



**Pushing Performance**  
Since 1945

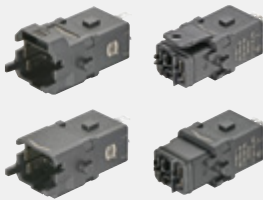


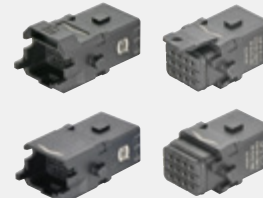
People | Power | Partnership

# **HARTING Selection Guide**

## **Han<sup>®</sup> 1A Connectors**



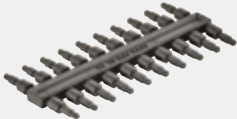
| Power |                           | 2+PE Screw                                                                        | 3+PE Screw                                                                         | 3+PE Shielded                                                                       |
|-------|---------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |                           |  |  |  |
|       | Contacts / wires          | 2+PE                                                                              | 3+PE                                                                               | 3+PE + shielding                                                                    |
|       | Electrical data           | 10 A / 230/400 V                                                                  | 10 A / 230/400 V                                                                   | 10 A / 400 V                                                                        |
|       | Termination               | Screw                                                                             | Screw                                                                              | Crimp                                                                               |
|       | Conductor cross-section   | 0.75 ... 1.5 mm <sup>2</sup>                                                      | 0.75 ... 1.5 mm <sup>2</sup>                                                       | 0.14 ... 2.5 mm <sup>2</sup>                                                        |
|       | Male with snap-in latch   | 09 10 002 2601                                                                    | 09 10 003 2601                                                                     | 09 10 003 3001                                                                      |
|       | Female with snap-in latch | 09 10 002 2701                                                                    | 09 10 003 2701                                                                     | 09 10 003 3101                                                                      |
|       | Male for locking lever    | 09 10 002 2606                                                                    | 09 10 003 2606                                                                     | 09 10 003 3006                                                                      |
|       | Female for locking lever  | 09 10 002 2706                                                                    | 09 10 003 2706                                                                     | 09 10 003 3106                                                                      |
|       | Single wire seal*         | 09 10 004 9900                                                                    | 09 10 004 9900                                                                     |                                                                                     |
|       | Note                      | Insert incl. contacts                                                             | Insert incl. contacts                                                              | Han® D contacts to be ordered separately                                            |

| Power and Signal |                           | 3+PE Crimp                                                                         | 5+PE Crimp                                                                          | 12 Crimp                                                                                              |
|------------------|---------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                  |                           |  |  |                   |
|                  | Contacts / wires          | 3+PE                                                                               | 5+PE                                                                                | 12                                                                                                    |
|                  | Electrical data           | 16 A / 400 V                                                                       | 10 A / 400 V                                                                        | 6.5 A / 50 V                                                                                          |
|                  | Termination               | Crimp                                                                              | Crimp                                                                               | Crimp                                                                                                 |
|                  | Conductor cross-section   | 0.14 ... 4 mm <sup>2</sup>                                                         | 0.14 ... 2.5 mm <sup>2</sup>                                                        | 0.09 ... 0.52 mm <sup>2</sup>                                                                         |
|                  | Male with snap-in latch   | 09 10 003 3201                                                                     | 09 10 005 3001                                                                      | 09 10 012 3001                                                                                        |
|                  | Female with snap-in latch | 09 10 003 3301                                                                     | 09 10 005 3101                                                                      | 09 10 012 3101                                                                                        |
|                  | Male for locking lever    | 09 10 003 3206                                                                     | 09 10 005 3006                                                                      | 09 10 012 3006                                                                                        |
|                  | Female for locking lever  | 09 10 003 3306                                                                     | 09 10 005 3106                                                                      | 09 10 012 3106                                                                                        |
|                  | Single wire seal*         | 09 10 004 9901                                                                     | 09 10 006 9900                                                                      | 09 10 012 9900                                                                                        |
|                  | Note                      | Han E® contacts to be ordered separately                                           | Han D® contacts to be ordered separately                                            | Han® D-Sub contacts to be ordered separately. For insertion/removal use tool part no. 09 99 000 0809. |

