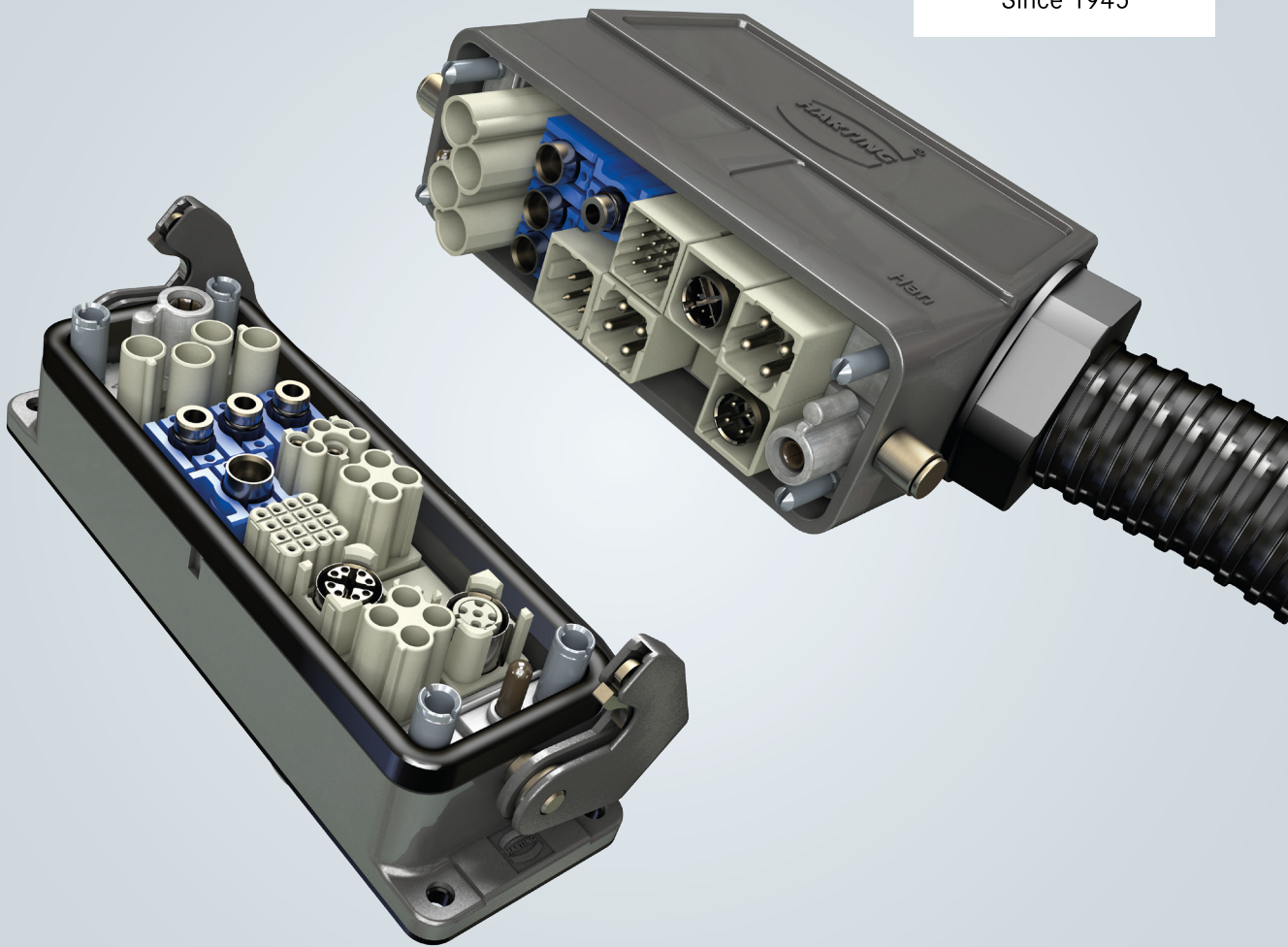




Pushing Performance  
Since 1945



PEOPLE. POWER. PARTNERSHIP.

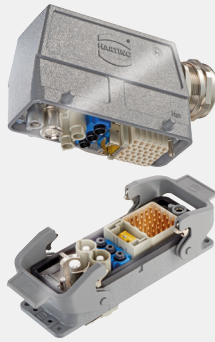
# HARTING Selection Guide

## Han-Modular® Connectors

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## 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.

