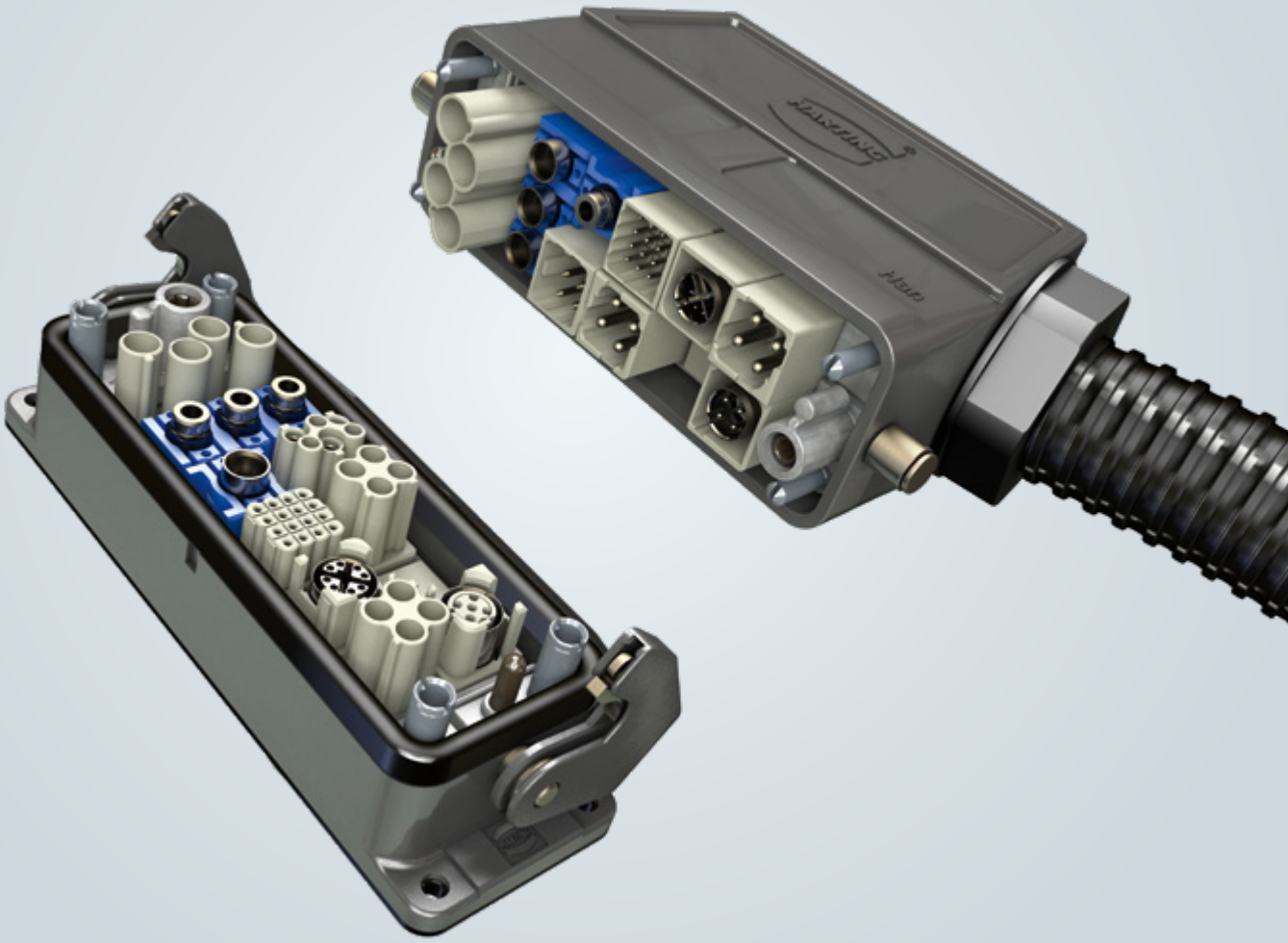
Pushing Performance
Since 1945



PEOPLE. POWER. PARTNERSHIP.

# HARTING
## Han-Modular® Connectors

## Description of the Han-Modular® system

The Han-Modular® series is designed for combining different transmission media in one connector. The multifaceted system of inserts, contacts, frames, hoods and housings as well as accessories fulfils individual customer requirements. The customer can choose between more than 100 different modules. These are suitable for different transmission media and cover various termination techniques. The patented Han-Modular® hinged frame enables the configuration of all modules in the well-accepted Han® hoods and housings.



Further additional solutions are available, e.g. suitable docking frames for drawer units. Individual customer requirements can be realised by means of the Han-Modular® series. Combining various transmission media in one single connector results in lower expenditures in installation time and production downtime. Space savings and cost savings are further benefits. The easy extension possibilities secure the ideal solution for an actual as well as future safe design.

## Highlights

- **Combination of different connectors to one unit**
- **Shorter installation times**
- **Important space saving**
- **Save money for components as well as for the whole industrial site**
- **Future safe design due to easy extensions**

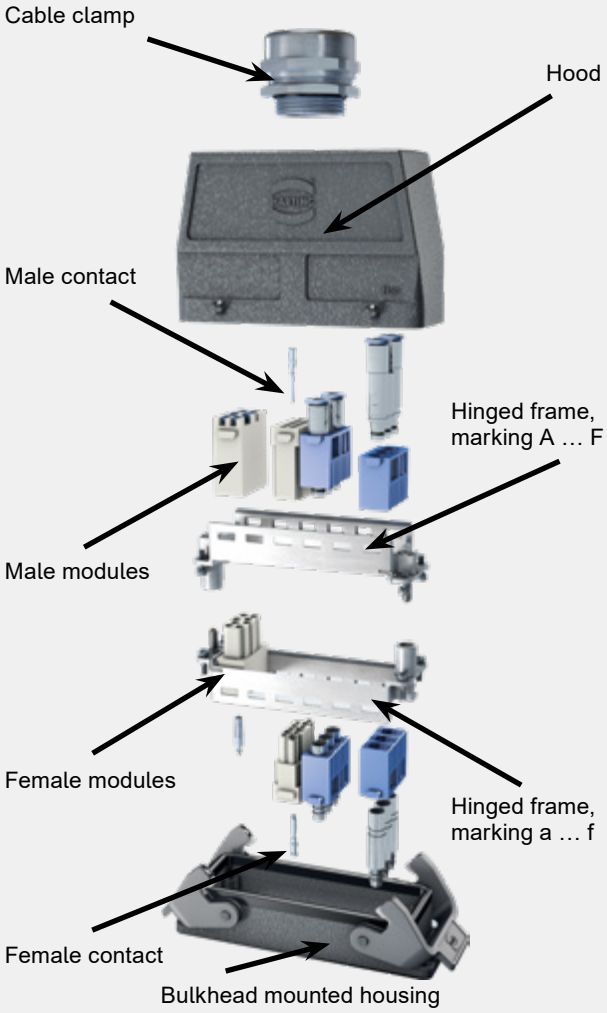
## Technical characteristics

Specifications and approvals
- DIN EN 61 984 / DIN EN 60 664-1
- UL File No. E235076 / E318390
- DNV GL Certificate No. TAE00003MY / TAA00002EU

| | |
|---|---|
| PE system (hinged frame) | 2 leading PE contacts |
| - Signal side | 0.5 … 2.5 mm² |
| - Power side | 4 … 10 mm² (10 mm² with crimp tool 09 99 000 0374) |
| Limiting temperatures* | - 40 °C … + 125 °C |
| Flammability acc. to UL 94 | V0 |
| Working life | |
| - Standard version | > 500 mating cycles |
| - HMC version | > 10.000 mating cycles |
| Material | |
| - Hinged frames | zinc die cast |
| - Modules | polycarbonate |
| - Contacts | copper alloy |

* Some modules have a lower limiting temperature (i.e. pneumatic, optical as well as data transmission modules)

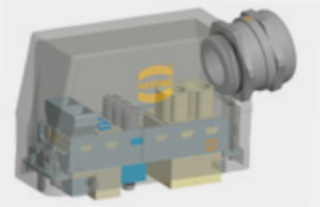
## System description




## Configuration of the Han-Modular® connectors

Use the Han® Online Configurator and quickly and easily assemble your Han-Modular® interface and benefit from the advantages.

