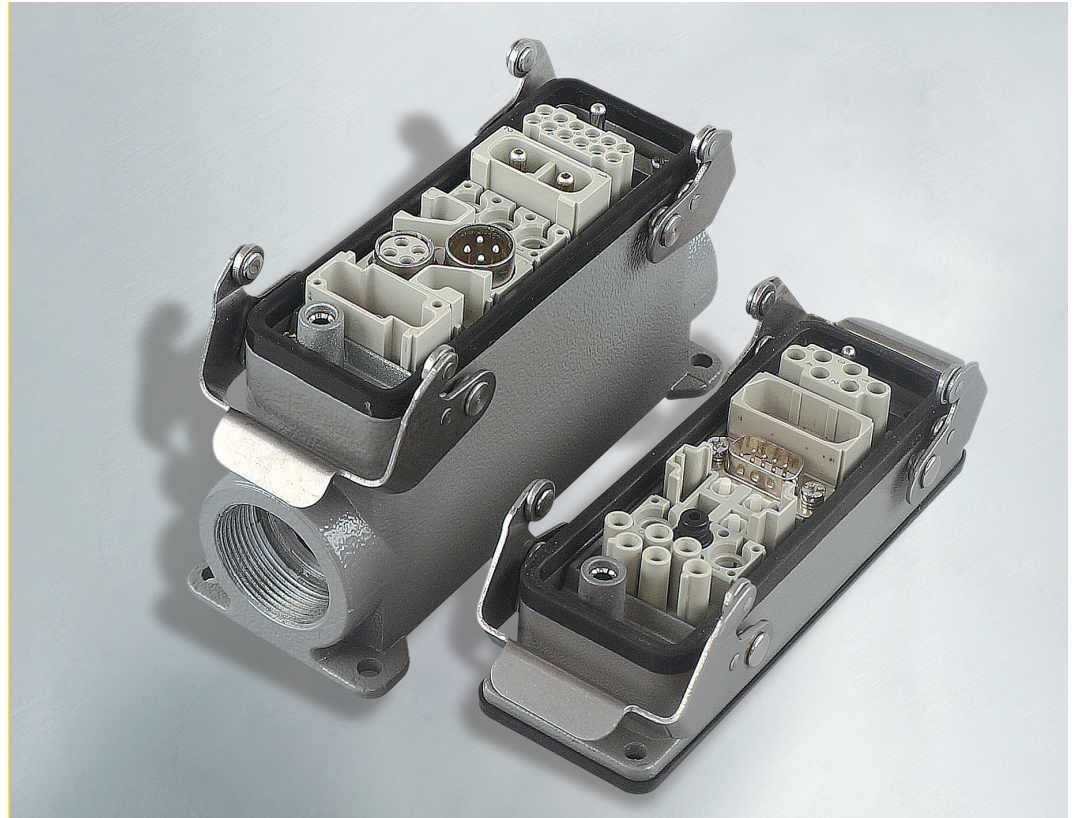


组合模块安装示意图  
 Assembly details



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.


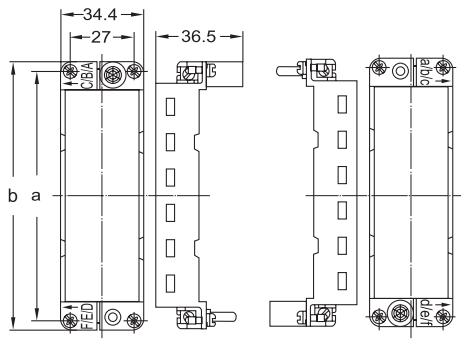

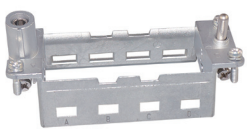
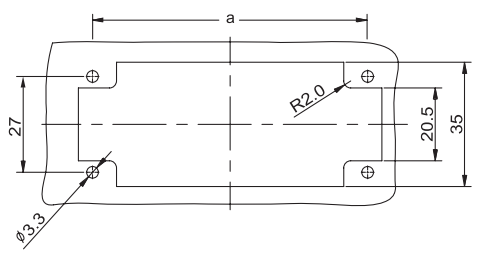
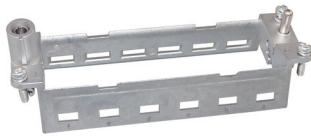
The individual contacts used in this system are all from existing well proven ranges and it is possible to use combinations of 1 to 12 modules depending on the size of the hoods and housings chosen.

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

#### 优点 Advantages :



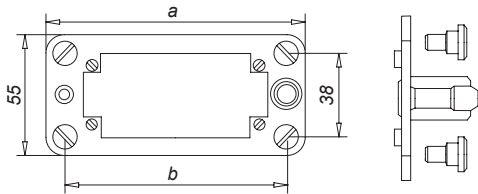
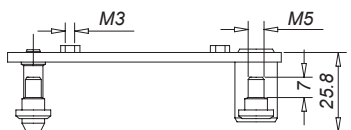
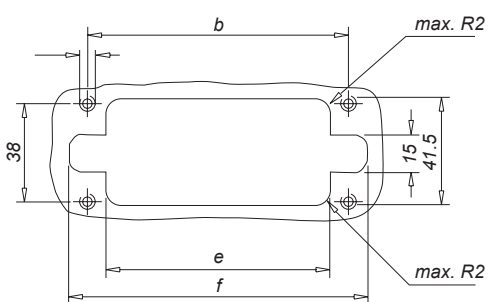
- ◆ 可以根据专门的要求组装连接体 Custom designs can be simply assembled
- ◆ 是当前和将来任务的最佳解决方案 Optimum solutions can be reached
- ◆ 降低库存 Stock can be minimized
- ◆ 安装及拆卸时不需要专用工具 Install and remove without special tools

# HM 模块框架 MODULAR FIXING FRAME

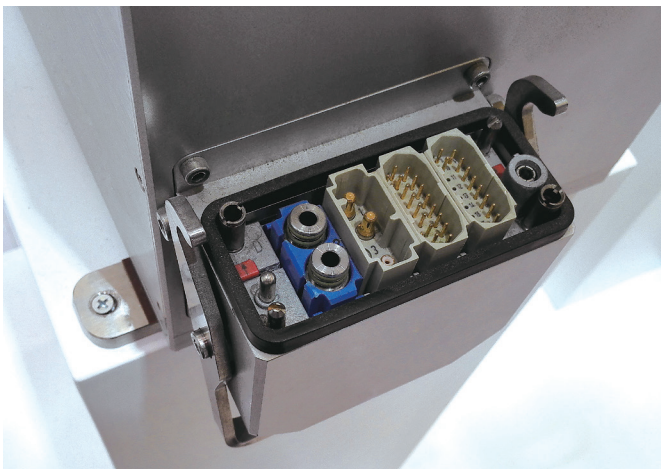
| 对接架 Docking frame   | 参数 Parameter                                    | 型号 Type                | 订货号 Part No.             | 比例图 Drawing   | 尺寸：单位 Dimensions in mm  |                   |                      |   |   |   |   |      |   |      |      |    |      |     |   |    |    |    |    |      |   |    |      |    |    |      |   |      |      |    |      |      |   |     |     |    |     |
|---|---|------------------------|--------------------------|---|---|-------------------|----------------------|---|---|---|---|------|---|------|------|----|------|-----|---|----|----|----|----|------|---|----|------|----|----|------|---|------|------|----|------|------|---|-----|-----|----|-----|
|    | H6B 框架, 可安装 2 个准模块<br>H6B frame for 2 modules   | H6B-T2-M<br>H6B-T2-F   | 5140060303<br>5140060313 |   | <table border="1"> <thead> <tr> <th>对应外壳 Hood/Housing</th> <th>安装模块数 No. of modules</th> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>H10A</td> <td>1</td> <td>49.5</td> <td>56.5</td> <td>24</td> <td>57.5</td> </tr> <tr> <td>H6B</td> <td>2</td> <td>44</td> <td>51</td> <td>35</td> <td>52</td> </tr> <tr> <td>H10B</td> <td>3</td> <td>57</td> <td>64.1</td> <td>49</td> <td>66</td> </tr> <tr> <td>H16B</td> <td>4</td> <td>77.5</td> <td>84.5</td> <td>64</td> <td>85.5</td> </tr> <tr> <td>H24B</td> <td>6</td> <td>104</td> <td>111</td> <td>94</td> <td>112</td> </tr> </tbody> </table> | 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 |
| 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   |                   |                      |   |   |   |   |      |   |      |      |    |      |     |   |    |    |    |    |      |   |    |      |    |    |      |   |      |      |    |      |      |   |     |     |    |     |
|    | H10B 框架, 可安装 3 个准模块<br>H10B frame for 3 modules | H10B-T3-M<br>H10B-T3-F | 5140100303<br>5140100313 |   |   |                   |                      |   |   |   |   |      |   |      |      |    |      |     |   |    |    |    |    |      |   |    |      |    |    |      |   |      |      |    |      |      |   |     |     |    |     |
|  | H16B 框架, 可安装 4 个准模块<br>H16B frame for 4 modules | H16B-T4-M<br>H16B-T4-F | 5140160303<br>5140160313 |   |   |                   |                      |   |   |   |   |      |   |      |      |    |      |     |   |    |    |    |    |      |   |    |      |    |    |      |   |      |      |    |      |      |   |     |     |    |     |
|   | H24B 框架, 可安装 6 个准模块<br>H24B frame for 6 modules | H24B-T6-M<br>H24B-T6-F | 5140240303<br>5140240313 |   |   |                   |                      |   |   |   |   |      |   |      |      |    |      |     |   |    |    |    |    |      |   |    |      |    |    |      |   |      |      |    |      |      |   |     |     |    |     |
|   |   |                        |                          | <p>框架之间最大安装距离 Distance for electric contacts max.21mm<br/>对气动接插件最大安装距离 For pneumatic contacts max.20.5mm<br/>每套框架由一个上架和一个下架所组成<br/>Each frame is composed of an upper and a lower bracket</p> |   |                   |                      |   |   |   |   |      |   |      |      |    |      |     |   |    |    |    |    |      |   |    |      |    |    |      |   |      |      |    |      |      |   |     |     |    |     |