| Data |                         | Cat. 5                                                                              | Cat. 6 <sub>A</sub>                                                                  | Cat. 5                                                                                | Cat. 6 <sub>A</sub>                                                                   |
|------|-------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|      |                         |  |  |  |  |
|      |                         | With snap-in latch                                                                  | With snap-in latch                                                                   | For locking lever                                                                     | For locking lever                                                                     |
|      | Contacts / wires        | 4                                                                                   | 8                                                                                    | 4                                                                                     | 8                                                                                     |
|      | Electrical data         | 4 A / 48 VAC/60 VDC                                                                 | 0.5 A / 48 V                                                                         | 4 A / 48 VAC/60 VDC                                                                   | 0.5 A / 48 V                                                                          |
|      | Data transmission rate  | 100 Mbit/s                                                                          | 10 Gbit/s                                                                            | 100 Mbit/s                                                                            | 10 Gbit/s                                                                             |
|      | Termination             | Crimp                                                                               | Crimp                                                                                | Crimp                                                                                 | Crimp                                                                                 |
|      | Conductor cross-section | 0.13 ... 0.82 mm <sup>2</sup>                                                       | 0.08 ... 0.25 mm <sup>2</sup>                                                        | 0.13 ... 0.82 mm <sup>2</sup>                                                         | 0.08 ... 0.25 mm <sup>2</sup>                                                         |
|      | Male insert             | 09 10 004 3001                                                                      | 09 10 008 3001                                                                       | 09 10 004 3006                                                                        | 09 10 008 3006                                                                        |
|      | Female insert           | 09 10 004 3101                                                                      | 09 10 008 3101                                                                       | 09 10 004 3106                                                                        | 09 10 008 3106                                                                        |
|      | Advice                  | D-Sub contacts to be ordered separately                                             | har-speed M12 contacts to be ordered separately                                      | D-Sub contacts to be ordered separately                                               | har-speed M12 contacts to be ordered separately                                       |

\* Single wire seal for IP 65 protection is not required if a cable adapter (09 10 000 0400) or a bulkhead mounted housing (09 10 000 0300 / 09 10 000 0800) is used



|                                                                 |                     |                                                                                     |                                                                                     |                                                                                      |                                                                                     |
|-----------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Housing components                                              |                     | Bulkhead mounted housing, straight                                                  | Bulkhead mounted housing, angled                                                    | Cable adapter                                                                        | Strain relief                                                                       |
|                                                                 |                     |    |    |    |  |
|                                                                 | Cable diameter      |                                                                                     |                                                                                     | 5.7 - 10 mm                                                                          |                                                                                     |
|                                                                 | IP protection class | IP65                                                                                | IP65                                                                                | IP65                                                                                 | IP20                                                                                |
|                                                                 | Part number         | 09 10 000 0300                                                                      | 09 10 000 0800                                                                      | 09 10 000 0400                                                                       | 09 10 000 5300                                                                      |
| Accessories                                                     |                     | Protection cover                                                                    | Protection cover                                                                    | Protection cover                                                                     |                                                                                     |
|                                                                 |                     |    |    |    |                                                                                     |
|                                                                 |                     | for male insert                                                                     | for male insert                                                                     | for male insert                                                                      |                                                                                     |
|                                                                 | IP protection class | IP65                                                                                | IP65                                                                                | IP65                                                                                 |                                                                                     |
|                                                                 | Part number         | 09 10 000 5400                                                                      | 09 10 000 5401                                                                      | 09 10 000 5402                                                                       |                                                                                     |
|                                                                 | Suitable for        | 09 10 012 300X                                                                      | 09 10 003 300X                                                                      | 09 10 002 260X                                                                       |                                                                                     |
|                                                                 |                     |                                                                                     | 09 10 003 320X                                                                      | 09 10 003 260X                                                                       |                                                                                     |
|                                                                 |                     |                                                                                     | 09 10 005 300X                                                                      | 09 10 004 300X                                                                       |                                                                                     |
| Accessories                                                     |                     | Protection cover                                                                    | Protection cover                                                                    | Protection cover                                                                     | Fixing cord                                                                         |
|                                                                 |                     |  |  |  |                                                                                     |
|                                                                 |                     | for female insert                                                                   | for female insert                                                                   | for female insert                                                                    | for protection cover (male/female)                                                  |
|                                                                 | IP protection class | IP65                                                                                | IP65                                                                                | IP65                                                                                 |                                                                                     |
|                                                                 | Part number         | 09 10 000 5500                                                                      | 09 10 000 5501                                                                      | 09 10 000 5502                                                                       | 09 10 000 9959                                                                      |
|                                                                 | Suitable for        | 09 10 012 310X                                                                      | 09 10 003 310X                                                                      | 09 10 002 270X                                                                       |                                                                                     |
|                                                                 |                     |                                                                                     | 09 10 003 330X                                                                      | 09 10 003 270X                                                                       |                                                                                     |
|                                                                 |                     |                                                                                     | 09 10 005 310X                                                                      | 09 10 004 310X                                                                       |                                                                                     |
| X = 1 Insert with snap-in latch, X = 6 Insert for locking lever |                     |                                                                                     |                                                                                     |                                                                                      |                                                                                     |
| Accessories                                                     |                     | Dummy plugs                                                                         | Locking lever                                                                       | Colour coding elements                                                               |                                                                                     |
|                                                                 |                     |  |  |  |                                                                                     |
|                                                                 |                     |                                                                                     | Stainless steel                                                                     |                                                                                      |                                                                                     |
|                                                                 | Part number         | 09 10 000 9909                                                                      | 09 10 000 5200                                                                      | 09 10 000 9901 (red)                                                                 |                                                                                     |
|                                                                 |                     |                                                                                     |                                                                                     | 09 10 000 9902 (blue)                                                                |                                                                                     |
|                                                                 |                     |                                                                                     |                                                                                     | 09 10 000 9903 (green)                                                               |                                                                                     |
| Accessories                                                     |                     |                                                                                     |                                                                                     | 09 10 000 9904 (yellow)                                                              |                                                                                     |
|                                                                 |                     |                                                                                     |                                                                                     | 09 10 000 9905 (violet)                                                              |                                                                                     |
|                                                                 |                     | Mounting frame                                                                      | DIN rail adapter                                                                    | DIN rail adapter                                                                     |                                                                                     |
|                                                                 |                     |  |  |  |                                                                                     |
|                                                                 | Part number         | 09 10 000 9908                                                                      | 09 10 000 9911                                                                      | 09 10 000 9912                                                                       |                                                                                     |

