

# 第十二章 Chapter 12

## 接插件 Inserts

重载连接器



重载连接器

Heavy duty connectors

- 12.0 重载连接器 Heavy duty connectors  
选型与技术说明 Selection guide
- 12.1 常用套件组合 Set general introduction  
HA/HE 系列套件 Serie set
- 12.2 小型接插体 Connect the small body  
HA 系列接插件 Serie connectors 工具 Tools
- 12.2 常规型接插体 Conventional type plug  
HE 系列接插件 Serie connectors
- 12.2 高压型连接器 Connectors for higher voltages  
HVE 系列接插件 Serie connectors
- 12.2 高密度型接插体 High density type plug  
HEE/HEEE 系列接插件 Serie connectors
- 12.2 D 型高密度连接器 High pin count connectors  
HD/HDD 系列接插件 Serie connectors
- 12.2 接插体 Connector  
HQ 系列接插件 Serie connectors
- 12.2 大电流型接插体 Connectors for higher current  
HSB 系列接插件 Serie connectors
- 12.2 大电流接插体 High current connectors  
HK/HWK 系列接插件 Serie connectors
- 12.3 模块连接器 Modular connectors  
HM 系列接插件 Serie connectors
- 12.4 安装附件 Installation elements  
导轨支架 / 编码销 Insert mounting / standard code pin

## 壳体 Hoods & housings



- 12.5 安装及开孔尺寸图 Mounting dimensions
- 12.6 A 类防护外壳 Hoods / housings series IP65
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- 12.8 特殊类外壳 Special hoods / housings series

### 1. 产品制造规范 Specifications

VDE 0110 爬电距离及电气间隙 Concerning clearance and creepage distances  
VDE 0627 插头插座 Connectors and plug devices

### 2. 标准 Standard

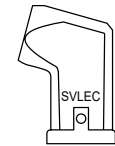
DIN EN 175 301-801  
DIN EN 61984

### 3. 产品认证 Approvals

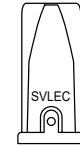


规格 Size 说明 Description

A



上壳 Hood  
侧面进线 top-entry



上壳 Hood  
顶部进线 side-entry

250/400 V  
10 A  
HA-3  
page 12.2.1

250/400 V  
10 A  
HA-4  
page 12.2.1

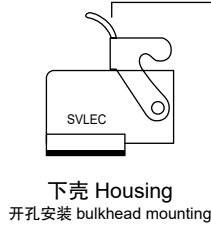
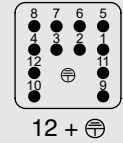
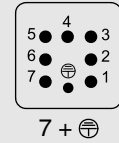
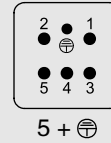
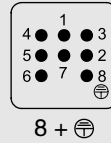
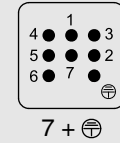
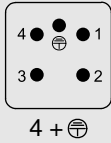
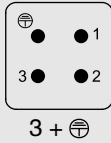
250 V  
10 A  
HD-007  
page 12.2.7

50 V  
10 A  
HD-008  
page 12.2.7

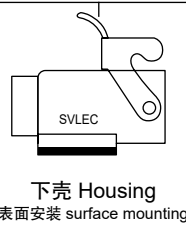
250/400 V  
16 A  
HQ-005  
page 12.2.10

400 V  
10 A  
HQ-007  
page 12.2.10

50 V  
10 A  
HQ-012  
page 12.2.10



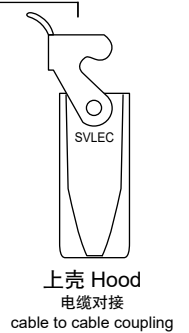
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开孔安装 bulkhead mounting



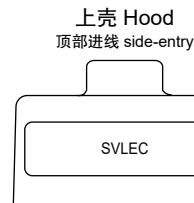
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表面安装 surface mounting



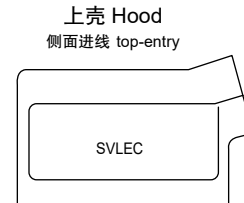
下壳 Housing  
开孔安装 bulkhead mounting



上壳 Hood  
电缆对接  
cable to cable coupling

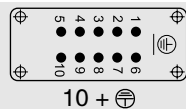


上壳 Hood  
顶部进线 side-entry



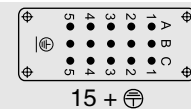
上壳 Hood  
侧面进线 top-entry

250 V  
16 A  
HA  
page 12.2.1



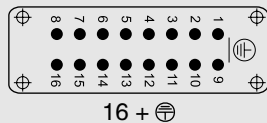
10 +

250 V  
10 A  
HD  
page 12.2.7

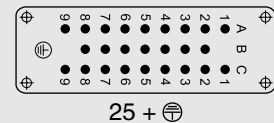


15 +

10



16 +

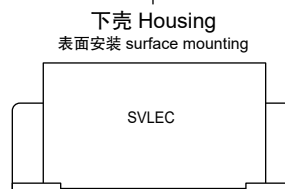


25 +

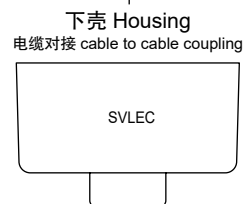
16



下壳 Housing  
开孔安装 bulkhead mounting



下壳 Housing  
表面安装 surface mounting



下壳 Housing  
电缆对接 cable to cable coupling

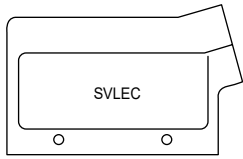
32

用于两个规格为 16A 的连接器的 Suitable for 2 inserts of size 16A

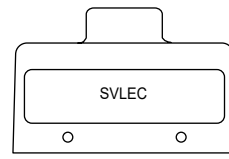
# 概述 – 制造规格 SUMMARY - SIZE

规格 Size 说明 Description

**B**



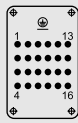
上壳 Hood  
侧面进线 top-entry



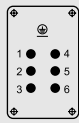
上壳 Hood  
顶部进线 side-entry

|  |   |   |   |  |  |   |
|--|---|---|---|--|--|---|
| <b>250 V</b><br><b>10 A</b><br>HD<br>page 12.2.7 | <b>250 V</b><br><b>10 A</b><br>HDD<br>page 12.2.9 | <b>250 V</b><br><b>16 A</b><br>HE、HESH<br>page 12.2.2 | <b>500 V</b><br><b>16 A</b><br>HEE<br>page 12.2.5 | <b>690/400 V</b><br><b>40/35 A</b><br>HsB、HWK<br>page 12.2.12<br>12.2.13 | <b>690/400 V</b><br><b>100/80A</b><br>HK<br>page 12.2.14 | <b>50-5000 V</b><br><b>5-200 A</b><br>HM<br>page 12.3.1 |
|--|---|---|---|--|--|---|

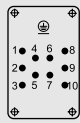
**6**



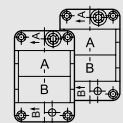
24 + ⊕



6 + ⊕

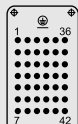


10 + ⊕

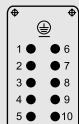


2 modules

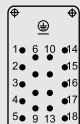
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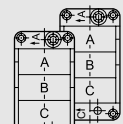
42 + ⊕



10 + ⊕

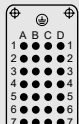


18 + ⊕

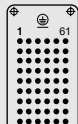


3 modules

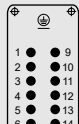
**16**



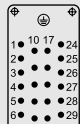
40 + ⊕



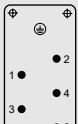
72 + ⊕



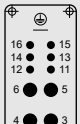
16 + ⊕



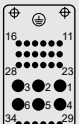
32 + ⊕



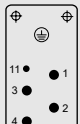
6 + ⊕



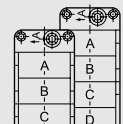
6/6+ ⊕



6/36+ ⊕

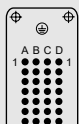


4/2 + ⊕

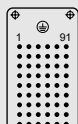


4 modules

**24**



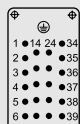
64 + ⊕



108 + ⊕



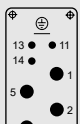
24 + ⊕



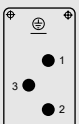
46 + ⊕



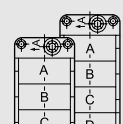
8/0+ ⊕



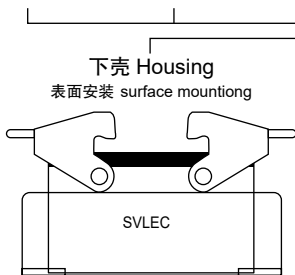
6/6+ ⊕



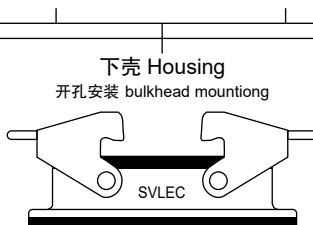
4/8+ ⊕



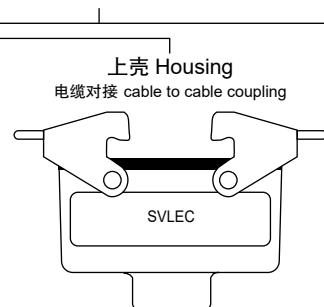
6 modules



下壳 Housing  
表面安装 surface mounting



下壳 Housing  
开孔安装 bulkhead mounting



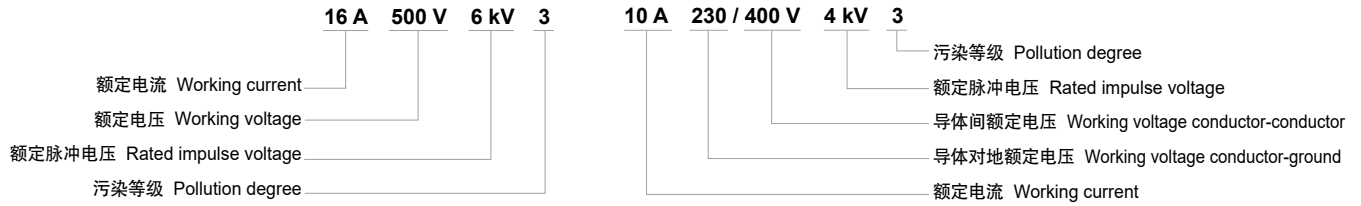
上壳 Housing  
电缆对接 cable to cable coupling

**32** 用于两个规格为 16B 的连接器的 Suitable for 2 inserts of size 16B

**48** 用于两个规格为 24B 的连接器的 Suitable for 2 inserts of size 24B

## 电气数据说明 Electrical data

连接器电气数据的说明是根据 DIN EN 61 984 的制订的。  
 Electrical data for connectors are specified as per DIN EN 61 984.



## 用外壳保护连接器 Housings connector insert protection

连接器上的外壳和锁扣保护了自身的针位置免受外部机械损伤，比如冲击、异物、灰尘、无意的接触、湿气、水或洗涤剂、冷却液、油等其它立方体的浸入。外壳所能提供的防护等级是由 IEC 60 529 或 DIN EN 60 529 标准确定的，这些标准中包含了各种保护等级的划分情况。下图是保护等级一览表。按如下方式进行说明：  
 The connector's housing, sealing and locking mechanism protect the connection from external influences such as mechanical shocks, foreign bodies, humidity, dust, water or other fluids such as cleansing and cooling agents, oils, etc. The degree of protection the housing offers is explained in the IEC 60 529, DIN EN 60 529, standards that categorize enclosures according to foreign body and water protection.

字母代号 Code letters  
 (International Protection)




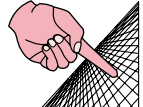

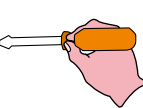



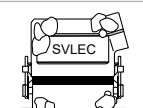




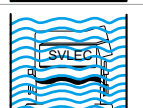
第一个数字 First Index Figure  
 (防固体异物保护 Foreign bodies protection)

第二个数字 Second Index Figure  
 (防水保护 Water protection)

IP

6

5

| 数字<br>Index figure | 保护范围<br>Index figure   | 数字<br>Index figure | 保护范围<br>Index figure  |
|--------------------|--|--------------------|---|
| 0                  | 无安全防护<br>No protection<br>                                       | 0                  | 无防水保护<br>No protection against water  |
| 1                  | 防大件异物保护<br>Protection against large foreign bodies<br>          | 1                  | 防滴水保护<br>Drip-proof<br>                      |
| 2                  | 防中等大小异物保护<br>Protection against medium sized foreign bodies<br> | 2                  | 防倾斜滴水保护<br>Drip-proof<br>                    |
| 3                  | 防小件异物保护<br>Protection against small solid foreign bodies<br>    | 3                  | 防河水保护<br>Spray-proof<br>                     |
| 4                  | 防颗粒状异物保护<br>Protection against grain-shaped foreign bodies<br>  | 4                  | 防喷水保护<br>Splash-proof<br>                    |
| 5                  | 防灰尘沉积保护<br>Protection against injurious deposits of dust<br>    | 5                  | 防射水保护<br>Hose-proof<br>                      |
| 6                  | 防灰尘进入保护<br>Protection against ingress of dust<br>               | 6                  | 超强防淹水保护<br>Strong hose-proof<br>             |
|                    |  | 7                  | 防浸水保护<br>Protected against immersion<br>     |
|                    |  | 8                  | 防潜水保护<br>Protected against high-pressure<br> |

# 选型指南 SELECTION GUIDE

## M 制接头选型指南 Joint selection guide

适用于标准电缆的 M 制接头规格 Standard for M connector for standard cable

请注意您选择的 M 制电缆接头的压接范围 Please note that the pressure range of the M cable connector you choose

| 线径<br>Wire gauge    | 芯数<br>Pole | 电缆直径范围 $\phi$<br>Wire diameter | M 制带多层密封圈接头<br>Multiple seal joint |    |    |    |
|---------------------|------------|--------------------------------|------------------------------------|----|----|----|
| 0.5 mm <sup>2</sup> | 4          | 6.7 - 9.7                      | 16                                 | 20 |    |    |
| AWG 20              | 6          | 7.6 - 10.6                     | 16                                 | 20 | 16 |    |
|                     | 10         | 9.4 - 12.8                     | 16                                 | 20 | 16 | 25 |
|                     | 16         | 10.7 - 13.9                    |                                    | 20 | 16 | 25 |
|                     | 24         | 13.5 - 16.7                    |                                    | 16 | 25 | 32 |
|                     | 35         | 16 - 18.6                      |                                    |    | 25 | 32 |
|                     | 40         | 16.6 - 19.2                    |                                    |    | 25 | 32 |
|                     | 61         | 20.3 - 23.1                    |                                    |    |    | 32 |

| 线径<br>Wire gauge    | 芯数<br>Pole | 电缆直径范围 $\phi$<br>Wire diameter | M 制带多层密封圈接头<br>Multiple seal joint |    |    |       |
|---------------------|------------|--------------------------------|------------------------------------|----|----|-------|
| 1.5 mm <sup>2</sup> | 4          | 9.7 - 11.8                     | 16                                 | 20 | 25 |       |
| AWG 16              | 6          | 10.8 - 14.2                    |                                    | 20 | 25 |       |
|                     | 11         | 13.6 - 16.8                    |                                    |    | 25 | 32    |
|                     | 16         | 15.8 - 18.4                    |                                    |    | 25 | 32    |
|                     | 25         | 20.2 - 23                      |                                    |    |    | 32 40 |
|                     | 32         | 23.8 - 24.5                    |                                    |    |    | 40    |
|                     | 42         | 25.8 - 29                      |                                    |    |    | 40    |
|                     | 61         | 28.6 - 31.8                    |                                    |    |    | 40    |

| 线径<br>Wire gauge     | 芯数<br>Pole | 电缆直径范围 $\phi$<br>Wire diameter | M 制带多层密封圈接头<br>Multiple seal joint |    |    |    |
|----------------------|------------|--------------------------------|------------------------------------|----|----|----|
| 0.75 mm <sup>2</sup> | 4          | 7.9 - 10.3                     | 16                                 | 20 |    |    |
| AWG18                | 6          | 8.9 - 12.3                     | 16                                 | 20 | 25 |    |
|                      | 10         | 10.4 - 13.8                    |                                    | 20 | 25 |    |
|                      | 18         | 13 - 16.2                      |                                    |    | 25 | 32 |
|                      | 25         | 15.9 - 18.5                    |                                    |    | 25 | 32 |
|                      | 32         | 17.1 - 19.7                    |                                    |    | 25 | 32 |
|                      | 40         | 19 - 21.4                      |                                    |    | 32 | 40 |
|                      | 50         | 21.3 - 24.1                    |                                    |    | 32 | 40 |
|                      | 61         | 22.6 - 25.4                    |                                    |    |    | 40 |

| 线径<br>Wire gauge    | 芯数<br>Pole | 电缆直径范围 $\phi$<br>Wire diameter | M 制带多层密封圈接头<br>Multiple seal joint |    |    |       |
|---------------------|------------|--------------------------------|------------------------------------|----|----|-------|
| 2.5 mm <sup>2</sup> | 4          | 11.7 - 14.4                    | 20                                 | 25 |    |       |
| AWG 12 - 14         | 6          | 13.3 - 16.7                    |                                    | 25 | 32 |       |
|                     | 11         | 18 - 20.6                      |                                    | 25 | 32 | 40    |
|                     | 16         | 20.6 - 23.4                    |                                    |    | 32 | 40    |
|                     | 25         | 26.4 - 29.6                    |                                    |    |    | 40 50 |
|                     | 34         | 31.3 - 33.1                    |                                    |    |    | 40 50 |
|                     | 50         | 37 - 39.4                      |                                    |    |    | 50    |
|                     | 61         | 39-41.5                        |                                    |    |    | 50    |

| 线径<br>Wire gauge  | 芯数<br>Pole | 电缆直径范围 $\phi$<br>Wire diameter | M 制带多层密封圈接头<br>Multiple seal joint |    |    |       |
|-------------------|------------|--------------------------------|------------------------------------|----|----|-------|
| 1 mm <sup>2</sup> | 4          | 8.4 - 10.7                     | 16                                 | 20 |    |       |
| AWG 16 - 18       | 6          | 9.2 - 12.6                     | 16                                 | 20 | 25 |       |
|                   | 10         | 11 - 14.4                      |                                    | 20 | 25 | 32    |
|                   | 16         | 13 - 16.2                      |                                    |    | 25 | 32    |
|                   | 24         | 16.5 - 19.1                    |                                    |    | 25 | 32 40 |
|                   | 34         | 19.4 - 21.8                    |                                    |    | 25 | 32 40 |
|                   | 48         | 22 - 24.8                      |                                    |    | 32 | 40    |
|                   | 61         | 24.5 - 27.2                    |                                    |    | 32 | 40    |

| 线径<br>Wire gauge  | 芯数<br>Pole | 电缆直径范围 $\phi$<br>Wire diameter | M 制带多层密封圈接头<br>Multiple seal joint |    |    |    |
|-------------------|------------|--------------------------------|------------------------------------|----|----|----|
| 4 mm <sup>2</sup> | 2          | 10.7 - 14.1                    | 20                                 | 25 |    |    |
| AWG 10 - 12       | 4          | 13 - 16.4                      |                                    | 25 | 32 |    |
|                   | 5          | 14.3 - 17.7                    |                                    | 25 | 32 |    |
|                   | 7          | 16.2 - 19.6                    |                                    | 25 | 32 |    |
|                   | 11         | approx. 24.5                   |                                    |    |    | 40 |

## 常用壳体组合 Commonly used shell combination



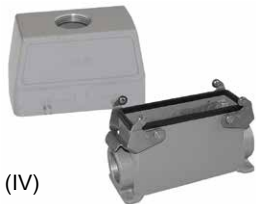
(I)  
上壳侧出，底座开孔形式  
Hood side-entry type, Housing bulkhead mounting



(II)  
上壳顶出，底座开孔形式  
Hood top-entry type, Housing bulkhead mounting



(III)  
上壳侧出，底座表面形式  
Hood side-entry type, Housing surface mounting



(IV)  
上壳顶出，底座表面形式  
Hood top-entry type, Housing surface mounting



(V)  
上壳侧出，底座开孔带盖形式  
Hood side-entry type, Housing bulkhead mounting cover



(VI)  
上壳顶出，底座开孔带盖形式  
Hood top-entry type, Housing bulkhead mounting cover



(VII)  
上壳侧出，底座表面带盖形式  
Hood side-entry type, Housing surface mounting cover



(VIII)  
上壳顶出，底座表面带盖形式  
Hood top-entry type, Housing surface mounting cover

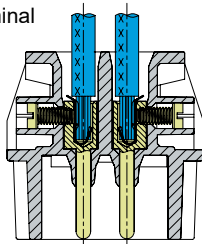


(IX)  
上壳顶出，下壳对接形式  
Hood top-entry type, Housing cable to cable coupling

# 接线端子类型 TERMINAL TYPE

## 螺钉压接形式 Screw terminal

- HA 系列 HA series
- HE/HVE 系列 HE/HVE series
- HSB 系列 HSB series
- HK 系列 HK series
- HWK 系列 HWK series
- HEAV 系列 HEAV series

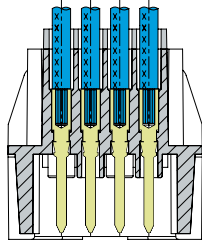


- ◆ 操作简单  
Easy handling
- ◆ 无需专用工具  
No special tools

| 接插芯<br>Inserts | 最大线规<br>Max.wire gauge |     | 剥线长度<br>Stripping length L<br>L (mm) |
|----------------|------------------------|-----|--------------------------------------|
|                | mm <sup>2</sup>        | AWG |                                      |
| HA-003,HA-004  | 2.5                    | 14  | 4.5                                  |
| HE,HA,HEAV     | 2.5                    | 14  | 7.5                                  |
| HE,HVE         | 4.0                    | 12  | 7.5                                  |
| HSB            | 6.0                    | 10  | 11.5                                 |
| HK,HWK         | 16.0                   | 5.0 | 14                                   |

## 冷压针压接形式 Crimp terminal

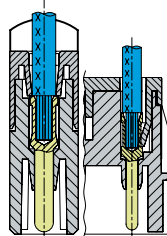
- HD 系列 HD series
- HDD 系列 HDD series



- ◆ 由于压接质量均匀，所以通向电阻恒定  
Constant contact resistance as a result of precisely repeated crimp connection quality
- ◆ 由于接近于冷焊，所以保证了耐腐蚀性  
Corrosion free connections as a result of cold weld action

| 接插芯<br>Inserts | 最大线规<br>Max.wire gauge |     | 剥线长度 L (mm)<br>Stripping length L (mm) |         |
|----------------|------------------------|-----|--|---------|
|                | mm <sup>2</sup>        | AWG | HDD/HD                                 | HEC/HAC |
| HD             | 0.5                    | 20  | 8.0                                    | 7.5     |
|                | 0.75                   | 18  | 8.0                                    | 7.5     |
| HDD            | 1.0                    | 18  | 8.0                                    | 7.5     |
| HM(10A)        | 1.5                    | 16  | 8.0                                    | 7.5     |
|                | 2.5                    | 14  | 8.0                                    | 7.5     |
|                | 4.0                    | 12  | -                                      | 7.5     |

- HEC/HEE 系列 Series
- HEEE 系列 Series
- HM 系列 Series (40A)

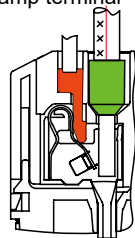


- ◆ 预制了带压接针的电缆束  
Pre-preparation of cable forms with crimp contacts fitted
- ◆ 从根本上提高了布线速度  
Optimum cost cable connection

| 接插芯<br>Inserts | 最大线规<br>Max.wire gauge |     | 剥线长度 L (mm)<br>Stripping length L (mm) |  |
|----------------|------------------------|-----|--|--|
|                | mm <sup>2</sup>        | AWG | HEE/HM (40A)                           |  |
| HEC            | 0.5                    | 20  | 7.5                                    |  |
|                | 0.75                   | 18  | 7.5                                    |  |
| HEE            | 1.0                    | 18  | 7.5                                    |  |
| HEEE           | 1.5                    | 16  | 7.5                                    |  |
| HM(40A)        | 2.5                    | 14  | 7.5                                    |  |
|                | 4.0                    | 12  | 7.5                                    |  |

## 弹片压接端子形式 Cage-clamp terminal

- HAS 系列 Series
- HESH 系列 Series



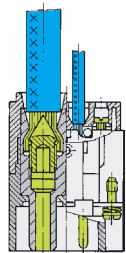
- 这种连接技术对操作和工具的要求较小，且具有较高的功能安全性。  
This termination method requires very little preparation of the wire and on special tools, leading to a low installed cost and a high degree of mechanical security.
- ◆ 由于操作人员可以看到导线和螺丝刀，因此具有较高的操作舒适度。  
Ease of termination. Conductor and screwdriver are in same plane.

| 接插芯<br>Inserts | 最大线规<br>Max.wire gauge |       | 剥线长度 L (mm)<br>Stripping length L (mm) |
|----------------|------------------------|-------|--|
|                | mm <sup>2</sup>        | AWG   |  |
| HAS, HESH      | 0.14-2.5               | 26-14 | 9-11                                   |

- ◆ 无需对导线头进行特殊处理。  
No special preparation of stripped conductor.
- ◆ 安装状态下可从接线侧进行检测。  
From the terminal side for testing installation condition.
- ◆ 夹紧力随导线截面的增加而提高。  
The larger the conductor the higher the clamping force.
- ◆ 导线连接防振动和冲击。  
The termination is vibration-proof.