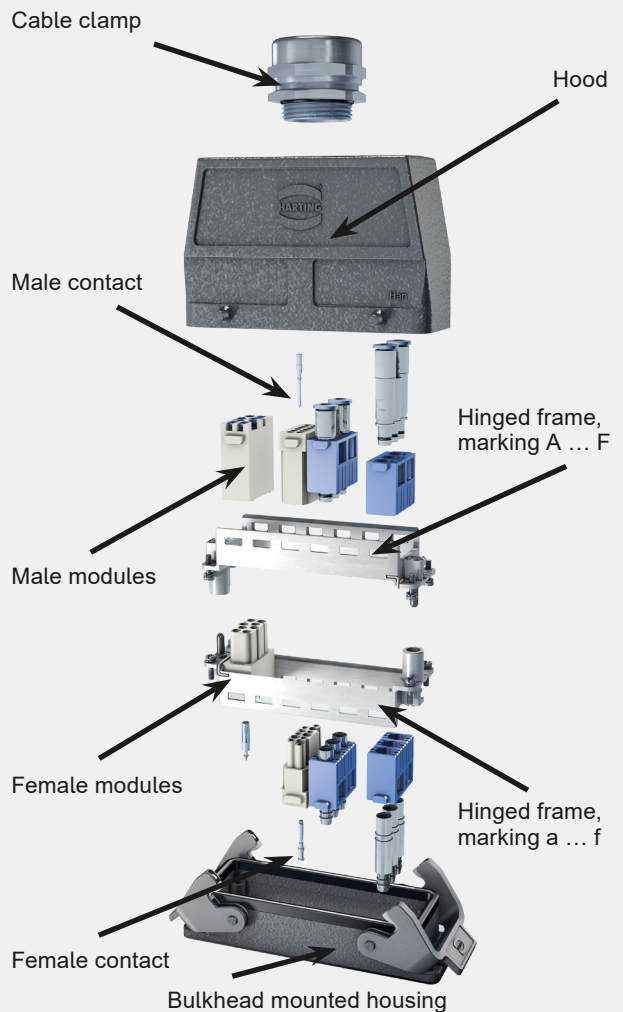


Further additional solutions are available, e.g. suitable docking frames for drawer units. Individual customer requirements can be realised by means of the Han-Modular® series. Combining various transmission media in one single connector results in lower expenditures in installation time and production 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**

## System description



## Technical characteristics

### Specifications and approvals

- DIN EN 61984 / DIN EN 60664-1
- 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 mm <sup>2</sup>                         |
| - Power side             | 4 ... 10 mm <sup>2</sup>                            |
|                          | (10 mm <sup>2</sup> 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

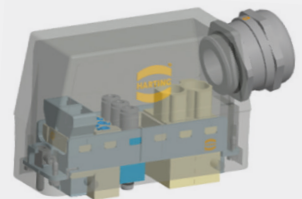
- Hinged frames Zinc die cast
- Modules Polycarbonate
- Contacts Copper alloy

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

## 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](http://www.harting.com/configurator)

## Hinged Frame Plus – the market standard



**Suitable for more than 100 different modules**



**Quick and easy assembly supported by an audible “Click”**



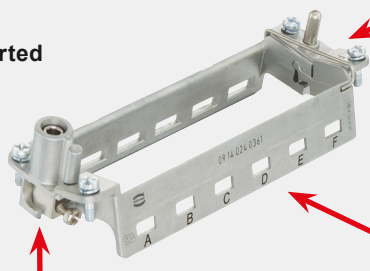
**Very high mechanical stability**



**No tools for insertion and removal**

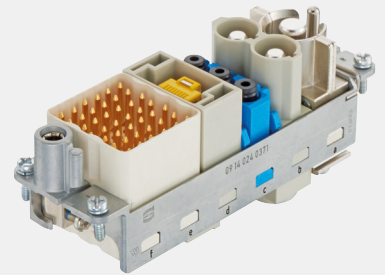


**2 leading PE contacts**



PE termination 0.5 - 2.5 mm<sup>2</sup>  
resp. 4 - 10 mm<sup>2</sup>

Spring mechanism enables easy handling



Clear marking of the module position

Hinged Frames Plus

| 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)     | 09 14 006 0361    | 09 14 010 0361     | 09 14 016 0361     | 09 14 024 0361     |
| Hinged frames (a ... f)     | 09 14 006 0371    | 09 14 010 0371     | 09 14 016 0371     | 09 14 024 0371     |
| HMC Hinged frames (A ... F) | 09 14 206 0303    | 09 14 210 0303     | 09 14 216 0303     | 09 14 224 0303     |
| HMC Hinged frames (a ... f) | 09 14 206 0313    | 09 14 210 0313     | 09 14 216 0313     | 09 14 224 0313     |

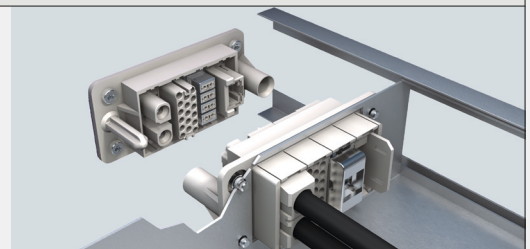
Accessories

| Size        | Han-Modular® Guard for Hinged Frames Plus | Coding element Han® 6 B - 24 B | Guide pins / bushes Han® 6 B - 24 B            | Han® 10 A frame for 1 module |
|-------------|---|--------------------------------|--|------------------------------|
|             |   |                                |  |                              |
| 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 | 09 14 000 0304               |

