

Heavy-Duty Connector

Chapter Summary

Module Overview

 H2MK-001-M H2MK-001-F	Insert	200A Axial module
	Contacts	1
	Terminal	Axial screw terminal
	Rated Current	200A
	Rated Voltage	1000V
 H2MK-001-MC H2MK-001-FC	Insert	200A Crimp module
	Contacts	1
	Terminal	Crimp terminal
	Rated Current	200A
	Rated Voltage	1000V
 HMK-001-MC HMK-001-FC	Insert	100A Crimp module
	Contacts	1
	Terminal	Crimp terminal
	Rated Current	100A
	Rated Voltage	830V
 H2MK-002-M H2MK-002-F	Insert	100A Axial module
	Contacts	2
	Terminal	Axial Screw terminal
	Rated Current	100A
	Rated Voltage	1000V
 H2MK-002-MC H2MK-002-FC	Insert	100A Crimp module
	Contacts	2
	Terminal	Crimp terminal
	Rated Current	100A
	Rated Voltage	1000V
 HMK70-002-M HMK70-002-F	Insert	70A Axial module
	Contacts	2
	Terminal	Axial Screw terminal
	Rated Current	70A
	Rated Voltage	1000V
 HMK70-002-MC HMK70-002-FC	Insert	70A Crimp module
	Contacts	2
	Terminal	Crimp terminal
	Rated Current	70A
	Rated Voltage	1000V
 HMK-002-M HMK-002-F	Insert	40A Axial module
	Contacts	2
	Terminal	Axial Screw terminal
	Rated Current	40A
	Rated Voltage	1000V
 HMK-002-MC HMK-002-FC	Insert	40A Crimp module
	Contacts	2
	Terminal	Crimp terminal
	Rated Current	40A
	Rated Voltage	1000V
 HMK-003-M HMK-003-F	Insert	40A Axial module
	Contacts	3
	Terminal	Axial Screw terminal
	Rated Current	40A
	Rated Voltage	690V
 HMK-003-MC HMK-003-FC	Insert	40A Crimp module
	Contacts	3
	Terminal	Crimp terminal
	Rated Current	40A
	Rated Voltage	500V
 HMK-003/4-MC HMK-003/4-FC	Insert	40/10A Axial module
	Contacts	3/4
	Terminal	Crimp terminal
	Rated Current	40A/10A
	Rated Voltage	830V
 HMK-003/4-MC HMK-003/4-FC	Insert	40/10A Axial module
	Contacts	3/4
	Terminal	Crimp terminal
	Rated Current	40A/10A
	Rated Voltage	830V

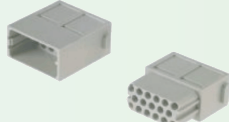


Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

Chapter Summary

Module Overview

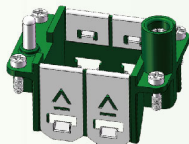
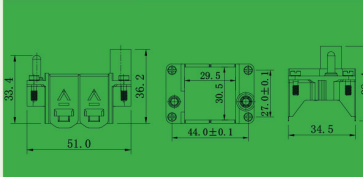
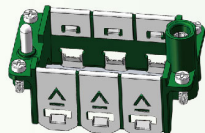
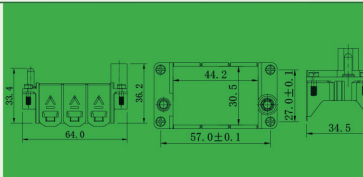
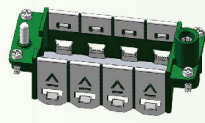
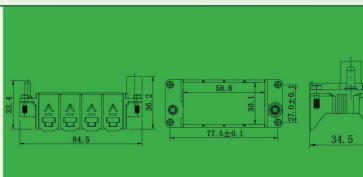
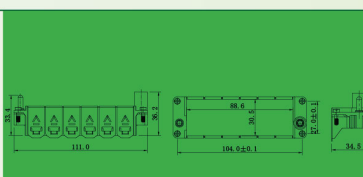
 HMK-004-MC HMK-004-FC	Insert	40A Crimp module	 HME-005-MS HME-005-FS	Insert	16A Cage-clamp module
	Contacts	4		Contacts	nothing
	Terminal	Crimp terminal		Terminal	Cage clamp terminal
	Rated Current	40A		Rated Current	16A
	Rated Voltage	830V		Rated Voltage	400V
	Wire gauge	1.5-6mm ²		Wire gauge	0.14-2.5mm ²
 HME-006-MC HME-006-FC	Insert	16A Crimp module	 HVME-006-MC HVME-006-FC	Insert	16A Protected module
	Contacts	6		Contacts	6
	Terminal	Crimp terminal		Terminal	Crimp terminal
	Rated Current	16A		Rated Current	16A
	Rated Voltage	500V		Rated Voltage	830V
	Wire gauge	0.14-4mm ²		Wire gauge	0.14-4mm ²
 HMEE-008-MC HMEE-008-FC	Insert	16A Crimp module	 H2MEE-020-MC H2MEE-020-FC	Insert	16A Crimp module
	Contacts	8		Contacts	20
	Terminal	Crimp terminal		Terminal	Crimp terminal
	Rated Current	16A		Rated Current	16A
	Rated Voltage	400V		Rated Voltage	500V
	Wire gauge	0.14-4mm ²		Wire gauge	0.14-4mm ²
 HMD-012-MC HMD-012-FC	Insert	10A Fragment type connection	 HMDD-017-MC HMDD-017-FC	Insert	10A Crimp module
	Contacts	Pin free		Contacts	17
	Terminal	Shrapnel connection		Terminal	Crimp terminal
	Rated Current	10A		Rated Current	10A
	Rated Voltage	250V		Rated Voltage	160V
	Wire gauge	0.14-4mm ²		Wire gauge	0.14-2.5mm ²
 HMDS-009-MC HMDS-009-FC	Insert	5A D-sub module	 HMDS-025-MC HMDS-025-FC	Insert	4A High Density module
	Contacts	9		Contacts	25
	Terminal	Crimp terminal		Terminal	Crimp terminal
	Rated Current	5A		Rated Current	4A
	Rated Voltage	50V		Rated Voltage	50V
	Wire gauge	0.09-0.82mm ²		Wire gauge	0.09-0.52mm ²
 HM-RJ45-M HM-RJ45-F	Insert	1A RJ45 module	Pneumatic module 2		
	Contacts	8	 HMP-002 Φ 6mm HMP-003		
	Terminal	Module for patch cable			
	Rated Current	1A			
	Rated Voltage	50V			
	Wire gauge				
			Pneumatic module 3		
			 Φ 1.6mm Φ 3.0mm Φ 4.0mm		

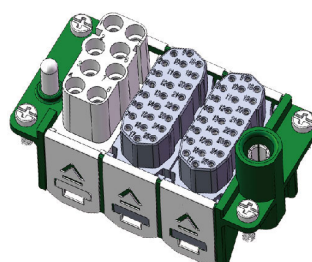
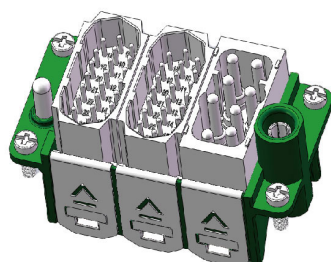