- Ensure the compatibility of the components with each other
- Selection always in view through interactive 3D visualization
- Documentation via download package for the complete interface
- Working in a team using the save, load and share function

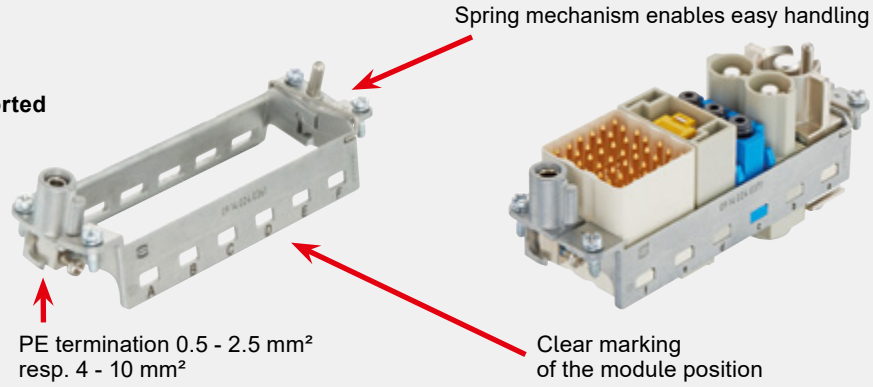


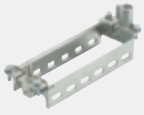
*You can find the Han® configurator at:* **www.harting.com/configurator**

## Hinged Frames Plus – the market standard

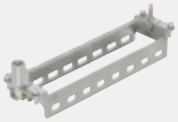
Hinged Frames Plus

- **Suitable for more than 100 different modules**
- **Quick and easy assembly supported by an audible “Click”**
- **Very high mechanical stability**
- **No tools for insertion and removal**
- **2 leading PE contacts**

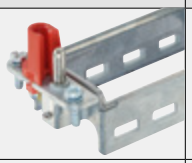
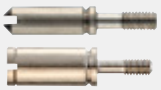



| Size | Hinged frames 6 B | Hinged frames 10 B | Hinged frames 16 B | Hinged frames 24 B |
|---|---|---|---|---|
| |  |  |  |  |
| Number of modules | for 2 modules | for 3 modules | for 4 modules | for 6 modules |
| Hinged frames (A … F)<br>Hinged frames (a … f) | 09 14 006 0361<br>09 14 006 0371 | 09 14 010 0361<br>09 14 010 0371 | 09 14 016 0361<br>09 14 016 0371 | 09 14 024 0361<br>09 14 024 0371 |
| HMC Hinged frames (A … F)<br>HMC Hinged frames (a … f) | 09 14 206 0303<br>09 14 206 0313 | 09 14 210 0303<br>09 14 210 0313 | 09 14 216 0303<br>09 14 216 0313 | 09 14 224 0303<br>09 14 224 0313 |

Frames

| Size | Hinged frames L32 B | Han® 10 A frame | | |
|---|---|---|---|---|
| |  |  | | |
| Number of modules | for 8 modules | for 1 modules | | |
| Hinged frames (A … F)<br>Hinged frames (a … f) | 09 14 032 0361<br>09 14 032 0371 | 09 14 003 0304 | | |

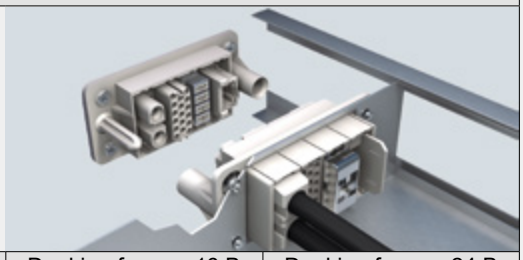
Accessories

| Size | Han-Modular® Guard for hinged frames plus | Coding element Han® 6 B - 24 B | Guide pins / bushes Han® 6 B - 24 B | |
|---|---|---|---|---|
|  |  |  |  | |
| Note | Guiding, colour coding, protection | 6 codings | 16 codings | |
| Part number | 09 14 000 999x | 09 14 000 9901 | Male: 09 14 000 9908<br>Female: 09 14 000 9909 | |

* for pneumatic, optical as well as small contacts (≤ 5 A) guide pins and bushes are recommended

## Docking frame

- Docking connector for drawer systems
- Robust, leading guide pins and bushes
- Cost saving polycarbonate frames
- Compatible with HMC up to 10.000 mating cycles
- Large tolerance compensation of ± 2 mm play (float mount with M4 adapter plate 09 14 000 9936)
- Removal of the modules with tool 09 99 000 0331



### Docking frame

| Size | Docking frames 6 B | Docking frames 10 B | Docking frames 16 B | Docking frames 24 B |
|---|---|---|---|---|
| |  |  |  |  |
| Number of modules | for 2 modules | for 3 modules | for 4 modules | for 6 modules |
| Dimensions | 65.8 x 33 mm | 79.3 x 45 mm | 94 x 45 mm | 123.4 x 45 mm |
| Float mounting (A … F) | 09 14 006 1701 | 09 14 010 1701 | 09 14 016 1701 | 09 14 024 1701 |
| Fix mounting (a … f) | 09 14 006 1711 | 09 14 010 1711 | 09 14 016 1711 | 09 14 024 1711 |
| Cover | | 09 14 010 5701 | 09 14 016 5701 | 09 14 024 5701 |

### Docking frame IP 67

| Size | Docking frames 6 B | Docking frames 10 B | Docking frames 16 B | Docking frames 24 B |
|---|---|---|---|---|
| |  |  |  |  |
| Number of modules | for 2 modules | for 3 modules | for 4 modules | for 6 modules |
| Dimensions | 63.8 x 33 mm | 79.3 x 45 mm | 94 x 45 mm | 123.4 x 45 mm |
| Float mounting (A … F) | 09 30 006 1711 | 09 30 010 1711 | 09 30 016 1711 | 09 30 024 1711 |
| Fix mounting (a … f) | 09 30 006 1710 | 09 30 010 1710 | 09 30 016 1710 | 09 30 024 1710 |

### Docking frame ≥ 10.000

| Size | Docking frames 6 B | Docking frames 10 B | Docking frames 16 B | Docking frames 24 B |
|---|---|---|---|---|
| |  |  |  |  |
| Number of modules | for 2 modules | for 3 modules | for 4 modules | for 6 modules |
| Dimensions | 86 x 55 mm | 99 x 55 mm | 119.5 x 55 mm | 146 x 55 mm |
| Float mounting | 09 30 006 1704 | 09 30 010 1704 | 09 30 016 1704 | 09 30 024 1704 |

# Han-Modular® and Han® Hoods/Housings

| | | Han-Modular® Compact | Han-Modular® Twin | Han-Modular® Eco | Han-Modular® Eco |
|---|---|---|---|---|---|
| Han-Modular® Hoods/Housings | Hoods/Housings type<br>Number of modules<br>PE termination | Metal hoods/housings IP65<br>1 module<br>0.5 … 10 mm² | Metal hoods/housings IP65<br>2 modules<br>0.5 … 10 mm² | Plastic hoods/housings IP65<br>1 module<br>without PE | Plastic hoods/housings IP65<br>1 module<br>Pin 1 = PE |
| | |  |  |  |  |
| | Hoods<br>- Carrier hoods<br>- Hood side entry M25<br>- Hood top entry M25<br>- Hood top entry M32<br>- Cover | <br>09 14 001 0311<br>19 14 001 0501<br>19 14 001 0401<br>19 14 001 0402<br>09 14 001 5402 | <br>09 14 002 0311<br>19 14 002 0501<br>19 14 002 0401<br>19 14 002 0402 | 09 14 001 0420 | 09 14 001 0421 |
| | Housings<br>- Bulkhead-mounted housing<br>- Cable to cable housing<br>- Cover | <br>09 14 001 0301<br>09 14 001 0301 + Hood<br>09 14 001 5401 | <br>09 14 002 0301<br>09 14 002 0301 + Hood<br>09 14 002 5401 | <br>09 14 001 0320<br>09 14 001 0720 | <br>09 14 001 0321<br>09 14 001 0721 |
| | Coding elements | 09 14 000 997x | | 09 14 000 9929 | 09 14 000 9929 |