Crimp Contacts and Crimping Tools



|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|----------------------------|------------------------------------|---------|-----------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------|----------------------------------|----------------------------------------------|
| 6.5 A – D-Sub/0.5A /4A-M12 | Cross-section / wire gauge         |         | Har-speed M12 male<br>(gold plated)           | Har-speed M12 female<br>(gold plated)                                 | D-Sub male<br>(gold plated)                                            | D-Sub female<br>(gold plated)        |                                  |                                              |
|                            | (mm²)                              | (AWG)   |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            | 0.13 - 0.25                        | 26 - 23 | 21 01 100 9019                                | 21 01 100 9021                                                        |                                                                        |                                      |                                  |                                              |
|                            | 0.09 - 0.25                        | 28 - 24 | 21 01 100 9014                                | 21 01 100 9023                                                        | 09 67 000 7576                                                         | 09 67 000 7476                       |                                  |                                              |
|                            | 0.13 - 0.33                        | 26 - 22 |                                               |                                                                       | 09 67 000 5576                                                         | 09 67 000 5476                       |                                  |                                              |
| 10 A – Han D®              | 0.25 - 0.52                        | 24 - 20 |                                               |                                                                       | 09 67 000 8576                                                         | 09 67 000 8476                       |                                  |                                              |
|                            | 0.33 - 0.82                        | 22 - 18 |                                               |                                                                       | 09 67 000 3576                                                         | 09 67 000 3476                       |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
| 16 A – Han E®              | Cross-section / wire gauge         |         | male<br>(silver plated)                       | female<br>(silver plated)                                             | male<br>(gold plated)                                                  | female<br>(gold plated)              |                                  |                                              |
|                            | (mm²)                              | (AWG)   |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            | 0.14 - 0.37                        | 26 - 22 | 09 15 000 6104                                | 09 15 000 6204                                                        | 09 15 000 6124                                                         | 09 15 000 6224                       |                                  |                                              |
|                            | 0.5                                | 20      | 09 15 000 6103                                | 09 15 000 6203                                                        | 09 15 000 6123                                                         | 09 15 000 6223                       |                                  |                                              |
|                            | 0.75                               | 18      | 09 15 000 6105                                | 09 15 000 6205                                                        | 09 15 000 6125                                                         | 09 15 000 6225                       |                                  |                                              |
|                            | 1                                  | 18      | 09 15 000 6102                                | 09 15 000 6202                                                        | 09 15 000 6122                                                         | 09 15 000 6222                       |                                  |                                              |
|                            | 1.5                                | 16      | 09 15 000 6101                                | 09 15 000 6201                                                        | 09 15 000 6121                                                         | 09 15 000 6221                       |                                  |                                              |
|                            | 2.5                                | 14      | 09 15 000 6106                                | 09 15 000 6206                                                        | 09 15 000 6126                                                         | 09 15 000 6226                       |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
| Crimping tools             | Crimping tools acc. to IEC 60352-2 |         | 09 99 000 0501                                | 09 99 000 0525                                                        | 09 99 000 0635                                                         | 09 99 000 0531                       |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            | Contacts / cross-section [mm²]     |         | D-Sub / 0.09 ... 0.52                         | Positioner for M12 male                                               | Positioner for M12 female                                              | Positioner for D-Sub male and female |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
| Crimping tools             | Crimping tools acc. to IEC 60352-2 |         | 09 99 000 0021                                | 09 99 000 0110                                                        | 09 99 000 0888                                                         | 09 99 000 0012                       | 09 99 000 0847                   | 09 99 000 0809                               |
|                            |                                    |         |                                               |                                                                       |                                                                        |                                      |                                  |                                              |
|                            | Contacts / cross-section [mm²]     |         | Han D® / 0.14 ... 1.5<br>Han E® / 0.5 ... 2.5 | Han D® / 0.14 ... 1.5<br>Han E® / 0.5 ... 4.0<br>Han® C / 1.5 ... 4.0 | Han D® / 0.14 ... 2.5<br>Han E® / 0.14 ... 4.0<br>Han® C / 1.5 ... 4.0 | Han D®<br>Removal Tool               | Han E® / Han D®<br>Assembly Tool | Han® 1A D-Sub<br>Insertion / Removal<br>Tool |