Heavy-Duty Connector

Chapter Summary

Structural Frame Type

6B frame,size 6B hoods/housings				
	Description	Marking	Type	
	for 2 modules	A-B	HF6B-NUA3	
	for 2 modules	a-b	HF6B-NLA3	
10B frame,size 10B hoods/housings				
	Description	Marking	Type	
	for 3 modules	A-C	HF10B-NUA3	
	for 3 modules	a-c	HF10B-NLA3	
16B frame,size 16B hoods/housings				
	Description	Marking	Type	
	for 4 modules	A-D	HF16B-NUA3	
	for 4 modules	a-d	HF16B-NLA3	
24B frame,size 24B hoods/housings				
	Description	Marking	Type	
	for 6 modules	A-F	HF24B-NUA3	
	for 6 modules	a-f	HF24B-NLA3	
Filling module				
	Description	Type		
	Used to fill the fixed frame Remaining module space	HM-000		



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

H2MK-001

H2MK-001 Parameters Of Axial Crimping Module

standard

DIN EN 60 664
DIN EN 61 984

Insert

※Number of connector pins 1
 ※Rated voltage according to EN61 984
 ※Rated current 200A
 ※Rated voltage 1000V
 ※Rated impulse voltage 8KV
 ※Pollution degree 3
 ※According to UL/CSA rated voltage 600V
 ※Insulation resistance $\geq 10^{10} \Omega$
 ※Material Science Polycarbonate
 ※Operating temperature range $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
 ※Flame retardant grade V0
 ※Pluggable times ≥ 500

Pin

※Material Science copper alloy
 ※surface treatment plate with silver
 ※contact resistance $0.2\text{m}\Omega$
 ※Cable strands according to IEC 60 228-5
 ※Axial screw connection
 mm² 25-70mm²
 AWG 2-0

inner hexagon spanner
Strip length

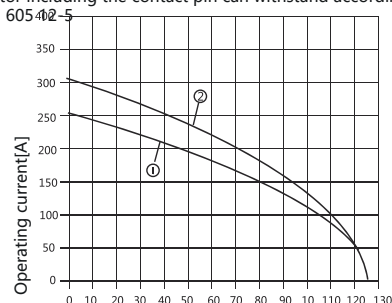
SW5
16mm

mm²
Nm

25 35 50 70
8 8 9 10

Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 60542-5



Ambient temperature[°C]

①24B enclosure with 3 modules, conductor section:50mm²
 ②enclosure with 3 modules, conductor section:70mm²

H2MK-001 Axial Crimp Type Module

Product Picture

Form

Product Size

Axial crimping

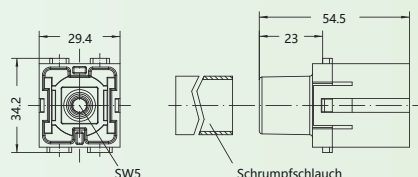


H2MK-001.1-M(25-40mm²)
 H2MK-001.2-M(40-70mm²)

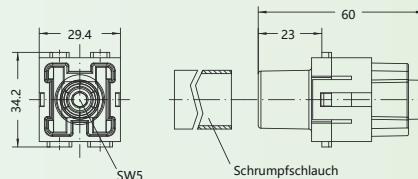


H2MK-001.1-F(25-40mm²)
 H2MK-001.2-F(40-70mm²)

M



F



Pump Accessories

tools

Hexagonal Driver



Description

For Axial Setscrew
With Grip

Type

BS-5C150



Heavy-Duty Connector

H2MK-001

H2MK-001 Parameters Of Cold Pressed Module

Standard

DIN EN 60 664
DIN EN 61 984

Plug

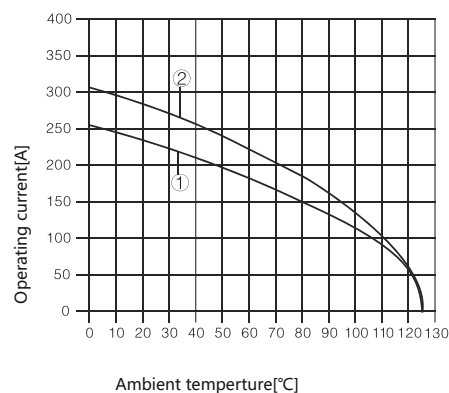
※Number of pins for plug-in	1
※According to rated voltage of EN61 984	
※Rated Current	200A
※Rated voltage	1000V
※Rated Pulse Voltage	8KV
※Pollution Level	3
※insulation resistance	$\geq 10^{10}\Omega$
※Material Science	Polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame Retardant Level	V0
※Pluggable Count	≥ 500

Pin

※Material Science	Copper alloy
※surface treatment	plate with silver
※contact resistance	0.3mΩ
※Cold pressure connection	
mm ²	25-70mm ²
Strip length	22.5mm
Maximum cable diameter	18mm

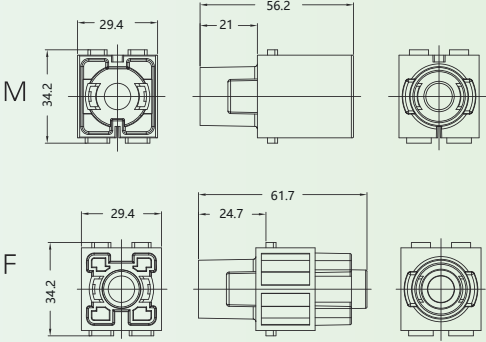
Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5



①24B enclosure with 3 modules, conductor section:50mm²
②24B enclosure with 3 modules, conductor section:70mm²

H2MK-001 Cold Pressed Module

Product Picture	Form	Product Size
Cold pressed connection  	H2MK-001-MC H2MK-001-FC	

200ACold Pressing Pins

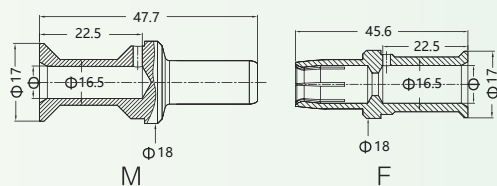


plate with silver

Cable section	Strip length	Φ	Female needle model	Male needle model
25mm ²	22.5mm	7	CHSF200-25	CHSM200-25
35mm ²	22.5mm	8.2	CHSF200-35	CHSM200-35
50mm ²	22.5mm	10	CHSF200-50	CHSM200-50
70mm ²	22.5mm	11.5	CHSF200-70	CHSM200-70



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Heavy-Duty Connector

HMK-001

HMK-001 Parameters Of cold Pressed Module

standard

DIN EN 60 664
DIN EN 61 984

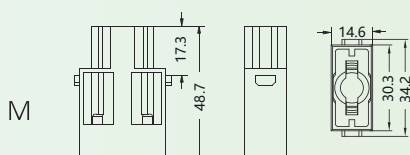
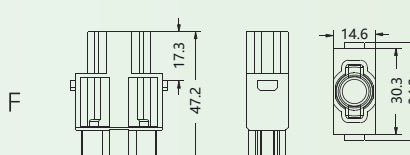
Insert

※Number of connector pins	1
※Rated voltage according to EN61 984	
※Rated current	100A
※Rated voltage	830V
※Rated impulse voltage	8KV
※Pollution degree	3
※insulation resistance	$\geq 10^{10}\Omega$
※Material Science	Polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500

Pin

※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	$\leq 0.3m\Omega$
※Cold pressed connection	
mm ²	10-35mm ²
Maximum cable diameter	13mm

HMK-001 Cold Pressed Module

Product Picture	Form	Product Size
	HMK-001-MC	
	HMK-001-FC	

100A Cold Pressing Pins

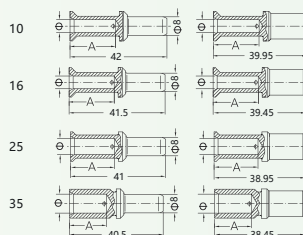


plate with silver

Cable section	Strip length	Φ	Female needle model	Male needle model
10mm ²	19mm	4.3	CKSF-10	CKSM-10
16mm ²	19mm	5.5	CKSF-16	CKSM-16
25mm ²	19mm	7	CKSF-25	CKSM-25
35mm ²	19mm	8.2	CKSF-35	CKSM-35