## 轴向螺栓压接形式 Axial screw terminal

- HK6/6
- HK6/12
- HK8/0



- ◆ 节省空间  
Less space required
- ◆ 操作简单  
Easy handling
- ◆ 无需专用工具  
No special tools

| 接插芯<br>Inserts | 最大线规<br>Max.wire gauge |       | 剥线长度 L (mm)<br>Stripping length L(mm) |
|----------------|------------------------|-------|---------------------------------------|
|                | mm <sup>2</sup>        | AWG   |                                       |
| HK6/6          | 16-35                  | 5-2   | 13-14                                 |
| HK6/12         | 2.5-10                 | 13/-1 | 8-9                                   |
| HK8/0          | 10-25                  | 16/-1 | 6-7                                   |

## 建议使用的拧紧力矩和螺丝刀的尺寸 Recommended screw drivers and tightening torques

| 螺钉尺寸<br>Size of screw | 接插件类型<br>Connector type   | 拧紧力矩 (Ø)<br>Tightening torque [Nm] | 拧紧力矩 (Ø)<br>Tightening torque [Nm] | 建议使用螺丝刀尺寸<br>Recommended size of screw driver |
|-----------------------|---|------------------------------------|------------------------------------|---|
| M3                    | 螺钉端子 Screw terminal<br>HA-003/HA-004/HQ-005   | 0.25                               | 0.20                               | 0.4 x 2.5                                     |
| M3                    | 螺钉端子 Screw terminal<br>HA-010/HA-016  | 0.50                               | 0.40                               | 0.5 x 3.5<br>or ± size 1                      |
| M3                    | 螺钉端子 HE, HVAE 定位及固定用<br>Screw terminal HE, HVAE fixing screws of all kinds, guiding pins and bushes | 0.50                               | 0.40                               | 0.5 x 3.5                                     |
| M4                    | 接地端子螺钉 Ground terminal HA,HE, HD,HDD  | 1.20                               | 0.90                               | 0.5 x 3.5<br>or ± size 1+2                    |
| M4                    | 端子块 Terminal blocks HSB   | 1.20                               | 0.90                               | 0.8 x 4.5                                     |
| M5                    | 接地端子螺钉 Ground terminal HSB  | 2.00                               | 1.40                               | 0.8 x 4.5<br>1.2 x 8.0                        |

# 订购说明 HOW TO ORDER

订购一个完整的连接器时应包含如下零件:

For a complete connector components may be ordered from the following sub headings

## 1 接插件公插 Male insert

公插体接线形式有: 螺钉压接、冷压接、弹片压接形式、轴向螺栓压接  
Male insert with screw terminal / crimp terminal / spring terminal / rolled contacts terminal / axial screw terminal/rapid terminal

## 2 接插件母插 Female insert

母插体接线形式有: 螺钉压接、冷压接、弹片压接形式、轴向螺栓压接  
Female insert with screw terminal/crimp terminal/spring terminal/rolled contacts terminal/axial screw terminal/rapid terminal

## 3 防护外壳上壳 Hoods

形式有: 低或高结构, 侧面或顶部进线、2 或 4 耳、单或双扣形式  
Hoods with low or high construction, side or top cable entry, 2 or 4 bolts, 1 or 2 locking levers.

## 4 底座 Housings

形式有: 开孔安装底座、带或不带保护盖、单扣或双扣形式。表面安装底座: 低结构或高结构、带或不带保护盖、2 或 4 耳、单或双扣、1 或 2 个出线孔形式  
Bulkhead mounting housings with or without protection cover, 1 or 2 locking levers. Surface mountings with low or high construction, with or without protection cover, 2 or 4 blots, 1 or 2 locking levers, 1 or 2 cable entries.

## 5 电缆接头进线保护 Cable entry protection

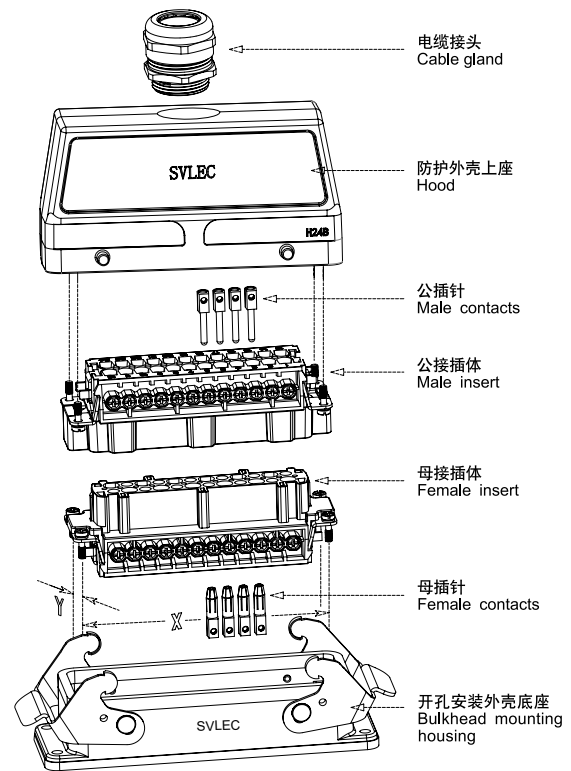
金属或塑料电缆接头 Metal or plastic cable glands  
金属或塑料软管接头 Metal or plastic hose glands  
特殊电缆保护附件 Special cable entry protection or extensive range of accessories.

## 其它附件 Accessories

各种类型的保护盖、编码销、导轨安装框架等  
Protection cover available, code and guide pins for coding. Inserts fixing screws for use without hoods and housings.

## 上壳和底座对应名称 The name of the hood and housing

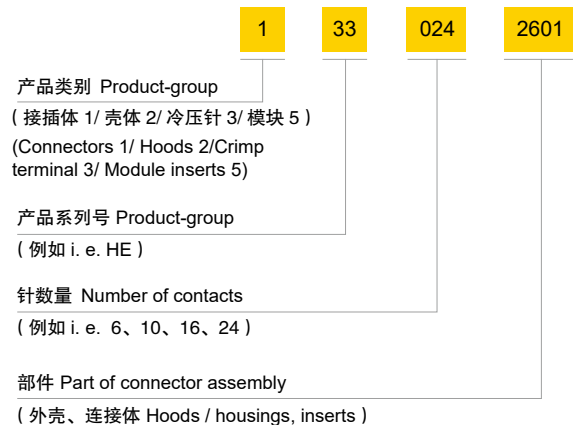
| 上壳 Hood                    |   |                            |  |
|----------------------------|---|----------------------------|--|
| 两耳上壳 Hood with 2 levers    |   | 四耳上壳 Hood with 4 levers    |  |
| TS-RO                      | 侧面出线, 低结构<br>Side-entry, Low construction                                       | TS                         | 侧面出线, 低结构<br>Side-entry, Low construction                  |
| TG-RO                      | 顶部出线, 低结构<br>Top-entry, Low construction  | TG                         | 顶部出线, 低结构<br>Top-entry, Low construction                   |
| TSH-RO                     | 侧面出线, 高结构<br>Side-entry, High construction                                      | TSH                        | 侧面出线, 高结构<br>Side-entry, High construction                 |
| TGH-RO                     | 顶部出线, 高结构<br>Top-entry, High construction                                       | TGH                        | 顶部出线, 高结构<br>Top-entry, High construction                  |
| 底座 Housing                 |   |                            |  |
| 单扣底座 Housing with 1 levers |   | 双扣底座 Housing with 2 levers |  |
| AG-LB                      | 开孔安装底座<br>Bulkhead mounting   | AG                         | 开孔安装底座<br>Bulkhead mounting                                |
| AD-LB                      | 开孔安装带盖底座<br>Bulkhead mounting cover   | AD                         | 开孔安装带盖底座<br>Bulkhead mounting cover                        |
| SGR-LB                     | 表面安装底座, 低结构<br>Surface mounting, Low construction                               | SGR                        | 表面安装底座, 低结构<br>Surface mounting, Low construction          |
| SDR-LB                     | 表面安装带盖底座, 低结构<br>Surface mounting cover, Low construction                       | SDR                        | 表面安装带盖底座, 低结构<br>Surface mounting cover, Low construction  |
| SGRH-LB                    | 表面安装, 高结构<br>Surface mounting, High construction                                | SGRH                       | 表面安装, 高结构<br>Surface mounting, High construction           |
| SDRH-LB                    | 表面安装带盖底座, 高结构<br>Surface mounting cover, High construction                      | SDRH                       | 表面安装带盖底座, 高结构<br>Surface mounting cover, High construction |
| 其它上壳 Other hood            |   |                            |  |
| TSB                        | 侧面出线上壳带双扣, 低结构 Side-entry, double locking lever, Low construction               |                            |  |
| TGB                        | 顶部出线上壳带双扣, 低结构 Top-entry, double locking lever, Low construction                |                            |  |
| TSBH                       | 侧面出线上壳带双扣, 高结构 Side-entry, double locking lever, High construction              |                            |  |
| TGBH                       | 顶部出线上壳带双扣, 高结构 Top-entry, double locking lever, High construction               |                            |  |
| 其它底座 Other housing         |   |                            |  |
| TBF                        | 电缆对接下壳带双扣, 低结构 Cable to cable coupling, double locking lever, Low construction  |                            |  |
| TBF-LB                     | 电缆对接下壳带单扣, 低结构 Cable to cable coupling, single locking lever, Low construction  |                            |  |
| TBFH                       | 电缆对接下壳带双扣, 高结构 Cable to cable coupling, double locking lever, High construction |                            |  |
| TBFH-LB                    | 电缆对接下壳带单扣, 高结构 Cable to cable coupling, single locking lever, High construction |                            |  |



订货号说明 Our computerize ordering system uses the following code

为了便于数据处理, 订货时采用如下订货方式:

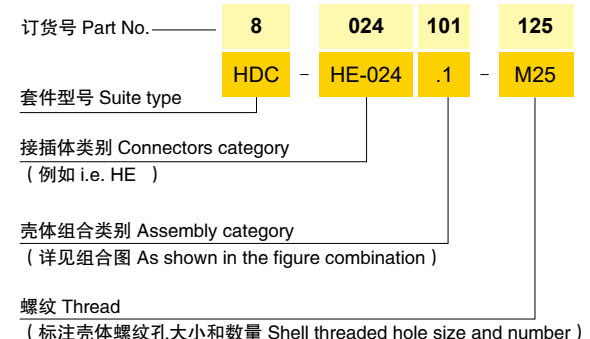
Our computerized ordering system uses the following code:



套件订货说明 Ordering system computerized

为了便于数据处理, 订货时也可采用如下订货方式:

Our computerized ordering system uses the following code:



# 常用套件组合 SET GENERAL INTRODUCTION

## HA 系列 Series 3 回路 螺钉 250V,10A ; 弹片 400V,10A



开孔侧出 Side-entry & bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8003001120 |
| 弹片压接订货号 Part No. | 8103001120 |



开孔顶出 Top-entry & bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8003002120 |
| 弹片压接订货号 Part No. | 8103002120 |



侧开孔顶出 Top-entry & Side-bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8003003120 |
| 弹片压接订货号 Part No. | 8103003120 |



表面顶出 Top-entry & surface

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8003004120 |
| 弹片压接订货号 Part No. | 8103004120 |



对接顶出 Top-entry & cable to cable

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8003009120 |
| 弹片压接订货号 Part No. | 8103009120 |



开孔带盖顶出 Top-entry & Side-bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8003006120 |
| 弹片压接订货号 Part No. | 8103006120 |

## HA 系列 Series 4 回路 螺钉 250V,10A ; 弹片 400V,10A



开孔侧出 Side-entry & bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8004001120 |
| 弹片压接订货号 Part No. | 8104001120 |



开孔顶出 Top-entry & bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8004002120 |
| 弹片压接订货号 Part No. | 8104002120 |



侧开孔顶出 Top-entry & Side-bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8004003120 |
| 弹片压接订货号 Part No. | 8104003120 |



表面顶出 Top-entry & surface

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8004004120 |
| 弹片压接订货号 Part No. | 8104004120 |



对接顶出 Top-entry & cable to cable

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8004009120 |
| 弹片压接订货号 Part No. | 8104009120 |



开孔带盖顶出 Top-entry & Side-bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8004006120 |
| 弹片压接订货号 Part No. | 8104006120 |



# 常用套件组合 SET GENERAL INTRODUCTION

## HA 系列 Series 10 回路 250V,16A



开孔侧出 Side-entry & bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8010001120 |
| 直插式接订货号 Part No. | 8110001120 |



开孔顶出 Top-entry & bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8010002120 |
| 直插式接订货号 Part No. | 8110002120 |



侧开孔顶出 Top-entry & Side-bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8010003220 |
| 直插式接订货号 Part No. | 8110003220 |



表面顶出 Top-entry & surface

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8010004220 |
| 直插式接订货号 Part No. | 8110004220 |



对接顶出 Top-entry & cable to cable

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8010005120 |
| 直插式接订货号 Part No. | 8110005120 |



开孔带盖顶出 Top-entry & Side-bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8010006120 |
| 直插式接订货号 Part No. | 8110006120 |

## HA 系列 Series 16 回路 250V,16A



开孔侧出 Side-entry & bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8016001125 |
| 直插式接订货号 Part No. | 8116001125 |



开孔顶出 Top-entry & bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8016002125 |
| 直插式接订货号 Part No. | 8116002125 |



侧开孔顶出 Top-entry & Side-bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8016003225 |
| 直插式接订货号 Part No. | 8116003225 |



表面顶出 Top-entry & surface

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8016004225 |
| 直插式接订货号 Part No. | 8116004225 |



对接顶出 Top-entry & cable to cable

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8016005125 |
| 直插式接订货号 Part No. | 8116005125 |



开孔带盖顶出 Top-entry & Side-bulkhead

|                  |            |
|------------------|------------|
| 螺钉压接订货号 Part No. | 8016006125 |
| 直插式接订货号 Part No. | 8116006125 |

# 常用套件组合 SET GENERAL INTRODUCTION

## HA 系列 Series 32 回路 250V,16A



|                            |            |
|----------------------------|------------|
| 开孔侧出 Side-entry & bulkhead |            |
| 螺钉压接订货号 Part No.           | 8032001132 |
| 弹片压接订货号 Part No.           | 8132001132 |



|                           |            |
|---------------------------|------------|
| 开孔顶出 Top-entry & bulkhead |            |
| 螺钉压接订货号 Part No.          | 8032002132 |
| 弹片压接订货号 Part No.          | 8132002132 |



|                           |            |
|---------------------------|------------|
| 表面侧出 Side-entry & surface |            |
| 螺钉压接订货号 Part No.          | 8032003132 |
| 弹片压接订货号 Part No.          | 8132003132 |



|                          |            |
|--------------------------|------------|
| 表面顶出 Top-entry & surface |            |
| 螺钉压接订货号 Part No.         | 8032004132 |
| 弹片压接订货号 Part No.         | 8132004132 |

常用套件组合



# 常用套件组合 SET GENERAL INTRODUCTION

## HE 系列 Series 6 回路 500V,16A



|                            |            |
|----------------------------|------------|
| 开孔侧出 Side-entry & bulkhead |            |
| 螺钉压接订货号 Part No.           | 8006101120 |
| 快速压接订货号 Part No.           | 8106101120 |

|                           |            |
|---------------------------|------------|
| 开孔顶出 Top-entry & bulkhead |            |
| 螺钉压接订货号 Part No.          | 8006102120 |
| 快速压接订货号 Part No.          | 8106102120 |

|                           |            |
|---------------------------|------------|
| 表面侧出 Side-entry & surface |            |
| 螺钉压接订货号 Part No.          | 8006103220 |
| 快速压接订货号 Part No.          | 8106103220 |

|                          |            |
|--------------------------|------------|
| 表面顶出 Top-entry & surface |            |
| 螺钉压接订货号 Part No.         | 8006104220 |
| 快速压接订货号 Part No.         | 8106104220 |



|                                    |            |
|------------------------------------|------------|
| 开孔带盖侧出 Side-entry & bulkhead cover |            |
| 螺钉压接订货号 Part No.                   | 8006105120 |
| 快速压接订货号 Part No.                   | 8106105120 |

|                                   |            |
|-----------------------------------|------------|
| 开孔带盖顶出 Top-entry & bulkhead cover |            |
| 螺钉压接订货号 Part No.                  | 8006106120 |
| 快速压接订货号 Part No.                  | 8106106120 |

|                                 |            |
|---------------------------------|------------|
| 对接顶出 Top-entry & cable to cable |            |
| 螺钉压接订货号 Part No.                | 8006109220 |
| 快速压接订货号 Part No.                | 8106109220 |

|                                   |            |
|-----------------------------------|------------|
| 表面带盖侧出 Side-entry & surface cover |            |
| 螺钉压接订货号 Part No.                  | 8006107220 |
| 快速压接订货号 Part No.                  | 8106107220 |

## HE 系列 Series 10 回路 500V,16A



|                            |            |
|----------------------------|------------|
| 开孔侧出 Side-entry & bulkhead |            |
| 螺钉压接订货号 Part No.           | 8010101120 |
| 快速压接订货号 Part No.           | 8110101120 |

|                           |            |
|---------------------------|------------|
| 开孔顶出 Top-entry & bulkhead |            |
| 螺钉压接订货号 Part No.          | 8010102120 |
| 快速压接订货号 Part No.          | 8110102120 |

|                           |            |
|---------------------------|------------|
| 表面侧出 Side-entry & surface |            |
| 螺钉压接订货号 Part No.          | 8010103220 |
| 快速压接订货号 Part No.          | 8110103220 |

|                          |            |
|--------------------------|------------|
| 表面顶出 Top-entry & surface |            |
| 螺钉压接订货号 Part No.         | 8010104220 |
| 快速压接订货号 Part No.         | 8110104220 |



|                                    |            |
|------------------------------------|------------|
| 开孔带盖侧出 Side-entry & bulkhead cover |            |
| 螺钉压接订货号 Part No.                   | 8010105120 |
| 快速压接订货号 Part No.                   | 8110105120 |

|                                   |            |
|-----------------------------------|------------|
| 开孔带盖顶出 Top-entry & bulkhead cover |            |
| 螺钉压接订货号 Part No.                  | 8010106120 |
| 快速压接订货号 Part No.                  | 8110106120 |

|                                 |            |
|---------------------------------|------------|
| 对接顶出 Top-entry & cable to cable |            |
| 螺钉压接订货号 Part No.                | 8010109220 |
| 快速压接订货号 Part No.                | 8110109220 |

|                              |            |
|------------------------------|------------|
| 开孔单扣侧出 Side-entry & bulkhead |            |
| 螺钉压接订货号 Part No.             | 8010111120 |
| 快速压接订货号 Part No.             | 8110111120 |

# 常用套件组合 SET GENERAL INTRODUCTION

## HE 系列 Series 16 回路 500V,16A

|   |            |   |            |  |            |   |            |
|---|------------|---|------------|--|------------|---|------------|
|  |            |  |            |  |            |  |            |
| <b>开孔侧出 Side-entry &amp; bulkhead</b>   |            | <b>开孔顶出 Top-entry &amp; bulkhead</b>  |            | <b>表面侧出 Side-entry &amp; surface</b>   |            | <b>表面顶出 Top-entry &amp; surface</b>   |            |
| 螺钉压接订货号 Part No.  | 8016101125 | 螺钉压接订货号 Part No.  | 8016102125 | 螺钉压接订货号 Part No.   | 8016103225 | 螺钉压接订货号 Part No.  | 8016104225 |
| 快速压接订货号 Part No.  | 8116101125 | 快速压接订货号 Part No.  | 8116102125 | 快速压接订货号 Part No.   | 8116103225 | 快速压接订货号 Part No.  | 8116104225 |
|  |            |  |            |  |            |  |            |
| <b>开孔带盖侧出 Side-entry &amp; bulkhead cover</b>                                     |            | <b>开孔带盖顶出 Top-entry &amp; bulkhead cover</b>                                      |            | <b>对接顶出 Top-entry &amp; cable to cable</b>   |            | <b>开孔单扣侧出 Side-entry &amp; bulkhead</b>   |            |
| 螺钉压接订货号 Part No.  | 8016105125 | 螺钉压接订货号 Part No.  | 8016106125 | 螺钉压接订货号 Part No.   | 8016109225 | 螺钉压接订货号 Part No.  | 8016111125 |
| 快速压接订货号 Part No.  | 8116105125 | 快速压接订货号 Part No.  | 8116106125 | 快速压接订货号 Part No.   | 8116109225 | 快速压接订货号 Part No.  | 8116111125 |

## HE 系列 Series 24 回路 500V,16A

|   |            |   |            |  |            |   |            |
|---|------------|---|------------|--|------------|---|------------|
|  |            |  |            |  |            |  |            |
| <b>开孔侧出 Side-entry &amp; bulkhead</b>   |            | <b>开孔顶出 Top-entry &amp; bulkhead</b>  |            | <b>表面侧出 Side-entry &amp; surface</b>   |            | <b>表面顶出 Top-entry &amp; surface</b>   |            |
| 螺钉压接订货号 Part No.  | 8024101125 | 螺钉压接订货号 Part No.  | 8024102125 | 螺钉压接订货号 Part No.   | 8024103225 | 螺钉压接订货号 Part No.  | 8024104225 |
| 快速压接订货号 Part No.  | 8124101125 | 快速压接订货号 Part No.  | 8124102125 | 快速压接订货号 Part No.   | 8124103225 | 快速压接订货号 Part No.  | 8124104225 |
|  |            |  |            |  |            |  |            |
| <b>开孔带盖侧出 Side-entry &amp; bulkhead cover</b>                                       |            | <b>开孔带盖顶出 Top-entry &amp; bulkhead cover</b>  |            | <b>对接顶出 Top-entry &amp; cable to cable</b>   |            | <b>开孔单扣侧出 Side-entry &amp; bulkhead</b>   |            |
| 螺钉压接订货号 Part No.  | 8024105125 | 螺钉压接订货号 Part No.  | 8024106125 | 螺钉压接订货号 Part No.   | 8024109225 | 螺钉压接订货号 Part No.  | 8024111125 |
| 快速压接订货号 Part No.  | 8124105125 | 快速压接订货号 Part No.  | 8124106125 | 快速压接订货号 Part No.   | 8124109225 | 快速压接订货号 Part No.  | 8124111125 |

# 常用套件组合 SET GENERAL INTRODUCTION

## HE 系列 Series 32 回路 500V,16A



开孔侧出 Side-entry & bulkhead

开孔顶出 Top-entry & bulkhead

表面侧出 Side-entry & surface

表面顶出 Top-entry & surface

螺钉压接订货号 Part No. 8032101132

螺钉压接订货号 Part No. 8032102132

螺钉压接订货号 Part No. 8032103232

螺钉压接订货号 Part No. 8032104232

快速压接订货号 Part No. 8132101132

快速压接订货号 Part No. 8132102132

快速压接订货号 Part No. 8132103232

快速压接订货号 Part No. 8132104232



开孔带盖侧出 Side-entry & bulkhead cover

开孔带盖顶出 Top-entry & bulkhead cover

对接顶出 Top-entry & cable to cable

开孔单扣侧出 Side-entry & bulkhead

螺钉压接订货号 Part No. 8032105132

螺钉压接订货号 Part No. 8032106132

螺钉压接订货号 Part No. 8032109232

螺钉压接订货号 Part No. 8032111132

快速压接订货号 Part No. 8132105132

快速压接订货号 Part No. 8132106132

快速压接订货号 Part No. 8132109232

快速压接订货号 Part No. 8132111132

## HE 系列 Series 48 回路 500V,16A



开孔侧出 Side-entry & bulkhead

开孔顶出 Top-entry & bulkhead

表面侧出 Side-entry & surface

表面顶出 Top-entry & surface

螺钉压接订货号 Part No. 8048101132

螺钉压接订货号 Part No. 8048102132

螺钉压接订货号 Part No. 8048103232

螺钉压接订货号 Part No. 8048104232

快速压接订货号 Part No. 8148101132

快速压接订货号 Part No. 8148102132

快速压接订货号 Part No. 8148103232

快速压接订货号 Part No. 8148104232



常用套件组合

# 直插式重载连接器产品介绍 QUICK LOCK TERMINAL

## 功能描述 Function description

**1** 在开孔安装场合,直插式连接器可实现连接器预安装在柜体上,再接线,如图一

可实现连接器预安装在柜体上,再接线

不能实现连接器预安装在柜体上,需先把底座固定在柜体上,然后把线接在芯件上,再把芯件固定到底座上

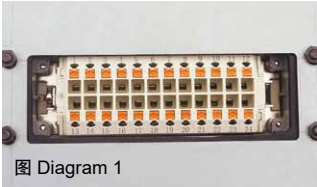


图 Diagram 1



**2** 为不影响柜内接线的整洁及规范、柜内的线束长度一般会尽量缩短,螺钉安装的连接由于压接螺丝被壳体遮挡,需要把线预留的长一些拉到柜体外,先接到连接器上再固定外壳,这时柜内的线就会过长,影响布线工艺 如图二

直插式 Quick lock terminal

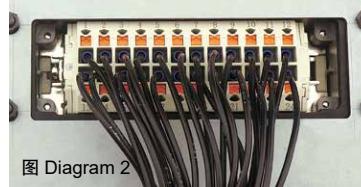


图 Diagram 2

其它压接方式 Other terminal



**3** 直插式接线方式可轻松的接线,当产品需增减某些线束时,直插式连接器也不需要拆装连接器壳体就可实现,如图三

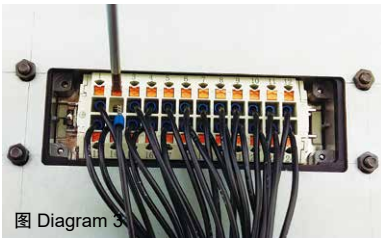


图 Diagram 3

**4** 直插式连接器为用户预留的测试孔,可实现带电测试,如图四

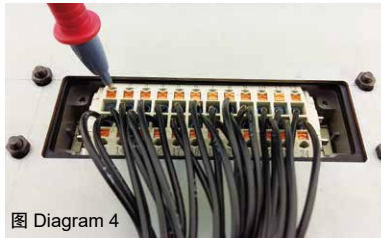
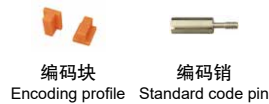