# Han® Size 4 B

| | Size | Han® 4 B | Han® HPR 4 B | Han® HPR 4 B | Han-Eco® Modular |
|---|---|---|---|---|---|
| Frames | Hoods/Housings type<br>Locking element<br>Number of modules<br>PE termination | Metall IP 65<br>Han-Easy Lock®<br>2 moduls<br>0.5 ... 6 mm² | Metall IP 68<br>Screw locking<br>2 moduls<br>0.5 ... 6 mm² | Metall IP 68<br>Zentral lever<br>2 moduls<br>0.5 ... 6 mm² | Plastic IP 65<br>Plastic levers<br>2 moduls<br>without PE<br><br>No mounting frame required |
| | |  |  |  | |
| | Male | 09 14 004 0301 | 09 14 004 0301 | 09 14 004 0301 | 09 14 004 0301 |
| | Female | 09 14 004 0311 | 09 14 004 0311 | 09 14 004 0311 | 09 14 004 0311 |
| Hoods | |  |  |  |  |
| | M20 | 19 20 004 1440 | 19 40 004 0410 | 19 40 004 0480 | 19 41 104 0445 |
| | M25 | 19 20 004 1441 | 19 40 004 0411 | 19 40 004 0481 | 19 41 104 0446 |
| | M32 | 19 20 004 1442 | 19 40 004 0412 | 19 40 004 0482 | 19 41 104 0447 |
| | Cover | 09 20 004 5421 | 09 40 004 5412 | 09 40 004 5484 | 19 41 004 5406 |
| Bulkhead mounted housing | |  |  |  |  |
| | | 09 20 004 0301 | 09 40 004 0311 | 09 40 004 0381 | 19 41 004 0301 |
| | Cover | 09 20 004 5432 | 09 40 004 5411 | 09 40 004 5481 | 19 41 004 5405 |

For more details and part numbers refer to the HARTING eCatalogue https://www.harting.com

# Han® Hoods

## Han-Modular® Hoods/Housings

| | Han-Eco® Modular | Han-*Yellock*® | Han-Modular® Flexbox | |
|---|---|---|---|---|
| Hoods/Housings type<br>Locking element<br>Field of application<br>Number of modules | Plastic hoods/housings IP65<br>Plastic levers<br>Industrial applications<br>3, 4, 5, 7 modules | Metal hoods/housings IP65<br>Press-button<br>Industrial applications<br>2, 4 modules | Plastic hoods/housings IP54<br>screw locking<br>e.g. energy chain<br>up to 4 x 4 modules | |
| |  |  |  | |
| Part numbers | 19 41 … | 11 … | 09 14 000 8... | |

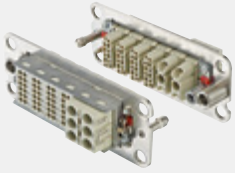
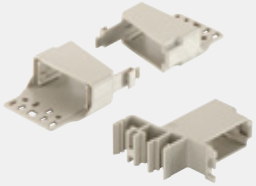
## Hoods/housings for hinged frame

| | Han® B | Han® EMC | Han® M | Han® HPR |
|---|---|---|---|---|
| | Metal hoods/housings IP65<br>Han-Easy Lock®<br>Industrial applications | Metal hoods/housings IP65<br>Han-Easy Lock®<br>shielded connections | Metal hoods/housings IP65<br>Stainless steel levers<br>Outdoor applications | Metal hoods/housings IP68<br>Screw locking<br>Rail technology |
| Sizes:<br>- Han® 6 B for 2 modules<br>- Han® 10 B for 3 modules<br>- Han® 16 B for 4 modules<br>- Han® 24 B for 6 modules<br>- Han® L32 B for 8 modules |  |  |  |  |
| Part numbers | 09 30 … / 19 30 … | 09 62 … / 19 62 … | 09 37… / 19 37… | 09 40 … / 19 40 … |

## Installation without housing

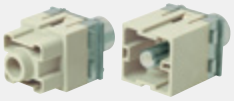
| | Han® HMC | Han-INOX® | Han-Eco® B | Han® HPR Compact |
|---|---|---|---|---|
| Hoods/Housings type<br>Locking element<br>Field of application<br><br>Sizes:<br>- Han® 6 B for 2 modules<br>- Han® 10 B for 3 modules<br>- Han® 16 B for 4 modules<br>- Han® 24 B for 6 modules | Metal hoods/housings IP65<br>Han-Easy Lock®<br>up to 10.000 mating cycles | Stainless steel<br>Stainless steellocking | Plastic hood/housings<br>Plastic levers<br>Industrial applications | Metal hood IP 68<br>screw locking<br>Railway |
| |  |  |  |  |
| Part numbers | 09 30 2 … / 19 30 2 … | 19 44… | 19 43 ... | 09 40 ... / 19 40 |

## Hoods/housings for hinged frame

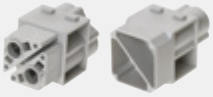
| | Grip panel | Docking frame | Han-Snap® | Module clamp |
|---|---|---|---|---|
| Hoods/Housings type<br>Locking element<br>Field of application<br>Number of modules<br><br>Sizes:<br>- Han® 6 B for 2 modules<br>- Han® 10 B for 3 modules<br>- Han® 16 B for 4 modules<br>- Han® 24 B for 6 modules | Metal mounting frame IP20<br>Screw locking<br>within switch cabinet<br>2, 3, 4, 6 modules | Metal frame IP20<br>without locking<br>for drawer systems<br>2, 3, 4, 6 modules | Plastic adapter IP20<br>Snap locking<br>within switch cabinet | Plastic mounting frame IP20<br>Snap locking<br>within switch cabinet<br>1 module |
| |  |  |  |  |
| Part numbers | 09 00 0xx 56 … | 09 30 0xx 1704 | 09 33 ... | 09 14 000 0312 |
| | | | | 09 14 000 0313 |

For more details and part numbers refer to the HARTING eCatalogue https://www.harting.com

# Power Module 70 - 400 A

| | | | | | | |
|---|---|---|---|---|---|---|
| PE | | Han® 300 A PE module | Han® 200 A PE module | Han® PE module | Han® PE module | Han® PE module |
| | |  |  |  |  |  |
| | | 1 x PE*<br>300 A<br>Axial screw termination<br>95 … 120 mm² | 1 x PE*<br>200 A<br>Axial screw termination<br>40 … 70 mm² | 1 x PE<br>100 A<br>Axial screw termination<br>16 ... 35 mm² | 1 x PE*<br>300 A<br>Crimp termination,Han®HC<br>35 mm² | 1 x PE*<br>200 A<br>Crimp termination,Han®HC<br>16 mm² |
| | (M) | 09 14 001 2681 | 09 14 001 2667 | 09 14 001 2633 | 09 14 001 3074 | 09 14 001 3072 |
| | (F) | 09 14 001 2781 | 09 14 001 2767 | 09 14 001 2733 | 09 14 001 3174 | 09 14 001 3172 |
| | | | 25 … 40 mm² | 10 ... 25 mm² | 25 mm² | 10 mm² |
| | (M) | | 09 14 001 2668 | 09 14 001 2632 | 09 14 001 3073 | 09 14 001 3071 |
| | (F) | | 09 14 001 2768 | 09 14 001 2732 | 09 14 001 3173 | 09 14 001 3171 |

