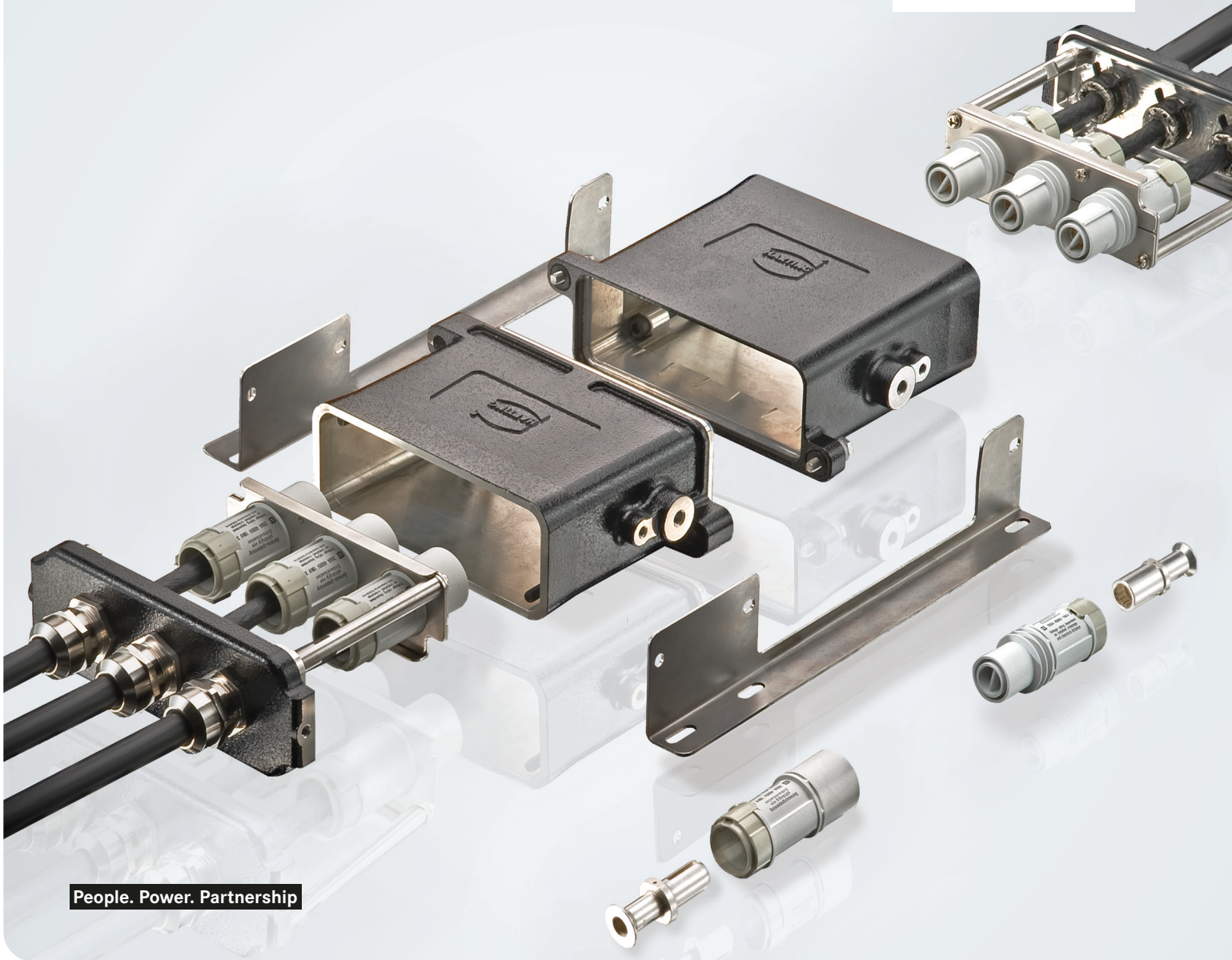




Pushing Performance  
Since 1945



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## Han<sup>®</sup> HC Modular with Han<sup>®</sup> HPR Product overview and assembly options

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# General information

## Fields of application

HARTING Industrial Connectors are applicable in a wide variety of electronic and electrical applications. The degree of protection of all hoods and housings is in accordance with International Standard IEC 60 529, EN 60 529:

- Power Utilities
- Industrial Instrumentation
- Robotics
- Conveyor Equipment
- Chemical Plants
- Transportation
- Machine Tool Controls
- Injection Moulding
- and many more



Certified according to EN ISO 9001 in design/  
development, production, installation and  
servicing

## Specifications

DIN EN 60 664-1 (VDE 0110-1) – Principles, requirements and tests

DIN EN 61 984 (VDE 0627) – Connectors, safety requirements and tests

## Note

The connectors included in this catalogue should not be mated or unmated under electrical load unless otherwise stated. The connector must not be powered-up in the unmated condition. This is also true if the connector is closed with a protection cover, unless otherwise stated.

The provision of protection against electric shock is the responsibility of the user. Protection can be achieved by the use of HARTING hoods and housings coupled with/or alternatively appropriate installation methods provided by the user.

The female connector in a HARTING hood or housing offers finger safe protection according to relevant standards for the mating face, even in the unmated condition, unless otherwise stated.

Connectors of the same or different series that are mounted one next another can be protected against incorrect mating by using coding options.

## General information

It is the user's responsibility to check whether the components illustrated in this catalogue comply with different regulations from those stated in special fields of application which we are unable to foresee. We reserve the right to modify Assemblies in order to improve quality, keep pace with technological advancement or meet particular requirements in production.

## Imprint

Title: Han® HC Modular with Han® HPR – Product overview and assembly options

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Author: HARTING

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# Han® HC Modular 250 with Han® HPR

## Technical characteristics

| Hoods & housings                              |  |
|---|--|
| Material:                                     | Aluminum die cast, corrosion resistant |
| Surface:                                      | Epoxy powder paint, black              |
| Material locking element:                     | Stainless steel                        |
| Size locking element:                         | M6                                     |
| Tightening torque locking element:            | 4 Nm                                   |
| Material seal:                                | NBR                                    |
| Limiting temperatures:                        | -40 °C... +125 °C                      |
| Corrosion resistance:                         | 500 h acc. to ASTM B117-09             |
| Degree of protection (for coupled connector): | IP68 / IP69K                           |
| Frames  |  |
| Material:                                     | Stainless steel                        |
| Tightening torque fixing screws (M3):         | 0.5 Nm                                 |
| Tightening torque fixing screws (M6):         | 10 Nm                                  |
| Mounting frames                               |  |
| Material:                                     | Aluminum die cast, corrosion resistant |
| Surface:                                      | without                                |
| Tightening torque for fixing holes (M6):      | 10 Nm                                  |
| Inserts                                       |  |
| Material:                                     | Polycarbonate                          |
| Rated voltage:                                | 2000 V                                 |
| Rated impulse voltage:                        | 12 kV                                  |
| Pollution degree:                             | 3                                      |
| Insulation resistance:                        | ≥ 10 <sup>10</sup> Ω                   |
| Limiting temperatures:                        | -40 °C... +125 °C                      |
| Flammability acc. to UL 94:                   | V-0                                    |
| Mechanical working life:                      | ≥ 500 mating cycles                    |

| Crimp contacts                        |                     |              |                  |                                  |
|---------------------------------------|---------------------|--------------|------------------|----------------------------------|
| Material:                             | Copper alloy        |              |                  |                                  |
| Surface:                              | Silver              |              |                  |                                  |
| Rated current:                        | 250 A               |              |                  |                                  |
| Contact resistance:                   | ≤ 0.3 mΩ            |              |                  |                                  |
| Stranded wires acc. to IEC 60228:     | Class 5             |              |                  |                                  |
| Max. insulation diameter of cable:    | 18 mm               |              |                  |                                  |
| Mechanical working life:              | ≥ 500 mating cycles |              |                  |                                  |
| Crimp zone<br><br>(acc. to DIN 46235) | Cross-section       | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46235 |
|                                       | 10 mm <sup>2</sup>  | 4.3 mm       | 22.0 mm          | 6                                |
|                                       | 16 mm <sup>2</sup>  | 5.5 mm       | 22.0 mm          | 8                                |
|                                       | 25 mm <sup>2</sup>  | 7.0 mm       | 22.0 mm          | 10                               |
|                                       | 35 mm <sup>2</sup>  | 8.45 mm      | 22.0 mm          | 12                               |
|                                       | 50 mm <sup>2</sup>  | 10.25 mm     | 22.0 mm          | 14                               |
| 70 mm <sup>2</sup>                    | 11.75 mm            | 22.0 mm      | 16               |                                  |

## Tools

| Crimp tools  |                 |   |  |   |                         |  |
|--|-----------------|---|--|---|-------------------------|--|
| Pressforce 60 kN<br>- Accu hydraulic tool (09 99 000 0850)<br>- Hand hydraulic tool (09 99 000 0851) |                 |   |  | Pressforce 120 kN<br>- Accu hydraulic tool (09 99 000 0860)<br>- Hand hydraulic tool (09 99 000 0861) |                         |  |
|                     |                 |  |  |                     |                         |   |
| Cross-section  | Width crimp die | Double crimp necessary?   | Part number crimp die  | Width crimp die   | Double crimp necessary? | Part number crimp die  |
|  |                 |   |  |   |                         |  |
| 10 mm <sup>2</sup>   | 9 mm            | No  | 09 99 000 0852   | 10 mm   | No                      | 09 99 000 0862   |
| 16 mm <sup>2</sup>   | 9 mm            | No  | 09 99 000 0853   | 10 mm   | No                      | 09 99 000 0863   |
| 25 mm <sup>2</sup>   | 9 mm            | No  | 09 99 000 0854   | 10 mm   | No                      | 09 99 000 0864   |
| 35 mm <sup>2</sup>   | 9 mm            | No  | 09 99 000 0855   | 10 mm   | No                      | 09 99 000 0865   |
| 50 mm <sup>2</sup>   | 9 mm            | No  | 09 99 000 0856   | 13 mm   | No                      | 09 99 000 0866   |
| 70 mm <sup>2</sup>   | 9 mm            | No  | 09 99 000 0857   | 13 mm   | No                      | 09 99 000 0867   |

Removal tool



09 99 000 0332

## Accessories

Cover for housing



09 40 024 5411

Cover for hood



09 40 024 5414

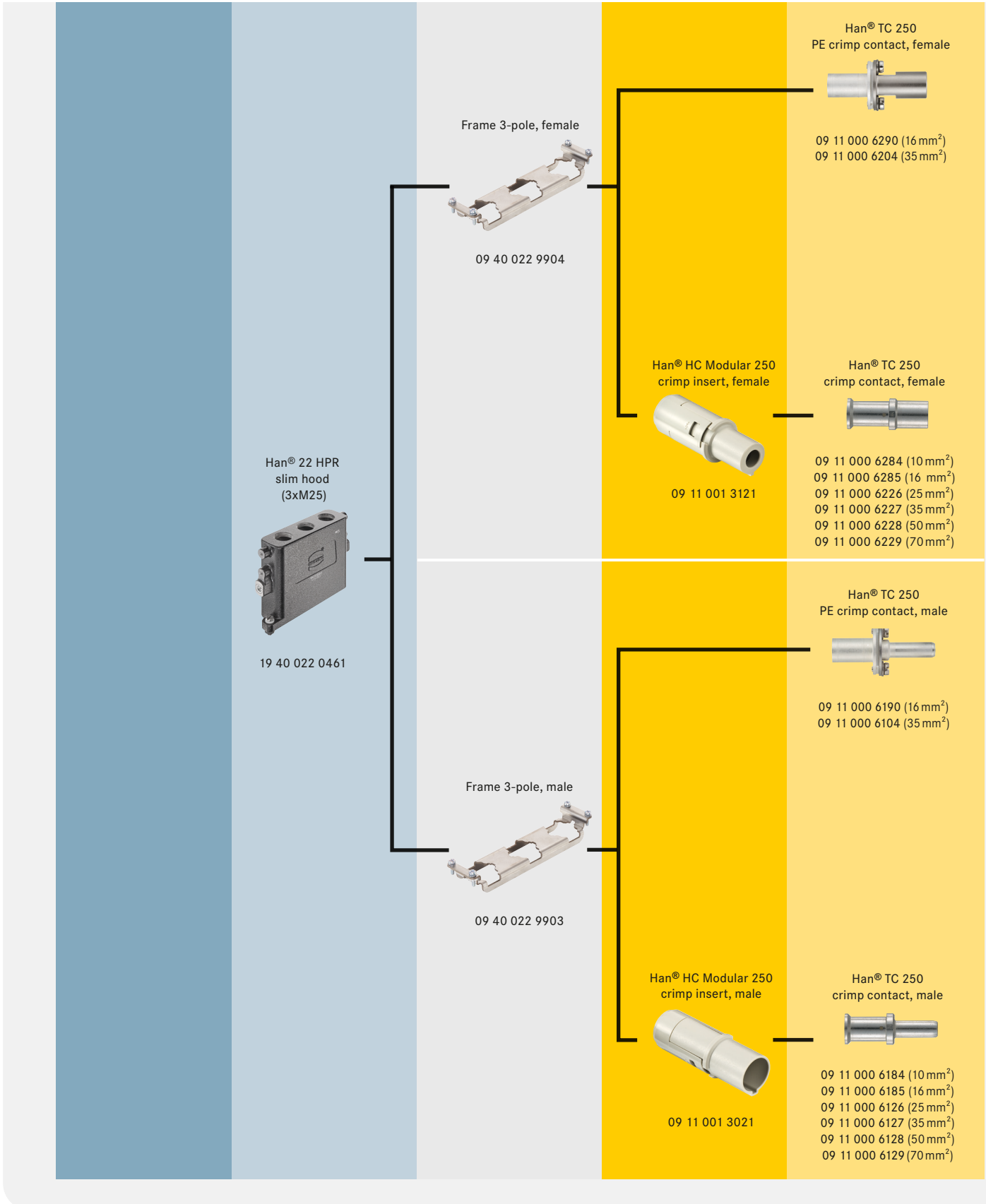
Mounting panel long version

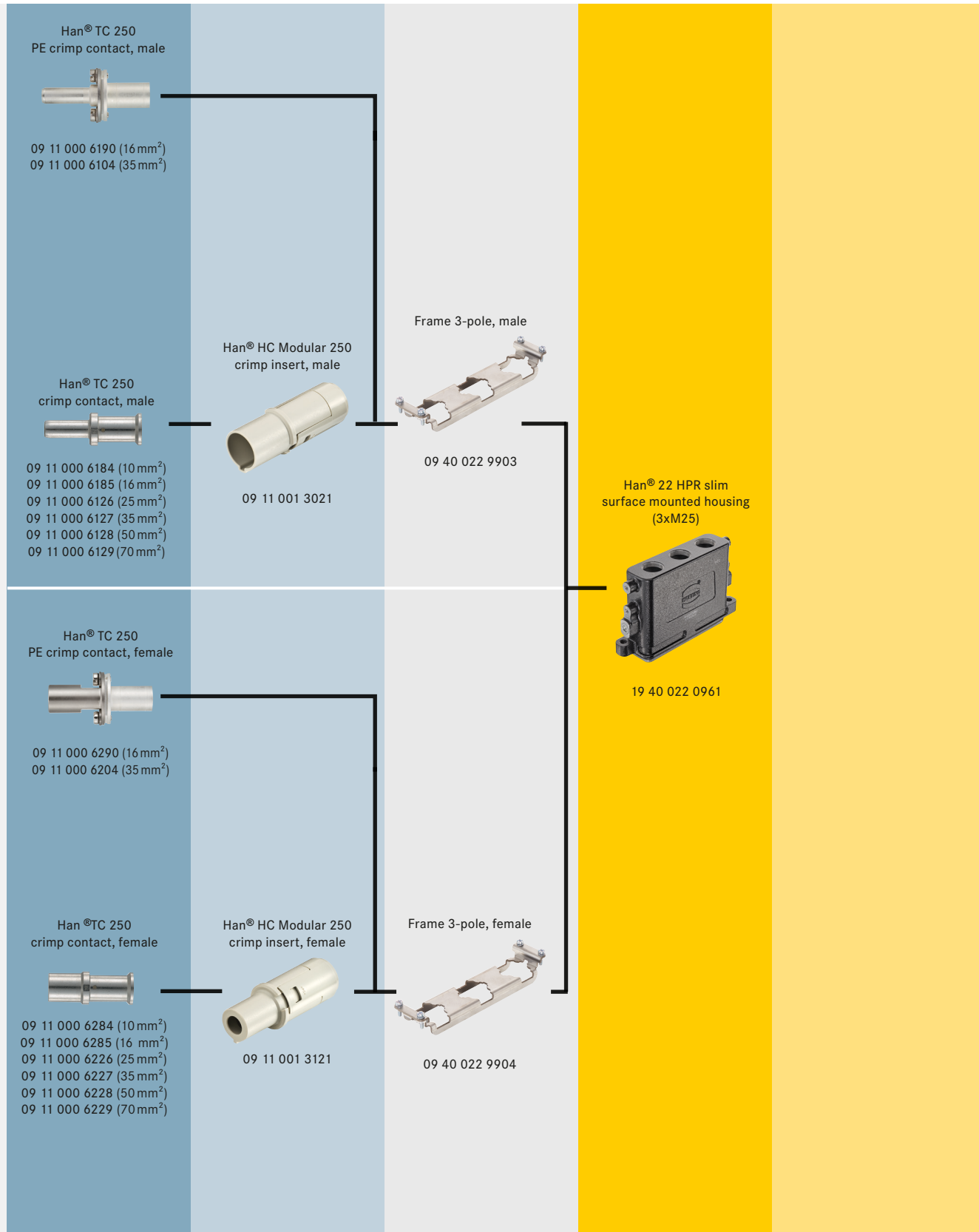


09 40 022 9920 (Han® 22 HPR slim)

# Assembly options

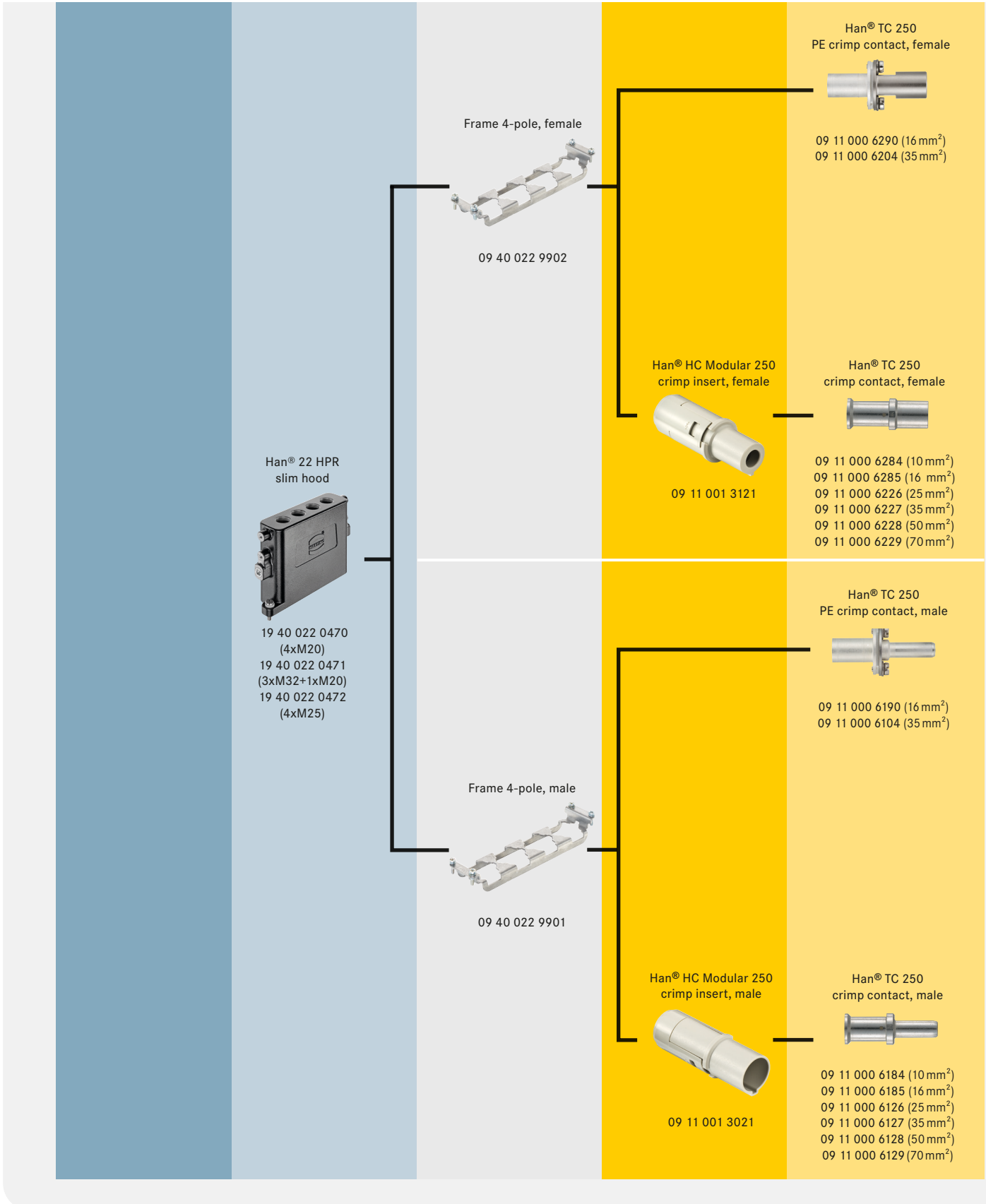
## Han® HC Modular 250, 3-pole, with Han® 22 HPR slim



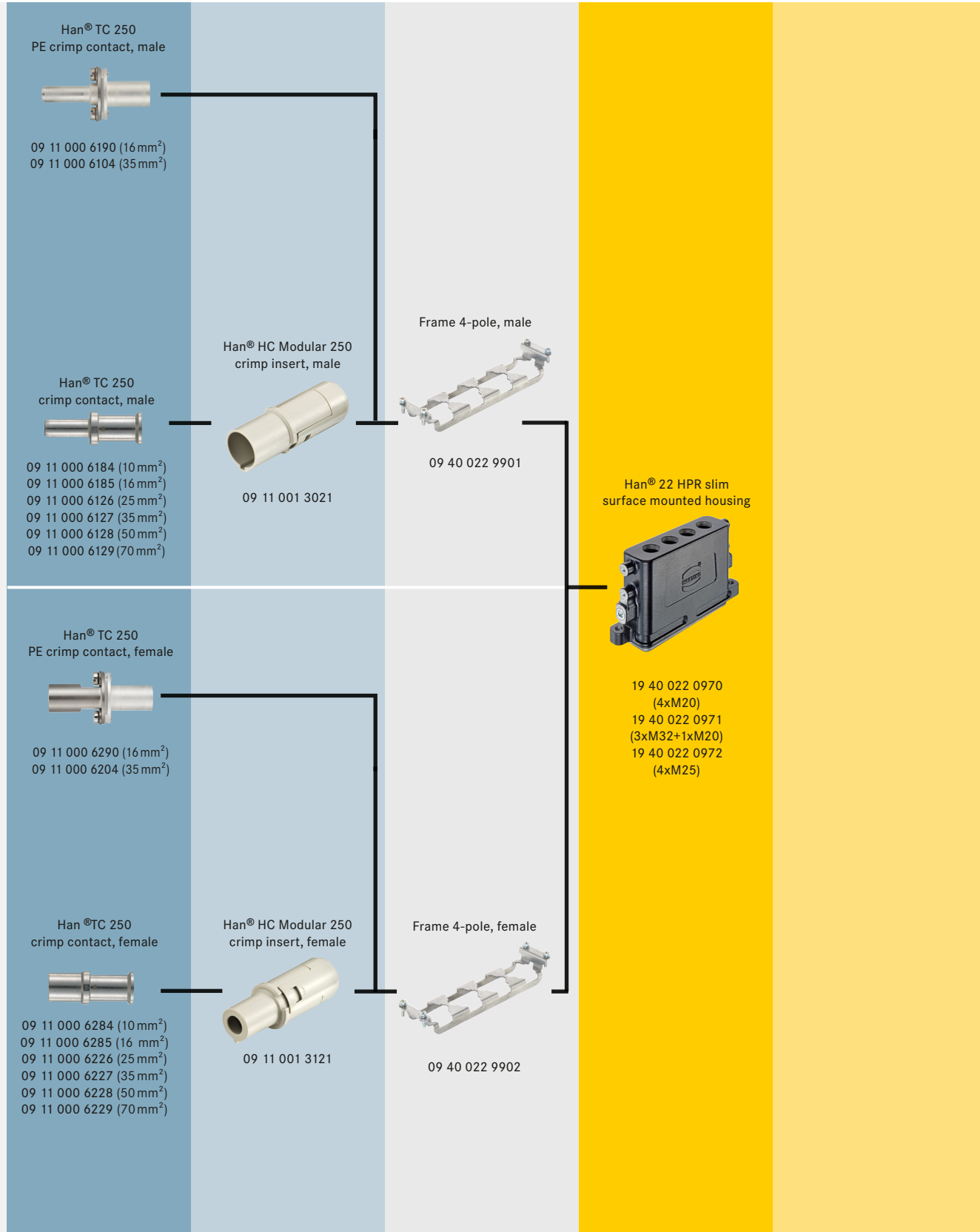


# Assembly options

## Han® HC Modular 250, 4-pole, with Han® 22 HPR slim

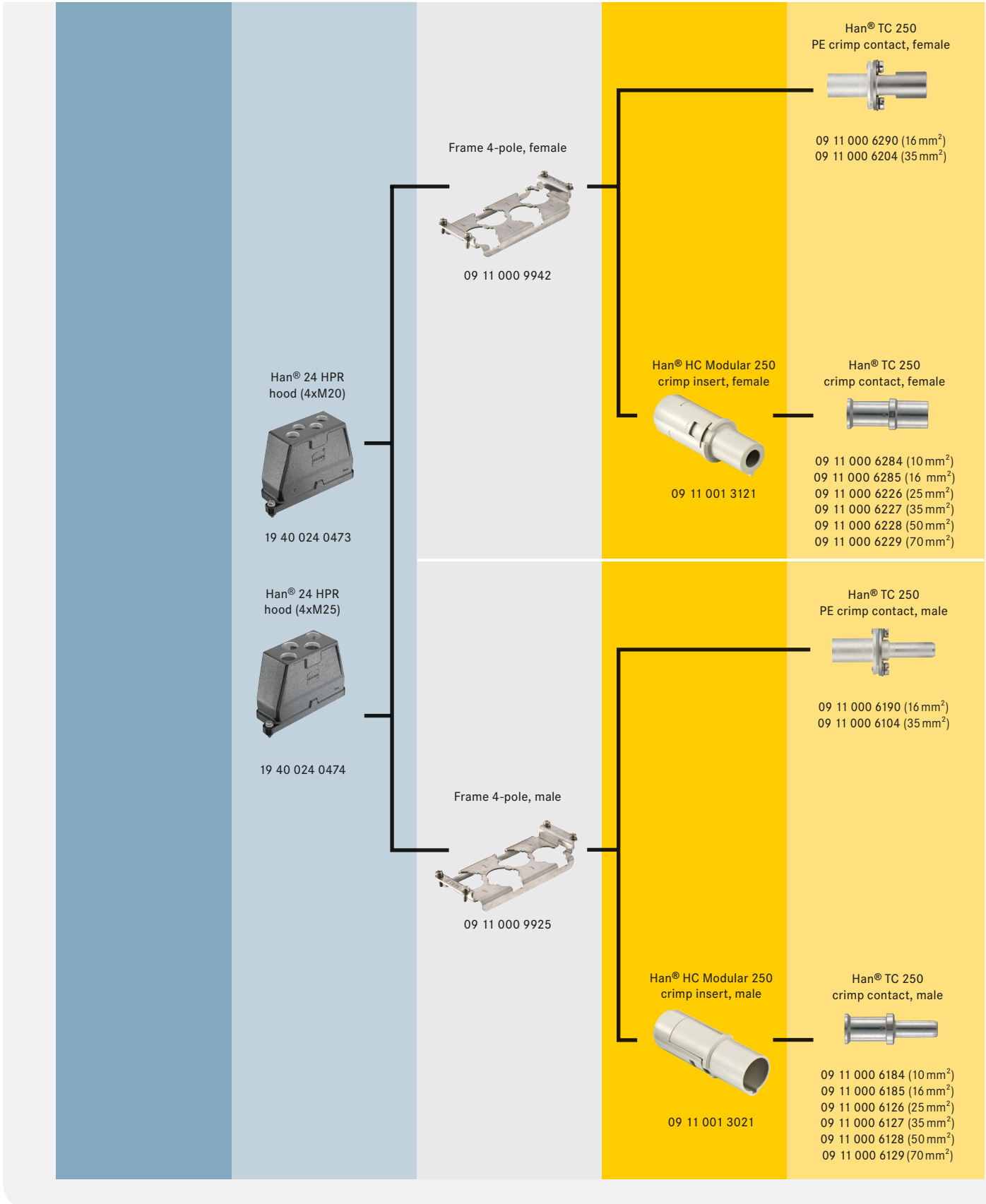


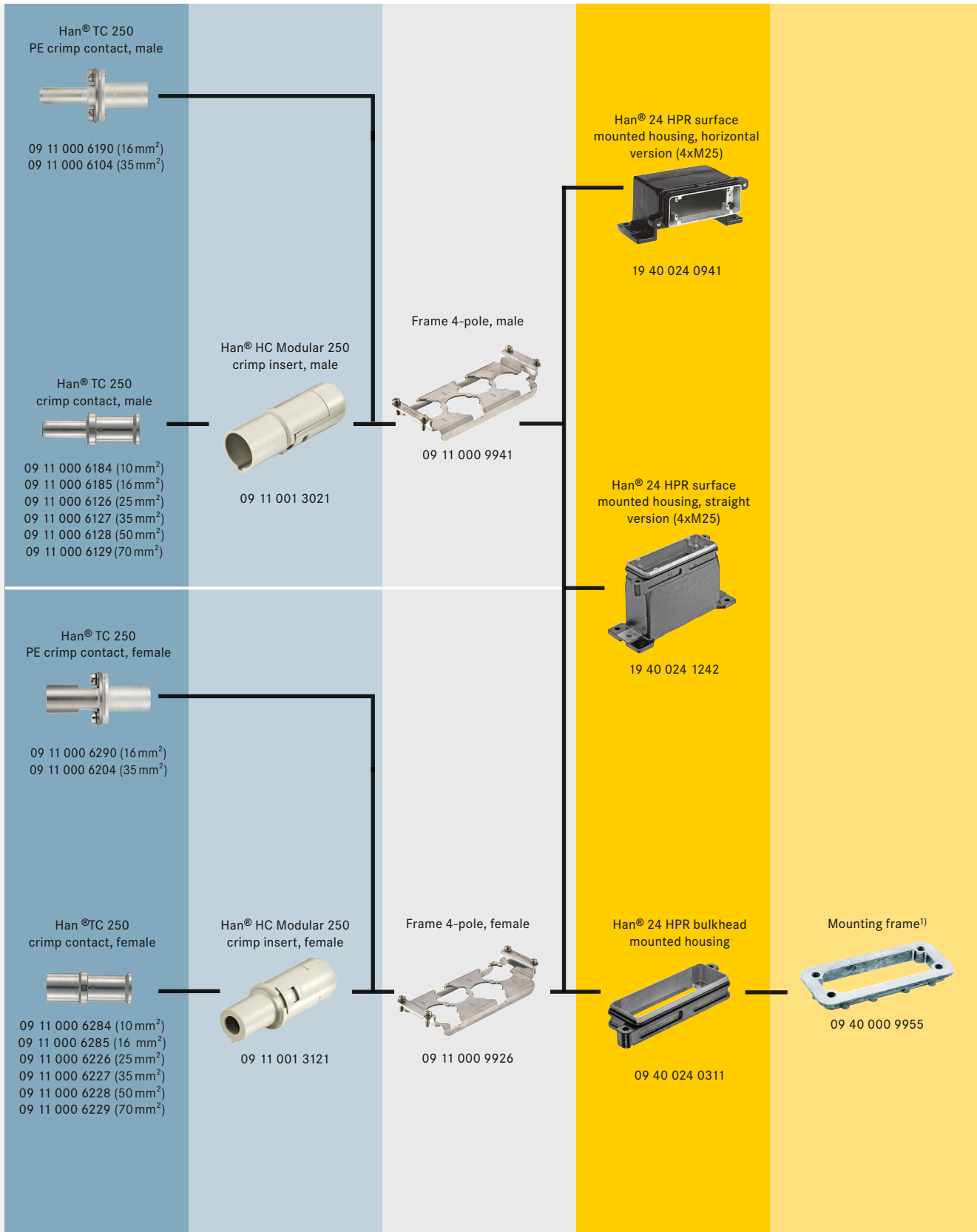




# Assembly options

## Han® HC Modular 250, 4-pole, with Han® 24 HPR





<sup>1)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Han® HC Modular 250 with Han® HPR enlarged

## Technical characteristics

| Hoods & housings                              |  |
|---|--|
| Material:                                     | Aluminum die cast, corrosion resistant |
| Surface:                                      | Epoxy powder paint, black              |
| Material locking element:                     | Stainless steel                        |
| Size locking element:                         | M6                                     |
| Tightening torque locking element:            | 4 Nm                                   |
| Material seal:                                | NBR                                    |
| Limiting temperatures:                        | -40 °C...+125 °C                       |
| Corrosion resistance:                         | 500 h acc. to ASTM B117-09             |
| Degree of protection (for coupled connector): | IP68 / IP69K                           |
| Frames  |  |
| Material:                                     | Stainless steel                        |
| Tightening torque fixing screws (M6):         | 10 Nm                                  |
| Mounting frames                               |  |
| Material:                                     | Aluminum die cast, corrosion resistant |
| Surface:                                      | without                                |
| Tightening torque for fixing holes (M6):      | 10 Nm                                  |
| Inserts                                       |  |
| Material:                                     | Polycarbonate                          |
| Rated voltage:                                | 2000 V                                 |
| Rated impulse voltage:                        | 12 kV                                  |
| Pollution degree:                             | 3                                      |
| Insulation resistance:                        | ≥ 10 <sup>10</sup> Ω                   |
| Limiting temperatures:                        | -40 °C... +125 °C                      |
| Flammability acc. to UL 94:                   | V-0                                    |
| Mechanical working life:                      | ≥ 500 mating cycles                    |

| Crimp contacts                     |                     |              |                  |                                   |
|------------------------------------|---------------------|--------------|------------------|-----------------------------------|
| Material:                          | Copper alloy        |              |                  |                                   |
| Surface:                           | Silver              |              |                  |                                   |
| Rated current:                     | 250 A               |              |                  |                                   |
| Contact resistance:                | ≤ 0.3 mΩ            |              |                  |                                   |
| Stranded wires acc. to IEC 60 228: | Class 5             |              |                  |                                   |
| Max. insulation diameter of cable: | 18 mm               |              |                  |                                   |
| Mechanical working life:           | ≥ 500 mating cycles |              |                  |                                   |
| Crimp zone<br>(acc. to DIN 46 235) | Cross-section       | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46 235 |
|                                    | 10 mm <sup>2</sup>  | 4.3 mm       | 22.0 mm          | 6                                 |
|                                    | 16 mm <sup>2</sup>  | 5.5 mm       | 22.0 mm          | 8                                 |
|                                    | 25 mm <sup>2</sup>  | 7.0 mm       | 22.0 mm          | 10                                |
|                                    | 35 mm <sup>2</sup>  | 8.45 mm      | 22.0 mm          | 12                                |
|                                    | 50 mm <sup>2</sup>  | 10.25 mm     | 22.0 mm          | 14                                |
| 70 mm <sup>2</sup>                 | 11.75 mm            | 22.0 mm      | 16               |                                   |

## Tools

| Crimp tools  |                 |                         |  |   |                         |  |
|--|-----------------|-------------------------|--|---|-------------------------|--|
| Pressforce 60 kN<br>- Accu hydraulic tool (09 99 000 0850)<br>- Hand hydraulic tool (09 99 000 0851) |                 |                         |  | Pressforce 120 kN<br>- Accu hydraulic tool (09 99 000 0860)<br>- Hand hydraulic tool (09 99 000 0861) |                         |  |
|                     |                 |                         |  |                     |                         |  |
| Cross-section  | Width crimp die | Double crimp necessary? | Part number crimp die  | Width crimp die   | Double crimp necessary? | Part number crimp die  |
|  |                 |                         |  |   |                         |  |
| 10 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0852   | 10 mm   | No                      | 09 99 000 0862   |
| 16 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0853   | 10 mm   | No                      | 09 99 000 0863   |
| 25 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0854   | 10 mm   | No                      | 09 99 000 0864   |
| 35 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0855   | 10 mm   | No                      | 09 99 000 0865   |
| 50 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0856   | 13 mm   | No                      | 09 99 000 0866   |
| 70 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0857   | 13 mm   | No                      | 09 99 000 0867   |

Removal tool



09 99 000 0332


## Accessories

Cover for housing



09 40 024 5411 (for Han® 24 HPR)  
09 40 016 5411 (for Han® 16 HPR)