Heavy-Duty Connector

H2MK-002

H2MK-002 Parameters Of axial Crimping Module

standard

DIN EN 60 664
DIN EN 61 984

Insert

※Number of connector pins	2
※Rated voltage according to EN61 984	
※Rated current	100A
※Rated voltage	1000V
※Rated impulse voltage	8KV
※Pollution degree	3
※Rated voltage according to UL	600V
※Insulation resistance	$\geq 10^{10} \Omega$
※Material Science	Polycarbonate
※Operating temperature range	-40°C ~ +125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500

Pin

※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	0.3mΩ
※Cable strand according to IEC 60 228-5	
strand according to IEC 60 228-5	10-38mm ²
※Axial screw connection	6-2
mm ²	
AWG	

Strip length

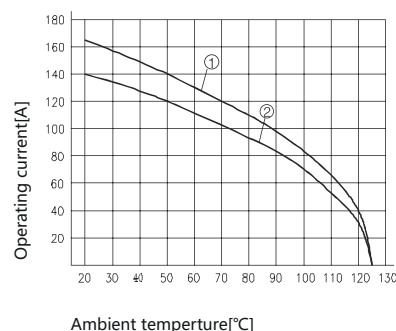
SW4
13mm

mm²
Nm

10 16 25 35
6 6 7 8

Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5



①24B enclosure with 3 modules, conductor section:35mm²
②24B enclosure with 3 modules, conductor section:25mm²

H2MK-002 Axial Crimp Type Module

Product Picture

Axial crimping

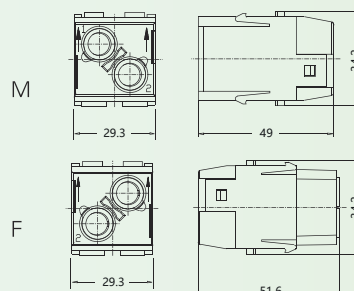


Form

H2MK-002.1-M(10-25mm²)
H2MK-002.2-M(16-35mm²)
H2MK-002.1-M(38mm²)

H2MK-002.1-F(10-25mm²)
H2MK-002.2-F(16-35mm²)
H2MK-002.1-F(38mm²)

Product Size



Pump Accessories

Cable shoe 16mm²

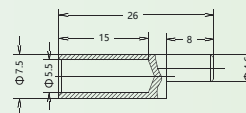


Description

For PE extension

Form Type

PE-E16



Tools

Hexagonal driver



Description

For Axial Setscrew
With Grip

Form Type

BS-4C150



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

H2MK-002

H2MK-002 Parameters Of Cold Pressed Module

standard

DIN EN 60 664
DIN EN 61 984

Insert

※Number of connector pins	2
※Rated voltage according to EN61 984	
※Rated current	100A
※Rated voltage	1000V
※Rated impulse voltage	8KV
※Pollution degree	3
※insulation resistance	$\geq 10^{10}\Omega$
※Material Science	polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500

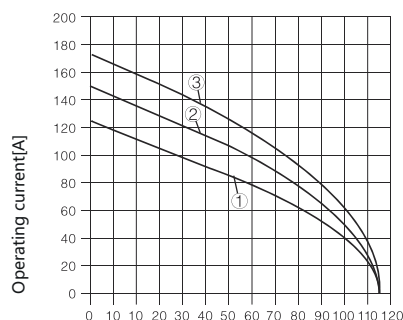
Pin

※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	$\leq 0.3m\Omega$
※Cold pressed connection	
mm ²	10-35mm ²
Maximum cable diameter	14mm

H2MK-002 Cold Pressed Module

Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5



Ambient temperture[°C]

- ①24B enclosure with 3 modules, conductor section:16mm²
②24B enclosure with 3 modules, conductor section:25mm²
③24B enclosure with 3 modules, conductor section:35mm²

Product Picture

Form

Product Size

Cold pressed connection

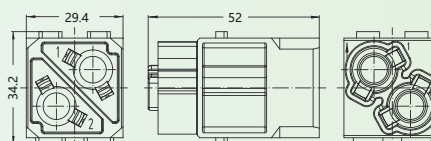


H2MK-002-MC

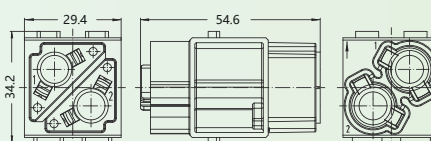


H2MK-002-FC

M



F



100ACold Pressing Pins

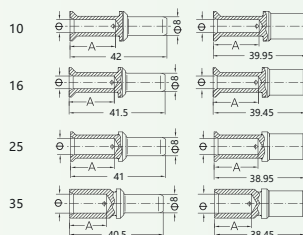


plate with silver

Cable section	Strip length	Φ	Female needle model	Male needle model
10mm ²	19mm	4.3	CKSF-10	CKSM-10
16mm ²	19mm	5.5	CKSF-16	CKSM-16
25mm ²	19mm	7	CKSF-25	CKSM-25
35mm ²	19mm	8.2	CKSF-35	CKSM-35



Heavy-Duty Connector

HMK70-002

HMK70-002 Parameters Of axial Crimping Module

standard

DIN EN 60 664
DIN EN 61 984

Insert

※Number of connector pins 2
 ※Rated voltage according to EN61 984
 ※Rated current 70A
 ※Rated voltage 1000V
 ※Rated impulse voltage 8KV
 ※Pollution degree 3
 ※basisUL/CSARated voltage 600V
 ※insulation resistance $\geq 10^{10}\Omega$
 ※Material Science Polycarbonate
 ※Operating temperature range $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$
 ※Flame retardant grade V0
 ※Pluggable times ≥ 500

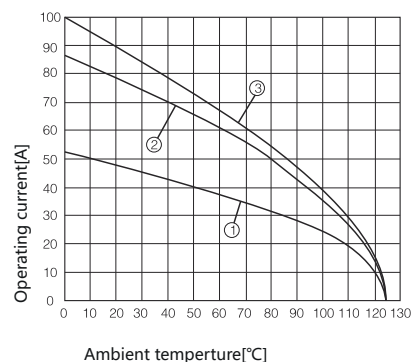
Pin

※Material Science copper alloy
 ※surface treatment plate with silver
 ※contact resistance $0.5\text{m}\Omega$
 ※Cable strands according to IEC 60 228-5
 ※Axial screw connection
 mm² 6-22mm²
 AWG 8-4

Strip length		SW2.5			
mm ²	6	10	16	22	
mm	11	11	11	12.5	
mm ²	6	10	16	22	
Nm	2	3	4	5	

Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5



Ambient temperature[°C]

①24B enclosure with 6 modules, conductor section:6mm²
 ②24B enclosure with 6 modules, conductor section:16mm²
 ③24B enclosure with 6 modules, conductor section:22mm²

HMK70-002 Axial Crimp Type Module

Product Picture

Axial crimping

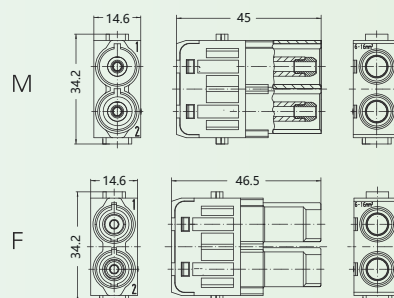


Form

HMK70-002.1-M(6-16mm²)
 HMK70-002.2-M(14-22mm²)