图 Diagram 4

**5** 直插式连接器运用编码块(图五)替代传统的编码销,实现多个连接器防插错,工艺简单、成本极低、将编码块压入插槽内即可实现(图六)

图 Diagram 5



编码块 Encoding profile      编码销 Standard code pin

传统连接器运用编码销,需要先把固定螺丝取下,换上编码销,操作麻烦,且价格相比编码块高昂。

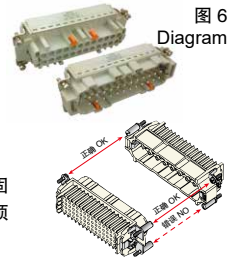
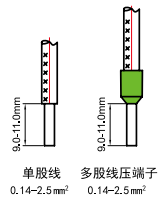


图 6 Diagram

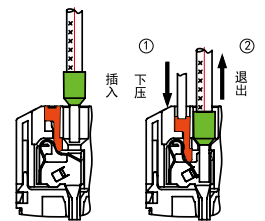
## 直插式新品

| 产品系列 Series               | HA  |            |   |            |
|---------------------------|---|------------|---|------------|
| 针数 Number of contacts     | 10 + ⊕  |            | 16 + ⊕  |            |
| 接线方式 Termination terminal | 快速压接 Quick lock Cage clamp terminal                                   |            | 快速压接 Quick lock Cage clamp terminal                                   |            |
|                           | <p>M      16A      F<br/>250V<br/>0.5-2.5 mm<sup>2</sup><br/>H10A</p> |            | <p>M      16A      F<br/>250V<br/>0.5-2.5 mm<sup>2</sup><br/>H16A</p> |            |
| 额定电流 Rated current        |   |            |   |            |
| 额定电压 Rated voltage        |   |            |   |            |
| 线规 Wire gauge             |   |            |   |            |
| 适配外壳 Size                 |   |            |   |            |
| 公接插针 Male insert (M)      | HASH-010-M  | 1200102633 | HASH-016-M  | 1200162633 |
| 母接插针 Female insert (F)    | HASH-010-F  | 1200102833 | HASH-016-F  | 1200162833 |

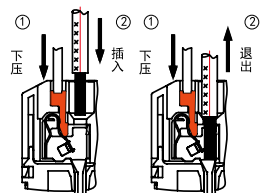
## 产品使用说明



剥线长度







单股线或多股线压端子






单股硬线或多股软线不压端子

| 产品系列 Series               | HEE  |            |  |            |
|---------------------------|--|------------|--|------------|
| 针数 Number of contacts     | 32 + ⊕   |            | 46 + ⊕   |            |
| 接线方式 Termination terminal | 快速压接 Quick lock Cage clamp terminal                                    |            | 快速压接 Quick lock Cage clamp terminal                                    |            |
|                           | <p>M      16A      F<br/>500V<br/>0.14-4.0 mm<sup>2</sup><br/>H16B</p> |            | <p>M      16A      F<br/>500V<br/>0.14-4.0 mm<sup>2</sup><br/>H24B</p> |            |
| 额定电流 Rated current        |  |            |  |            |
| 额定电压 Rated voltage        |  |            |  |            |
| 线规 Wire gauge             |  |            |  |            |
| 适配外壳 Size                 |  |            |  |            |
| 公接插针 Male insert (M)      | HEESH-032-M  | 1320323033 | HEESH-046-M  | 1320463033 |
| 母接插针 Female insert (F)    | HEESH-032-F  | 1320323133 | HEESH-046-F  | 1320463133 |

# HA 小型接插体 CONNECT THE SMALL BODY

| 产品系列 Series               | HA  |            |   |            |  |            |   |            |
|---------------------------|---|------------|---|------------|--|------------|---|------------|
| 针数 Number of contacts     | 3 + ⊕   |            | 3 + ⊕   |            | 4 + ⊕  |            | 4 + ⊕   |            |
| 接线方式 Termination terminal | 螺钉压接 Screw terminal   |            | 弹片压接 Cage clamp terminal  |            | 螺钉压接 Screw terminal  |            | 弹片压接 Cage clamp terminal  |            |
|                           |  |            |  |            |  |            |  |            |
| 额定电流 Rated current        | 10A   |            | 10A   |            | 10A  |            | 10A   |            |
| 额定电压 Rated voltage        | 250V  |            | 400V  |            | 250V   |            | 400V  |            |
| 线规 Wire gauge             | 0.5-1.5 mm <sup>2</sup>   |            | 0.14-2.5 mm <sup>2</sup>  |            | 0.5-1.5 mm <sup>2</sup>  |            | 0.14-2.5 mm <sup>2</sup>  |            |
| 适配外壳 Size                 | H3A   |            | H3A   |            | H3A  |            | H3A   |            |
| 公接插针 Male insert ( M )    | HA-003-M  | 1200032611 | HAS-003-M   | 1200032633 | HA-004-M   | 1200042611 | HAS-004-M   | 1200042633 |
| 母接插针 Female insert ( F )  | HA-003-F  | 1200032711 | HAS-003-F   | 1200032733 | HA-004-F   | 1200042711 | HAS-004-F   | 1200042733 |

| 产品系列 Series               | HA  |            |   |            |   |            |                    |            |
|---------------------------|---|------------|---|------------|---|------------|--------------------|------------|
| 针数 Number of contacts     | 10 + ⊕  |            | 16 + ⊕  |            | 32 + ⊕  |            |                    |            |
| 接线方式 Termination terminal | 螺钉压接 Screw terminal   |            | 螺钉压接 Screw terminal   |            | 螺钉压接 Screw terminal   |            |                    |            |
|                           |  |            |  |            |  |            |                    |            |
| 额定电流 Rated current        | 16A   |            | 16A   |            | 16A   |            |                    |            |
| 额定电压 Rated voltage        | 250V  |            | 250V  |            | 250V  |            |                    |            |
| 线规 Wire gauge             | 0.5-2.5 mm <sup>2</sup>   |            | 0.5-2.5 mm <sup>2</sup>   |            | 0.5-2.5 mm <sup>2</sup>   |            |                    |            |
| 适配外壳 Size                 | H10A  |            | H16A  |            | H32A  |            |                    |            |
| 公接插针 Male insert ( M )    | HA-010-M  | 1200102612 | HA-016-M  | 1200162612 | HA-016-M ( 1-16 )   | 1200162612 | HA-032-M ( 17-32 ) | 1200162613 |
| 母接插针 Female insert ( F )  | HA-010-F  | 1200102812 | HA-016-F  | 1200162812 | HA-016-F ( 1-16 )   | 1200162812 | HA-032-F ( 17-32 ) | 1200162813 |

## 常规型插芯技术参数 Technical characteristics



### 1 插芯 Inserts




|  |                          |
|--|--------------------------|
| 接插件针数 Number of contacts                   | 3,4,10,16,24,32(2X16)+PE |
| 依据 EN 61 984 的电气数据 Electrical data         |                          |
| HA-003、HA-004                              |                          |
| - 额定电流 Rated current                       | 10A                      |
| - 相对地额定电压 Rated voltage conductor-ground   | 230V                     |
| - 相对额定电压 Rated voltage conductor-conductor | 400V                     |
| - 额定脉冲电压 Rated impulse voltage             | 4KV                      |
| - 污染程度 Pollution degree                    | 3                        |
| - 或 or                                     | 10A 250V 4KV 3           |
| HA-010、HA-016                              |                          |
| - 额定电流 Rated current                       | 16A                      |
| - 额定电压 Rated voltage                       | 250V                     |
| - 额定脉冲电压 Rated impulse voltage             | 4KV                      |
| - 污染程度 Pollution degree                    | 3                        |
| - 污染程度 2 时的参数 Pollution degree 2 also      | 16A 230/400V 4kV 2       |
| 依据 UL/CSA 额定电压 Rated voltage               | 600V                     |
| 绝缘电阻 Insulation resistance                 | ≥10 <sup>10</sup> Ω      |
| 材料 Material                                | 聚碳酸酯 Polycarbonate       |
| 工作温度范围 Limiting temperatures               | -40℃ ...+125℃            |
| 阻燃等级 Flammability                          | V0                       |
| 可拔插次数 Mating cycles                        | ≥500                     |




### 2 插针 Contacts




|                                      |  |
|--------------------------------------|--|
| 材料 Material                          | 铜合金 Copper alloy                             |
| 表面处理 Surface                         | 镀金 Hard-gold plated                          |
|                                      | 镀银 Hard-silver plated                        |
| 接触电阻 Contact resistance              | ≤ 1mΩ  |
| 螺钉连接 Screw terminal                  |  |
| - 3/4 芯导线规格 Wire specifications      | 0.5-1.5 mm <sup>2</sup>                      |
| - 10/16/32 芯导线规格 Wire specifications | 0.5-2.5 mm <sup>2</sup>                      |
| -AWG                                 | 18-14  |
| - 拧紧 / 检测力矩 Tightening torque        | 0.25Nm (HA-003/004) or<br>0.5Nm (HA-010/016) |
| 弹片连接 Cage-c                          |  |
| - 导线规格 Wire specifications           | 0.14-2.5 mm <sup>2</sup>                     |
| -AWG                                 | 26-14  |

# HE 常规接插体 CONVENTIONAL TYPE PLUG

| 产品系列 Series               | HE  |            |  |            |   |            |
|---------------------------|---|------------|--|------------|---|------------|
| 针数 Number of contacts     | 6 + ⊕   |            | 6 + ⊕  |            | 6 + ⊕   |            |
| 接线方式 Termination terminal | 螺钉压接 Screw terminal   |            | 快速压接 / 弹片式 Quick lockCage clamp terminal   |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                    |            |
|                           |  |            |  |            |  |            |
|                           | M   | F          | M  | F          | M   | F          |
| 额定电流 Rated current        | 16A   |            | 16A  |            | 16A   |            |
| 额定电压 Rated voltage        | 500V  |            | 500V   |            | 500V  |            |
| 线规 Wire gauge             | 0.5-2.5 mm <sup>2</sup>   |            | 0.14-2.5 mm <sup>2</sup>   |            | 0.14-4.0 mm <sup>2</sup>  |            |
| 适配外壳 Size                 | H6B   |            | H6B  |            | H6B   |            |
| 公接插针 Male insert ( M )    | HE-006-M  | 1330062601 | HESH-006-M   | 1330062633 | HEC-006-M   | 1330062602 |
| 母接插针 Female insert ( F )  | HE-006-F  | 1330062701 | HESH-006-F   | 1330062733 | HEC-006-F   | 1330062702 |

| 产品系列 Series               | HE  |            |  |            |   |            |
|---------------------------|---|------------|--|------------|---|------------|
| 针数 Number of contacts     | 10 + ⊕  |            | 10 + ⊕   |            | 10 + ⊕  |            |
| 接线方式 Termination terminal | 螺钉压接 Screw terminal   |            | 快速压接 / 弹片式 Quick lockCage clamp terminal   |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                    |            |
|                           |  |            |  |            |  |            |
|                           | M   | F          | M  | F          | M   | F          |
| 额定电流 Rated current        | 16A   |            | 16A  |            | 16A   |            |
| 额定电压 Rated voltage        | 500V  |            | 500V   |            | 500V  |            |
| 线规 Wire gauge             | 0.5-2.5 mm <sup>2</sup>   |            | 0.14-2.5 mm <sup>2</sup>   |            | 0.14-4.0 mm <sup>2</sup>  |            |
| 适配外壳 Size                 | H10B  |            | H10B   |            | H10B  |            |
| 公接插针 Male insert ( M )    | HE-010-M  | 1330102601 | HESH-010-M   | 1330102633 | HEC-010-M   | 1330102602 |
| 母接插针 Female insert ( F )  | HE-010-F  | 1330102701 | HESH-010-F   | 1330102733 | HEC-010-F   | 1330102702 |

| 产品系列 Series               | HE  |            |  |            |   |            |
|---------------------------|---|------------|--|------------|---|------------|
| 针数 Number of contacts     | 16 + ⊕  |            | 16 + ⊕   |            | 16 + ⊕  |            |
| 接线方式 Termination terminal | 螺钉压接 Screw terminal   |            | 快速压接 / 弹片式 Quick lockCage clamp terminal   |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                      |            |
|                           |  |            |  |            |  |            |
|                           | M   | F          | M  | F          | M   | F          |
| 额定电流 Rated current        | 16A   |            | 16A  |            | 16A   |            |
| 额定电压 Rated voltage        | 500V  |            | 500V   |            | 500V  |            |
| 线规 Wire gauge             | 0.5-2.5 mm <sup>2</sup>   |            | 0.14-2.5 mm <sup>2</sup>   |            | 0.14-4.0 mm <sup>2</sup>  |            |
| 适配外壳 Size                 | H16B  |            | H16B   |            | H16B  |            |
| 公接插针 Male insert ( M )    | HE-016-M  | 1330162601 | HESH-016-M   | 1330162633 | HEC-016-M   | 1330162602 |
| 母接插针 Female insert ( F )  | HE-016-F  | 1330162701 | HESH-016-F   | 1330162733 | HEC-016-F   | 1330162702 |

| 产品系列 Series               | HE  |            |  |            |   |            |
|---------------------------|---|------------|--|------------|---|------------|
| 针数 Number of contacts     | 24 + ⊕  |            | 24 + ⊕   |            | 24 + ⊕  |            |
| 接线方式 Termination terminal | 螺钉压接 Screw terminal   |            | 快速压接 / 弹片式 Quick lockCage clamp terminal   |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                      |            |
|                           |  |            |  |            |  |            |
|                           | M   | F          | M  | F          | M   | F          |
| 额定电流 Rated current        | 16A   |            | 16A  |            | 16A   |            |
| 额定电压 Rated voltage        | 500V  |            | 500V   |            | 500V  |            |
| 线规 Wire gauge             | 0.5-2.5 mm <sup>2</sup>   |            | 0.14-2.5 mm <sup>2</sup>   |            | 0.14-4.0 mm <sup>2</sup>  |            |
| 适配外壳 Size                 | H24B  |            | H24B   |            | H24B  |            |
| 公接插针 Male insert ( M )    | HE-024-M  | 1330242601 | HESH-024-M   | 1330242633 | HEC-024-M   | 1330242602 |
| 母接插针 Female insert ( F )  | HE-024-F  | 1330242701 | HESH-024-F   | 1330242733 | HEC-024-F   | 1330242702 |



# HE 常规接插体 CONVENTIONAL TYPE PLUG

| 产品系列 Series               | HE                      |            |   |            |  |            |
|---------------------------|-------------------------|------------|---|------------|--|------------|
| 针数 Number of contacts     | 32 + ⊕                  |            | 32 + ⊕                                    |            | 32 + ⊕   |            |
| 接线方式 Termination terminal | 螺钉压接 Screw terminal     |            | 快速压接 / 弹片式 Quick lock/Cage clamp terminal |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) |            |
| 额定电流 Rated current        | 16A                     |            | 16A                                       |            | 16A  |            |
| 额定电压 Rated voltage        | 500V                    |            | 500V                                      |            | 500V   |            |
| 线规 Wire gauge             | 0.5-2.5 mm <sup>2</sup> |            | 0.14-2.5 mm <sup>2</sup>                  |            | 0.14-4.0 mm <sup>2</sup>   |            |
| 适配外壳 Size                 | H32B                    |            | H32B                                      |            | H32B   |            |
| 公接插针 Male insert ( M )    | HE-016-M ( 1-16 )       | 1330162601 | HESH-016-M ( 1-16 )                       | 1330162633 | HEC-016-M ( 1-16 )   | 1330162602 |
|                           | HE-032-M ( 17-32 )      | 1330162611 | HESH-032-M ( 17-32 )                      | 1330162634 | HEC-032-M ( 17-32 )  | 1330162612 |
| 母接插针 Female insert ( F )  | HE-016-F ( 1-16 )       | 1330162701 | HESH-016-F ( 1-16 )                       | 1330162733 | HEC-016-F ( 1-16 )   | 1330162702 |
|                           | HE-032-F ( 17-32 )      | 1330162711 | HESH-032-F ( 17-32 )                      | 1330162734 | HEC-032-F ( 17-32 )  | 1330162712 |

| 产品系列 Series               | HE                      |            |   |            |  |            |
|---------------------------|-------------------------|------------|---|------------|--|------------|
| 针数 Number of contacts     | 48 + ⊕                  |            | 48 + ⊕                                    |            | 48 + ⊕   |            |
| 接线方式 Termination terminal | 螺钉压接 Screw terminal     |            | 快速压接 / 弹片式 Quick lock/Cage clamp terminal |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) |            |
| 额定电流 Rated current        | 16A                     |            | 16A                                       |            | 16A  |            |
| 额定电压 Rated voltage        | 500V                    |            | 500V                                      |            | 500V   |            |
| 线规 Wire gauge             | 0.5-2.5 mm <sup>2</sup> |            | 0.14-2.5 mm <sup>2</sup>                  |            | 0.14-4.0 mm <sup>2</sup>   |            |
| 适配外壳 Size                 | H48B                    |            | H48B                                      |            | H48B   |            |
| 公接插针 Male insert ( M )    | HE-024-M ( 1-24 )       | 1330242601 | HESH-024-M ( 1-24 )                       | 1330242633 | HEC-024-M ( 1-24 )   | 1330242602 |
|                           | HE-048-M ( 25-48 )      | 1330242611 | HESH-048-M ( 25-48 )                      | 1330242634 | HEC-048-M ( 25-48 )  | 1330242612 |
| 母接插针 Female insert ( F )  | HE-024-F ( 1-24 )       | 1330242701 | HESH-024-F ( 1-24 )                       | 1330242733 | HEC-024-F ( 1-24 )   | 1330242702 |
|                           | HE-048-F ( 25-48 )      | 1330242711 | HESH-048-F ( 25-48 )                      | 1330242734 | HEC-048-F ( 25-48 )  | 1330242712 |

## HE 常规型插芯技术参数 Technical parameters of conventional mortise

### 1 插芯 Inserts

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| 接插件针数 Inserts Number of contacts      | 6, 10, 16, 24, 32(2X16), 48(2X24)+PE |
| 依据 EN 61 984 的额定电压 Electrical data    |                                      |
| - 额定电流 Rated current                  | 16A                                  |
| - 额定电压 Rated voltage                  | 500V                                 |
| - 额定脉冲电压 Rated impulse voltage        | 6KV                                  |
| - 污染程度 Pollution degree               | 3                                    |
| - 污染程度 2 时的参数 Pollution degree 2 also | 16A 400/690V 6kV 2                   |
| 依据 UL/CSA 额定电压 Rated voltage          | 600V                                 |
| 绝缘电阻 Insulation resistance            | ≥10 <sup>10</sup> Ω                  |
| 材料 Material                           | 聚碳酸酯 Polycarbonate                   |
| 工作温度范围 Limiting temperatures          | -40℃ ...+125℃                        |
| 依据 UL94 的阻燃等级 Flammability acc.       | V0                                   |
| 可拔插次数 Mating cycles                   | ≥500                                 |

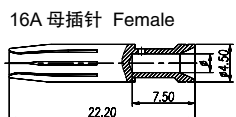
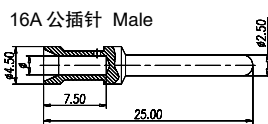
### 2 插针 Contacts

|                               |  |
|-------------------------------|--|
| 材料 Material                   | 铜合金 Copper alloy                             |
| 表面处理 Surface                  | 镀金 Hard-gold plated<br>镀银 Hard-silver plated |
| 接触电阻 Contact resistance       | ≤ 1mΩ  |
| 螺钉连接 Screw terminal           |  |
| - 导线规格 Wire specifications    | 0.5-2.5mm <sup>2</sup>                       |
| - AWG                         | 26-14  |
| - 拧紧 / 检测力矩 Tightening torque | 0.5Nm  |
| - 剥线长度 Stripping length       | 7.0mm  |
| 弹片连接 Cage-clamp terminal      |  |
| - 导线规格 Wire specifications    | 0.14-2.5mm <sup>2</sup>                      |
| - AWG                         | 26-14  |
| - 剥线长度 Stripping length       | 7-9mm  |
| 冷压连接 Crimp terminal           |  |
| - 导线规格 Wire specifications    | 0.14-4.0mm <sup>2</sup>                      |
| - AWG                         | 26-12  |
| - 剥线长度 Stripping length       | 7.5mm  |

## 16A 镀银冷压针 Crimp contacts, silver-plated




### 技术参数 Technical data

材质: 铜镀银  
Material: Copper, hard silver  
接触电阻 Contact resistance: ≤ 1mΩ  
接线形式: 冷压接线  
Termination methods: Crimp connection



| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度<br>Stripping length | 公接插针 Male insert<br>型号 Type | 公接插针 Male insert<br>订货号 Part No. | 母接插针 Female insert<br>型号 Type | 母接插针 Female insert<br>订货号 Part No. |            |
|-------------------------------------|--------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------------|------------|
| 0.14-0.37                           | AWG26-22                 | 7.5mm                       | CEM-0.37                         | 3330006127                    | CEF-0.37                           | 3330006227 |
| 0.5                                 | AWG20                    | 7.5mm                       | CEM-0.5                          | 3330006121                    | CEF-0.5                            | 3330006221 |
| 0.75                                | AWG18                    | 7.5mm                       | CEM-0.75                         | 3330006114                    | CEF-0.75                           | 3330006214 |
| 1.0                                 | AWG18                    | 7.5mm                       | CEM-1.0                          | 3330006105                    | CEF-1.0                            | 3330006205 |
| 1.5                                 | AWG16                    | 7.5mm                       | CEM-1.5                          | 3330006104                    | CEF-1.5                            | 3330006204 |
| 2.5                                 | AWG14                    | 7.5mm                       | CEM-2.5                          | 3330006102                    | CEF-2.5                            | 3330006202 |
| 4.0                                 | AWG12                    | 7.5mm                       | CEM-4.0                          | 3330006107                    | CEF-4.0                            | 3330006207 |

# HVE 高电压型接插体 CONNECT THE HIGH VOLTAGE TYPE BODY

| 产品系列 Series               | HVE   |            |  |            |   |            |
|---------------------------|---|------------|--|------------|---|------------|
| 针数 Number of contacts     | 3 + ⊕   |            | 6 + ⊕  |            | 10 + ⊕  |            |
| 接线方式 Termination terminal | 螺钉压接 Screw terminal<br>保险针 Safe high voltage connections                          |            | 螺钉压接 Screw terminal<br>保险针 Safe high voltage connections                           |            | 螺钉压接 Screw terminal<br>保险针 Safe high voltage connections                            |            |
|                           |  |            |  |            |  |            |
|                           | M   | F          | M  | F          | M   | F          |
| 额定电流 Rated current        | 16A   |            | 16A  |            | 16A   |            |
| 额定电压 Rated voltage        | 830V  |            | 830V   |            | 830V  |            |
| 线规 Wire gauge             | 0.5-2.5 mm <sup>2</sup>   |            | 0.5-2.5 mm <sup>2</sup>  |            | 0.5-2.5 mm <sup>2</sup>   |            |
| 适配外壳 Size                 | H10B  |            | H16B   |            | H24B  |            |
| 公接插针 Male insert ( M )    | HVE-003+2-M   | 1340032601 | HVE-006+2-M  | 1340062601 | HVE-010+2-M   | 1340102601 |
| 母接插针 Female insert ( F )  | HVE-003+2-F   | 1340032701 | HVE-006+2-F  | 1340062701 | HVE-010+2-F   | 1340102701 |

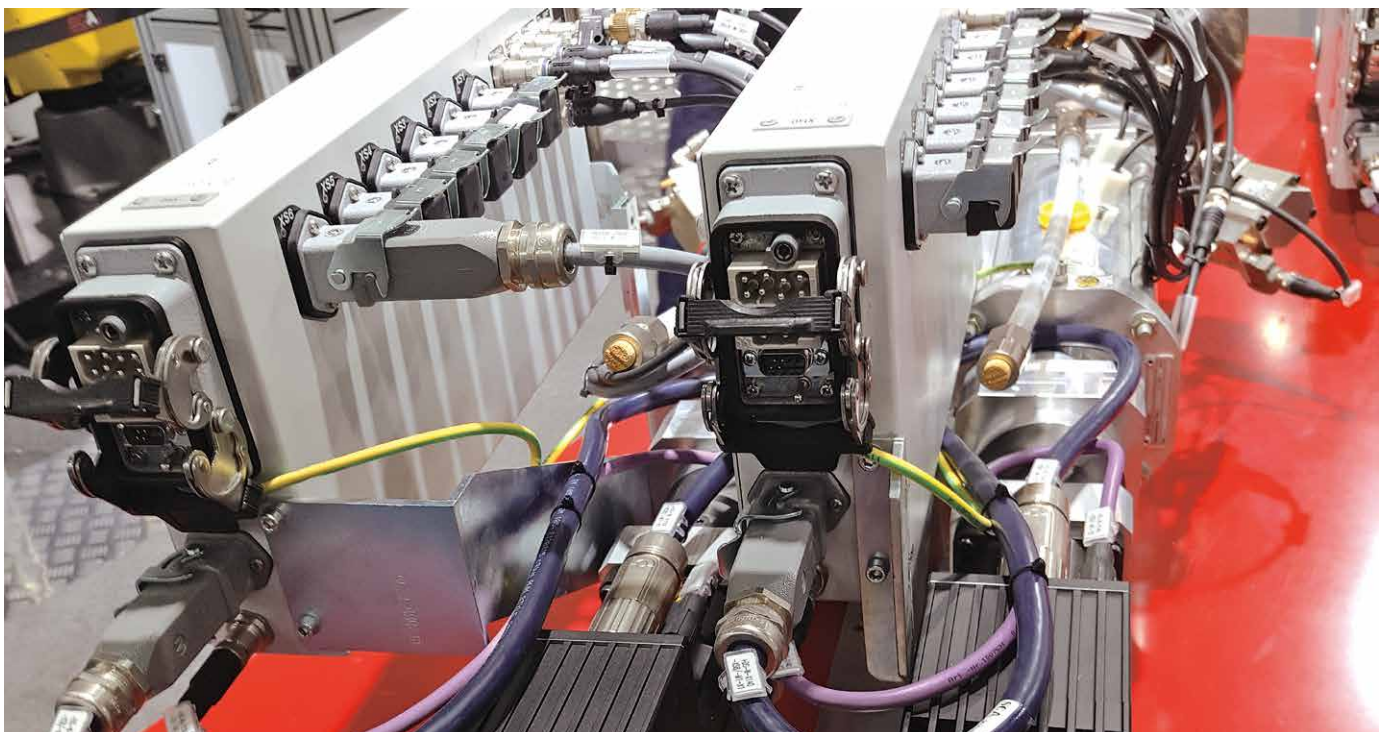
## 高电压型插芯技术参数 High-voltage plug core technical parameter