\* for pneumatic, optical as well as small contacts ( $\leq 5$  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  $\pm 2$  mm play (float mount with M4 adapter plate 09 14 000 9936)
- Removal of the modules with tool 09 99 000 0331



Docking frames

| 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      |

# Han-Modular® Hoods/Housings



|   |   |  |  |  |  |
|---|---|--|--|--|--|
| Han-Modular® hoods/housings   |   | Han-Modular® Compact   | Han-Modular® Twin  | Han-Modular® Eco   | Han-Modular® Eco   |
|   | Hoods/Housings type<br>Number of modules<br>PE termination  | Metal hoods/housings IP65<br>1 module<br>0.5 ... 10 mm <sup>2</sup>                            | Metal hoods/housings IP65<br>2 modules<br>0.5 ... 10 mm <sup>2</sup>                 | 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              | 09 14 001 0311<br>19 14 001 0501<br>19 14 001 0401<br>19 14 001 0402<br>09 14 001 5402         | 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   | 09 14 001 0301<br>09 14 001 0301 + Hood<br>09 14 001 5401                                      | 09 14 002 0301<br>09 14 002 0301 + Hood<br>09 14 002 5401                            | 09 14 001 0320<br>09 14 001 0720   | 09 14 001 0321<br>09 14 001 0721   |
|   | Coding elements   | 09 14 000 997x   |  | 09 14 000 9929   | 09 14 000 9929   |
| Han-Modular® hoods/housings   |   | Han-Eco® Modular   | Han-Yellock®   | Han-Modular® Flexbox   | Module clamp   |
|   | 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 | Plastic mounting frame IP20<br>Snap locking<br>within switch cabinet<br>1 module |
|   |   |  |  |  |  |
| Part numbers  | 19 41 ...   | 11 ...   | 09 14 000 8...   | 09 14 000 0312<br>09 14 000 0313   |  |
| Hoods/housings for hinged frame   |   | Han® B   | Han® EMV   | Han® M   | Han® HPR   |
|   | Hoods/Housings type<br>Locking element<br>Field of application  | 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 ...  |  |
| Hoods/housings, frames, adapter   |   | Han® HMC   | Han-Snap®  | Grip panel   | Docking frame  |
|   | Hoods/Housings type<br>Locking element<br>Field of application  | Metal hoods/housings IP65<br>Han-Easy Lock®<br>Up to 10.000 mating cycles                      | Plastic adapter IP20<br>Snap locking<br>Within switch cabinet                        | Metal mounting frame IP20<br>Screw locking<br>Within switch cabinet                      | Metal frame IP20<br>Without locking<br>For drawer systems                        |
|   | 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 |  |  |  |  |
| Part numbers  | 09 30 2 ... / 19 30 2 ...   | 09 33 ...  | 09 00 0xx 56 ...   | 09 30 0xx 1704   |  |

For more details and part numbers refer to catalogue "Industrial Connectors Han®" as well as the HARTING eCatalogue




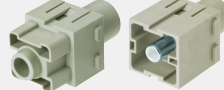
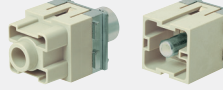
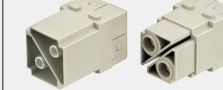
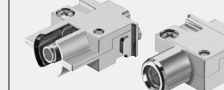

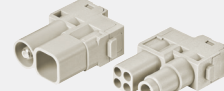

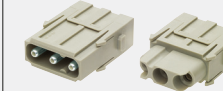
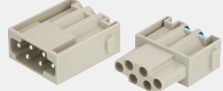

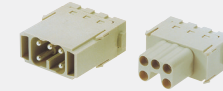
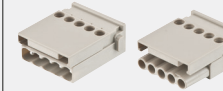