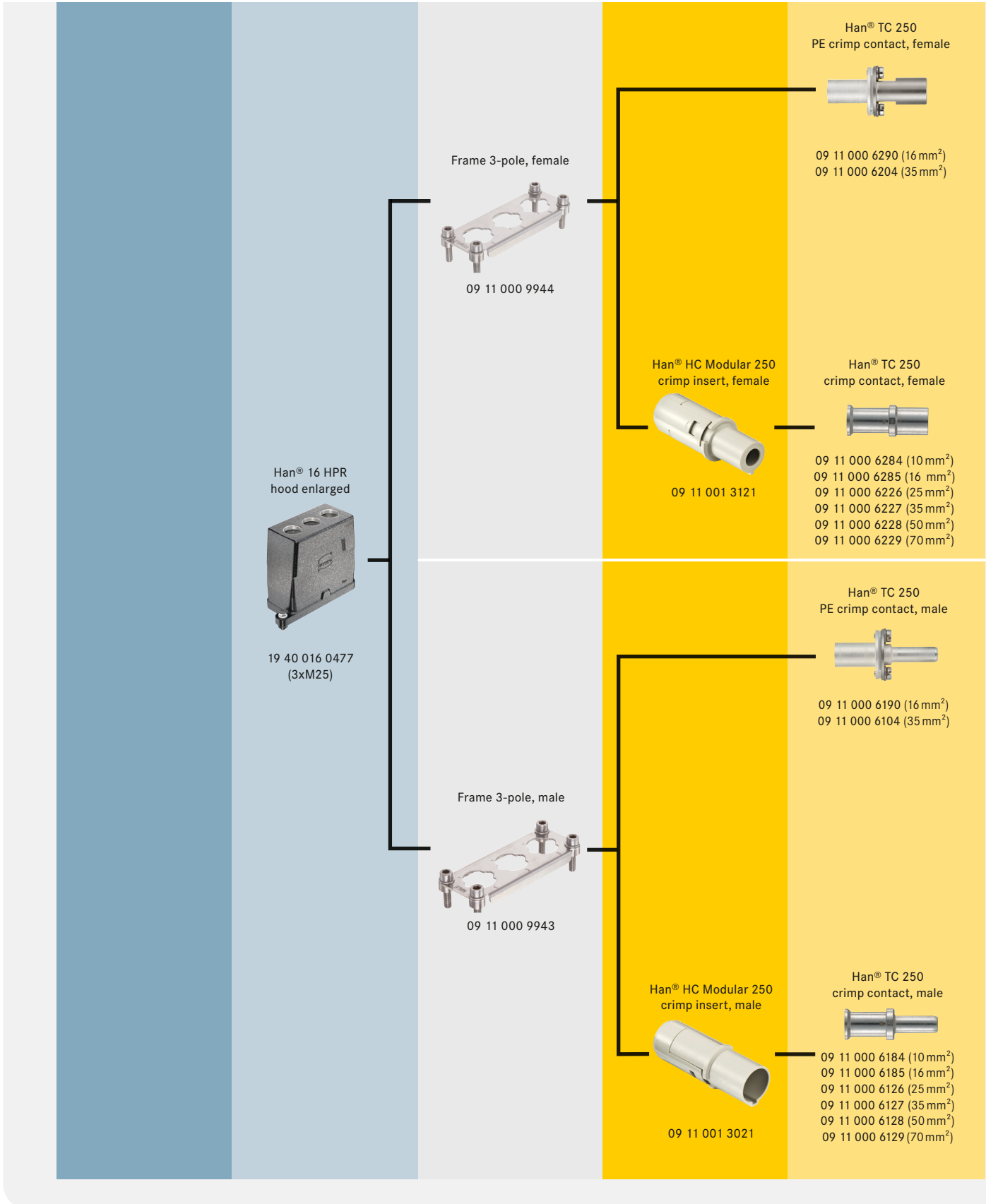
Cover for hood

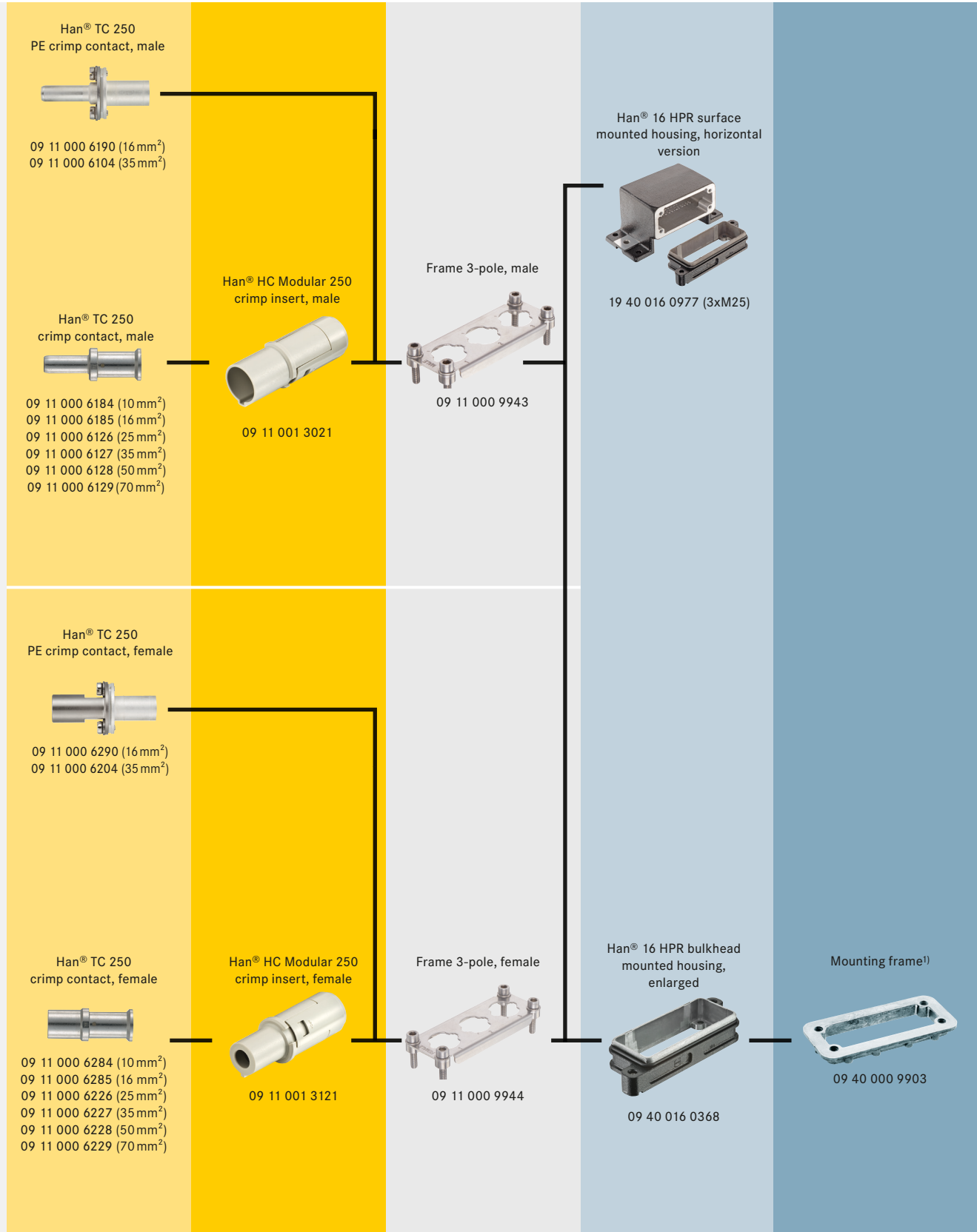


09 40 024 5414 (for Han® 24 HPR)  
09 40 016 5414 (for Han® 16 HPR)

# Assembly options

## Han® HC Modular 250, 3-pole, with Han® 16 HPR enlarged

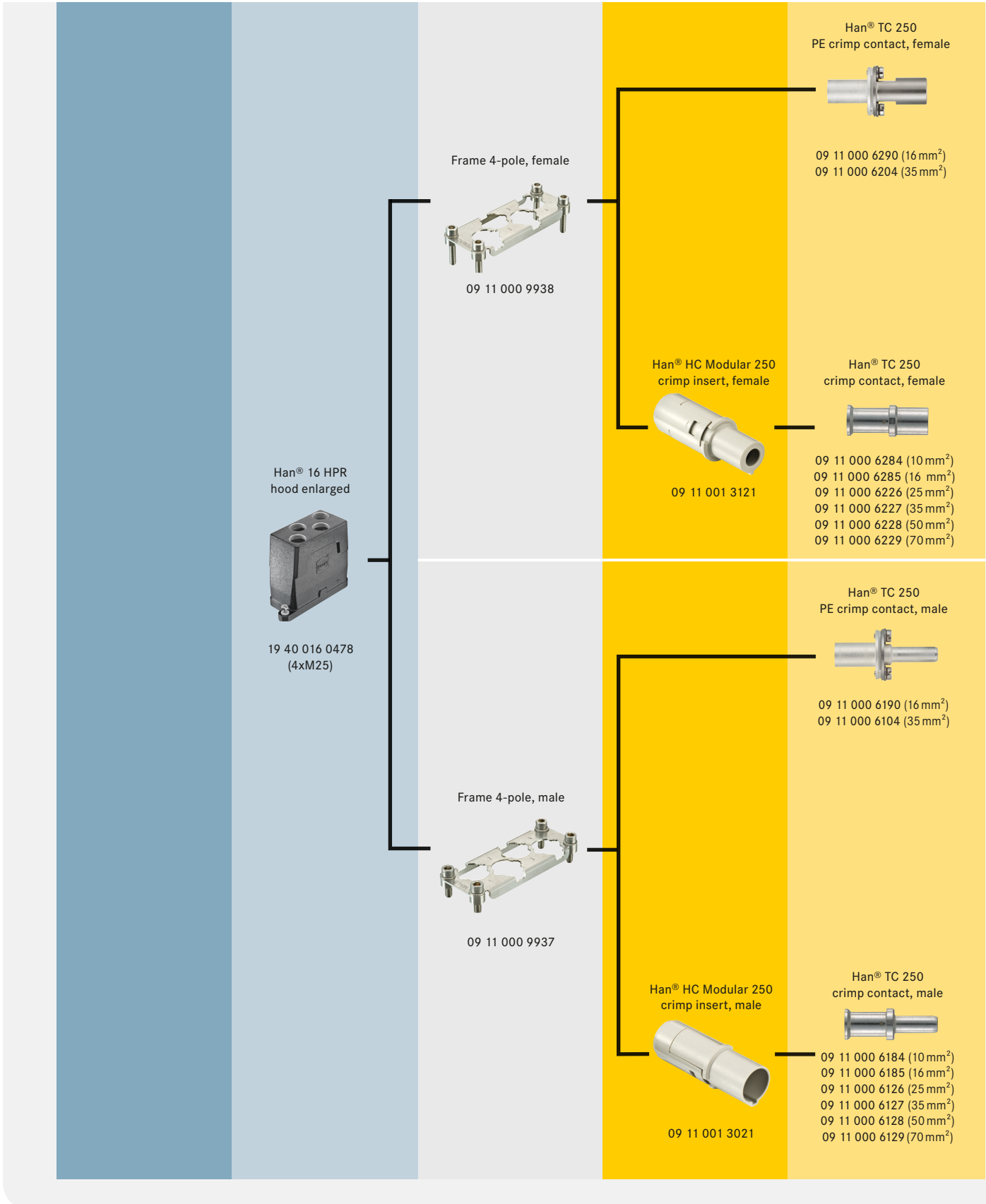




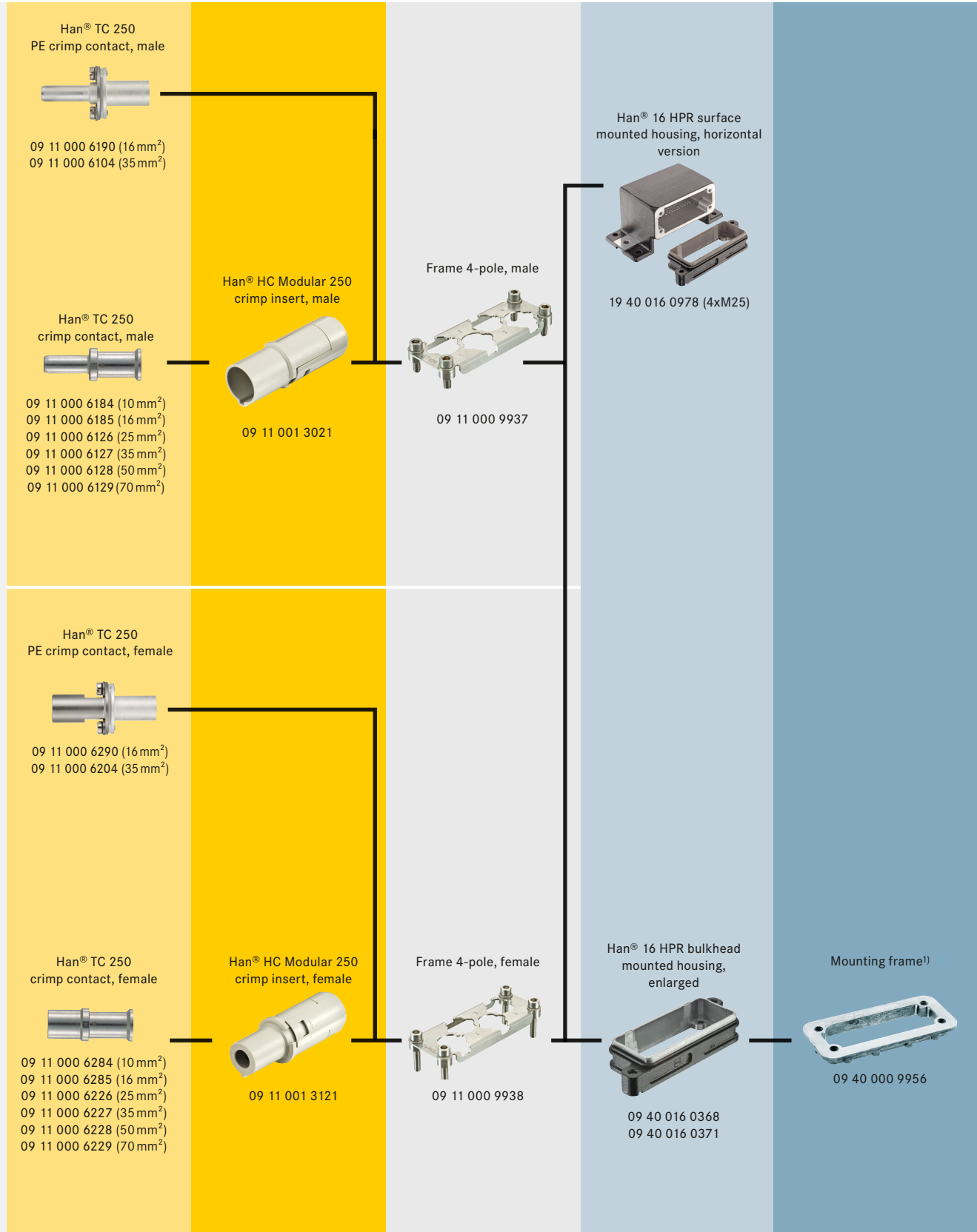
<sup>1)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 250, 4-pole, with Han® 16 HPR enlarged



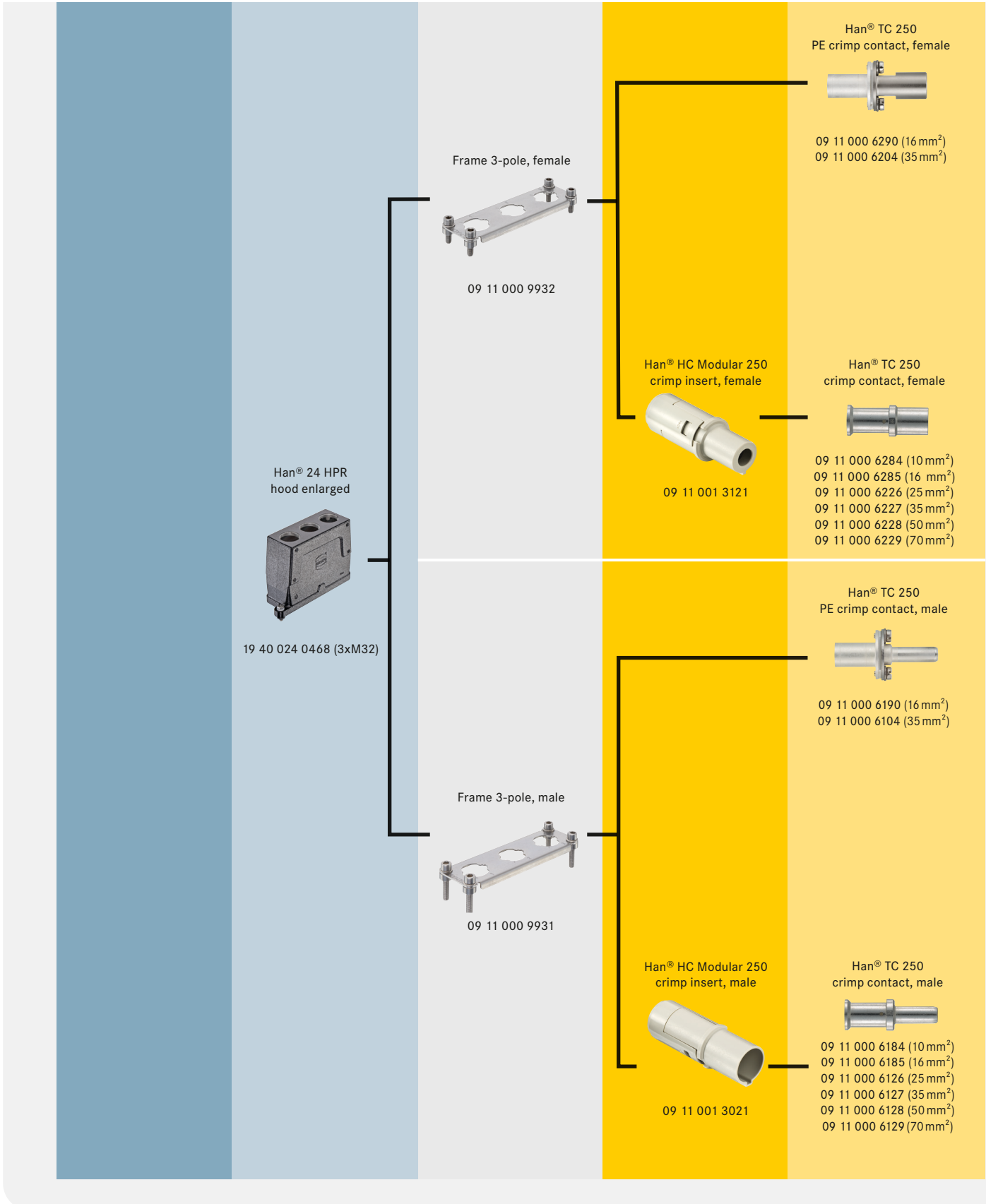


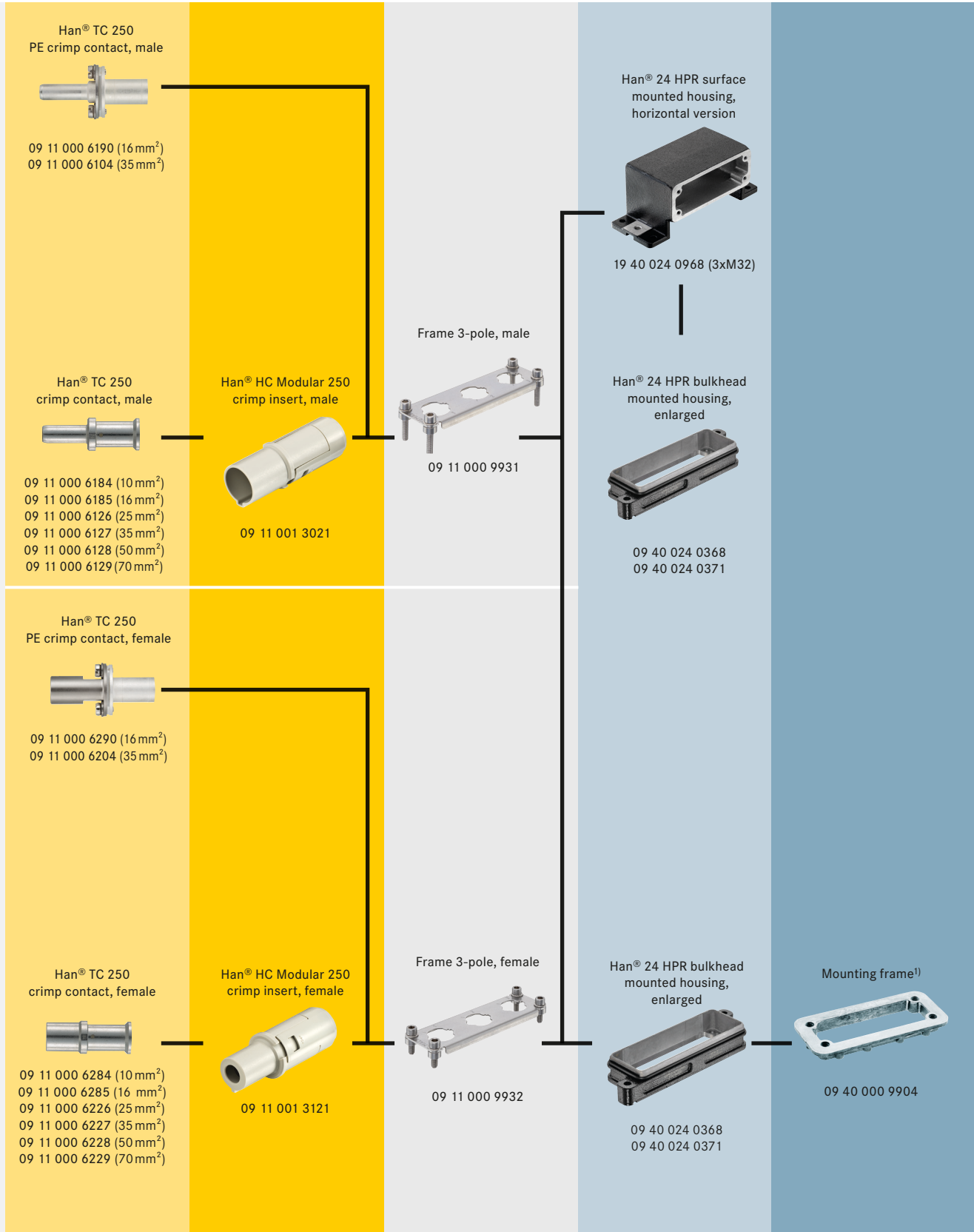


<sup>1)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

## Assembly options

### Han® HC Modular 250, 3-pole with Han® 24 HPR enlarged

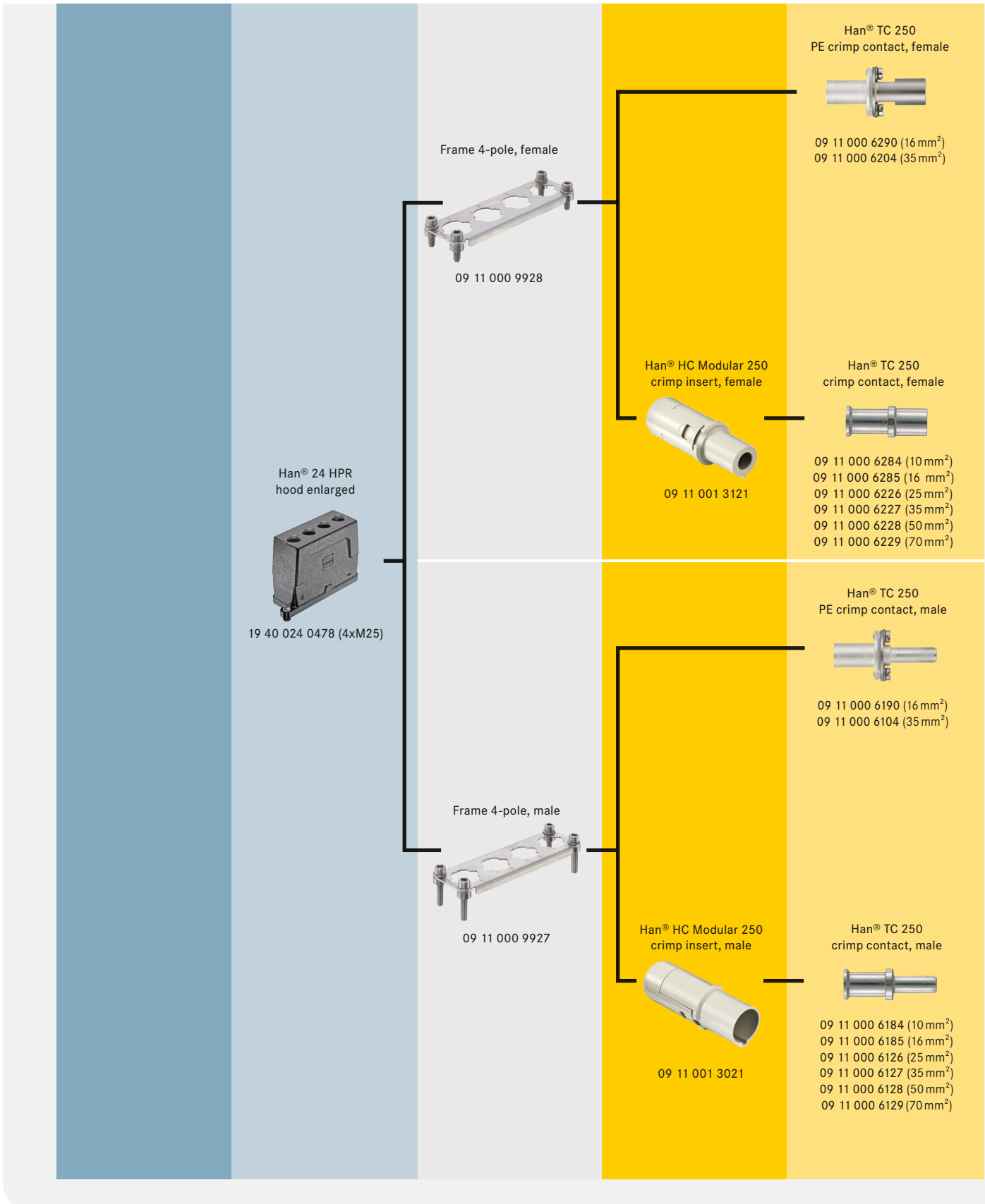


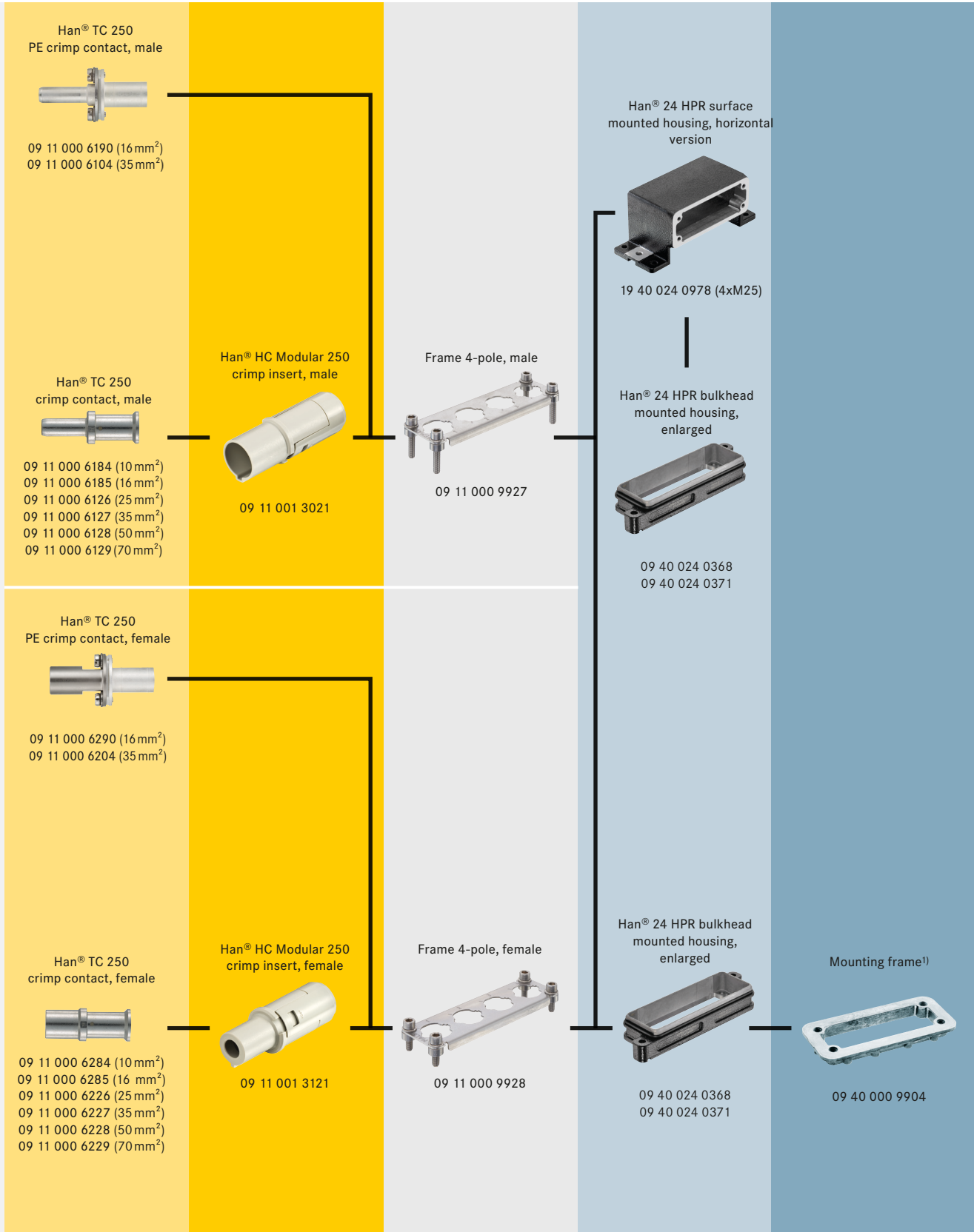


<sup>1)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

## Assembly options

### Han® HC Modular 250, 4-pole, with Han® 24 HPR enlarged





<sup>1)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Han® HC Modular 250 with Han® HPR EasyCon

## Technical characteristics

| Hoods, housings and covers                       |  |
|--|--|
| Material:  | Aluminum die cast, corrosion resistant         |
| Surface:   | Epoxy powder paint, black                      |
| Material locking element:                        | Stainless steel                                |
| Size locking element:                            | M6   |
| Tightening torque locking element:               | 4 Nm   |
| Tightening torque fixing screws for covers (M6): | 6 Nm   |
| Tightening torque for external PE (M8):          | 15 Nm  |
| Material seal:                                   | NBR  |
| Limiting temperatures:                           | -40 °C...+125 °C                               |
| Corrosion resistance:                            | 500 h acc. to ASTM B 117-09                    |
| Degree of protection (for coupled connector):    | IP68 / IP69K                                   |
| Frames   |  |
| Material:  | Stainless steel                                |
| Tightening torque distance bolts:                | 6 Nm   |
| Tightening torque fixing screws (M4):            | 1.5 Nm   |
| Tightening torque fixing screws (M6):            | 10 Nm  |
| Mounting panels                                  |  |
| Material:  | Stainless steel                                |
| Tightening torque for fixing holes (M6):         | 10 Nm  |
| Mounting frames                                  |  |
| Material:  | Aluminum die cast, corrosion resistant         |
| Surface:   | without  |
| Tightening torque for fixing holes (M6):         | 10 Nm  |
| Special EMC cable glands                         |  |
| Material:  | Brass  |
| Surface:   | Nickel plated                                  |
| Material seal:                                   | EPDM   |
| Material clamping cage:                          | Polyamide                                      |
| Tightening torque fitting and cab nut:           | 10 Nm (for M25 parts)<br>20 Nm (for M32 parts) |
| Material self-locking clamp:                     | Spring band steel                              |
| Surface self-locking clamp:                      | Zinc-aluminum coating + organic topcoat        |
| Inserts  |  |
| Material:  | Polycarbonate                                  |
| Rated voltage:                                   | 2000 V   |
| Rated impulse voltage:                           | 12 kV  |
| Pollution degree:                                | 3  |
| Insulation resistance:                           | ≥ 10 <sup>10</sup> Ω                           |
| Limiting temperatures:                           | -40 °C...+125 °C                               |
| Flammability acc. to UL 94:                      | V-0  |
| Mechanical working life:                         | ≥ 500 mating cycles                            |

| Crimp contacts                     |                     |              |                  |                                   |
|------------------------------------|---------------------|--------------|------------------|-----------------------------------|
| Material:                          | Copper alloy        |              |                  |                                   |
| Surface:                           | Silver              |              |                  |                                   |
| Rated current:                     | 250 A               |              |                  |                                   |
| Contact resistance:                | ≤ 0.3 mΩ            |              |                  |                                   |
| Stranded wires acc. to IEC 60 228: | Class 5             |              |                  |                                   |
| Max. insulation diameter of cable: | 22 mm               |              |                  |                                   |
| Mechanical working life:           | ≥ 500 mating cycles |              |                  |                                   |
|                                    | Cross-section       | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46 235 |
| Crimp zone (acc. to DIN 46 235)    | 10 mm <sup>2</sup>  | 4.3 mm       | 22.0 mm          | 6                                 |
|                                    | 16 mm <sup>2</sup>  | 5.5 mm       | 22.0 mm          | 8                                 |
|                                    | 25 mm <sup>2</sup>  | 7.0 mm       | 22.0 mm          | 10                                |
|                                    | 35 mm <sup>2</sup>  | 8.45 mm      | 22.0 mm          | 12                                |
|                                    | 50 mm <sup>2</sup>  | 10.25 mm     | 22.0 mm          | 14                                |
|                                    | 70 mm <sup>2</sup>  | 11.75 mm     | 22.0 mm          | 16                                |

## Tools

| Crimp tools  |                 |                         |  |   |                         |  |
|--|-----------------|-------------------------|--|---|-------------------------|--|
| Pressforce 60 kN<br>- Accu hydraulic tool (09 99 000 0850)<br>- Hand hydraulic tool (09 99 000 0851) |                 |                         |  | Pressforce 120 kN<br>- Accu hydraulic tool (09 99 000 0860)<br>- Hand hydraulic tool (09 99 000 0861) |                         |  |
|                     |                 |                         |  |                     |                         |  |
| Cross-section  | Width crimp die | Double crimp necessary? | Part number crimp die  | Width crimp die   | Double crimp necessary? | Part number crimp die  |
|  |                 |                         |  |   |                         |  |
| 10 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0852   | 10 mm   | No                      | 09 99 000 0862   |
| 16 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0853   | 10 mm   | No                      | 09 99 000 0863   |
| 25 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0854   | 10 mm   | No                      | 09 99 000 0864   |
| 35 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0855   | 10 mm   | No                      | 09 99 000 0865   |
| 50 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0856   | 13 mm   | No                      | 09 99 000 0866   |
| 70 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0857   | 13 mm   | No                      | 09 99 000 0867   |