### 1 插芯 Inserts




|  |                      |
|--|----------------------|
| 依据 DIN EN 61984 的电气数据                  |                      |
| - 额定电流 Rated current                   | 16A                  |
| - 额定电压 Rated voltage                   | 830V                 |
| - 额定脉冲电压 Rated impulse voltage         | 8KV                  |
| - 污染程度 Pollution degree                | 3                    |
| - 当污染程度 2 时的参数 Pollution degree 2 also | 16A 1000V 8kV 2      |
| - 或 Or                                 | 16A 720V/1250V 8kV 2 |
| - 保险加长针 Insurance and long needle      | 16A 500V 6kV 3       |
| 依据 UL/CSA 额定电压 Rated voltage           | 600V                 |
| 保险延迟针 Insurance delay pin              | 250V                 |
| 绝缘电阻 Insulation resistance             | ≥10 <sup>10</sup> Ω  |
| 材料 Material                            | 聚碳酸酯 Polycarbonate   |
| 工作温度范围 Limiting temperatures           | -40℃ ...+125℃        |
| 阻燃等级 Flammability                      | V0                   |
| 可拔插次数 Mating cycles                    | ≥500                 |




### 2 插针 Contacts




|                                |                        |
|--------------------------------|------------------------|
| 材料 Material                    | 铜合金 Copper alloy       |
| 表面处理 Surface                   | 镀银 Hard-silver plated  |
| 接触电阻 Contact resistance        | ≤ 1mΩ                  |
| 螺钉连接 Screw terminal            |                        |
| - 导线规格 Wire specifications     | 0.5-2.5mm <sup>2</sup> |
| -AWG                           | 26-14                  |
| - 拧紧 / 检测力矩 Tightening tourque | 0.5Nm                  |
| - 剥线长度 Stripping length        | 7.0mm                  |



# HEE 高密度型接插体 HIGH DENSITY TYPE PLUG

| 产品系列 Series               | HEE   |   |   |
|---------------------------|---|---|---|
| 针数 Number of contacts     | 10 + $\oplus$   | 18 + $\oplus$   | 32 + $\oplus$   |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  |   |   |
|                           |  |  |  |
| 额定电流 Rated current        | 16A   | 16A   | 16A   |
| 额定电压 Rated voltage        | 500V  | 500V  | 500V  |
| 线规 Wire gauge             | 0.14-4.0 mm <sup>2</sup>  | 0.14-4.0 mm <sup>2</sup>  | 0.14-4.0 mm <sup>2</sup>  |
| 适配外壳 Size                 | H6B   | H10B  | H16B  |
| 公接插针 Male insert ( M )    | HEE-010-M 1320103001  | HEE-018-M 1320183001  | HEE-032-M 1320323001  |
| 母接插针 Female insert ( F )  | HEE-010-F 1320103101  | HEE-018-F 1320183101  | HEE-032-F 1320323101  |

| 产品系列 Series               | HEE   |   |   |
|---------------------------|---|---|---|
| 针数 Number of contacts     | 46 + $\oplus$   | 64 + $\oplus$   | 92 + $\oplus$   |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  |   |   |
|                           |  |  |  |
| 额定电流 Rated current        | 16A   | 16A   | 16A   |
| 额定电压 Rated voltage        | 500V  | 500V  | 500V  |
| 线规 Wire gauge             | 0.14-4.0 mm <sup>2</sup>  | 0.14-4.0 mm <sup>2</sup>  | 0.14-4.0 mm <sup>2</sup>  |
| 适配外壳 Size                 | H24B  | H32B  | H48B  |
| 公接插针 Male insert ( M )    | HEE-046-M 1320463001  | HEE-032-M ( 1-32 ) 1320323001<br>HEE-064-M ( 33-64 ) 1320323011                   | HEE-046-M ( 1-46 ) 1320463001<br>HEE-092-M ( 47-92 ) 1320463011                     |
| 母接插针 Female insert ( F )  | HEE-046-F 1320463101  | HEE-032-F ( 1-32 ) 1320323101<br>HEE-064-F ( 33-64 ) 1320323111                   | HEE-046-F ( 1-46 ) 1320463101<br>HEE-092-F ( 47-92 ) 1320463111                     |

| 产品系列 Series               | HEEE  |   |   |
|---------------------------|---|---|---|
| 针数 Number of contacts     | 40 + $\oplus$   | 64 + $\oplus$   | 72 + $\oplus$   |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                    |   |   |
|                           |  |  |  |
| 额定电流 Rated current        | 16A   | 16A   | 16A   |
| 额定电压 Rated voltage        | 400V  | 400V  | 400V  |
| 线规 Wire gauge             | 0.14-4.0 mm <sup>2</sup>  | 0.14-4.0 mm <sup>2</sup>  | 0.14-4.0 mm <sup>2</sup>  |
| 适配外壳 Size                 | H16B  | H24B  | H24B  |
| 公接插针 Male insert ( M )    | HEEE-040-M 1320403001   | HEEE-064-M 1320643001   | HEEE-072-M 1320723001   |
| 母接插针 Female insert ( F )  | HEEE-040-F 1320403101   | HEEE-064-F 1320643101   | HEEE-072-F 1320723101   |

## 16A 镀银冷压针 Crimp contacts, silver-plated

### 技术参数 Technical data

材质: 铜镀银

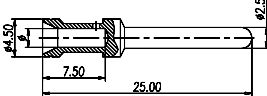
Material: Copper, hard silver

接触电阻 Contact resistance:  $\leq 1\text{m}\Omega$

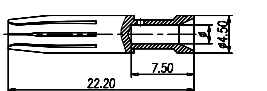
接线形式: 冷压接线

Termination methods: Crimp connection

16A 公插针 Male



16A 母插针 Female



CEM



CEF



| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度<br>Stripping length | 公接插针 Male insert<br>型号 Type | 公接插针 Male insert<br>订货号 Part No. | 母接插针 Female insert<br>型号 Type | 母接插针 Female insert<br>订货号 Part No. |
|-------------------------------------|--------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------------|
| 0.14-0.37                           | AWG26-22                 | CEM-0.37                    | 3330006127                       | CEF-0.37                      | 3330006227                         |
| 0.5                                 | AWG20                    | CEM-0.5                     | 3330006121                       | CEF-0.5                       | 3330006221                         |
| 0.75                                | AWG18                    | CEM-0.75                    | 3330006114                       | CEF-0.75                      | 3330006214                         |
| 1.0                                 | AWG18                    | CEM-1.0                     | 3330006105                       | CEF-1.0                       | 3330006205                         |
| 1.5                                 | AWG16                    | CEM-1.5                     | 3330006104                       | CEF-1.5                       | 3330006204                         |
| 2.5                                 | AWG14                    | CEM-2.5                     | 3330006102                       | CEF-2.5                       | 3330006202                         |
| 4.0                                 | AWG12                    | CEM-4.0                     | 3330006107                       | CEF-4.0                       | 3330006207                         |

## 高密度型插芯技术参数 High density-ferrule technology parameters

### 1 插芯 Inserts

|                                       |                            |
|---------------------------------------|----------------------------|
| 接插件针数 Inserts Number of contacts      | 10,18,32,46,40,64,64(2X32) |
|                                       | 92(2X46)+PE                |
| 依据 EN 61984 的电气数据 Electrical data     |                            |
| - 额定电流 Rated current                  | 16A                        |
| - 额定电压 Rated voltage                  | 500V                       |
| - 额定脉冲电压 Rated impulse voltage        | 6kV                        |
| - 污染程度 Pollution degree               | 3                          |
| - 污染程度 2 时的参数 Pollution degree 2 also | 16A 830V 8kV 2             |
| 依据 UL/CSA 额定电压 Rated voltage          | 600V                       |
| 绝缘电阻 Insulation resistance            | $\geq 10^{10}\Omega$       |
| 材料 Material                           | 聚碳酸酯 Polycarbonate         |
| 工作温度范围 Limiting temperatures          | -40℃ ... +125℃             |
| 依据 UL94 的阻燃等级 Flammability            | V0                         |
| 可拔插次数 Mating cycles                   | $\geq 500$                 |

### 2 插针 Contacts

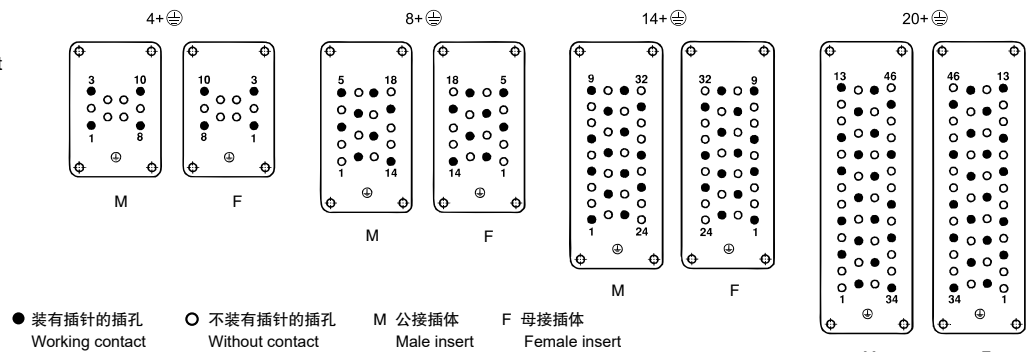
|                            |                          |
|----------------------------|--------------------------|
| 材料 Material                | 铜合金 Copper alloy         |
| 表面处理 Surface               | 镀金 Hard-gold plated      |
|                            | 镀银 Hard-silver plated    |
| 接触电阻 Contact resistance    | $\leq 1m\Omega$          |
| 冷压连接 Crimp terminal        |                          |
| - 导线规格 Wire specifications | 0.14-4.0 mm <sup>2</sup> |
| - AWG                      | 26-12                    |
| - 剥线长度 Stripping length    | 7.5 mm                   |

## HEE 调整插针分布可提高工作电压至 Modified contact arrangement up to 1000V

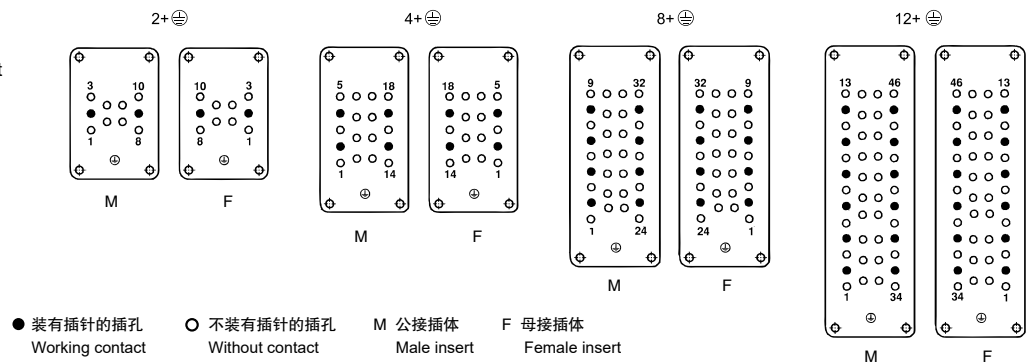
HEE 接插件在装满针时，在绝缘等级 3(C) 时，其工作电压可达到 500V。但其插针分布经过调整，同样在绝缘等级 3(C) 时，其工作电压允许值可达到 1000V。

The connector series HEE equipped with all contacts may be used for voltages up to 500V ~ insulation group C. A modified contact loading arrangement permits use up to 1000V ~ also in insulation group C.




调整后插针分布  
Modified contact arrangement  
690V- 绝缘等级 3C  
Insulation group C







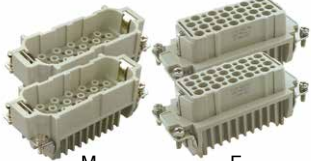
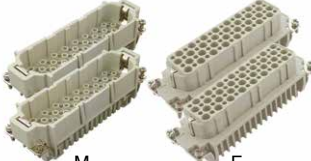
调整后插针分布  
Modified contact arrangement  
1000V- 绝缘等级 3C  
Insulation group C



# HD 超高密度型接插体 HIGH PIN COUNT CONNECTORS

| 产品系列 Series               | HD  |            |   |            |   |            |
|---------------------------|---|------------|---|------------|---|------------|
| 针数 Number of contacts     | 7 + ⊕   |            | 8 + ⊕   |            | 15 + ⊕  |            |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                    |            |
|                           |  |            |  |            |  |            |
|                           | M   | F          | M   | F          | M   | F          |
| 额定电流 Rated current        | 10A   |            | 10A   |            | 10A   |            |
| 额定电压 Rated voltage        | 250V  |            | 50V   |            | 250V  |            |
| 线规 Wire gauge             | 0.14-2.5 mm <sup>2</sup>  |            | 0.14-2.5 mm <sup>2</sup>  |            | 0.14-2.5 mm <sup>2</sup>  |            |
| 适配外壳 Size                 | H3A   |            | H3A   |            | H10A  |            |
| 公接插针 Male insert ( M )    | HD-007-M  | 1210073031 | HD-008-M  | 1360083001 | HD-015-M  | 1210153001 |
| 母接插针 Female insert ( F )  | HD-007-F  | 1210073131 | HD-008-F  | 1360083101 | HD-015-F  | 1210153101 |

| 产品系列 Series               | HD  |            |  |            |   |            |
|---------------------------|---|------------|--|------------|---|------------|
| 针数 Number of contacts     | 25 + ⊕  |            | 40 + ⊕   |            | 64 + ⊕  |            |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                   |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                    |            |
|                           |  |            |  |            |  |            |
|                           | M   | F          | M  | F          | M   | F          |
| 额定电流 Rated current        | 10A   |            | 10A  |            | 10A   |            |
| 额定电压 Rated voltage        | 250V  |            | 250V   |            | 250V  |            |
| 线规 Wire gauge             | 0.14-2.5 mm <sup>2</sup>  |            | 0.14-2.5 mm <sup>2</sup>   |            | 0.14-2.5 mm <sup>2</sup>  |            |
| 适配外壳 Size                 | H16A  |            | H16B   |            | H24B  |            |
| 公接插针 Male insert ( M )    | HD-025-M  | 1210253001 | HD-040-M   | 1210403001 | HD-064-M  | 1210643001 |
| 母接插针 Female insert ( F )  | HD-025-F  | 1210253101 | HD-040-F   | 1210403101 | HD-064-F  | 1210643101 |

| 产品系列 Series               | HD  |            |  |            |   |            |
|---------------------------|---|------------|--|------------|---|------------|
| 针数 Number of contacts     | 50 + ⊕  |            | 80 + ⊕   |            | 128 + ⊕   |            |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                    |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                     |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                      |            |
|                           |  |            |  |            |  |            |
|                           | M   | F          | M  | F          | M   | F          |
| 额定电流 Rated current        | 10A   |            | 10A  |            | 10A   |            |
| 额定电压 Rated voltage        | 250V  |            | 250V   |            | 250V  |            |
| 线规 Wire gauge             | 0.14-2.5 mm <sup>2</sup>  |            | 0.14-2.5 mm <sup>2</sup>   |            | 0.14-2.5 mm <sup>2</sup>  |            |
| 适配外壳 Size                 | H32A  |            | H32B   |            | H48B  |            |
| 公接插针 Male insert ( M )    | HD-025-M (1-25)   | 1210253001 | HD-040-M (1-40)  | 1210403001 | HD-064-M (1-64)   | 1210643001 |
|                           | HD-025-M (1-25)   | 1210253001 | HD-040-M (1-40)  | 1210403001 | HD-064-M (1-64)   | 1210643001 |
| 母接插针 Female insert ( F )  | HD-025-F (1-25)   | 1210253101 | HD-040-F (1-40)  | 1210403101 | HD-064-F (1-64)   | 1210643101 |
|                           | HD-025-F (1-25)   | 1210253101 | HD-040-F (1-40)  | 1210403101 | HD-064-F (1-64)   | 1210643101 |

## 10A 镀银冷压针 Crimp contacts, silver-plated

### 技术参数 Technical data

材质: 铜镀银 / 金

Material: Copper, hard silver / gold plated

接触电阻 Contact resistance: ≤ 3mΩ

接线形式: 冷压接线

Termination methods: Crimp connection

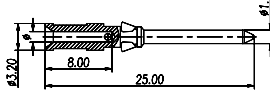
CDM



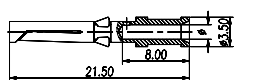
CDF



10A 公插针 Male



10A 母插针 Female



| 线径 (mm)<br>Wire gauge | 接线长度<br>Stripping length | 公接插针 Male insert<br>型号 Type | 公接插针 Male insert<br>订货号 Part No. | 母接插针 Female insert<br>型号 Type | 母接插针 Female insert<br>订货号 Part No. |            |
|-----------------------|--------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------------|------------|
| 0.14-0.37             | AWG26-22                 | 8.0mm                       | CDM-0.37                         | 3150006104                    | CDF-0.37                           | 3150006204 |
| 0.5                   | AWG20                    | 8.0mm                       | CDM-0.5                          | 3150006103                    | CDF-0.5                            | 3150006203 |
| 0.75                  | AWG18                    | 8.0mm                       | CDM-0.75                         | 3150006105                    | CDF-0.75                           | 3150006205 |
| 1.0                   | AWG18                    | 8.0mm                       | CDM-1.0                          | 3150006102                    | CDF-1.0                            | 3150006202 |
| 1.5                   | AWG16                    | 8.0mm                       | CDM-1.5                          | 3150006101                    | CDF-1.5                            | 3150006201 |
| 2.5                   | AWG14                    | 8.0mm                       | CDM-2.5                          | 3150006106                    | CDF-2.5                            | 3150006206 |

## 超高密度型插芯技术参数 Technical characteristics

### 1 插芯 Inserts

|  |   |
|--|---|
| 接插件针数 Inserts Number of contacts       | 7, 8, 15, 25, 40, 50(25x2), 64, 80(40x2),<br>128(64x2)+PE |
| 按照 DIN EN 61984 的电气数据 Electrical data  |   |
| - 额定电流 Rated current                   | 10A   |
| - 额定电压 Rated voltage                   | 250V  |
| - 额定脉冲电压 Rated impulse voltage         | 4kV   |
| - 污染程度 Pollution degree                | 3   |
| - 当污染程度 2 时的参数 Pollution degree 2 also | 10A 230/400V 4kV 2  |
| - 依据 UL/CSA 额定电压 Rated voltage         | 600V  |
| - 依据 CSA 绕线连接的额定电压                     | 2A 30V  |
| HD-008 的电气数据 Electrical data           |   |
| - 额定电流 Rated current                   | 10A   |
| - 额定电压 Rated voltage                   | ~50V/-120V  |
| - 额定脉冲电压 Rated impulse voltage         | 4kV   |
| - 污染程度 Pollution degree                | 3   |
| - 依据 UL/CSA 额定电压 Rated voltage         | 50V   |
| - 额定电压 (直流电压) Rated voltage            | 120V  |
| 绝缘电阻 Insulation resistance             | $\geq 10^{10}\Omega$                                      |
| 材料 Material                            | 聚碳酸酯 Polycarbonate  |
| 工作温度范围 Limiting temperatures           | -40°C ...+125°C   |
| 依据 UL94 的阻燃等级 Flammability             | V0  |
| 可拔插次数 Mating cycles                    | $\geq 500$  |

### 2 插针 Contacts

|                            |                         |
|----------------------------|-------------------------|
| 材料 Material                | 铜合金 Copper alloy        |
| 表面处理 Surface               | 镀银 Hard-silver plated   |
|                            | 镀金 Hard-gold plated     |
| 接触电阻 Contact resistance    | $\leq 3m\Omega$         |
| 冷压连接                       |                         |
| - 导线规格 Wire specifications | 0.14-2.5mm <sup>2</sup> |
| -AWG                       | 26-14                   |



HD 接插体

## HD 调整插针分布可提高工作电压至 Modified contact arrangement up to 500V

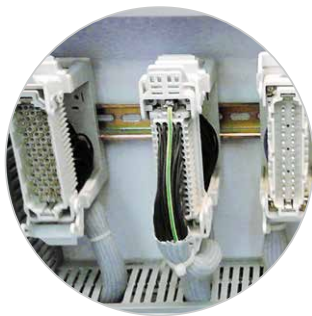
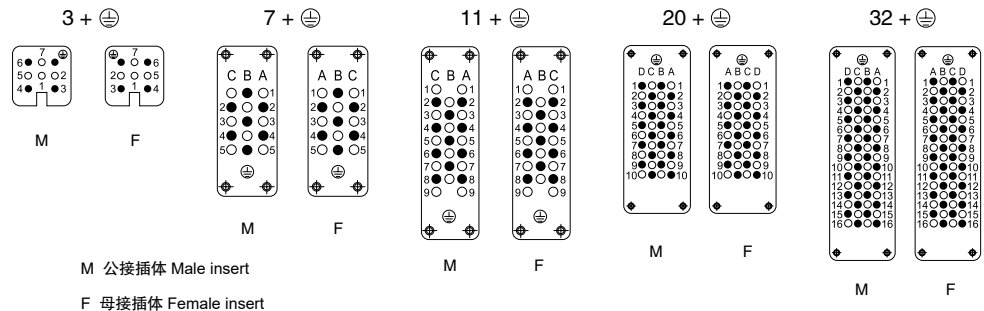
HD 接插体在装满针时，在绝缘等级 3(C) 时，其工作电压可达到 250V。但其插针分布经过调整，同样在绝缘等级 3(C) 时，其工作电压允许值可达到 500V。

The connector series HD equipped with all contacts may be used for voltages up to 250V ~ insulation group C. A modified contact loading arrangement permits use up to 500V ~ also in insulation group C.