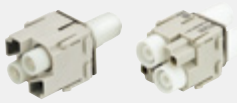
| | | | | | | |
|---|---|---|---|---|---|---|
| 200 - 400 A | | Han® 400 A module | Han® 300 A module | Han® 200 A module | Han® 200 A module | Han® 200 A module |
| | |  |  |  |  |  |
| | | 1 x PE*<br>400 A<br>Crimp termination<br>95 … 185 mm² | 1 contact*<br>300 A / 1000 V<br>Crimp termination,Han®HC<br>95 … 120 mm² | 1 contact*<br>200 A / 1000 V<br>Crimp termination,Han®HC<br>25 … 70 mm² | 1 contact*<br>200 A / 1000 V<br>Axial termination<br>40 … 70 mm² | 1 contact*<br>200 A / 1000 V<br>Axial termination<br>25 … 40 mm² |
| | (M) | 97 00 000 3455 | 09 14 001 3004 | 09 14 001 3003 | 09 14 001 2662 | 09 14 001 2663 |
| | (F) | 97 00 000 3453 | 09 14 001 3104 | 09 14 001 3103 | 09 14 001 2762 | 09 14 001 2763 |

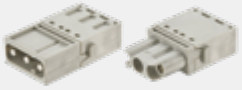
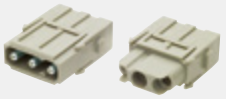
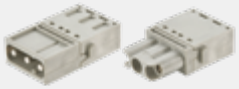
| | | | | | | |
|---|---|---|---|---|---|---|
| 100 A | | Han® 100 Axial module | Han® 100 Axial module | Han® 100 Crimp module | Han® 100 Single module | Han® 100 Single module protected |
| | |  |  |  |  |  |
| | | 2 contacts*<br>100 A / 1000 V<br>Axial screw termination<br>16 ... 35 mm² | 2 contacts*<br>100 A / 1000 V<br>Axial screw termination<br>10 ... 25 mm² | 2 contacts*<br>100 A / 1000 V<br>Crimp termination,Han®HC<br>10 ... 35 mm² | 1 contacts<br>100 A / 830 V<br>Crimp termination,Han®HC<br>10 ... 35 mm² | 1 contacts, protected<br>100 A / 830 V<br>Crimp termination,Han®HC<br>10 ... 35 mm² |
| | (M) | 09 14 002 2651 | 09 14 002 2653 | 09 14 002 3051 | 09 14 001 3031 | 09 14 001 3035 |
| | (F) | 09 14 002 2451 | 09 14 002 2753 | 09 14 002 3151 | 09 14 001 3131 | 09 14 001 3131 |

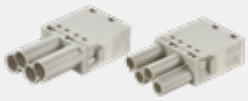
| | | | | | | |
|---|---|---|---|---|---|---|
| 70 A | | Han® 70 Axial module | Han® 70 Axial module | Han® 70 A Crimp module | Han® 70 A Crimp module | |
| | |  |  |  |  | |
| | | 2 contacts<br>70 A / 1000 V<br>Axial screw termination<br>14 ... 22 mm² | 2 contacts<br>70 A / 1000 V<br>Axial screw termination<br>6 ... 16 mm² | 2 contacts<br>70 A / 1000 V<br>Crimp termination, Han® HC<br>6 ... 25 mm² | 2 contacts<br>70 A / 1500 V<br>Crimp termination, Han® HC<br>10 ... 25 mm² | |
| | (M) | 09 14 002 2647 | 09 14 002 2646 | 09 14 002 3041 | 09 14 002 3042 | |
| | (F) | 09 14 002 2742 | 09 14 002 2741 | 09 14 002 3141 | 09 14 002 3142 | |

(M) = Part numbers Male Module (F) = Part numbers Female Module * Double module, requires two places in the frame

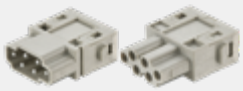
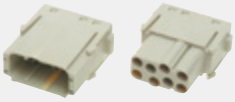
# Power Module 40 A

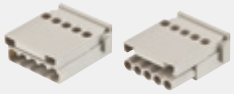
| | | Han® 40 Crimp module | Han® 40 Axial module | Han® 40 Axial module | | Han® HV module 40 A |
|---|---|---|---|---|---|---|
| 40 A | |  |  |  | |  |
| | | 2 contacts<br>40 A / 1000 V<br>Crimp termination, Han® C<br>1.5 ... 10 mm² | 2 contacts<br>40 A / 1000 V<br>Axial termination<br>6 ... 10 mm² | 2 contact<br>40 A / 1000 V<br>Axial termination<br>2.5 … 8 mm² | | 2 contacts*<br>40 A /2900 /500 V<br>Crimp termination,Han® C<br>1.5 ... 10 mm² |
| | (M) | 09 14 002 3002 | 09 14 002 2602 | 09 14 002 2601 | | 09 14 002 3023 |
| | (F) | 09 14 002 3102 | 09 14 002 2702 | 09 14 002 2701 | | 09 14 002 3123 |

| | | Han® C module | Han® C Axial module | Han® C Axial module | Han® C Push-In module | |
|---|---|---|---|---|---|---|
| 40 A | |  |  |  |  | |
| | | 3 contacts<br>40 A / 500 V<br>Crimp termination,Han® C<br>1.5 ... 6 mm² | 3 contacts<br>40 A / 690 V<br>Axial termination<br>6 ... 10 mm² | 3 contacts<br>40 A / 690 V<br>Axial termination<br>2.5 ... 8 mm² | 3 contacts<br>40 A / 690 V<br>Push-In termination<br>0.5 ... 6 mm² | |
| | (M) | 09 14 003 3001 | 09 14 003 2602 | 09 14 003 2601 | 09 14 003 5001 | |
| | (F) | 09 14 003 3101 | 09 14 003 2702 | 09 14 003 2701 | 09 14 003 5101 | |

| | | Han® CC module | Han® CC Push-In module | Han® CD module | | |
|---|---|---|---|---|---|---|
| 40 A | |  |  |  | | |
| | | 4 contacts<br>40 A / 830 V<br>Crimp termination,Han® C<br>1.5 ... 6 mm² | 4 contacts<br>40 A / 690 V<br>Push-In termination<br>1.5 ... 6 mm² | 3 + 4 contacts<br>40 A + 10 A / 830 V<br>Crimp termination, Han® C+D<br>0.14 ... 6 mm² | | |
| | (M) | 09 14 004 3041 | 09 14 004 5001 | 09 14 007 3001 | | |
| | (F) | 09 14 004 3141 | 09 14 004 5101 | 09 14 007 3101 | | |

# Power Module 16 A

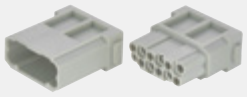
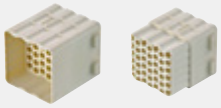
| | | Han E® Push-In module | Han E® Crimp module | Han E® Protected module | Han EE® Push-In module | Han EE® Crimp module |
|---|---|---|---|---|---|---|
| 16 A | |  |  |  |  |  |
| | | 6 contacts<br>16 A / 500 V<br>Push-In termination<br>0.5 ... 2.5 mm² | 6 contacts<br>16 A / 500 V<br>Crimp termination,Han E®<br>0.14 ... 4 mm² | 6 contacts<br>16 A / 830 V<br>Crimp termination,Han E®<br>0.14 ... 4 mm² | 8 contacts<br>16 A / 400 V<br>Push-In termination<br>0.5 ... 2.5 mm² | 8 contacts<br>16 A / 400 V<br>Crimp termination,Han E®<br>0.14 ... 4 mm² |
| | (M) | 09 14 006 5001 | 09 14 006 3001 | 09 14 006 3041 | 09 14 008 5001 | 09 14 008 3001 |
| | (F) | 09 14 006 5101 | 09 14 006 3101 | 09 14 006 3141 | 09 14 008 5101 | 09 14 008 3101 |

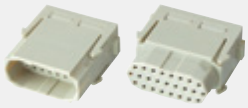
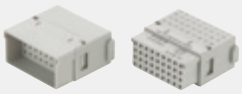
| | | Han® EEE module | Han® ES module | Han E® Screw module | Han® HV module | Han® HV single module |
|---|---|---|---|---|---|---|
| 16 A | |  |  |  |  |  |
| | | 20 contacts<br>16 A / 500 V<br>Crimp termination, Han E®<br>0.14 … 4 mm² | 5 contacts<br>16 A / 400 V<br>Cage clamp termination<br>0.14 ... 2.5 mm² | 5 contacts<br>16 A / 230 / 400 V<br>Screw termination<br>0.5 ... 2.5 mm² | 2 contacts<br>16 A / 5000 V<br>Crimp termination,Han E®<br>0.14 ... 4 mm² | 2 contacts<br>16 A / 2500 V<br>Crimp termination,Han E®<br>0.14 ... 4 mm² |
| | (M) | 09 14 020 3001 | 09 14 005 2616 | 09 14 005 2601 | 09 14 002 3021 | 09 14 002 3025 |
| | (F) | 09 14 020 3101 | 09 14 005 2716 | 09 14 005 2701 | 09 14 002 3121 | 09 14 002 3125 |