HMK70-002.1-F(6-16mm²)
 HMK70-002.2-F(14-22mm²)

Product Size



Pump Accessories

tools

Hexagonal Driver



Description

For Axial Setscrew
With Grip

Form Type

BS-2C40



Communicate Now

Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

HMK70-002

HMK70-002 Parameters Of Cold Pressed Module

standard

DIN EN 60 664
DIN EN 61 984

Insert

※Number of connector pins	2
※Rated voltage according to EN61 984	
※Rated current	70A
※Rated voltage	1000V
※Rated impulse voltage	8KV
※Pollution degree	3
※basisUL/CSARated voltage	600V
※insulation resistance	$\geq 10^{10} \Omega$
※Material Science	Polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500

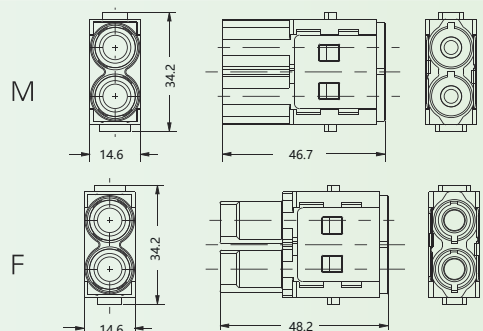
Pin

※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	$\leq 0.5m\Omega$
※Cold pressed connection	
mm ²	10-25mm ²
※Strip length	15.5mm
※Maximum cable diameter	11mm

Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5

HMK70-002 Cold Pressed Module

Product Picture	Form	Product Size
Cold crimping  	HMK70-002-MC HMK70-002-FC	

70A Cold pressing pins

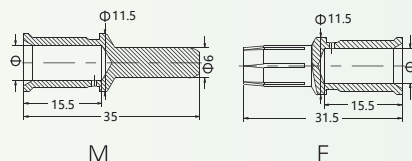


plate with silver

Cable section	Strip length	Φ	Female needle model	Male needle model
10mm ²	15.5mm	4.3	CKSF70-10	CKSM70-10
16mm ²	15.5mm	5.5	CKSF70-16	CKSM70-16
25mm ²	15.5mm	7	CKSF70-25	CKSM70-25



Heavy-Duty Connector

HMK-002

HMK-002 Parameters Of Sxial Crimping Module

standard

DIN EN 60 664
DIN EN 61 984

Insert

※Number of connector pins	2
※Rated voltage according to EN61 984	
※Rated current	40A
※Rated voltage	1000V
※Rated impulse voltage	8KV
※Pollution degree	3
※basisUL/CSARated voltage	600V
※insulation resistance	$\geq 10^{10} \Omega$
※Material Science	Polycarbonate
※Operating temperature range	-40°C ~ +125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500

Pin

※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	0.5mΩ
※Cable strands according to IEC 60 228-5	
※Axial screw connection	
mm ²	25-10mm ²
AWG	14-8

inner hexagon spanner

SW2

Strip length

mm² 2.5 4 6 10

mm 5 5 8 11

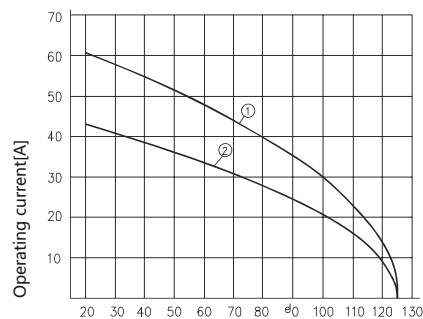
Tightening torque

mm² 2.5 4 6 10

Nm 1.5 1.5 2 2

Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5



Ambient temperature [°C]

①24B enclosure with 6 modules, conductor section: 10mm²

②24B enclosure with 6 modules, conductor section: 6mm²

HMK-002 Axial Crimp Type Module

Product Picture

Axial crimping

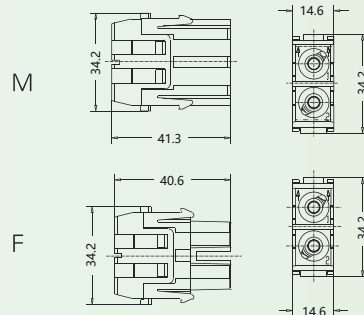


HMK-002.1-M (2.5-8mm²)
HMK-002.2-M (6-10mm²)

HMK-002.1-F (2.5-8mm²)
HMK-002.2-F (6-10mm²)

Form

Product Size



Pump Accessories

tools

Hexagonal Driver



Description

For Axial Setscrew
With Grip

Form Type

BS-2C40



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

HMK-002

HMK-002 Parameters Of Cold Pressed Module

standard

DIN EN 60 664
DIN EN 61 984

Insert

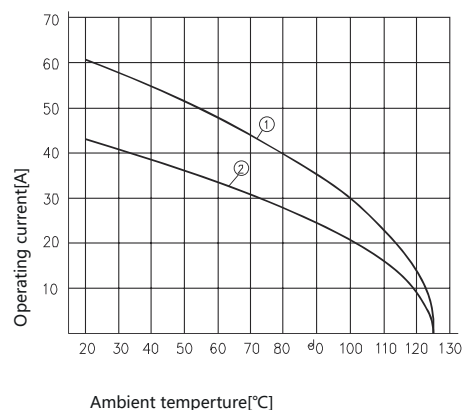
※Number of connector pins	2
※Rated voltage according to EN61 984	
※Rated current	40A
※Rated voltage	1000V
※Rated impulse voltage	8KV
※Pollution degree	3
※insulation resistance	$\geq 10^{10}\Omega$
※Material Science	Polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500

Pin

※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	$\leq 0.3m\Omega$
※Cold pressed connection	
mm ²	1.5-10mm ²
AWG	16-8

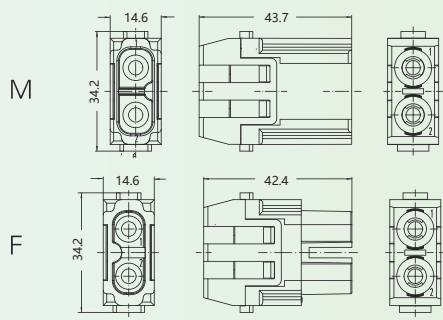
Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5



- ① 24B enclosure with 6 modules,
conductor section: 10mm²
② 24B enclosure with 6 modules,
conductor section: 6mm²

HMK-002 Cold Pressed Module

Product Picture	Form	Product Size
Cold crimping  	HMK-002-MC HMK-002-FC	

40A Cold Pressing Pins

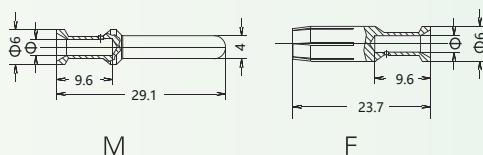


plate with silver

Cable section		Strip length	Φ	Female needle model	Male needle model
1.5mm²	AWG 16	9mm	1.75	CCSF-1.5	CCSM-1.5
2.5mm²	AWG 14	9mm	2.25	CCSF-2.5	CCSM-2.5
4mm²	AWG 12	9.6mm	2.85	CCSF-4.0	CCSM-4.0
6mm²	AWG 10	9.6mm	3.5	CCSF-6.0	CCSM-6.0



Heavy-Duty Connector

HMK-003

HMK-003 Parameters Of axial Crimping Module

standard

DIN EN 60 664
DIN EN 61 984

Insert

※Number of connector pins 3
 ※Rated voltage according to EN61 984
 ※Rated current 40A
 ※Rated voltage 690V
 ※Rated impulse voltage 8KV
 ※Pollution degree 3
 ※basisUL/CSARated voltage 600V
 ※insulation resistance $\geq 10^{10}\Omega$
 ※Material Science Polycarbonate
 ※Operating temperature range $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
 ※Flame retardant grade V0
 ※Pluggable times ≥ 500