HM 模块系列

# HM 框架 MODULAR

| 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   |         |              |   |                        |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |
| <br><br><br>供货范围 Range of delivery :<br>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 | H6B     | 5140060000   |    |                        |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |
|   | H10B    | 5140100000   |    |                        |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |
|   | H16B    | 5140160000   |    |                        |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |
|   | H24B    | 5140240000   |   |                        |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |
|   |         |              | <table border="1"> <thead> <tr> <th>规格 Size</th> <th>a</th> <th>b</th> <th>e</th> <th>f</th> </tr> </thead> <tbody> <tr> <td>H6B</td> <td>86</td> <td>69</td> <td>54.5</td> <td>84</td> </tr> <tr> <td>H10B</td> <td>99</td> <td>82</td> <td>67.5</td> <td>97</td> </tr> <tr> <td>H16B</td> <td>119.5</td> <td>102.5</td> <td>88</td> <td>117.5</td> </tr> <tr> <td>H24B</td> <td>146</td> <td>129</td> <td>114.5</td> <td>144</td> </tr> </tbody> </table> | 规格 Size                | a | b | e | f | H6B | 86 | 69 | 54.5 | 84 | H10B | 99 | 82 | 67.5 | 97 | H16B | 119.5 | 102.5 | 88 | 117.5 | H24B | 146 | 129 | 114.5 | 144 |  |
| 规格 Size   | a       | b            | e   | f                      |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |
| H6B   | 86      | 69           | 54.5  | 84                     |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |
| H10B  | 99      | 82           | 67.5  | 97                     |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |
| H16B  | 119.5   | 102.5        | 88  | 117.5                  |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |
| H24B  | 146     | 129          | 114.5   | 144                    |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |
|   |         |              | 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   |                        |   |   |   |   |     |    |    |      |    |      |    |    |      |    |      |       |       |    |       |      |     |     |       |     |  |

HM 模块系列





# HM-001 模块连接器 MODULAR CONNECTORS

|                    |   |  |   |  |  |  |
|--------------------|---|--|---|--|--|--|
| 产品系列 Series        | HM-001  | HM-001C  | HM-002  | HM-002C  |  |  |
| 模块 Modules         | 接线方式: 轴向压接<br>Termination methods: Axial screw terminal | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal | 接线方式: 轴向压接<br>Termination methods: Axial screw terminal | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal |  |  |
| 额定电流 Rated current | 200A  | 200A   | 100A  | 100A   |  |  |
| 额定电压 Rated voltage | 1000V   | 1000V  | 1000V   | 1000V  |  |  |
| 线规 Wire gauge      | 7.10.5  | 25-70mm <sup>2</sup>                               | 7.10.6  | 10-35mm <sup>2</sup>                               |  |  |
| 页码 Page            | 7.10.5  | 7.10.5   | 7.10.6  | 7.10.6   |  |  |
| 产品系列 Series        | HM-S02  | HM-S02C  | HM-003  | HM-3/4   |  |  |
| 模块 Modules         | 接线方式: 轴向压接<br>Termination methods: Axial screw terminal | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal      | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal |  |  |
| 额定电流 Rated current | 40A   | 40A  | 40A   | 40A/10A  |  |  |
| 额定电压 Rated voltage | 1000V   | 1000V  | 690V  | 400V/250V  |  |  |
| 线规 Wire gauge      | 7.10.7  | 1.5-10.0mm <sup>2</sup>                            | 1.5-10.0mm <sup>2</sup>                                 | 1.5-6.0mm <sup>2</sup> /0.14-2.5mm <sup>2</sup>    |  |  |
| 页码 Page            | 7.10.7  | 7.10.7   | 7.10.8  | 7.10.9   |  |  |
| 产品系列 Series        | HM-004  | HM-006   | HM-F06  | HM-008   |  |  |
| 模块 Modules         | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal      | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal      | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal |  |  |
| 额定电流 Rated current | 40A   | 16A  | 16A   | 16A  |  |  |
| 额定电压 Rated voltage | 830V  | 500V   | 830V  | 400V   |  |  |
| 线规 Wire gauge      | 1.5-6.0mm <sup>2</sup>                                  | 0.5-4.0mm <sup>2</sup>                             | 0.5-4.0mm <sup>2</sup>                                  | 0.5-4.0mm <sup>2</sup>                             |  |  |
| 页码 Page            | 7.10.10   | 7.10.11  | 7.10.12   | 7.10.13  |  |  |
| 产品系列 Series        | HM-012  | HM-017   | HM-020  | HM-025   |  |  |
| 模块 Modules         | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal      | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal      | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal |  |  |
| 额定电流 Rated current | 10A   | 10A  | 16A   | 5A   |  |  |
| 额定电压 Rated voltage | 250V  | 160V   | 500V  | 50V  |  |  |
| 线规 Wire gauge      | 0.14-2.5mm <sup>2</sup>                                 | 0.14-2.5mm <sup>2</sup>                            | 0.5-4.0mm <sup>2</sup>                                  | 0.13-0.52mm <sup>2</sup>                           |  |  |
| 页码 Page            | 7.10.14   | 7.10.15  | 7.10.16   | 7.10.17  |  |  |
| 产品系列 Series        | HM-D Sub  | HM-D Sub   | HM-RJ45   | HM-DM  | HM-PA2 HM-PA3                                      | HM-PAM2 HM-PAM3  |
| 模块 Modules         |   |  |   | 堵头 Dummy module                                    |  |  |
| 额定电流 Rated current | 5A  | 5A   | 1A  |  |  |  |
| 额定电压 Rated voltage | 50V   | 50V  | 50V   |  |  |  |
| 线规 Wire gauge      | 7.10.18   | 7.10.18  | 0.89-0.99mm <sup>2</sup> /0.94-1.07mm <sup>2</sup>      | 7.10.19  | 7.10.20-9.10.21                                    | 7.10.22  |
| 页码 Page            | 7.10.18   | 7.10.18  | 7.10.19   | 7.10.19  | 7.10.20-9.10.21                                    | 7.10.22  |
| 产品系列 Series        | HM-Q2   | Quintax-001  | Quintax-004   | Quintax-008  | Ethernet Cat. 5e                                   | HM-005   |
| 模块 Modules         | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal      | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal      | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal | 接线方式: 冷压针压接<br>Termination methods: Crimp terminal | 接线方式: 弹片压接 / 快速压接<br>Termination methods: Quick Lock/Cage-clamp terminal |
| 额定电流 Rated current | 10A   | 16A  | 16A   | 16A  | 10A  | 16A  |
| 额定电压 Rated voltage | 50V   | 50V  | 50V   | 50V  |  | 400V   |
| 线规 Wire gauge      | 0.14-2.5mm <sup>2</sup>                                 | 0.5-4.0mm <sup>2</sup>                             | 0.5-2.5mm <sup>2</sup>                                  | 0.08-0.52mm <sup>2</sup>                           | 7.10.25  | 0.14-2.5mm <sup>2</sup>  |
| 页码 Page            | 7.10.23   | 7.10.23  | 7.10.24   | 7.10.24  | 7.10.25  | 7.10.26  |

# HM-001、HM-001C 模块连接器 MODULAR CONNECTORS



额定电流 Rated current: 200 A 额定电压 Rated voltage: 1000 V

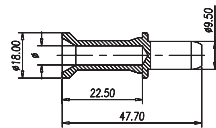
| 接线方式: 轴向压接<br>Termination methods: Axial screw terminal  | 型号 Type   | 产品系列<br>Series mm <sup>2</sup> | 订货号 Part No.     |  | 尺寸图 Drawing (mm)   |
|--|-----------|--------------------------------|------------------|--|--|
|  |           |                                | 公接插针 Male insert | 母接插针 Female insert   |  |
| <br>M F         | HM-001-MD | 25-40                          | 5140012663       |  | <br>M |
|  | HM-001-M  | 40-70                          | 5140012662       |  |  |
|  | HM-001-FD | 25-40                          | 5140012763       |  | <br>F |
|  | HM-001-F  | 40-70                          | 5140012762       |  |  |
| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | HM-001C-M |                                | 5140013001       |  | <br>M |
| HM-001C-F  |           | 5140013101                     |                  | <br>F |  |

## 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:  $\leq 4\text{m}\Omega$   
接线形式: 冷压接线  
Termination methods: Crimp connection

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<br>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  | 3 110006121  |
| 50                                  | 10   | 22.5                          | CHM-50  | 3110006122   |
| 70                                  | 11.5 | 22.5                          | CHM-70  | 3110006123   |

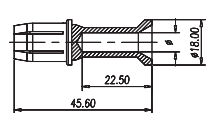
CHM



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<br>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   |

## 技术参数 Technical characteristics

### 1 插芯 Inserts


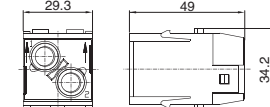
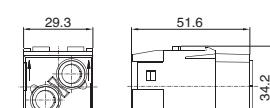
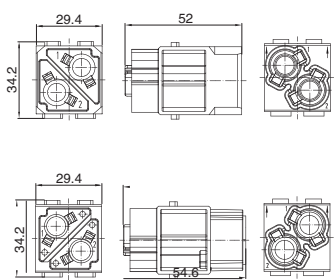
|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts Number of contacts      | 1                    |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| - 额定电流 Rated current                  | 200A                 |
| - 额定电压 Rated voltage                  | 1000V                |
| - 额定脉冲电压 Rated impulse voltage        | 8kV                  |
| - 污染程度 Pollution degree               | 3                    |
| 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°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     | $\leq 0.3\text{m}\Omega$ |
| 轴向螺栓连接 Axial screw terminal |                          |
| 冷压连接 Crimp terminal         |                          |
| - mm <sup>2</sup>           | 25-70 mm <sup>2</sup>    |
| 剥线长度                        | 22.5 mm                  |