### 调整后插针分布

Modified contact arrangement

10A 500V 6kV 3



柜内安装采用导轨式案例



连接线缆是通过穿墙板接到柜内连接器







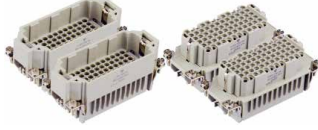
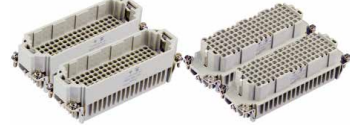
采用柜内安装开口部分可配合穿墙板使用



柜内安装采用表面壳体案例

# HDD 超高密度型接插体 HIGH PIN COUNT CONNECTORS

| 产品系列 Series               | HDD   |            |   |            |   |            |
|---------------------------|---|------------|---|------------|---|------------|
| 针数 Number of contacts     | 24 + Ⓢ  |            | 42 + Ⓢ  |            | 72 + Ⓢ  |            |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                    |            |
|                           |  |            |  |            |  |            |
|                           | M   | F          | M   | F          | M   | F          |
| 额定电流 Rated current        | 10A   |            | 10A   |            | 10A   |            |
| 额定电压 Rated voltage        | 250V  |            | 250V  |            | 250V  |            |
| 线规 Wire gauge             | 0.14-2.5 mm <sup>2</sup>  |            | 0.14-2.5 mm <sup>2</sup>  |            | 0.14-2.5 mm <sup>2</sup>  |            |
| 适配外壳 Size                 | H6B   |            | H10B  |            | H16B  |            |
| 公接插针 Male insert ( M )    | HDD-024-M   | 1160243001 | HDD-042-M   | 1160423001 | HDD-072-M   | 1160723001 |
| 母接插针 Female insert ( F )  | HDD-024-F   | 1160243101 | HDD-042-F   | 1160423101 | HDD-072-F   | 1160723101 |

| 产品系列 Series               | HDD   |            |  |            |   |            |
|---------------------------|---|------------|--|------------|---|------------|
| 针数 Number of contacts     | 108 + Ⓢ   |            | 144 + Ⓢ  |            | 216 + Ⓢ   |            |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                   |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                    |            |
|                           |  |            |  |            |  |            |
|                           | M   | F          | M  | F          | M   | F          |
| 额定电流 Rated current        | 10A   |            | 10A  |            | 10A   |            |
| 额定电压 Rated voltage        | 250V  |            | 250V   |            | 250V  |            |
| 线规 Wire gauge             | 0.14-2.5 mm <sup>2</sup>  |            | 0.14-2.5 mm <sup>2</sup>   |            | 0.14-2.5 mm <sup>2</sup>  |            |
| 适配外壳 Size                 | H24B  |            | H32B   |            | H48B  |            |
| 公接插针 Male insert ( M )    | HDD-108-M   | 1161083001 | HDD-072-M ( 1-72 )   | 1160723001 | HDD-108-M ( 1-108 )   | 1161083001 |
|                           |   |            | HDD-144-M (73-144)   | 1160723011 | HDD-216-M (109-216)   | 1161083011 |
| 母接插针 Female insert ( F )  | HDD-108-F   | 1161083101 | HDD-072-F ( 1-72 )   | 1160723101 | HDD-108-F ( 1-108 )   | 1161083101 |
|                           |   |            | HDD-144-F(73-144)  | 1160723111 | HDD-216-F(109-216)  | 1161083111 |

## 10A 镀银冷压针 Crimp contacts, silver-plated

### 技术参数 Technical data

材质: 铜镀银 / 金

Material: Copper, hard silver / gold plated

接触电阻 Contact resistance: ≤ 3mΩ

接线形式: 冷压接线

Termination methods: Crimp connection

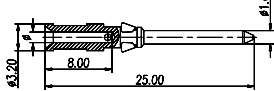
CDM



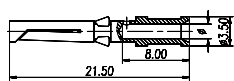
CDF



10A 公插针 Male



10A 母插针 Female



| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度<br>Stripping length | 公接插针 Male insert<br>型号 Type | 公接插针 Male insert<br>订货号 Part No. | 母接插针 Female insert<br>型号 Type | 母接插针 Female insert<br>订货号 Part No. |            |
|-------------------------------------|--------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------------|------------|
| 0.14-0.37                           | AWG26-22                 | 8.0mm                       | CDM-0.37                         | 3150006104                    | CDF-0.37                           | 3150006204 |
| 0.5                                 | AWG20                    | 8.0mm                       | CDM-0.5                          | 3150006103                    | CDF-0.5                            | 3150006203 |
| 0.75                                | AWG18                    | 8.0mm                       | CDM-0.75                         | 3150006105                    | CDF-0.75                           | 3150006205 |
| 1.0                                 | AWG18                    | 8.0mm                       | CDM-1.0                          | 3150006102                    | CDF-1.0                            | 3150006202 |
| 1.5                                 | AWG16                    | 8.0mm                       | CDM-1.5                          | 3150006101                    | CDF-1.5                            | 3150006201 |
| 2.5                                 | AWG14                    | 8.0mm                       | CDM-2.5                          | 3150006106                    | CDF-2.5                            | 3150006206 |



# HQ 接插体 CONNECTOR

| 产品系列 Series               | HQ                               |            |                                  |            |                                  |            |                                  |            |  |            |
|---------------------------|----------------------------------|------------|----------------------------------|------------|----------------------------------|------------|----------------------------------|------------|--|------------|
| 针数 Number of contacts     | 5 + ♂                            |            | 7 + ♂                            |            | 12 + ♂                           |            | 8 + ♂                            |            | 4/2 + ♂  |            |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购) |            | 冷压接 Crimp terminal<br>(冷压针请单独订购) |            | 冷压接 Crimp terminal<br>(冷压针请单独订购) |            | 冷压接 Crimp terminal<br>(冷压针请单独订购) |            | 冷压接 Crimp terminal<br>(冷压针请单独订购)                   |            |
| 额定电流 Rated current        | 16A                              |            | 10A                              |            | 10A                              |            | 16A                              |            | 40A / 10A  |            |
| 额定电压 Rated voltage        | 400V                             |            | 400V                             |            | 400V                             |            | 500V                             |            | 690V / 250V  |            |
| 线规 Wire gauge             | 0.14-4.0 mm <sup>2</sup>         |            | 0.14-2.5 mm <sup>2</sup>         |            | 0.14-2.5 mm <sup>2</sup>         |            | 0.14-4.0 mm <sup>2</sup>         |            | 1.5-6.0 mm <sup>2</sup> / 0.14-2.5 mm <sup>2</sup> |            |
| 适配外壳 Size                 | H3A                              |            | H3A                              |            | H3A                              |            | H8A                              |            | H8A  |            |
| 公接插针 Male insert (M)      | HQ-005-M                         | 1120053001 | HQ-007-M                         | 1120073001 | HQ-012-M                         | 1120123001 | HQ-008-M                         | 1120083001 | HQ-4/2-M   | 1120063041 |
| 母接插针 Female insert (F)    | HQ-005-F                         | 1120053101 | HQ-007-F                         | 1120073101 | HQ-012-F                         | 1120123101 | HQ-008-F                         | 1120083101 | HQ-4/2-F   | 1120063141 |

## 16A 镀银冷压针 Crimp contacts, silver-plated

### 技术参数 Technical data

材质: 铜镀银

Material: Copper, hard silver

接触电阻 Contact resistance: ≤ 1mΩ

接线形式: 冷压接线

Termination methods: Crimp connection

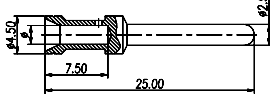
CEM



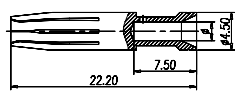
CEF



16A 公插针 Male



16A 母插针 Female



| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度<br>Stripping length | 公接插针 Male insert<br>型号 Type | 公接插针 Male insert<br>订货号 Part No. | 母接插针 Female insert<br>型号 Type | 母接插针 Female insert<br>订货号 Part No. |
|-------------------------------------|--------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------------|
| 0.14-0.37                           | AWG26-22                 | 7.5mm<br>CEM-0.37           | 3330006127                       | CEF-0.37                      | 3330006227                         |
| 0.5                                 | AWG20                    | 7.5mm<br>CEM-0.5            | 3330006121                       | CEF-0.5                       | 3330006221                         |
| 0.75                                | AWG18                    | 7.5mm<br>CEM-0.75           | 3330006114                       | CEF-0.75                      | 3330006214                         |
| 1.0                                 | AWG18                    | 7.5mm<br>CEM-1.0            | 3330006105                       | CEF-1.0                       | 3330006205                         |
| 1.5                                 | AWG16                    | 7.5mm<br>CEM-1.5            | 3330006104                       | CEF-1.5                       | 3330006204                         |
| 2.5                                 | AWG14                    | 7.5mm<br>CEM-2.5            | 3330006102                       | CEF-2.5                       | 3330006202                         |
| 4.0                                 | AWG12                    | 7.5mm<br>CEM-4.0            | 3330006107                       | CEF-4.0                       | 3330006207                         |

## 10A 镀银冷压针 Crimp contacts, silver-plated

### 技术参数 Technical data

材质: 铜镀银 / 金

Material: Copper, hard silver / gold plated

接触电阻 Contact resistance: ≤ 3mΩ

接线形式: 冷压接线

Termination methods: Crimp connection

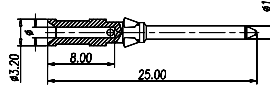
CDM



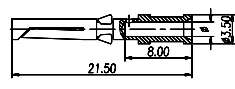
CDF



10A 公插针 Male



10A 母插针 Female



| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度<br>Stripping length | 公接插针 Male insert<br>型号 Type | 公接插针 Male insert<br>订货号 Part No. | 母接插针 Female insert<br>型号 Type | 母接插针 Female insert<br>订货号 Part No. |
|-------------------------------------|--------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------------|
| 0.14-0.37                           | AWG26-22                 | 8.0mm<br>CDM-0.37           | 3150006104                       | CDF-0.37                      | 3150006204                         |
| 0.5                                 | AWG20                    | 8.0mm<br>CDM-0.5            | 3150006103                       | CDF-0.5                       | 3150006203                         |
| 0.75                                | AWG18                    | 8.0mm<br>CDM-0.75           | 3150006105                       | CDF-0.75                      | 3150006205                         |
| 1.0                                 | AWG18                    | 8.0mm<br>CDM-1.0            | 3150006102                       | CDF-1.0                       | 3150006202                         |
| 1.5                                 | AWG16                    | 8.0mm<br>CDM-1.5            | 3150006101                       | CDF-1.5                       | 3150006201                         |
| 2.5                                 | AWG14                    | 8.0mm<br>CDM-2.5            | 3150006106                       | CDF-2.5                       | 3150006206                         |

## 40A 插针 Contacts

### 技术参数 Technical data

材质: 铜镀银 / 金

Material: Copper, hard silver / gold plated

接触电阻 Contact resistance: ≤ 4mΩ

接线形式: 冷压接线

Termination methods: Crimp connection

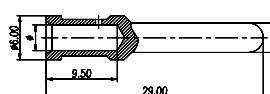
CMM



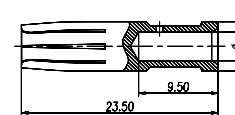
CMF



40A 公插针 Male



40A 母插针 Female



| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type 订货号 Part No. |            |
|-------------------------------------|-------------------------------|---|------------|
| 1.5                                 | AWG16                         | 8.0mm<br>CMM-1.5  | 3320006104 |
| 2.5                                 | AWG14                         | 8.0mm<br>CMM-2.5  | 3320006105 |
| 4.0                                 | AWG12                         | 8.0mm<br>CMM-4.0  | 3320006107 |
| 6.0                                 | AWG10                         | 8.0mm<br>CMM-6.0  | 3320006108 |
| 10.0                                | AWG7                          | 8.0mm<br>CMM-10   | 3320006109 |

| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type 订货号 Part No. |            |
|-------------------------------------|-------------------------------|---|------------|
| 1.5                                 | AWG16                         | 8.0mm<br>CMF-1.5  | 3320006204 |
| 2.5                                 | AWG14                         | 8.0mm<br>CMF-2.5  | 3320006205 |
| 4.0                                 | AWG12                         | 8.0mm<br>CMF-4.0  | 3320006207 |
| 6.0                                 | AWG10                         | 8.0mm<br>CMF-6.0  | 3320006208 |
| 10.0                                | AWG7                          | 8.0mm<br>CMF-10   | 3320006209 |

## 技术参数 Technical characteristics

### 1 插芯 Inserts





|                              |                      |
|------------------------------|----------------------|
| 依据 UL/CSA 额定电压 Rated voltage | 400V / 600V          |
| 绝缘电阻 Insulation resistance   | ≥ 10 <sup>10</sup> Ω |
| 材料 Material                  | 聚碳酸酯 Polycarbonate   |
| 工作温度范围 Limiting temperatures | -40℃ ... +125℃       |
| 依据 UL94 的阻燃等级 Flammability   | V0                   |
| 可拔插次数 Mating cycles          | ≥ 500                |

### 2 插针 Contacts

|  |                       |
|--|-----------------------|
| 材料 Material                            | 铜合金 Copper alloy      |
| 表面处理 Surface                           | 镀银 Hard-silver plated |
|  | 镀金 Hard-gold plated   |
| HQ-005/HQ-008 接触电阻 Contact resistance  | ≤ 1mΩ                 |
| HQ-007/HQ-0012 接触电阻 Contact resistance | ≤ 3mΩ                 |
| HQ-4/2 接触电阻 Contact resistance         | ≤ 0.3mΩ               |



# HQ 接插体 CONNECTOR

| 产品系列 Series               | HQ  |            |   |            | 编码销 Coding element   |            |   |            |
|---------------------------|---|------------|---|------------|--|------------|---|------------|
| 针数 Number of contacts     | 2 + ⊕   |            | 21 + ⊕  |            | 适配 HQ-005、HQ-008   |            | 适配 HQ-012   |            |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  |            |  |            |  |            |
|                           |  |            |  |            | COD-Q5 1330009954  |            | COD-Q12 1120009924  |            |
|                           | M F   |            | M F   |            | 适配 HQ-007  |            | 适配 HQ-002   |            |
| 额定电流 Rated current        | 40A   |            | 5A  |            |  |            |  |            |
| 额定电压 Rated voltage        | 400V  |            | 50V   |            |  |            |   |            |
| 线规 Wire gauge             | 1.5-10.0 mm <sup>2</sup>  |            | 0.08-0.52 mm <sup>2</sup>   |            |  |            |   |            |
| 适配外壳 Size                 | H3A   |            | H3A   |            |  |            |   |            |
| 公接插针 Male insert ( M )    | HQ-002-M  | 1120023001 | HQ-021-M  | 1120213001 | CODQ7-M  | 1120009901 | HQ-DE   | 1120029922 |
| 母接插针 Female insert ( F )  | HQ-002-F  | 1120023101 | HQ-021-F  | 1120213101 | CODQ7-F  | 1120009902 |   |            |

## 插芯技术参数 Technical characteristics

### 1 插芯 Inserts

|                                   |                     |
|-----------------------------------|---------------------|
| 接插件针数 Inserts Number of contacts  | 2+PE                |
| 依据 EN 61984 的电气数据 Electrical data |                     |
| - 额定电流 Rated current              | 40 A                |
| - 额定电压 Rated voltage              | 400 V               |
|                                   | 830 V               |
| - 额定脉冲电压 Rated impulse voltage    | 6 kV                |
| - 污染程度 Pollution degree           | 3                   |
| 依据 UL/CSA 额定电压 Rated voltage      | 600V                |
| 绝缘电阻 Insulation resistance        | ≥10 <sup>10</sup> Ω |
| 材料 Material                       | 聚碳酸酯 Polycarbonate  |
| 工作温度范围 Limiting temperatures      | -40°C ...+125°C     |
| 依据 UL94 的阻燃等级 Flammability        | V0                  |
| 可拔插次数 Mating cycles               | ≥ 500               |

### 2 插针 Contacts

|                            |                       |
|----------------------------|-----------------------|
| 材料 Material                | 铜合金 Copper alloy      |
| 表面处理 Surface               | 镀银 Hard-silver plated |
| 接触电阻 Contact resistance    | ≤ 1mΩ                 |
| 轴向连接 Axial screw terminal  |                       |
| - 导线规格 Wire specifications | 2.5-6 mm <sup>2</sup> |
|                            | 4-10 mm <sup>2</sup>  |
| - AWG                      | 14-8                  |
| - 拧紧力矩 Tightening torque   | 1.8 Nm                |
| 剥线长度 Stripping length      | 8 mm <sup>±1</sup>    |

| 产品系列 Series               | Quintax 电磁屏蔽模块  | Quintax-001   | Quintax-004  | Quintax-008   |               |            |               |            |
|---------------------------|---|---|--|---|---------------|------------|---------------|------------|
| 接线方式 Termination terminal | 适配器, 适配 H3A 外壳  | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                  | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                   | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                    |               |            |               |            |
|                           |  |  |  |  |               |            |               |            |
|                           | M F   | M F   | M F  | M F   |               |            |               |            |
| 额定电流 Rated current        |   | 16A   | 10A  | 5A  |               |            |               |            |
| 额定电压 Rated voltage        |   | 50V   | 50V  | 50V   |               |            |               |            |
| 线规 Wire gauge             |   | 0.14-4.0 mm <sup>2</sup>  | 0.14-2.5 mm <sup>2</sup>   | 0.08-0.52 mm <sup>2</sup>   |               |            |               |            |
| 公接插针 Male insert ( M )    | H3A-001-M   | 5140011001  | Quintax-001-M  | 5150013023  | Quintax-004-M | 5150043023 | Quintax-008-M | 5150083023 |
| 母接插针 Female insert ( F )  | H3A-001-F   | 5140011101  | Quintax-001-F  | 5150013123  | Quintax-004-F | 5150043113 | Quintax-008-F | 5150083113 |

### 尺寸图



# HSB 大电流型接插体 CONNECTORS FOR HIGHER CURRENT

| 产品系列 Series               |           | HSB   |                    |   |                    |
|---------------------------|-----------|---|--------------------|---|--------------------|
| 针数 Number of contacts     |           | 6 + ⊕   |                    | 12 + ⊕  |                    |
| 接线方式 Termination terminal |           | 螺钉压接 Screw terminal   |                    | 螺钉压接 Screw terminal   |                    |
|                           |           |  |                    |  |                    |
|                           |           | M   | F                  | M   | F                  |
| 额定电流 Rated current        |           | 35 A  |                    | 35 A  |                    |
| 额定电压 Rated voltage        |           | 690 V   |                    | 690 V   |                    |
| 线规 Wire gauge             |           | 6.0 mm <sup>2</sup>   |                    | 6.0 mm <sup>2</sup>   |                    |
| 适配外壳 Size                 |           | H16B  |                    | H32B  |                    |
| 公接插针 Male insert ( M )    | HSB-006-M | 1310062601  | HSB-006-M ( 1-6 )  | 1310062601  | HSB-012-M ( 7-12 ) |
|                           |           |   | HSB-012-M ( 7-12 ) | 1310062611  |                    |
| 母接插针 Female insert ( F )  | HSB-006-F | 1310062701  | HSB-006-F ( 1-6 )  | 1310062701  | HSB-012-F ( 7-12 ) |
|                           |           |   | HSB-012-F ( 7-12 ) | 1310062711  |                    |

## 大电流型插芯技术参数 Technical characteristics

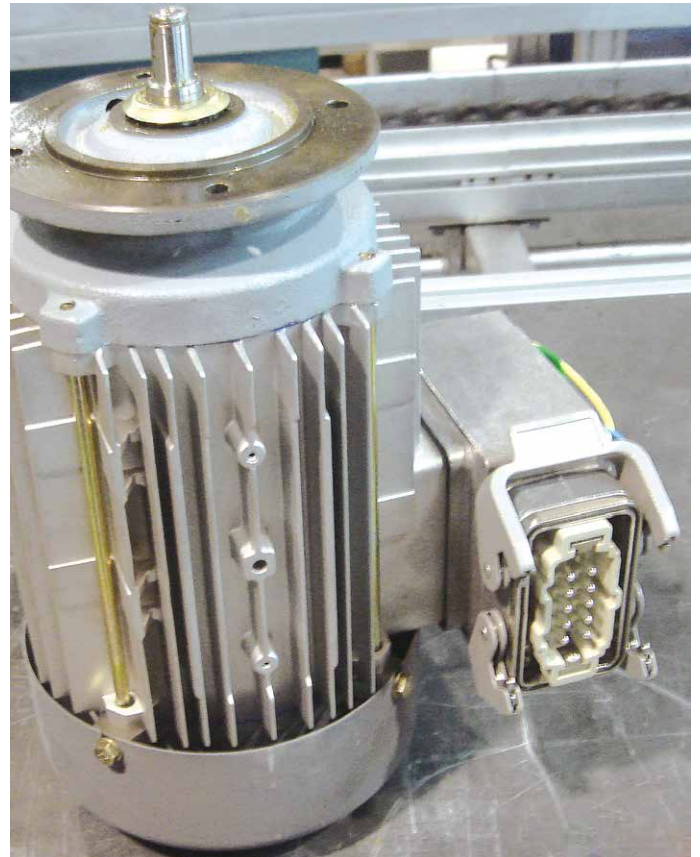
### 1 插芯 Inserts

|  |                     |
|--|---------------------|
| 接插件针数 Inserts Number of contacts           | 6,12+PE             |
| 依据 EN 61984 的电气数据 Electrical data          |                     |
| - 额定电流 Rated current                       | 35A                 |
| - 相对地额定电流 Rated current conductor-ground   | 400V                |
| - 相对额定电压 Rated voltage conductor-conductor | 690V                |
| - 额定脉冲电压 Rated impulse voltage             | 6kV                 |
| - 污染程度 Pollution degree                    | 3                   |
| - 或 Or                                     | 35A 500V 6kV 3      |
| 依据 UL/CSA 额定电压 Rated voltage               | 600V                |
| 绝缘电阻 Insulation resistance                 | ≥10 <sup>10</sup> Ω |
| 材料 Material                                | 聚碳酸酯 Polycarbonate  |
| 工作温度范围 Limiting temperatures               | -40°C ...+125°C     |
| 依据 UL94 的阻燃等级 Flammability                 | V0                  |
| 可拔插次数 Mating cycles                        | ≥ 500               |



### 2 插针 Contacts

|                            |                       |
|----------------------------|-----------------------|
| 材料 Material                | 铜合金 Copper alloy      |
| 表面处理 Surface               | 镀银 Hard-silver plated |
| 接触电阻 Contact resistance    | ≤ 1mΩ                 |
| 冷压连接 Crimp terminal        |                       |
| - 导线规格 Wire specifications | 6.0 mm <sup>2</sup>   |
| - AWG                      | 10                    |
| - 拧紧力矩 Tightening torque   | 1.2Nm                 |



# 组合型大电流接插体 HIGH CURRENT CONNECTORS

| 产品系列 Series               | HSH  |            | HWK  |            |
|---------------------------|--|------------|--|------------|
| 针数 Number of contacts     | 4/2 + ⊕  |            | 6/6 + ⊕                                      |            |
| 接线方式 Termination terminal | 弹片压接 / 快速压接 Quick lock / Cage clamp terminal       |            | 螺钉压接 Screw terminal                          |            |
| 额定电流 Rated current        | 40 A / 16 A  |            | 40 A / 16 A                                  |            |
| 额定电压 Rated voltage        | 690 V / 400 V                                      |            | 690 V / 400 V                                |            |
| 线规 Wire gauge             | 0.5–6.0 mm <sup>2</sup> / 0.14–2.5 mm <sup>2</sup> |            | 4–10 mm <sup>2</sup> / 1–2.5 mm <sup>2</sup> |            |
| 适配外壳 Size                 | H16B   |            | H16B   |            |
| 公接插针 Male insert ( M )    | HSH-4/2-006-M                                      | 1319062601 | HWK-6/6-M                                    | 1380122611 |
| 母接插针 Female insert ( F )  | HSH-4/2-006-F                                      | 1319062701 | HWK-6/6-F                                    | 1380122711 |

## SHH 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                     |
|---------------------------------------|---------------------|
| 接插件针数 Inserts Number of contacts      | 4/2+PE              |
| 依据 DIN EN 61984 的电气数据 Electrical data |                     |
| 电源区 Power area                        |                     |
| - 额定电流 Rated current                  | 40A                 |
| - 额定电压 Rated voltage                  | 400V / 690V         |
| - 额定脉冲电压 Rated impulse voltage        | 6kV                 |
| - 污染程度 Pollution degree               | 3                   |
| 信号区 Signal area                       |                     |
| - 额定电流 Rated current                  | 16A                 |
| - 额定电压 Rated voltage                  | 230V / 400V         |
| - 额定脉冲电压 Rated impulse voltage        | 4kV                 |
| - 污染程度 Pollution degree               | 3                   |
| 依据 UL/CSA 额定电压 Rated voltage          | 600V / 600V         |
| 绝缘电阻 Insulation resistance            | ≥10 <sup>10</sup> Ω |
| 材料 Material                           | 聚碳酸酯 Polycarbonate  |
| 工作温度范围 Limiting temperatures          | -40°C ...+125°C     |
| 阻燃等级 Flammability                     | V0                  |
| 可拔插次数 Mating cycles                   | ≥ 500               |

### 2 插针 Contacts

|                          |  |
|--------------------------|--|
| 材料 Material              | 铜合金 Copper alloy                             |
| 表面处理 Surface             | 镀银 Hard-silver plated                        |
| 接线形式 Termination methods | 弹片连接 Cage-clamp terminal                     |
| 接触电阻 Contact resistance  |  |
| - 电源针 Power contacts     | ≤ 0.3 mΩ                                     |
| - 信号针 Signal contacts    | ≤ 1 mΩ                                       |
| 导线规格                     |  |
| 电源针 Power contacts       |  |
| -mm <sup>2</sup>         | 0.5–6.0 mm <sup>2</sup>                      |
| -AWG                     | 12–8   |
| 信号针 Signal contacts      |  |
| -mm <sup>2</sup>         | 0.14–2.5 mm <sup>2</sup>                     |
| -AWG                     | 18–4   |
| 拧紧力矩 Tightening torque   |  |
| - 电源针 Power contacts     | mm <sup>2</sup> 1.5 2.5 4 6<br>N.m 1.2 2 3 3 |
| - 信号针 Signal contacts    | 0.5 N.m                                      |

## HWK 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                     |
|---------------------------------------|---------------------|
| 接插件针数 Inserts Number of contacts      | 6/6+PE              |
| 依据 DIN EN 61984 的电气数据 Electrical data |                     |
| 电源区 Power area                        |                     |
| - 额定电流 Rated current                  | 40A                 |
| - 额定电压 Rated voltage                  | 400V / 690V         |
| - 额定脉冲电压 Rated impulse voltage        | 6kV                 |
| - 污染程度 Pollution degree               | 3                   |
| 信号区 Signal area                       |                     |
| - 额定电流 Rated current                  | 16A                 |
| - 额定电压 Rated voltage                  | 230V / 400V         |
| - 额定脉冲电压 Rated impulse voltage        | 4kV                 |
| - 污染程度 Pollution degree               | 3                   |
| 依据 UL/CSA 额定电压 Rated voltage          | 600V / 600V         |
| 绝缘电阻 Insulation resistance            | ≥10 <sup>10</sup> Ω |
| 材料 Material                           | 聚碳酸酯 Polycarbonate  |
| 工作温度范围 Limiting temperatures          | -40°C ...+125°C     |
| 阻燃等级 Flammability                     | V0                  |
| 可拔插次数 Mating cycles                   | ≥ 500               |

### 2 插针 Contacts

|                          |  |
|--------------------------|--|
| 材料 Material              | 铜合金 Copper alloy                                       |
| 表面处理 Surface             | 镀银 Hard-silver plated                                  |
| 接线形式 Termination methods | 螺丝连接 Screw terminal                                    |
| 接触电阻 Contact resistance  |  |
| - 电源针 Power contacts     | ≤ 0.3 mΩ   |
| - 信号针 Signal contacts    | ≤ 1 mΩ   |
| 导线规格                     |  |
| 电源针 Power contacts       |  |
| -mm <sup>2</sup>         | 4–10 mm <sup>2</sup>                                   |
| -AWG                     | 12–8   |
| 信号针 Signal contacts      |  |
| -mm <sup>2</sup>         | 1–2.5 mm <sup>2</sup>                                  |
| -AWG                     | 18–4   |
| 拧紧力矩 Tightening torque   |  |
| - 电源针 Power contacts     | mm <sup>2</sup> 1.5 2.5 4 6 10 16<br>N.m 1.2 2 3 3 3 3 |
| - 信号针 Signal contacts    | 0.5 N.m  |