**Removal tool**



09 99 000 0332


**Assembly tool for shielding clamp**



09 99 000 0334

## Accessories

**Mounting panel long version**



09 40 000 9925

**Mounting panel short version**



09 40 000 9926

**Cover for housing**



09 40 024 5411

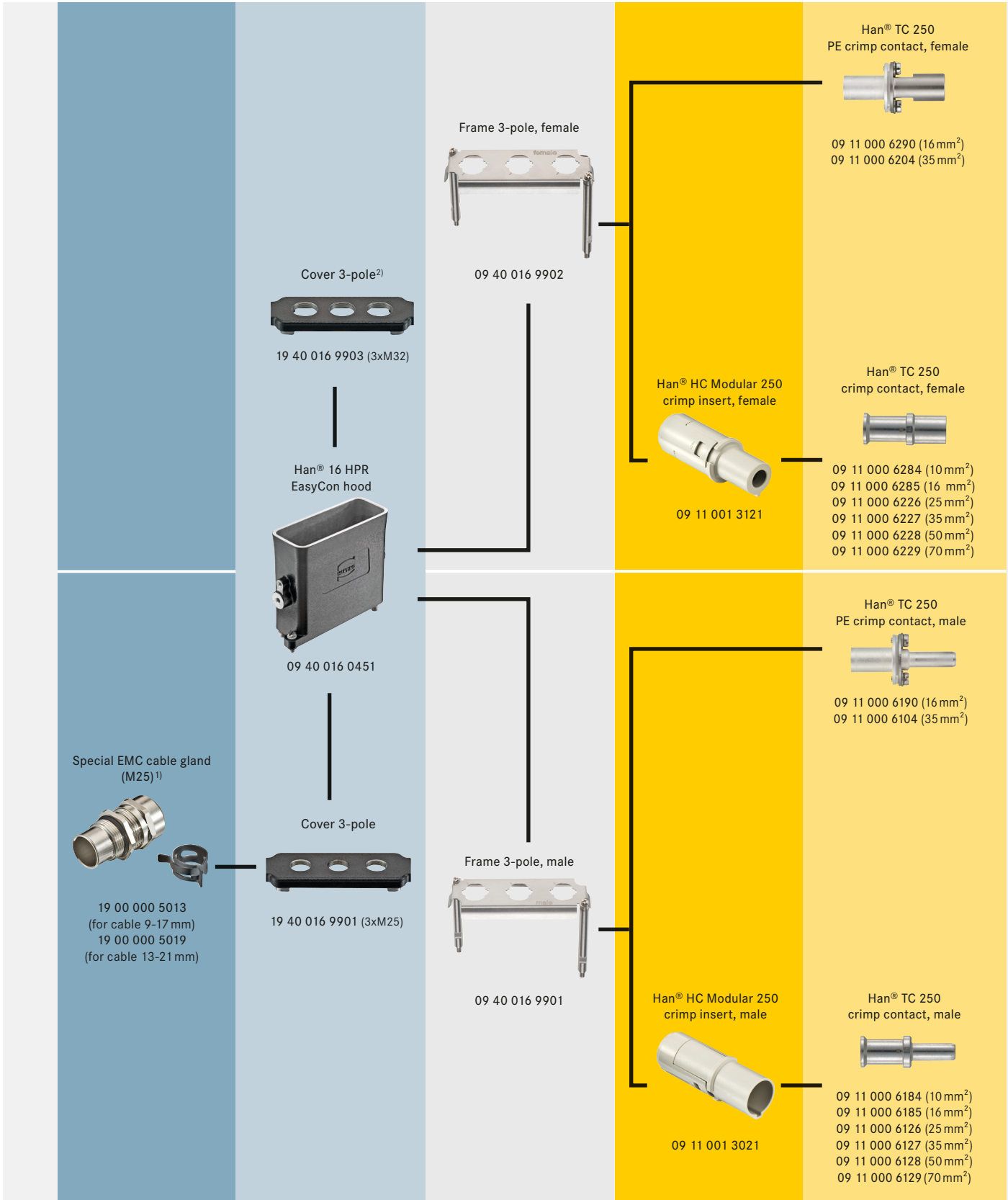
**Cover for hood**



09 40 024 5414

# Assembly options

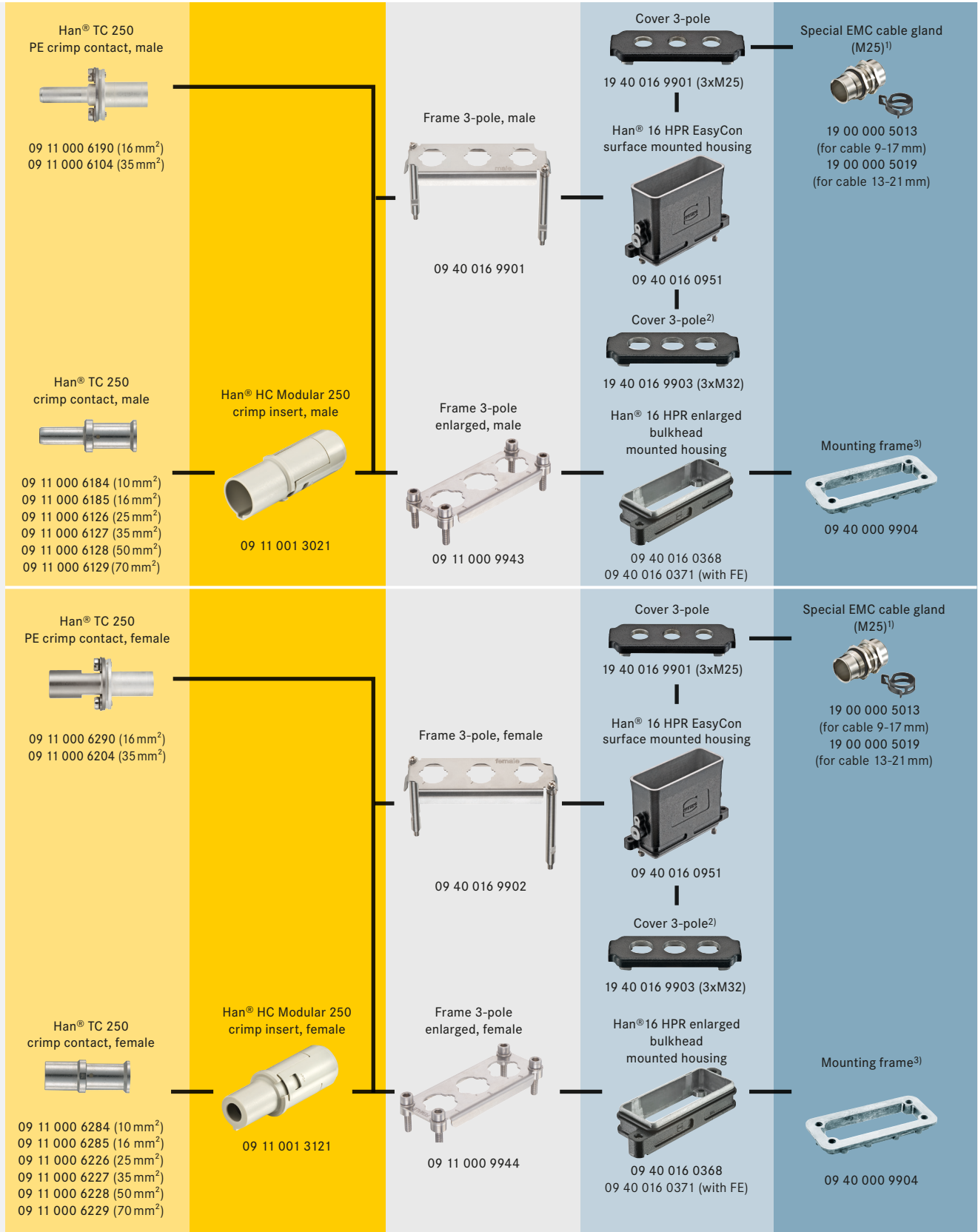
## Han® HC Modular 250, 3-pole, with Han® 16 HPR EasyCon



<sup>1)</sup> Option, can be used for shielded cables

<sup>2)</sup> Cover requires special cable gland

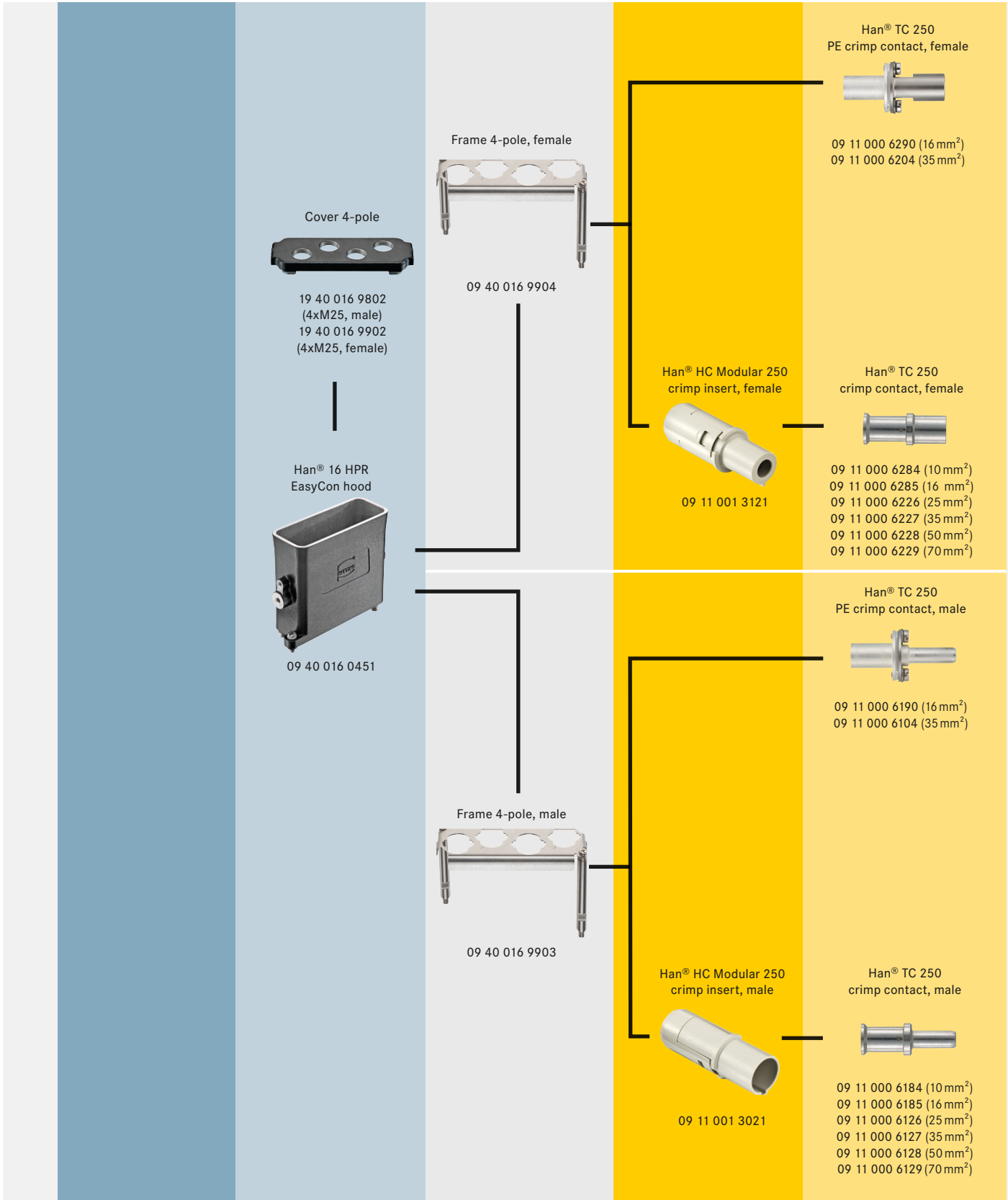




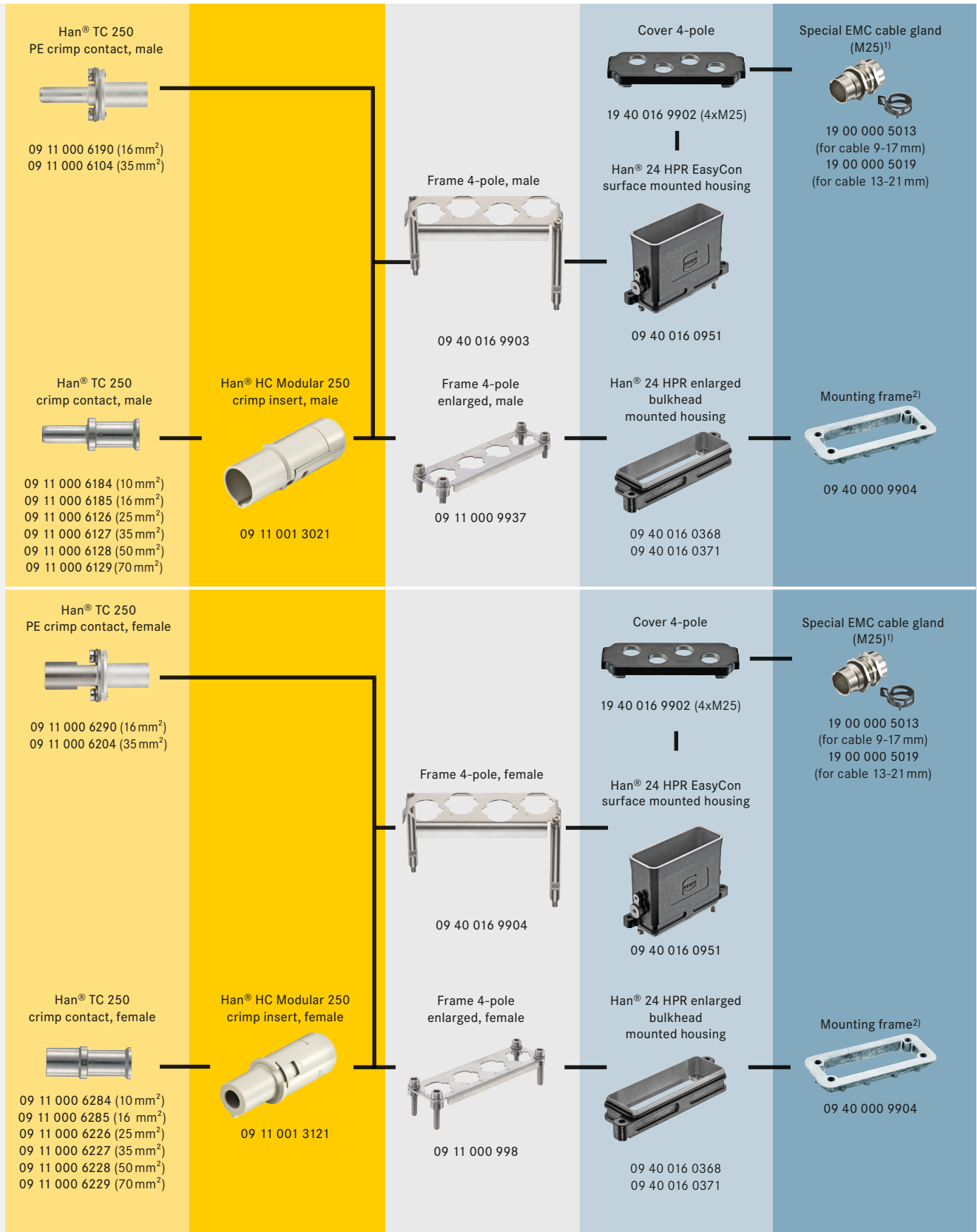
<sup>3)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 250, 4-pole, with Han® 16 HPR EasyCon



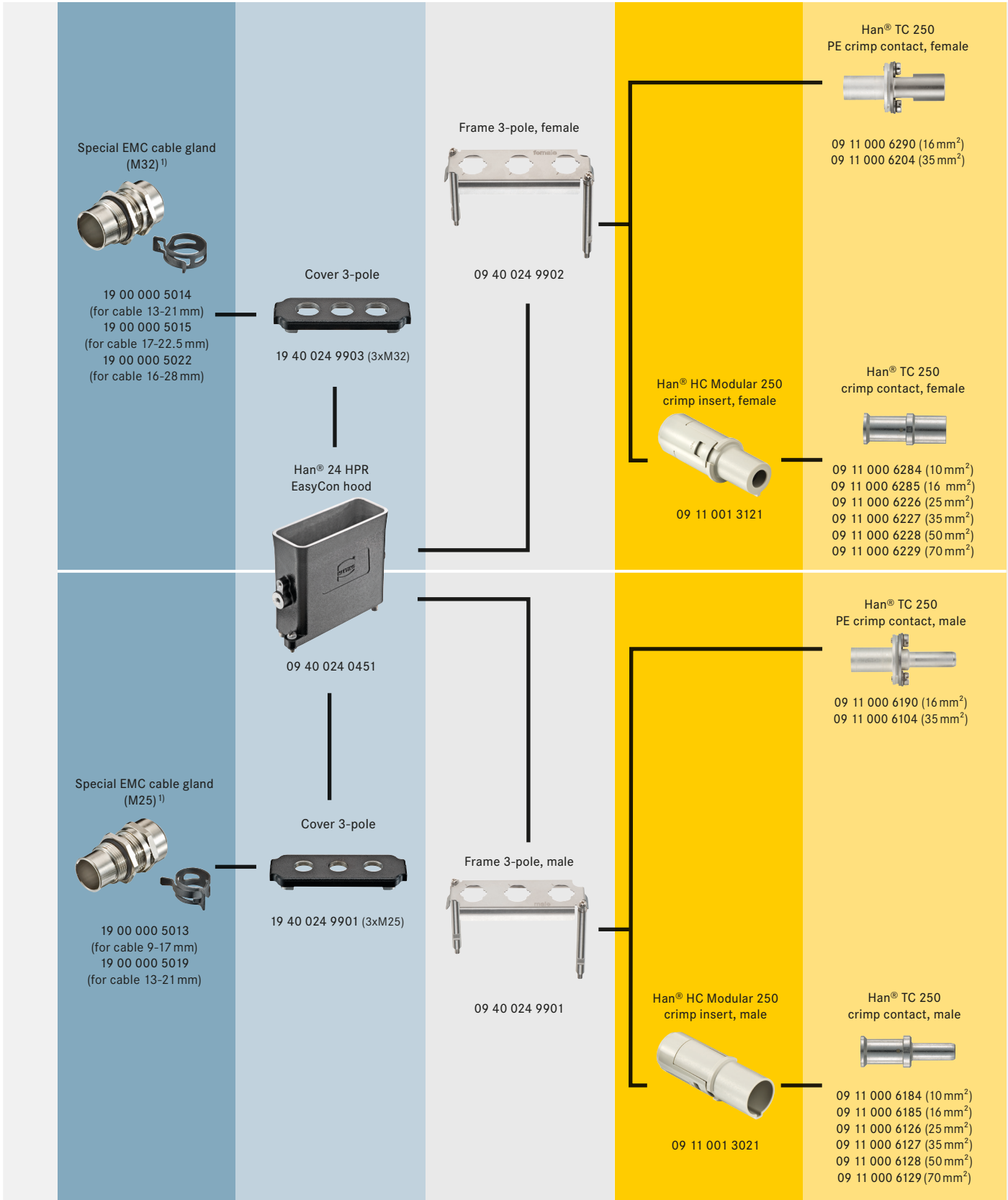
<sup>1)</sup> Option, can be used for shielded cables



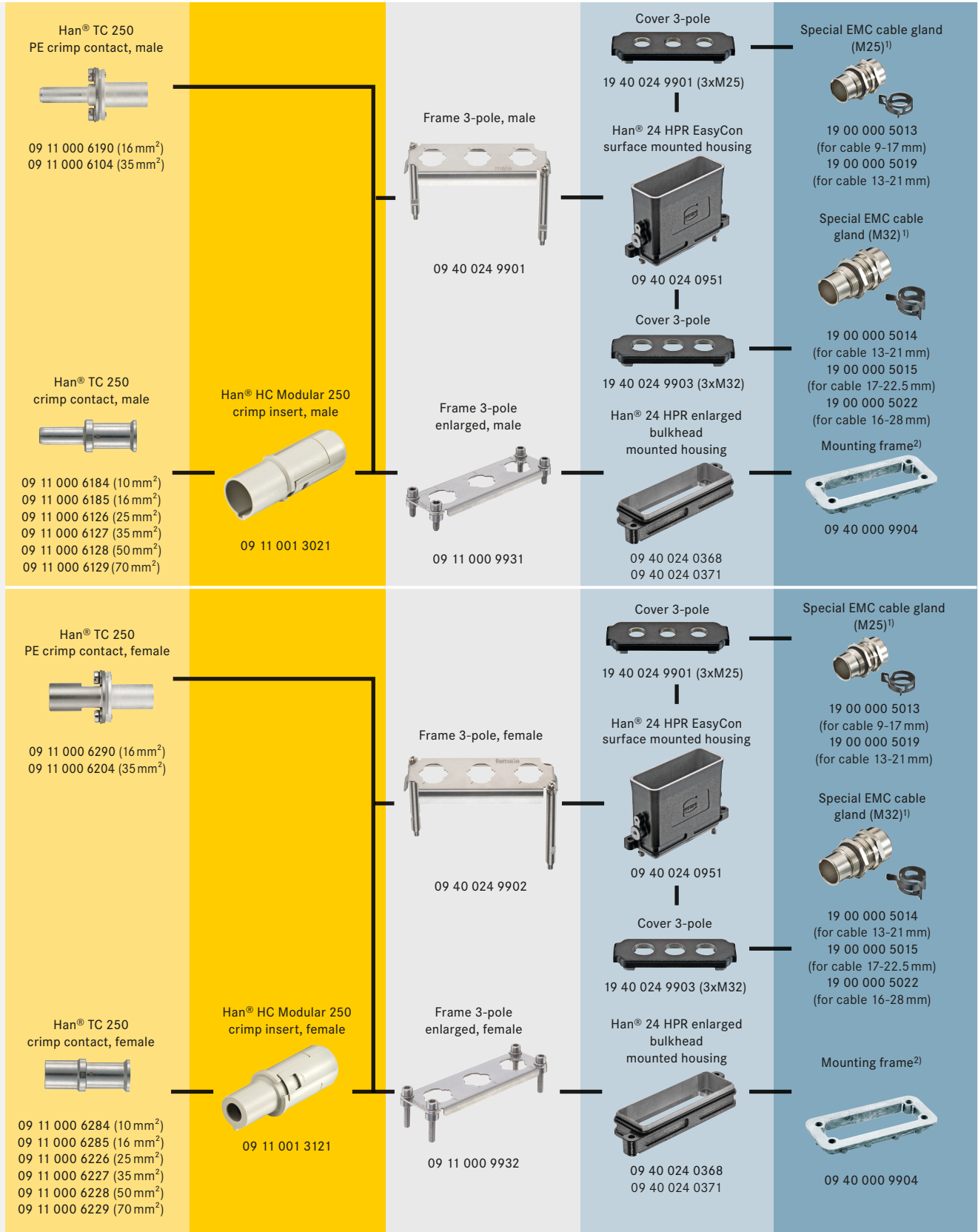
<sup>2)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 250, 3-pole, with Han® 24 HPR EasyCon



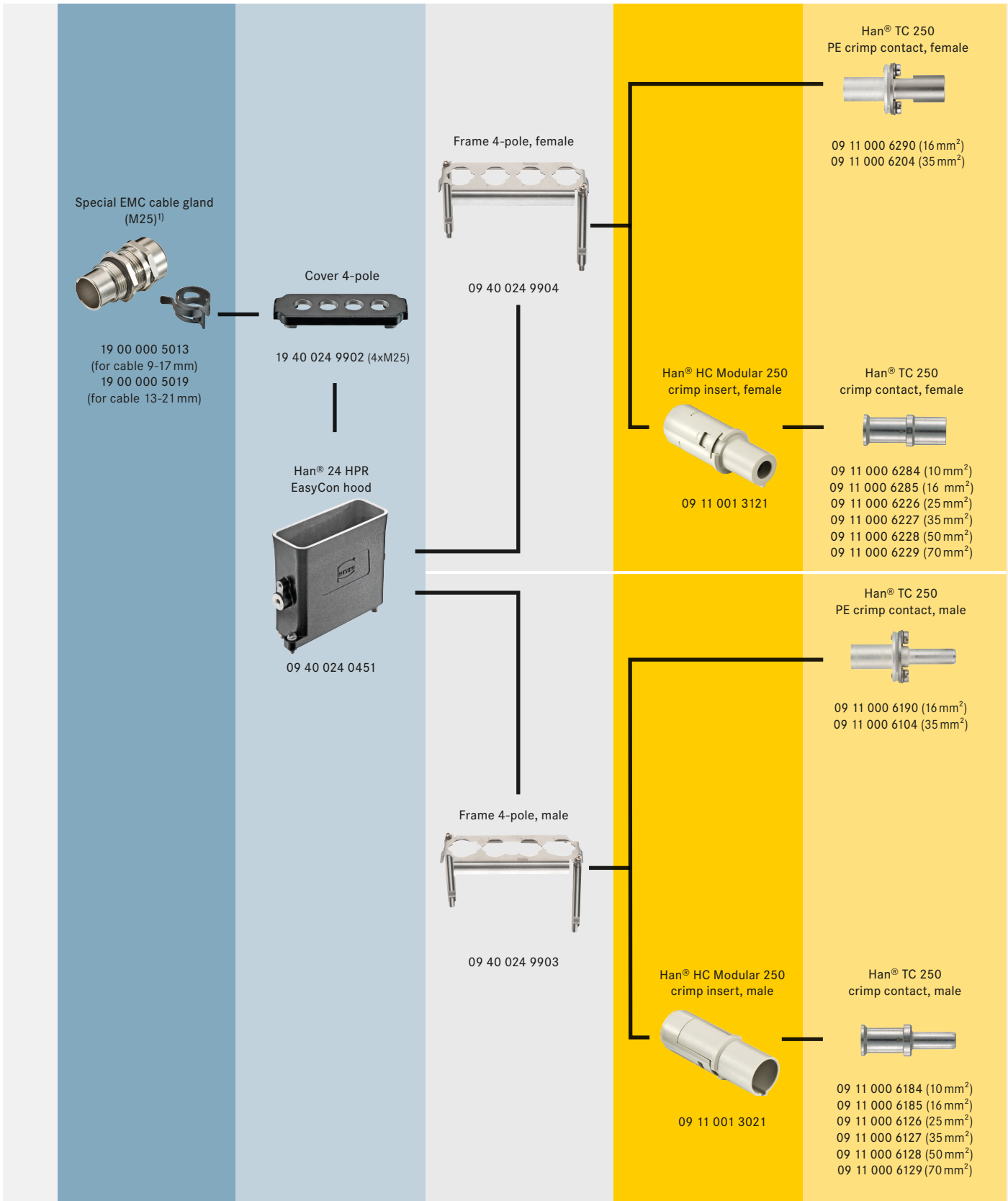
<sup>1)</sup> Option, can be used for shielded cables



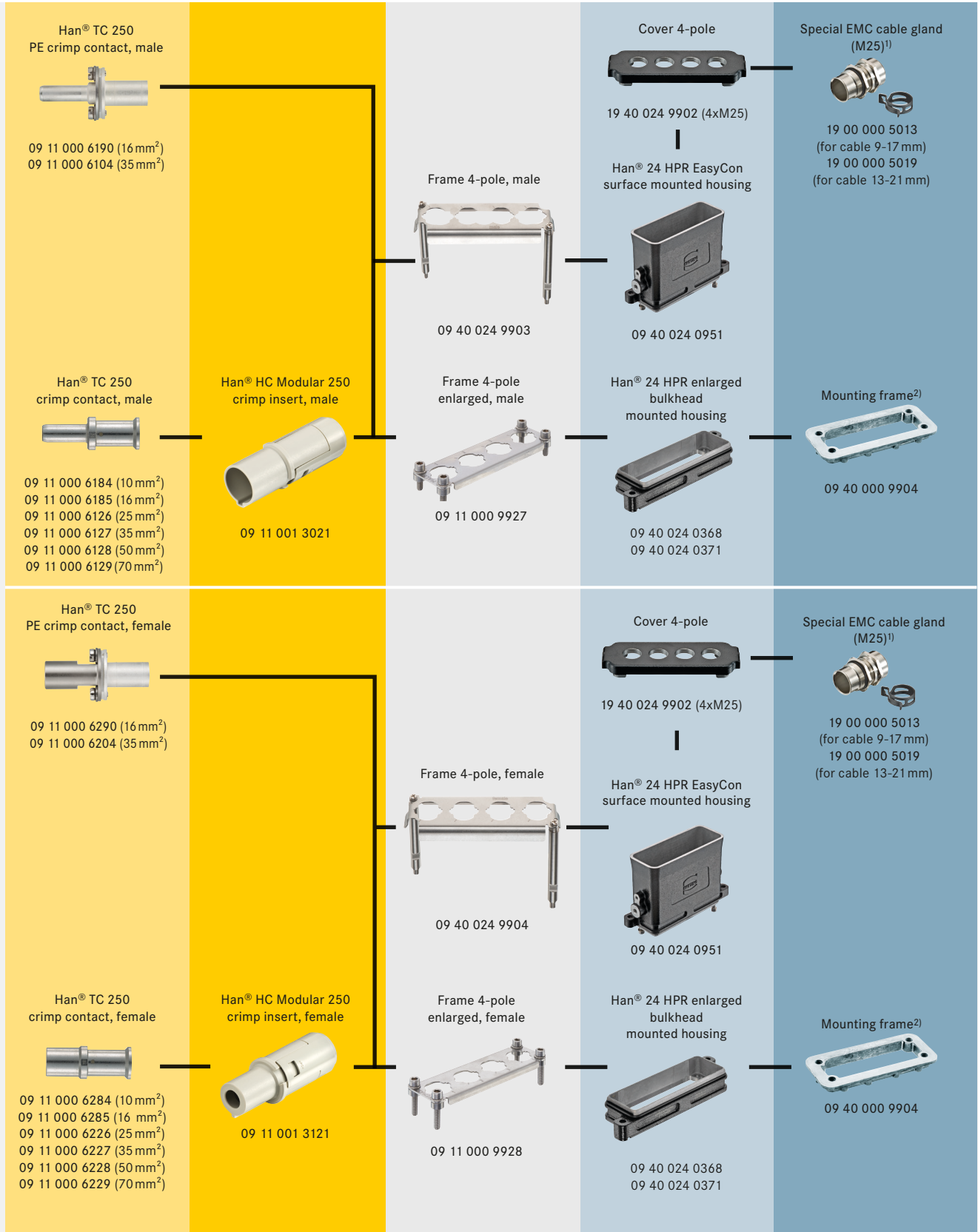
<sup>2)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 250, 4-pole, with Han® 24 HPR EasyCon



<sup>1)</sup> Option, can be used for shielded cables



<sup>2)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Han® HC Modular 350 with Han® HPR

## Technical characteristics

| Hoods & housings                              |  |
|---|--|
| Material:                                     | Aluminum die cast, corrosion resistant         |
| Surface:                                      | Epoxy powder paint, black                      |
| Material locking element:                     | Stainless steel                                |
| Size locking element:                         | M6   |
| Tightening torque locking element:            | 4 Nm   |
| Material seal:                                | NBR  |
| Limiting temperatures:                        | -40 °C...+125 °C                               |
| Corrosion resistance:                         | 500 h acc. to ASTM B117-09                     |
| Degree of protection (for coupled connector): | IP68 / IP69K                                   |
| Frames  |  |
| Material:                                     | Stainless steel                                |
| Tightening torque fixing screws (M3):         | 0.5 Nm   |
| Tightening torque fixing screws (M4):         | 1.5 Nm   |
| Mounting frames                               |  |
| Material:                                     | Aluminum die cast, corrosion resistant         |
| Surface:                                      | without  |
| Tightening torque for fixing holes (M6):      | 10 Nm  |
| Hexagonal adapter                             |  |
| Material:                                     | Brass  |
| Surface:                                      | Nickel plated                                  |
| Tightening torque:                            | 15 Nm (for M25 parts)<br>20 Nm (for M32 parts) |
| Material seal:                                | NBR  |
| Inserts                                       |  |
| Material:                                     | Polyamide and polycarbonate                    |
| Rated voltage:                                | 2000 V / 4000 V                                |
| Rated impulse voltage:                        | 12 kV / 18 kV                                  |
| Pollution degree:                             | 3  |
| Insulation resistance:                        | ≥ 10 <sup>10</sup> Ω                           |
| Limiting temperatures:                        | -40 °C...+125 °C                               |
| Flammability acc. to UL 94:                   | V-0  |
| Mechanical working life:                      | ≥ 500 mating cycles                            |

| Axial screw contacts               |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 350 A               |
| Contact resistance:                | ≤ 0.2 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 19.5 mm             |
| Mechanical working life:           | ≥ 500 mating cycles |

| Termination area:   | Cross-section      | Stripping length | Tightening torque |
|---------------------|--------------------|------------------|-------------------|
|                     | 35 mm <sup>2</sup> | 19...20 mm       | 8 Nm              |
| 50 mm <sup>2</sup>  | 19...20 mm         | 10 Nm            |                   |
| 70 mm <sup>2</sup>  | 19...20 mm         | 12 Nm            |                   |
| 95 mm <sup>2</sup>  | 19...20 mm         | 14 Nm            |                   |
| 120 mm <sup>2</sup> | 19...20 mm         | 16 Nm            |                   |

| Crimp contacts                     |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 350 A               |
| Contact resistance:                | ≤ 0.3 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 22 mm               |
| Mechanical working life:           | ≥ 500 mating cycles |

| Crimp zone<br>(acc. to DIN 46 235) | Cross-section      | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46 235 |
|------------------------------------|--------------------|--------------|------------------|-----------------------------------|
|                                    | 25 mm <sup>2</sup> | 7.0 mm       | 26.0 mm          | 10                                |
| 35 mm <sup>2</sup>                 | 8.2 mm             | 26.0 mm      | 12               |                                   |
| 50 mm <sup>2</sup>                 | 10.0 mm            | 28.0 mm      | 14               |                                   |
| 70 mm <sup>2</sup>                 | 11.5 mm            | 28.0 mm      | 16               |                                   |
| 95 mm <sup>2</sup>                 | 13.5 mm            | 30.0 mm      | 18               |                                   |
| 120 mm <sup>2</sup>                | 15.5 mm            | 24.0 mm      | 20               |                                   |

| Screw contacts           |   |
|--------------------------|---|
| Material:                | Copper alloy                                  |
| Surface:                 | Silver  |
| Rated current:           | 350 A   |
| Contact resistance:      | ≤ 0.2 mΩ                                      |
| Wires:                   | For cable lugs up to max. 120 mm <sup>2</sup> |
| Mechanical working life: | ≥ 500 mating cycles                           |
| Screw thread:            | M10   |
| Wrench size:             | SW17 at contact / SW16 at screw               |
| Tightening torque:       | 14 Nm   |



## Tools

| Crimp tools  |                 |                         |                       |   |                         |                       |
|--|-----------------|-------------------------|-----------------------|---|-------------------------|-----------------------|
| Pressforce 60 kN<br>- Accu hydraulic tool (09 99 000 0850)<br>- Hand hydraulic tool (09 99 000 0851) |                 |                         |                       | Pressforce 120 kN<br>- Accu hydraulic tool (09 99 000 0860)<br>- Hand hydraulic tool (09 99 000 0861) |                         |                       |
|  |                 |                         |                       |   |                         |                       |
| Cross-section  | Width crimp die | Double crimp necessary? | Part number crimp die | Width crimp die   | Double crimp necessary? | Part number crimp die |
| 25 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0854        | 10 mm   | No                      | 09 99 000 0864        |
| 35 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0855        | 10 mm   | No                      | 09 99 000 0865        |
| 50 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0856        | 13 mm   | No                      | 09 99 000 0866        |
| 70 mm <sup>2</sup>   | 9 mm            | No                      | 10 99 000 0857        | 13 mm   | No                      | 09 99 000 0867        |
| 90 mm <sup>2</sup>   | -               | -                       | -                     | 14 mm   | No                      | 09 99 000 0868        |
| 120 mm <sup>2</sup>  | -               | -                       | -                     | 14 mm   | No                      | 09 99 000 0869        |

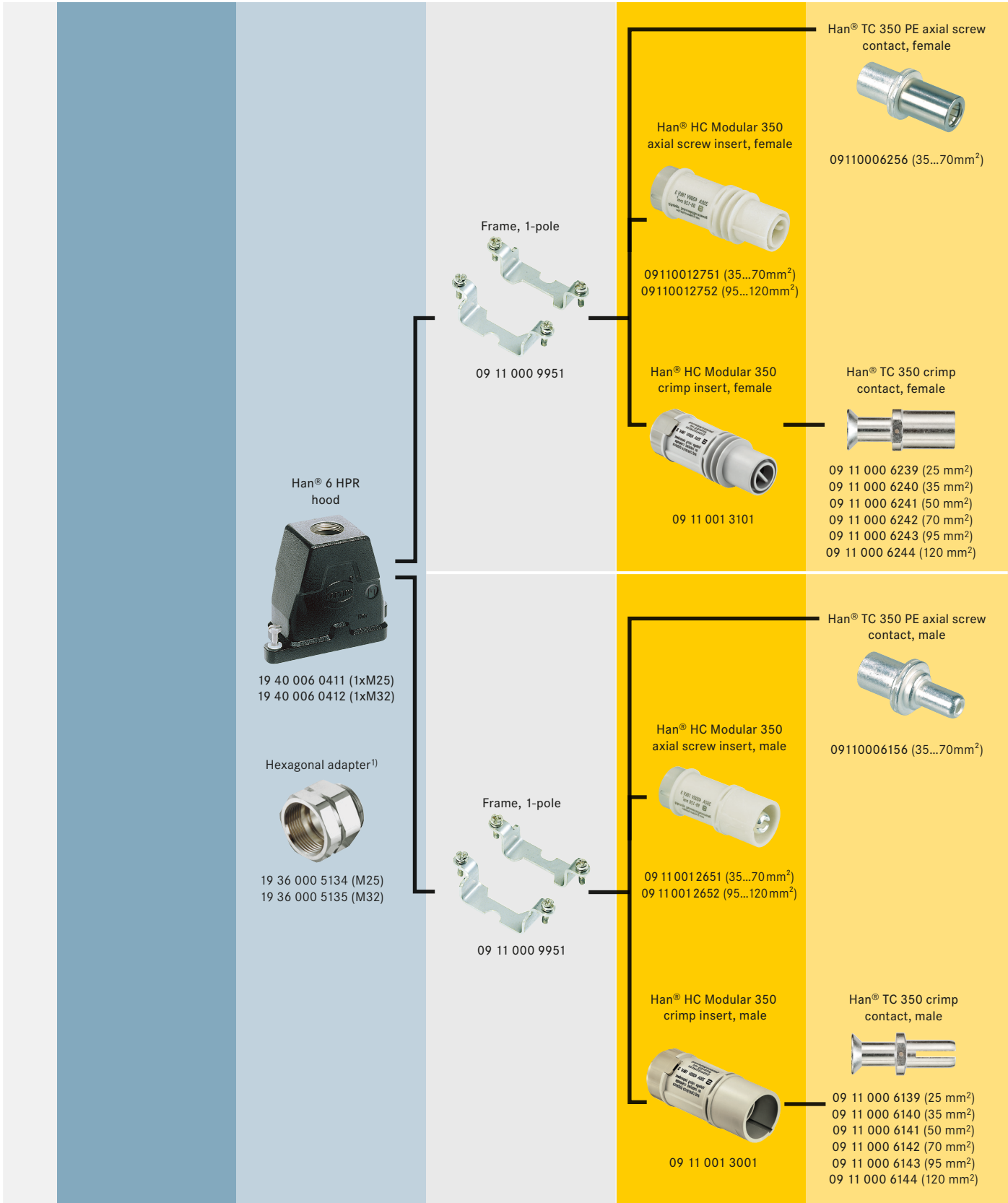
|  |  |
|--|--|
| <p>Han® Torque Tool Set for axial screw contacts</p> <p>09 99 000 0833</p> | <p>Hexagonal driver, adapter SW5</p> <p>09 99 000 0371</p> |
|--|--|

## Accessories






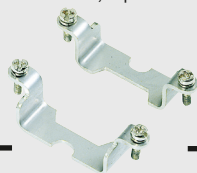
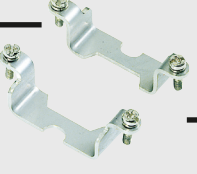

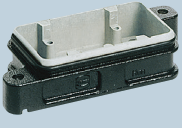







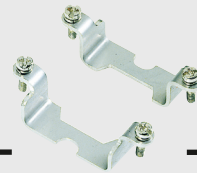
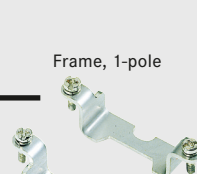