# HM-002、HM-002C 模块连接器 MODULAR CONNECTORS

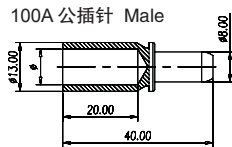
额定电流 Rated current: 100A 额定电压 Rated voltage: 1000V

| 接线方式: 轴向压接<br>Termination methods: Axial screw terminal  | 型号 Type   | 产品系列<br>Series mm <sup>2</sup> | 订货号 Part No.     |                    | 尺寸图 Drawing (mm)  |
|--|-----------|--------------------------------|------------------|--------------------|---|
|  |           |                                | 公接插针 Male insert | 母接插针 Female insert |   |
| <br>M F         | HM-002-MD | 10-25                          | 5140022653       |                    | <br>M    |
|  | HM-002-M  | 16-35                          | 5140022651       |                    |   |
|  | HM-002-FD | 10-25                          | 5140022753       |                    | <br>F    |
|  | HM-002-F  | 16-35                          | 5140022751       |                    |   |
| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | HM-002C-M |                                | 5140023051       |                    | <br>M F |
|  | HM-002C-F |                                | 5140023151       |                    |   |

## 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



| 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 |              |
|-------------------------------------|-----|-------------------------------|-------------------------------------|--------------|
|                                     |     |                               | 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   |

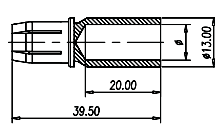
### CNM



### 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 |              |
|-------------------------------------|-----|-------------------------------|-------------------------------------|--------------|
|                                     |     |                               | 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   |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts Number of contacts      | 2                    |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| - 额定电流 Rated current                  | 100A                 |
| - 额定电压 Rated voltage                  | 1000V                |
| - 额定脉冲电压 Rated impulse voltage        | 8kV                  |
| - 污染程度 Pollution degree               | 3                    |
| 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°C ... +125°C     |
| 依据 UL94 阻燃等级 Flammability             | V0                   |
| 可拔插次数 Mating cycles                   | $\geq 500$           |

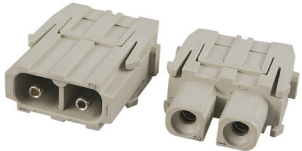
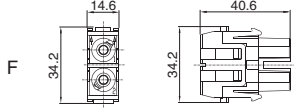

### 2 插针 Contacts

|                             |                          |
|-----------------------------|--------------------------|
| 材料 Material                 | 铜合金 Copper alloy         |
| 表面处理 Surface                | 镀银 Hard-silver plated    |
| 接触电阻 Contact resistance     | $\leq 0.3\text{m}\Omega$ |
| 电缆绞线依据 IEC 60 228-5         |                          |
| 轴向螺栓连接 Axial screw terminal |                          |
| - mm <sup>2</sup>           | 10-38 mm <sup>2</sup>    |
| - AWG                       | 6-2                      |
| - 内六角扳手 Hexagonal driver    | SW 4                     |
| - 剥线长度 Stripping length     | 13 mm                    |
| - 拧紧力矩 Tightening torque    |                          |
| - mm <sup>2</sup>           | 10 16 25 35              |
| - AWG                       | 6 6 7 8                  |
| 冷压连接 Crimp terminal         |                          |
| - mm <sup>2</sup>           | 10-35 mm <sup>2</sup>    |

# HM-S02、HM-S02C 模块连接器 MODULAR CONNECTORS



额定电流 Rated current: 40A 额定电压 Rated voltage: 1000V

| 接线方式: 轴向压接<br>Termination methods: Axial screw terminal  | 型号 Type   | 产品系列<br>Series mm <sup>2</sup> | 订货号 Part No.     |                    | 尺寸图 Drawing (mm)  |
|--|-----------|--------------------------------|------------------|--------------------|---|
|  |           |                                | 公接插针 Male insert | 母接插针 Female insert |   |
|  <p>M F</p>     | HM-S02-MD | 2.5-8                          | 5140022601       |                    |  |
|  | HM-S02-M  | 6-10                           | 5140022602       |                    |   |
|  | HM-S02-FD | 2.5-8                          |                  | 5140022701         |  |
|  | HM-S02-F  | 6-10                           |                  | 5140022702         |   |
| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | HM-S02C-M |                                | 5140023002       |                    |  |
|  <p>M F</p>     | HM-S02C-F |                                | 5140023102       |                    |   |

HM 模块系列

## 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

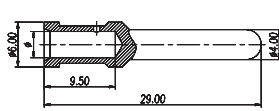
CMM



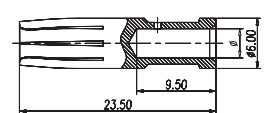
CMF



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 |              |
|-------------------------------------|-------------------------------|-------|-------------------------------------|--------------|
|                                     | AWG                           | mm    | 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 | 接线长度 (mm)<br>Stripping length |       | 镀银冷压针 Crimp contacts, silver-plated |              |
|-------------------------------------|-------------------------------|-------|-------------------------------------|--------------|
|                                     | AWG                           | mm    | 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   |

## 技术参数 Technical characteristics

### 1 插芯 Inserts


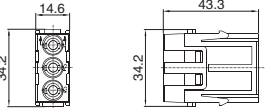
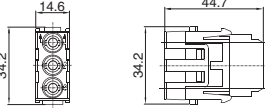
|                                       |                     |
|---------------------------------------|---------------------|
| 接插件针数 Inserts Number of contacts      | 2                   |
| 依据 DIN EN 61984 的电气数据 Electrical data |                     |
| - 额定电流 Rated current                  | 40A                 |
| - 额定电压 Rated voltage                  | 1000V               |
| - 额定脉冲电压 Rated impulse voltage        | 8kV                 |
| - 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 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  |
| 轴向螺栓连接 Axial screw terminal |  |
| - mm <sup>2</sup>           | 2.5-10 mm <sup>2</sup>   |
| - AWG                       | 14-8   |
| - 内六角扳手 Hexagonal driver    | SW 2   |
| - 剥线长度 Stripping length     |  |
| - mm <sup>2</sup>           | 2.5 4 6 10   |
| - AWG                       | 5 <sup>+1</sup> 5 <sup>-1</sup> 8 <sup>+1</sup> 11 <sup>+1</sup> |
| - 拧紧力矩 Tightening torque    |  |
| - mm <sup>2</sup>           | 2.5 4 6 10   |
| - AWG                       | 1.5 1.5 2 2  |
| 接触电阻 Contact resistance     | ≤ 0.5 mΩ   |
| 冷压连接 Crimp terminal         |  |
| - mm <sup>2</sup>           | 1.5-10 mm <sup>2</sup>   |
| - AWG                       | 16-8   |
| 接触电阻 Contact resistance     | ≤ 0.3 mΩ   |

# HM-003 模块连接器 MODULAR CONNECTORS

额定电流 Rated current: 40A 额定电压 Rated voltage: 690V

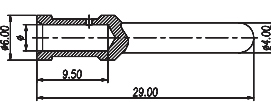
| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | 型号 Type  | 订货号 Part No.     |                    | 尺寸图 Drawing (mm) |   |
|--|----------|------------------|--------------------|------------------|---|
|  |          | 公接插针 Male insert | 母接插针 Female insert |                  |   |
| <br>M F         | HM-003-M | 5140033001       |                    | M                |  |
|  | HM-003-F |                  | 5140033101         | F                |  |

## 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:  $\leq 4\text{m}\Omega$   
接线形式: 冷压接线  
Termination methods: Crimp connection

### 40A 公插针 Male



|      | 接线长度 (mm)<br>Stripping length |              | 镀银冷压针 Crimp contacts, silver-plated |            |
|------|-------------------------------|--------------|-------------------------------------|------------|
|      | 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 |

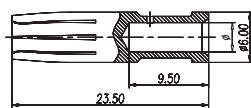
### CMM



### CMF



### 40A 母插针 Female



|      | 接线长度 (mm)<br>Stripping length |              | 镀银冷压针 Crimp contacts, silver-plated |            |
|------|-------------------------------|--------------|-------------------------------------|------------|
|      | 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 |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插针数 Inserts Number of contacts       | 3                    |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| 电缆直径 Insulation diameter up to        | 7.5mm                |
| - 额定电流 Rated current                  | 40A                  |
| - 额定电压 Rated voltage                  | 500V                 |
| - 额定脉冲电压 Rated impulse voltage        | 6kV                  |
| - 污染程度 Pollution degree               | 3                    |
| 依据 UL/CSA 的额定电压 Rated voltage         | 600V                 |
| 依据 UL/CSA 的额定电流 Rated current         | 32A                  |
| 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                   | $\geq 500$           |

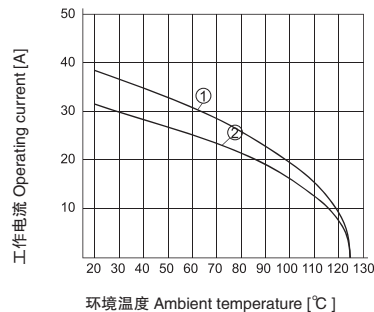
### 2 插针 Contacts

|                         |                          |
|-------------------------|--------------------------|
| 材料 Material             | 铜合金 Copper alloy         |
| 表面处理 Surface            | 镀银 Hard-silver plated    |
| 接触电阻 Contact resistance | $\leq 0.3\text{m}\Omega$ |
| 冷压连接 Crimp terminal     |                          |
| -mm <sup>2</sup>        | 1.5-10 mm <sup>2</sup>   |
| -AWG                    | 16-8                     |