Pin

※Material Science copper alloy
 ※surface treatment plate with silver
 ※contact resistance $0.3\text{m}\Omega$
 ※Cable strands according to IEC 60 228-5
 ※Axial screw connection
 mm² 25-10mm²
 AWG 14-8

inner hexagon spanner

SW2

Strip length

mm² 2.5 4 6 10

mm 5 5 8 11

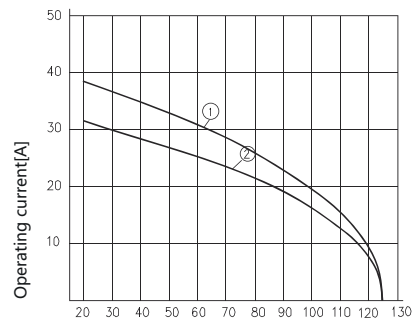
Tightening torque

mm² 2.5 4 6 10

Nm 1.5 1.5 2 2

Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5



Ambient temperature[°C]

①24B enclosure with 6 modules, conductor section: 6mm²

②24B enclosure with 6 modules, conductor section: 4mm²

HMK-003 Axial Crimp Type Module

Product Picture

Axial crimping

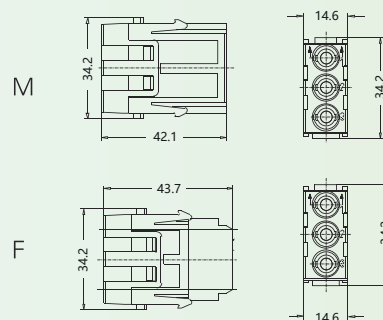


Form

HMK-003.1-M(2.5-8mm²)
HMK-003.2-M(6-10mm²)

HMK-003.1-F(2.5-8mm²)
HMK-003.2-F(6-10mm²)

Product Size



Pump Accessories

tools

Hexagonal Driver



Description

For Axial Setscrew
With Grip

Form Type

BS-2C40



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

HMK-003

HMK-003 Cold Pressed Module Parameter

standard

DIN EN 60 664
DIN EN 61 984

Insert

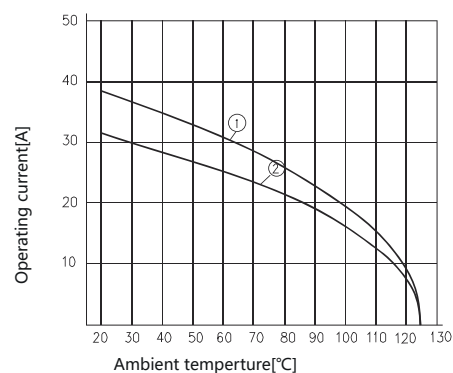
※Number of connector pins	3
※Rated voltage according to EN61 984	
※Rated current	40A
※Rated voltage	400/690V
※Rated impulse voltage	6KV
※Pollution degree	3
※basisUL/CSA的Rated voltage	600V
※basisUL/CSA的Rated current	32A
※insulation resistance	$\geq 10^{10}\Omega$
※Material Science	polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500

Pin

※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	$\leq 0.3m\Omega$
※Cold pressed connection	
mm ²	1.5-10mm ²
AWG	16-8

Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5



①24B enclosure with 6 modules, conductor section:6mm²

②24B enclosure with 6 modules, conductor section:4mm²

HMK-003 Cold Pressed Module

Product Picture	Form	Product Size
	HMK-003-MC HMK-003-FC	

40ACold Pressing Pins

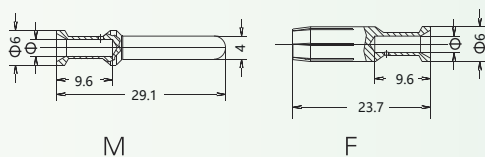


plate with silver

Cable section		Strip length	Φ	Female needle model	Male needle model
1.5mm²	AWG 16	9mm	1.75	CCSF-1.5	CCSM-1.5
2.5mm²	AWG 14	9mm	2.25	CCSF-2.5	CCSM-2.5
4mm²	AWG 12	9.6mm	2.85	CCSF-4.0	CCSM-4.0
6mm²	AWG 10	9.6mm	3.5	CCSF-6.0	CCSM-6.0



Heavy-Duty Connector

HMK-003/4

HMK-003/4 Cold Pressed

standard

DIN EN 60 664
DIN EN 61 984

Insert

- ※Number of connector pins 3/4
- ※Rated voltage according to EN61 984
- ※Power area
 - Rated current 40A
 - Rated voltage 830V
 - Rated impulse voltage 8KV
 - Pollution degree 3
- ※Signal area
 - Rated current 10A
 - Rated voltage 830V
 - Rated impulse voltage 8KV
 - Pollution degree 3
- ※Rated voltage according to UI600V
- ※insulation resistance $\geq 10^{11}\Omega$
- ※Material Science Polycarbonate
- ※Operating temperature range -40°C~+125°C
- ※Flame retardant grade V0
- ※Pluggable times ≥ 500

Pin

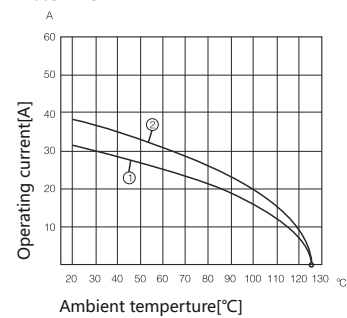
- ※Material Science copper alloy
- ※surface treatment plate with silver
gold-plated

※contact resistance

- Power area $\leq 0.3m\Omega$
- Signal area $\leq 3m\Omega$
- ※Cold pressing and cold connection
- ※mm²
 - Power area 1.5-6mm²
 - Signal area 0.14-2.5mm²
- ※AWG
 - Power area 16-10
 - Signal area 26-14
- ※Maximum cable diameter
 - Power area 5mm

Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5



- ① 24B enclosure with 6 modules, conductor section: 4mm²
- ② 24B enclosure with 6 modules, conductor section: 6mm²

HMK-003/4 Cold Pressed Module

Product Picture	Form	Product Size
Cold crimping	HMK-003/4-MC HMK-003/4-FC	

40A Cold Pressing Pins

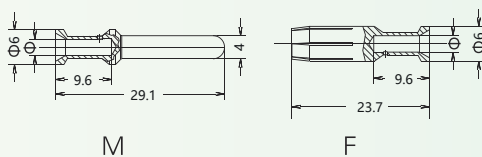


plate with silver

Cable section	Strip length	Φ	Female needle model	Male needle model
1.5mm ²	AWG 16	9mm	1.75	CCSF-1.5
2.5mm ²	AWG 14	9mm	2.25	CCSF-2.5
4mm ²	AWG 12	9.6mm	2.85	CCSF-4.0
6mm ²	AWG 10	9.6mm	3.5	CCSF-6.0



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

VELLEDQ®

HMK-004

HMK-004 Cold Pressed Module Parameter

standard

DIN EN 60 664
DIN EN 61 984

Insert

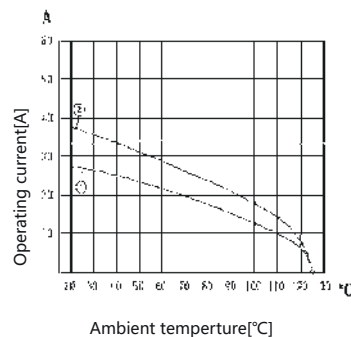
※Number of connector pins	4
※Rated voltage according to EN61 984	
※Rated current	40A
※Rated voltage	830V
※Rated impulse voltage	8KV
※Pollution degree	3
※basisUL的Rated voltage	600V
※insulation resistance	$\geq 10^{10} \Omega$
※Material Science	polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500