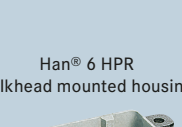


|   |  |
|---|--|
| <p>Cover for housing</p> <p>09 40 024 5411 (for Han® 24 HPR)<br/>09 40 016 5411 (for Han® 16 HPR)<br/>09 40 006 5411 (for Han® 6 HPR)</p> | <p>Cover for hood</p> <p>09 40 024 5414 (for Han® 24 HPR)<br/>09 40 016 5414 (for Han® 16 HPR)<br/>09 40 006 5414 (for Han® 6 HPR)</p> |
|---|--|

# Assembly options

## Han® HC Modular 350, 1-pole, with Han® 6 HPR



<sup>1)</sup> Can be used at the cable entries to increase the working voltage up to 4000 V

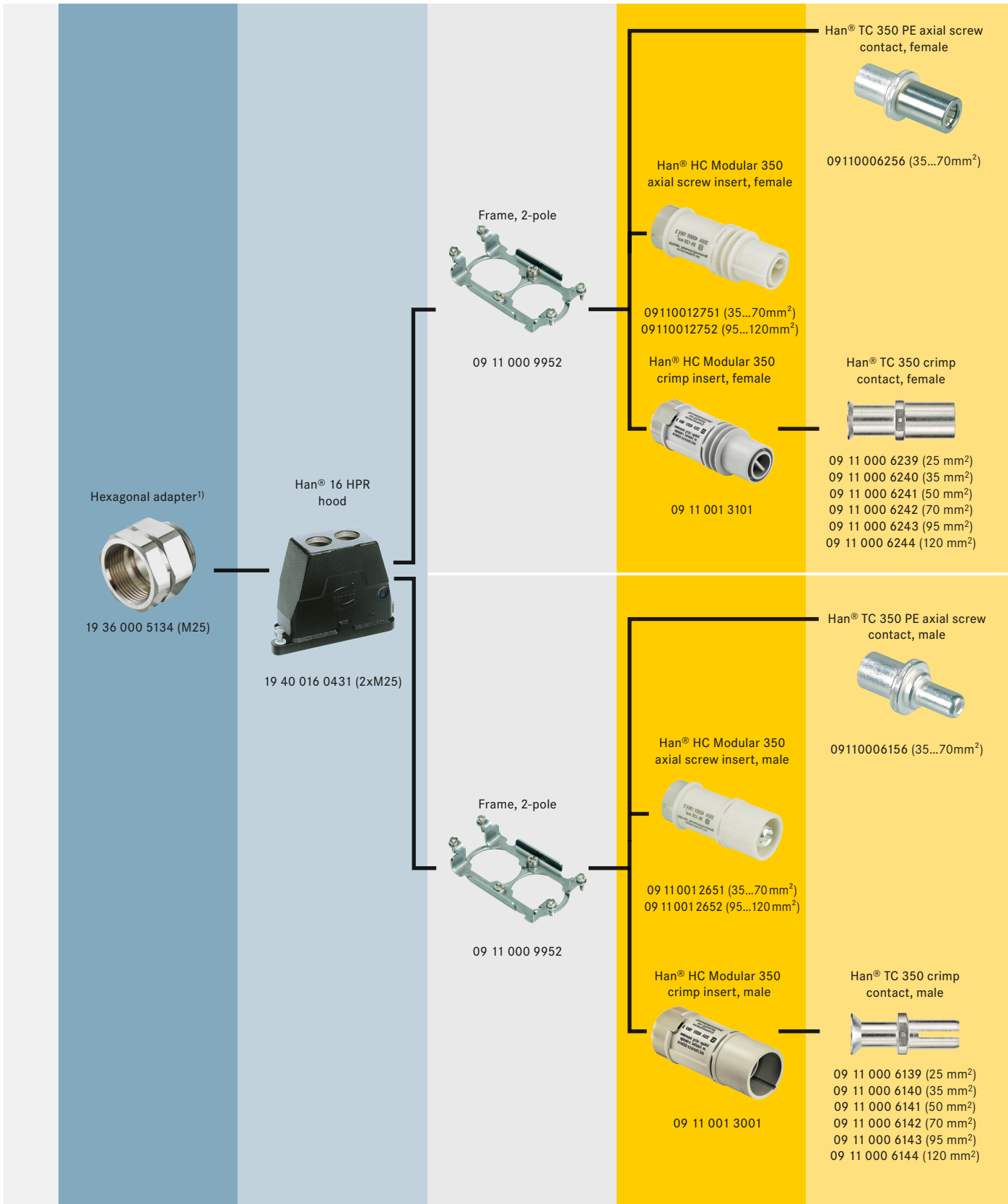
|   |   |   |  |  |
|---|---|---|--|--|
| <p>Han® TC 350 PE<br/>axial screw contact, male</p>  <p>09 11 000 6156 (35...70 mm<sup>2</sup>)</p> <p>Han® TC 350<br/>crimp contact, male</p>  <p>09 11 000 6139 (25 mm<sup>2</sup>)<br/>09 11 000 6140 (35 mm<sup>2</sup>)<br/>09 11 000 6141 (50 mm<sup>2</sup>)<br/>09 11 000 6142 (70 mm<sup>2</sup>)<br/>09 11 000 6143 (95 mm<sup>2</sup>)<br/>09 11000 6144 (120 mm<sup>2</sup>)</p>          | <p>Han® HC Modular 350<br/>axial screw insert, male</p>  <p>09 11 001 2651 (35...70 mm<sup>2</sup>)<br/>09 11 001 2652 (95...120 mm<sup>2</sup>)</p> <p>Han® HC Modular 350<br/>crimp insert, male</p>  <p>09 11 001 3001</p> <p>Han HC Modular 350 screw<br/>insert, male<sup>2)</sup></p>  <p>09 11 001 2655</p>            | <p>Frame, 1-pole</p>  <p>09 11 000 9951</p> <p>Frame, 1-pole</p>  <p>09 11 000 9951</p>    | <p>Han® 6 HPR<br/>surface mounted housing,<br/>horizontal version</p>  <p>19 40 006 0911 (1xM25)</p> <p>Han® 6 HPR<br/>bulkhead mounted housing</p>  <p>09 40 006 0311</p>    | <p>Hexagonal adapter<sup>1)</sup></p>  <p>19360005134 (M25)</p> <p>Mounting frame<sup>3)</sup></p>  <p>09 40 000 9901</p>        |
| <p>Han® TC 350 PE<br/>axial screw contact, female</p>  <p>09 11 000 6256 (35...70 mm<sup>2</sup>)</p> <p>Han® TC 350 crimp contact,<br/>female</p>  <p>09 11 000 6239 (25 mm<sup>2</sup>)<br/>09 11 000 6240 (35 mm<sup>2</sup>)<br/>09 11 000 6241 (50 mm<sup>2</sup>)<br/>09 11 000 6242 (70 mm<sup>2</sup>)<br/>09 11 000 6243 (95 mm<sup>2</sup>)<br/>09 11 000 6244 (120 mm<sup>2</sup>)</p> | <p>Han HC Modular 350<br/>axial screw insert, female</p>  <p>09 11 001 2751 (35...70 mm<sup>2</sup>)<br/>09 11 001 2752 (95...120 mm<sup>2</sup>)</p> <p>Han® HC Modular 350<br/>crimp insert, female</p>  <p>09 11 001 3101</p> <p>Han® HC Modular 350<br/>screw insert, female<sup>2)</sup></p>  <p>09 11 001 2755</p> | <p>Frame, 1-pole</p>  <p>09 11 000 9951</p> <p>Frame, 1-pole</p>  <p>09 11 000 9951</p> | <p>Han® 6 HPR<br/>surface mounted housing,<br/>horizontal version</p>  <p>19 40 006 0911 (1xM25)</p> <p>Han® 6 HPR<br/>bulkhead mounted housing</p>  <p>09 40 006 0311</p> | <p>Hexagonal adapter<sup>1)</sup></p>  <p>19 36 000 5135 (M32)</p> <p>Mounting frame<sup>3)</sup></p>  <p>09 40 000 9901</p> |

<sup>2)</sup> Can be used only in Han® HPR bulkhead mounted housing

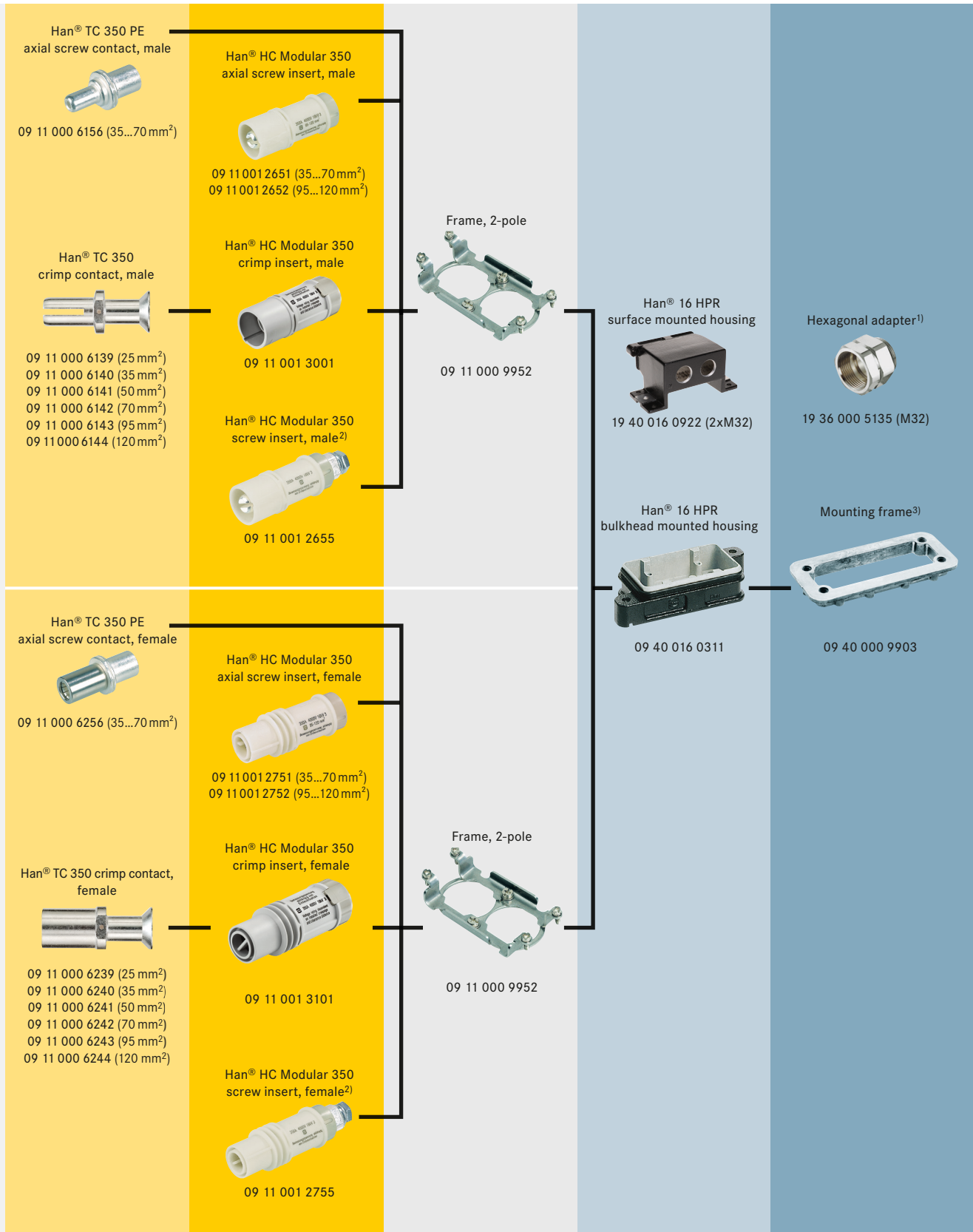
<sup>3)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 350, 2-pole, with Han® 16 HPR



<sup>1)</sup> Can be used at the cable entries to increase the working voltage up to 4000 V

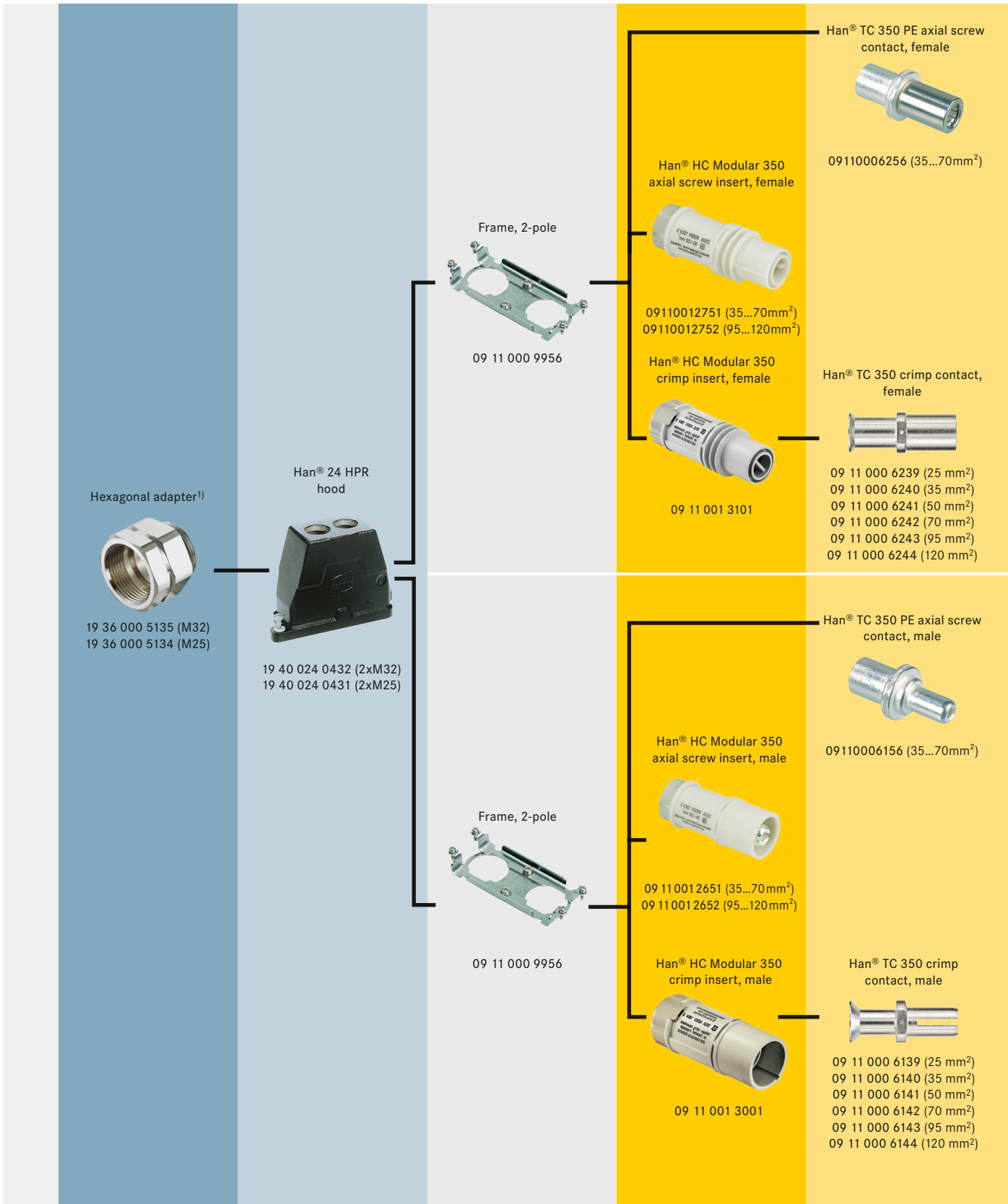


<sup>2)</sup> Can be used only in Han® HPR bulkhead mounted housing

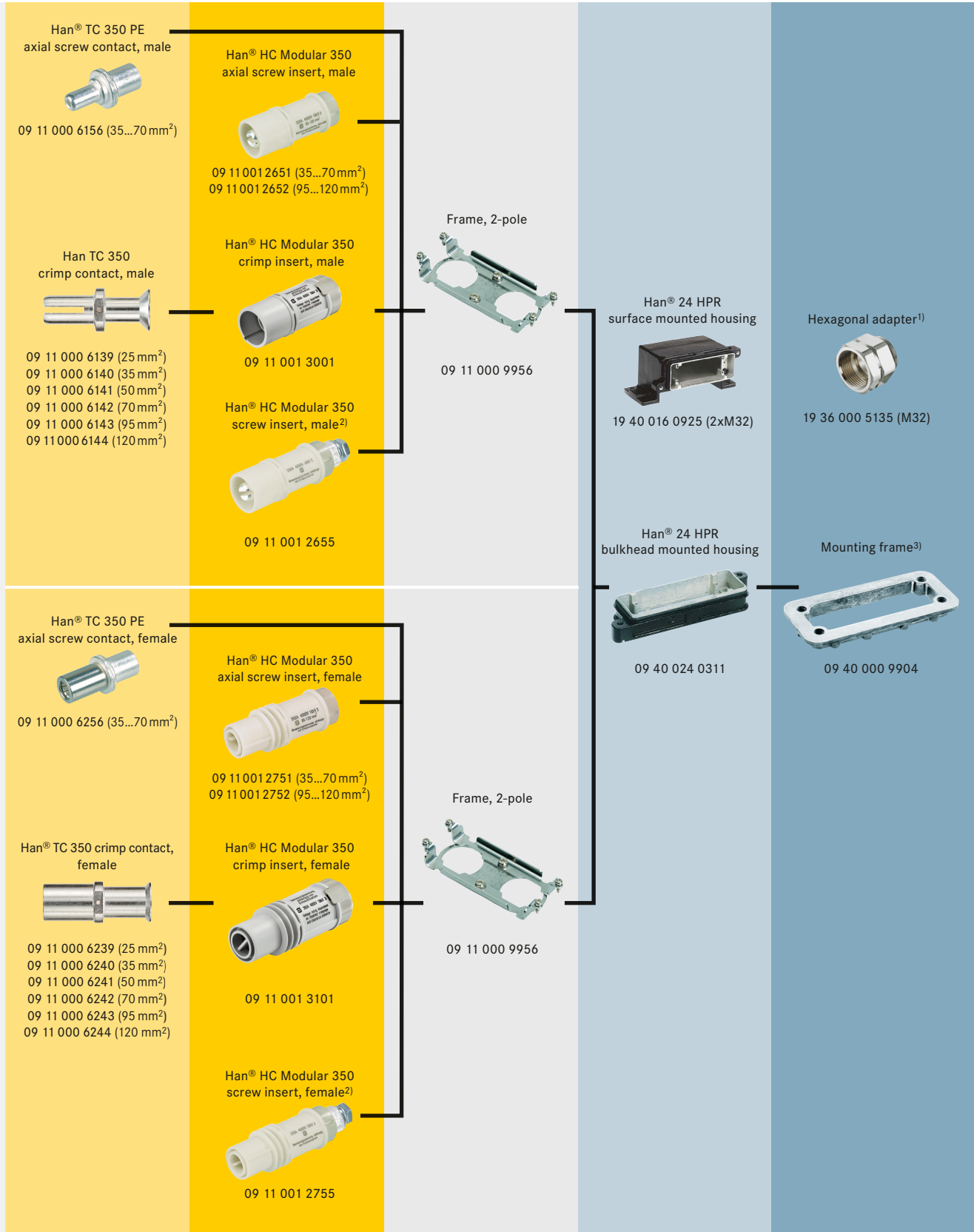
<sup>3)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 350, 2-pole, with Han® 24 HPR



<sup>1)</sup> Can be used at the cable entries to increase the working voltage up to 4000 V

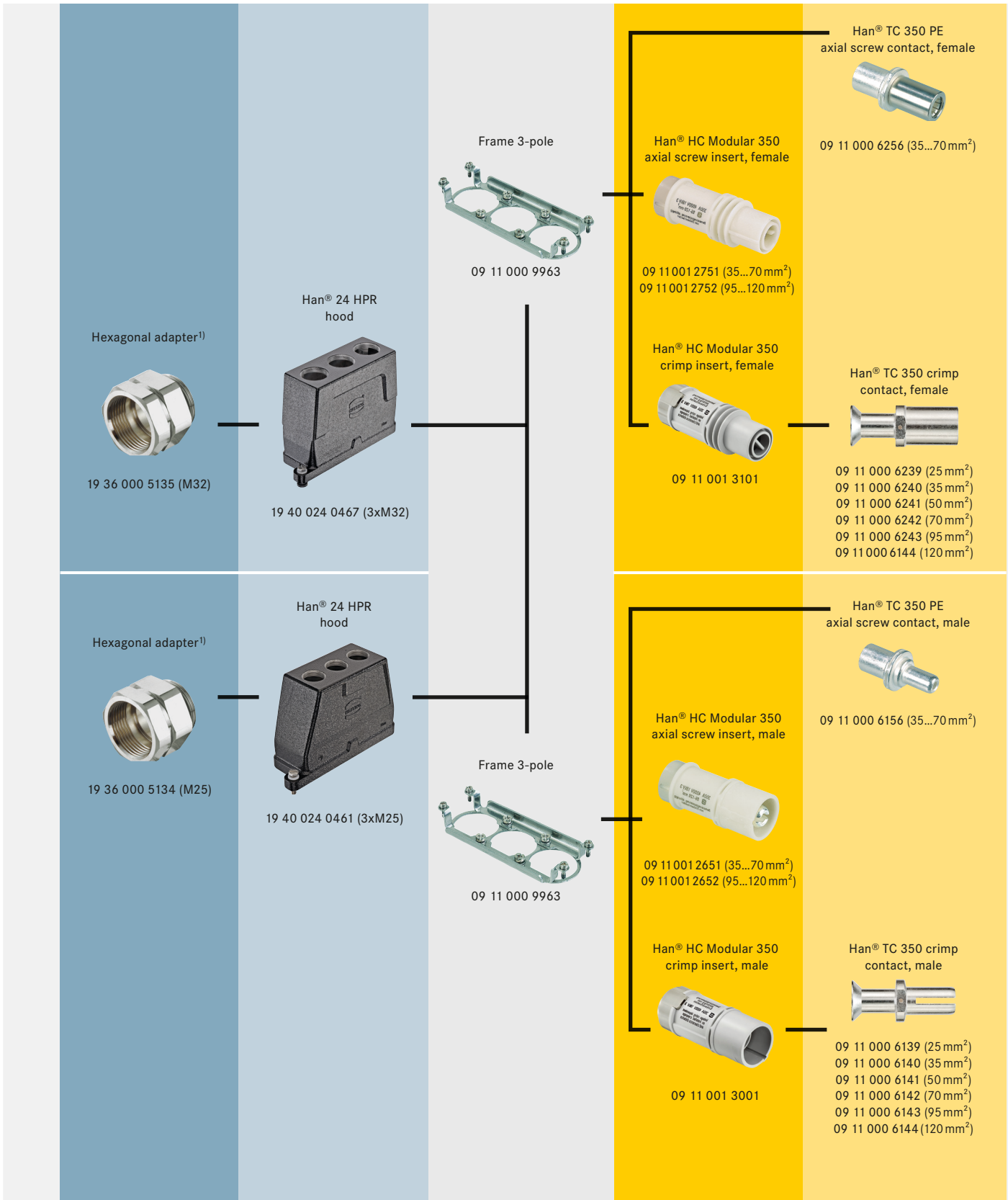


<sup>2)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>3)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

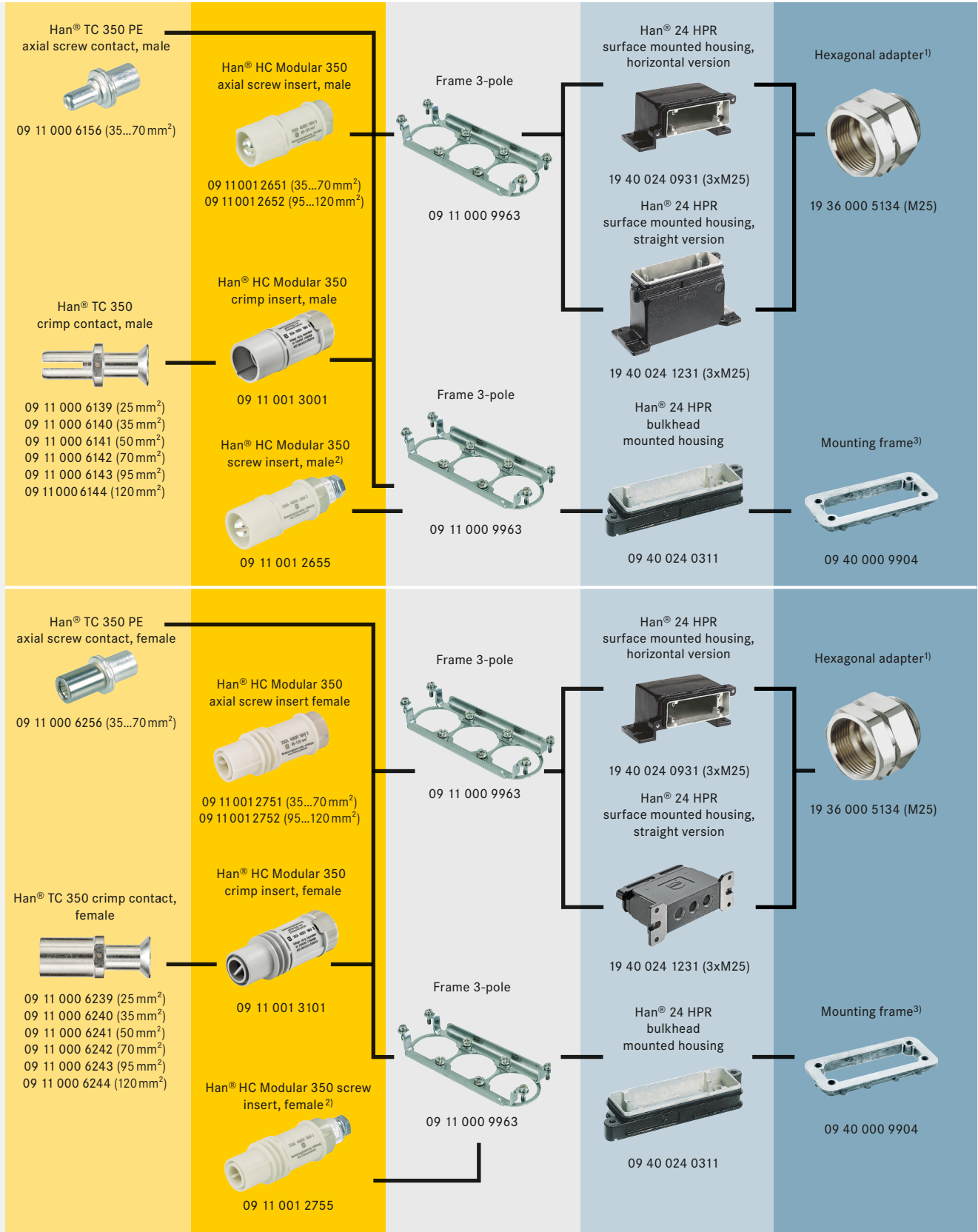
# Assembly options

## Han® HC Modular 350, 3-pole, with Han® 24 HPR



<sup>1)</sup> Option, can be used at cable entries to increase working voltage up to 4000 V





<sup>2)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>3)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Han® HC Modular 350 with Han® 24 HPR enlarged

## Technical characteristics

| Hoods & housings                              |  |
|---|--|
| Material:                                     | Aluminum die cast, corrosion resistant         |
| Surface:                                      | Epoxy powder paint, black                      |
| Material locking element:                     | Stainless steel                                |
| Size locking element:                         | M6   |
| Tightening torque locking element:            | 4 Nm   |
| Material seal:                                | NBR  |
| Limiting temperatures:                        | -40 °C....+125 °C                              |
| Corrosion resistance:                         | 500 h acc. to ASTM B117-09                     |
| Degree of protection (for coupled connector): | IP68 / IP69K                                   |
| Frames  |  |
| Material:                                     | Stainless steel                                |
| Tightening torque fixing screws (M3):         | 0.5 Nm   |
| Tightening torque fixing screws (M6):         | 10 Nm  |
| Mounting frames                               |  |
| Material:                                     | Aluminum die cast, corrosion resistant         |
| Surface:                                      | without  |
| Tightening torque for fixing holes (M6):      | 10 Nm  |
| Hexagonal adapter                             |  |
| Material:                                     | Brass  |
| Surface:                                      | Nickel plated                                  |
| Tightening torque:                            | 15 Nm (for M25 parts)<br>20 Nm (for M32 parts) |
| Material seal:                                | NBR  |
| Inserts                                       |  |
| Material:                                     | Polyamide and polycarbonate                    |
| Rated voltage:                                | 2000 V / 4000 V                                |
| Rated impulse voltage:                        | 12 kV / 18 kV                                  |
| Pollution degree:                             | 3  |
| Insulation resistance:                        | ≥ 10 <sup>10</sup> Ω                           |
| Limiting temperatures:                        | -40 °C....+125 °C                              |
| Flammability acc. to UL 94:                   | V-0  |
| Mechanical working life:                      | ≥ 500 mating cycles                            |

| Axial screw contacts               |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 350 A               |
| Contact resistance:                | ≤ 0.2 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 19.5 mm             |
| Mechanical working life:           | ≥ 500 mating cycles |

| Termination area:   | Cross-section      | Stripping length | Tightening torque |
|---------------------|--------------------|------------------|-------------------|
|                     | 35 mm <sup>2</sup> | 19...20 mm       | 8 Nm              |
|                     | 50 mm <sup>2</sup> | 19...20 mm       | 10 Nm             |
|                     | 70 mm <sup>2</sup> | 19...20 mm       | 12 Nm             |
|                     | 95 mm <sup>2</sup> | 19...20 mm       | 14 Nm             |
| 120 mm <sup>2</sup> | 19...20 mm         | 16 Nm            |                   |

| Crimp contacts                     |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 350 A               |
| Contact resistance:                | ≤ 0.3 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 18 mm               |
| Mechanical working life:           | ≥ 500 mating cycles |

| Crimp zone<br>(acc. to DIN 46 235) | Cross-section      | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46 235 |
|------------------------------------|--------------------|--------------|------------------|-----------------------------------|
|                                    | 25 mm <sup>2</sup> | 7.0 mm       | 26.0 mm          | 10                                |
|                                    | 35 mm <sup>2</sup> | 8.2 mm       | 26.0 mm          | 12                                |
|                                    | 50 mm <sup>2</sup> | 10.0 mm      | 28.0 mm          | 14                                |
|                                    | 70 mm <sup>2</sup> | 11.5 mm      | 28.0 mm          | 16                                |
|                                    | 95 mm <sup>2</sup> | 13.5 mm      | 30.0 mm          | 18                                |
| 120 mm <sup>2</sup>                | 15.5 mm            | 24.0 mm      | 20               |                                   |

| Screw contacts           |   |
|--------------------------|---|
| Material:                | Copper alloy                                  |
| Surface:                 | Silver  |
| Rated current:           | 350 A   |
| Contact resistance:      | ≤ 0.2 mΩ                                      |
| Wires:                   | For cable lugs up to max. 120 mm <sup>2</sup> |
| Mechanical working life: | ≥ 500 mating cycles                           |
| Screw thread:            | M10   |
| Wrench size:             | SW17 at contact / SW16 at screw               |
| Tightening torque:       | 14 Nm   |

## Tools

| Crimp tools  |                 |                         |                       |   |                         |                       |
|--|-----------------|-------------------------|-----------------------|---|-------------------------|-----------------------|
| Pressforce 60 kN<br>- Accu hydraulic tool (09 99 000 0850)<br>- Hand hydraulic tool (09 99 000 0851) |                 |                         |                       | Pressforce 120 kN<br>- Accu hydraulic tool (09 99 000 0860)<br>- Hand hydraulic tool (09 99 000 0861) |                         |                       |
|  |                 |                         |                       |   |                         |                       |
| Cross-section  | Width crimp die | Double crimp necessary? | Part number crimp die | Width crimp die   | Double crimp necessary? | Part number crimp die |
| 25 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0854        | 10 mm   | No                      | 09 99 000 0864        |
| 35 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0855        | 10 mm   | No                      | 09 99 000 0865        |
| 50 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0856        | 13 mm   | No                      | 09 99 000 0866        |
| 70 mm <sup>2</sup>   | 9 mm            | No                      | 10 99 000 0857        | 13 mm   | No                      | 09 99 000 0867        |
| 90 mm <sup>2</sup>   | -               | -                       | -                     | 14 mm   | No                      | 09 99 000 0868        |
| 120 mm <sup>2</sup>  | -               | -                       | -                     | 14 mm   | No                      | 09 99 000 0869        |

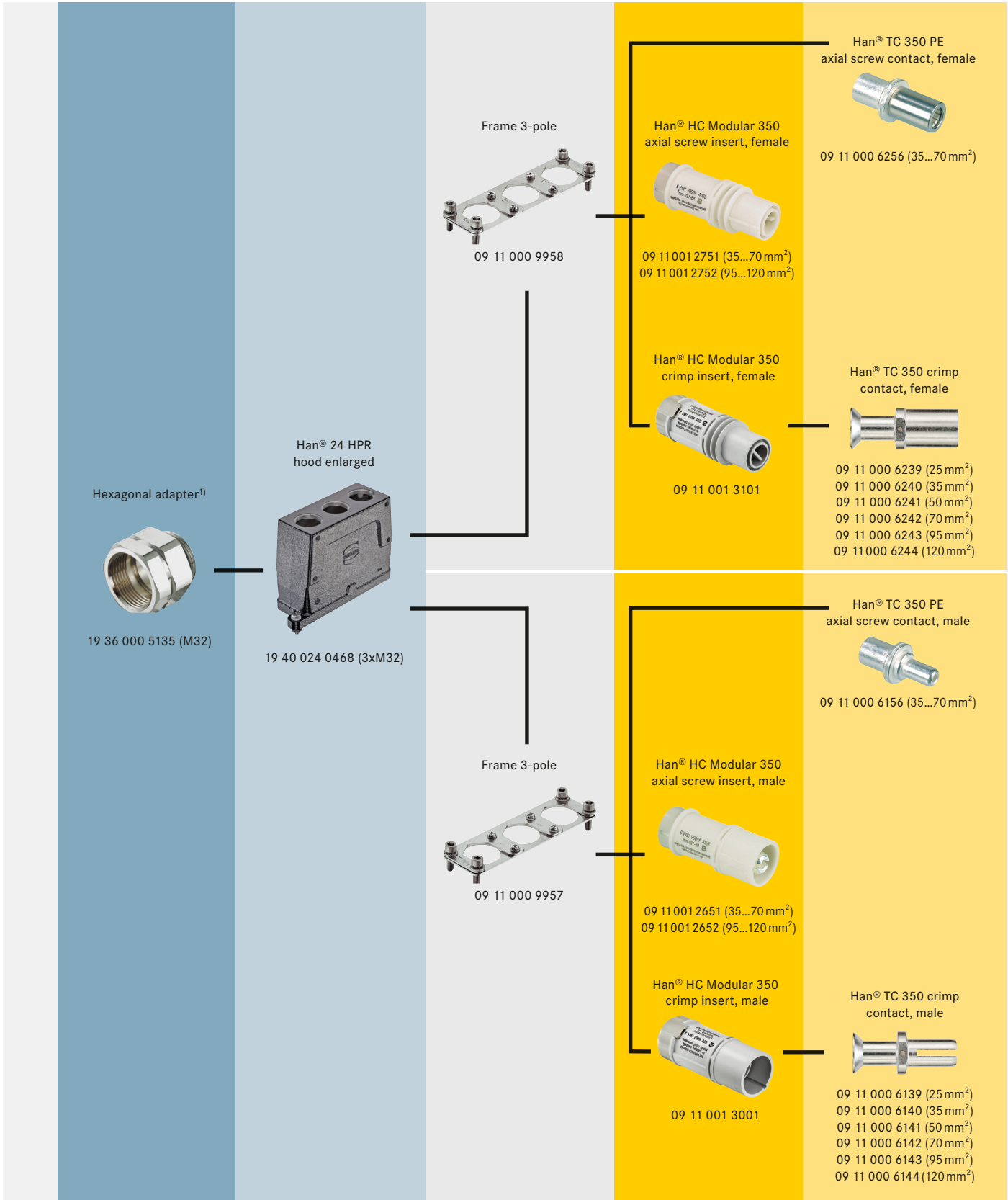
|  |  |
|--|--|
| <p>Han® Torque Tool Set for axial screw contacts</p> <p>09 99 000 0833</p> | <p>Hexagonal driver, adapter SW8</p> <p>09 99 000 0371</p> |
|--|--|

## Accessories














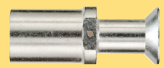







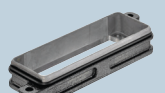

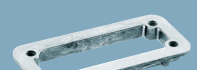
|  |   |
|--|---|
| <p>Cover for housing</p> <p>09 40 024 5411</p> | <p>Cover for hood</p> <p>09 40 024 5414</p> |
|--|---|

# Assembly options

## Han® HC Modular 350, 3-pole, with Han® 24 HPR enlarged



<sup>1)</sup> Can be used at the cable entries to increase the working voltage up to 4000 V