### 电流负载能力 Current carrying capacity

电流负载能力所受的限制主要来自包含接插针的接插体可承受的最大温度测试和控制过程依据 DIN EN 60512-5

Current load capacity, mainly from the restrictions include plug the plug of the needle body can withstand maximum temperature Testing and control process according to DIN EN 60512-5



① 24B 外壳带6个模块, 导线截面 Wire gauge: 6 mm<sup>2</sup>

② 24B 外壳带6个模块, 导线截面 Wire gauge: 4 mm<sup>2</sup>



# HM-3/4 模块连接器 MODULAR CONNECTORS



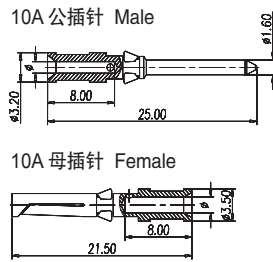
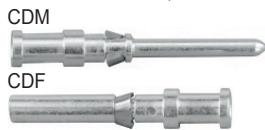
额定电流 Rated current: 40 A / 10A 额定电压 Rated voltage: 400 V / 250V

|  |  | 型号 Type  | 订货号 Part No.     |                    | 尺寸图 Drawing (mm) |  |  |
|--|--|----------|------------------|--------------------|------------------|--|--|
|  |  |          | 公接插针 Male insert | 母接插针 Female insert |                  |  |  |
| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) |  | HM-3/4-M | 5140073001       |                    |                  |  |  |
|  |  | HM-3/4-F |                  | 5140073101         |                  |  |  |

## 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:  $\leq 3m\Omega$   
 接线形式: 冷压接线  
 Termination methods: Crimp connection

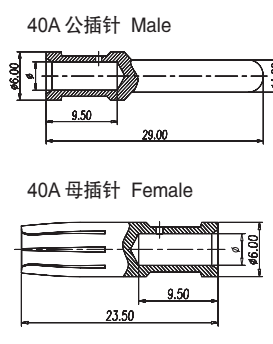
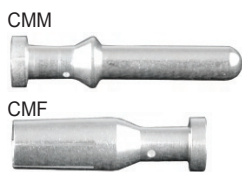


| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度<br>Stripping length | 公接插针 Male insert<br>型号 Type | 公接插针 Male insert<br>订货号 Part No. | 母接插针 Female insert<br>型号 Type | 母接插针 Female insert<br>订货号 Part No. |            |
|-------------------------------------|--------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------------|------------|
| 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 |

## 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



| 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

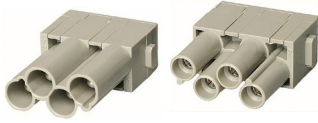
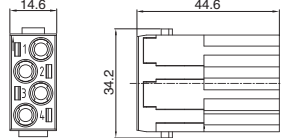
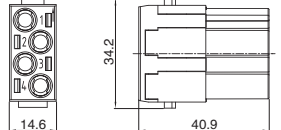
|                                       |                      |
|---------------------------------------|----------------------|
| 插插件针数 Inserts Number of contacts      | 3/4                  |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| 电源区 Power area                        |                      |
| - 额定电流 Rated current                  | 40A                  |
| - 额定电压 Rated voltage                  | 830V                 |
| - 额定脉冲电压 Rated impulse voltage        | 8kV                  |
| - 污染程度 Pollution degree               | 3                    |
| 信号区 Signal area                       |                      |
| - 额定电流 Rated current                  | 10A                  |
| - 额定电压 Rated voltage                  | 830V                 |
| - 额定脉冲电压 Rated impulse voltage        | 8kV                  |
| - 污染程度 Pollution degree               | 3                    |
| 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°C ... +125°C     |
| 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    |
| 接线形式 Termination methods   | 螺丝连接 Screw terminal      |
| 接触电阻 Contact resistance    |                          |
| - 电源针 Power contacts       | $\leq 0.3 m\Omega$       |
| - 信号针 Signal contacts      | $\leq 3 m\Omega$         |
| 冷压连接 Crimp terminal        |                          |
| -mm <sup>2</sup>           |                          |
| - 电源针 Power contacts       | 1.5-6 mm <sup>2</sup>    |
| - 信号针 Signal contacts      | 0.14-2.5 mm <sup>2</sup> |
| -AWG                       |                          |
| - 电源针 Power contacts       | 16-10                    |
| - 信号针 Signal contacts      | 26-14                    |
| 最大电缆直径: 电源针 Power contacts | 5mm                      |

# HM-004 模块连接器 MODULAR CONNECTORS

额定电流 Rated current: 40A 额定电压 Rated voltage: 830V

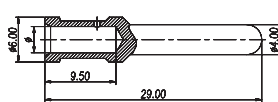
| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | 型号 Type  | 订货号 Part No.     |                    | 尺寸图 Drawing (mm)  |   |
|--|----------|------------------|--------------------|---|---|
|  |          | 公接插针 Male insert | 母接插针 Female insert |   |   |
| <br>M F         | HM-004-M | 5140043041       |                    |  | M |
|  | HM-004-F |                  | 5140043141         |  | F |

## 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

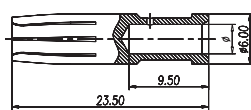


| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度 (mm)<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated |              |
|-------------------------------------|-------------------------------|-------------------------------------|--------------|
|                                     |           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

CMM



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 |              |
|-------------------------------------|-------------------------------|-------------------------------------|--------------|
|                                     |                               | 型号 Type                             | 订货号 Part No. |
| 1.5                                 | AWG16                         | CMF-1.5                             | 3320006204   |
| 2.5                                 | AWG14                         | CMF-2.5                             | 3320006205   |
| 4.0                                 | AWG12                         | CMF-4.0                             | 3320006207   |
| 6.0                                 | AWG10                         | CMF-6.0                             | 3320006208   |
| 10.0                                | AWG7                          | CMF-10                              | 3320006209   |

CMF



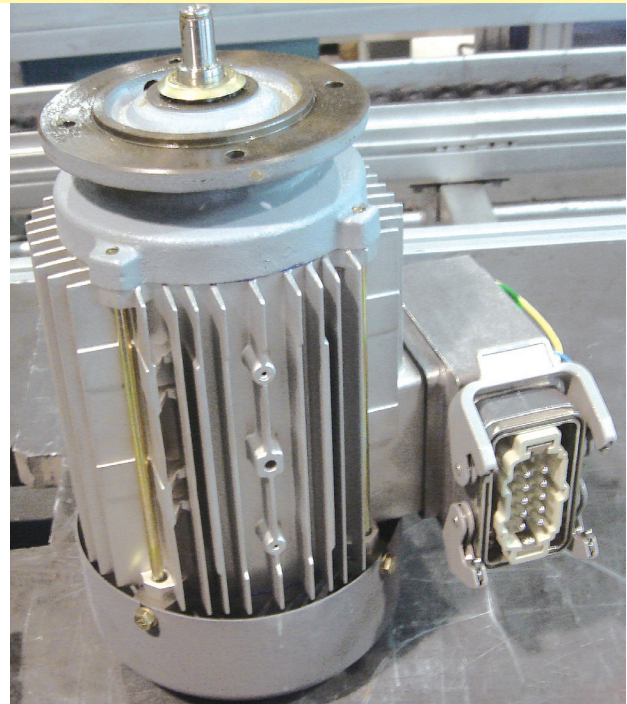
## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts Number of contacts      | 4                    |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| - 额定电流 Rated current                  | 40A                  |
| - 额定电压 Rated voltage                  | 830V                 |
| - 额定脉冲电压 Rated impulse voltage        | 8kV                  |
| - 污染程度 Pollution degree               | 3                    |
| 依据 UL 的额定电压 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°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 | $\leq 0.3m\Omega$     |
| 冷压连接 Crimp terminal     |                       |
| - mm <sup>2</sup>       | 1.5-6 mm <sup>2</sup> |
| - AWG                   | 16-10                 |



# HM-006 模块连接器 MODULAR CONNECTORS



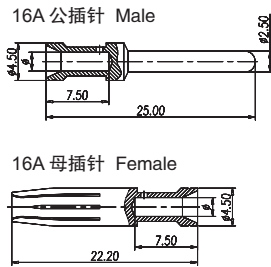
额定电流 Rated current: 16 A 额定电压 Rated voltage: 500 V

| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | 型号 Type  | 订货号 Part No.     |                    | 尺寸图 Drawing (mm) |  |
|--|----------|------------------|--------------------|------------------|--|
|  |          | 公接插针 Male insert | 母接插针 Female insert |                  |  |
|  | HM-006-M | 5140063001       |                    | M                |  |
|  | HM-006-F |                  | 5140063101         | F                |  |

## 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



| 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 |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts Number of contacts      | 6                    |
| 依据 DIN 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                    |
| 依据 UL 的额定电压 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°C ... +125°C     |
| 依据 UL94 阻燃等级 Flammability             | V0                   |
| 可拔插次数 Mating cycles                   | $\geq 500$           |

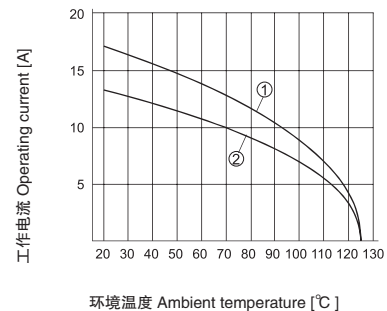
### 2 插针 Contacts

|                         |                        |
|-------------------------|------------------------|
| 材料 Material             | 铜合金 Copper alloy       |
| 表面处理 Surface            | 镀银 Hard-silver plated  |
|                         | 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                  |