Pin

※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	$\leq 0.3m\Omega$
※Cold pressed connection	
mm ²	1.5-6mm ²
AWG	16-10

Current Load Capacity

The limitation of current load capacity mainly comes from the test and control process of the maximum temperature that the connector including the contact pin can withstand according to DIN EN 605 12-5



- ①24B enclosure with 6 modules, conductor section:4mm²
②24B enclosure with 6 modules, conductor section:6mm²

HMK-004 Cold Pressed Module

Product Picture	Form	Product Size
Cold crimping	HMK-004-MC	M
	HMK-004-FC	F

40ACold Pressing Pins

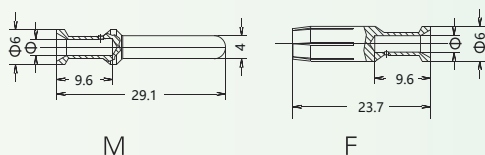


plate with silver

Cable section		Strip length	Φ	Female needle model	Male needle model
1.5mm²	AWG 16	9mm	1.75	CCSF-1.5	CCSM-1.5
2.5mm²	AWG 14	9mm	2.25	CCSF-2.5	CCSM-2.5
4mm²	AWG 12	9.6mm	2.85	CCSF-4.0	CCSM-4.0
6mm²	AWG 10	9.6mm	3.5	CCSF-6.0	CCSM-6.0



Heavy-Duty Connector

HME-005

HME-005 Parameters Of Spring Type Module

standard

DIN EN 60 664
DIN EN 61 984

Insert

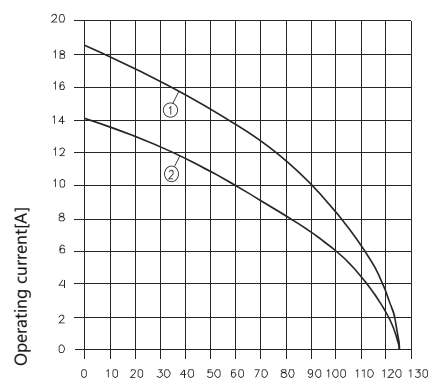
※Number of connector pins	5
※Rated voltage according to EN61 984	
※Rated current	16A
※Rated voltage	400V
※Rated impulse voltage	6KV
※Pollution degree	3
※According to UL/CSA rated voltage	600V
※Insulation resistance	$\geq 10^{10}\Omega$
※Material Science	polycarbonate
※Operating temperature range	-40°C ~ +125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500

Pin

※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	0.3mΩ
※Cable strands according to IEC 60 228-5	
※Axial screw connection	
mm²	25-10mm²
AWG	26-14

Current Load Capacity

The limitation of current load capacity mainly comes from the maximum temperature that the connector containing the contact pin can withstand Test and control process according to DIN EN 605 12-5

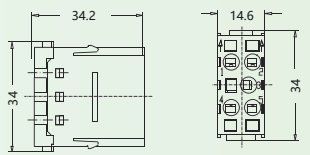
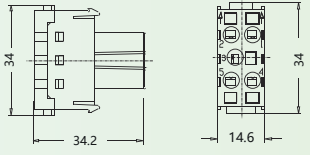


Ambient temperature[°C]

①24B enclosure with 6 modules, conductor section:2.5mm²

②24B enclosure with 6 modules, conductor section:1.5mm²

HME-005 Spring Type Module

Product Picture	Form	Product Size
Shrapnel connection 	HME-005-MS	M 
	HME-005-FS	F 



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

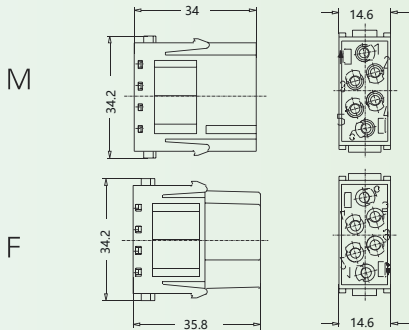
Heavy-Duty Connector

HME-006

HME-006 Parameters Of Cold Pressed Module

standard	
	DIN EN 60 664 DIN EN 61 984
Insert	
※Number of connector pins	6
※Rated voltage according to EN61 984	
※Rated current	16A
※Rated current	500V
※Rated voltage	6KV
※Rated impulse voltage	3
※Pollution degree	600V
※Insulation resistance	$\geq 10^{10}\Omega$
※Insulation resistance	polycarbonate
※Material Science	-40°C~+125°C
※Operating temperature range	V0
※Flame retardant grade	≥ 500
※Pluggable times	
Pin	
※Material Science	copper alloy
※surface treatment	plate with silver gold-plated
※contact resistance	$\leq 1\text{m}\Omega$
※Cold pressed connection	
mm ²	0.14-4mm ²
AWG	26-12

HME-006 Cold Pressed Module

Product Picture	Form	Product Size
 	HME-006-MC HME-006-FC	

16A Cold Pressing Pins

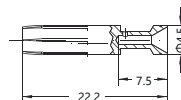
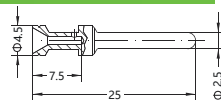


plate with silver

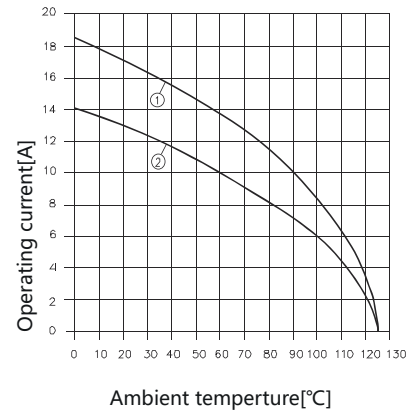
Cable section		Strip length	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	7.5mm	CESF-0.37	CESM-0.37
0.5mm ²	AWG 20	7.5mm	CESF-0.5	CESM-0.5
0.75mm ²	AWG 18	7.5mm	CESF-0.75	CESM-0.75
1.0mm ²	AWG 18	7.5mm	CESF-1.0	CESM-1.0
1.5mm ²	AWG 16	7.5mm	CESF-1.5	CESM-1.5
2.5mm ²	AWG 14	7.5mm	CESF-2.5	CESM-2.5
3.0mm ²	AWG 12	7.5mm	CESF-3.0	CESM-3.0
4.0mm ²	AWG 12	7.5mm	CESF-4.0	CESM-4.0

gold-plated

Cable section		Strip length	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	7.5mm	CEGF-0.37	CEGM-0.37
0.5mm ²	AWG 20	7.5mm	CEGF-0.5	CEGM-0.5
0.75mm ²	AWG 18	7.5mm	CEGF-0.75	CEGM-0.75
1.0mm ²	AWG 18	7.5mm	CEGF-1.0	CEGM-1.0
1.5mm ²	AWG 16	7.5mm	CEGF-1.5	CEGM-1.5
2.5mm ²	AWG 14	7.5mm	CEGF-2.5	CEGM-2.5
3.0mm ²	AWG 12	7.5mm	CEGF-3.0	CEGM-3.0
4.0mm ²	AWG 12	7.5mm	CEGF-4.0	CEGM-4.0

Current Load Capacity

The limitation of current load capacity mainly comes from the maximum temperature that the connector containing the contact pin can withstand Test and control process according to DIN EN 605 12-5