# HK 组合型大电流接插体 HIGH CURRENT CONNECTORS



| 产品系列 Series               | HK                     |            |  |            |  |            |
|---------------------------|------------------------|------------|--|------------|--|------------|
| 针数 Number of contacts     | 4/0 + ⊕                |            | 4/2 + ⊕  |            | 4/8 + ⊕  |            |
| 接线方式 Termination terminal | 螺钉压接 Screw terminal    |            | 螺钉压接 Screw terminal                              |            | 螺钉压接 Screw terminal                              |            |
|                           |                        |            |  |            |  |            |
|                           | M                      | F          | M  | F          | M  | F          |
| 额定电流 Rated current        | 80 A                   |            | 80 A / 16 A                                      |            | 80 A / 16 A                                      |            |
| 额定电压 Rated voltage        | 690 V                  |            | 690 V / 400 V                                    |            | 690 V / 400 V                                    |            |
| 线规 Wire gauge             | 1.5-16 mm <sup>2</sup> |            | 1.5-16 mm <sup>2</sup> / 0.5-2.5 mm <sup>2</sup> |            | 1.5-16 mm <sup>2</sup> / 0.5-2.5 mm <sup>2</sup> |            |
| 适配外壳 Size                 | H16B                   |            | H16B   |            | H24B   |            |
| 公接插针 Male insert ( M )    | HK-4/0-M               | 1380062611 | HK-4/2-M   | 1380062601 | HK-4/8-M   | 1380122601 |
| 母接插针 Female insert ( F )  | HK-4/0-F               | 1380062711 | HK-4/2-F   | 1380062701 | HK-4/8-F   | 1380122701 |

## 组合型插芯技术参数 Technical characteristics

| 1 插芯 Inserts                              |                     | 2 插针 Contacts            |                         |
|---|---------------------|--------------------------|-------------------------|
| 接插件针数 InsertsNumber of contacts           | 4/0,4/2,4/8+PE      | 电源针 Power contacts       |                         |
| 依据 EN 61984 的电气数据 Electrical data         |                     | 材料 Material              | 铜合金 Copper alloy        |
| 电源区 Power area                            |                     | 表面处理 Surface             | 镀银 Hard-silver plated   |
| - 额定电流 Rated current                      | 80A                 | 接触电阻 Contact resistance  | ≤ 0.3 mΩ                |
| - 额定电压 Rated voltage                      | 830V                | 螺钉连接 Screw terminal      |                         |
| - 额定脉冲电压 Rated impulse voltage            | 8kV                 | -mm <sup>2</sup>         | 1.5-16 mm <sup>2</sup>  |
| - 污染程度 Pollution degree                   | 3                   | -AWG                     | 16-6                    |
| - 当污染程度 2 时的参数 Pollution degree 2 also    | 80A 1000V 8kV 2     | - 拧紧力矩 Tightening torque |                         |
| 信号区 Signal area                           |                     | -mm <sup>2</sup>         | 1.5 2.5 4 6 10 16       |
| - 额定电流 Rated current                      | 16A                 | -N.m                     | 1.2 2 3 3 3 3           |
| - 额定电压 Rated voltage                      | 400V                | - 剥线长度 Stripping length  | 14mm                    |
| - 额定脉冲电压 Rated impulse voltage            | 6kV                 | 信号针 Signal contacts      |                         |
| - 污染程度 Pollution degree                   | 3                   | 材料 Material              | 铜合金 Copper alloy        |
| - 当污染程度 2 时的参数 Pollution degree 2 also 依据 | 16A 400V/690V 6kV 2 | 表面处理 Surface             | 镀银 Hard-silver plated   |
| UL/CSA 额定电压 Rated voltage                 | 600V/300V           | 接触电阻 Contact resistance  | ≤ 1 mΩ                  |
| 绝缘电阻 Insulation resistance                | ≥10 <sup>10</sup> Ω | 螺钉连接 Screw terminal      |                         |
| 材料 Material                               | 聚碳酸酯 Polycarbonate  | -mm <sup>2</sup>         | 0.5-2.5 mm <sup>2</sup> |
| 工作温度范围 Limiting temperatures              | -40°C ...+125°C     | -AWG                     | 20-14                   |
| 阻燃等级 Flammability acc. to ( UL94 )        | V0                  | - 拧紧力矩 Tightening torque | 0.5 Nm                  |
| 可接插次数 Mating cycles                       | ≥ 500               | - 剥线长度 Stripping length  | 7.5mm                   |

HK 接插体

| 产品系列 Series               | HTK                         |            |                 |                             |                 |            |
|---------------------------|-----------------------------|------------|-----------------|-----------------------------|-----------------|------------|
| 针数 Number of contacts     | 3/0 + ⊕                     |            |                 | 3/2 + ⊕                     |                 |            |
| 接线方式 Termination terminal | 轴向螺栓压接 Axial screw terminal |            |                 | 轴向螺栓压接 Axial screw terminal |                 |            |
|                           |                             |            |                 |                             |                 |            |
|                           | M                           | F          | M               | F                           | M               | F          |
| 额定电流 Rated current        | 200 A                       |            | 200 A           |                             | 200 A           |            |
| 额定电压 Rated voltage        | 1150 V / 2000 V             |            | 1150 V / 2000 V |                             | 1150 V / 2000 V |            |
| 适配外壳 Size                 | IP68                        |            | IP68            |                             | IP65            |            |
| 公接插针 Male insert ( M )    | HTK-3/0-M                   | 1280032621 | HTK-3/2-M       | 1280052621                  | HTK-3/0-MT      | 1280032611 |
| 母接插针 Female insert ( F )  | HTK-3/0-F                   | 1280032721 | HTK-3/2-F       | 1280052721                  | HTK-3/0-FT      | 1280032711 |

## 技术参数 Technical characteristics

| 1 插芯 Inserts                           |                     | 2 插针 Contacts                      |                          |
|--|---------------------|------------------------------------|--------------------------|
| 接插件针数 InsertsNumber of contacts        | 3/0+PE,3/2+PE       | 材料 Material                        | 铜合金 Copper alloy         |
| 依据 DIN EN 61984 的电气数据 Electrical data  |                     | 表面处理 Surface                       | 镀银 Hard-silver plated    |
| 电源区 Power area                         |                     | 接触电阻 Contact resistance            | ≤ 0.2 mΩ                 |
| - 额定电流 Rated current                   | 200A                | 电纜绞线依据 IEC 60 228-5                |                          |
| - 额定电压 Rated voltage                   | 1150V / 2000V       | 轴向螺栓连接 Axial screw terminal        |                          |
| - 额定脉冲电压 Rated impulse voltage         | 8kV                 | 强电针                                |                          |
| - 污染程度 Pollution degree                | 3                   | - 导线截面                             | 35-70 mm <sup>2</sup>    |
| - 当污染程度 2 时的参数 Pollution degree 2 also | 200A 2000V 12kV 2   | - AWG                              | 2-00                     |
| 信号区 Signal area                        |                     | - 内六角扳手                            | SW5                      |
| - 额定电流 Rated current                   | 16A                 | - 剥线长度                             | 22mm                     |
| - 额定电压 Rated voltage                   | 400V                | - 拧紧力矩                             | mm <sup>2</sup> 35 50 70 |
| - 额定脉冲电压 Rated impulse voltage         | 6kV                 | - N.m                              | 8 9 10                   |
| - 污染程度 Pollution degree                | 3                   | 接地针                                |                          |
| - 当污染程度 2 时的参数 Pollution degree 2 also | 16A 500V 6kV 2      | - 导线截面                             | 16-35 mm <sup>2</sup>    |
| 绝缘电阻 Insulation resistance             | ≥10 <sup>10</sup> Ω | - AWG                              | 5-2                      |
| 材料 Material                            | 聚碳酸酯 Polycarbonate  | - 内六角扳手                            | SW4                      |
| 工作温度范围 Limiting temperatures           | -40°C ...+125°C     | - 剥线长度                             | 14mm                     |
| 依据 UL/CSA 额定电压 Rated voltage           | V0                  | - 拧紧力矩                             | 6 N.m                    |
| 可接插次数 Mating cycles                    | ≥ 500               | 信号针 ( 仅 HK-003/2 ) Signal contacts |                          |
|  |                     | - 横截面                              | 2.5 mm <sup>2</sup>      |
|  |                     | - AWG                              | 14                       |
|  |                     | - 剥线长度                             | 7mm                      |
|  |                     | - 拧紧力矩                             | 0.5 N.m                  |

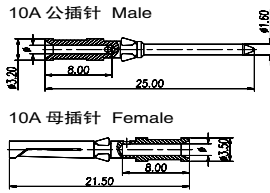
# HK 组合型大电流接插体 HIGH CURRENT CONNECTORS

| 产品系列 Series               | HK   |            |  |            |  |            |
|---------------------------|--|------------|--|------------|--|------------|
| 针数 Number of contacts     | 8/24 + ⊕   |            | 6/36 + ⊕   |            | 12/2 + ⊕   |            |
| 接线方式 Termination terminal | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) |            | 冷压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) |            |
|                           |  |            |  |            |  |            |
| 额定电流 Rated current        | 16A/10A  |            | 40A/10A  |            | 40A/10A  |            |
| 额定电压 Rated voltage        | 400V/160V  |            | 690V/160V  |            | 690V/250V  |            |
| 线规 Wire gauge             | 0.5-4.0 mm <sup>2</sup> / 0.14-2.5 mm <sup>2</sup>               |            | 1.5-6.0 mm <sup>2</sup> / 0.14-2.5 mm <sup>2</sup>               |            | 1.5-6.0 mm <sup>2</sup> / 0.14-2.5 mm <sup>2</sup>               |            |
| 适配外壳 Size                 | H10B   |            | H16B   |            | H16B   |            |
| 公接插针 Male insert ( M )    | HK-8/24-M  | 1380323001 | HK-6/36-M  | 1380423001 | HK-12/2-M  | 1380123001 |
| 母接插针 Female insert ( F )  | HK-8/24-F  | 1380323101 | HK-6/36-F  | 1380423101 | HK-12/2-F  | 1380123101 |

## 10A 镀银冷压针 Crimp contacts, silver-plated

### 技术参数 Technical data

材质: 铜镀银 / 金  
Material: Copper, hard silver / gold plated  
接触电阻 Contact resistance: ≤ 3mΩ  
接线形式: 冷压接线  
Termination methods: Crimp connection

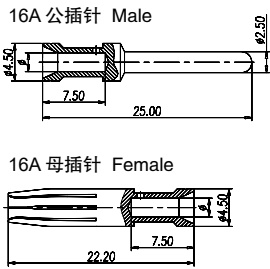


| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度<br>Stripping length | 公接插针 Male insert<br>型号 Type | 公接插针 Male insert<br>订货号 Part No. | 母接插针 Female insert<br>型号 Type | 母接插针 Female insert<br>订货号 Part No. |            |
|-------------------------------------|--------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------------|------------|
| 0.14-0.37                           | AWG26-22                 | 8.0mm                       | CDM-0.37                         | 3150006104                    | CDF-0.37                           | 3150006204 |
| 0.5                                 | AWG20                    | 8.0mm                       | CDM-0.5                          | 3150006103                    | CDF-0.5                            | 3150006203 |
| 0.75                                | AWG18                    | 8.0mm                       | CDM-0.75                         | 3150006105                    | CDF-0.75                           | 3150006205 |
| 1.0                                 | AWG18                    | 8.0mm                       | CDM-1.0                          | 3150006102                    | CDF-1.0                            | 3150006202 |
| 1.5                                 | AWG16                    | 8.0mm                       | CDM-1.5                          | 3150006101                    | CDF-1.5                            | 3150006201 |
| 2.5                                 | AWG14                    | 8.0mm                       | CDM-2.5                          | 3150006106                    | CDF-2.5                            | 3150006206 |

## 16A 镀银冷压针 Crimp contacts, silver-plated

### 技术参数 Technical data

材质: 铜镀银  
Material: Copper, hard silver  
接触电阻 Contact resistance: ≤ 1mΩ  
接线形式: 冷压接线  
Termination methods: Crimp connection

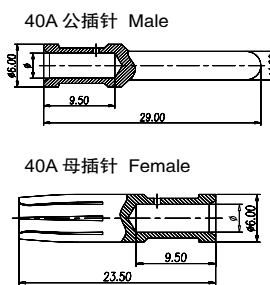


| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度<br>Stripping length | 公接插针 Male insert<br>型号 Type | 公接插针 Male insert<br>订货号 Part No. | 母接插针 Female insert<br>型号 Type | 母接插针 Female insert<br>订货号 Part No. |            |
|-------------------------------------|--------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------------|------------|
| 0.14-0.37                           | AWG26-22                 | 7.5mm                       | CEM-0.37                         | 3330006127                    | CEF-0.37                           | 3330006227 |
| 0.5                                 | AWG20                    | 7.5mm                       | CEM-0.5                          | 3330006121                    | CEF-0.5                            | 3330006221 |
| 0.75                                | AWG18                    | 7.5mm                       | CEM-0.75                         | 3330006114                    | CEF-0.75                           | 3330006214 |
| 1.0                                 | AWG18                    | 7.5mm                       | CEM-1.0                          | 3330006105                    | CEF-1.0                            | 3330006205 |
| 1.5                                 | AWG16                    | 7.5mm                       | CEM-1.5                          | 3330006104                    | CEF-1.5                            | 3330006204 |
| 2.5                                 | AWG14                    | 7.5mm                       | CEM-2.5                          | 3330006102                    | CEF-2.5                            | 3330006202 |
| 4.0                                 | AWG12                    | 7.5mm                       | CEM-4.0                          | 3330006107                    | CEF-4.0                            | 3330006207 |

## 40A 插针 Contacts

### 技术参数 Technical data

材质: 铜镀银 / 金  
Material: Copper, hard silver / gold plated  
接触电阻 Contact resistance: ≤ 4mΩ  
接线形式: 冷压接线  
Termination methods: Crimp connection



| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 镀银冷压针 Crimp contacts, silver-plated<br>订货号 Part No. |            |
|-------------------------------------|-------------------------------|--|---|------------|
| 1.5                                 | AWG16                         | 8.0mm  | CMM-1.5   | 3320006104 |
| 2.5                                 | AWG14                         | 8.0mm  | CMM-2.5   | 3320006105 |
| 4.0                                 | AWG12                         | 8.0mm  | CMM-4.0   | 3320006107 |
| 6.0                                 | AWG10                         | 8.0mm  | CMM-6.0   | 3320006108 |
| 10.0                                | AWG7                          | 8.0mm  | CMM-10  | 3320006109 |

| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 镀银冷压针 Crimp contacts, silver-plated<br>订货号 Part No. |            |
|-------------------------------------|-------------------------------|--|---|------------|
| 1.5                                 | AWG16                         | 8.0mm  | CMF-1.5   | 3320006204 |
| 2.5                                 | AWG14                         | 8.0mm  | CMF-2.5   | 3320006205 |
| 4.0                                 | AWG12                         | 8.0mm  | CMF-4.0   | 3320006207 |
| 6.0                                 | AWG10                         | 8.0mm  | CMF-6.0   | 3320006208 |
| 10.0                                | AWG7                          | 8.0mm  | CMF-10  | 3320006209 |

## 技术参数 Technical characteristics

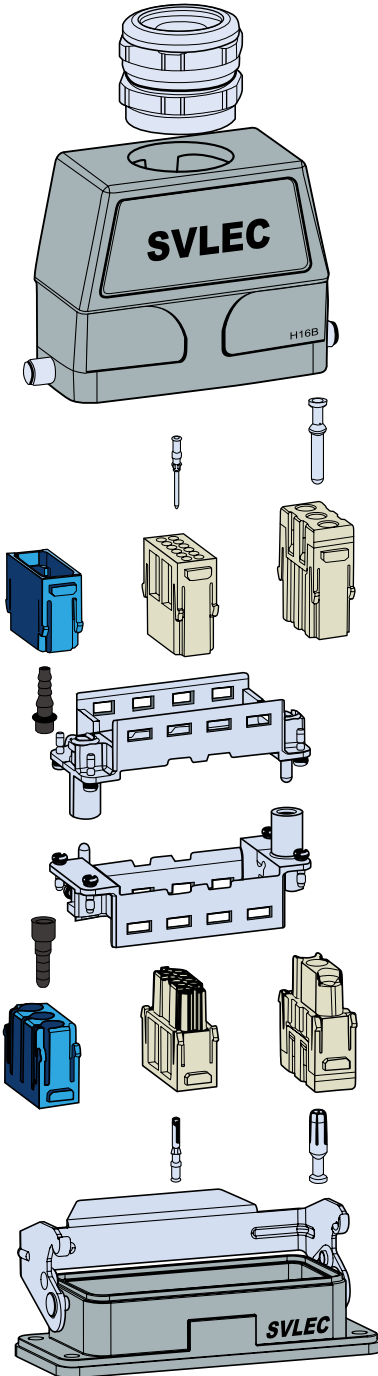
### 1 插芯 Inserts

| 信号区 Signal area                    |                     |
|------------------------------------|---------------------|
| - 额定电流 Rated current               | 10A                 |
| - 额定电压 Rated voltage               | 160V                |
| - 额定脉冲电压 Rated impulse voltage     | 2.5kV               |
| - 污染程度 Pollution degree            | 3                   |
| 依据 UL/CSA 额定电压 Rated voltage       | 600V/300V           |
| 绝缘电阻 Insulation resistance         | ≥10 <sup>10</sup> Ω |
| 材料 Material                        | 聚碳酸酯 Polycarbonate  |
| 工作温度范围 Limiting temperatures       | -40°C ...+125°C     |
| 阻燃等级 Flammability acc. to ( UL94 ) | V0                  |
| 可接插次数 Mating cycles                | ≥ 500               |

### 2 插针 Contacts

| 电源针 Power contacts      |                       |
|-------------------------|-----------------------|
| 材料 Material             | 铜合金 Copper alloy      |
| 表面处理 Surface            | 镀银 Hard-silver plated |
|                         | 镀金 Hard-gold plated   |
| 接触电阻 Contact resistance | ≤ 1 mΩ                |
| 信号针 Signal contacts     |                       |
| 材料 Material             | 铜合金 Copper alloy      |
| 表面处理 Surface            | 镀银 Hard-silver plated |
|                         | 镀金 Hard-gold plated   |
| 接触电阻 Contact resistance | ≤ 3 mΩ                |

组合模块安装示意图  
Assembly details



组合模块产品系列具有一种全新的连接系统，能够满足用户的各种要求。通过与用户的紧密合作开发出一种模块化安装的连接体。它可以根据使用条件，由不同的基本模块组装而成。所以，组合模块是对产品系列保持持续的后继开发，能够将控制电路和功率电路的插针组合在一个连接器中。

兴威联模块产品系列中的单个模块允许客户将动力、光纤和气动信号集成在一起。

气动针则适合于插接液态介质。但需注意，根据 VDE 准则，电气液体不允许组合在同一个连接器中。经实践检验的标准插针和标准外壳可继续使用在该新产品系列中。根据外壳的大小不同，它可以集成一至十二个模块。

装配时，单个的基本模块嵌入在固定框架中，它们在拆卸时也可以单独更换。

Modular units series is a new system of inserts designed to meet the specific requirements of individual customers. In close cooperation with potential users a range of modular inserts have been developed allowing the simple assembly of custom designed complete connectors which meet the diverse requirements encountered by designers today. Modular units is a logical development of the product series which already offers the combination of power and signal circuits in one connector.

The individual modules of this series now allow the integration of electrical, optical and gaseous signal and power connections in one connector assembly.

The pneumatic contacts are also suitable for the connection of liquid media. However it must be stated that a combination of electrical and liquid connections in one connector is not allowed according to VDE regulations.

The individual contacts used in this system are all from existing well proven ranges and it is possible to use combinations of 1 to 12 modules depending on the size of the hoods and housings chosen.

The basic modules snap into a mounting frame and can be exchanged separately at any time.

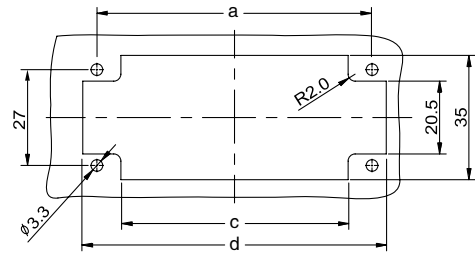
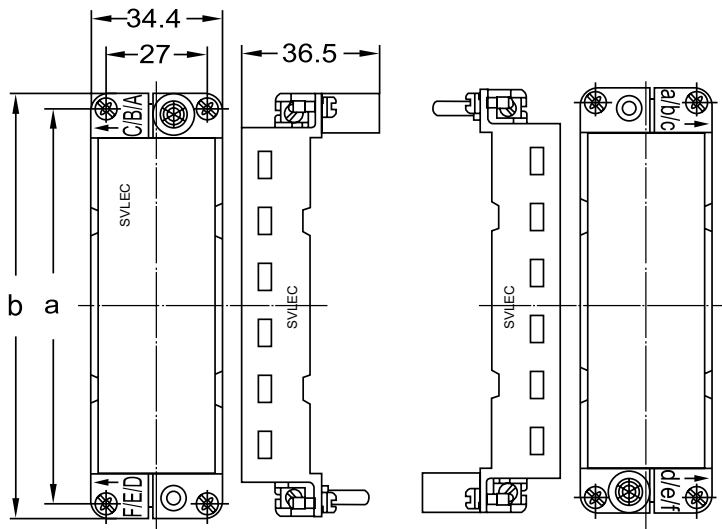
#### 优点 Advantages :

- ◆ 可以根据专门的要求组装连接体 Custom designs can be simply assembled
- ◆ 是当前和将来任务的最佳解决方案 Optimum solutions can be reached
- ◆ 降低库存 Stock can be minimized
- ◆ 安装及拆卸时不需要专用工具 Install and remove without special tools

# HM 框架 MODULAR

| 产品系列 Series              | HM 模块对接架             |            |                     |            |                      |            |
|--------------------------|----------------------|------------|---------------------|------------|----------------------|------------|
| 适配外壳 Size                | H10A 框架, 可安装 1 个标准模块 |            | H6B 框架, 可安装 2 个标准模块 |            | H10B 框架, 可安装 3 个标准模块 |            |
| 公接插针 Male insert ( M )   | H10A-T1              | 5140100323 | H6B-T2-M            | 5140060303 | H10B-T3-M            | 5140100303 |
| 母接插针 Female insert ( F ) |                      |            | H6B-T2-F            | 5140060313 | H10B-T3-F            | 5140100313 |

| 产品系列 Series              | HM 模块对接架             |            |                      |            |
|--------------------------|----------------------|------------|----------------------|------------|
| 适配外壳 Size                | H16B 框架, 可安装 4 个标准模块 |            | H24B 框架, 可安装 6 个标准模块 |            |
| 公接插针 Male insert ( M )   | H16B-T4-M            | 5140160303 | H24B-T6-M            | 5140240303 |
| 母接插针 Female insert ( F ) | H16B-T4-F            | 5140160313 | H24B-T6-F            | 5140240313 |






| 对应外壳 Hood/Housing | 安装模块数 No. of modules | a    | b    | c  | d    |
|-------------------|----------------------|------|------|----|------|
| H10A              | 1                    | 49.5 | 56.5 | 24 | 57.5 |
| H6B               | 2                    | 44   | 51   | 35 | 52   |
| H10B              | 3                    | 57   | 64.1 | 49 | 66   |
| H16B              | 4                    | 77.5 | 84.5 | 64 | 85.5 |
| H24B              | 6                    | 104  | 111  | 94 | 112  |

框架之间最大安装距离 Distance for electric contacts max.21mm  
 对气动接插件最大安装距离 For pneumatic contacts max.20.5mm  
 每套框架由一个上架和一个下架所组成 Eash frame is composed of an upper and a lower bracket

| 名称 Identification        | 规格 Size   | 订货号 Part No. | 比例图 Drawing | 尺寸: 单位 Dimensions in mm  |
|--------------------------|---|--------------|-------------|--|
| 对接架 Docking frame        | H6B-ADK   | 5140060000   |             | 电气针和光纤针最大间距为 27 毫米, 气动针最大距离为 26.5 毫米<br>Distance for electrical and F.O. contacts max. 27 mm ; for pneumatic contacts max. 26.5 mm |
|                          | H10B-ADK  | 5140100000   |             |  |
|                          | H16B-ADK  | 5140160000   |             |  |
|                          | H24B-ADK  | 5140240000   |             |  |
| 供货范围 Range of delivery : | 1 个架子 Frame<br>4 个带肩平头螺栓用于固定对接架<br>4 Cheese head shoulder screws to fix the docking frame |              |             |  |