# Crimp Contacts and Crimping Tools



| 5A – D-Sub      | Cross-section / Wire gauge |                |                               |                              | Male contact                 | Female contact              | Male contact                 | Female contact    |
|-----------------|----------------------------|----------------|-------------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|-------------------|
|                 | (mm <sup>2</sup> )         | (AWG)          |                               |                              | (gold plated)                | (gold plated)               | (HMC gold plated)            | (HMC gold plated) |
|                 | 0.09 - 0.25                | 28 - 24        |                               |                              |                              |                             |                              |                   |
|                 | 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    |
| 10A – Han D®    | Cross-section / Wire gauge |                | Male contact                  | Female contact               | Male contact                 | Female contact              | Male contact                 | Female contact    |
|                 | (mm <sup>2</sup> )         | (AWG)          | (silver plated)               | (silver plated)              | (gold plated)                | (gold plated)               | (HMC gold plated)            | (HMC gold plated) |
|                 |                            |                |                               |                              |                              |                             |                              |                   |
|                 | 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 6221               | 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 6214    |
|                 | 2.5                        | 14             | 09 32 000 6105                | 09 32 000 6205               |                              |                             | 09 32 200 6115               | 09 32 200 6215    |
|                 | 4                          | 12             | 09 32 000 6107                | 09 32 000 6207               |                              |                             | 09 32 200 6117               | 09 32 200 6217    |
|                 | 6                          | 10             | 09 32 000 6108                | 09 32 000 6208               |                              |                             | 09 32 200 6118               | 09 32 200 6218    |
|                 | 10                         | 8              | 09 32 000 6109                | 09 32 000 6209               |                              |                             | 09 32 200 6119               | 09 32 200 6219    |
| Crimping tools  | 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     |
|                 |                            |                |                               |                              |                              |                             |                              |                   |
|                 | D-Sub contacts             |                | 0.09 ... 0.82 mm <sup>2</sup> |                              |                              |                             |                              | 09 99 000 0368    |
|                 | Han D® contacts            |                |                               | 0.14 ... 1.5 mm <sup>2</sup> | 0.14 ... 1.5 mm <sup>2</sup> |                             | 0.14 ... 2.5 mm <sup>2</sup> | 09 99 000 0012    |
|                 | Han E® contacts            |                |                               | 0.5 ... 2.5 mm <sup>2</sup>  | 0.5 ... 4.0 mm <sup>2</sup>  |                             | 0.14 ... 4.0 mm <sup>2</sup> | 09 99 000 0319    |
| Han® C contacts |                            |                |                               | 1.5 ... 4.0 mm <sup>2</sup>  | 4.0 ... 10.0 mm <sup>2</sup> | 1.5 ... 4.0 mm <sup>2</sup> | 09 99 000 0305               |                   |
| Han® HC         | Cross-section / Wire gauge |                | Male contact                  | Male contact                 | Female contact               | Crimp dies                  | Battery hydraulic            | Hand-Hydraulic    |
|                 | (mm <sup>2</sup> )         | (AWG)          | (silver plated)               | (IP20 Touch-Proof)           | (silver plated)              | acc. to DIN 46235           | crimping tool                | crimping tool     |
|                 |                            |                |                               |                              |                              |                             |                              |                   |
|                 | 10                         |                | 09 11 000 6131                | 09 11 000 7100               | 09 11 000 6231               | 09 99 000 0852              |                              |                   |
|                 | 16                         |                | 09 11 000 6132                | 09 11 000 7101               | 09 11 000 6232               | 09 99 000 0853              |                              |                   |
|                 | 25                         |                | 09 11 000 6133                | 09 11 000 7102               | 09 11 000 6233               | 09 99 000 0854              |                              |                   |
|                 | 10                         |                | 09 11 000 6114                |                              | 09 11 000 6214               | 09 99 000 0852              |                              |                   |
|                 | 16                         |                | 09 11 000 6116                |                              | 09 11 000 6216               | 09 99 000 0853              |                              |                   |
|                 | 25                         |                | 09 11 000 6125                |                              | 09 11 000 6225               | 09 99 000 0854              |                              |                   |
|                 | 35                         |                | 09 11 000 6135                |                              | 09 11 000 6235               | 09 99 000 0855              |                              |                   |
| 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               |                             |                              |                   |
| 70              |                            |                | 09 11 000 7535                | 09 11 000 6635               | 09 99 000 0867               | 09 99 000 0860<br>(120 kN)  | 09 99 000 0861<br>(120 kN)   |                   |
| 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               |                             |                              |                   |





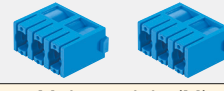




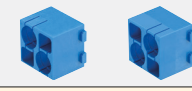
# Power and Signal Modules – Field Assembly