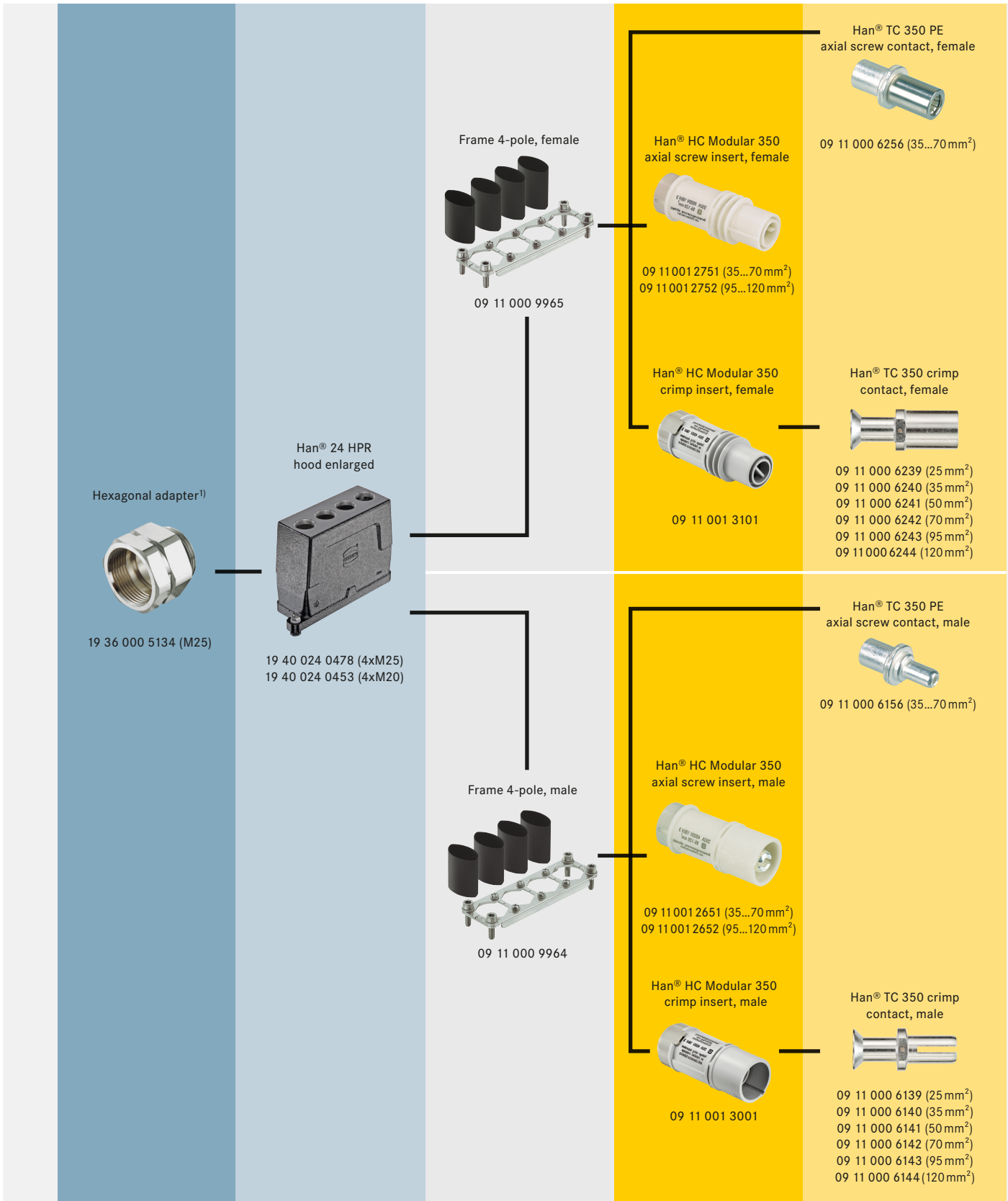
|   |   |   |   |   |
|---|---|---|---|---|
| <p>Han® TC 350 PE axial screw contact, male</p>  <p>09 11 000 6156 (35...70 mm<sup>2</sup>)</p> <p>Han® TC 350 crimp contact, male</p>  <p>09 11 000 6139 (25 mm<sup>2</sup>)<br/>09 11 000 6140 (35 mm<sup>2</sup>)<br/>09 11 000 6141 (50 mm<sup>2</sup>)<br/>09 11 000 6142 (70 mm<sup>2</sup>)<br/>09 11 000 6143 (95 mm<sup>2</sup>)<br/>09 11 000 6144 (120 mm<sup>2</sup>)</p>         | <p>Han® HC Modular 350 axial screw insert, male</p>  <p>09 11 001 2651 (35...70 mm<sup>2</sup>)<br/>09 11 001 2652 (95...120 mm<sup>2</sup>)</p> <p>Han® HC Modular 350 crimp insert, male</p>  <p>09 11 001 3001</p> <p>Han® HC Modular 350 screw insert, male<sup>2)</sup></p>  <p>09 11 001 2655</p>          | <p>Frame 3-pole</p>  <p>09 11 000 9957</p> <p>Frame 3-pole</p>  <p>09 11 000 9957</p>    | <p>Han® 24 HPR surface mounted housing, horizontal version</p>  <p>19 40 024 0968 (3xM32)<br/>19 40 024 0367 (3xM25)</p> <p>Han® 24 HPR bulkhead mounted housing, enlarged</p>  <p>09 40 024 0368</p> <p>Han® 24 HPR bulkhead mounted housing, enlarged</p>  <p>09 40 024 0368<br/>09 40 024 0371</p>      | <p>Hexagonal adapter<sup>1)</sup></p>  <p>19 36 000 5135 (M32)<br/>19 36 000 5134 (M25)</p> <p>Mounting frame<sup>3)</sup></p>  <p>09 40 000 9904</p>    |
| <p>Han® TC 350 PE axial screw contact, female</p>  <p>09 11 000 6256 (35...70 mm<sup>2</sup>)</p> <p>Han® TC 350 crimp contact, female</p>  <p>09 11 000 6239 (25 mm<sup>2</sup>)<br/>09 11 000 6240 (35 mm<sup>2</sup>)<br/>09 11 000 6241 (50 mm<sup>2</sup>)<br/>09 11 000 6242 (70 mm<sup>2</sup>)<br/>09 11 000 6243 (95 mm<sup>2</sup>)<br/>09 11 000 6244 (120 mm<sup>2</sup>)</p> | <p>Han® HC Modular 350 axial screw insert female</p>  <p>09 11 001 2751 (35...70 mm<sup>2</sup>)<br/>09 11 001 2752 (95...120 mm<sup>2</sup>)</p> <p>Han® HC Modular 350 crimp insert, female</p>  <p>09 11 001 3101</p> <p>Han® HC Modular 350 screw insert, female<sup>2)</sup></p>  <p>09 11 001 2755</p> | <p>Frame 3-pole</p>  <p>09 11 000 9958</p> <p>Frame 3-pole</p>  <p>09 11 000 9958</p> | <p>Han® 24 HPR surface mounted housing, horizontal version</p>  <p>19 40 024 0968 (3xM32)<br/>19 40 024 0367 (3xM25)</p> <p>Han® 24 HPR bulkhead mounted housing, enlarged</p>  <p>09 40 024 0368</p> <p>Han® 24 HPR bulkhead mounted housing, enlarged</p>  <p>09 40 024 0368<br/>09 40 024 0371</p> | <p>Hexagonal adapter<sup>1)</sup></p>  <p>19 36 000 5135 (M32)<br/>19 36 000 5134 (M25)</p> <p>Mounting frame<sup>3)</sup></p>  <p>09 40 000 9904</p> |

<sup>2)</sup> Can be used only in Han® HPR bulkhead mounted housing

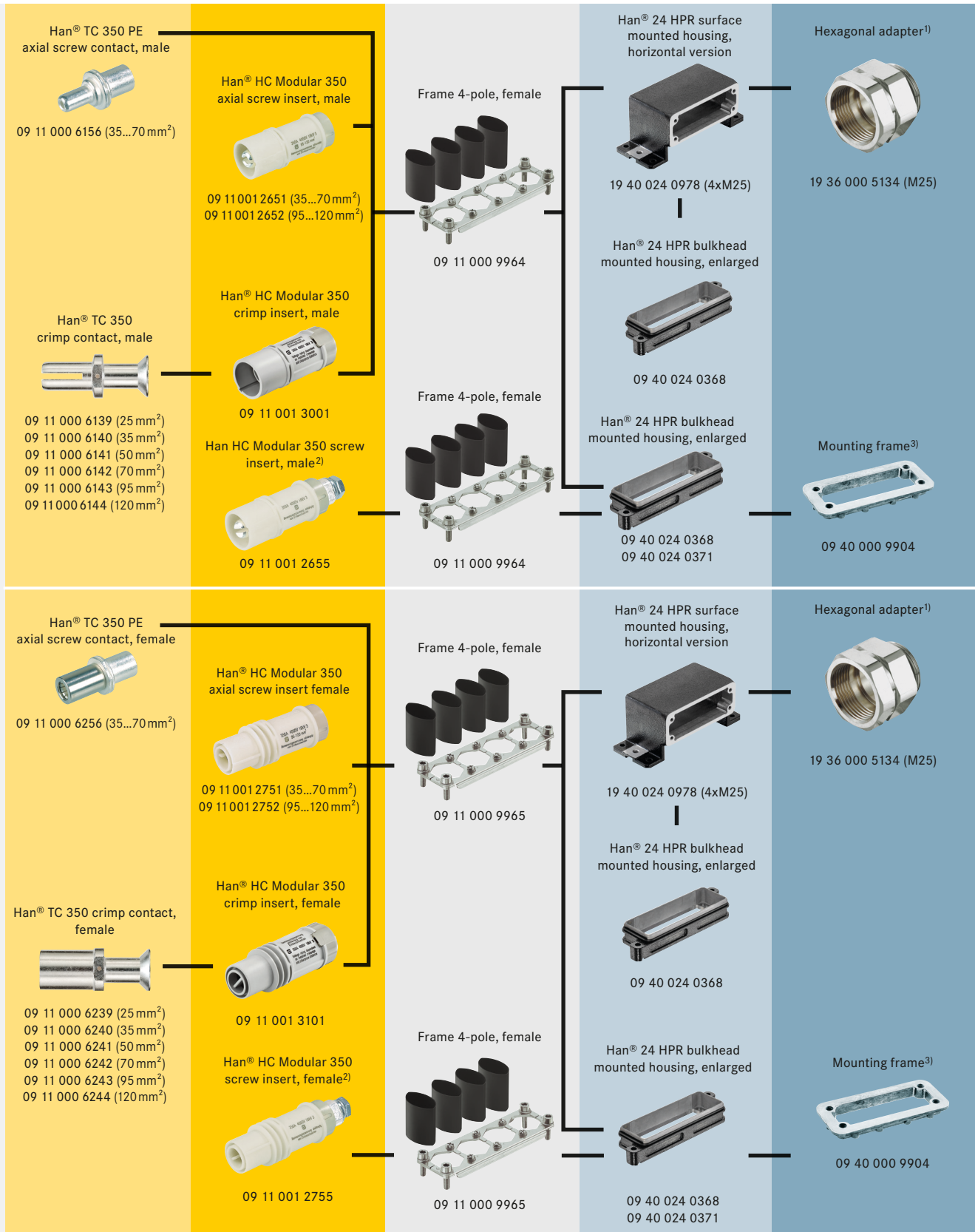
<sup>3)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 350, 4-pole, with Han® 24 HPR enlarged



<sup>1)</sup> Can be used at the cable entries to increase the working voltage up to 4000 V



<sup>2)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>3)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Han® HC Modular 350 with Han® HPR EasyCon

## Technical characteristics

| Hoods, housings and covers                       |  |
|--|--|
| Material:  | Aluminum die cast, corrosion resistant         |
| Surface:   | Epoxy powder paint, black                      |
| Material locking element:                        | Stainless steel                                |
| Size locking element:                            | M6   |
| Tightening torque locking element:               | 4 Nm   |
| Tightening torque fixing screws for covers (M6): | 6 Nm   |
| Tightening torque for external PE (M8):          | 15 Nm  |
| Material seal:                                   | NBR  |
| Limiting temperatures:                           | -40 °C... +125 °C                              |
| Corrosion resistance:                            | 500 h acc. to ASTM B 117-09                    |
| Degree of protection (for coupled connector):    | IP68 / IP69K                                   |
| Frames   |  |
| Material:  | Stainless steel                                |
| Tightening torque distance bolts:                | 6 Nm   |
| Tightening torque fixing screws (M4):            | 1.5 Nm   |
| Tightening torque fixing screws (M6):            | 10 Nm  |
| Mounting panels                                  |  |
| Material:  | Stainless steel                                |
| Tightening torque for fixing holes (M6):         | 6 Nm   |
| Mounting frames                                  |  |
| Material:  | Aluminum die cast, corrosion resistant         |
| Surface:   | without  |
| Tightening torque for fixing holes (M6):         | 10 Nm  |
| Special EMC cable glands                         |  |
| Material:  | Brass  |
| Surface:   | Nickel plated                                  |
| Material seal:                                   | EPDM   |
| Material clamping cage:                          | Polyamide                                      |
| Tightening torque fitting and cab nut:           | 10 Nm (for M25 parts)<br>20 Nm (for M32 parts) |
| Material self-locking clamp:                     | Spring band steel                              |
| Surface self-locking clamp:                      | Zinc-aluminum coating + organic topcoat        |
| Inserts  |  |
| Material:  | Polyamide and polycarbonate                    |
| Rated voltage:                                   | 2000 V / 4000 V                                |
| Rated impulse voltage:                           | 12 kV / 18 kV                                  |
| Pollution degree:                                | 3  |
| Insulation resistance:                           | ≥ 10 <sup>10</sup> Ω                           |
| Limiting temperatures:                           | -40 °C... +125 °C                              |
| Flammability acc. to UL 94:                      | V-0  |
| Mechanical working life:                         | ≥ 500 mating cycles                            |

| Axial screw contacts               |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 350 A               |
| Contact resistance:                | ≤ 0.2 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 19.5 mm             |
| Mechanical working life:           | ≥ 500 mating cycles |

| Termination area: | Cross-section       | Stripping length | Tightening torque |
|-------------------|---------------------|------------------|-------------------|
|                   | 35 mm <sup>2</sup>  | 19...20 mm       | 8 Nm              |
|                   | 50 mm <sup>2</sup>  | 19...20 mm       | 10 Nm             |
|                   | 70 mm <sup>2</sup>  | 19...20 mm       | 12 Nm             |
|                   | 95 mm <sup>2</sup>  | 19...20 mm       | 14 Nm             |
|                   | 120 mm <sup>2</sup> | 19...20 mm       | 16 Nm             |

| Screw contacts           |   |
|--------------------------|---|
| Material:                | Copper alloy                                  |
| Surface:                 | Silver  |
| Rated current:           | 350 A   |
| Contact resistance:      | ≤ 0.2 mΩ                                      |
| Wires:                   | For cable lugs up to max. 120 mm <sup>2</sup> |
| Mechanical working life: | ≥ 500 mating cycles                           |
| Screw thread:            | M10   |
| Wrench size:             | SW17 at contact / SW16 at screw               |
| Tightening torque:       | 14 Nm   |

| Crimp contacts                     |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 350 A               |
| Contact resistance:                | ≤ 0.3 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 22 mm               |
| Mechanical working life:           | ≥ 500 mating cycles |


| Crimp zone<br>(acc. to DIN 46 235) | Cross-section       | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46 235 |
|------------------------------------|---------------------|--------------|------------------|-----------------------------------|
|                                    | 25 mm <sup>2</sup>  | 7.0 mm       | 26.0 mm          | 10                                |
|                                    | 35 mm <sup>2</sup>  | 8.2 mm       | 26.0 mm          | 12                                |
|                                    | 50 mm <sup>2</sup>  | 10.0 mm      | 28.0 mm          | 14                                |
|                                    | 70 mm <sup>2</sup>  | 11.5 mm      | 28.0 mm          | 16                                |
|                                    | 95 mm <sup>2</sup>  | 13.5 mm      | 30.0 mm          | 18                                |
|                                    | 120 mm <sup>2</sup> | 15.5 mm      | 24.0 mm          | 20                                |



## Tools

| Crimp tools  |                 |                         |                       |   |                         |                       |
|--|-----------------|-------------------------|-----------------------|---|-------------------------|-----------------------|
| Pressforce 60 kN<br>- Accu hydraulic tool (09 99 000 0850)<br>- Hand hydraulic tool (09 99 000 0851) |                 |                         |                       | Pressforce 120 kN<br>- Accu hydraulic tool (09 99 000 0860)<br>- Hand hydraulic tool (09 99 000 0861) |                         |                       |
| Cross-section  | Width crimp die | Double crimp necessary? | Part number crimp die | Width crimp die   | Double crimp necessary? | Part number crimp die |
| 25 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0854        | 10 mm   | No                      | 09 99 000 0864        |
| 35 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0855        | 10 mm   | No                      | 09 99 000 0865        |
| 50 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0856        | 13 mm   | No                      | 09 99 000 0866        |
| 70 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0857        | 13 mm   | No                      | 09 99 000 0867        |
| 95 mm <sup>2</sup>   | -               | -                       | -                     | 14 mm   | No                      | 09 99 000 0868        |
| 120 mm <sup>2</sup>  | -               | -                       | -                     | 14 mm   | No                      | 09 99 000 0869        |

**Han® Torque Tool Set for axial screw contacts**



09 99 000 0833

**Assembly tool for shielding clamp**



09 99 000 0334

**Hexagonal driver, adapter SW5**



09 99 000 0371

## Accessories

**Mounting panel long version**



09 40 000 9925

**Mounting panel short version**



09 40 000 9926

**Cover for housing**



09 40 024 5411

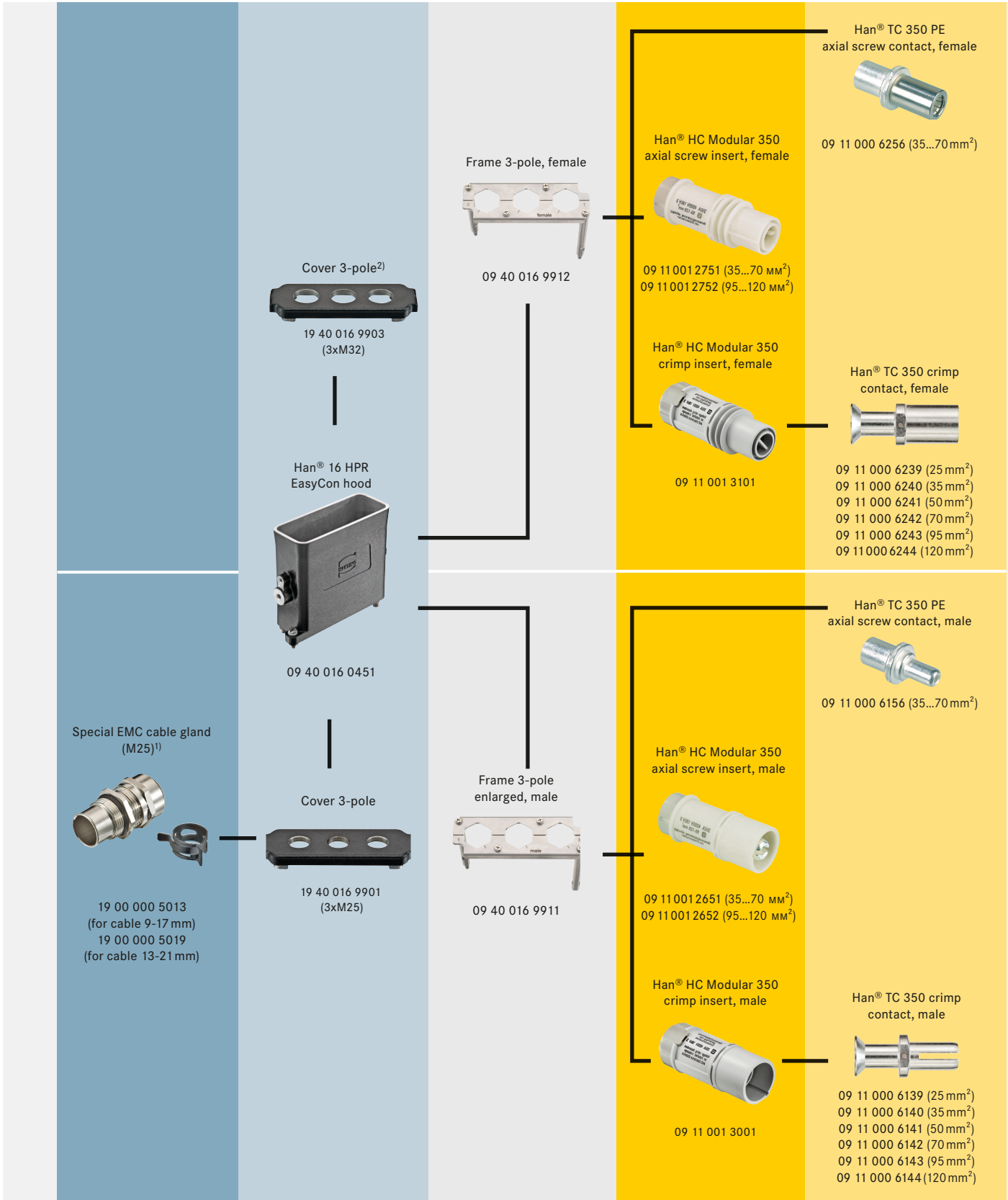
**Cover for hood**



09 40 024 5414

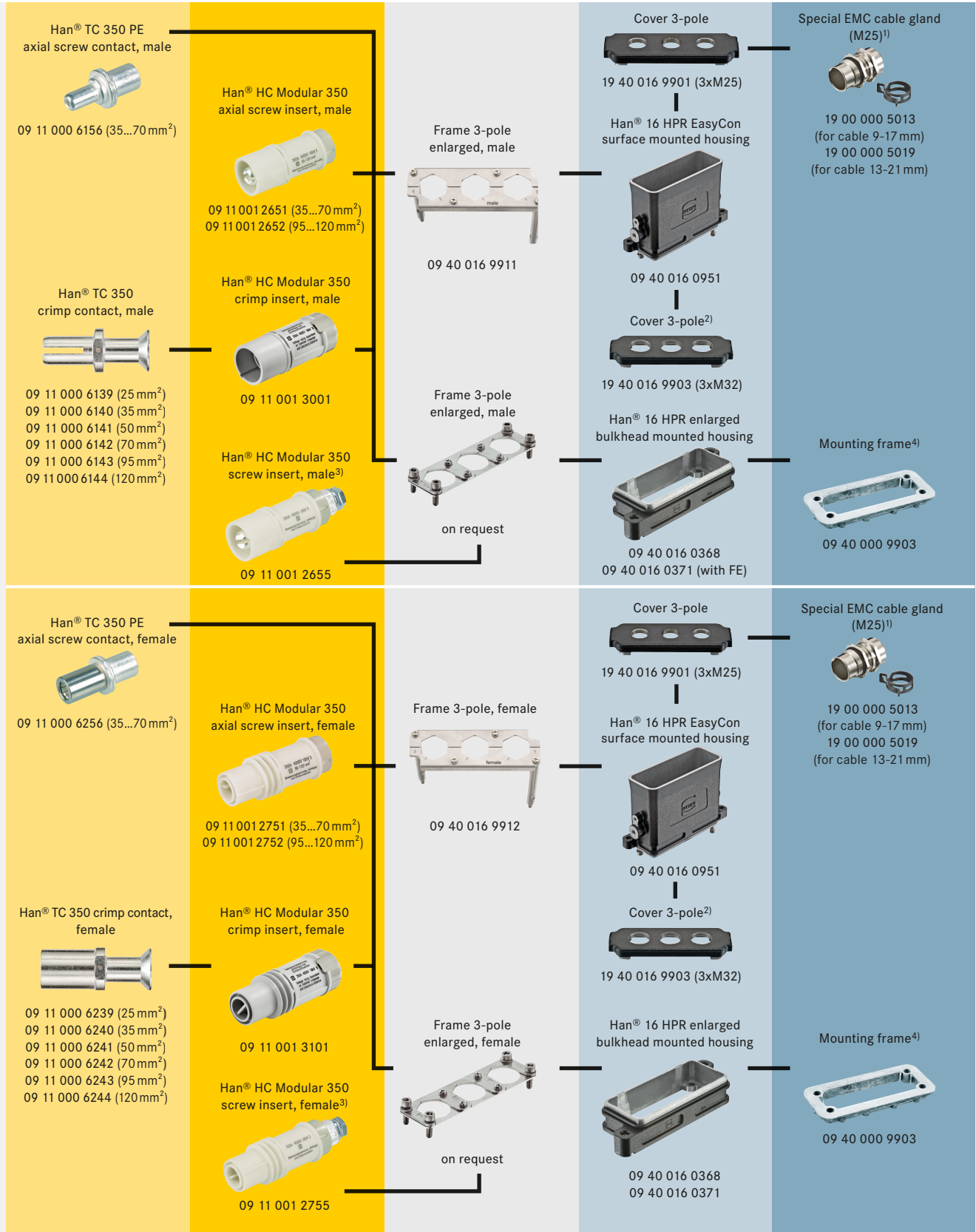
# Assembly options

## Han® HC Modular 350, 3-pole, with Han® 16 HPR EasyCon



<sup>1)</sup> Option, can be used for shielded cables

<sup>2)</sup> Cover requires special cable gland

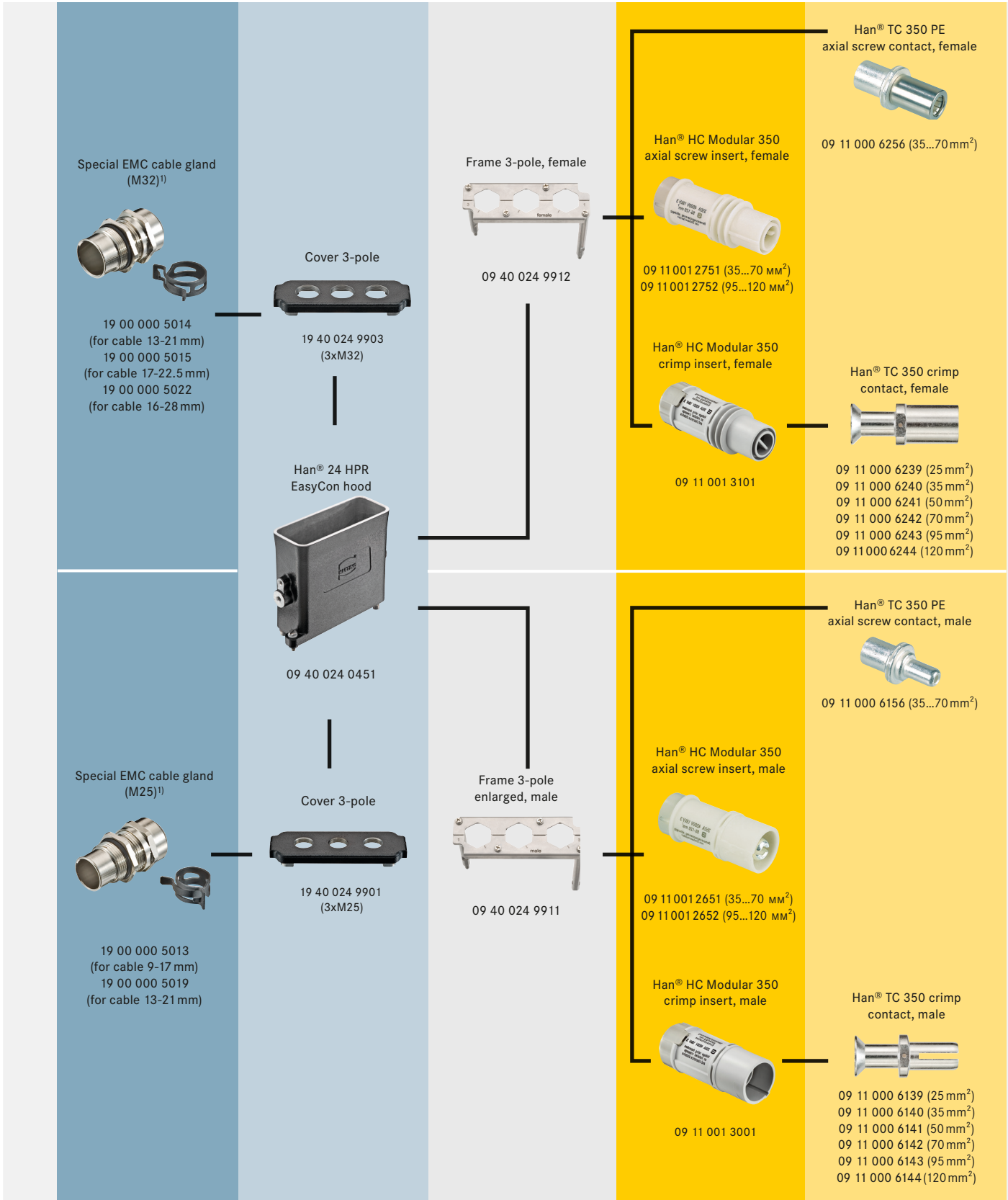


<sup>3)</sup> Can be used only in Han® HPR bulkhead mounted housing

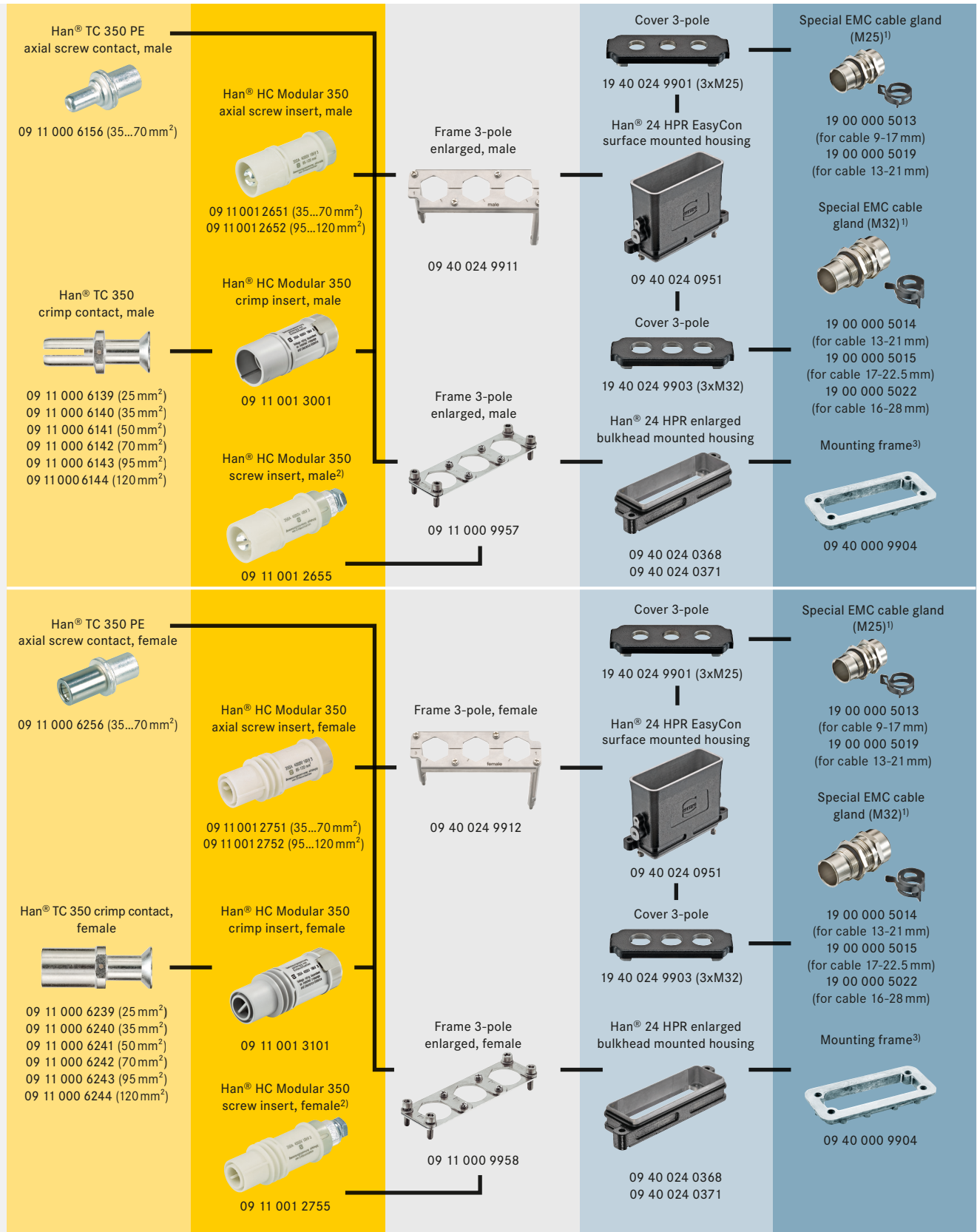
<sup>4)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 350, 3-pole, with Han® 24 HPR EasyCon



<sup>1)</sup> Option, can be used for shielded cables

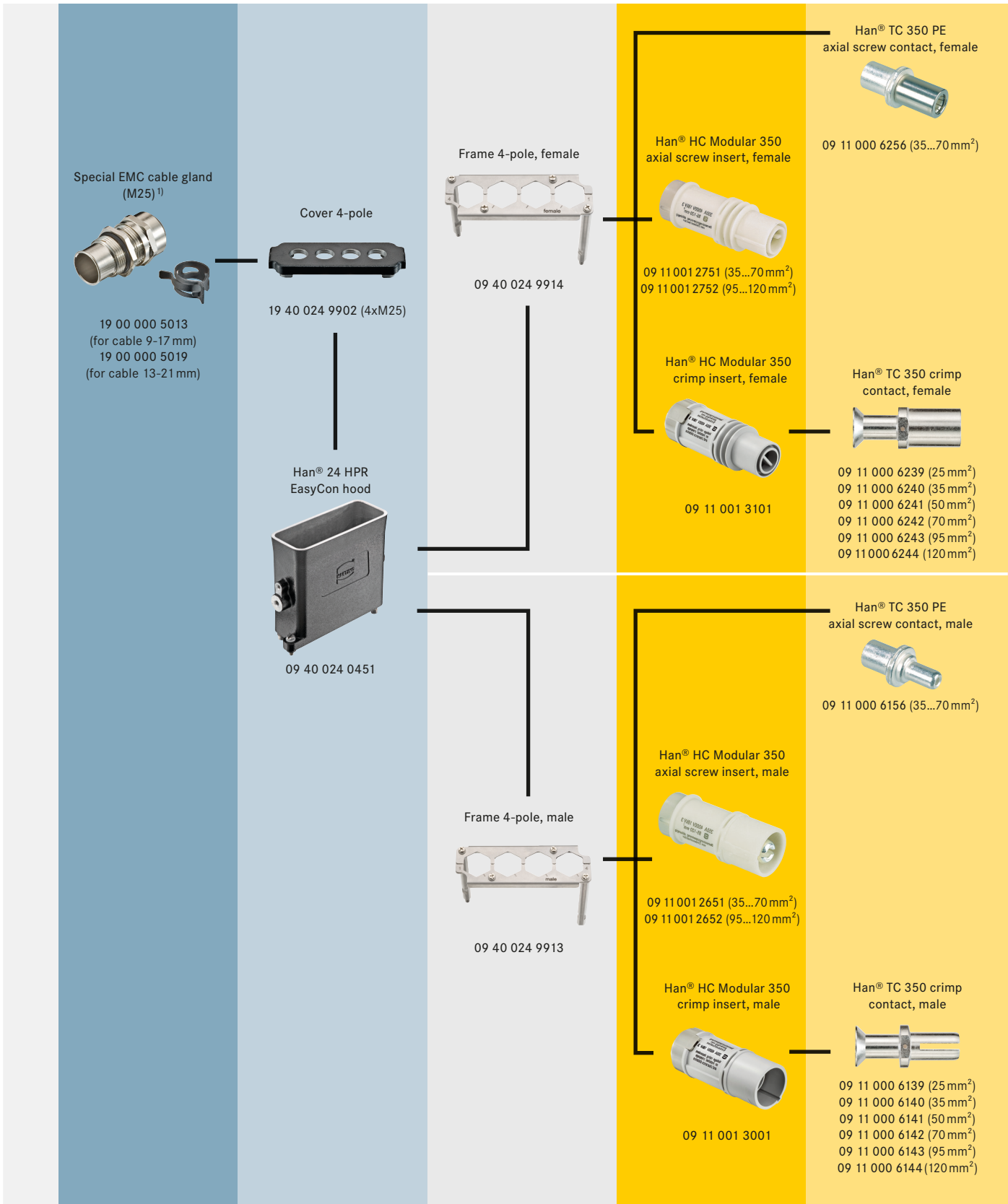


<sup>2)</sup> Can be used only in Han® HPR bulkhead mounted housing


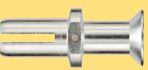









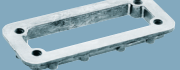












<sup>3)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 350, 4-pole, with Han® 24 HPR EasyCon