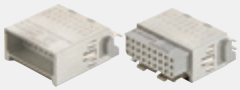
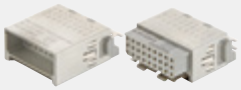
## Power Module 16 A

| | | Han® Shielded Power module | | | | |
|---|---|---|---|---|---|---|
| 16 A | | <br>4 + 2 + shielding<br>16 A + 10 A / 400 V<br>Crimp, Han E® + Han D® | | | | |
| | | 0.14 … 4 mm² | | | | |
| | (M) | 09 14 006 3021 | | | | |
| | (F) | 09 14 006 3121 | | | | |

## Signal Modules up to 10 A

| | | Han DD® Push-In module | Han DD® module | Han® DDD module | Han DD® double module | Han DD® Quad module |
|---|---|---|---|---|---|---|
| 10 A | | <br>12 contacts<br>10 A / 250 V<br>Push-In termination<br>0.14 ... 1.5 mm² | <br>12 contacts<br>10 A / 250 V<br>Crimp termination, Han D®<br>0.14 ... 2.5 mm² | <br>17 contact<br>10 A / 160 V<br>Crimp termination, Han D®<br>0.14 ... 2.5 mm² | <br>36 contacts*<br>10 A / 400 V<br>Crimp termination, Han D®<br>0.14 ... 2.5 mm² | <br>42 contacts*<br>10 A / 150 V<br>Crimp termination, Han D®<br>0.14 ... 2.5 mm² |
| | (M) | 09 14 012 5001 | 09 14 012 3002 | 09 14 017 3001 | 09 14 036 3002 | 09 14 042 3001 |
| | (F) | 09 14 012 5101 | 09 14 012 3102 | 09 14 017 3101 | 09 14 036 3102 | 09 14 042 3101 |

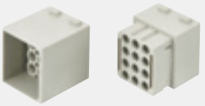
| | | Han® High Density module | Han® Full High Density module | | | |
|---|---|---|---|---|---|---|
| 4 A | | <br>25 contacts<br>4 A / 50 V<br>Crimp termination, D-Sub<br>0.08 ... 0.52 mm² | <br>36 contacts<br>4 A / 32 V<br>Crimp termination, D-Sub<br>0.08 ... 0.52 mm² | | | |
| | (M) | 09 14 025 3001 | 09 14 036 3001 | | | |
| | (F) | 09 14 025 3101 | 09 14 036 3101 | | | |

| | | Han ® D-Sub module | Han ® Shielded module basic+ | Han ® Shielded module basic+ | | |
|---|---|---|---|---|---|---|
| Shielded modules | | <br>9 contacts + shielding<br>5 A / 50 V<br>Crimp termination, D-Sub<br>0.08 ... 0.52 mm² | <br>27 contacts + 180° shielding<br>4 A / 32 V<br>Crimp termination, D-Sub<br>0.09 ... 0.5 mm² | <br>27 contacts + 360° shielding<br>4 A / 32 V<br>Crimp termination, D-Sub<br>0.09 ... 0.5 mm² | | |
| | (M) | 09 14 009 3001 | 09 14 027 3021 | 09 14 027 3022 | | |
| | (F) | 09 14 009 3101 | 09 14 027 3121 | 09 14 027 3122 | | |

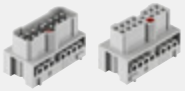
## Further Modules

| | | Han ® Dummy module | Han® Guiding Dummy module | Han® Guiding Relay module | | |
|---|---|---|---|---|---|---|
| Accessory modules | | <br>To fill-up emty module places | <br>To fill-up empty module places, additional guiding function | <br>2 contacts with relay function (last mate - first break)<br>Crimp termination, Han E®<br>Relay contacts necessary | | |
| | (M) | 09 14 000 9950 | 09 14 003 3050 | 09 14 003 3051 | | |
| | (F) | | 09 14 003 3150 | 09 14 003 3151 | | |

# Further Modules

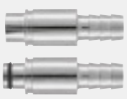
| Coaxial and Optical modules | | Han® LC | Han® SC module | Han® Multi module (D-Sub) | Han® Multi module (DIN) | Han® Multi doublemodule* |
|---|---|---|---|---|---|---|
| | |  |  |  |  |  |
| | | 6 FO contacts (LC)<br>single-mode<br>multi-mode | 4 FO contacts (LC)<br>1 mm POF<br>single-mode<br>multi-mode | 4 Coax contacts<br>50 + 75 Ω<br>(RG58, RG179, RG187,<br>RG174, RG188,RG316) | 4 Coax / FO contacts<br>Coaxial 50 + 75 Ω<br>1 mm POF<br>multi-mode | 4 Coax / FO contacts<br>Coaxial 50 + 75 Ω<br>1 mm POF<br>multi-mode |
| | (M) | 09 14 006 4701 | 09 14 004 4701 | 09 14 004 4501 | 09 14 004 4501 | 09 14 012 4501 |
| | (F) | 09 14 006 4711 | 09 14 004 4711 | 09 14 004 4514 | 09 14 004 4512 | 09 14 012 4512 |

| Han-Smart | | Ethernet-Switch module* | ID CAN module | ID Profinet module | Surge protection module | |
|---|---|---|---|---|---|---|
| | |  |  |  |  | |
| | | 4 Ports (RJ45)<br>Full Gigabit Ethernet | 10 MB Flash<br>Module for identifying<br>industrial components<br>CANopen Communication | 32 KB Flash<br>Module for identifying<br>industrial components | 0.5 A / 24 V DC<br>Surge protection for four<br>individual wires | |
| | (M) | (RJ male module) | 09 80 015 0100 | 09 80 615 0100 | 09 80 000 0101 | |
| | (F) | 09 80 113 0400 | 09 80 115 0200 | 09 80 615 0200 | 09 80 003 0201 | |

| Han-Eco® module | | Han-Eco® PE module | Han® Guiding PE module | Han-Eco® Monoblock | | |
|---|---|---|---|---|---|---|
| | | | only for Han-Eco® hoods | only for Han-Eco® hoods | | |
| | |  |  |  | | |
| | | PE contac<br>only for Han-Eco® Hoods<br>1.5 ... 16 mm²<br>Screw termination | 2 Contacts + PE<br>16 A/ 400 V<br>0.14 ... 4 mm²<br>Crimp termination, Han E® | 10, 14, 20, 28 + PE<br>16 A / 500 V<br>0,5 ... 2.5 mm²<br>Screw termination | | |
| | (M) | 19 41 001 2600 | 09 14 003 3052 | 19 41 0xx 2601 | | |
| | (F) | 19 41 001 2700 | 09 14 003 3152 | 19 41 0xx 2701 | | |

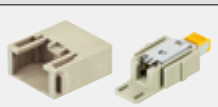
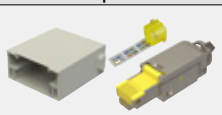
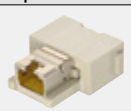
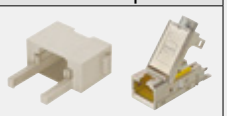
# Pneumatic Modules

| 3 - 6 mm Tubes | | Pneumatic module | Contacts ( ≤ 10 bar) | | | Module / 3 contacs |
|---|---|---|---|---|---|---|
| | |  |  |  |  |  |
| | | For tube diameter Ø | 6 mm OD | 4 mm OD | 3 mm OD | Male module (M)<br>09 14 003 3501 |
| | | Male contact | 09 14 000 6356 | 09 14 000 6354 | 09 14 000 6353 | |
| | | Female without shut-off | 09 14 000 6456 | 09 14 000 6454 | 09 14 000 6453 | Female module (M)<br>09 14 003 3501 |
| | | Pneumatic double module | 09 14 000 6466 | 09 14 000 6464 | 09 14 000 6463 | |