Description and Overview

HARTING Han® 1A System Cabling - pre-assembled, overmoulded and universally usable

Feature & Benefits:

- Time savings - quick and easy installation due to a Plug & Play solution
- Reliability - highest level of quality due to a 100% outgoing goods inspection
- High robustness - IP65, IP66/67 in mated and locked position
- Customised system cablings on request - including different lengths, cable types and variants
- Compact solutions for power and signal transmission



| Part numbers |                | Side 1 |           |                                   | Side 2 | Cable  |            | IP-Protection         |  |  |  |  |
|--------------|----------------|--------|-----------|-----------------------------------|--------|--------|------------|-----------------------|--|--|--|--|
|              |                | Gender | Insert    | Locking                           |        | Jacket | Type (mm²) |                       |  |  |  |  |
| Power        | 33500100201XXX | Female | 3+PE      | Single locking lever <sup>1</sup> | -      | PVC    | 4G2.5      | IP 65                 |  |  |  |  |
|              | 33500200201XXX | Male   |           | Snap-In Latch                     | -      |        |            |                       |  |  |  |  |
|              | 33500300201XXX | Female |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33500400201XXX | Male   |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33500500202XXX | Female | 3+PE+Shld | Single locking lever <sup>1</sup> | -      | PVC    | 4G1.5+Shld |                       |  |  |  |  |
|              | 33500600202XXX | Male   |           | Snap-In Latch                     | -      |        |            |                       |  |  |  |  |
|              | 33500700202XXX | Female |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33500800202XXX | Male   |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33500900203XXX | Female | 5+PE      | Single locking lever <sup>1</sup> | -      | PVC    | 6G1.5      |                       |  |  |  |  |
|              | 33501000203XXX | Male   |           | Snap-In Latch                     | -      |        |            |                       |  |  |  |  |
|              | 33501100203XXX | Female |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33501200203XXX | Male   |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33400100202XXX | Female | 3+PE      | Single locking lever <sup>1</sup> | -      | PVC    | 4G2.5      | IP 66/67 <sup>2</sup> |  |  |  |  |
|              | 33400200202XXX | Male   |           | Snap-In Latch                     | -      |        |            |                       |  |  |  |  |
|              | 33400300202XXX | Female |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33400400202XXX | Male   |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33400500201XXX | Female | 5+PE      | Single locking lever <sup>1</sup> | -      |        | 6G1.5      |                       |  |  |  |  |
|              | 33400600201XXX | Male   |           | Snap-In Latch                     | -      |        |            |                       |  |  |  |  |
|              | 33400700201XXX | Female |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33400800201XXX | Male   |           |                                   |        |        |            |                       |  |  |  |  |
| Signal       | 33501300304XXX | Female | 12 pole   | Single locking lever <sup>1</sup> | -      | PVC    | 12 x 0.34  | IP 65                 |  |  |  |  |
|              | 33501400304XXX | Male   |           | Snap-In Latch                     | -      |        |            |                       |  |  |  |  |
|              | 33501500304XXX | Female |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33501600304XXX | Male   |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33400900703XXX | Female | 12 pole   | Single locking lever <sup>1</sup> | -      | PVC    | 12 x 0,5   | IP 66/67 <sup>2</sup> |  |  |  |  |
|              | 33401000703XXX | Male   |           | Snap-In Latch                     | -      |        |            |                       |  |  |  |  |
|              | 33401100703XXX | Female |           |                                   |        |        |            |                       |  |  |  |  |
|              | 33401200703XXX | Male   |           |                                   |        |        |            |                       |  |  |  |  |