<sup>1)</sup> Option, can be used for shielded cables

|   |   |   |   |   |
|---|---|---|---|---|
| <p>Han® TC 350 PE axial screw contact, male</p>  <p>09 11 000 6156 (35...70mm<sup>2</sup>)</p> <p>Han® TC 350 crimp contact, male</p>  <p>09 11 000 6139 (25mm<sup>2</sup>)<br/>         09 11 000 6140 (35mm<sup>2</sup>)<br/>         09 11 000 6141 (50mm<sup>2</sup>)<br/>         09 11 000 6142 (70mm<sup>2</sup>)<br/>         09 11 000 6143 (95mm<sup>2</sup>)<br/>         09 11000 6144 (120mm<sup>2</sup>)</p>          | <p>Han® HC Modular 350 axial screw insert, male</p>  <p>09 11001 2651 (35...70mm<sup>2</sup>)<br/>         09 11001 2652 (95...120mm<sup>2</sup>)</p> <p>Han® HC Modular 350 crimp insert, male</p>  <p>09 11 001 3001</p> <p>Han® HC Modular 350 screw insert, male<sup>2)</sup></p>  <p>09 11 001 2655</p>           | <p>Frame 4-pole enlarged, male</p>  <p>09 40 024 9913</p> <p>Frame 4-pole enlarged, male</p>  <p>09 11 000 9964</p> | <p>Cover 4-pole</p>  <p>19 40 024 9902 (4xM25)</p> <p>Han® 24 HPR EasyCon surface mounted housing</p>  <p>09 40 024 0951</p> <p>Han® 24 HPR enlarged bulkhead mounted housing</p>  <p>09 40 024 0368<br/>         09 40 024 0371</p>      | <p>Special EMC cable gland (M25)<sup>1)</sup></p>  <p>19 00 000 5013 (for cable 9-17 mm)<br/>         19 00 000 5019 (for cable 13-21 mm)</p> <p>Mounting frame<sup>3)</sup></p>  <p>09 40 000 9904</p>     |
| <p>Han® TC 350 PE axial screw contact, female</p>  <p>09 11 000 6256 (35...70mm<sup>2</sup>)</p> <p>Han® TC 350 crimp contact, female</p>  <p>09 11 000 6239 (25mm<sup>2</sup>)<br/>         09 11 000 6240 (35mm<sup>2</sup>)<br/>         09 11 000 6241 (50mm<sup>2</sup>)<br/>         09 11 000 6242 (70mm<sup>2</sup>)<br/>         09 11 000 6243 (95mm<sup>2</sup>)<br/>         09 11 000 6244 (120mm<sup>2</sup>)</p> | <p>Han® HC Modular 350 axial screw insert, female</p>  <p>09 11001 2751 (35...70mm<sup>2</sup>)<br/>         09 11001 2752 (95...120mm<sup>2</sup>)</p> <p>Han® HC Modular 350 crimp insert, female</p>  <p>09 11 001 3101</p> <p>Han® HC Modular 350 screw insert, female<sup>2)</sup></p>  <p>09 11 001 2755</p> | <p>Frame 4-pole, female</p>  <p>09 40 024 9914</p> <p>Frame 4-pole enlarged, female</p>  <p>09 11 000 9965</p>  | <p>Cover 4-pole</p>  <p>19 40 024 9902 (4xM25)</p> <p>Han® 24 HPR EasyCon surface mounted housing</p>  <p>09 40 024 0951</p> <p>Han® 24 HPR enlarged bulkhead mounted housing</p>  <p>09 40 024 0368<br/>         09 40 024 0371</p> | <p>Special EMC cable gland (M25)<sup>1)</sup></p>  <p>19 00 000 5013 (for cable 9-17 mm)<br/>         19 00 000 5019 (for cable 13-21 mm)</p> <p>Mounting frame<sup>3)</sup></p>  <p>09 40 000 9904</p> |

<sup>2)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>3)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Han® HC Modular 350 with Han® 48 HPR

## Technical characteristics

| Hoods, housings & covers                         |  |
|--|--|
| Material:  | Aluminum die cast, corrosion resistant |
| Surface:   | Epoxy powder paint, black              |
| Material locking element:                        | Stainless steel                        |
| Size locking element:                            | M6                                     |
| Tightening torque locking element:               | 4 Nm                                   |
| Tightening torque fixing screws for covers (M6): | 4 Nm                                   |
| Material seal:                                   | NBR                                    |
| Limiting temperatures:                           | -40 °C....+125 °C                      |
| Corrosion resistance:                            | 500 h acc. to ASTM B117-09             |
| Degree of protection (for coupled connector):    | IP68 / IP69K                           |
| Frames   |  |
| Material:  | Stainless steel                        |
| Mounting frames                                  |  |
| Material:  | Aluminum die cast, corrosion resistant |
| Surface:   | without                                |
| Inserts  |  |
| Material:  | Polyamide and polycarbonate            |
| Rated voltage:                                   | 4000 V                                 |
| Rated impulse voltage:                           | 18 kV                                  |
| Pollution degree:                                | 3                                      |
| Insulation resistance:                           | ≥ 10 <sup>10</sup> Ω                   |
| Limiting temperatures:                           | -40 °C....+125 °C                      |
| Flammability acc. to UL 94:                      | V-0                                    |
| Mechanical working life:                         | ≥ 500 mating cycles                    |

| Axial screw contacts               |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 350 A               |
| Contact resistance:                | ≤ 0.2 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 19.5 mm             |
| Mechanical working life:           | ≥ 500 mating cycles |

| Termination area:   | Cross-section      | Stripping length | Tightening torque |
|---------------------|--------------------|------------------|-------------------|
|                     | 35 mm <sup>2</sup> | 19...20 mm       | 8 Nm              |
| 50 mm <sup>2</sup>  | 19...20 mm         | 10 Nm            |                   |
| 70 mm <sup>2</sup>  | 19...20 mm         | 12 Nm            |                   |
| 95 mm <sup>2</sup>  | 19...20 mm         | 14 Nm            |                   |
| 120 mm <sup>2</sup> | 19...20 mm         | 16 Nm            |                   |

| Crimp contacts                     |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 350 A               |
| Contact resistance:                | ≤ 0.3 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 22 mm               |
| Mechanical working life:           | ≥ 500 mating cycles |

| Crimp zone<br>(acc. to DIN 46 235) | Cross-section      | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46 235 |
|------------------------------------|--------------------|--------------|------------------|-----------------------------------|
|                                    | 25 mm <sup>2</sup> | 7.0 mm       | 26.0 mm          | 10                                |
| 35 mm <sup>2</sup>                 | 8.2 mm             | 26.0 mm      | 12               |                                   |
| 50 mm <sup>2</sup>                 | 10.0 mm            | 28.0 mm      | 14               |                                   |
| 70 mm <sup>2</sup>                 | 11.5 mm            | 28.0 mm      | 16               |                                   |
| 95 mm <sup>2</sup>                 | 13.5 mm            | 30.0 mm      | 18               |                                   |
| 120 mm <sup>2</sup>                | 15.5 mm            | 24.0 mm      | 20               |                                   |

| Screw contacts           |   |
|--------------------------|---|
| Material:                | Copper alloy                                  |
| Surface:                 | Silver  |
| Rated current:           | 350 A   |
| Contact resistance:      | ≤ 0.2 mΩ                                      |
| Wires:                   | For cable lugs up to max. 120 mm <sup>2</sup> |
| Mechanical working life: | ≥ 500 mating cycles                           |
| Screw thread:            | M10   |
| Wrench size:             | SW17 at contact / SW16 at screw               |
| Tightening torque:       | 14 Nm   |



## Tools

| Crimp tools  |                 |                         |                       |   |                         |                       |
|--|-----------------|-------------------------|-----------------------|---|-------------------------|-----------------------|
| Pressforce 60 kN<br>- Accu hydraulic tool (09 99 000 0850)<br>- Hand hydraulic tool (09 99 000 0851) |                 |                         |                       | Pressforce 120 kN<br>- Accu hydraulic tool (09 99 000 0860)<br>- Hand hydraulic tool (09 99 000 0861) |                         |                       |
|  |                 |                         |                       |   |                         |                       |
| Cross-section  | Width crimp die | Double crimp necessary? | Part number crimp die | Width crimp die   | Double crimp necessary? | Part number crimp die |
| 25 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0854        | 10 mm   | No                      | 09 99 000 0864        |
| 35 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0855        | 10 mm   | No                      | 09 99 000 0865        |
| 50 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0856        | 13 mm   | No                      | 09 99 000 0866        |
| 70 mm <sup>2</sup>   | 9 mm            | No                      | 10 99 000 0857        | 13 mm   | No                      | 09 99 000 0867        |
| 90 mm <sup>2</sup>   | -               | -                       | -                     | 14 mm   | No                      | 09 99 000 0868        |
| 120 mm <sup>2</sup>  | -               | -                       | -                     | 14 mm   | No                      | 09 99 000 0869        |

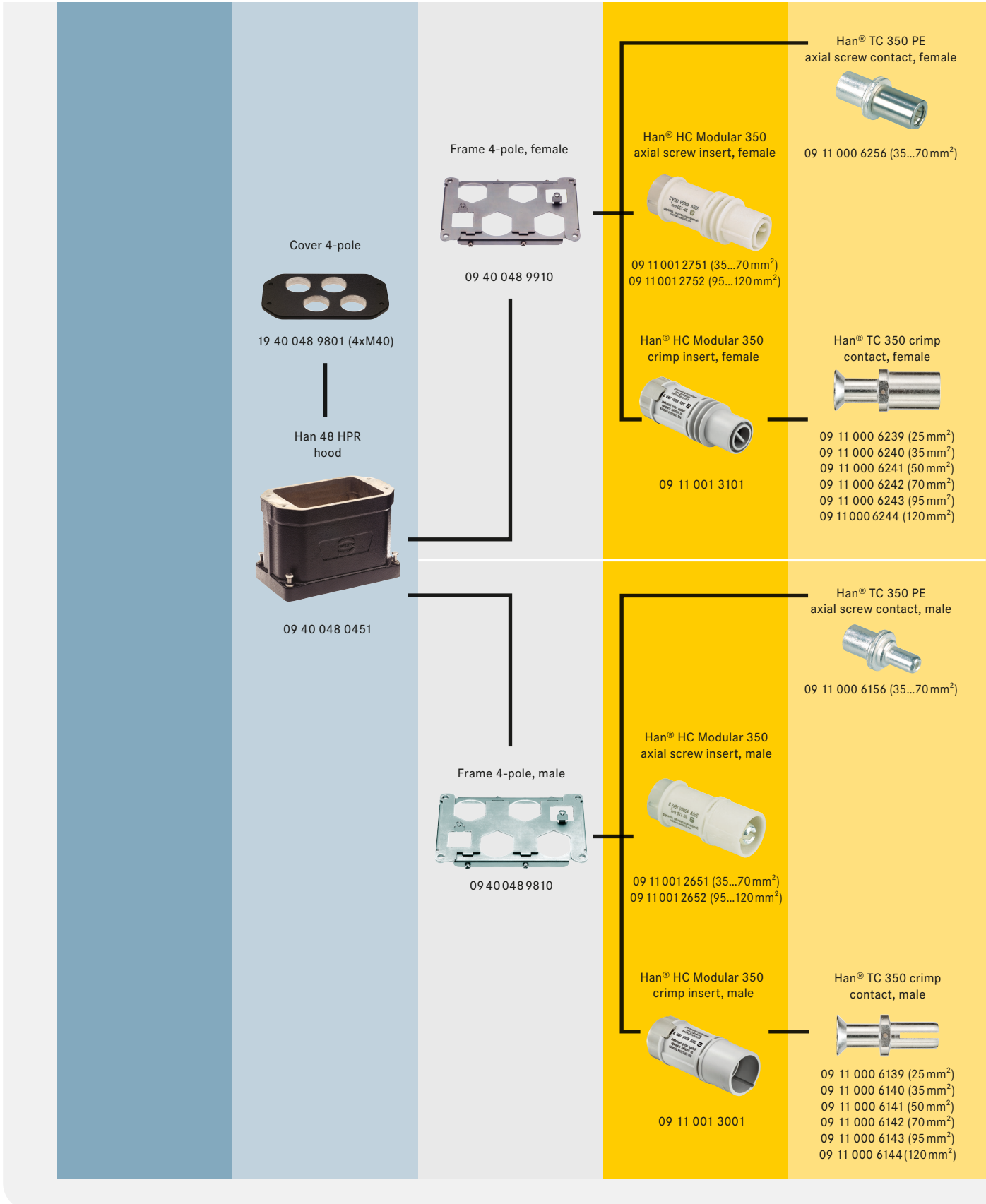
|  |  |
|--|--|
| <p>Han® Torque Tool Set for axial screw contacts</p> <p>09 99 000 0833</p> | <p>Hexagonal driver, adapter SW5</p> <p>09 99 000 0371</p> |
|--|--|

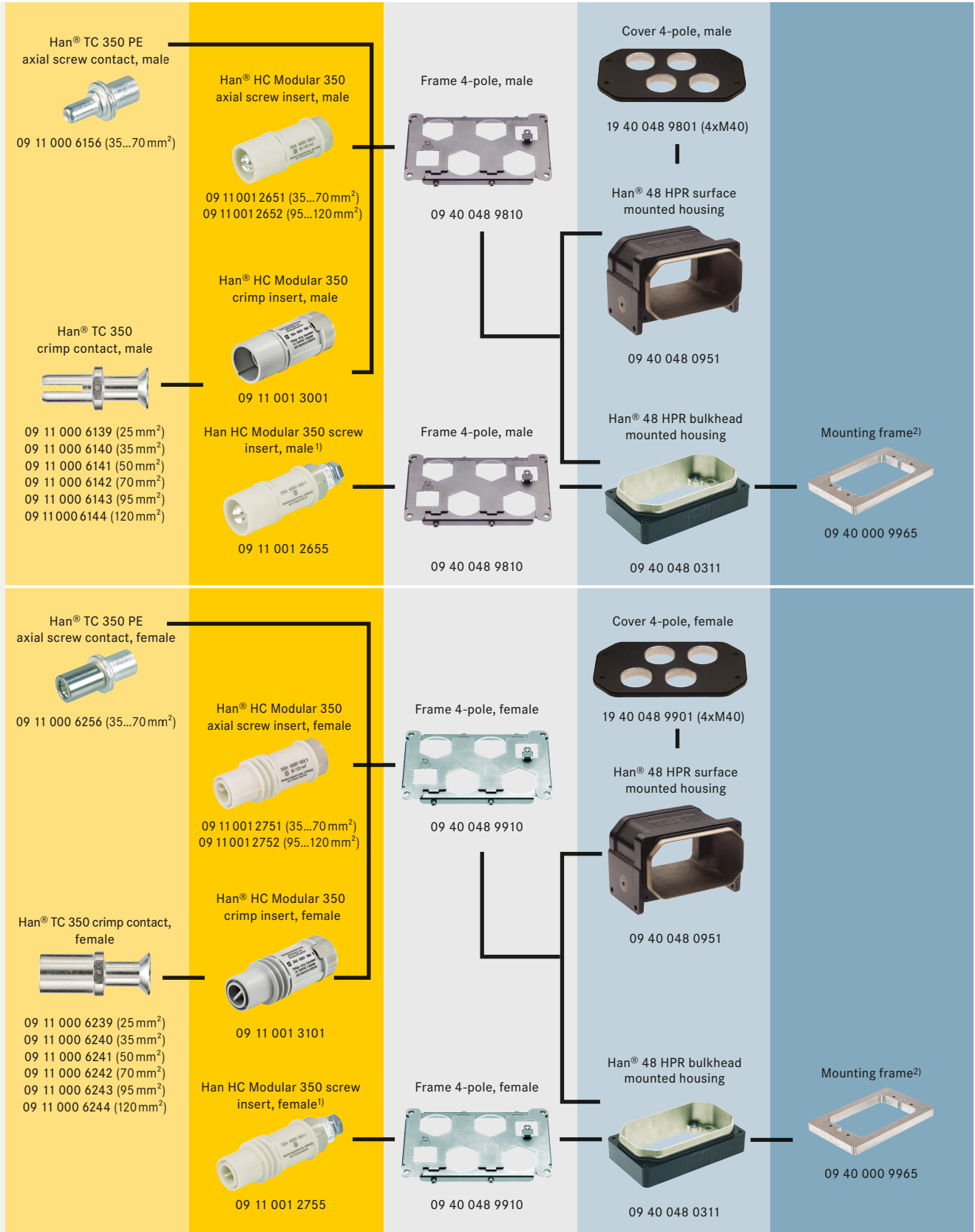
## Accessories

|  |
|--|
| <p>Cover for housing</p> <p>09 40 048 5401</p> |
|--|

# Assembly options

## Han® HC Modular 350, 4-pole, with Han® 48 HPR



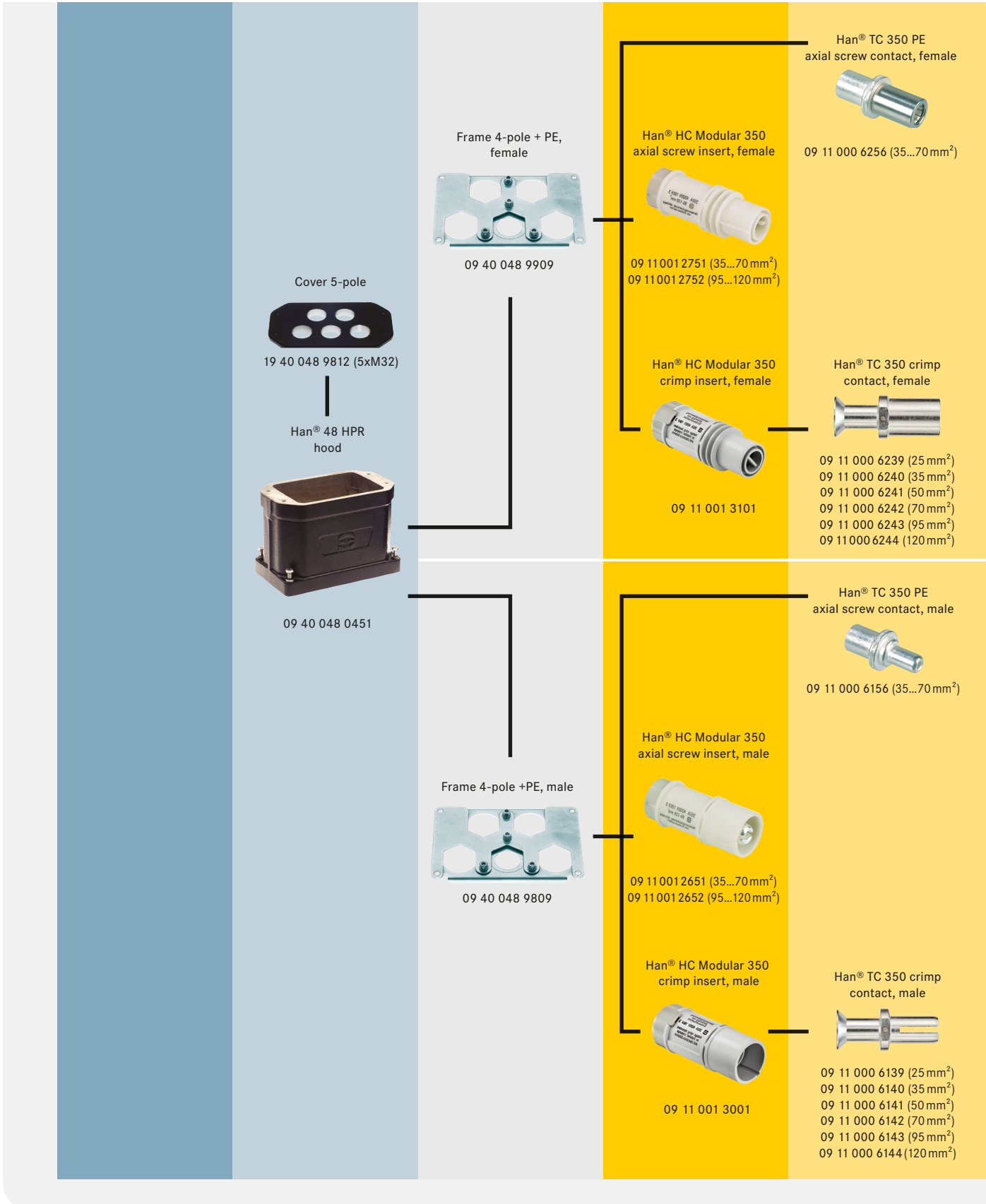


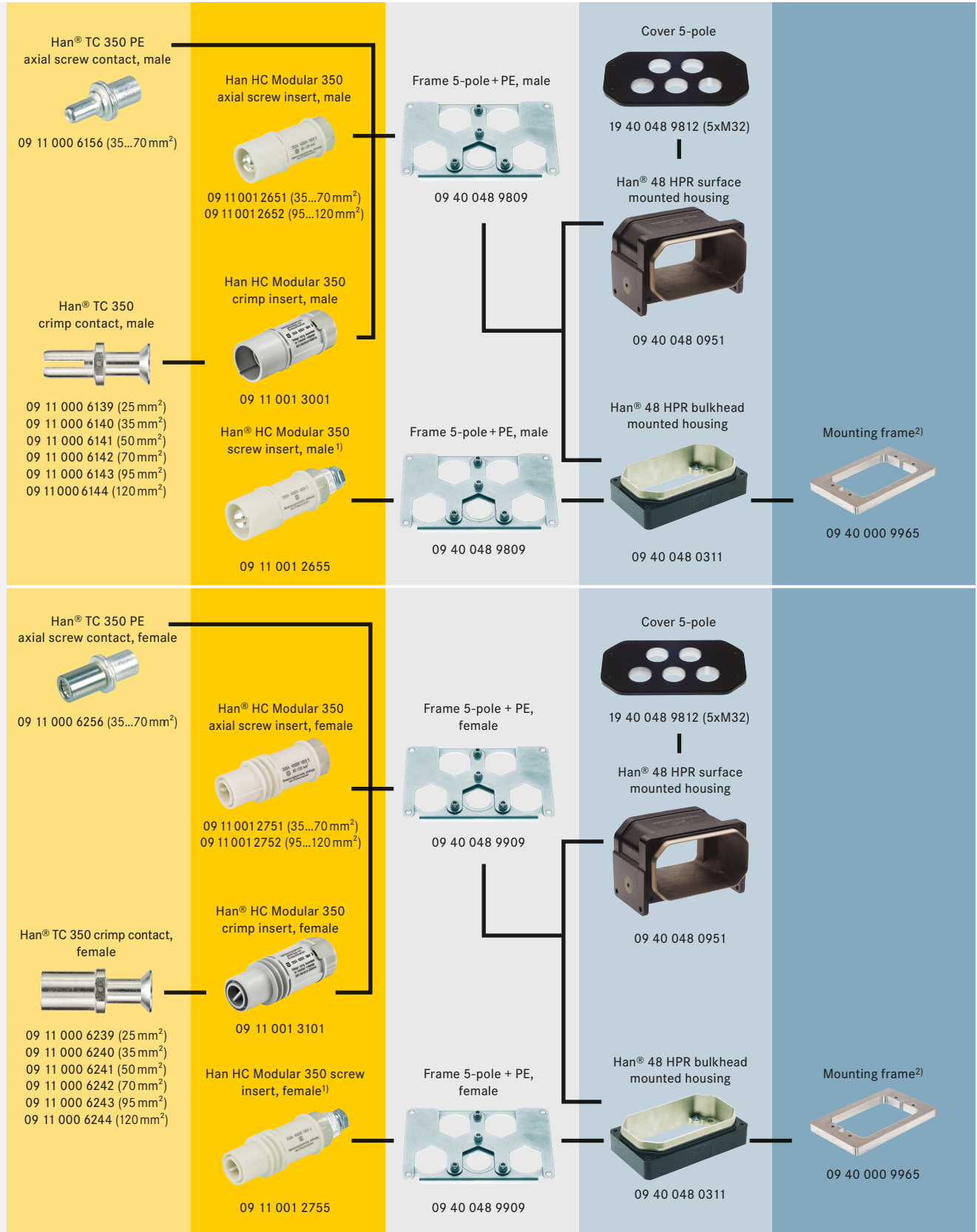
<sup>1)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>2)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 350, 4-pole + PE, with Han® 48 HPR



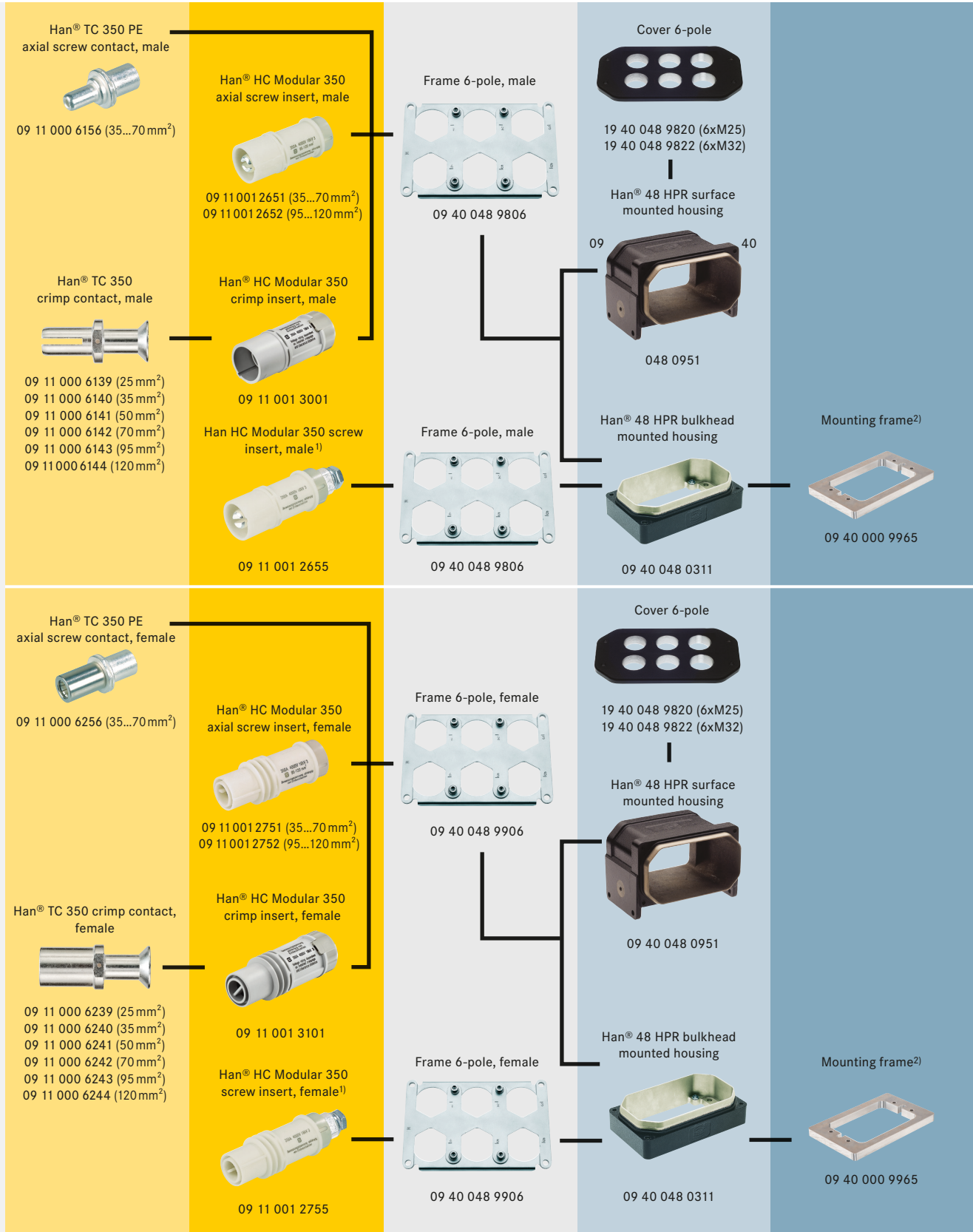


<sup>1)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>2)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 350, 6-pole, with Han® 48 HPR

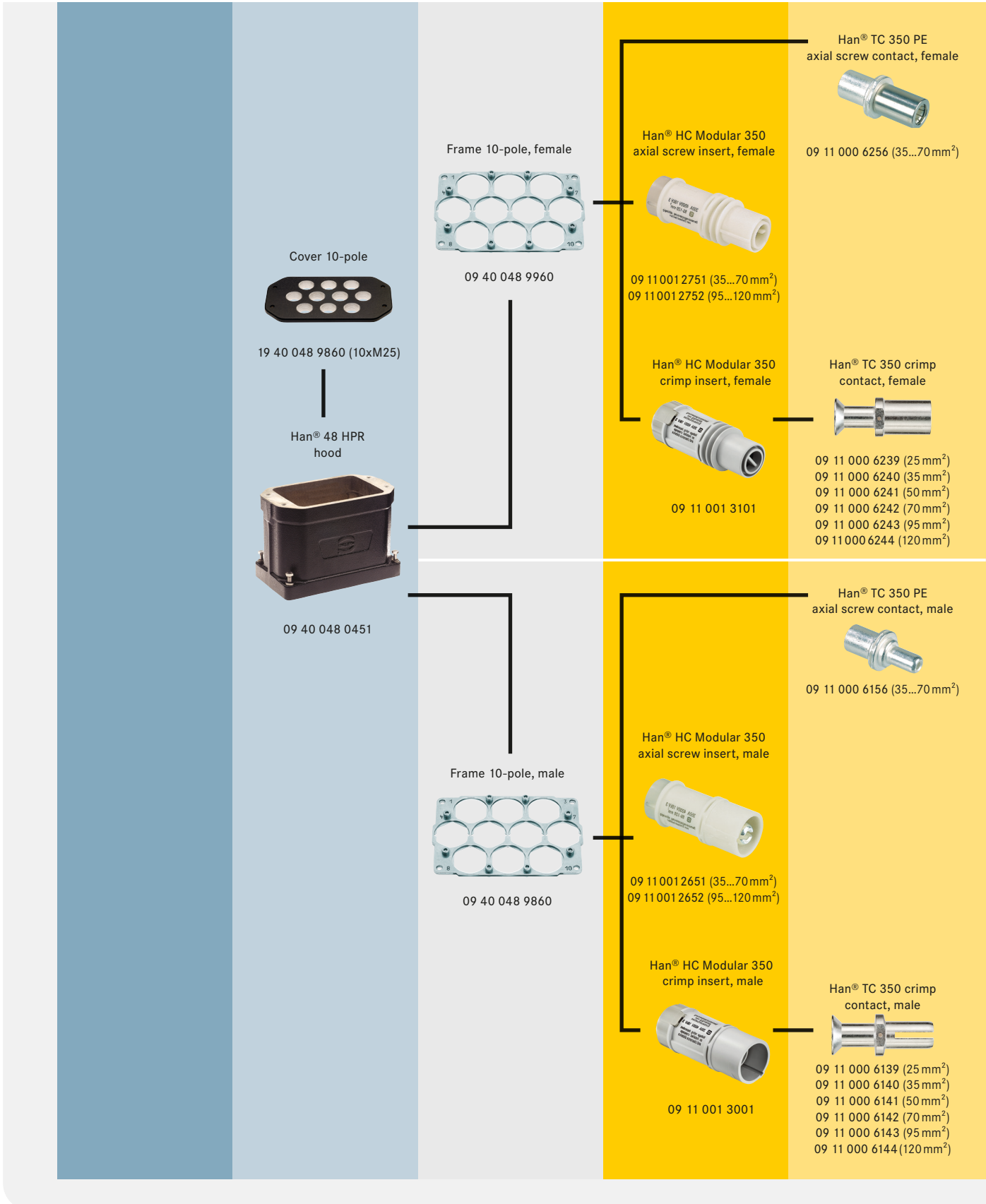


<sup>1)</sup> Can be used only in Han® HPR bulkhead mounted housing

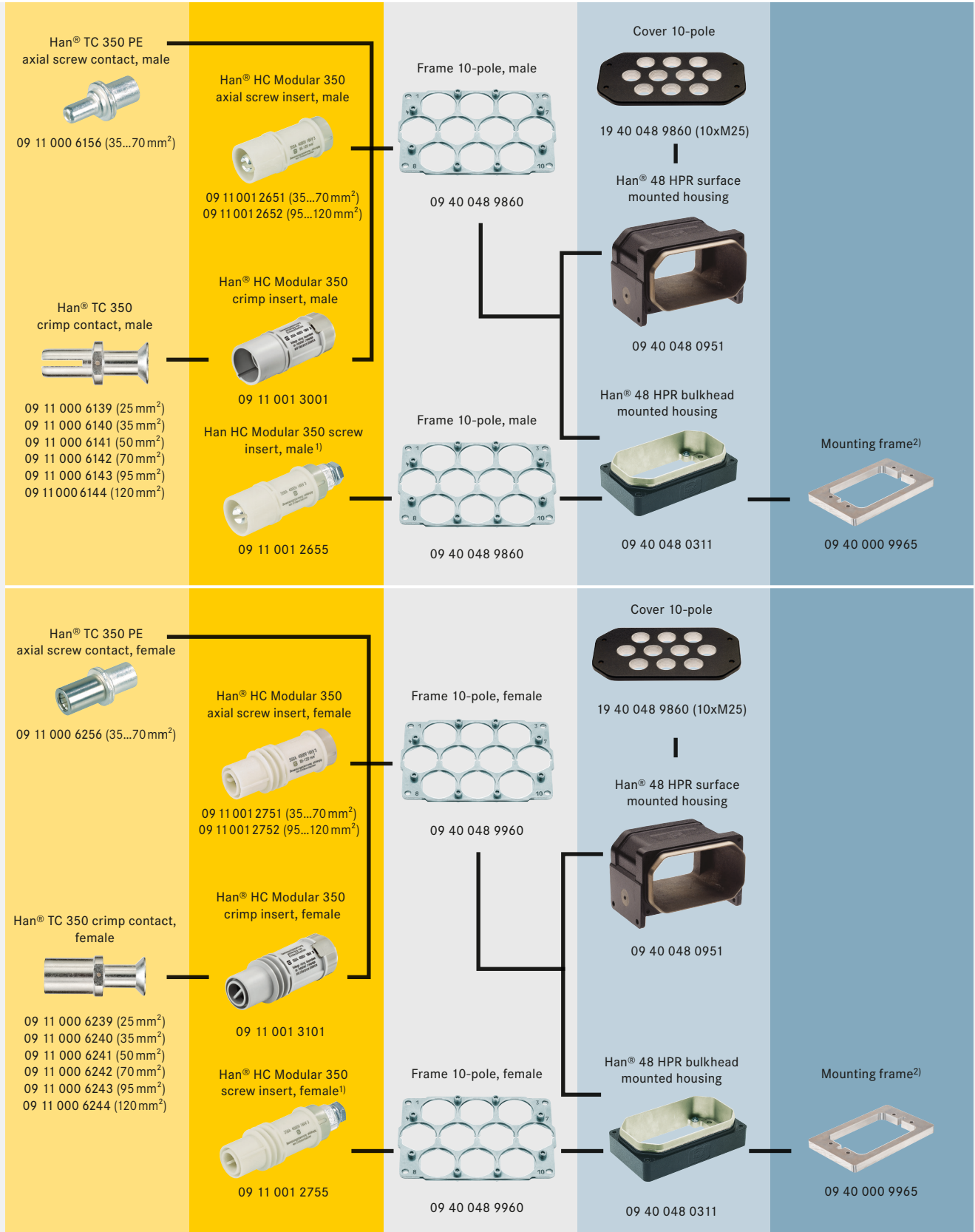
<sup>2)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Assembly options

## Han® HC Modular 350, 10-pole, with Han® 48 HPR







<sup>1)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>2)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Han® HC Modular 650 with Han® HPR

## Technical characteristics

| Hoods, housings and covers                    |  |
|---|--|
| Material:                                     | Aluminum die cast, corrosion resistant         |
| Surface:                                      | Epoxy powder paint, black                      |
| Material locking element:                     | Stainless steel                                |
| Size locking element:                         | M6   |
| Tightening torque locking element:            | 4 Nm   |
| Material seal:                                | NBR  |
| Limiting temperatures:                        | -40 °C ... +125 °C                             |
| Corrosion resistance:                         | 500 h acc. to ASTM B117-09                     |
| Degree of protection (for coupled connector): | IP68 / IP69K                                   |
| Frames  |  |
| Material:                                     | Stainless steel                                |
| Tightening torque fixing screws (M3):         | 0,5 Nm   |
| Tightening torque fixing screws (M4):         | 1,5 Nm   |
| Mounting frames                               |  |
| Material:                                     | Aluminum die cast, corrosion resistant         |
| Surface:                                      | without  |
| Tightening torque for fixing holes (M8):      | 10 Nm  |
| Hexagonal adapter                             |  |
| Material:                                     | Brass  |
| Surface:                                      | Nickel plated                                  |
| Tightening torque:                            | 15 Nm (for M25 parts)<br>20 Nm (for M32 parts) |
| Material seal:                                | NBR  |
| Inserts                                       |  |
| Material:                                     | Polyamide and polycarbonate                    |
| Rated voltage:                                | 4000 V   |
| Rated impulse voltage:                        | 18 kV  |
| Pollution degree:                             | 3  |
| Insulation resistance:                        | $\geq 10^{10} \Omega$                          |
| Limiting temperatures:                        | -40 °C...+125 °C                               |
| Flammability acc. to UL 94:                   | V-0  |
| Mechanical working life:                      | $\geq 500$ mating cycles                       |

| Axial screw contacts               |                            |
|------------------------------------|----------------------------|
| Material:                          | Copper alloy               |
| Surface:                           | Silver                     |
| Rated current:                     | 650 A                      |
| Contact resistance:                | $\leq 0.2 \text{ m}\Omega$ |
| Stranded wires acc. to IEC 60 228: | Class 5                    |
| Max. insulation diameter of cable: | 26.5 mm                    |
| Mechanical working life:           | $\geq 500$ mating cycles   |

| Termination area: | Cross-section       | Stripping length | Tightening torque |
|-------------------|---------------------|------------------|-------------------|
|                   | 70 mm <sup>2</sup>  | 23...25 mm       | 12 Nm             |
|                   | 95 mm <sup>2</sup>  | 23...25 mm       | 14 Nm             |
|                   | 120 mm <sup>2</sup> | 23...25 mm       | 16 Nm             |
|                   | 150 mm <sup>2</sup> | 23...25 mm       | 17 Nm             |
|                   | 185 mm <sup>2</sup> | 23...25 mm       | 19 Nm             |

| Screw contacts           |   |
|--------------------------|---|
| Material:                | Copper alloy                                  |
| Surface:                 | Silver  |
| Rated current:           | 650 A   |
| Contact resistance:      | $\leq 0.2 \text{ m}\Omega$                    |
| Wires:                   | For cable lugs up to max. 240 mm <sup>2</sup> |
| Mechanical working life: | $\geq 500$ mating cycles                      |
| Screw thread:            | M12   |
| Wrench size:             | SW18 at contact<br>SW24 at screw              |
| Tightening torque:       | 16...18 Nm                                    |

| Crimp contacts                     |                                       |
|------------------------------------|---------------------------------------|
| Material:                          | Copper alloy                          |
| Surface:                           | Silver                                |
| Rated current:                     | 650 A                                 |
| Contact resistance:                | $\leq 0.3 \text{ m}\Omega$            |
| Stranded wires acc. to IEC 60 228: | Class 5                               |
| Max. insulation diameter of cable: | 27 mm (32 mm for 240mm <sup>2</sup> ) |
| Mechanical working life:           | $\geq 500$ mating cycles              |

| Crimp zone<br><br>(acc. to DIN 46 235) | Cross-section       | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46 235 |
|--|---------------------|--------------|------------------|-----------------------------------|
|  | 70 mm <sup>2</sup>  | 11.5 mm      | 42.0 mm          | 16                                |
|  | 95 mm <sup>2</sup>  | 13.5 mm      | 42.0 mm          | 18                                |
|  | 120 mm <sup>2</sup> | 15.5 mm      | 42.0 mm          | 20                                |
|  | 150 mm <sup>2</sup> | 17.0 mm      | 42.0 mm          | 22                                |
|  | 185 mm <sup>2</sup> | 19.0 mm      | 42.0 mm          | 25                                |
|  | 240 mm <sup>2</sup> | 21.5 mm      | 46.0 mm          | 28                                |