- ① 24B enclosure with 6 modules, conductor section: 2.5mm²
 ② 24B enclosure with 6 modules, conductor section: 1.5mm²



Heavy-Duty Connector

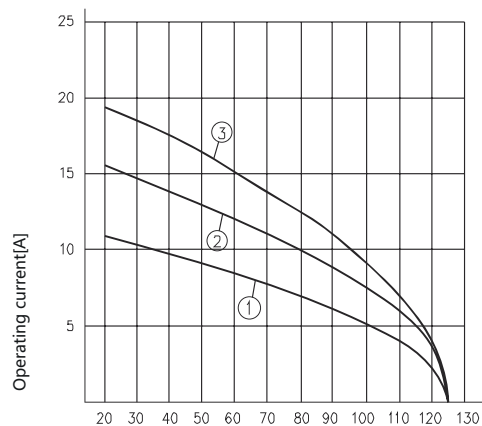
● HVME-006

HVME-006 Protective Module Parameter

standard	
DIN EN 60 664 DIN EN 61 984	
Insert	
※Number of connector pins	6
※Rated voltage according to EN61 984	
※Rated current	16A
※Rated voltage	830V
※Rated impulse voltage	8KV
※Pollution degree	3
※Rated voltage according to UL	600V
※insulation resistance	$\geq 10^{10}\Omega$
※Material Science	Polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500
Pin	
※Material Science	copper alloy
※surface treatment	plate with silver gold-plated
※contact resistance	$\leq 1\text{m}\Omega$
※Cold pressed connection	
mm ²	0.14-4mm ²
AWG	26-12

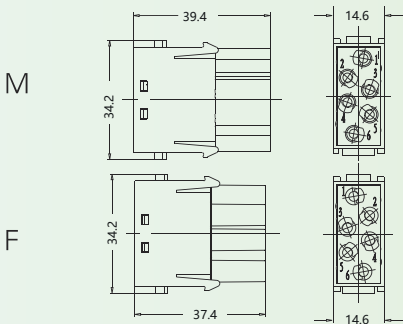
Current Load Capacity

The limitation of current load capacity mainly comes from the maximum temperature that the connector containing the contact pin can withstand Test and control process according to DIN EN 605 12-5



- ① 24B enclosure with 6 modules, conductor section:1.5mm²
 ② 24B enclosure with 6 modules, conductor section:2.5mm²
 ③ 24B enclosure with 6 modules, conductor section:4.0mm²

HVME-006 Protective Module

Product Picture	Form	Product Size
Cold crimping 	HVME-006-MC	
	HVME-006-FC	

16A Cold Pressing Pins

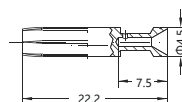
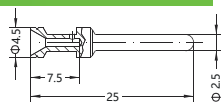


plate with silver

Cable section		Strip length	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	7.5mm	CESF-0.37	CESM-0.37
0.5mm ²	AWG 20	7.5mm	CESF-0.5	CESM-0.5
0.75mm ²	AWG 18	7.5mm	CESF-0.75	CESM-0.75
1.0mm ²	AWG 18	7.5mm	CESF-1.0	CESM-1.0
1.5mm ²	AWG 16	7.5mm	CESF-1.5	CESM-1.5
2.5mm ²	AWG 14	7.5mm	CESF-2.5	CESM-2.5
3.0mm ²	AWG 12	7.5mm	CESF-3.0	CESM-3.0
4.0mm ²	AWG 12	7.5mm	CESF-4.0	CESM-4.0

gold-plated

Cable section		Strip length	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	7.5mm	CEGF-0.37	CEGM-0.37
0.5mm ²	AWG 20	7.5mm	CEGF-0.5	CEGM-0.5
0.75mm ²	AWG 18	7.5mm	CEGF-0.75	CEGM-0.75
1.0mm ²	AWG 18	7.5mm	CEGF-1.0	CEGM-1.0
1.5mm ²	AWG 16	7.5mm	CEGF-1.5	CEGM-1.5
2.5mm ²	AWG 14	7.5mm	CEGF-2.5	CEGM-2.5
3.0mm ²	AWG 12	7.5mm	CEGF-3.0	CEGM-3.0
4.0mm ²	AWG 12	7.5mm	CEGF-4.0	CEGM-4.0



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

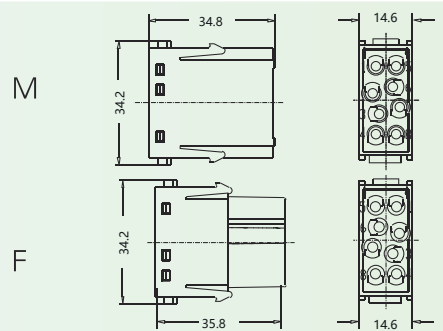
Heavy-Duty Connector

HMEE-008

HMEE-008 Parameters Of Cold Pressed Module

standard	
DIN EN 60 664 DIN EN 61 984	
Insert	
※Number of connector pins	8
※Rated voltage according to EN61 984	
※Rated current	16A
※Rated voltage	400V
※Rated impulse voltage	6KV
※Pollution degree	3
※basisUL的Rated voltage	600V
※insulation resistance	$\geq 10^{10}\Omega$
※Material Science	polycarbonate
※Operating temperature range	-40°C ~ +125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500
Pin	
※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	$\leq 1\text{m}\Omega$
※Cold pressed connection	
mm ²	0.14-4mm ²
AWG	26-12

HMEE-008 Cold Pressed Module

Product Picture	Form	Product Size
Cold crimping 	HMEE-008-MC HMEE-008-FC	

16A Cold Pressing Pins

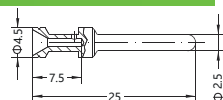
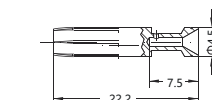


plate with silver

Cable section		Strip length	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	7.5mm	CESF-0.37	CESM-0.37
0.5mm ²	AWG 20	7.5mm	CESF-0.5	CESM-0.5
0.75mm ²	AWG 18	7.5mm	CESF-0.75	CESM-0.75
1.0mm ²	AWG 18	7.5mm	CESF-1.0	CESM-1.0
1.5mm ²	AWG 16	7.5mm	CESF-1.5	CESM-1.5
2.5mm ²	AWG 14	7.5mm	CESF-2.5	CESM-2.5
3.0mm ²	AWG 12	7.5mm	CESF-3.0	CESM-3.0
4.0mm ²	AWG 12	7.5mm	CESF-4.0	CESM-4.0

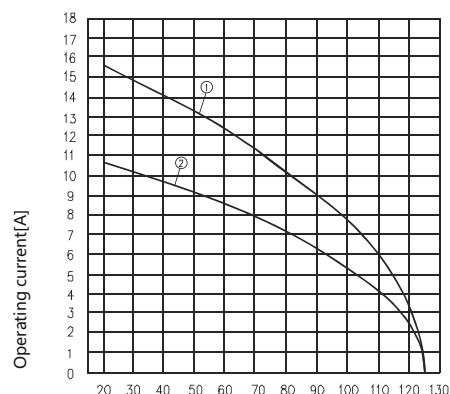


gold-plated

Cable section		Strip length	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	7.5mm	CEGF-0.37	CEGM-0.37
0.5mm ²	AWG 20	7.5mm	CEGF-0.5	CEGM-0.5
0.75mm ²	AWG 18	7.5mm	CEGF-0.75	CEGM-0.75
1.0mm ²	AWG 18	7.5mm	CEGF-1.0	CEGM-1.0
1.5mm ²	AWG 16	7.5mm	CEGF-1.5	CEGM-1.5
2.5mm ²	AWG 14	7.5mm	CEGF-2.5	CEGM-2.5
3.0mm ²	AWG 12	7.5mm	CEGF-3.0	CEGM-3.0
4.0mm ²	AWG 12	7.5mm	CEGF-4.0	CEGM-4.0