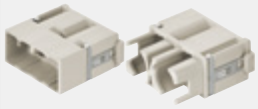
| 8 + 10 mm Tubes | | Pneumatic Double module | Contacts ( ≤ 10 bar) | | | Module / 2* contacts |
|---|---|---|---|---|---|---|
| | |  |  |  |  |  |
| | | For tube diameter Ø | 8 mm OD | 10 mm OD | 10 mm ID | Male module (M)<br>09 14 002 3501 |
| | | Male contact | 09 14 000 6358 | 09 14 000 6350 | 09 14 000 6310 | |
| | | Female without shut-off | 09 14 000 6458 | 09 14 000 6450 | 09 14 000 6410 | Female module (F)<br>09 14 002 3502 |
| | | Pneumatic double module | 09 14 000 6468 | 09 14 000 6460 | 09 14 000 6411 | |

(M) = Part numbers male module (F) = Part numbers female module * Double module, requires two places in the frame

## Han® RJ45 modules

| Han® RJ45 module | for patch cable | for IDC | RJ45 preLink | for patch cable | for IDC and preLink |
|---|---|---|---|---|---|
| - 8 contacts<br>- cat. $6_A$<br>- 10 Gbit/s |  |  |  |  |  |
| Part numbers | Male module (M)<br>09 14 001 4623 | Male module (M)<br>09 14 001 4623 | Male module (M)<br>97 00 000 6486 | Female module (F)<br>09 14 001 4721 | Female module (F)<br>09 14 001 4722 |
| | Adapter for patch cable:<br>09 14 000 9966 | RJ Industrial IDC:<br>09 45 400 1560 | RJ45 insert preLink<br>97 00 000 6490 | | RJ45 female IDC:<br>09 14 545 1561 |
| | Patch cable cat. 6:<br>09 47 474 71xx | | | | RJ45 female preLink:<br>09 14 008 4720 |

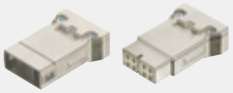
## Han® M12 modules

| | Han® M12 module | Han® M12 GND module | Han® M12 inserts (cable Ø 5.5 … 8.7 mm) | | |
|---|---|---|---|---|---|
| | | | M12 insert X-Coded | M12 insert D-Coded | M12 insert A-Coded |
| |  |  |  |  |  |
| | Module for two Han® M12 inserts | Version with additial shielding termination to the hinged frame | 10 Gbit/s (cat. $6_A$)<br>8 contacts + shielding<br>0.5 A / 32 V<br>0.08 … 0.25 mm²<br>Crimp termination, *har*-speed | 100 Mbit/s (cat. 5e)<br>4 contacts + shielding<br>4 A / 32 V<br>0.13 … 0.82 mm²<br>Crimp termination, D-Sub | 8 contacts + shielding<br>2 A / 30 V<br>0.13 … 0.33 mm²<br>Crimp termination, M12 |
| (M) | 09 14 002 3061 | 09 14 002 3062 | 09 14 881 1805 | 09 14 881 1405 | 09 14 821 1805 |
| (F) | 09 14 002 3161 | 09 14 002 3162 | 09 14 881 2805 | 09 14 881 2405 | 09 14 821 2805 |

## Han-Quintax® modules

| | Han-Quintax® module | Han-Quintax® inserts (cable Ø 3 … 9.5 mm) | | | |
|---|---|---|---|---|---|
| | | Han-Quintax® insert | Han® High Density Quintax | Han D® Coax insert | Han E® Coax insert |
| |  |  |  |  |  |
| | Module for two Han-Quintax® inserts | 100 Mbit/s (cat. 5e)<br>4 contacts + shielding<br>10 A / 50 V<br>0.14 … 2.5 mm²<br>Crimp termination, Han D® | 100 Mbit/s (cat. 5e)<br>8 contacts + shielding<br>5 A / 50 V<br>0.09 … 0.52 mm²<br>Crimp termination, D-Sub | ≤ 500 Mhz / 75 Ω<br>1 contact + shielding<br>10 A / 50 V<br>0.14 … 2.5 mm²<br>Crimp termination, Han D® | ≤ 500 Mhz / 50 Ω<br>1 contact + shielding<br>16 A / 50 V<br>0.14 … 4 mm²<br>Crimp termination, Han E® |
| (M) | 09 14 002 3004 | 09 15 004 3013 | 09 15 008 3013 | 09 15 001 3013 | 09 15 001 3023 |
| (F) | 09 14 002 3104 | 09 15 004 3113 | 09 15 008 3113 | 09 15 001 3113 | 09 15 001 3123 |
| | *Optional shield connection to the hinged frame with the Han-Quintax metal adapter 09 14 000 9915* | | | | |

## Han® Gigabit & Han® Megabit modules

| | Adapter module | Han® Gigabit / Han® Megabit inserts (cable Ø ≤ 14 mm) | | | |
|---|---|---|---|---|---|
| | | Han® Gigabit insert | Han® Gigabit cat. 8 insert | Han® Megabit insert | Han® Megabit insert |
| |  |  |  | 2 cable entries Ø 10 mm<br> | 1 cable entry<br> |
| | Module for one<br>- Han Gigabit insert<br>- Han Megabit insert<br>- Han Shielded insert | 10 Gbit/s (cat. $6_A$)<br>8 contacts + shielding<br>5 A / 60 V DC<br>0.09 … 0.52 mm²<br>Crimp termination, D-Sub | 40 Gbit/s (cat. 8.2)<br>8 contacts + shielding<br>5 A / 60 V DC<br>0.09 … 0.52 mm²<br>Crimp termination, D-Sub | 2 x 100 Mbit/s (cat. 5e)<br>2 x 4 contacts + shielding<br>10 A / 50 V<br>0.14 … 2.5 mm²<br>Crimp termination, Han D® | 1 Gbit/s (cat. 5e)<br>2 x 4 contacts + shielding<br>10 A / 50 V<br>0.14 … 2.5 mm²<br>Crimp termination, Han D® |
| (M) | 09 14 001 3011 | 09 14 008 3011 | 09 14 008 3034 | 09 14 008 3016 | 09 14 008 3021 |
| (F) | 09 14 001 3111 | 09 14 008 3111 | 09 14 008 3134 | 09 14 008 3116 | 09 14 008 3121 |
| (M) | With shield connection to the hinged frame | 09 14 008 3012 | 09 14 008 3035 | 09 14 008 3017 | 09 14 008 3022 |
| (F) | | 09 14 008 3112 | 09 14 008 3135 | 09 14 008 3117 | 09 14 008 3122 |

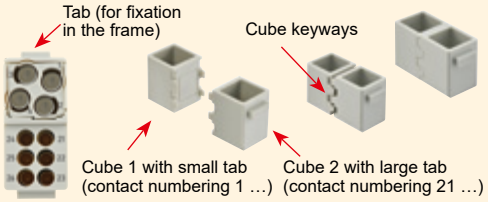
## Shielded modules

| | Han® Shielded insert | Han® USB module | Han® Fire Wire module | | |
|---|---|---|---|---|---|
| |  |  |  | | |
| | 20 contacts + shielding<br>4 A / 32 V<br>0.09 … 0.52 mm²<br>Crimp termination, D-Sub | 8 contacts + shielding<br>1 A / 50 V<br>(USB 3.0)<br>for USB Patchkabel | 6 contacts + shielding<br>1 A / 50 V<br>400 Mbit/s (IEEE 1394a)<br>for USB Patchkabel | | |
| (M) | 09 14 020 3013 | 09 14 001 4601 | 09 14 001 4711 | | |
| (F) | 09 14 020 3113 | 09 14 001 4703 | 09 14 001 4703 | | |

(M) = Part numbers male module (F) = Part numbers female module * Double module, requires two places in the frame