### 电流负载能力 Current carrying capacity

电流负载能力所受的限制主要来自包含接插针的接插体可承受的最大温度测试和控制过程依据 DIN EN 60512-5

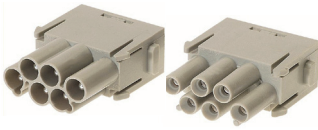
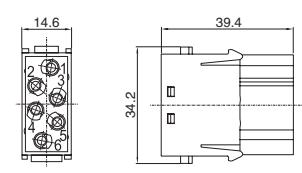
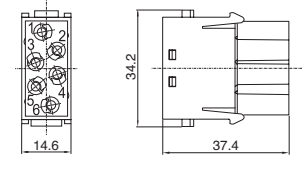
Current load capacity, mainly from the restrictions include plug the plug of the needle body can withstand maximum temperature Testing and control process according to DIN EN 60512-5



① 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 2.5 mm<sup>2</sup>  
② 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 1.5 mm<sup>2</sup>

# HM-F06 模块连接器 MODULAR CONNECTORS

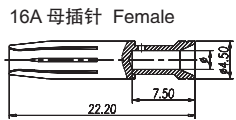
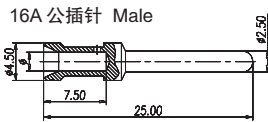
额定电流 Rated current: 16A 额定电压 Rated voltage: 830V

| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | 型号 Type  | 订货号 Part No.     |                    | 尺寸图 Drawing (mm) |   |
|--|----------|------------------|--------------------|------------------|---|
|  |          | 公接插针 Male insert | 母接插针 Female insert |                  |   |
| <br>M F         | HM-F06-M | 5140063041       |                    | M                |  |
|  | HM-F06-F |                  | 5140063141         | F                |  |

## 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



| 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 |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts Number of contacts      | 6                    |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| - 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                    |
| 依据 UL 的额定电压 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°C ... +125°C     |
| 依据 UL94 阻燃等级 Flammability             | V0                   |
| 可拔插次数 Mating cycles                   | $\geq 500$           |

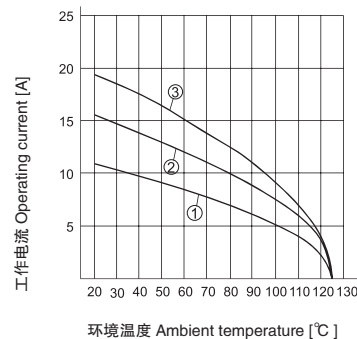
### 2 插针 Contacts

|                         |  |
|-------------------------|--|
| 材料 Material             | 铜合金 Copper alloy                             |
| 表面处理 Surface            | 镀银 Hard-silver plated<br>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  |

### 电流负载能力 Current carrying capacity

电流负载能力所受的限制主要来自包含接插针的接插体可承受的最大温度测试和控制过程依据 DIN EN 60512-5

Current load capacity, mainly from the restrictions include plug the plug of the needle body can withstand maximum temperature Testing and control process according to DIN EN 60512-5



- ① 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 1.5 mm<sup>2</sup>
- ② 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 2.5 mm<sup>2</sup>
- ③ 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 4.0 mm<sup>2</sup>



# HM-008 模块连接器 MODULAR CONNECTORS



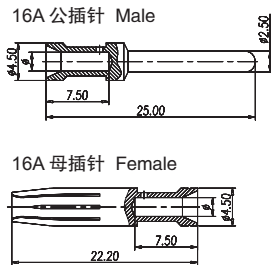
额定电流 Rated current: 16 A    额定电压 Rated voltage: 400 V

| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | 型号 Type  | 订货号 Part No.     |                    | 尺寸图 Drawing (mm) |  |
|--|----------|------------------|--------------------|------------------|--|
|  |          | 公接插针 Male insert | 母接插针 Female insert |                  |  |
|  | HM-008-M | 5140083001       |                    | M                |  |
|  | HM-008-F |                  | 5140083101         | F                |  |

## 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



| 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 |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts Number of contacts      | 8                    |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| - 额定电流 Rated current                  | 16A                  |
| - 额定电压 Rated voltage                  | 400V                 |
| - 额定脉冲电压 Rated impulse voltage        | 6kV                  |
| - 污染程度 Pollution degree               | 3                    |
| 依据 UL 的额定电压 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°C ... +125°C     |
| 依据 UL94 阻燃等级 Flammability             | V0                   |
| 可拔插次数 Mating cycles                   | $\geq 500$           |

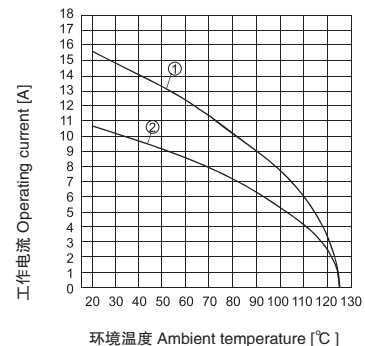
### 2 插针 Contacts

|                         |                        |
|-------------------------|------------------------|
| 材料 Material             | 铜合金 Copper alloy       |
| 表面处理 Surface            | 镀银 Hard-silver plated  |
|                         | 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                  |

### 电流负载能力 Current carrying capacity

电流负载能力所受的限制主要来自包含接插针的接插体可承受的最大温度测试和控制过程依据 DIN EN 60512-5


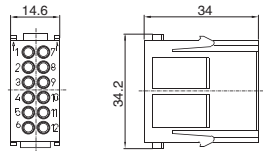
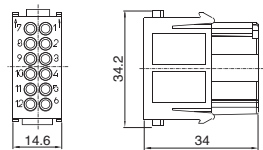
Current load capacity, mainly from the restrictions include plug the plug of the needle body can withstand maximum temperature Testing and control process according to DIN EN 60512-5



- ① 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 2.5 mm<sup>2</sup>
- ② 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 1.5 mm<sup>2</sup>

# HM-012 模块连接器 MODULAR CONNECTORS

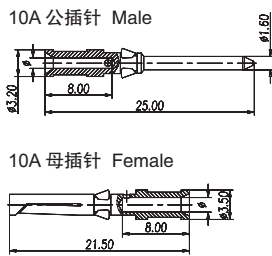
额定电流 Rated current: 10A 额定电压 Rated voltage: 250V

| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | 型号 Type  | 订货号 Part No.     |                    | 尺寸图 Drawing (mm) |   |
|--|----------|------------------|--------------------|------------------|---|
|  |          | 公接插针 Male insert | 母接插针 Female insert |                  |   |
| <br>M F         | HM-012-M | 5140123001       |                    | M                |  |
|  | HM-012-F |                  | 5140123101         | F                |  |

## 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:  $\leq 3\text{m}\Omega$   
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 |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts Number of contacts      | 12                   |
| 依据 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                    |
| 依据 UL 的额定电压 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°C ... +125°C     |
| 依据 UL94 阻燃等级 Flammability             | V0                   |
| 可拔插次数 Mating cycles                   | $\geq 500$           |

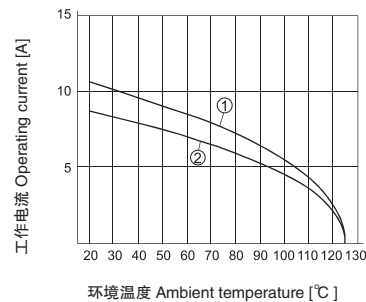
### 2 插针 Contacts

|                         |                         |
|-------------------------|-------------------------|
| 材料 Material             | 铜合金 Copper alloy        |
| 表面处理 Surface            | 镀银 Hard-silver plated   |
|                         | 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>        | 0.14-2.5mm <sup>2</sup> |
| -AWG                    | 26-14                   |

### 电流负载能力 Current carrying capacity

电流负载能力所受的限制主要来自包含接插针的接插体可承受的最大温度测试和控制过程依据 DIN EN 60512-5

Current load capacity, mainly from the restrictions include plug the plug of the needle body can withstand maximum temperature Testing and control process according to DIN EN 60512-5



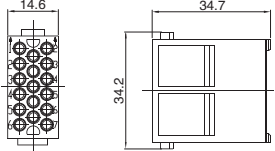
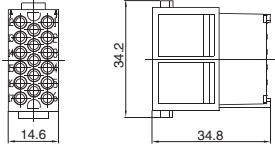


- ① 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 1.5 mm<sup>2</sup>  
② 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 1.0 mm<sup>2</sup>

# HM-017 模块连接器 MODULAR CONNECTORS



额定电流 Rated current: 10 A 额定电压 Rated voltage: 160 V

| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately)  | 型号 Type  | 订货号 Part No.     |                    | 尺寸图 Drawing (mm) |   |
|---|----------|------------------|--------------------|------------------|---|
|   |          | 公接插针 Male insert | 母接插针 Female insert |                  |   |
|  M  F | HM-017-M | 5140173001       |                    | M                |  |
|   | HM-017-F |                  | 5140173101         | F                |  |

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

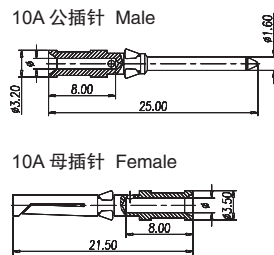
技术参数 Technical data

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

CDM



CDF



| 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 |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts Number of contacts      | 17                   |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| - 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 的额定电压 Rated voltage             | 250V                 |
| 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                   | $\geq 500$           |

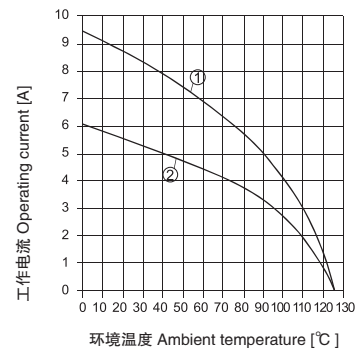
### 2 插针 Contacts

|                         |  |
|-------------------------|--|
| 材料 Material             | 铜合金 Copper alloy                             |
| 表面处理 Surface            | 镀银 Hard-silver plated<br>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  |