|             | Han® 300A PE module  | Han® 200 A Axial module  | Han® 200 A PE module   | Han® 100 A Axial module   | Han® PE module   |                           |
|-------------|--|--|--|---|--|---------------------------|
| 100 - 300 A | <br>1 x PE*<br>300 A<br>Axial screw termination   | <br>1 contact*<br>200 A / 1000 V<br>Axial screw termination                               | <br>1 x PE*<br>200 A<br>Axial screw termination                               | <br>2 contacts*<br>100 A / 1000 V<br>Axial screw termination                             | <br>1 x PE<br>100 A<br>Axial screw termination  |                           |
|             |  | 95 ... 120 mm <sup>2</sup>   | 40 ... 70 mm <sup>2</sup>  | 40 ... 70 mm <sup>2</sup>   | 16 ... 35 mm <sup>2</sup>  | 16 ... 35 mm <sup>2</sup> |
|             | (M)  | 09 14 001 2681   | 09 14 001 2662   | 09 14 001 2667  | 09 14 002 2651   | 09 14 001 2633            |
|             | (F)  | 09 14 001 2781   | 09 14 001 2762   | 09 14 001 2767  | 09 14 002 2751   | 09 14 001 2733            |
|             |  |  | 25 ... 40 mm <sup>2</sup>  | 25 ... 40 mm <sup>2</sup>   | 10 ... 25 mm <sup>2</sup>  | 10 ... 25 mm <sup>2</sup> |
|             | (M)  |  | 09 14 001 2663   | 09 14 001 2668  | 09 14 002 2653   | 09 14 001 2632            |
| (F)         |  | 09 14 001 2763   | 09 14 001 2768   | 09 14 002 2753  | 09 14 001 2732   |                           |
| 40 - 70 A   | Han® 70 A Axial module   | Han® 70 A Hybrid module  | Han® 40A Axial module  | Han® C Axial module   |  |                           |
|             | <br>2 contacts<br>70 A / 1000 V<br>Axial screw termination                                | <br>1 + (4 x Han E)<br>70 A / 1000 V<br>Axial screw termination                           | <br>2 contacts<br>40 A / 1000 V<br>Axial screw termination                    | <br>3 contacts<br>40 A / 690 V<br>Axial screw termination                                |  |                           |
|             |  | 14 ... 22 mm <sup>2</sup>  | 14 ... 22 mm <sup>2</sup>  | 6 ... 10 mm <sup>2</sup>  | 6 ... 10 mm <sup>2</sup>   |                           |
|             | (M)  | 09 14 002 2647   | 09 14 005 2647   | 09 14 002 2602  | 09 14 003 2602   |                           |
|             | (F)  | 09 14 002 2742   | 09 14 005 2742   | 09 14 002 2702  | 09 14 003 2702   |                           |
|             |  | 6 ... 16 mm <sup>2</sup>   | 6 ... 16 mm <sup>2</sup>   | 2.5 ... 8 mm <sup>2</sup>   | 2.5 ... 8 mm <sup>2</sup>  |                           |
| (M)         | 09 14 002 2646   | 09 14 005 2646   | 09 14 002 2601   | 09 14 003 2601  |  |                           |
| (F)         | 09 14 002 2741   | 09 14 005 2741   | 09 14 002 2701   | 09 14 003 2701  |  |                           |
| 10 - 16 A   | Han E® Quick Lock module   | Han® EE Quick Lock module  | Han® ES module   | Han E® screw module   | Han DD® Quick Lock Modul   |                           |
|             | <br>6 contacts<br>16 A / 500 V<br>Quick Lock termination<br>0.5 ... 2.5 mm <sup>2</sup> | <br>8 contacts<br>16 A / 400 V<br>Quick Lock termination<br>0.5 ... 2.5 mm <sup>2</sup> | <br>5 contacts<br>16 A / 400 V<br>Cage clamp termination<br>0.14 ... 2.5 mm | <br>5 contacts<br>16 A / 230/400 V<br>Screw termination<br>0.5 ... 2.5 mm <sup>2</sup> | <br>12 contacts<br>10 A / 250 V<br>Quick Lock termination<br>0.25 ... 1.5 mm <sup>2</sup> |                           |
|             | (M)  | 09 14 006 2633   | 09 14 008 2633   | 09 14 005 2616  | 09 14 005 2601   | 09 14 012 2632            |
|             | (F)  | 09 14 006 2733   | 09 14 008 2733   | 09 14 005 2716  | 09 14 005 2701   | 09 14 012 2732            |

# Pneumatic Modules

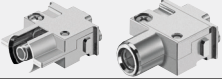
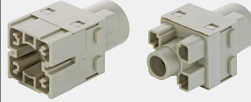
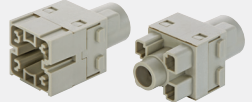
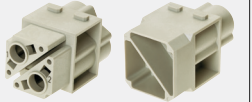
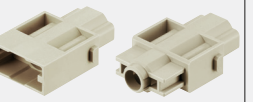


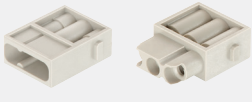
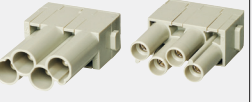
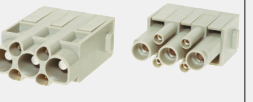
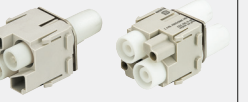
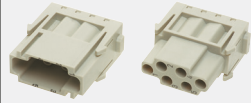

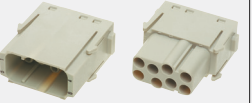
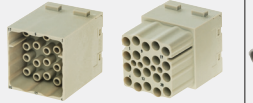


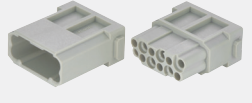

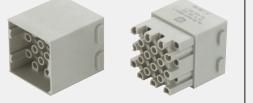
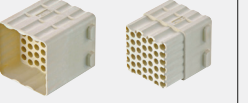

