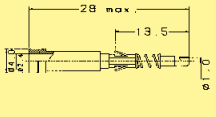
20 10 001 3212



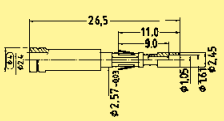
20 10 001 3222



20 10 001 3213



20 10 001 3222



| Part number | Series |
|---|---|
| 20 10 001 3212 | Han® 7 D, Han® 8 D, Han® 40 D, Han® 64 D, Han® 80 D, Han® 128 D |
| 20 10 001 3213 | Han® 15 D, Han® 25 D, Han® 50 D |
| 20 10 001 3222 | Han® 7 D, Han® 8 D, Han® 15 D, Han® 25 D, Han® 50 D, Han® 40 D, Han® 64 D, Han® 80 D, Han® 128 D |

**Stock items in bold type**

## Modified contact arrangement

The connector series Han DD® and Han D® equipped with all contacts may be used for voltages up to 250 V, pollution degree 3. A modified contact loading arrangement permits use up to 500 V also in the same pollution degree.

According to DIN EN 61 984 connectors should not be coupled or decoupled under electrical load.

## Series Han DD®

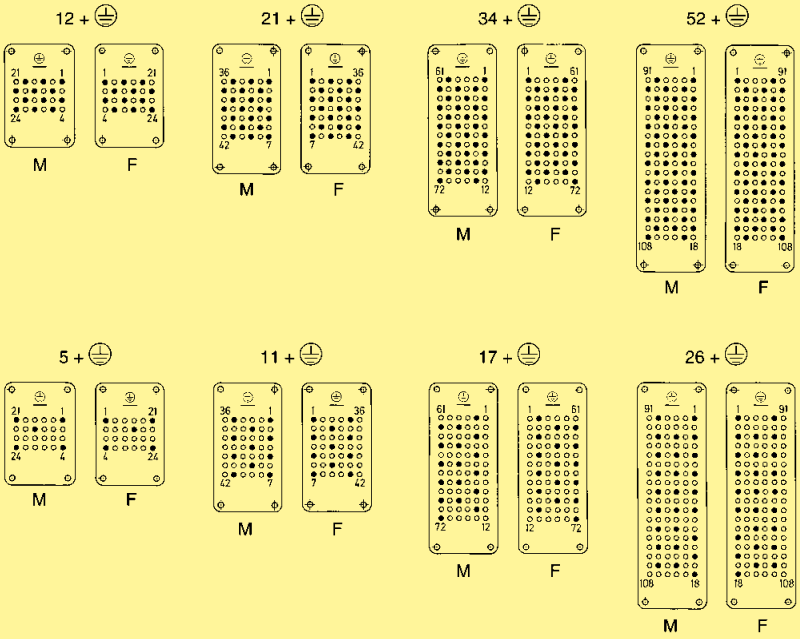
**10 A 400 V 6 kV 3**

| | |
|---|---|
| Rated current | 10 A |
| Rated voltage | 400 V |
| Rated impulse voltage | 6 kV |
| Pollution degree | 3 |

**10 A 500 V 6 kV 3**

| | |
|---|---|
| Rated current | 10 A |
| Rated voltage | 500 V |
| Rated impulse voltage | 6 kV |
| Pollution degree | 3 |

Contact arrangement view from termination side



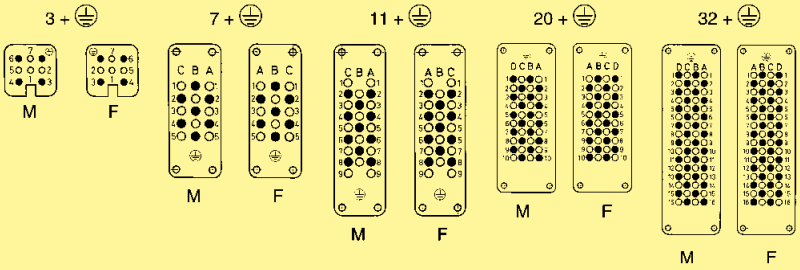

● Working contact ○ Without contact M - Male insert F - Female insert

## Series Han D®

**10 A 500 V 6 kV 3**

| | |
|---|---|
| Rated current | 10 A |
| Rated voltage | 500 V |
| Rated impulse voltage | 6 kV |
| Pollution degree | 3 |

Contact arrangement view from termination side




● Working contact ○ Without contact M - Male insert F - Female insert