### 电流负载能力 Current carrying capacity

电流负载能力所受的限制主要来自包含接插针的接插体可承受的最大温度测试和控制过程依据 DIN EN 60512-5


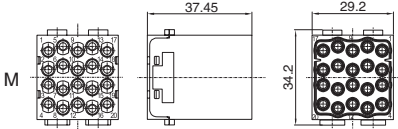
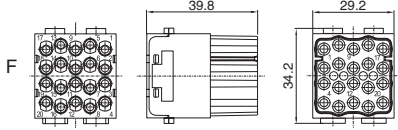
Current load capacity, mainly from the restrictions include plug the plug of the needle body can withstand maximum temperature Testing and control process according to DIN EN 60512-5



- ① 24B 外壳带6个模块, 导线截面 Wire gauge: 1.5mm<sup>2</sup>  
② 24B 外壳带6个模块, 导线截面 Wire gauge: 1.0mm<sup>2</sup>

# HM-020 模块连接器 MODULAR CONNECTORS

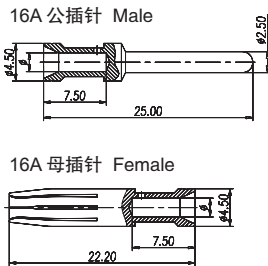
额定电流 Rated current: 16A 额定电压 Rated voltage: 500V

| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | 型号 Type  | 订货号 Part No.     |                    | 尺寸图 Drawing (mm)  |  |  |
|--|----------|------------------|--------------------|---|--|--|
|  |          | 公接插针 Male insert | 母接插针 Female insert |   |  |  |
| <br>M F         | HM-020-M | 5140203001       |                    |  |  |  |
|  | HM-020-F |                  | 5140203101         |  |  |  |

## 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



| 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                         |



## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts Number of contacts      | 20                   |
| 依据 DIN 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                    |
| 依据 UL 的额定电压 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°C ... +125°C     |
| 依据 UL94 阻燃等级 Flammability             | V0                   |
| 可拔插次数 Mating cycles                   | $\geq 500$           |

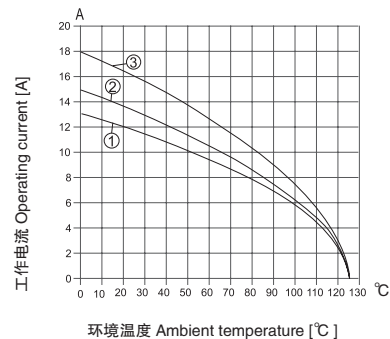
### 2 插针 Contacts

|                         |                         |
|-------------------------|-------------------------|
| 材料 Material             | 铜合金 Copper alloy        |
| 表面处理 Surface            | 镀银 Hard-silver plated   |
|                         | 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>        | 0.14-4.0mm <sup>2</sup> |
| -AWG                    | 26-12                   |

### 电流负载能力 Current carrying capacity

电流负载能力所受的限制主要来自包含接插针的接插体可承受的最大温度测试和控制过程依据 DIN EN 60512-5

Current load capacity, mainly from the restrictions include plug the plug of the needle body can withstand maximum temperature Testing and control process according to DIN EN 60512-5



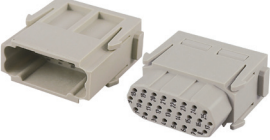
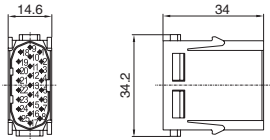
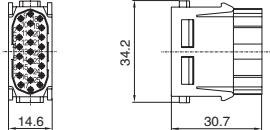
- ① 24B 外壳 带 3 个模块, 导线截面 Wire gauge: 1.5 mm<sup>2</sup>
- ② 24B 外壳 带 3 个模块, 导线截面 Wire gauge: 2.5 mm<sup>2</sup>
- ③ 24B 外壳 带 3 个模块, 导线截面 Wire gauge: 4.0 mm<sup>2</sup>



# HM-025 模块连接器 MODULAR CONNECTORS



额定电流 Rated current: 5 A 额定电压 Rated voltage: 50 V

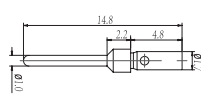
| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | 型号 Type  | 订货号 Part No.     |                    | 尺寸图 Drawing (mm) |   |
|--|----------|------------------|--------------------|------------------|---|
|  |          | 公接插针 Male insert | 母接插针 Female insert |                  |   |
| <br>M F         | HM-025-M | 5140253001       |                    | M                |  |
|  | HM-025-F |                  | 5140253101         | F                |  |

## 5A 插针 Contacts

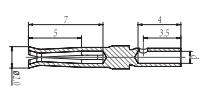
技术参数 Technical data  
 材质: 铜镀银 / 金  
 Material: Copper, hard silver / gold plated  
 接触电阻 Contact resistance:  $\leq 4\text{m}\Omega$   
 接线形式: 冷压接线  
 Termination methods: Crimp connection  
 CAM



5A 公插针 Male



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   |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts Number of contacts      | 25                   |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| - 额定电流 Rated current                  | 4A                   |
| - 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                    |
| 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                   | $\geq 500$           |

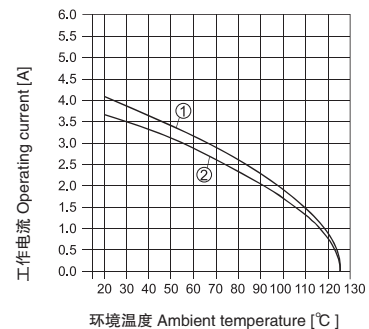
### 2 插针 Contacts

|                         |  |
|-------------------------|--|
| 材料 Material             | 铜合金 Copper alloy                             |
| 表面处理 Surface            | 镀银 Hard-silver plated<br>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>       | 0.13-0.52 mm <sup>2</sup>                    |
| - AWG                   | 28-20  |

### 电流负载能力 Current carrying capacity

电流负载能力所受的限制主要来自包含接插针的接插体可承受的最大温度测试和控制过程依据 DIN EN 60512-5


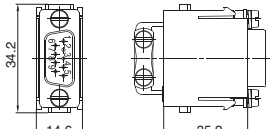
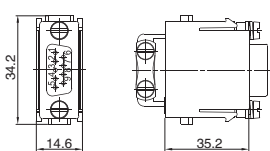
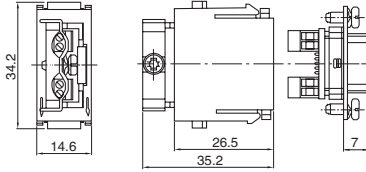
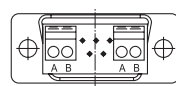
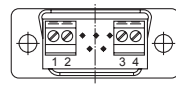
Current load capacity, mainly from the restrictions include plug of the needle body can withstand maximum temperature Testing and control process according to DIN EN 60512-5



- ① 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 0.5 mm<sup>2</sup> (车销针)
- ② 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 0.5 mm<sup>2</sup> (冲压针)

# HM-D Sub 模块连接器 MODULAR CONNECTORS

额定电流 Rated current: 5A 额定电压 Rated voltage: 50V

| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | 型号 Type                        | 订货号 Part No.             |                          | 尺寸图 Drawing (mm) |   |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
|--|--------------------------------|--------------------------|--------------------------|------------------|---|----|----|---|---|---|---|----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|
|  |                                | 公接插针 Male insert         | 母接插针 Female insert       |                  |   |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
| <br>M F         | HM-D Sub1.1-M                  | 5140093001               |                          | M                |    |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
|  | HM-D Sub1.1-F                  |                          | 5140093101               | F                |    |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
| 接线方式: 螺钉压接<br>Termination methods: Screw terminal<br>适用于 RS485 接口                                | HM-D Sub2.1-M<br>HM-D Sub2.2-M | 5140093051<br>5140094051 |                          |                  |    |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
|  | HM-D Sub2.1-F<br>HM-D Sub2.2-F |                          | 5140093151<br>5140094151 |                  | HM-D Sub2.1 接线图<br><table border="1"> <tr><th>信号</th><th>针位</th></tr> <tr><td>A</td><td>8</td></tr> <tr><td>B</td><td>3</td></tr> </table> <br>HM-D Sub2.2 接线图<br><table border="1"> <tr><th>信号</th><th>公针位</th><th>母针位</th></tr> <tr><td>1</td><td>7</td><td>8</td></tr> <tr><td>2</td><td>2</td><td>4</td></tr> <tr><td>3</td><td>4</td><td>2</td></tr> <tr><td>4</td><td>8</td><td>7</td></tr> </table>  | 信号 | 针位 | A | 8 | B | 3 | 信号 | 公针位 | 母针位 | 1 | 7 | 8 | 2 | 2 | 4 | 3 | 4 | 2 | 4 | 8 |
| 信号   | 针位                             |                          |                          |                  |   |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
| A  | 8                              |                          |                          |                  |   |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
| B  | 3                              |                          |                          |                  |   |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
| 信号   | 公针位                            | 母针位                      |                          |                  |   |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
| 1  | 7                              | 8                        |                          |                  |   |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
| 2  | 2                              | 4                        |                          |                  |   |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
| 3  | 4                              | 2                        |                          |                  |   |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |
| 4  | 8                              | 7                        |                          |                  |   |    |    |   |   |   |   |    |     |     |   |   |   |   |   |   |   |   |   |   |   |

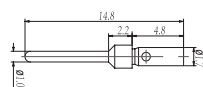
HM 模块系列

## 5A 插针 Contacts

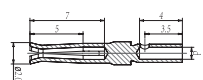
技术参数 Technical data  
材质: 铜镀银 / 金  
Material: Copper, hard silver / gold plated  
接触电阻 Contact resistance:  $\leq 4m\Omega$   
接线形式: 冷压接线  
Termination methods: Crimp connection



5A 公插针 Male



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   |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts/Number of contacts      | 9                    |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| - 额定电流 Rated current                  | 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                    |
| 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                   | $\geq 500$           |