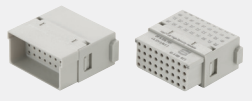





|                 | Pneumatic module  | Contacts ( ≤ 10 bar )   |   |   | Module  |
|-----------------|---|---|---|---|---|
| Tubes, 3 - 6 mm |  |  |  |  | Number of contacts: 3<br>  |
|                 | For tube diameter Ø   | 6 mm OD   | 4 mm OD   | 3 mm OD   | Male module (M)<br>09 14 003 3501   |
|                 | Male contact  | 09 14 000 6356  | 09 14 000 6354  | 09 14 000 6353  | Female module (F)<br>09 14 003 3501   |
|                 | Female without shut-off   | 09 14 000 6456  | 09 14 000 6454  | 09 14 000 6453  |   |
|                 | Female with shut-off  | 09 14 000 6466  | 09 14 000 6464  | 09 14 000 6463  |   |
| Tubes, 8/10 mm  |  |  |  |  | Number of contacts: 2*<br> |
|                 | 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 module (F)<br>09 14 002 3502   |
|                 | Female without shut-off   | 09 14 000 6458  | 09 14 000 6450  | 09 14 000 6410  |   |
|                 | Female with shut-off  | 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

# Power and Signal Modules – Crimp Termination



|            |                   | Han® PE module (Including crimp contact for earthing)  |  |  |   |   |
|------------|-------------------|--|--|--|---|---|
| PE         |                   |                 | 1 x PE<br>35 mm <sup>2</sup><br>Crimp termination, Han® HC                               | 1 x PE<br>25 mm <sup>2</sup><br>Crimp termination, Han® HC                               | 1 x PE<br>16 mm <sup>2</sup><br>Crimp termination, Han® HC                                    | 1 x PE<br>10 mm <sup>2</sup><br>Crimp termination, Han® HC  |
|            | Male module (M)   |  | 09 14 001 3074   | 09 14 001 3073   | 09 14 001 3072  | 09 14 001 3071  |
|            | Female module (F) |  | 09 14 001 3174   | 09 14 001 3173   | 09 14 001 3172  | 09 14 001 3171  |
| 70 - 300 A |                   |                 |         |         |             |                                |
|            |                   | 1 contact*<br>300 A / 1000 V<br>70 ... 120 mm <sup>2</sup><br>Crimp termination, Han® HC         | 1 contact*<br>200 A / 1000 V<br>25 ... 70 mm <sup>2</sup><br>Crimp termination, Han® HC  | 2 contacts*<br>100 A / 1000 V<br>10 ... 35 mm <sup>2</sup><br>Crimp termination, Han® HC | 1 contact<br>100 A / 830 V<br>10 ... 35 mm <sup>2</sup><br>Crimp termination, Han® HC         | 2 contacts<br>70 A / 1000 V<br>6 ... 25 mm <sup>2</sup><br>Crimp termination, Han® HC                             |
|            | (M)               | 09 14 001 3004   | 09 14 001 3003   | 09 14 002 3051   | 09 14 001 3031  | 09 14 002 3041  |
|            | (F)               | 09 14 001 3104   | 09 14 001 3103   | 09 14 002 3151   | 09 14 001 3131  | 09 14 002 3141  |
| 40 A       |                   |                 |         |         |             |                                |
|            |                   | 2 contacts<br>40 A / 1000 V<br>1.5 ... 10 mm <sup>2</sup><br>Crimp termination, Han® C           | 3 contacts<br>40 A / 690 V<br>1.5 ... 6 mm <sup>2</sup><br>Crimp termination, Han® C     | 4 contacts<br>40 A / 830 V<br>1.5 ... 6 mm <sup>2</sup><br>Crimp termination, Han® C     | 3 + 4 contacts<br>40 A + 10 A / 830 V<br>0.14 ... 6 mm <sup>2</sup><br>Crimp, Han® C + Han D® | 2 contacts*<br>40 A 2900/5000 V<br>1.5 ... 10 mm <sup>2</sup><br>Crimp termination, Han® C                        |
|            | (M)               | 09 14 002 3002   | 09 14 003 3001   | 09 14 004 3041   | 09 14 007 3001  | 09 14 002 3023  |
|            | (F)               | 09 14 002 3102   | 09 14 003 3101   | 09 14 004 3141   | 09 14 007 3101  | 09 14 002 3123  |
| 16 A       |                   |               |       |       |           |                              |
|            |                   | 6 contacts<br>16 A / 500 V<br>0.14 ... 4 mm <sup>2</sup><br>Crimp termination, Han E®            | 6 contacts<br>16 A / 830 V<br>0.14 ... 4 mm <sup>2</sup><br>Crimp termination, Han E®    | 8 contacts<br>16 A / 400 V<br>0.14 ... 4 mm <sup>2</sup><br>Crimp termination, Han E®    | 20 contacts*<br>16 A / 500 V<br>0.14 ... 4 mm <sup>2</sup><br>Crimp termination, Han E®       | 2 contacts<br>16 A / 2500 V<br>0.14 ... 4 mm <sup>2</sup><br>Crimp termination, Han E®                            |
|            | (M)               | 09 14 006 3001   | 09 14 006 3041   | 09 14 008 3001   | 09 14 020 3001  | 09 14 002 3025  |
|            | (F)               | 09 14 006 3101   | 09 14 006 3141   | 09 14 008 3101   | 09 14 020 3101  | 09 14 002 3125  |
| 10 - 16 A  |                   |               |       |       |           |                              |
|            |                   | 4 + 2 + shielding<br>16 A + 10 A / 400 V<br>0.14 ... 4 mm <sup>2</sup><br>Crimp, Han E® + Han D® | 12 contacts<br>10 A / 250 V<br>0.14 ... 2.5 mm <sup>2</sup><br>Crimp termination, Han D® | 17 contacts<br>10 A / 150 V<br>0.14 ... 2.5 mm <sup>2</sup><br>Crimp termination, Han D® | 36 contacts*<br>10 A / 400 V<br>0.14 ... 2.5 mm <sup>2</sup><br>Crimp termination, Han D®     | 42 contacts*<br>10 A / 150 V<br>0.14 ... 2.5 mm <sup>2</sup><br>Crimp termination, Han D®                         |
|            | (M)               | 09 14 006 3021   | 09 14 012 3002   | 09 14 017 3001   | 09 14 036 3002  | 09 14 042 3001  |
|            | (F)               | 09 14 006 3121   | 09 14 012 3102   | 09 14 017 3101   | 09 14 036 3102  | 09 14 042 3101  |
| ≤ 10 A     |                   |               |       |       |           |                              |
|            |                   | 25 contacts<br>4 A / 50 V<br>0.08 ... 0.52 mm <sup>2</sup><br>Crimp termination, D-Sub           | 36 contacts<br>4 A / 32 V<br>0.14 ... 0.52 mm <sup>2</sup><br>Crimp termination, D-Sub   | To fill-up empty module places   | To fill-up empty module places, additional guiding function                                   | 2 contacts with relay function (last mate – first break)<br>Crimp termination, Han E®<br>Relay contacts necessary |
|            | (M)               | 09 14 025 3001   | 09 14 036 3001   | 09 14 000 9950   | 09 14 003 3050  | 09 14 003 3051  |
|            | (F)               | 09 14 025 3101   | 09 14 036 3101   |  | 09 14 003 3150  | 09 14 003 3151  |