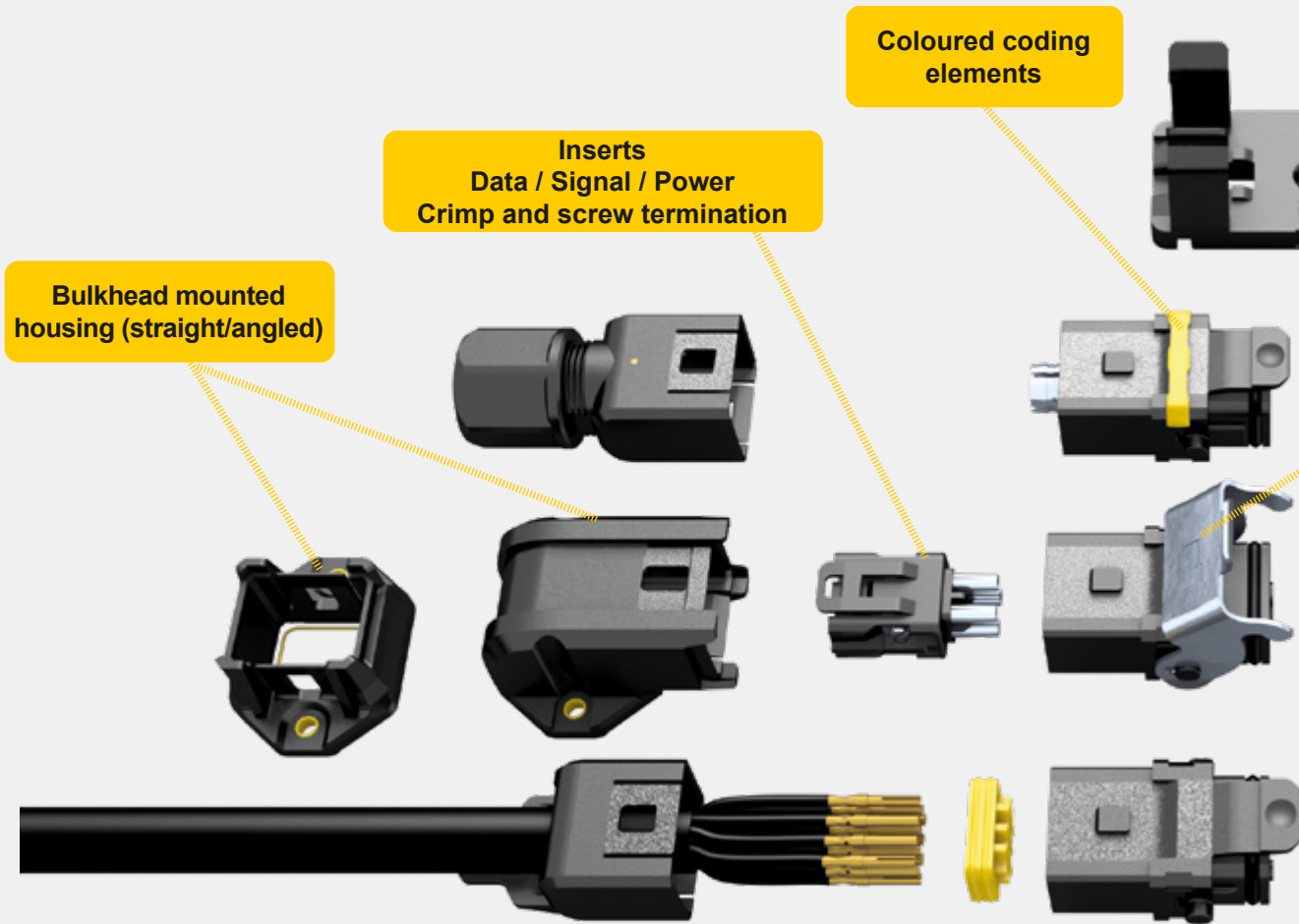
<sup>1</sup>metal lever needs to be ordered separately (part no. 09 10 000 5200)