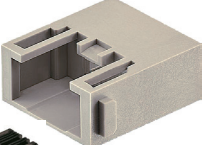

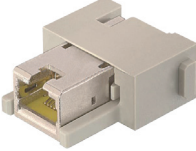
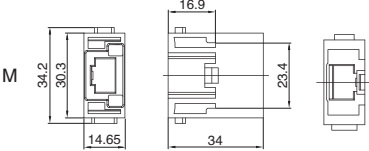
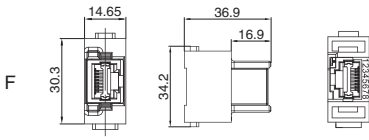
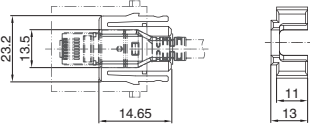
### 2 插针 Contacts

|                         |  |
|-------------------------|--|
| 材料 Material             | 铜合金 Copper alloy                             |
| 表面处理 Surface            | 镀银 Hard-silver plated<br>镀金 Hard-gold plated |
| 接触电阻 Contact resistance | $\leq 3m\Omega$                              |
| 冷压连接 Crimp terminal     |  |
| -mm <sup>2</sup>        | 0.09-0.82 mm <sup>2</sup>                    |
| -AWG                    | 28-18  |

# HM-RJ45 模块连接器 MODULAR CONNECTORS



额定电流 Rated current: 1 A    额定电压 Rated voltage: 50 V


|  | 型号 Type                      | 订货号 Part No.             |                    | 尺寸图 Drawing (mm)  |
|--|------------------------------|--------------------------|--------------------|---|
|  |                              | 公接插针 Male insert         | 母接插针 Female insert |   |
|  HM-RJ45-M<br> HM-RJ45-4/8PIN<br> HM-RJ45-F | HM-RJ45-M                    | 5140014632               |                    |  |
|  | HM-RJ45-4PIN<br>HM-RJ45-8PIN | 5454001100<br>5454001520 |                    |  |
|  | HM-RJ45-F                    |                          | 5140014721         |  |

HM 模块系列

## 技术参数 Technical characteristics

| 1 插芯 Inserts                          |   |
|---------------------------------------|---|
| 接插件针数 Inserts Number of contacts      | 8   |
| 依据 DIN EN 61984 的电气数据 Electrical data |   |
| - 额定电流 Rated current                  | 1A  |
| - 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   |
| 依据 UL 的额定电压 Rated voltage             | < 30V   |
| 传输特性                                  | 超 6 类可达 100MHz<br>依据 ISO/IEC 24 702<br>ISO/IEC 11 801 |
| 传输速率                                  | 10/100/1000 Mbit/s                                    |
| 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                   | $\geq 500$  |

# HM-DM 模块连接器 MODULAR CONNECTORS

|  | 型号 Type | 订货号 Part No. | 尺寸图 Drawing (mm)  |
|--|---------|--------------|---|
| 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 in the frame<br> | HM-DM   | 5140009950   |  |


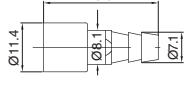
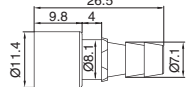
# HM-PA2 气动模块 PNEUMATIC MODULAR

## 气动模块 Pneumatic module

|  | 型号 Type | 订货号 Part No. | 尺寸图 Drawing (mm)  |
|--|---------|--------------|---|
| 适用 6.0 mm 气嘴<br>(气嘴请单独订购 Order contacts separately)<br><br> | HM-PA2  | 5140024501   |  |

## 气嘴 Pneumatic contacts

适用于软管内径 For tube internal diameter Ø6.0mm

|   | 描述                      | ID (mm) | 型号 Type        | 订货号 Part No. | 尺寸图 Drawing (mm)   |
|---|-------------------------|---------|----------------|--------------|--|
|    | 无锁止<br>Without shut off | Ø6.0    | PENU-PA2-6.0M  | 5140006174   | M<br>   |
|  | 无锁止<br>Without shut off | Ø6.0    | PENU-PA2-6.0F  | 5140006274   | F<br> |
|  | 带锁止<br>With shut off    | Ø6.0    | PENU-PA2-6.0FW | 5140006279   |       |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                  |                    |
|----------------------------------|--------------------|
| 接插件针数 Inserts Number of contacts | 2                  |
| 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"             |
| 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         |



# HM-PA3 气动模块 PNEUMATIC MODULAR



## 气动模块 Pneumatic module

|   | 型号 Type | 订货号 Part No. | 尺寸图 Drawing (mm) |
|---|---------|--------------|------------------|
| 适用 1.6 ; 3.0 ; 4.0 mm 气嘴<br>(气嘴请单独订购 Order contacts separately) | HM-PA3  | 5140034501   |                  |

## 气嘴 Pneumatic contacts

适用于软管内径 For tube internal diameter  $\varnothing$ 1.6-4.0mm

|  | 描述 describe             | ID (mm)           | 型号 Type        | 订货号 Part No. | 尺寸图 Drawing (mm) |
|--|-------------------------|-------------------|----------------|--------------|------------------|
|  | 无锁止<br>Without shut off | $\varnothing$ 1.6 | PENU-PA3-1.6M  | 5140006151   | 1.6              |
|  |                         | $\varnothing$ 3.0 | PENU-PA3-3.0M  | 5140006152   | 3.0              |
|  |                         | $\varnothing$ 4.0 | PENU-PA3-4.0M  | 5140006153   | 4.0              |
|  |                         |                   |                |              | M                |
|  | 无锁止<br>Without shut off | $\varnothing$ 1.6 | PENU-PA3-1.6F  | 5140006251   | 1.6              |
|  |                         | $\varnothing$ 3.0 | PENU-PA3-3.0F  | 5140006252   | 3.0              |
|  |                         | $\varnothing$ 4.0 | PENU-PA3-4.0F  | 5140006253   | 4.0              |
|  |                         |                   |                |              | F                |
|  | 带锁止<br>With shut off    | $\varnothing$ 1.6 | PENU-PA3-1.6FW | 5140006256   | 1.6              |
|  |                         | $\varnothing$ 3.0 | PENU-PA3-3.0FW | 5140006257   | 3.0              |
|  |                         | $\varnothing$ 4.0 | PENU-PA3-4.0FW | 5140006258   | 4.0              |
|  |                         |                   |                |              | FW               |

HM 模块系列

## 技术参数 Technical characteristics

| 1 插芯 Inserts                     |                    | 2 插针 Contacts               |                          |
|----------------------------------|--------------------|-----------------------------|--------------------------|
| 接插件针数 Inserts Number of contacts | 3                  | 材料 Material                 | 聚甲醛 Delrin acetal        |
| 材料 Material                      | 聚碳酸酯 Polycarbonate | 颜色 Colour                   | 黑色 Black                 |
| 工作温度范围 Limiting temperatures     | -40°C ...+80°C     | 软管连接 Tube termination       |                          |
| 依据 UL94 阻燃等级 Flammability        | V0                 | - 内径 Internal diameter (ID) | 1.6mm / 1/16"            |
| 可拔插次数 Mating cycles              | ≥ 500              |                             | 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         |

# 高压气动模块 PNEUMATIC MODULAR

|   |  | 型号 Type | 订货号 Part No. | 尺寸图 Drawing (mm) |
|---|--|---------|--------------|------------------|
| 适用 6.0 mm 气嘴<br>(气嘴请单独订购 Order contacts separately) |  | HM-PAM2 | 5140023501   |                  |

## 气嘴 Pneumatic contacts

适用于软管内径 For tube internal diameter  $\varnothing 6.0\text{mm}$

|  | 描述                      | ID (mm)           | 型号 Type         | 订货号 Part No. | 尺寸图 Drawing (mm) |
|--|-------------------------|-------------------|-----------------|--------------|------------------|
|  | 无锁止<br>Without shut off | $\varnothing 6.0$ | PENU-PAM2-6.0M  | 5140006306   | M<br>            |
|  | 无锁止<br>Without shut off | $\varnothing 6.0$ | PENU-PAM2-6.0F  | 5140006406   | F<br>            |
|  | 带锁止<br>With shut off    | $\varnothing 6.0$ | PENU-PAM2-6.0FW | 5140006416   |                  |

HM 模块系列

|   |  | 型号 Type | 订货号 Part No. | 尺寸图 Drawing (mm) |
|---|--|---------|--------------|------------------|
| 适用 4.0 mm 气嘴<br>(气嘴请单独订购 Order contacts separately) |  | HM-PAM3 | 5140033501   |                  |

## 气嘴 Pneumatic contacts

适用于软管内径 For tube internal diameter  $\varnothing 4.0\text{mm}$

|  | 描述                      | ID (mm)           | 型号 Type         | 订货号 Part No. | 尺寸图 Drawing (mm) |
|--|-------------------------|-------------------|-----------------|--------------|------------------|
|  | 无锁止<br>Without shut off | $\varnothing 4.0$ | PENU-PAM3-4.0M  | 5140006304   | M<br>            |
|  | 无锁止<br>Without shut off | $\varnothing 4.0$ | PENU-PAM3-4.0F  | 5140006404   | F<br>            |
|  | 带锁止<br>With shut off    | $\varnothing 4.0$ | PENU-PAM3-4.0FW | 5140006414   |                  |

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

### 1 插芯 Inserts

|                                  |                       |
|----------------------------------|-----------------------|
| 插件件针数 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                           | 50 $\Omega$              |
| -D 型 Quintax 针                           | 75 $\Omega$              |
| 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