# Han-Modular® Domino Module

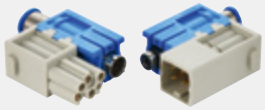
Just as dominoes have two separate squares, a domino module is made up of two building blocks or cubes.The cubes can be flexibly joined to form modules as required. A Han-Modular® Domino module therefore enables the transmission of power, signals, data or compressed air, as male and female contacts can be combined in one domino module. **Each domino module consists of a cube with a small tab and a cube with a large tab.**



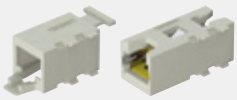

## Domino Power module

| | | Han® CC Push-In cube | Han® CC cube | Han EE® Push-In cube | Han EE® cube |
|---|---|---|---|---|---|
| | |  |  | 2 contacts<br>40 A / 500 V<br>1.5 ... 6 mm²<br>Push-In termination | 2 contacts<br>40 A / 500 V<br>1.5 ... 6 mm²<br>Crimp termination | 4 contacts<br>16 A / 400 V<br>0.14 ... 2.5 mm²<br>Push-In termination | 4 contacts<br>16 A / 400 V<br>0.14 ... 4 mm²<br>Crimp termination Han E® |
| Male cube | small tab | 97 00 000 3715 | 97 00 000 3705 | 97 00 000 3694 | 09 14 904 1001 |
| Male cube | large tab | 97 00 000 3716 | 97 00 000 3706 | 97 00 000 3695 | 09 14 904 2001 |
| Female cube | small tab | 97 00 000 3713 | 97 00 000 3703 | 97 00 000 3692 | 09 14 904 1101 |
| Female cube | large tab | 97 00 000 3714 | 97 00 000 3704 | 97 00 000 3693 | 09 14 904 2101 |

## Domino Signal module

| | | Han DD® cube | Han® HD cube | Multiplier cube | Multiplier dummy cube |
|---|---|---|---|---|---|
| | |  |  | 6 contacts<br>10 A / 250 V<br>0.14 ... 2.5 mm²<br>Crimp termination, Han D® | 16 contacts<br>4 A / 32 V<br>0.09 ... 0.5 mm²<br>Crimp termination D-Sub | 1 contacts<br>16 A / 400 V<br>0.14 ... 2.5 mm²<br>4 x Push-In termination | without contact<br>16 A / 400 V<br>0.14 ... 2.5 mm²<br>4 x Push-In termination |
| Male cube | small tab | 09 14 906 1001 | 09 14 916 1001 | 97 00 000 1747 | 97 00 000 0333 |
| Male cube | large tab | 09 14 906 2001 | 09 14 916 2001 | 97 00 000 1748 | 97 00 000 0335 |
| Female cube | small tab | 09 14 906 1101 | 09 14 916 1101 | 97 00 000 0338 | 97 00 000 0333 |
| Female cube | large tab | 09 14 906 2101 | 09 14 916 2101 | 97 00 000 0339 | 97 00 000 0335 |

## Data module

| | | Han ® RJ45 cube | Han® M12 cube | Han® M12 GND cube | Han® USB-C cube |
|---|---|---|---|---|---|
| | |  |  | for 1 Han® M12 insert<br>(see data transfer modules) | for 1 Han® M12 insert<br>(with shield connection to the hinged frame) | for Patch cables<br>USB 3.0 type C |
| Male cube | small tab | 09 14 945 1001 | 09 14 921 1001 | 09 14 921 1002 | 97 00 000 0139 |
| Male cube | large tab | 09 14 945 2001 | 09 14 921 2001 | 09 14 921 2002 | 97 00 000 0142 |
| Female cube | small tab | 09 14 945 1101 | 09 14 921 1101 | 09 14 921 1102 | 97 00 000 0146 |
| Female cube | large tab | 09 14 945 2101 | 09 14 921 2101 | 09 14 921 2102 | 97 00 000 0150 |

(M) = Part numbers male module (F) = Part numbers female module

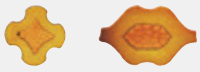
| | | | Han® Carrier cube | Han® Carrier GND cube | Domino Megabit insert | Domino Gigabit insert |
|---|---|---|---|---|---|---|
| Cubes |  | |  for Han® Domino Megabit and Gigabit insert |  (with shield connection to the hinged frame) |  4 contacts + shielding 100 Mbit/s (cat 5e) Crimp termination, Han D® |  8 contacts + shielding 10 Gbit/s (cat $6_A$) Crimp termination, har-speed |
| | Long cube | small tab | 97 00 000 0398 | 97 00 000 0418 | male insert 97 00 000 0414 | female insert 97 00 000 0410 |
| | Long cube | large tab | 97 00 000 0430 | 97 00 000 0423 | | |
| | Short cube | small tab | 97 00 000 0429 | 97 00 000 0417 | female insert 97 00 000 0413 | male insert 97 00 000 0408 |
| | Short cube | large tab | 97 00 000 0428 | 97 00 000 0416 | | |

| | | | Dummy cube | Pneumatic cube | Cable clamp | Cable clamp |
|---|---|---|---|---|---|---|
| Cubes | | |  |  1 contact ≤ 10 bar 3 + 4+6 mm |  4 - 7 mm for Han Domino Megabit / Gigabit |  7 - 10 mm for Han Domino Megabit / Gigabit |
| | Male cube | small tab | 09 14 900 1000 | 09 14 931 1001 | 97 00 000 0402 | 97 00 000 0403 |
| | Male cube | large tab | 09 14 900 2000 | 09 14 931 2001 | | |

(M) = Part numbers male module (F) = Part numbers female module

| | Cross-section / Wire gauge (mm²) | (AWG) | | | Male contact (gold plated) | Female contact (gold plated) | Male contact (HMC gold plated) | Female contact (HMC gold plated) |
|---|---|---|---|---|---|---|---|---|
| 5 A - D-Sub | | | | |  |  |  |  |
| | 0.09 - 0.25 | 28 - 24 | | | 09 67 000 7576 | 09 67 000 7476 | 09 67 000 7570 | 09 67 000 7470 |
| | 0.13 - 0.33 | 26 - 22 | | | 09 67 000 5576 | 09 67 000 5476 | 09 67 000 5570 | 09 67 000 5470 |
| | 0.25 - 0.52 | 24 - 20 | | | 09 67 000 8576 | 09 67 000 8476 | 09 67 000 8570 | 09 67 000 8470 |