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



# Data Transfer Modules



| Han® RJ45 module  |  | for patch cable   | for IDC  | for patch cable   | for IDC and preLink   |                |
|---|--|---|--|---|---|----------------|
| Han® RJ45 modules   | - 8 contacts<br>- cat. 6A<br>- 10 Gbit/s   |   |  |   |   |                |
|   | Part numbers   | Male module (M)<br>09 14 001 4623   | Male module (M)<br>09 14 001 4623  | 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 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 additional shielding termination to the hinged frame   | <br>10 Gbit/s (cat. 6A)<br>8 contacts + shielding<br>0.5 A / 32 V<br>0.09 ... 0.25 mm <sup>2</sup><br>Crimp termination, har-speed | <br>100 Mbit/s (cat. 5e)<br>4 contacts + shielding<br>4 A / 32 V<br>0.09 ... 0.52 mm <sup>2</sup><br>Crimp termination, D-Sub                                     | <br>8 contacts + shielding<br>2 A / 30 V<br>0.13 ... 0.33 mm <sup>2</sup><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 3160  | 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  | <br>100 Mbit/s (cat. 5e)<br>4 contacts + shielding<br>10 A / 50 V<br>0.14 ... 2.5 mm <sup>2</sup><br>Crimp termination, Han® D  | <br>100 Mbit/s (cat. 5e)<br>8 contacts + shielding<br>5 A / 50 V<br>0.09 ... 0.52 mm <sup>2</sup><br>Crimp termination, D-Sub      | <br>≤ 500 Mhz / 75 Ω<br>1 contact + shielding<br>10 A / 50 V<br>0.14 ... 2.5 mm <sup>2</sup><br>Crimp termination, Han® D   | <br>≤ 500 Mhz / 50 Ω<br>1 contact + shielding<br>16 A / 50 V<br>0.14 ... 4 mm <sup>2</sup><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 |
|   |  |   |  |   |   |                |
| <i>Optional shield connection to the hinged frame with the Han-Quintax metal adapter 09 14 000 9915</i> |  |   |  |   |   |                |
| 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   |                |
|   | Module for one<br>- Han Gigabit insert<br>- Han Megabit insert<br>- Han Shielded insert            | <br>10 Gbit/s (cat. 6A)<br>8 contacts + shielding<br>5 A / 60 V DC<br>0.09 ... 0.52 mm <sup>2</sup><br>Crimp termination, D-Sub | <br>40 Gbit/s (cat. 8.2)<br>8 contacts + shielding<br>5 A / 60 V DC<br>0.09 ... 0.52 mm <sup>2</sup><br>Crimp termination, D-Sub   | <br>2 cable entries Ø 10 mm<br>2 x 100 Mbit/s (cat. 5e)<br>2 x 4 contacts + shielding<br>10 A / 50 V<br>0.14 ... 2.5 mm <sup>2</sup><br>Crimp termination, Han® D | <br>1 cable entry<br>1 Gbit/s (cat. 5e)<br>2 x 4 contacts + shielding<br>10 A / 50 V<br>0.14 ... 2.5 mm <sup>2</sup><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® Shielded module basic+   | Han® D-Sub module  | Han® USB module   |   |                |
|   |  |   |  |   |   |                |
|   | 20 contacts + shielding<br>4 A / 32 V<br>0.09 ... 0.52 mm <sup>2</sup><br>Crimp termination, D-Sub | 27 contacts + shielding<br>4 A / 32 V<br>0.09 ... 0.52 mm <sup>2</sup><br>Crimp termination, D-Sub                              | 9 contacts + shielding<br>5 A / 50 V<br>0.09 ... 0.52 mm <sup>2</sup><br>Crimp termination, D-Sub                                  | 8 contacts + shielding<br>1 A / 50 V<br>(USB 3.0)<br>for USB Patchkabel   |   |                |
|   | (M)  | 09 14 020 3013  | 09 14 027 3022   | 09 14 009 3001  | 09 14 001 4601  |                |
| (F)   | 09 14 020 3113   | 09 14 027 3122  | 09 14 009 3101   | 09 14 001 4703  |   |                |