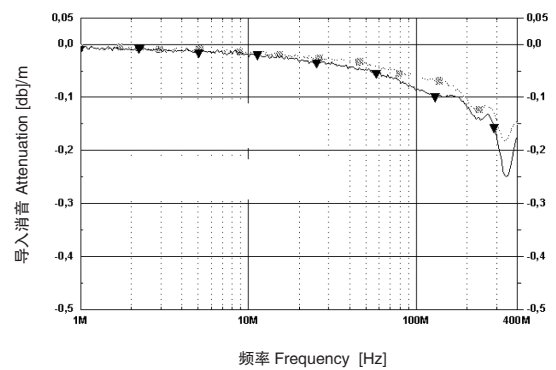
|                         |                           |
|-------------------------|---------------------------|
| 材料 Material             | 铜合金 Copper alloy          |
| 表面处理 Surface            | 镀金 Hard-gold plated       |
| 接触电阻 Contact resistance | $\leq 3 \text{ m}\Omega$  |
| 冷压连接 Crimp terminal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

### 特征 Features

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

### 传输特性 Transmission characteristics

#### 阻抗 Impedance 75 $\Omega$



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

#### 阻抗 Impedance 50 $\Omega$

|   |         |         |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|---------|---------|
| 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-Q 电磁屏蔽模块 ELECTROMAGNETIC SHIELDING MODULE

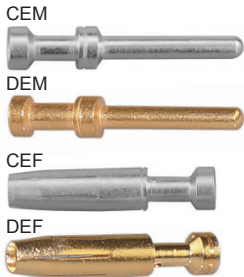
|  | 型号 Type       | 订货号 Part No.     |                    | 尺寸图 Drawing (mm) |
|--|---------------|------------------|--------------------|------------------|
|  |               | 公接插针 Male insert | 母接插针 Female insert |                  |
| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | HM-Q2-M       | 5140023001       |                    |                  |
|  | HM-Q2-F       |                  | 5140023101         |                  |
| 额定电流 Rated current: 10A<br>线规 Wire gauge: 0.14-2.5mm <sup>2</sup>                                |               |                  |                    |                  |
| 接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | Quintax-001-M | 5150013023       |                    |                  |
|  | Quintax-001-F |                  | 5150013123         |                  |
| 额定电流 Rated current: 16A<br>线规 Wire gauge: 0.5-4.0mm <sup>2</sup>                                 |               |                  |                    |                  |

HM 模块系列

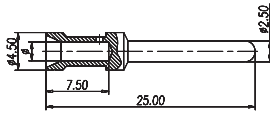
## 16A 插针 Contacts

### 技术参数 Technical data

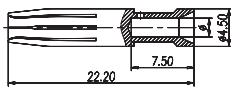
材质: 铜镀银 / 金  
 Material: Copper, hard silver / gold plated  
 接触电阻 Contact resistance:  $\leq 1\text{m}\Omega$   
 接线形式: 冷压接线  
 Termination methods: Crimp connection



16A 公插针 Male



16A 母插针 Female



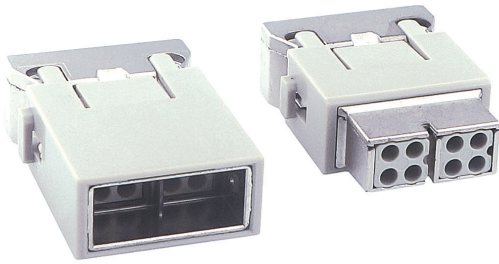
| 线径 (mm <sup>2</sup> )<br>Wire gauge | 接线长度<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated |              | 镀金冷压针 Crimp contacts, gold-plated |              |            |
|-------------------------------------|--------------------------|-------------------------------------|--------------|-----------------------------------|--------------|------------|
|                                     |                          | 型号 Type                             | 订货号 Part No. | 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 | 接线长度<br>Stripping length | 镀银冷压针 Crimp contacts, silver-plated |              | 镀金冷压针 Crimp contacts, gold-plated |              |            |
|-------------------------------------|--------------------------|-------------------------------------|--------------|-----------------------------------|--------------|------------|
|                                     |                          | 型号 Type                             | 订货号 Part No. | 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 |





# Ethernet Cat. 5e 模块 MODULE



|   | 型号 Type   | 订货号 Part No.     |                    | 尺寸图 Drawing (mm) |
|---|---|------------------|--------------------|------------------|
|   |   | 公接插针 Male insert | 母接插针 Female insert |                  |
| Ethernet Cat. 5e 模块<br>接线方式: 冷压针压接<br>Termination methods: Crimp terminal<br>(冷压针请单独订购 Order crimp contacts separately) | 屏蔽金属框<br>Shielding metal frame<br>HM-M8-M   | 5140083016       |                    |                  |
|   | 屏蔽金属框<br>Shielding metal frame<br>HM-M8-F   |                  | 5140083116         |                  |
|   | 屏蔽金属框含 2x4 接插体<br>2x4 contacts with additional shield connection to the hinged frame<br>HM-M8-MSH | 5140083216       |                    |                  |
|   | 屏蔽金属框含 2x4 接插体<br>2x4 contacts with additional shield connection to the hinged frame<br>HM-M8-FSH |                  | 5140083316         |                  |
| 模块 Module   | HM-MB-MI  | 5140013011       |                    |                  |
|   | HM-MB-FI  |                  | 5140013111         |                  |
| 线箱 Cable clamp  | HM-CC 5-7   | 5030000141       |                    |                  |
|   | HM-CC 7-10  | 5030000044       |                    |                  |
|   | HM-CC 10-12   | 5030000143       |                    |                  |

## 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

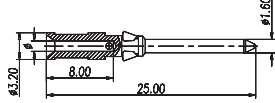
DDM



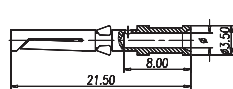
DDF



10A 公插针 Male



10A 母插针 Female



| 线径 Wire gauge(mm <sup>2</sup> ) | 接线长度 Stripping length | 型号 Type | 订货号 Part No. |            |
|---------------------------------|-----------------------|---------|--------------|------------|
| 0.14-0.37                       | AWG26-22              | 8.0mm   | DDM-0.37     | 3150006124 |
| 0.5                             | AWG20                 | 8.0mm   | DDM-0.5      | 3150006123 |
| 0.75                            | AWG18                 | 8.0mm   | DDM-0.75     | 3150006125 |
| 1.0                             | AWG18                 | 8.0mm   | DDM-1.0      | 3150006122 |
| 1.5                             | AWG16                 | 8.0mm   | DDM-1.5      | 3150006121 |
| 2.5                             | AWG14                 | 8.0mm   | DDM-2.5      | 3150006126 |


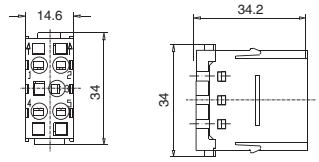
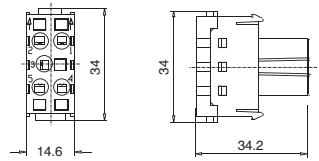
  

| 线径 Wire gauge(mm <sup>2</sup> ) | 接线长度 Stripping length | 型号 Type | 订货号 Part No. |            |
|---------------------------------|-----------------------|---------|--------------|------------|
| 0.14-0.37                       | AWG26-22              | 8.0mm   | DDF-0.37     | 3150006224 |
| 0.5                             | AWG20                 | 8.0mm   | DDF-0.5      | 3150006223 |
| 0.75                            | AWG18                 | 8.0mm   | DDF-0.75     | 3150006225 |
| 1.0                             | AWG18                 | 8.0mm   | DDF-1.0      | 3150006222 |
| 1.5                             | AWG16                 | 8.0mm   | DDF-1.5      | 3150006221 |
| 2.5                             | AWG14                 | 8.0mm   | DDF-2.5      | 3150006226 |

# HM-005 模块连接器 MODULAR CONNECTORS



额定电流 Rated current: 16A 额定电压 Rated voltage: 400V

|   | 型号 Type   | 公接插针 Male insert | 母接插针 Female insert | 尺寸图 Drawing (mm)  |
|---|-----------|------------------|--------------------|---|
| 接线方式: 弹片压接 / 快速压接<br>Termination methods: Quick Lock/Cage-clamp terminal<br><br> | HM-005-MS | 5140052616       |                    |  |
|   | HM-005-FS |                  | 5140052716         |  |

## 技术参数 Technical characteristics

### 1 插芯 Inserts

|                                       |                      |
|---------------------------------------|----------------------|
| 接插件针数 Inserts/Number of contacts      | 5                    |
| 依据 DIN EN 61984 的电气数据 Electrical data |                      |
| - 额定电流 Rated current                  | 16A                  |
| - 额定电压 Rated voltage                  | 400V                 |
| - 额定脉冲电压 Rated impulse voltage        | 6kV                  |
| - 污染程度 Pollution degree               | 3                    |
| 依据 UL 的额定电压 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°C ... +125°C     |
| 依据 UL94 阻燃等级 Flammability             | V0                   |
| 可拔插次数 Mating cycles                   | $\geq 500$           |

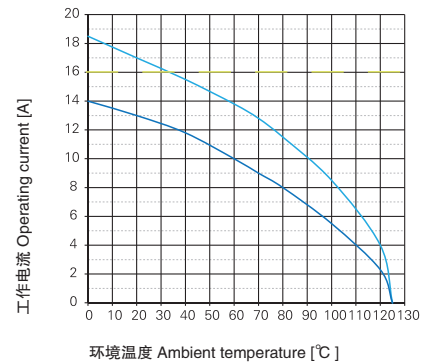
### 2 插针 Contacts

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

### 电流负载能力 Current carrying capacity

电流负载能力所受的限制主要来自包含接插针的接插体可承受的最大温度测试和控制过程依据 DIN EN 60512-5

Current load capacity, mainly from the restrictions include plug the plug of the needle body can withstand maximum temperature Testing and control process according to DIN EN 60512-5



— 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 2.5 mm<sup>2</sup>  
 — 24B 外壳 带 6 个模块, 导线截面 Wire gauge: 1.5 mm<sup>2</sup>