<sup>2</sup>cable to cable position

| Standard length |             |             |            |
|-----------------|-------------|-------------|------------|
| 010 = 1.0 m     | 030 = 3.0 m | 050 = 5.0 m | 100 = 10 m |

## Your configuration:

The right connectivity solution for every application!



### Light weight

Thanks to the used material the Han® 1A has a weight advantage in comparison to connectors that are e.g. made of metal.



### Shock and vibration resistant

The Han® 1A product series provides a high reliable connection even under shock and vibration conditions.



### Versatile concept

Build your own connectivity solution by using the modularity advantage of the Han® 1A with inserts covering power, signal and data transmission. Together with all accessory parts the Han® 1A is a very flexible system usable for a broad range of applications.



### Time saving

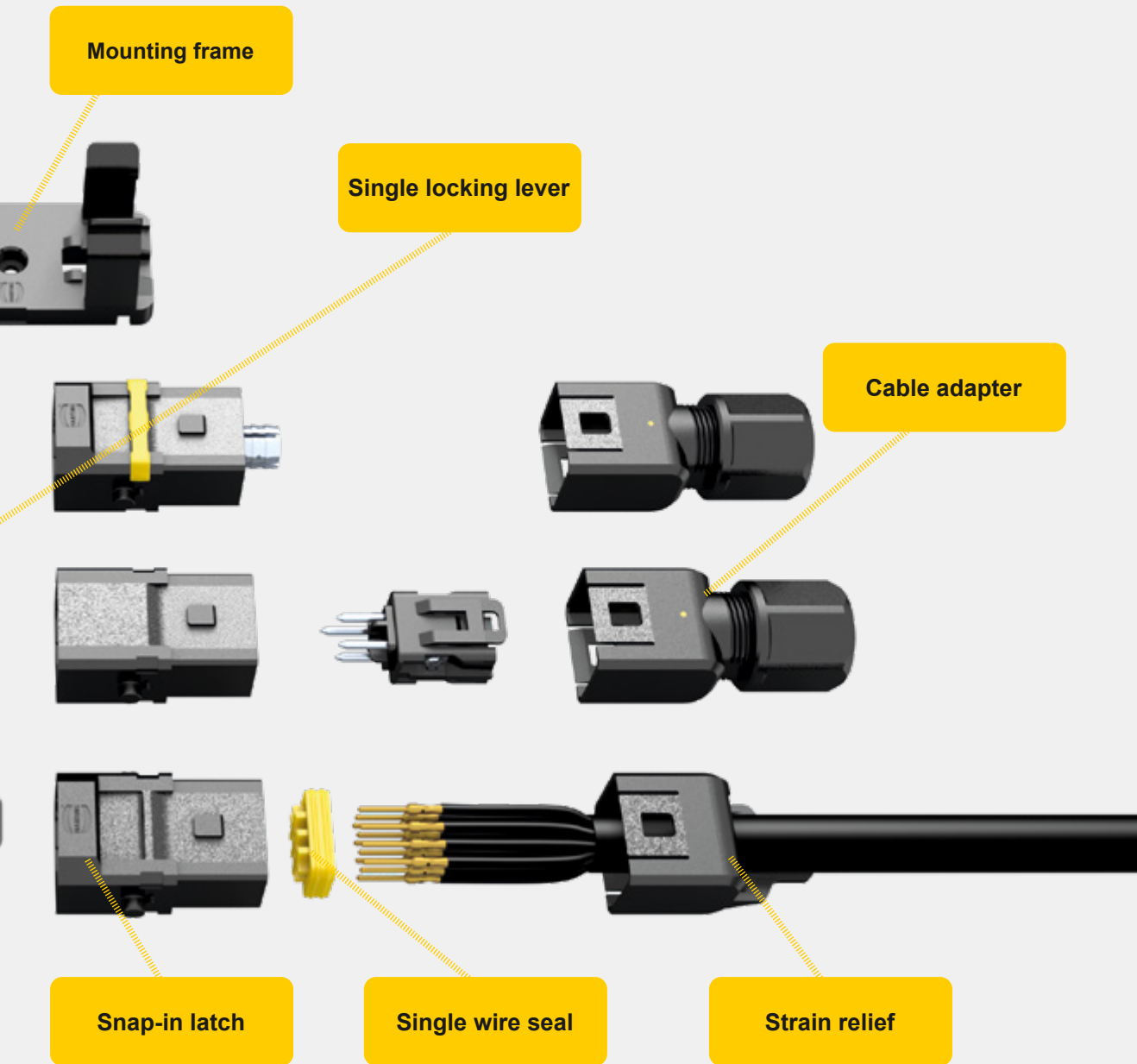
Due to the easy mate and click design of all single components the assembly of the connector is done within seconds – and there are no tools needed.