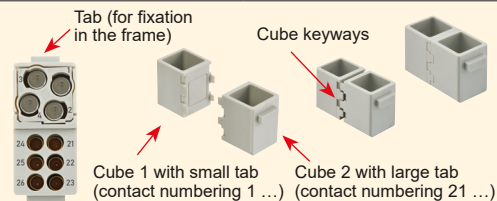
(M) = Part numbers Male Module (F) = Part numbers Female Module \* Double module, requires two places in the frame



# Han-Modular® Domino Modules



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.**



|                     |             | Han® EE Cube  | Han® DD Cube  | Han® HD Cube   | Pneumatic Cube                            |                |
|---------------------|-------------|---|---|--|---|----------------|
| Han® Domino Modules |             | <br>4 contacts<br>16 A / 400 V<br>0.14 ... 4 mm <sup>2</sup><br>Crimp termination, Han® E | <br>6 contacts<br>10 A / 250 V<br>0.14 ... 2.5 mm <sup>2</sup><br>Crimp termination, Han® D | <br>16 contacts<br>4 A / 32 V<br>0.09 ... 0.52 mm <sup>2</sup><br>Crimp termination, D-Sub | <br>1 contact<br>≤ 10 bar<br>3 + 4 + 6 mm |                |
|                     | Male-Cube   | small tab   | 09 14 904 1001  | 09 14 906 1001   | 09 14 916 1001                            | 09 14 931 1001 |
|                     | Female-Cube | small tab   | 09 14 904 1101  | 09 14 906 1101   | 09 14 916 1101                            | 09 14 931 1001 |
|                     | Male-Cube   | large tab   | 09 14 904 2001  | 09 14 906 2001   | 09 14 916 2001                            | 09 14 931 2001 |
|                     | Female-Cube | large tab   | 09 14 904 2101  | 09 14 906 2101   | 09 14 916 2101                            | 09 14 931 2001 |
| Han® Domino Modules |             | <br>for 1 Han® M12 insert<br>(see data transfer modules)                                  | <br>for 1 Han® M12 insert<br>(with shield connection<br>to the hinged frame)                | <br>Place holder for<br>extensions   |   |                |
|                     | Male-Cube   | small tab   | 09 14 921 1001  | 09 14 921 1002   | 09 14 900 1000                            |                |
|                     | Female-Cube | small tab   | 09 14 921 1101  | 09 14 921 1102   | 09 14 900 1000                            |                |
|                     | Male-Cube   | large tab   | 09 14 921 2001  | 09 14 921 2002   | 09 14 900 2000                            |                |
|                     | Female-Cube | large tab   | 09 14 921 2101  | 09 14 921 2102   | 09 14 900 2000                            |                |

## Further Modules



|                               |     | Han® LC module   | Han® SC module  | Han® Multi module (D-Sub)  | Han® Multi module (DIN)   | Han® Multi double module*  |
|-------------------------------|-----|--|---|--|---|--|
| Coaxial & optical modules     |     | 6 FO contacts (LC)<br>single-mode<br>multi-mode  | 4 FO contacts (SC)<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 | 12 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 4513   | 09 14 004 4512  | 09 14 012 4512   |
| Specific modules & Han-Smart® |     | PE contact, for Han-Eco®<br>hoods/housings only<br>1.5 ... 16 mm <sup>2</sup><br>Screw termination | 10 MB Flash<br>Module for identifying<br>industrial components<br>CANopen communication | 32 KB Flash<br>Module for identifying<br>industrial components<br>Profinet communication | 0.5 A / 24 V DC<br>Surge protection<br>for four single lines        | 4 Ports (RJ45)<br>Full Gigabit Ethernet                              |
|                               | (M) | 19 41 001 2600   | 09 80 015 0100  | 09 80 615 0100   | 09 80 000 0101  |  |
|                               | (F) | 19 41 001 2700   | 09 80 115 0200  | 09 80 615 0200   | 09 80 003 0201  | 09 80 113 0400   |

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



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