## Tools

| Crimp tools   |                 |                         |  |  |                         |  |
|---|-----------------|-------------------------|--|--|-------------------------|--|
| Pressforce 60 kN  |                 |                         |  | Pressforce 120 kN  |                         |  |
| - Accu hydraulic tool (09 99 000 0850)<br>- Hand hydraulic tool (09 99 000 0851)  |                 |                         |  | - Accu hydraulic tool (09 99 000 0860)<br>- Hand hydraulic tool (09 99 000 0861)   |                         |  |
|  |                 |                         |  |  |                         |  |
| Cross-section   | Width crimp die | Double crimp necessary? | Part number crimp die  | Width crimp die  | Double crimp necessary? | Part number crimp die  |
| 70 mm <sup>2</sup>  | 9 mm            | No                      | <br>09 99 000 0857 | 13 mm  | No                      | <br>09 99 000 0867 |
| 95 mm <sup>2</sup>  | -               | -                       | -  | 14 mm  | No                      | 09 99 000 0868   |
| 120 mm <sup>2</sup>   | -               | -                       | -  | 14 mm  | No                      | 09 99 000 0869   |
| 150 mm <sup>2</sup>   | -               | -                       | -  | 10 mm  | Yes                     | 09 99 000 0870   |
| 185 mm <sup>2</sup>   | -               | -                       | -  | 10 mm  | Yes                     | 09 99 000 0871   |
| 240 mm <sup>2</sup>   | -               | -                       | -  | 10 mm  | Yes                     | 09 99 000 0872   |

Hexagonal driver, adapter SW8



09 99 000 0372

## Accessories

Cover for housing



09 40 024 5411 (for Han® 24 HPR)  
09 40 006 5411 (for Han® 6 HPR)

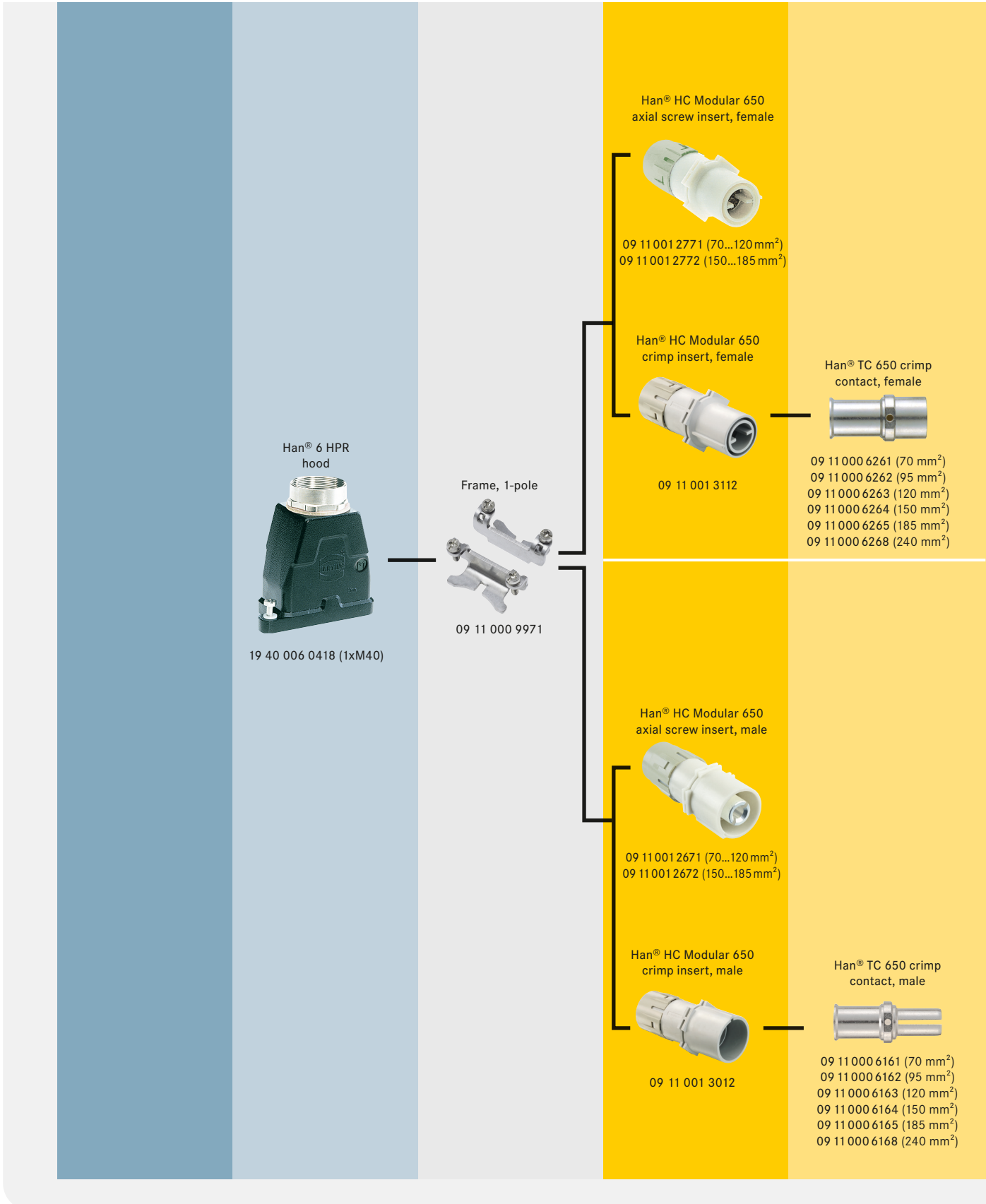
Cover for hood

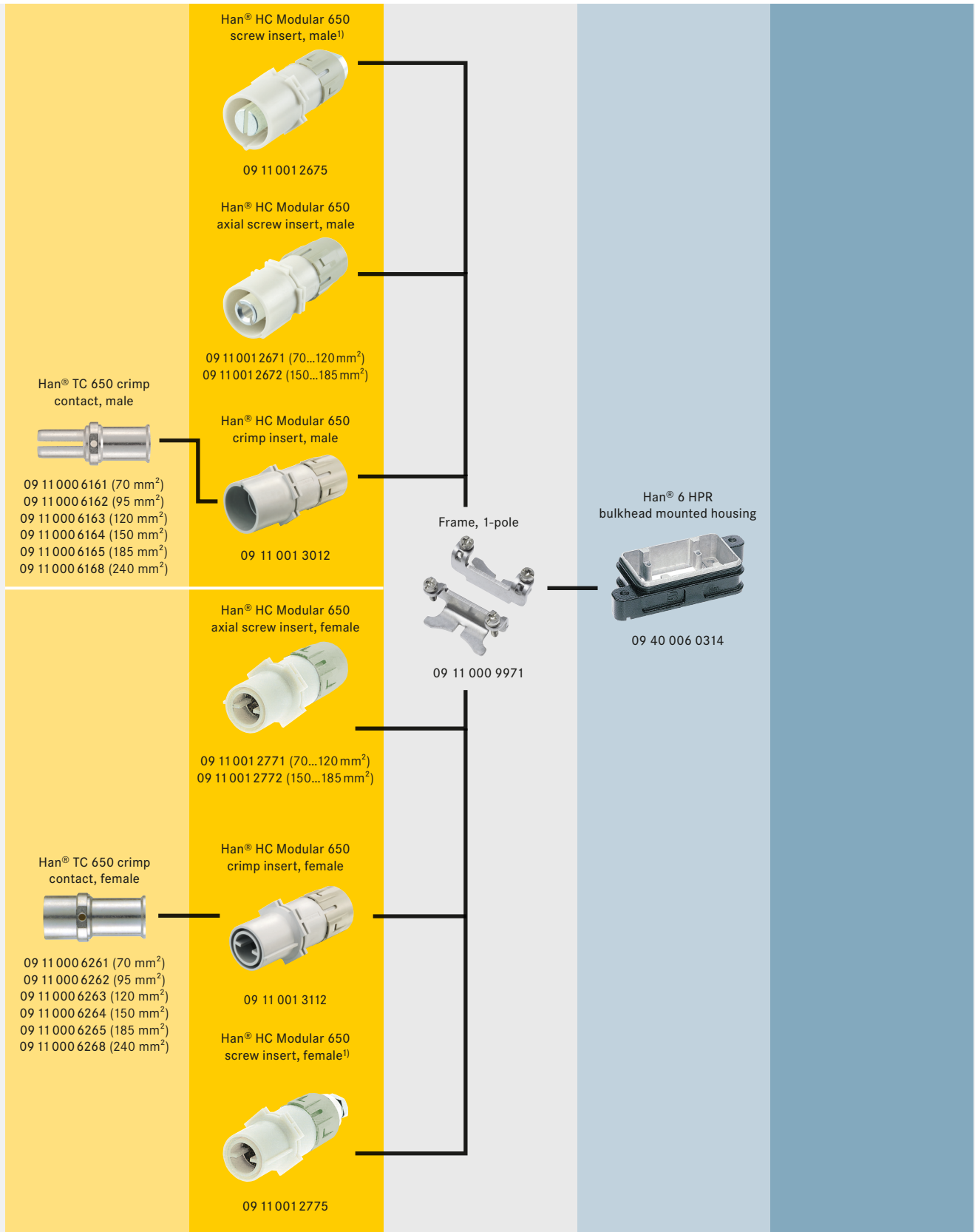


09 40 024 5414 (for Han® 24 HPR)  
09 40 006 5414 (for Han® 6 HPR)

# Assembly options

## Han® HC Modular 650, 1-pole, with Han® 6 HPR

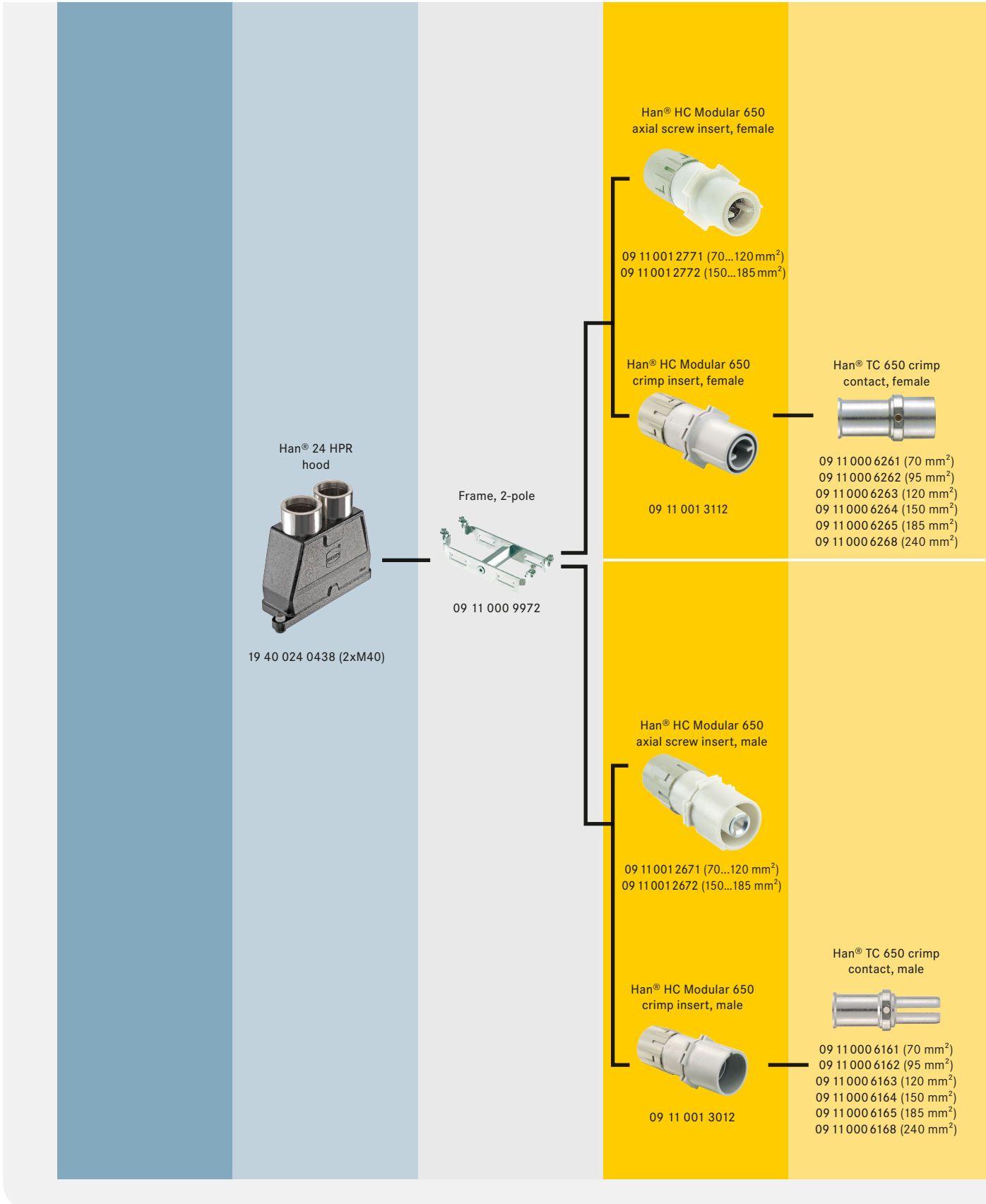


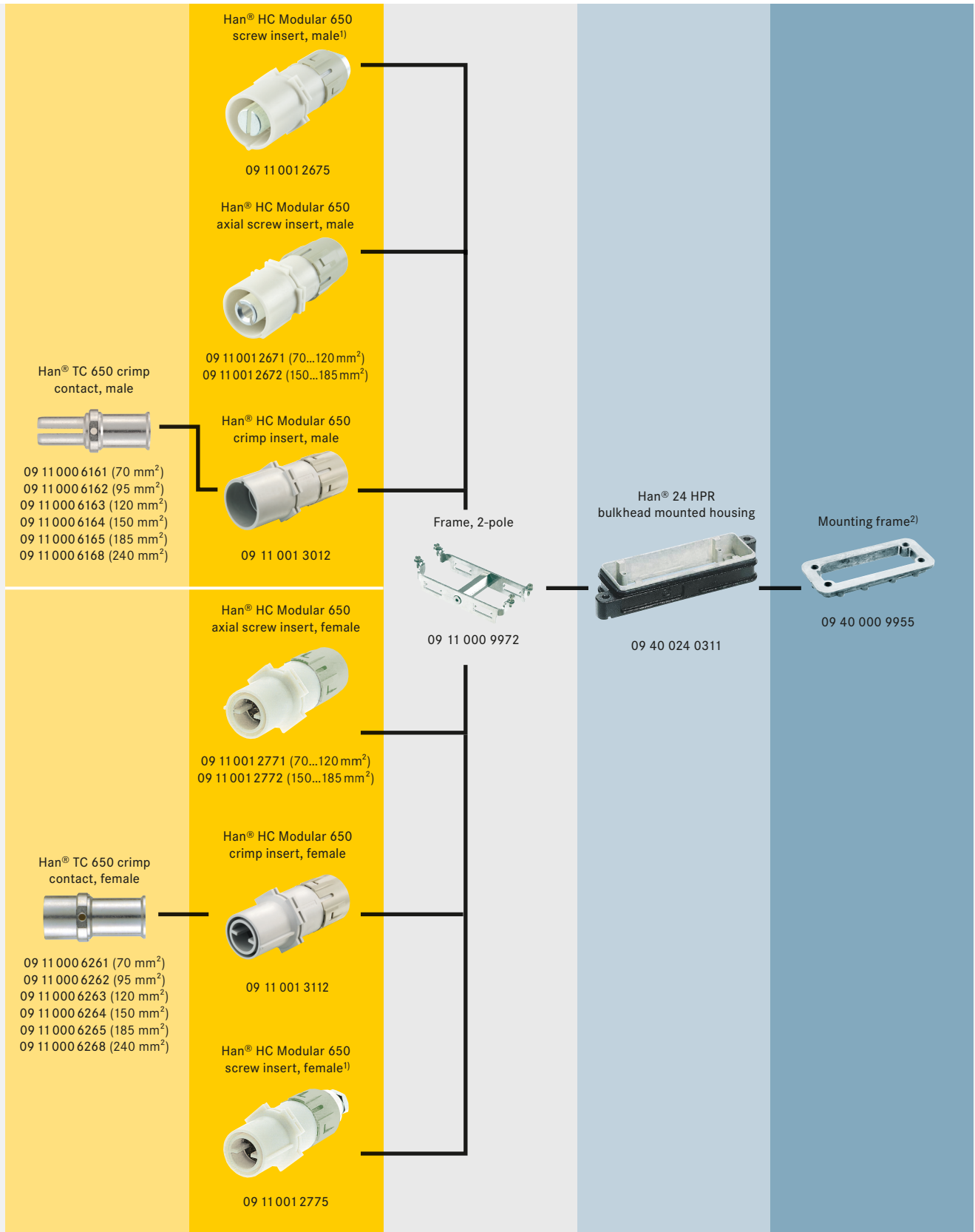


<sup>1)</sup> Can be used only in Han® HPR bulkhead mounted housing

# Assembly options

## Han® HC Modular 650, 2-pole, with Han® 24 HPR





<sup>1)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>2)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Han® HC Modular 650 with Han® HPR enlarged

## Technical characteristics

| Hoods, housings and covers                    |  |
|---|--|
| Material:                                     | Aluminum die cast, corrosion resistant         |
| Surface:                                      | Epoxy powder paint, black                      |
| Material locking element:                     | Stainless steel                                |
| Size locking element:                         | M6   |
| Tightening torque locking element:            | 4 Nm   |
| Material seal:                                | NBR  |
| Limiting temperatures:                        | -40 °C... +125 °C                              |
| Corrosion resistance:                         | 500 h acc. to ASTM B117-09                     |
| Degree of protection (for coupled connector): | IP68 / IP69K                                   |
| Frames  |  |
| Material:                                     | Stainless steel                                |
| Tightening torque fixing screws (M4):         | 1.5 Nm   |
| Tightening torque fixing screws (M6):         | 10 Nm  |
| Mounting frames                               |  |
| Material:                                     | Aluminum die cast, corrosion resistant         |
| Surface:                                      | without  |
| Tightening torque for fixing holes (M6):      | 10 Nm  |
| Hexagonal adapter                             |  |
| Material:                                     | Brass  |
| Surface:                                      | Nickel plated                                  |
| Tightening torque                             | 15 Nm (for M25 parts)<br>20 Nm (for M32 parts) |
| Material seal:                                | NBR  |
| Inserts                                       |  |
| Material:                                     | Polyamide and polycarbonate                    |
| Rated voltage:                                | 4000 V   |
| Rated impulse voltage:                        | 18 kV  |
| Pollution degree:                             | 3  |
| Insulation resistance:                        | ≥ 10 <sup>10</sup> Ω                           |
| Limiting temperatures:                        | -40 °C... +125 °C                              |
| Flammability acc. to UL 94:                   | V-0  |
| Mechanical working life:                      | ≥ 500 mating cycles                            |

| Axial screw contacts               |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 650 A               |
| Contact resistance:                | ≤ 0.2 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 26.5 mm             |
| Mechanical working life:           | ≥ 500 mating cycles |

| Termination area:   | Cross-section      | Stripping length | Tightening torque |
|---------------------|--------------------|------------------|-------------------|
|                     | 70 mm <sup>2</sup> | 23...25 mm       | 12 Nm             |
| 95 mm <sup>2</sup>  | 23...25 mm         | 14 Nm            |                   |
| 120 mm <sup>2</sup> | 23...25 mm         | 16 Nm            |                   |
| 150 mm <sup>2</sup> | 23...25 mm         | 17 Nm            |                   |
| 185 mm <sup>2</sup> | 23...25 mm         | 19 Nm            |                   |

| Screw contacts           |   |
|--------------------------|---|
| Material:                | Copper alloy                                  |
| Surface:                 | Silver  |
| Rated current:           | 650 A   |
| Contact resistance:      | ≤ 0.2 mΩ                                      |
| Wires:                   | For cable lugs up to max. 240 mm <sup>2</sup> |
| Mechanical working life: | ≥ 500 mating cycles                           |
| Screw thread:            | M12   |
| Wrench size:             | SW18 at contact, SW24 at screw                |
| Tightening torque:       | 16...18 Nm                                    |

| Crimp contacts                     |  |
|------------------------------------|--|
| Material:                          | Copper alloy                           |
| Surface:                           | Silver                                 |
| Rated current:                     | 650 A                                  |
| Contact resistance:                | ≤ 0.3 mΩ                               |
| Stranded wires acc. to IEC 60 228: | Class 5                                |
| Max. insulation diameter of cable: | 27 mm (32 mm for 240 mm <sup>2</sup> ) |
| Mechanical working life:           | ≥ 500 mating cycles                    |

| Crimp zone<br><br>(acc. to DIN 46 235) | Cross-section      | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46 235 |
|--|--------------------|--------------|------------------|-----------------------------------|
|  | 70 mm <sup>2</sup> | 11.5 mm      | 42.0 mm          | 16                                |
| 95 mm <sup>2</sup>                     | 13.5 mm            | 42.0 mm      | 18               |                                   |
| 120 mm <sup>2</sup>                    | 15.5 mm            | 42.0 mm      | 20               |                                   |
| 150 mm <sup>2</sup>                    | 17.0 mm            | 42.0 mm      | 22               |                                   |
| 185 mm <sup>2</sup>                    | 19.0 mm            | 42.0 mm      | 25               |                                   |
| 240 mm <sup>2</sup>                    | 21.5 mm            | 46.0 mm      | 28               |                                   |



## Tools

| Crimp tools   |                 |                         |                       |  |                         |                       |
|---|-----------------|-------------------------|-----------------------|--|-------------------------|-----------------------|
| Pressforce 60 kN  |                 |                         |                       | Pressforce 120 kN  |                         |                       |
| - Accu hydraulic tool (09 99 000 0850)  |                 |                         |                       | - Accu hydraulic tool (09 99 000 0860)   |                         |                       |
| - Hand hydraulic tool (09 99 000 0851)  |                 |                         |                       | - Hand hydraulic tool (09 99 000 0861)   |                         |                       |
|  |                 |                         |                       |  |                         |                       |
| Cross-section   | Width crimp die | Double crimp necessary? | Part number crimp die | Width crimp die  | Double crimp necessary? | Part number crimp die |
| 70 mm <sup>2</sup>  | 9 mm            | No                      | 09 99 000 0857        | 13 mm  | No                      | 09 99 000 0867        |
| 95 mm <sup>2</sup>  | -               | -                       | -                     | 14 mm  | No                      | 09 99 000 0868        |
| 120 mm <sup>2</sup>   | -               | -                       | -                     | 14 mm  | No                      | 09 99 000 0869        |
| 150 mm <sup>2</sup>   | -               | -                       | -                     | 10 mm  | Yes                     | 09 99 000 0870        |
| 185 mm <sup>2</sup>   | -               | -                       | -                     | 10 mm  | Yes                     | 09 99 000 0871        |
| 240 mm <sup>2</sup>   | -               | -                       | -                     | 10 mm  | Yes                     | 09 99 000 0872        |

Hexagonal driver, adapter SW8



09 99 000 0372

## Accessories

Cover for housing



09 40 024 5411

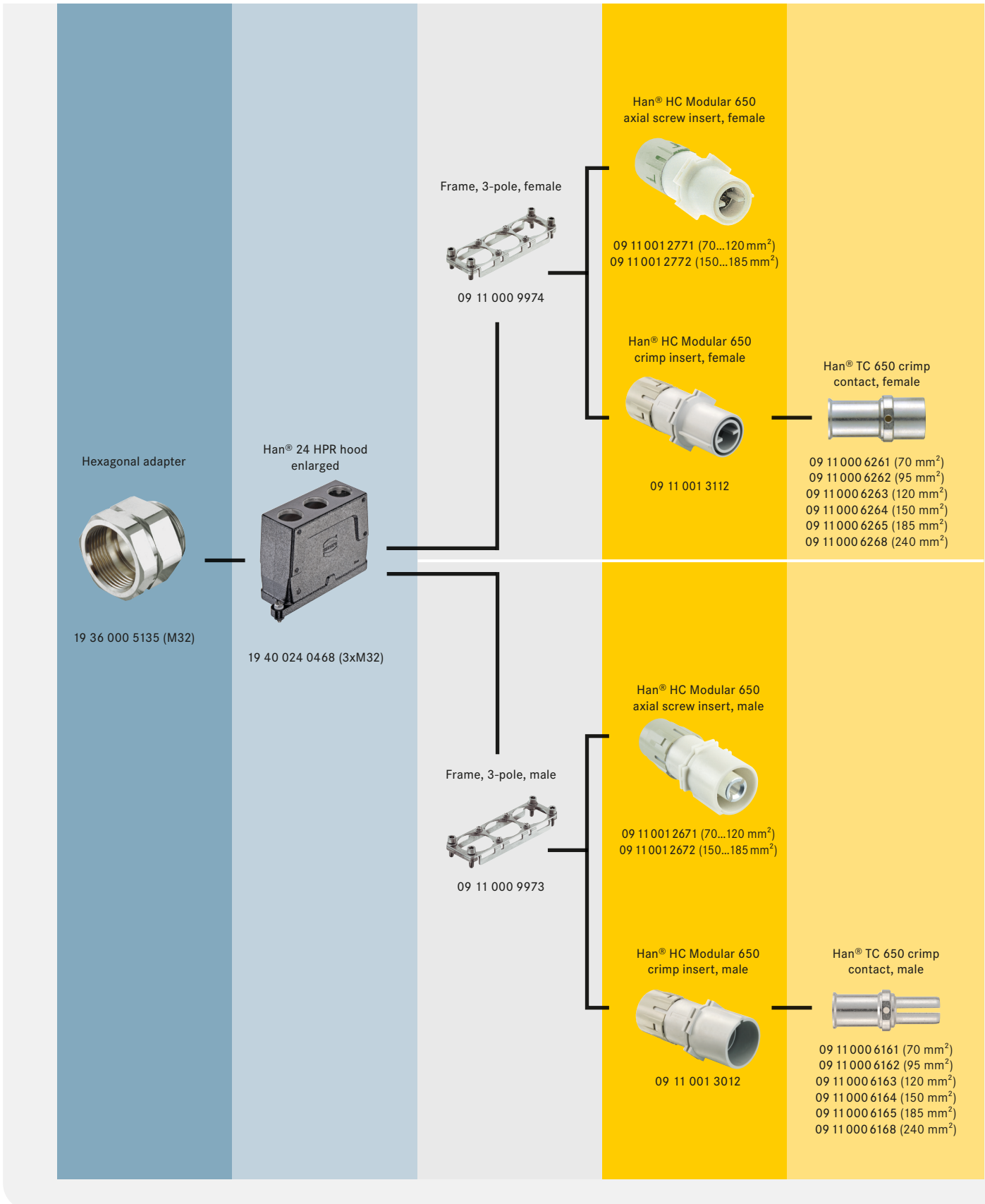
Cover for hood








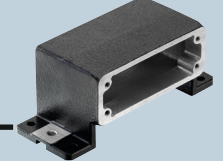









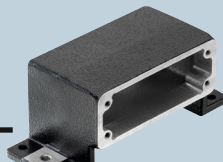
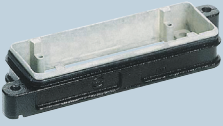
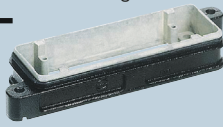




09 40 024 5414

## Assembly options

### Han® HC Modular 650, 3-pole, with Han® 24 HPR enlarged



|   |  |   |  |  |
|---|--|---|--|--|
| <p>Han® TC 650 crimp contact, male</p>  <p>09 11 000 6161 (70 mm<sup>2</sup>)<br/>09 11 000 6162 (95 mm<sup>2</sup>)<br/>09 11 000 6163 (120 mm<sup>2</sup>)<br/>09 11 000 6164 (150 mm<sup>2</sup>)<br/>09 11 000 6165 (185 mm<sup>2</sup>)<br/>09 11 000 6168 (240 mm<sup>2</sup>)</p>    | <p>Han® HC Modular 650 screw insert, male<sup>1)</sup></p>  <p>09 11 001 2675</p> <p>Han® HC Modular 650 axial screw insert, male</p>  <p>09 11 001 2671 (70...120 mm<sup>2</sup>)<br/>09 11 001 2672 (150...185 mm<sup>2</sup>)</p> <p>Han HC Modular 650 crimp insert, male</p>  <p>09 11 001 3012</p>             | <p>Frame, 3-pole, male</p>  <p>09 11 000 9973</p> <p>Frame, 3-pole, male</p>  <p>09 11 000 9973</p>       | <p>Han® 24 HPR bulkhead mounted housing, enlarged</p>  <p>09 40 024 0368<br/>09 40 024 0371</p> <p>Han® 24 HPR surface mounted housing, horizontal version</p>  <p>19 40 024 0968 (3xM32)<br/>19 40 024 0367 (3xM25)</p> <p>Han® 24 HPR bulkhead mounted housing, enlarged</p>  <p>09 40 024 0368<br/>09 40 024 0371</p>     | <p>Mounting frame<sup>2)</sup></p>  <p>09 40 000 9955</p> <p>Hexagonal adapter</p>  <p>19 36 000 5135 (M32)<br/>19 36 000 5134 (M25)</p>     |
| <p>Han® TC 650 crimp contact, female</p>  <p>09 11 000 6261 (70 mm<sup>2</sup>)<br/>09 11 000 6262 (95 mm<sup>2</sup>)<br/>09 11 000 6263 (120 mm<sup>2</sup>)<br/>09 11 000 6264 (150 mm<sup>2</sup>)<br/>09 11 000 6265 (185 mm<sup>2</sup>)<br/>09 11 000 6268 (240 mm<sup>2</sup>)</p> | <p>Han® HC Modular 650 axial screw insert, female</p>  <p>09 11 001 2771 (70...120 mm<sup>2</sup>)<br/>09 11 001 2772 (150...185 mm<sup>2</sup>)</p> <p>Han® HC Modular 650 crimp insert, female</p>  <p>09 11 001 3112</p> <p>Han® HC Modular 650 screw insert, female<sup>1)</sup></p>  <p>09 11 001 2775</p> | <p>Frame, 3-pole, female</p>  <p>09 11 000 9974</p> <p>Frame, 3-pole, female</p>  <p>09 11 000 9974</p> | <p>Han® 24 HPR surface mounted housing, horizontal version</p>  <p>19 40 024 0968 (3xM32)<br/>19 40 024 0367 (3xM25)</p> <p>Han® 24 HPR bulkhead mounted housing, enlarged</p>  <p>09 40 024 0368<br/>09 40 024 0371</p> <p>Han® 24 HPR bulkhead mounted housing, enlarged</p>  <p>09 40 024 0368<br/>09 40 024 0371</p> | <p>Hexagonal adapter</p>  <p>19 36 000 5135 (M32)<br/>19 36 000 5134 (M25)</p> <p>Mounting frame<sup>2)</sup></p>  <p>09 40 000 9955</p> |

<sup>1)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>2)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

# Han® HC Modular 650 with Han® HPR EasyCon

## Technical characteristics

| Hoods, housings and covers                       |  |
|--|--|
| Material:  | Aluminum die cast, corrosion resistant         |
| Surface:   | Epoxy powder paint, black                      |
| Material locking element:                        | Stainless steel                                |
| Size locking element:                            | M6   |
| Tightening torque locking element:               | 4 Nm   |
| Tightening torque fixing screws for covers (M6): | 6 Nm   |
| Tightening torque for external PE (M8):          | 15 Nm  |
| Material seal:                                   | NBR  |
| Limiting temperatures:                           | -40 °C...+125 °C                               |
| Corrosion resistance:                            | 500 h acc. to ASTM B117-09                     |
| Degree of protection (for coupled connector):    | IP68 / IP69K                                   |
| Frames   |  |
| Material:  | Stainless steel                                |
| Tightening torque distance bolts:                | 6 Nm   |
| Tightening torque fixing screws (M4):            | 1.5 Nm   |
| Tightening torque fixing screws (M6):            | 10 Nm  |
| Mounting frames                                  |  |
| Material:  | Aluminum die cast, corrosion resistant         |
| Surface:   | without  |
| Tightening torque for fixing holes (M6):         | 10 Nm  |
| Mounting panel (for Han® 34 HPR EasyCon)         |  |
| Material:  | Stainless steel                                |
| Tightening torque for fixing holes (M6):         | 16 Nm  |
| Special EMC cable glands                         |  |
| Material:  | Brass  |
| Surface:   | Nickel plated                                  |
| Material seal:                                   | EPDM   |
| Material clamping cage:                          | Polyamide                                      |
| Tightening torque fitting and cab nut:           | 10 Nm (for M25 parts)<br>20 Nm (for M32 parts) |
| Material self-locking clamp:                     | Spring band steel                              |
| Material self-locking clamp:                     | Zinc-aluminum coating + organic topcoat        |
| Inserts  |  |
| Material:  | Polyamide and polycarbonate                    |
| Rated voltage:                                   | 4000 V   |
| Rated impulse voltage:                           | 18 kV  |
| Pollution degree:                                | 3  |
| Insulation resistance:                           | ≥ 10 <sup>10</sup> Ω                           |
| Limiting temperatures:                           | -40 °C...+125 °C                               |
| Flammability acc. to UL 94:                      | V-0  |
| Mechanical working life:                         | ≥ 500 mating cycles                            |

| Axial screw contacts               |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 650 A               |
| Contact resistance:                | ≤ 0.2 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 26.5 mm             |
| Mechanical working life:           | ≥ 500 mating cycles |

| Termination area:   | Cross-section      | Stripping length | Tightening torque |
|---------------------|--------------------|------------------|-------------------|
|                     | 70 mm <sup>2</sup> | 23...25 mm       | 12 Nm             |
| 95 mm <sup>2</sup>  | 23...25 mm         | 14 Nm            |                   |
| 120 mm <sup>2</sup> | 23...25 mm         | 16 Nm            |                   |
| 150 mm <sup>2</sup> | 23...25 mm         | 17 Nm            |                   |
| 185 mm <sup>2</sup> | 23...25 mm         | 19 Nm            |                   |

| Screw contacts*          |   |
|--------------------------|---|
| Material:                | Copper alloy                                  |
| Surface:                 | Silver  |
| Rated current:           | 650 A   |
| Contact resistance:      | ≤ 0.2 mΩ                                      |
| Wires:                   | For cable lugs up to max. 240 mm <sup>2</sup> |
| Mechanical working life: | ≥ 500 mating cycles                           |
| Screw thread:            | M12   |
| Wrench size:             | SW18 at contact, SW24 at screw                |
| Tightening torque:       | 16...18 Nm                                    |

\* not with Han® 34 HPR EasyCon

| Crimp contacts                     |  |
|------------------------------------|--|
| Material:                          | Copper alloy                           |
| Surface:                           | Silver                                 |
| Rated current:                     | 650 A                                  |
| Contact resistance:                | ≤ 0.3 mΩ                               |
| Stranded wires acc. to IEC 60 228: | Class 5                                |
| Max. insulation diameter of cable: | 27 mm (32 mm for 240 mm <sup>2</sup> ) |
| Mechanical working life:           | ≥ 500 mating cycles                    |

| Crimp zone<br>(acc. to DIN 46 235) | Cross-section      | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46 235 |
|------------------------------------|--------------------|--------------|------------------|-----------------------------------|
|                                    | 70 mm <sup>2</sup> | 11.5 mm      | 42.0 mm          | 16                                |
| 95 mm <sup>2</sup>                 | 13.5 mm            | 42.0 mm      | 18               |                                   |
| 120 mm <sup>2</sup>                | 15.5 mm            | 42.0 mm      | 20               |                                   |
| 150 mm <sup>2</sup>                | 17.0 mm            | 42.0 mm      | 22               |                                   |
| 185 mm <sup>2</sup>                | 19.0 mm            | 42.0 mm      | 25               |                                   |
| 240 mm <sup>2</sup>                | 21.5 mm            | 46.0 mm      | 28               |                                   |

## Tools

| Crimp tools  |                 |                         |   |   |                         |  |
|--|-----------------|-------------------------|---|---|-------------------------|--|
| Pressforce 60 kN<br>- Accu hydraulic tool (09 99 000 0850)<br>- Hand hydraulic tool (09 99 000 0851) |                 |                         |   | Pressforce 120 kN<br>- Accu hydraulic tool (09 99 000 0860)<br>- Hand hydraulic tool (09 99 000 0861) |                         |  |
|                     |                 |                         |   |                     |                         |  |
| Cross-section  | Width crimp die | Double crimp necessary? | Part number crimp die   | Width crimp die   | Double crimp necessary? | Part number crimp die  |
|  |                 |                         |  |   |                         |  |
| 70 mm <sup>2</sup>   | 9 mm            | No                      | 09 99 000 0857  | 13 mm   | No                      | 09 99 000 0867   |
| 95 mm <sup>2</sup>   | -               | -                       | -   | 14 mm   | No                      | 09 99 000 0868   |
| 120 mm <sup>2</sup>  | -               | -                       | -   | 14 mm   | No                      | 09 99 000 0869   |
| 150 mm <sup>2</sup>  | -               | -                       | -   | 10 mm   | Yes                     | 09 99 000 0870   |
| 185 mm <sup>2</sup>  | -               | -                       | -   | 10 mm   | Yes                     | 09 99 000 0871   |
| 240 mm <sup>2</sup>  | -               | -                       | -   | 10 mm   | Yes                     | 09 99 000 0872   |