# HM 模块连接器 MODULAR CONNECTORS



| 产品系列 Series               | HM-001   | HM-001C  | HM-002  | HM-002C  |
|---------------------------|--|--|---|--|
| 接线方式 Termination terminal | 轴向压接 Axial screw terminal  | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                                     | 轴向压接 Axial screw terminal   | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                                       |
| 100/200A                  | <br>M 200A<br>F 1000V | <br>M 200A<br>F 1000V | <br>M 100A<br>F 1000V | <br>M 100A<br>F 1000V |
| 额定电流 Rated current        | 200A   | 200A   | 100A  | 100A   |
| 额定电压 Rated voltage        | 1000V  | 1000V  | 1000V   | 1000V  |
| 线规 Wire gauge             | 25-40 mm <sup>2</sup>  | 25-70mm <sup>2</sup>   | 10-25 mm <sup>2</sup>   | 10-35 mm <sup>2</sup>  |
| 公接插针 Male insert ( M )    | HM-001-MD 5140012663   | HM-001C-M 5140013001   | HM-002-MD 5140022653  | HM-002C-M 5140023051   |
| 母接插针 Female insert ( F )  | HM-001-FD 5140012763   | HM-001C-F 5140013101   | HM-002-FD 5140022753  | HM-002C-F 5140023151   |
| 线规 Wire gauge             | 40-70 mm <sup>2</sup>  |  | 16-35 mm <sup>2</sup>   |  |
| 公接插针 Male insert ( M )    | HM-001-M 5140012662  |  | HM-002-M 5140022651   |  |
| 母接插针 Female insert ( F )  | HM-001-F 5140012762  |  | HM-002-F 5140022751   |  |




| 产品系列 Series               | HM-A02  | HM-A02C   | HM-3/4  | HM-004   |
|---------------------------|---|---|---|--|
| 接线方式 Termination terminal | 轴向压接 Axial screw terminal   | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                                    | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)  | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                                     |
| 40/70A                    | <br>M 70A<br>F 1000V | <br>M 70A<br>F 1000V | <br>M 40A/10A<br>F 830V | <br>M 40A<br>F 830V |
| 额定电流 Rated current        | 70A   | 70A   | 40A/10A   | 40A  |
| 额定电压 Rated voltage        | 1000V   | 1000V   | 830V  | 830V   |
| 线规 Wire gauge             | 6-16 mm <sup>2</sup> / 14-22 mm <sup>2</sup>  | 10-25 mm <sup>2</sup>   | 1.5-6.0 mm <sup>2</sup> / 0.14-2.5 mm <sup>2</sup>  | 1.5-6.0 mm <sup>2</sup>  |
| 公接插针 Male insert ( M )    | 6-16mm <sup>2</sup> HM-A02-MD 5140022646  | HM-A02C-M 5140023041  | HM-3/4-M 5140073001   | HM-004-M 5140043041  |
| 母接插针 Female insert ( F )  | 6-16mm <sup>2</sup> HM-A02-FD 5140022741  | HM-A02C-F 5140023141  | HM-3/4-F 5140073101   | HM-004-F 5140043141  |
| 公接插针 Male insert ( M )    | 14-22mm <sup>2</sup> HM-A02-M 5140022647  |   |   |  |
| 母接插针 Female insert ( F )  | 14-22mm <sup>2</sup> HM-A02-F 5140022742  |   |   |  |



| 产品系列 Series               | HM-S02  | HM-S02C   | HM-S03  | HM-003   |
|---------------------------|---|---|---|--|
| 接线方式 Termination terminal | 轴向压接 Axial screw terminal   | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                                      | 轴向压接 Axial screw terminal   | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                                       |
| 40A                       | <br>M 40A<br>F 1000V | <br>M 40A<br>F 1000V | <br>M 40A<br>F 690V | <br>M 40A<br>F 690V |
| 额定电流 Rated current        | 40A   | 40A   | 40A   | 40A  |
| 额定电压 Rated voltage        | 1000V   | 1000V   | 690V  | 690V   |
| 线规 Wire gauge             | 2.5-10.0 mm <sup>2</sup>  | 1.5-10.0 mm <sup>2</sup>  | 2.5-10.0 mm <sup>2</sup>  | 1.5-10.0 mm <sup>2</sup>   |
| 线规 Wire gauge             | 2.5-8 mm <sup>2</sup>   |   | 2.5-8 mm <sup>2</sup>   |  |
| 公接插针 Male insert ( M )    | HM-S02-MD 5140022601  | HM-S02C-M 5140023002  | HM-S03-MD 5140032601  | HM-003-M 5140033001  |
| 母接插针 Female insert ( F )  | HM-S02-FD 5140022701  | HM-S02C-F 5140023102  | HM-S03-FD 5140032701  | HM-003-F 5140033101  |
| 线规 Wire gauge             | 6-10 mm <sup>2</sup>  |   | 6-10 mm <sup>2</sup>  |  |
| 公接插针 Male insert ( M )    | HM-S02-M 5140022602   |   | HM-S03-M 5140032602   |  |
| 母接插针 Female insert ( F )  | HM-S02-F 5140022702   |   | HM-S03-F 5140032702   |  |

| 产品系列 Series               | HM-020   | HM-F06   | HM-006  | HM-008   |
|---------------------------|--|--|---|--|
| 接线方式 Termination terminal | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                                     | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                                     | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                                      | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)                                       |
| 16A                       | <br>M 16A<br>F 500V | <br>M 16A<br>F 830V | <br>M 16A<br>F 500V | <br>M 16A<br>F 400V |
| 额定电流 Rated current        | 16A  | 16A  | 16A   | 16A  |
| 额定电压 Rated voltage        | 500V   | 830V   | 500V  | 400V   |
| 线规 Wire gauge             | 0.14-4.0 mm <sup>2</sup>   | 0.14-4.0 mm <sup>2</sup>   | 0.14-4.0 mm <sup>2</sup>  | 0.14-4.0 mm <sup>2</sup>   |
| 公接插针 Male insert ( M )    | HM-020-M 5140203001  | HM-F06-M 5140063041  | HM-006-M 5140063001   | HM-008-M 5140083001  |
| 母接插针 Female insert ( F )  | HM-020-F 5140203101  | HM-F06-F 5140063141  | HM-006-F 5140063101   | HM-008-F 5140083101  |



# HM 模块连接器 MODULAR CONNECTORS

| 产品系列 Series               | HM-005  | HM-012  | HM-017   | HM-025   |
|---------------------------|---|---|--|--|
| 接线方式 Termination terminal | 弹片压接<br>Cage clamp terminal   | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)  | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)   | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)   |
| 5A-16A                    | <br>M 16A F<br>额定电流 Rated current: 400V<br>额定电压 Rated voltage: 0.14-2.5 mm <sup>2</sup><br>线规 Wire gauge | <br>M 10A F<br>额定电流 Rated current: 250V<br>额定电压 Rated voltage: 0.14-2.5 mm <sup>2</sup><br>线规 Wire gauge | <br>M 10A F<br>额定电流 Rated current: 160V<br>额定电压 Rated voltage: 0.14-2.5 mm <sup>2</sup><br>线规 Wire gauge | <br>M 5A F<br>额定电流 Rated current: 50V<br>额定电压 Rated voltage: 0.08-0.52 mm <sup>2</sup><br>线规 Wire gauge |
| 公接插针 Male insert ( M )    | HM-005-MS 5140052616  | HM-012-M 5140123001   | HM-017-M 5140173001  | HM-025-M 5140253001  |
| 母接插针 Female insert ( F )  | HM-005-FS 5140052716  | HM-012-F 5140123101   | HM-017-F 5140173101  | HM-025-F 5140253101  |

| 产品系列 Series               | HMSH-006   | HM-USB 2.0   | HM-DM  |
|---------------------------|--|--|--|
| 接线方式 Termination terminal | 快速压接<br>Quick lock   |                  |     |
| RJ45/USB                  | M 16A F<br>额定电流 Rated current: 500V<br>额定电压 Rated voltage: 0.14-2.5 mm <sup>2</sup><br>线规 Wire gauge | M 1A F<br>额定电流 Rated current: 50V<br>额定电压 Rated voltage: 0.14-0.5 mm <sup>2</sup><br>线规 Wire gauge | 堵头 Dummy module<br>用于填充框架上空白模块位<br>To fill up module spaces not in use<br>in the frame |
| 公接插针 Male insert ( M )    | HMSH-006-M 5140063001  | HM-USB-M 5140014601  | HM-DM 5140009950   |
| 母接插针 Female insert ( F )  | HMSH-006-F 5140063101  | HM-USB-F 5140014701  |  |

| 产品系列 Series               | HM-D Sub1   | HM-D Sub2  |
|---------------------------|---|--|
| 接线方式 Termination terminal | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)  | 螺钉压接 Screw terminal<br>(适用于 RS485 接口)  |
| D Sub                     | <br>M 5A F<br>额定电流 Rated current: 50V<br>额定电压 Rated voltage | <br>5A 50V |
| 公接插针 Male insert ( M )    | HM-D Sub1.1-M 5140093001  | HM-D Sub2.1-M 5140093051   |
| 母接插针 Female insert ( F )  | HM-D Sub1.1-F 5140093101  | HM-D Sub2.1-F 5140093151   |

HM-D Sub2.1 接线图

| 信号 | 针位 |
|----|----|
| A  | 8  |
| B  | 3  |

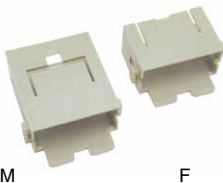







HM-D Sub2.2 接线图

| 信号 | 公针位 | 母针位 |
|----|-----|-----|
| 1  | 7   | 8   |
| 2  | 2   | 4   |
| 3  | 4   | 2   |
| 4  | 8   | 7   |



## 通讯模块连接器

| HM-MB  | HM-CC / CG   | HM-M24  |
|--|--|---|
| 框架适配器 Frame adapter  | 线箱 Cable clamp   | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)  |
| <br>M F | (适配 cat. 5e 芯件) (适配 cat. 6A 芯件)<br> | <br>M F<br>额定电流 Rated current: 5A<br>额定电压 Rated voltage: 50V |
| HM-MB-MI 5140013011  | HM-CC 5-7 5030000141 HM-CG 5-7 5030000142  | 屏蔽金属框含 4x2 接插件 Shielding metal frame  |
| HM-MB-FI 5140013111  | HM-CC 7-10 5030000143 HM-CG 6-11 5030000146  | HM-M24-MH 5140243011  |
|  | HM-CC 10-12 5030000144 HM-CG 10-12 5030000148  | HM-M24 -FH 5140243111   |

| HM-M8  | HM-M8  | HM-RJ45   |
|--|--|---|
| 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)   | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)   | HM-RJ45-M HM-RJ45-F HM-RJ45-4/8PIN  |
| <br>Cat. 5e<br>M F<br>额定电流 Rated current: 5A<br>额定电压 Rated voltage: 50V | <br>Cat. 6a<br>M F<br>额定电流 Rated current: 5A<br>额定电压 Rated voltage: 50V | <br>4 pin Cat. 5e<br>8 pin Cat. 6a<br>额定电流 Rated current: 1A<br>额定电压 Rated voltage: 50V |
| 屏蔽金属框含 4x2 接插件 Shielding metal frame   | 屏蔽金属框含 4x2 接插件 Shielding metal frame   |   |
| HM-M8-MSH 5140083216   | HM-M8-MH 5140083011  | HM-RJ45-M 5140014632 HM-RJ45-4PIN 5454001100  |
| HM-M8-FSH 5140083316   | HM-M8-FH 5140083111  | HM-RJ45-F 5140014721 HM-RJ45-8PIN 5454001520  |

# HM-Q 系列技术参数 SERIES TECHNICAL PARAMETERS

| 产品系列 Series               | HM-Q2  | Quintax-001                 | Quintax-004   | Quintax-008                 |
|---------------------------|--|-----------------------------|---|-----------------------------|
| 接线方式 Termination terminal | 冷压针压接 Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) |                             |   |                             |
| 屏蔽模块                      | <br>M F  |                             | <br>M F   |                             |
|                           | 额定电流 Rated current<br>额定电压 Rated voltage<br>线规 Wire gauge          |                             | 额定电流 Rated current<br>额定电压 Rated voltage<br>线规 Wire gauge |                             |
|                           | 公接插针 Male insert (M)<br>母接插针 Female insert (F)                     |                             | 公接插针 Male insert (M)<br>母接插针 Female insert (F)            |                             |
|                           | HM-Q2-M<br>5140023001  | Quintax-001-M<br>5150013023 | Quintax-004-M<br>5150043023                               | Quintax-008-M<br>5150083023 |
|                           | HM-Q2-F<br>5140023101  | Quintax-001-F<br>5150013123 | Quintax-004-F<br>5150043113                               | Quintax-008-F<br>5150083113 |

## 电磁屏蔽型插芯技术参数 Technical characteristics

### 1 插芯 Inserts

|                                  |                      |
|----------------------------------|----------------------|
| 接插件针数 Inserts/Number of contacts | 2                    |
| 绝缘电阻 Insulation resistance       | $\geq 10^{10}\Omega$ |
| 材料 Material                      | 聚碳酸酯 Polycarbonate   |
| 工作温度范围 Limiting temperatures     | -40°C ... +85°C      |
| 阻燃等级 Flammability acc. to (UL94) | V0                   |
| 可拔插次数 Mating cycles              | $\geq 500$           |

### 2 Quintax 针 Contacts

|  |                         |
|--|-------------------------|
| 针数 Number of contacts                    |                         |
| - E Quintax                              | 1+ 屏蔽 Shielding         |
| - D Quintax                              | 4+ 屏蔽 Shielding         |
| - A Quintax                              | 8+ 屏蔽 Shielding         |
| 依据 EN 61 984 的电气数据 Electrical data       |                         |
| - E 型 Quintax 针                          | 16A 50V 0.8kV 3         |
| - D 型 Quintax 针                          | 10A 50V 0.8kV 3         |
| - A 型 Quintax 针                          | 5A 50V 0.8kV 3          |
| 额定电流 Rated current                       | 16/10/5A                |
| 额定电压 Rated voltage                       | 50V                     |
| 额定脉冲电压 Rated impulse voltage             | 0.8kV                   |
| 污染程度 Pollution degree                    | 3                       |
| 阻抗 Impedance                             |                         |
| - E 型 Quintax 针                          | 50Ω                     |
| - D 型 Quintax 针                          | 75Ω                     |
| 材料 Material                              |                         |
| - 绝缘体 Insulator                          | 聚碳酸酯 Polycarbonate      |
| - 外导体 Outer conductor                    | 锌合金 Zinc alloy          |
| 接触电阻 Contact resistance                  | $\leq 4\text{ m}\Omega$ |
| 工作温度范围 Limiting temperatures             | -40°C ... +85°C         |
| 依据 UL94 的阻燃等级 Flammability acc. to UL 94 | V0                      |
| 外导体表面 Outer surface finish               | 镍 Nickel                |
| 电缆直径 Cable diameter                      | 3-9.5 mm                |

### 3 E 型针 (16A) Contacts

|                         |                         |
|-------------------------|-------------------------|
| 材料 Material             | 铜合金 Copper alloy        |
| 表面处理 Surface            | 镀金 Hard-gold plated     |
| 接触电阻 Contact resistance | $\leq 1\text{ m}\Omega$ |
| 冷压连接 Crimp terminal     |                         |
| -mm <sup>2</sup>        | 0.14-4 mm <sup>2</sup>  |
| -AWG                    | 26-12                   |

### 4 D 型针 (10A) Contacts

|                         |                          |
|-------------------------|--------------------------|
| 材料 Material             | 铜合金 Copper alloy         |
| 表面处理 Surface            | 镀金 Hard-gold plated      |
| 接触电阻 Contact resistance | $\leq 3\text{ m}\Omega$  |
| 冷压连接 Crimp terminal     |                          |
| -mm <sup>2</sup>        | 0.14-2.5 mm <sup>2</sup> |
| -AWG                    | 26-14                    |

### 5 A 型针 (5A) Contacts

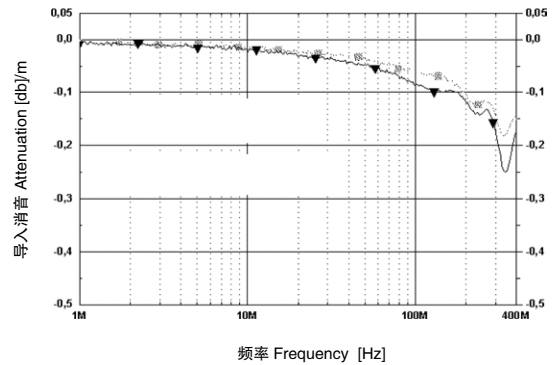
|                         |                           |
|-------------------------|---------------------------|
| 材料 Material             | 铜合金 Copper alloy          |
| 表面处理 Surface            | 镀金 Hard-gold plated       |
| 接触电阻 Contact resistance | $\leq 3\text{ m}\Omega$   |
| 冷压连接 Crimp terminal     |                           |
| -mm <sup>2</sup>        | 0.09-0.52 mm <sup>2</sup> |
| -AWG                    | 28-20                     |

### 特征 Features

- 模块化结构 Modular structure
- 插入外壳不会造成屏蔽中断 Insert the shielding enclosure will not break off
- 屏蔽传导与外壳电势无关  
Shielding conduction has nothing to do with the shell electric potential
- 便于传输极灵敏信号 (总线信号)  
To facilitate transport extremely sensitive signals (bus)

### 传输特性 Transmission characteristics

阻抗 Impedance 75 Ω



- 75Ω 电缆 Cable
- ▲ 75Ω 电缆带 D 型 Quintax 针 Cable with D Quintax
- 75Ω 屏蔽电缆直径 Diameter shielding: 7.3mm

阻抗 Impedance 50 Ω

|   |        |
|---|--------|
| E 型针带 RG 213 电缆 (2.5mm <sup>2</sup> ) E with RG 213 cable | 27 MHz |
| 回波损耗 [db] Rreturn loss                                    | 35.4   |
| 导入消间 [db] Attenuation                                     | 0.017  |

|   |         |         |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|---------|---------|
| E 型针带 RG 213 电缆 (2.5mm <sup>2</sup> ) E with RG 213 cable | 200 MHz | 500 MHz | 1.0 MHz | 1.2 MHz | 1.5 MHz | 2.0 MHz | 2.5 MHz |
| 回波损耗 [db] Rreturn loss                                    | 23.8    | 21.1    | >18.7   | >17.7   | >16.4   | >14.1   | >12.0   |
| 导入消间 [db] Attenuation                                     | 0.07    | 0.11    | 0.17    | 0.2     | <0.23   | <0.53   | <2.0    |

# HM 气动模块 PNEUMATIC MODULAR

| 产品系列 Series            | HM-PA2  |   |                |               | HM-PA3   |  |                |               |            |
|------------------------|---|---|----------------|---------------|--|--|----------------|---------------|------------|
| 适用气嘴                   | 6.0 mm<br>(气嘴请单独订购 Order contacts separately)                                     |   |                |               | 1.6; 3.0; 4.0 mm<br>(气嘴请单独订购 Order contacts separately)                            |  |                |               |            |
| 气动模块 Pneumatic modular | 模块 Module   |   | HM-PA2         | 5140024501    | 模块 Module  |  | HM-PA3         | 5140034501    |            |
|                        | 气嘴 Pneumatic contacts (适用于软管内径 Ø6.0mm)  |   |                |               | 气嘴 Pneumatic contacts (适用于软管内径 Ø1.6-4.0mm)   |  |                |               |            |
|                        | 无锁止 Without shut off (M)  |  | Ø6.0           | PNEU-PA2-6.0M | 5140006174   |  | Ø1.6           | PNEU-PA3-1.6M | 5140006151 |
|                        | 无锁止 Without shut off (F)  |  | Ø6.0           | PNEU-PA2-6.0F | 5140006274   |  | Ø3.0           | PNEU-PA3-3.0F | 5140006252 |
| 带锁止 With shut off      |  | Ø6.0  | PNEU-PA2-6.0FW | 5140006279    |  | Ø4.0   | PNEU-PA3-4.0FW | 5140006258    |            |

## HM-PA 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                  |                    |
|----------------------------------|--------------------|
| 接插件针数 Inserts Number of contacts | 2、3                |
| 材料 Material                      | 聚碳酸酯 Polycarbonate |
| 工作温度范围 Limiting temperatures     | -40°C ...+80°C     |
| 依据 UL94 阻燃等级 Flammability        | V0                 |
| 可拔插次数 Mating cycles              | ≥ 500              |

### 2 插针 Contacts

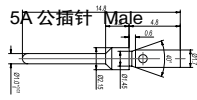
|                             |                          |
|-----------------------------|--------------------------|
| 材料 Material                 | 聚甲醛 Delrin acetal        |
| 颜色 Colour                   | 黑色 Black                 |
| 软管连接 Tube termination       |                          |
| - 内径 Internal diameter (ID) | 6.0mm / 1/4"             |
|                             | 1.6mm / 1/16"            |
|                             | 3.0mm                    |
|                             | 4.0mm / 1/8"             |
| 工作压力 Working pressure       | 最大 up to 8 bar / 116 psi |
| 密封圈 Sealing                 |                          |
| - 材料 Material               | 丁晴橡胶 Buna-N              |
| 闭锁阀 Shut off valve          |                          |
| - 材料 Material               | 聚丙烯 Polypropylen         |

| 产品系列 Series              | HM-PAM2   |   |                 |                | HM-PAM3  |  |                 |                |            |
|--------------------------|---|---|-----------------|----------------|--|--|-----------------|----------------|------------|
| 适用气嘴                     | 6.0 mm<br>(气嘴请单独订购 Order contacts separately)                                       |   |                 |                | 4.0 mm<br>(气嘴请单独订购 Order contacts separately)  |  |                 |                |            |
| 高压气动模块 Pneumatic modular | 模块 Module   |   | HM-PAM2         | 5140023501     | 模块 Module  |  | HM-PAM3         | 5140033501     |            |
|                          | 气嘴 Pneumatic contacts (适用于软管内径 Ø6.0mm)  |   |                 |                | 气嘴 Pneumatic contacts (适用于软管内径 Ø1.6-4.0mm)   |  |                 |                |            |
|                          | 无锁止 Without shut off (M)  |  | Ø6.0            | PNEU-PAM2-6.0M | 5140006306   |  | Ø4.0            | PNEU-PAM3-4.0M | 5140006304 |
|                          | 无锁止 Without shut off (F)  |  | Ø6.0            | PNEU-PAM2-6.0F | 5140006406   |  | Ø4.0            | PNEU-PAM3-4.0F | 5140006404 |
| 带锁止 With shut off        |  | Ø6.0  | PNEU-PAM2-6.0FW | 5140006416     |  | Ø4.0   | PNEU-PAM3-4.0FW | 5140006414     |            |

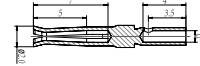
# 插针 CONTACTS

## 5A 插针 Contacts

技术参数 Technical data  
 材质: 铜镀银 / 金  
 Material: Copper, hard silver / gold plated  
 接触电阻 Contact resistance:  $\leq 4m\Omega$   
 接线形式: 冷压接线  
 Termination methods: Crimp connection



5A 母插针 Female



| 线径 (mm <sup>2</sup> )<br>Wire gauge | AWG   | 接线长度<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. | 镀金冷压针 Crimp contacts, gold-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|-------|--------------------------|--|--------------|--|--------------|
| 0.13-0.33mm <sup>2</sup>            | 26-22 | 5.0mm                    | CAM-13   | 3670005566   | DAM-13                                       | 3670005576   |
| 0.33-0.52mm <sup>2</sup>            | 22-20 | 5.0mm                    | CAM-33   | 3670008566   | DAM-33                                       | 3670008576   |

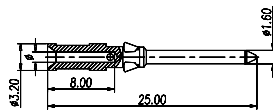
| 线径 (mm <sup>2</sup> )<br>Wire gauge | AWG   | 接线长度<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. | 镀金冷压针 Crimp contacts, gold-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|-------|--------------------------|--|--------------|--|--------------|
| 0.13-0.33mm <sup>2</sup>            | 26-22 | 5.0mm                    | CAF-13   | 3670005466   | DAF-13                                       | 3670005476   |
| 0.33-0.52mm <sup>2</sup>            | 22-20 | 5.0mm                    | CAF-33   | 3670008466   | DAF-33                                       | 3670008476   |

## 10A 插针 Contacts

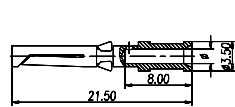
技术参数 Technical data  
 材质: 铜镀银 / 金  
 Material: Copper, hard silver / gold plated  
 接触电阻 Contact resistance:  $\leq 3m\Omega$   
 接线形式: 冷压接线  
 Termination methods: Crimp connection



10A 公插针 Male



10A 母插针 Female

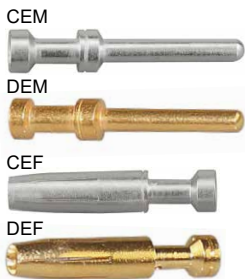


| 线径 (mm <sup>2</sup> )<br>Wire gauge | AWG      | 接线长度<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. | 镀金冷压针 Crimp contacts, gold-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|----------|--------------------------|--|--------------|--|--------------|
| 0.14-0.37                           | AWG26-22 | 8.0mm                    | CDM-0.37                                       | 3150006103   | DDM-0.37                                     | 3150006124   |
| 0.5                                 | AWG20    | 8.0mm                    | CDM-0.5  | 3150006104   | DDM-0.5                                      | 3150006123   |
| 0.75                                | AWG18    | 8.0mm                    | CDM-0.75                                       | 3150006105   | DDM-0.75                                     | 3150006125   |
| 1.0                                 | AWG18    | 8.0mm                    | CDM-1.0  | 3150006102   | DDM-1.0                                      | 3150006122   |
| 1.5                                 | AWG16    | 8.0mm                    | CDM-1.5  | 3150006101   | DDM-1.5                                      | 3150006121   |
| 2.5                                 | AWG14    | 8.0mm                    | CDM-2.5  | 3150006106   | DDM-2.5                                      | 3150006126   |

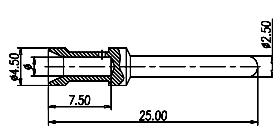
| 线径 (mm <sup>2</sup> )<br>Wire gauge | AWG      | 接线长度<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. | 镀金冷压针 Crimp contacts, gold-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|----------|--------------------------|--|--------------|--|--------------|
| 0.14-0.37                           | AWG26-22 | 8.0mm                    | CDF-0.37                                       | 3150006204   | DDF-0.37                                     | 3150006224   |
| 0.5                                 | AWG20    | 8.0mm                    | CDF-0.5  | 3150006203   | DDF-0.5                                      | 3150006223   |
| 0.75                                | AWG18    | 8.0mm                    | CDF-0.75                                       | 3150006205   | DDF-0.75                                     | 3150006225   |
| 1.0                                 | AWG18    | 8.0mm                    | CDF-1.0  | 3150006202   | DDF-1.0                                      | 3150006222   |
| 1.5                                 | AWG16    | 8.0mm                    | CDF-1.5  | 3150006201   | DDF-1.5                                      | 3150006221   |
| 2.5                                 | AWG14    | 8.0mm                    | CDF-2.5  | 3150006206   | DDF-2.5                                      | 3150006226   |