| | Cross-section / Wire gauge (mm²) | (AWG) | Male contact (silver plated) | Female contact (silver plated) | Male contact (gold plated) | Female contact (gold plated) | Male contact (HMC gold plated) | Female contact (HMC gold plated) |
|---|---|---|---|---|---|---|---|---|
| 10A - Han D® | | |  |  |  |  |  |  |
| | 0.14 - 0.37 | 26 - 22 | 09 15 000 6104 | 09 15 000 6204 | 09 15 000 6124 | 09 15 000 6224 | 09 15 200 6124 | 09 15 200 6224 |
| | 0.5 | 20 | 09 15 000 6103 | 09 15 000 6203 | 09 15 000 6123 | 09 15 000 6223 | 09 15 200 6123 | 09 15 200 6223 |
| | 0.75 | 18 | 09 15 000 6105 | 09 15 000 6205 | 09 15 000 6125 | 09 15 000 6225 | 09 15 200 6125 | 09 15 200 6225 |
| | 1 | 18 | 09 15 000 6102 | 09 15 000 6202 | 09 15 000 6122 | 09 15 000 6222 | 09 15 200 6122 | 09 15 200 6222 |
| | 1.5 | 16 | 09 15 000 6101 | 09 15 000 6201 | 09 15 000 6121 | 09 15 000 6221 | 09 15 200 6121 | 09 15 200 6221 |
| | 2.5 | 14 | 09 15 000 6106 | 09 15 000 6206 | 09 15 000 6126 | 09 15 000 6226 | 09 15 200 6126 | 09 15 200 6226 |
| 16 A - Han E® | | |  |  |  |  |  |  |
| | 0.14 - 0.37 | 26 - 22 | 09 33 000 6127 | 09 33 000 6227 | 09 33 000 6117 | 09 33 000 6217 | 09 33 200 6117 | 09 33 200 6217 |
| | 0.5 | 20 | 09 33 000 6121 | 09 33 000 6220 | 09 33 000 6122 | 09 33 000 6222 | 09 33 200 6122 | 09 33 200 6222 |
| | 0.75 | 18 | 09 33 000 6114 | 09 33 000 6214 | 09 33 000 6115 | 09 33 000 6215 | 09 33 200 6115 | 09 33 200 6215 |
| | 1 | 18 | 09 33 000 6105 | 09 33 000 6205 | 09 33 000 6118 | 09 33 000 6218 | 09 33 200 6118 | 09 33 200 6218 |
| | 1.5 | 16 | 09 33 000 6104 | 09 33 000 6204 | 09 33 000 6116 | 09 33 000 6216 | 09 33 200 6116 | 09 33 200 6216 |
| | 2.5 | 14 | 09 33 000 6102 | 09 33 000 6202 | 09 33 000 6123 | 09 33 000 6223 | 09 33 200 6123 | 09 33 200 6223 |
| | 3 | 12 | 09 33 000 6106 | 09 33 000 6206 | | | | |
| | 4 | 12 | 09 33 000 6107 | 09 33 000 6207 | 09 33 000 6119 | 09 33 000 6221 | 09 33 200 6119 | 09 33 200 6221 |
| 40 A - Han® C | | |  |  | | |  |  |
| | 1.5 | 16 | 09 32 000 6104 | 09 32 000 6204 | | | 09 32 200 6114 | 09 32 200 6224 |
| | 2.5 | 14 | 09 32 000 6105 | 09 32 000 6205 | | | 09 32 200 6115 | 09 32 200 6225 |
| | 4 | 12 | 09 32 000 6107 | 09 32 000 6207 | | | 09 32 200 6119 | 09 32 200 6229 |
| | 6 | 10 | 09 32 000 6108 | 09 32 000 6208 | | | 09 32 200 6118 | 09 32 200 6228 |
| | 10 | 8 | 09 32 000 6109 | 09 32 000 6209 | | | 09 32 200 6117 | 09 32 200 6227 |

| | Acc. to IEC 60352-2 | 09 99 000 0501 | 09 99 000 0021 | 09 99 000 0110 | 09 99 000 0377 | 09 99 000 0888 | Removal tools |
|---|---|---|---|---|---|---|---|
| Crimping tools |  |  |  |  |  |  |  |
| | D-Sub contacts | 0.09 ... 0.82 mm² | | | | | 09 99 000 0368 |
| | Han D® contacts | | 0.14 ... 1.5 mm² | 0.14 ... 1.5 mm² | | 0.14 ... 2.5 mm² | 09 99 000 0012 |
| | Han E® contacts | | 0.5 ... 2.5 mm² | 0.5 ... 4.0 mm² | | 0.14 ... 4.0 mm² | 09 99 000 0319 |
| | Han® C contacts | | | 1.5 ... 4.0 mm² | 4.0 ... 10.0 mm² | 1.5 ... 4.0 mm² | 09 99 000 0305 |

**General information:**

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| Han® HC | Cross-section / Wire gauge (mm²) | (AWG) | Male contact (silver plated) | Male contact (IP20 Touch-Proof) | Male contact (silver plated) | Male contact (HMC gold plated) | Female contact (HMC gold plated) | Crimp dies acc. to DIN 46235 |
|---|---|---|---|---|---|---|---|---|
| | | |  |  |  |  |  |  |
| 70 A | 10 | | 09 11 000 6131 | 09 11 000 7100 | 09 11 000 6231 | 09 11 200 6131 | 09 11 200 6231 | 09 99 000 0852 |
| | 16 | | 09 11 000 6132 | 09 11 000 7101 | 09 11 000 6232 | 09 11 200 6132 | 09 11 200 6232 | 09 99 000 0853 |
| | 25 | | 09 11 000 6133 | 09 11 000 7102 | 09 11 000 6233 | 09 11 200 6133 | 09 11 200 6233 | 09 99 000 0854 |
| 100 A | 10 | | 09 11 000 6114 | 09 11 000 7111 | 09 11 000 6214 | 09 11 200 6114 | 09 11 200 6214 | 09 99 000 0852 |
| | 16 | | 09 11 000 6116 | 09 11 000 7112 | 09 11 000 6216 | 09 11 200 6116 | 09 11 200 6216 | 09 99 000 0853 |
| | 25 | | 09 11 000 6125 | 09 11 000 7113 | 09 11 000 6225 | 09 11 200 6125 | 09 11 200 6225 | 09 99 000 0854 |
| | 35 | | 09 11 000 6135 | 09 11 000 7114 | 09 11 000 6235 | 09 11 200 6135 | 09 11 200 6235 | 09 99 000 0855 |
| 200 A | 25 | | 09 11 000 6120 | 09 11 000 7120 | 09 11 000 6220 | | | 09 99 000 0854 |
| | 35 | | 09 11 000 6121 | 09 11 000 7121 | 09 11 000 6221 | | | 09 99 000 0855 |
| | 50 | | 09 11 000 6122 | 09 11 000 7122 | 09 11 000 6222 | | | 09 99 000 0856 |
| | 70 | | 09 11 000 6123 | 09 11 000 7123 | 09 11 000 6223 | | | 09 99 000 0857 |
| 300 A | 70 | | | 09 11 000 7535 | 09 11 000 6635 | | | 09 99 000 0867 |
| | 95 | | | 09 11 000 7536 | 09 11 000 6636 | | | 09 99 000 0868 |
| | 120 | | | 09 11 000 7537 | 09 11 000 6637 | | | 09 99 000 0869 |
| 400 A | 95 | | | 09 11 000 6575 | 09 11 000 6675 | | | 09 99 000 0868 |
| | 120 | | | 09 11 000 6576 | 09 11 000 6676 | | | 09 99 000 0869 |
| | 150 | | | 09 11 000 6577 | 09 11 000 6677 | | | 09 99 000 0870 |
| | 185 | | | 09 11 000 6578 | 09 11 000 6678 | | | 09 99 000 0871 |
| | 240 | | | | | | | 09 99 000 0872 |

| Crimping Tools | Battery hydraulic crimping tool | Hand-Hydraulic crimping tool | Battery crimping Tool Set | Double-Indent Pneumatic crimping Tool |
|---|---|---|---|---|
| |  |  |  |  |
| | 09 99 000 0850<br>(60 kN - 70 mm²) | 09 99 000 0851<br>(60 kN - 70 mm²) | 09 99 000 0990<br>Han D®: 0.14 ... 1.5 mm²<br>Han E®: 0.5 ... 4 mm²<br>Han® C: 1.5 ... 4 mm² | 09 99 000 1010<br>Han D®: 0.14 ... 2.5 mm²,<br>Han E®: 0.14 ... 4 mm²,<br>Han® C: 1.5 ... 10 mm²,<br>D-Sub, Han® ORV3 power:<br>4 ... 10 mm² |
| | 09 99 000 0860<br>(120 kN) | 09 99 000 0861<br>(120 kN) | | |

| Crimping Machine | TK-M | | | | TC-C | | |
|---|---|---|---|---|---|---|---|
| |  | | | |  | | |
| | Series | Cable cross-section | Stripping length | Cange unit | Cable cross-section | Stripping length | Part number |
| | TK-M machine | | | 09 98 000 6900 | | | |
| | Han D® | 0.14* - 2.5 mm² | 8** mm² | 09 98 000 6901 | 0.14 - 2.5 mm² | 8 / 6 mm² | 09 98 000 9001 |
| | Han E® | 0.14* - 4 mm² | 7.5 mm² | 09 98 000 6902 | 0.5 - 4 mm² | 7.5 mm² | 09 98 000 9002 |
| | Han®C | 1.5 - 6 mm² | 9.5 mm² | 09 98 000 6903 | 1.5 -10 mm² | 9.5 / 12 mm² | 09 98 000 9003 |
| | D-Sub | 0.08 - 0.82 mm² | 4 mm² | 09 98 000 6904 | | | |
| | *Depending on the stranded wire / ** 6 mm for Han D® 2.5 mm² | | | | | | |

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