Hexagonal driver, adapter SW8



09 99 000 0372

Assembly tool for shielding clamp



09 99 000 0334

## Accessories

Cover for housing




09 40 034 5405

Cover for hood



09 40 034 5406

Mounting panel long version



09 40 000 9925

Mounting panel short version



09 40 000 9926

Mounting panel for hood



09 40 034 9942

Mounting panel for housing



09 40 034 9941

Cover for cable lugs



09 40 034 9901

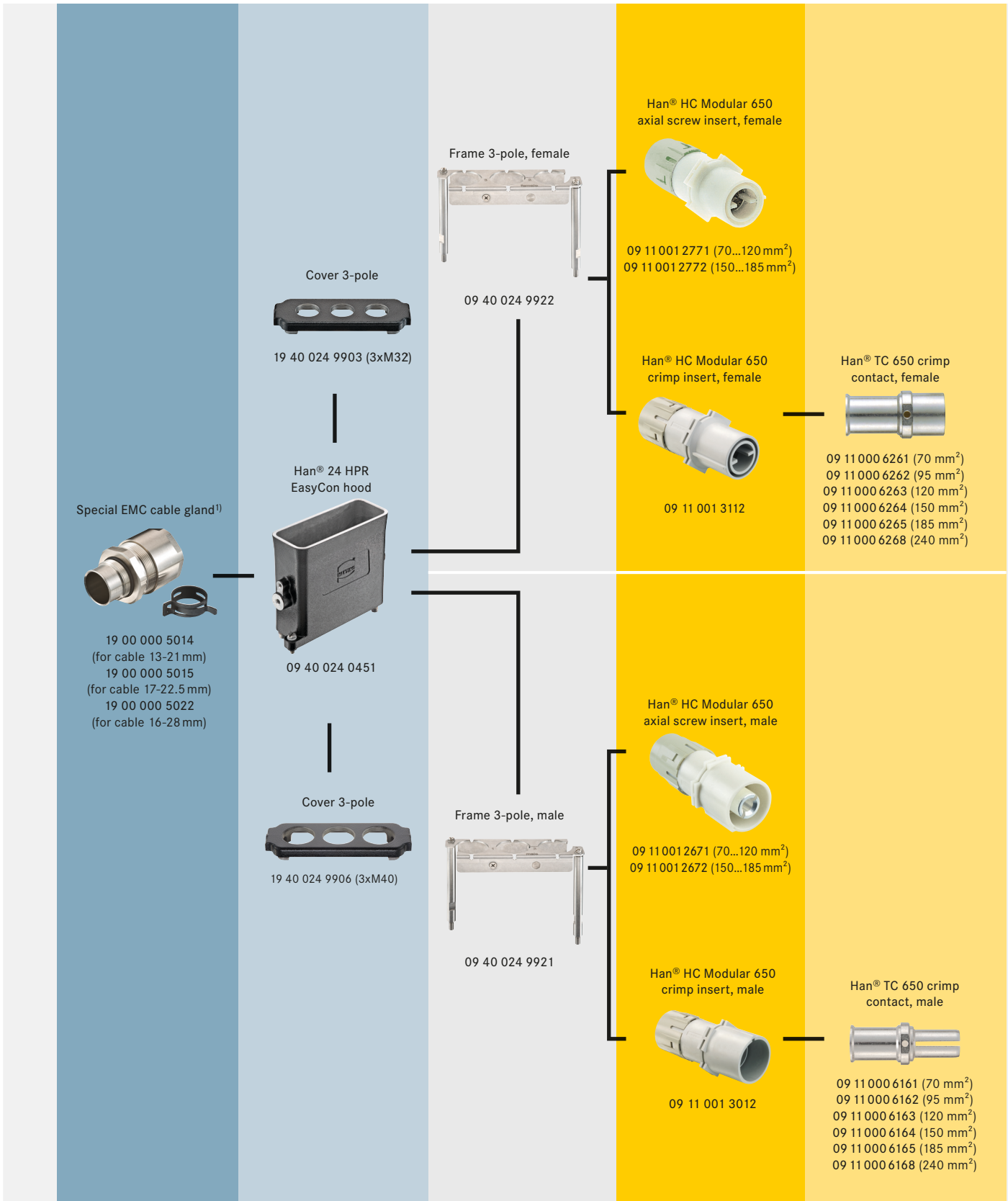
Cable lugs, angled



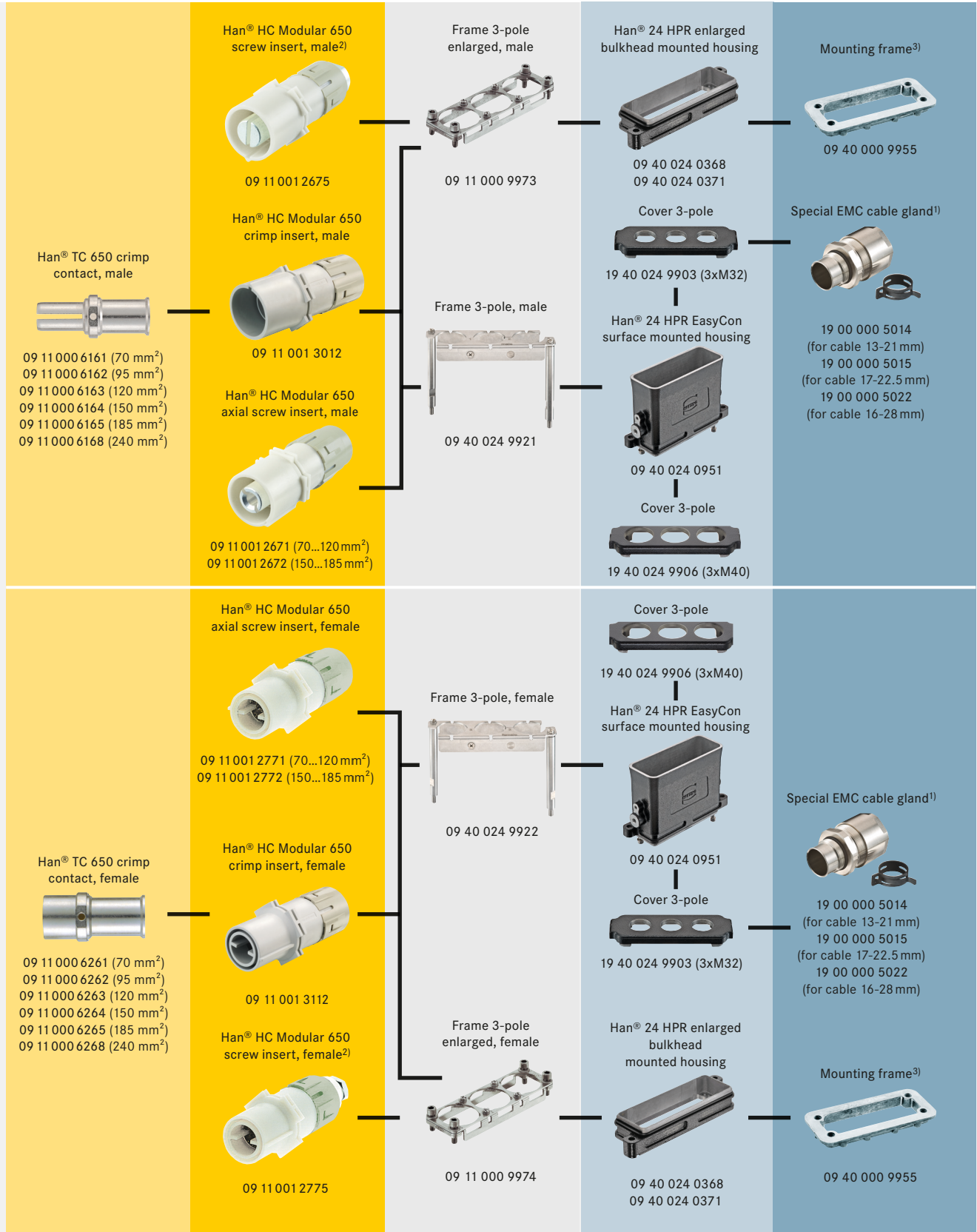
09 11 000 8118 (150 mm<sup>2</sup>)  
09 11 000 8119 (185 mm<sup>2</sup>)

# Assembly options

## Han® HC Modular 650, 3-pole, with Han® 24 HPR EasyCon



<sup>1)</sup> Option, can be used for shielded cables

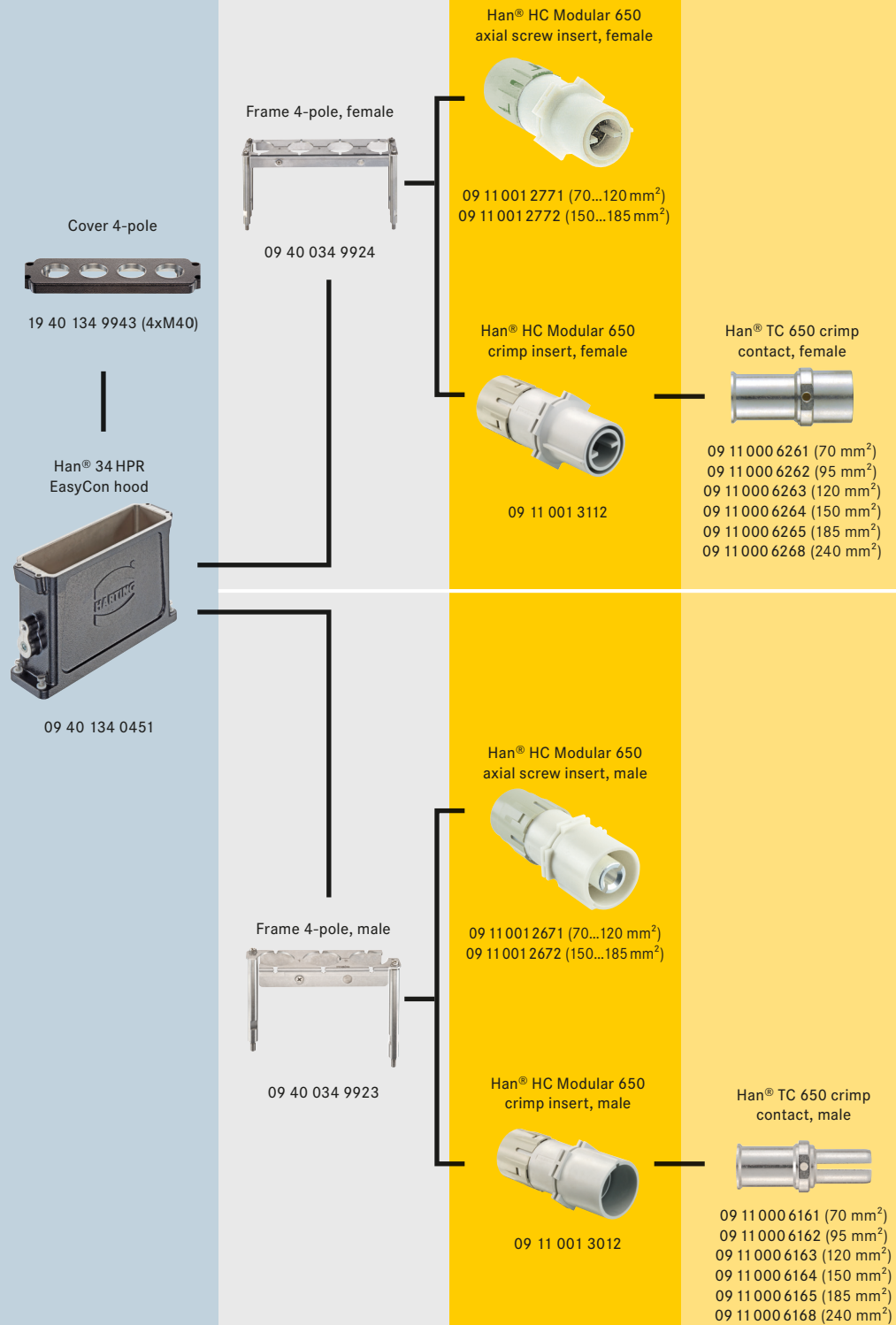


<sup>2)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>3)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin

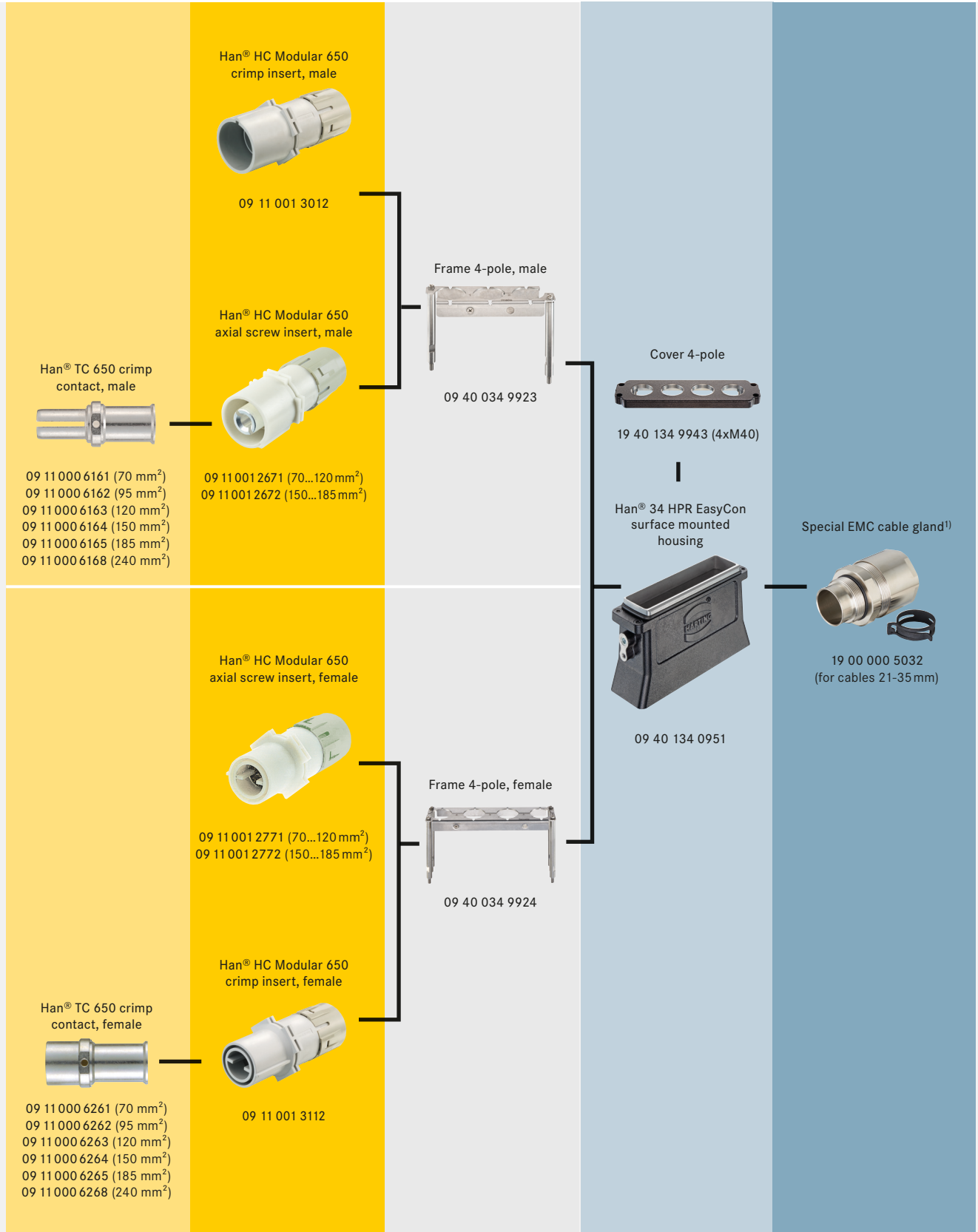
## Assembly options

### Han® HC Modular 650, 4-pole, with Han® 34 HPR EasyCon straight



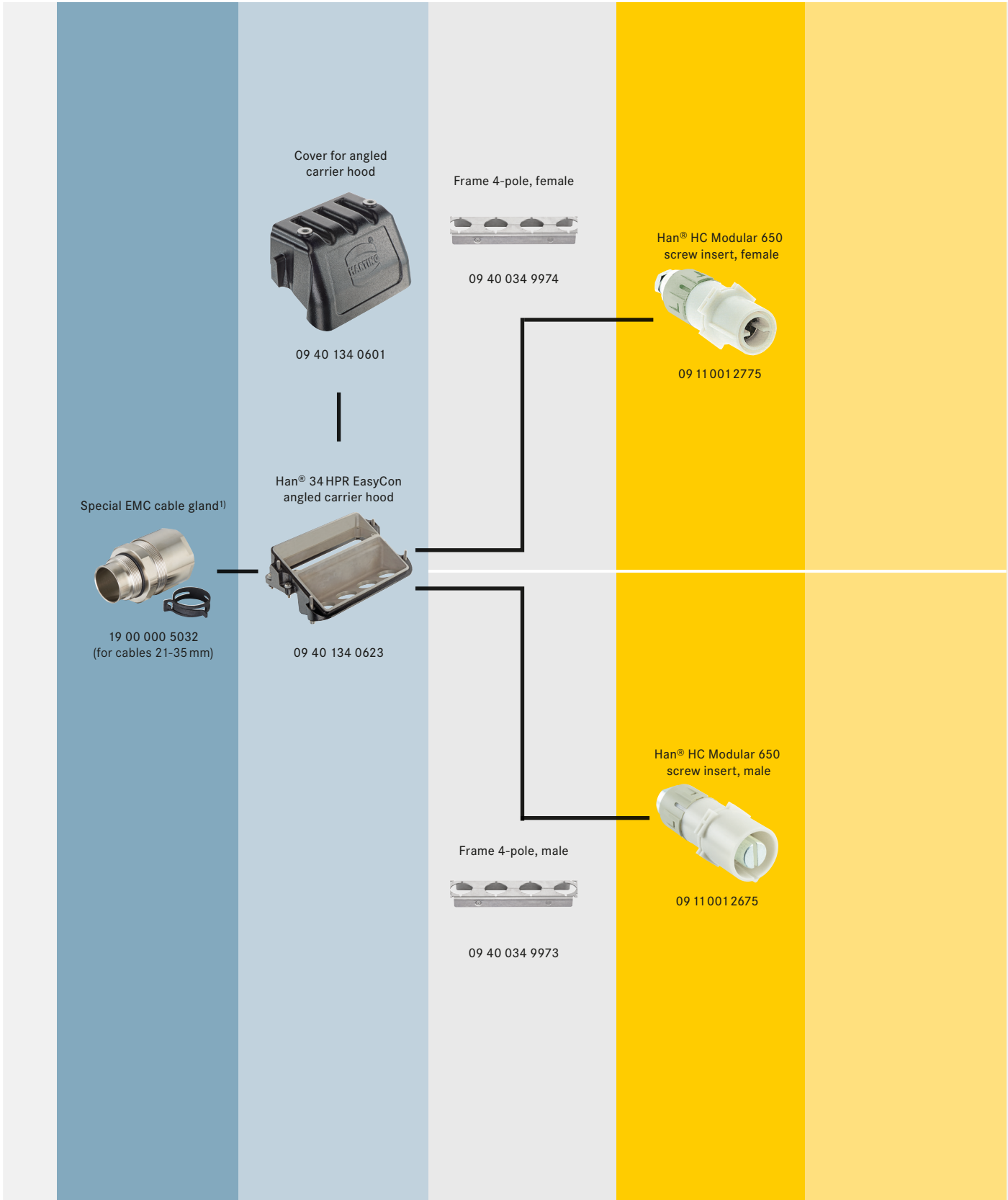
<sup>1)</sup> Option, can be used for shielded cables



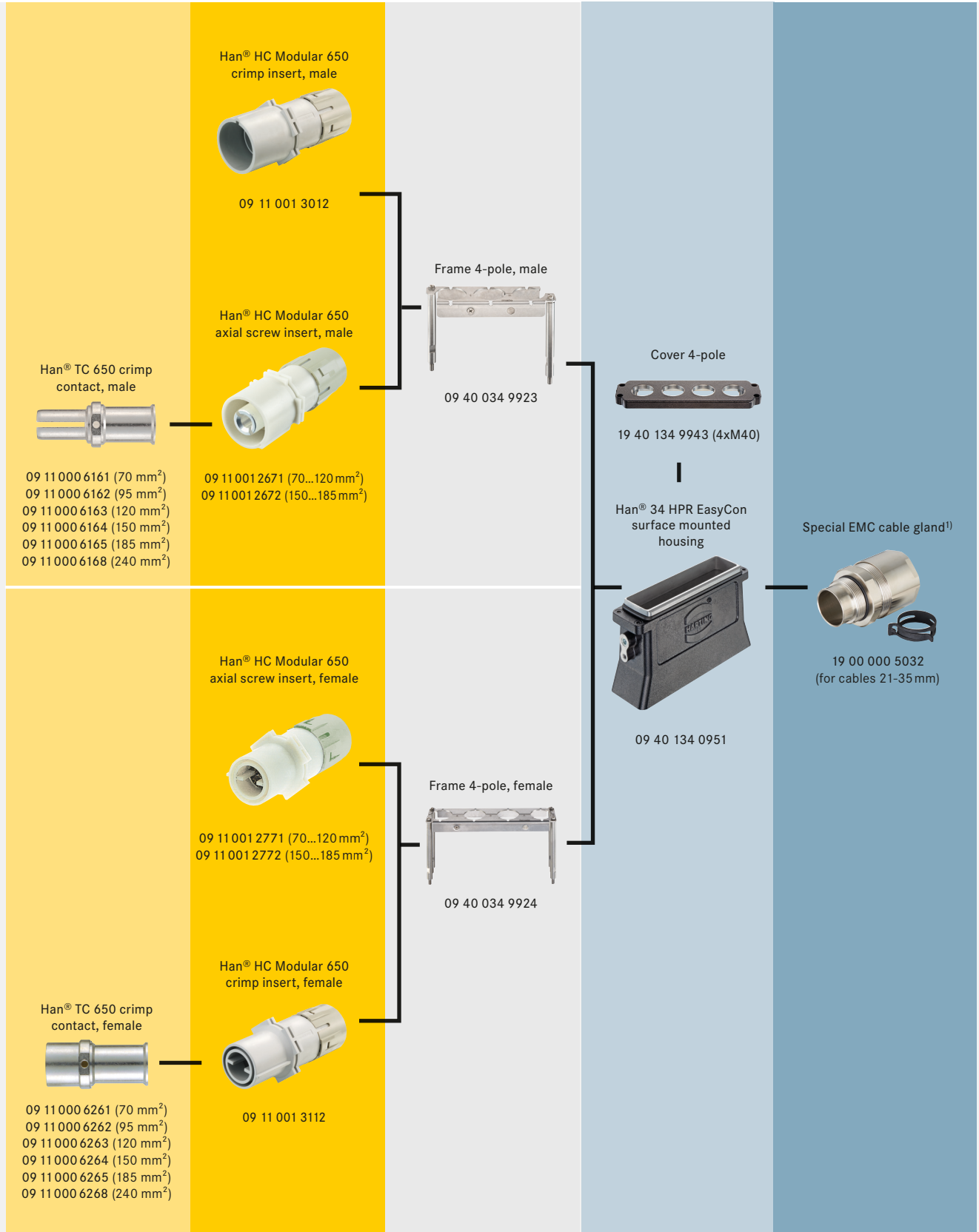


## Assembly options

### Han® HC Modular 650, 4-pole, with Han® 34 HPR EasyCon angled



<sup>1)</sup> Option, can be used for shielded cables



# Han® HC Modular 650 with Han® 48 HPR

## Technical characteristics

| Hoods, housings and covers                       |  |
|--|--|
| Material:  | Aluminum die cast, corrosion resistant |
| Surface:   | Epoxy powder paint, black              |
| Material locking element:                        | Stainless steel                        |
| Size locking element:                            | M6                                     |
| Tightening torque locking element:               | 4 Nm                                   |
| Tightening torque fixing screws for covers (M6): | 4 Nm                                   |
| Material seal:                                   | NBR                                    |
| Limiting temperatures:                           | -40 °C....+125 °C                      |
| Corrosion resistance:                            | 500 h acc. to ASTM B117-09             |
| Degree of protection (for coupled connector):    | IP68 / IP69K                           |
| Frames   |  |
| Material:  | Stainless steel                        |
| Mounting frames                                  |  |
| Material:  | Aluminum die cast, corrosion resistant |
| Surface:   | without                                |
| Inserts  |  |
| Material:  | Polyamide and polycarbonate            |
| Rated voltage:                                   | 4000 V                                 |
| Rated impulse voltage:                           | 18 kV                                  |
| Pollution degree:                                | 3                                      |
| Insulation resistance:                           | ≥ 10 <sup>10</sup> Ω                   |
| Limiting temperatures:                           | -40 °C....+125 °C                      |
| Flammability acc. to UL 94:                      | V-0                                    |
| Mechanical working life:                         | ≥ 500 mating cycles                    |

| Axial screw contacts               |                     |
|------------------------------------|---------------------|
| Material:                          | Copper alloy        |
| Surface:                           | Silver              |
| Rated current:                     | 650 A               |
| Contact resistance:                | ≤ 0.2 mΩ            |
| Stranded wires acc. to IEC 60 228: | Class 5             |
| Max. insulation diameter of cable: | 26.5 mm             |
| Mechanical working life:           | ≥ 500 mating cycles |

| Termination area:   | Cross-section      | Stripping length | Tightening torque |
|---------------------|--------------------|------------------|-------------------|
|                     | 70 mm <sup>2</sup> | 23...25 mm       | 12 Nm             |
| 95 mm <sup>2</sup>  | 23...25 mm         | 14 Nm            |                   |
| 120 mm <sup>2</sup> | 23...25 mm         | 16 Nm            |                   |
| 150 mm <sup>2</sup> | 23...25 mm         | 17 Nm            |                   |
| 185 mm <sup>2</sup> | 23...25 mm         | 19 Nm            |                   |

| Screw contacts           |   |
|--------------------------|---|
| Material:                | Copper alloy                                  |
| Surface:                 | Silver  |
| Rated current:           | 650 A   |
| Contact resistance:      | ≤ 0.2 mΩ                                      |
| Wires:                   | For cable lugs up to max. 240 mm <sup>2</sup> |
| Mechanical working life: | ≥ 500 mating cycles                           |
| Screw thread:            | M12   |
| Wrench size:             | SW18 at contact, SW24 at screw                |
| Tightening torque:       | 16...18 Nm                                    |

| Crimp contacts                     |  |
|------------------------------------|--|
| Material:                          | Copper alloy                           |
| Surface:                           | Silver                                 |
| Rated current:                     | 650 A                                  |
| Contact resistance:                | ≤ 0.3 mΩ                               |
| Stranded wires acc. to IEC 60 228: | Class 5                                |
| Max. insulation diameter of cable: | 27 mm (32 mm for 240 mm <sup>2</sup> ) |
| Mechanical working life:           | ≥ 500 mating cycles                    |

| Crimp zone<br><br>(acc. to DIN 46 235) | Cross-section      | Ø Crimp zone | Stripping length | Crimp die code acc. to DIN 46 235 |
|--|--------------------|--------------|------------------|-----------------------------------|
|  | 70 mm <sup>2</sup> | 11.5 mm      | 42.0 mm          | 16                                |
| 95 mm <sup>2</sup>                     | 13.5 mm            | 42.0 mm      | 18               |                                   |
| 120 mm <sup>2</sup>                    | 15.5 mm            | 42.0 mm      | 20               |                                   |
| 150 mm <sup>2</sup>                    | 17.0 mm            | 42.0 mm      | 22               |                                   |
| 185 mm <sup>2</sup>                    | 19.0 mm            | 42.0 mm      | 25               |                                   |
| 240 mm <sup>2</sup>                    | 21.5 mm            | 46.0 mm      | 28               |                                   |

## Tools

| Crimp tools   |                 |                         |  |                 |                         |  |
|---|-----------------|-------------------------|--|-----------------|-------------------------|--|
| Pressforce 60 kN  |                 |                         | Pressforce 120 kN  |                 |                         |  |
| - Accu hydraulic tool (09 99 000 0850)  |                 |                         | - Accu hydraulic tool (09 99 000 0860)   |                 |                         |  |
| - Hand hydraulic tool (09 99 000 0851)  |                 |                         | - Hand hydraulic tool (09 99 000 0861)   |                 |                         |  |
|  |                 |                         |  |                 |                         |  |
| Cross-section   | Width crimp die | Double crimp necessary? | Part number crimp die  | Width crimp die | Double crimp necessary? | Part number crimp die  |
|   |                 |                         |  |                 |                         |  |
| 70 mm <sup>2</sup>  | 9 mm            | No                      | 09 99 000 0857   | 13 mm           | No                      | 09 99 000 0867   |
| 95 mm <sup>2</sup>  | -               | -                       | -  | 14 mm           | No                      | 09 99 000 0868   |
| 120 mm <sup>2</sup>   | -               | -                       | -  | 14 mm           | No                      | 09 99 000 0869   |
| 150 mm <sup>2</sup>   | -               | -                       | -  | 10 mm           | Yes                     | 09 99 000 0870   |
| 185 mm <sup>2</sup>   | -               | -                       | -  | 10 mm           | Yes                     | 09 99 000 0871   |
| 240 mm <sup>2</sup>   | -               | -                       | -  | 10 mm           | Yes                     | 09 99 000 0872   |

Hexagonal driver, adapter SW8



09 99 000 0372

## Accessories

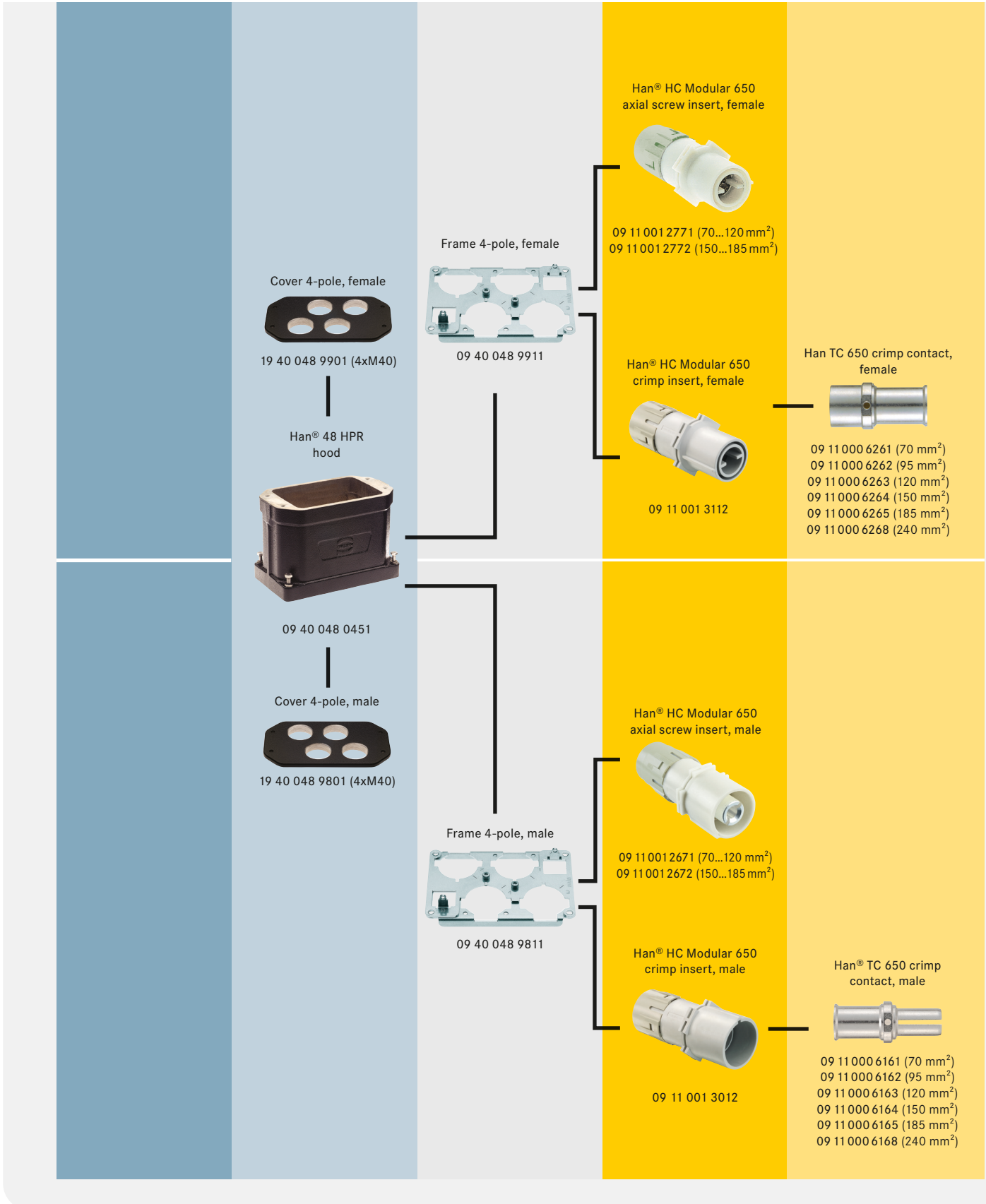
Cover for housing

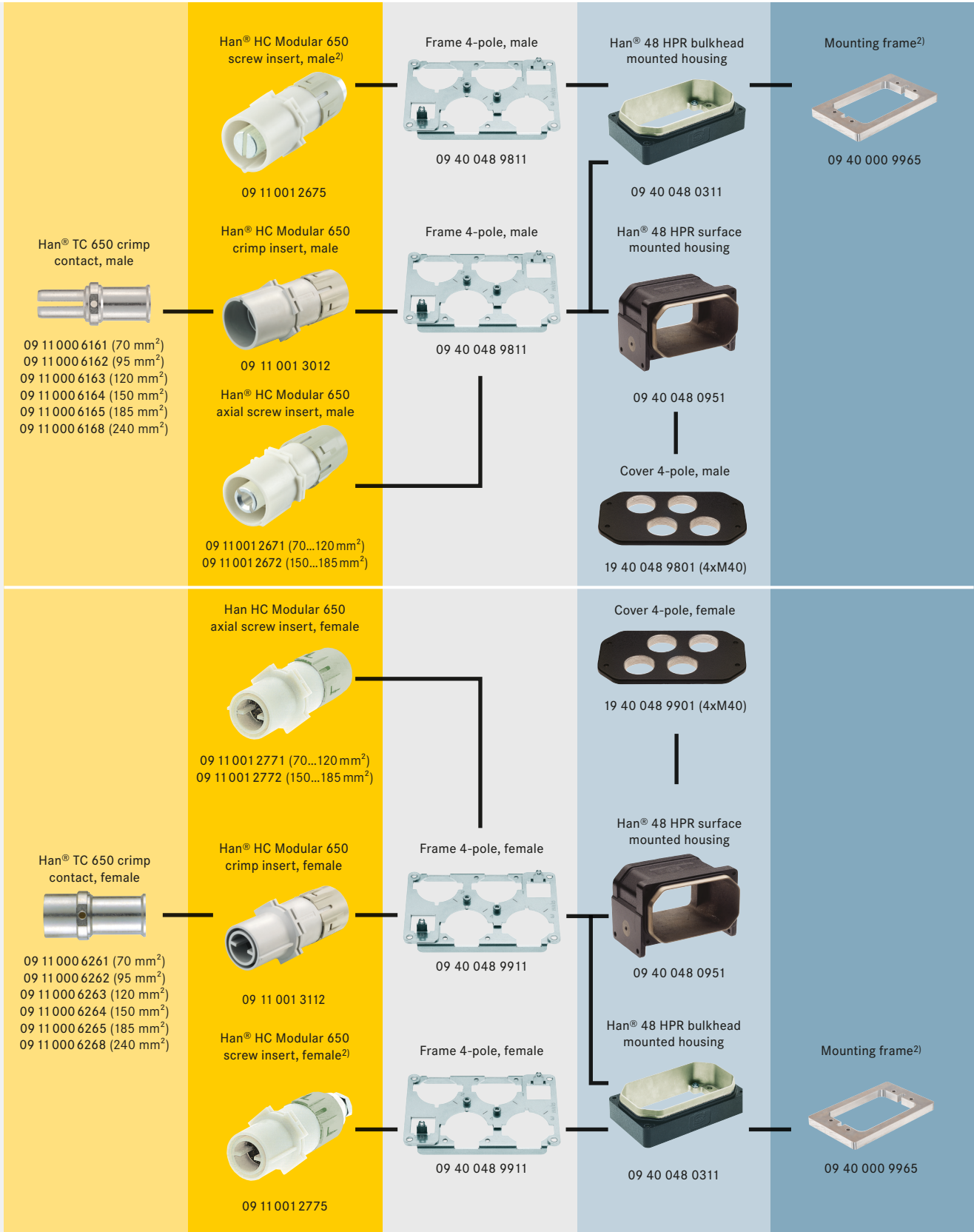


09 40 048 5401

# Assembly options

## Han® HC Modular 650, 4-pole, with Han® 48 HPR





<sup>2)</sup> Can be used only in Han® HPR bulkhead mounted housing

<sup>2)</sup> Can be used inside of an electrical cabinet, if cabinet wall is too thin



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