## 16A 插针 Contacts

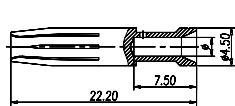
技术参数 Technical data  
 材质: 铜镀银 / 金  
 Material: Copper, hard silver / gold plated  
 接触电阻 Contact resistance:  $\leq 1m\Omega$   
 接线形式: 冷压接线  
 Termination methods: Crimp connection



16A 公插针 Male



16A 母插针 Female



| 线径 (mm <sup>2</sup> )<br>Wire gauge | AWG      | 接线长度<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. | 镀金冷压针 Crimp contacts, gold-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|----------|--------------------------|--|--------------|--|--------------|
| 0.14-0.37                           | AWG26-22 | 7.5mm                    | CEM-0.37                                       | 3330006127   | DEM-0.37                                     | 3330006117   |
| 0.5                                 | AWG20    | 7.5mm                    | CEM-0.5  | 3330006121   | DEM-0.5                                      | 3330006122   |
| 0.75                                | AWG18    | 7.5mm                    | CEM-0.75                                       | 3330006114   | DEM-0.75                                     | 3330006115   |
| 1.0                                 | AWG18    | 7.5mm                    | CEM-1.0  | 3330006105   | DEM-1.0                                      | 3330006118   |
| 1.5                                 | AWG16    | 7.5mm                    | CEM-1.5  | 3330006104   | DEM-1.5                                      | 3330006116   |
| 2.5                                 | AWG14    | 7.5mm                    | CEM-2.5  | 3330006102   | DEM-2.5                                      | 3330006123   |
| 4.0                                 | AWG12    | 7.5mm                    | CEM-4.0  | 3330006107   | DEM-4.0                                      | 3330006119   |

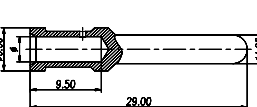
| 线径 (mm <sup>2</sup> )<br>Wire gauge | AWG      | 接线长度<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. | 镀金冷压针 Crimp contacts, gold-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|----------|--------------------------|--|--------------|--|--------------|
| 0.14-0.37                           | AWG26-22 | 7.5mm                    | CEF-0.37                                       | 3330006227   | DEF-0.37                                     | 3330006217   |
| 0.5                                 | AWG20    | 7.5mm                    | CEF-0.5  | 3330006221   | DEF-0.5                                      | 3330006222   |
| 0.75                                | AWG18    | 7.5mm                    | CEF-0.75                                       | 3330006214   | DEF-0.75                                     | 3330006215   |
| 1.0                                 | AWG18    | 7.5mm                    | CEF-1.0  | 3330006205   | DEF-1.0                                      | 3330006218   |
| 1.5                                 | AWG16    | 7.5mm                    | CEF-1.5  | 3330006204   | DEF-1.5                                      | 3330006216   |
| 2.5                                 | AWG14    | 7.5mm                    | CEF-2.5  | 3330006202   | DEF-2.5                                      | 3330006223   |
| 4.0                                 | AWG12    | 7.5mm                    | CEF-4.0  | 3330006207   | DEF-4.0                                      | 3330006219   |

## 40A 插针 Contacts

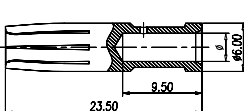
技术参数 Technical data  
 材质: 铜镀银 / 金  
 Material: Copper, hard silver / gold plated  
 接触电阻 Contact resistance:  $\leq 4m\Omega$   
 接线形式: 冷压接线  
 Termination methods: Crimp connection



40A 公插针 Male



40A 母插针 Female



| 线径 (mm <sup>2</sup> )<br>Wire gauge | AWG   | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|-------|-------------------------------|--|--------------|
| 1.5                                 | AWG16 | 8.0mm                         | CMM-1.5  | 3320006104   |
| 2.5                                 | AWG14 | 8.0mm                         | CMM-2.5  | 3320006105   |
| 4.0                                 | AWG12 | 8.0mm                         | CMM-4.0  | 3320006107   |
| 6.0                                 | AWG10 | 8.0mm                         | CMM-6.0  | 3320006108   |
| 10.0                                | AWG7  | 8.0mm                         | CMM-10   | 3320006109   |

| 线径 (mm <sup>2</sup> )<br>Wire gauge | AWG   | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|-------|-------------------------------|--|--------------|
| 1.5                                 | AWG16 | 8.0mm                         | CMF-1.5  | 3320006204   |
| 2.5                                 | AWG14 | 8.0mm                         | CMF-2.5  | 3320006205   |
| 4.0                                 | AWG12 | 8.0mm                         | CMF-4.0  | 3320006207   |
| 6.0                                 | AWG10 | 8.0mm                         | CMF-6.0  | 3320006208   |
| 10.0                                | AWG7  | 8.0mm                         | CMF-10   | 3320006209   |

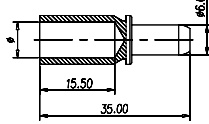
# 插针 CONTACTS

## 70A 插针 Contacts

### 技术参数 Technical data

材质: 铜镀银 / 金  
Material: Copper, hard silver / gold plated  
接触电阻 Contact resistance:  $\leq 1\text{ m}\Omega$   
接线形式: 冷压接线  
Termination methods: Crimp connection

70A 公插针 Male



| 线径 (mm <sup>2</sup> )<br>Wire gauge | Ø   | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|-----|-------------------------------|--|--------------|
| 10                                  | 4.3 | 15.5                          | CKM-10   | 3110006131   |
| 16                                  | 5.5 | 15.5                          | CKM-16   | 3110006132   |
| 25                                  | 7.0 | 15.5                          | CKM-25   | 3110006133   |

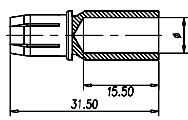
CKM



CKF



70A 母插针 Female



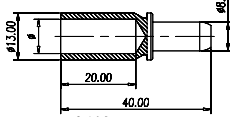
| 线径 (mm <sup>2</sup> )<br>Wire gauge | Ø   | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|-----|-------------------------------|--|--------------|
| 10                                  | 4.3 | 15.5                          | CKF-10   | 3110006231   |
| 16                                  | 5.5 | 15.5                          | CKF-16   | 3110006232   |
| 25                                  | 7.0 | 15.5                          | CKF-25   | 3110006233   |

## 100A 插针 Contacts

### 技术参数 Technical data

材质: 铜镀银 / 金  
Material: Copper, hard silver / gold plated  
接触电阻 Contact resistance:  $\leq 1\text{ m}\Omega$   
接线形式: 冷压接线  
Termination methods: Crimp connection  
CNM

100A 公插针 Male



| 线径 (mm <sup>2</sup> )<br>Wire gauge | Ø   | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|-----|-------------------------------|--|--------------|
| 10                                  | 4.3 | 19                            | CNM-10   | 3110006114   |
| 16                                  | 5.5 | 19                            | CNM-16   | 3110006116   |
| 25                                  | 7   | 19                            | CNM-25   | 3110006125   |
| 35                                  | 8.2 | 19                            | CNM-35   | 3110006135   |

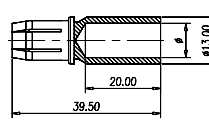
CNF



CNF



100A 母插针 Female



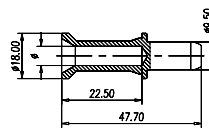
| 线径 (mm <sup>2</sup> )<br>Wire gauge | Ø   | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|-----|-------------------------------|--|--------------|
| 10                                  | 4.3 | 19                            | CNF-10   | 3110006214   |
| 16                                  | 5.5 | 19                            | CNF-16   | 3110006216   |
| 25                                  | 7   | 19                            | CNF-25   | 3110006225   |
| 35                                  | 8.2 | 19                            | CNF-35   | 3110006235   |

## 200A 插针 Contacts

### 技术参数 Technical data

材质: 铜镀银 / 金  
Material: Copper, hard silver / gold plated  
接触电阻 Contact resistance:  $\leq 1\text{ m}\Omega$   
接线形式: 冷压接线  
Termination methods: Crimp connection  
CHM

200A 公插针 Male



| 线径 (mm <sup>2</sup> )<br>Wire gauge | Ø    | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|------|-------------------------------|--|--------------|
| 25                                  | 7    | 22.5                          | CHM-25   | 3110006120   |
| 35                                  | 8.2  | 22.5                          | CHM-35   | 3110006121   |
| 50                                  | 10   | 22.5                          | CHM-50   | 3110006122   |
| 70                                  | 11.5 | 22.5                          | CHM-70   | 3110006123   |

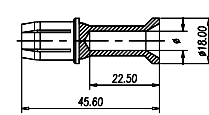
CHF



CHF



200A 母插针 Female



| 线径 (mm <sup>2</sup> )<br>Wire gauge | Ø    | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated<br>型号 Type | 订货号 Part No. |
|-------------------------------------|------|-------------------------------|--|--------------|
| 25                                  | 7    | 22.5                          | CHF-25   | 3110006220   |
| 35                                  | 8.2  | 22.5                          | CHF-35   | 3110006221   |
| 50                                  | 10   | 22.5                          | CHF-50   | 3110006222   |
| 70                                  | 11.5 | 22.5                          | CHF-70   | 3110006223   |

## HM 技术参数 Technical characteristics

### 1 插芯 Inserts

|                              |                      |
|------------------------------|----------------------|
| 绝缘电阻 Insulation resistance   | $\geq 10^{10}\Omega$ |
| 材料 Material                  | 聚碳酸酯 Polycarbonate   |
| 工作温度范围 Limiting temperatures | -40°C ...+125°C      |
| 依据 UL94 阻燃等级 Flammability    | V0                   |
| 可拔插次数 Mating cycles          | $\geq 500$           |

### 2 插针 Contacts

|                                    |                           |
|------------------------------------|---------------------------|
| 材料 Material                        | 铜合金 Copper alloy          |
| 表面处理 Surface                       | 镀银 Hard-silver plated     |
| 接触电阻 Contact resistance            |                           |
| HM-001、HM-002、HM-003、HM-3/4、HM-004 | $\leq 0.3\text{ m}\Omega$ |
| HM-006、HM-008、HM-020               | $\leq 1\text{ m}\Omega$   |
| HM-012、HM-017、HM-025、HM-D Sub      | $\leq 3\text{ m}\Omega$   |

|  |  |
|--|--|
| <p>压线钳 Crimping tool<br/>线规 Wire gage: 0.5-4.0mm<sup>2</sup><br/>用于 For HD/HDD/HEE/HK/HM 接插件 Inserts</p>   <p>钳口月牙形<br/>Jaw crescent</p> <p>钳口六边形<br/>Jaw hexagonal</p>  <p>可根据需求选购钳口形状<br/>According to the demand of choose and buy jaw shape</p> <p>订货号 Part No. 600001001</p> | <p>压线钳 Crimping tool ( 钳口六边形 Jaw hexagonal )<br/>线规 Wire gage: 6.0-10.0mm<sup>2</sup><br/>用于 For HD/HDD/HEE/HK/HM 接插件 Inserts</p>   <p>订货号 Part No. 600001002</p> |
|--|--|

|  |  |
|--|--|
| <p>压线钳 Crimping tool<br/>用于 For D-Sub 针系列 Crimp contacts series<br/>用于 For 5A 接插件 Inserts</p>  <p>订货号 Part No. 999991</p> |  |
|--|--|

|  |  |   |
|--|--|---|
| <p>退针器 Removal tool<br/>用于 For HEE 系列 Series</p>  <p>订货号 Part No. 600002001</p> | <p>退针器 Removal tool<br/>用于 For HEEE 系列 Series</p>  <p>订货号 Part No. 600002002</p> | <p>退针器 Removal tool<br/>用于 For CMM/CMF 系列 Series</p>  <p>订货号 Part No. 600002003</p> |
|--|--|---|

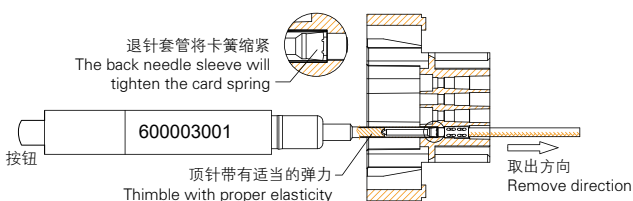
|  |   |   |
|--|---|---|
| <p>退针器 Removal tool<br/>用于 For D-Sub 针系列 Crimp contacts series<br/>用于 For 5A 接插件 Inserts</p>  <p>订货号 Part No. 600002004</p> | <p>退针器 Removal tool<br/>用于 For D-Sub 针系列 Crimp contacts series<br/>用于 For 5A 接插件 Inserts<br/>经济型</p>  <p>订货号 Part No. 600002004T</p> | <p>退针器 Removal tool<br/>用于 For HD/HDD 系列 Series</p>  <p>订货号 Part No. 600003001</p> |
|--|---|---|

## 退针示意图 Needle withdrawal diagram

**D**

将 REMOVE-HD 退针器插入底部，将针上卡簧缩紧，按退针器尾部按钮，自然弹出插针。

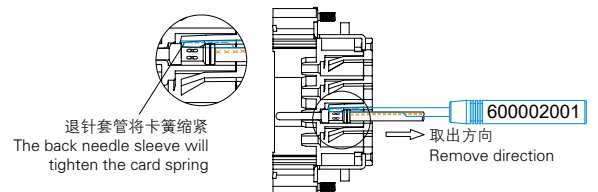
Insert the REMOVE-D needle remover into the bottom, tighten the clip spring on the needle, press the button at the tail of the needle remover, and the needle will pop out naturally.



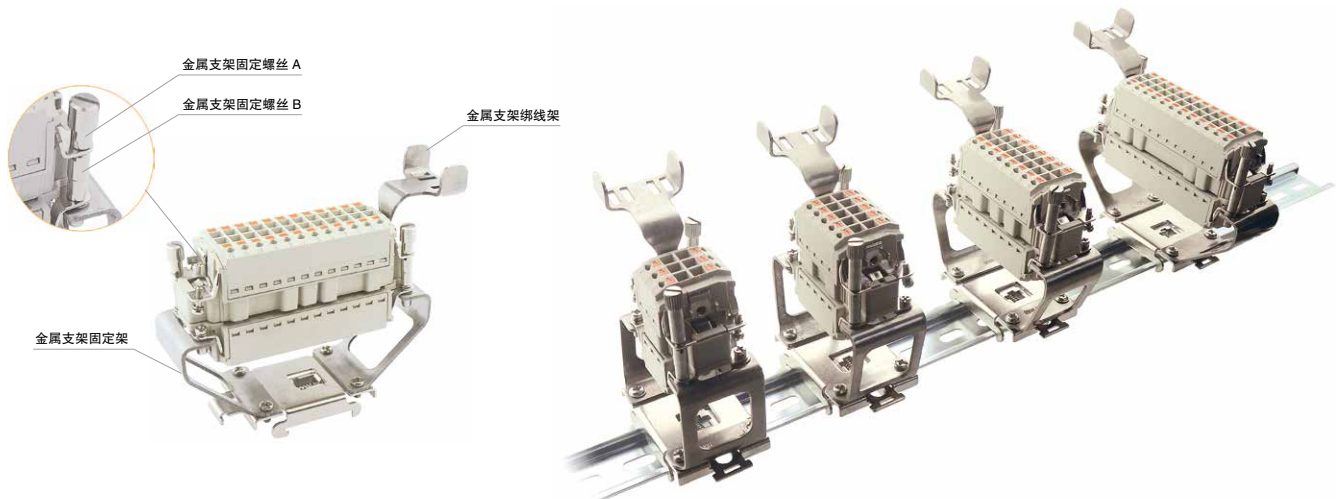
**E**

将 REMOVE-HEE 退针器插入底部，将塑料上盖板的塑料卡簧撑开，拔出插针。

Insert the REMOVE-HEE needle ejector into the bottom, unclamp the plastic spring of the plastic upper cover, and pull out the pin.



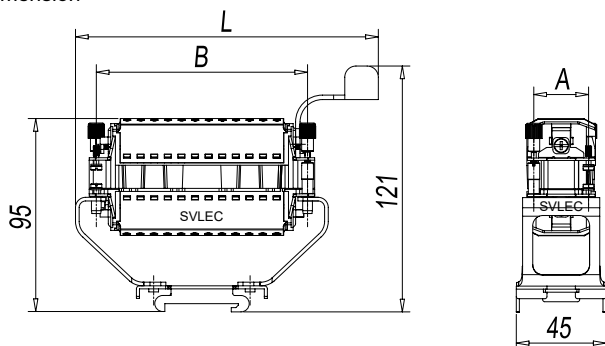
# 芯件导轨安装金属支架 INSERT RAIL MOUNTING ELEMENT



| 不含芯子           | 型号 Type    | 订货号 Part No. |
|----------------|------------|--------------|
| 柜内导轨安装金属支架 6B  | SNAP-6B-S  | 2330000006   |
| 柜内导轨安装金属支架 10B | SNAP-10B-S | 2330000010   |
| 柜内导轨安装金属支架 16B | SNAP-16B-S | 2330000016   |
| 柜内导轨安装金属支架 24B | SNAP-24B-S | 2330000024   |

| 系列                                | 型号 Type          | 订货号 Part No. | 型号 Type           | 订货号 Part No. | 型号 Type           | 订货号 Part No. | 型号 Type           | 订货号 Part No. |
|-----------------------------------|------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|
| HE<br>16A 500V<br>6、10、16、24 芯    | SNAP-HE-006-6B   | 2330000606   | SNAP-HE-010-10B   | 2330001010   | SNAP-HE-016-16B   | 2330001616   | SNAP-HE-024-24B   | 2330002424   |
| HESH<br>16A 500V<br>6、10、16、24 芯  | SNAP-HESH-006-6B | 2330010606   | SNAP-HESH-010-10B | 2330011010   | SNAP-HESH-016-16B | 2330011616   | SNAP-HESH-024-24B | 2330012424   |
| HEC<br>16A 500V<br>6、10、16、24 芯   | SNAP-HEC-006-6B  | 2330020606   | SNAP-HEC-010-10B  | 2330021010   | SNAP-HEC-016-16B  | 2330021616   | SNAP-HEC-024-24B  | 2330022424   |
| HEE<br>16A 500V<br>10、18、32、46 芯  | SNAP-HEE-010-6B  | 2320001006   | SNAP-HEE-018-10B  | 2320001810   | SNAP-HEE-032-16B  | 2320003216   | SNAP-HEE-046-24B  | 2320004624   |
| HEEE<br>16A 400V<br>64、72 芯       | /                | /            | /                 | /            | SNAP-HEEE-064-16B | 2320006416   | SNAP-HEEE-072-24B | 2320007224   |
| HD<br>10A 250V<br>40、64 芯         | /                | /            | /                 | /            | SNAP-HD-040-16B   | 2210004016   | SNAP-HD-064-24B   | 2210006424   |
| HDD<br>10A 250V<br>24、42、72、108 芯 | SNAP-HDD-024-6B  | 2160002406   | SNAP-HDD-042-10B  | 2160004210   | SNAP-HDD-072-16B  | 2160007216   | SNAP-HDD-108-24B  | 2160010824   |
| HSB<br>35A 690V<br>6 芯            | /                | /            | /                 | /            | SNAP-HSB-006-16B  | 2310000616   | /                 | /            |

尺寸图 Dimension

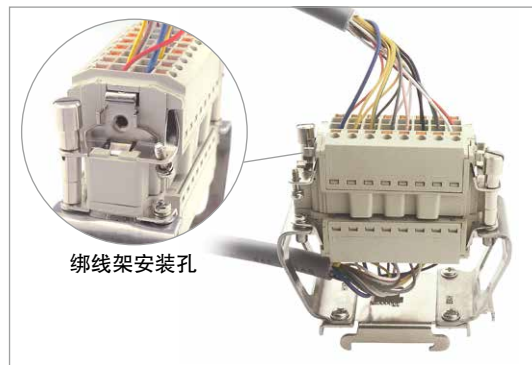


| 支架型号       | L (mm) | A (mm) | B (mm) |
|------------|--------|--------|--------|
| SNAP-6B-S  | 89     | 27     | 44     |
| SNAP-10B-S | 102    | 27     | 57     |
| SNAP-16B-S | 122    | 27     | 77.5   |
| SNAP-24B-S | 149    | 27     | 104    |

## 金属导轨安装支架步骤



1: 导轨支架



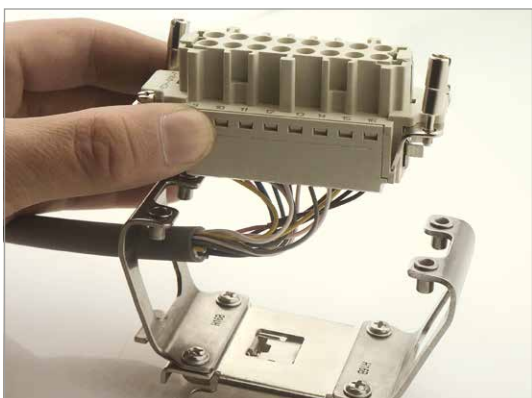
5: 插入公插。



2: 穿线



6: 安装绑线架



3: 母接插件装相应线束



7: 卡入导轨



4: 装入导轨支架，锁紧螺丝。



8: 完成安装



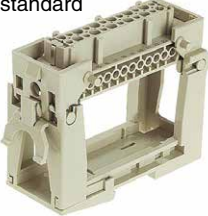


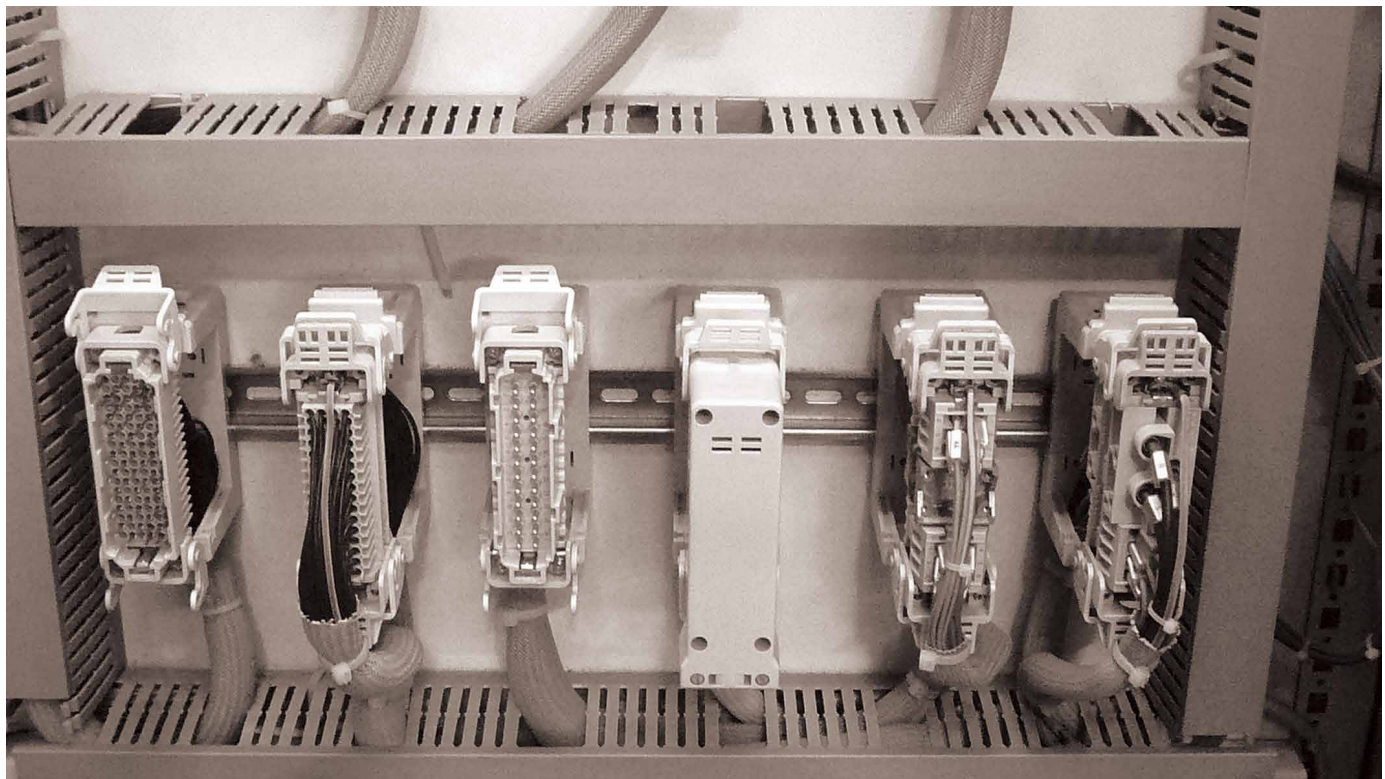
# 芯件导轨安装支架 INSERT RAIL MOUNTING ELEMENT



导轨安装支架套件 Insert mounting with carrier element

套件包括：导轨安装底座及上部固定架 Set include: Top and base frame

|  | 型号 Type       | 订货号 Part No. |  | 型号 Type  | 订货号 Part No. |
|--|---------------|--------------|--|----------|--------------|
| <b>上 Top</b><br><br>内部接插件需单独订购<br>Internal connectors should be ordered separately                  | SPSB-TOP-6B   | 2330009927   | <br>内部接插件需单独订购<br>Internal connectors should be ordered separately | SNAP-6B  | 2330009991   |
|  | SPSB-TOP-10B  | 2330009947   |  | SNAP-10B | 2330009993   |
|  | SPSB-TOP-16B  | 2330009967   |  | SNAP-16B | 2330009995   |
|  | SPSB-TOP-24B  | 2330009987   |  | SNAP-24B | 2330009997   |
| <b>下 Base</b><br>标准 standard<br><br>内部接插件需单独订购<br>Internal connectors should be ordered separately | SPSB-BASE-6B  | 2330009806   |  |          |              |
|  | SPSB-BASE-10B | 2330009810   |  |          |              |
|  | SPSB-BASE-16B | 2330009816   |  |          |              |
|  | SPSB-BASE-24B | 2330009824   |  |          |              |



导轨支架