### Space saving

The Han® 1A components are designed to fulfil the trend of miniaturisation – while being still a robust Han® connector also for harsh environments.

# Description of the Han® 1A System



**Chemical resistance**  
Although the Han® 1A is made of plastic, the connector is resistant to chemicals and other aggressive influences.



**Cost saving**  
Limited storage costs due to a versatile system – almost unlimited combinations possible.



**Data transmission up to Cat. 6A**  
The modularity of the new connector offers a complete system which also includes the possibility of highspeed data transmission.



**IP protected where needed**  
By usage of hood and housing elements or single wire seals IP65 protection degree can be realised in an easy way.

Technical characteristics

Material characteristics

|                                                  |                                                                |
|--------------------------------------------------|----------------------------------------------------------------|
| Material (insert, hood, housing)                 | Polyamide, TPE                                                 |
| Material seal                                    | NBR                                                            |
| Material single wire seal                        | Silicone                                                       |
|                                                  | Halogen free                                                   |
|                                                  | High chemical resistance                                       |
|                                                  | V-0                                                            |
| Flammability UL94                                |                                                                |
| Fire protection on railway vehicles (EN 45545-2) | R22: HL1, HL2, HL3<br>R23: HL1, HL2, HL3<br>R24: HL1, HL2, HL3 |
| Limiting temperatures                            | -30 ... +90 °C                                                 |

Mechanical characteristics

|                                |                     |
|--------------------------------|---------------------|
| Mating cycles                  |                     |
| With snap-in latch             | ≥ 100               |
| With metal locking lever       | ≥ 100               |
| Shock and vibration (EN 61373) | Cat. 1 <sub>B</sub> |
| IP protection                  | IP20 - IP65         |

Inserts

|        |                             |
|--------|-----------------------------|
| Signal | Up to 12 pole               |
| Power  | Up to 16 A                  |
| Data   | Cat. 5; Cat. 6 <sub>A</sub> |

Approvals

|        |                                                               |
|--------|---------------------------------------------------------------|
| UL/CSA | UL 1977 ECBT2.E235076<br>CSA-C22.2 No. 182.3<br>ECBT8.E235076 |
|--------|---------------------------------------------------------------|

Please contact your local HARTING Subsidiary for further information.



Locking mechanism with snap-in latch or robust metal locking lever.

Locking lever needs to be ordered separately.



IP65 protection by single wire seal.

Single wire seal for IP 65 protection is not required if a cable adapter (09 10 000 0400) or a bulkhead mounted housing (09 10 000 0300 / 09 10 000 0800) is used.

General information:

It is the customer's responsibility to check whether the components illustrated in this catalogue also comply with different regulations from those stated in special fields of applications. We reserve the right to modify designs or substance of content in order to improve quality, keep pace with technological advancement or meet particular requirements in production. No part of this catalogue may be reproduced in any form (print, photocopy, microfilm or any other process) or pro-cessed, duplicated or distributed by means of electronic systems without the prior written consent of HARTING Electric GmbH & Co. KG, Espelkamp.



- Door systems and ramps
- Illumination
- Headlights
- Speakers
- Indicating lights
- Warning lights
- Screens
- Door opener
- Push buttons
- Buzzers
- Windscreen wiper systems



- Battery storage systems
- Solar inverters
- Power plant control systems and cabinets
- Power generator sets
- Sensors



- Tower lighting
- Emergency stops
- Sensors
- Indicating sounds
- Ventilators



- Heater
- Fans
- Control terminals
- Industrial lighting
- Small drives
- Vibratory conveyors
- Connections inside cabinets





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