Current Load Capacity

The limitation of current load capacity mainly comes from the maximum temperature that the connector containing the contact pin can withstand Test and control process according to DIN EN 605 12-5



Ambient temperature[°C]

①24B enclosure with 6 modules, conductor section:2.5mm²

②24B enclosure with 6 modules, conductor section:1.5mm²



Heavy-Duty Connector

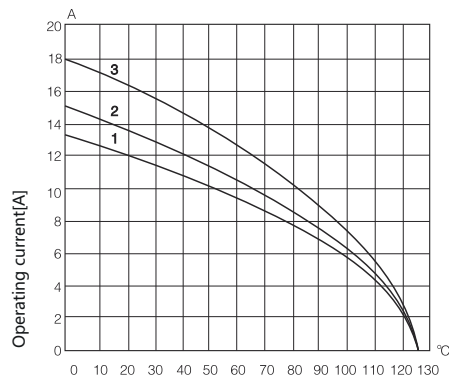
H2MEE-020

H2MEE-020 Cold Pressed Module Parameter

standard	
DIN EN 60 664 DIN EN 61 984	
Insert	
※Number of connector pins	20
※Rated voltage according to EN61 984	
※Rated current	16A
※Rated voltage	500V
※Rated impulse voltage	6KV
※Pollution degree	3
※Rated voltage according to UL	600V
※Insulation resistance	$\geq 10^{10}\Omega$
※Material Science	Polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500
Pin	
※Material Science	copper alloy
※surface treatment	plate with silver
※contact resistance	gold-plated
※Cold pressed connection	$\leq 1m\Omega$
mm ²	0.14-4mm ²
AWG	26-12

Current Load Capacity

The limitation of current load capacity mainly comes from the maximum temperature that the connector containing the contact pin can withstand Test and control process according to DIN EN 605 12-5



Ambient temperature[°C]

①24B enclosure with 6 modules,conductor section:1.5mm²

②24B enclosure with 6 modules,conductor section:2.5mm²

③24B enclosure with 6 modules,conductor section:4.0mm²

H2MEE-020 Cold Pressed Module

Product Picture	Form	Product Size
Cold crimping		
	H2MEE-020-MC	
	H2MEE-020-FC	

16ACold Pressing Pins

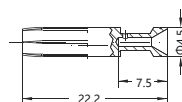
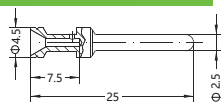


plate with silver

Cable section		Strip length	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	7.5mm	CESF-0.37	CESM-0.37
0.5mm ²	AWG 20	7.5mm	CESF-0.5	CESM-0.5
0.75mm ²	AWG 18	7.5mm	CESF-0.75	CESM-0.75
1.0mm ²	AWG 18	7.5mm	CESF-1.0	CESM-1.0
1.5mm ²	AWG 16	7.5mm	CESF-1.5	CESM-1.5
2.5mm ²	AWG 14	7.5mm	CESF-2.5	CESM-2.5
3.0mm ²	AWG 12	7.5mm	CESF-3.0	CESM-3.0
4.0mm ²	AWG 12	7.5mm	CESF-4.0	CESM-4.0

gold-plated

Cable section		Strip length	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	7.5mm	CEGF-0.37	CEGM-0.37
0.5mm ²	AWG 20	7.5mm	CEGF-0.5	CEGM-0.5
0.75mm ²	AWG 18	7.5mm	CEGF-0.75	CEGM-0.75
1.0mm ²	AWG 18	7.5mm	CEGF-1.0	CEGM-1.0
1.5mm ²	AWG 16	7.5mm	CEGF-1.5	CEGM-1.5
2.5mm ²	AWG 14	7.5mm	CEGF-2.5	CEGM-2.5
3.0mm ²	AWG 12	7.5mm	CEGF-3.0	CEGM-3.0
4.0mm ²	AWG 12	7.5mm	CEGF-4.0	CEGM-4.0



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

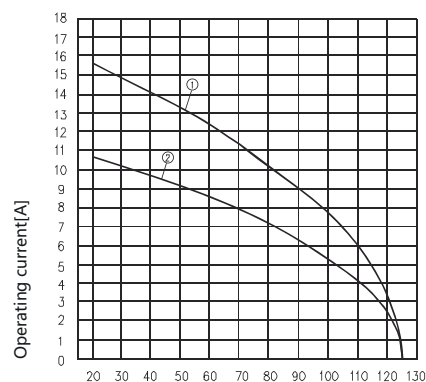
HMD-012

HMD-012 Cold Pressed Module Parameter

standard	
DIN EN 60 664 DIN EN 61 984	
Insert	
※Number of connector pins	12
※Rated voltage according to EN61 984	
※Rated current	10A
※Rated voltage	250V
※Rated impulse voltage	4KV
※Pollution degree	3
※Rated voltage according to UL	600V
※Insulation resistance	$\geq 10^{10}\Omega$
※Material Science	Polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500
Pin	
※Material Science	copper alloy
※surface treatment	plate with silver gold-plated
※contact resistance	$\leq 3m\Omega$
※Cold pressed connection	
mm ²	0.14-2.5mm ²
AWG	26-14

Current Load Capacity

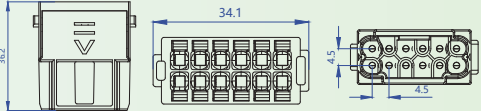
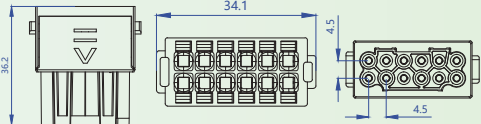
The limitation of current load capacity mainly comes from the maximum temperature that the connector containing the contact pin can withstand Test and control process according to DIN EN 605 12-5



Ambient temperature[°C]

① 24B enclosure with 6 modules, conductor section: 2.5mm²
② 24B enclosure with 6 modules, conductor section: 1.5mm²

HMD-012 Cold Pressed Module

Product Picture	Form	Product Size
Spring clip crimping 	HMD-012-MS HMD-012-FS	M  F 

10A Cold Pressing Pins

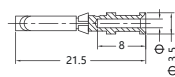
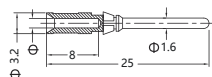


plate with silver

Cable section		Strip length	Φ	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	8mm	0.9	CDSF-0.37	CDSM-0.37
0.5mm ²	AWG 20	8mm	1.1	CDSF-0.5	CDSM-0.5
0.75mm ²	AWG 18	8mm	1.3	CDSF-0.75	CDSM-0.75
1.0mm ²	AWG 18	8mm	1.45	CDSF-1.0	CDSM-1.0
1.5mm ²	AWG 16	8mm	1.75	CDSF-1.5	CDSM-1.5
2.5mm ²	AWG 14	8mm	2.25	CDSF-2.5	CDSM-2.5

gold-plated

Cable section		Strip length	Φ	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	8mm	0.9	CDGF-0.37	CDGM-0.37
0.5mm ²	AWG 20	8mm	1.1	CDGF-0.5	CDGM-0.5
0.75mm ²	AWG 18	8mm	1.3	CDGF-0.75	CDGM-0.75
1.0mm ²	AWG 18	8mm	1.45	CDGF-1.0	CDGM-1.0
1.5mm ²	AWG 16	8mm	1.75	CDGF-1.5	CDGM-1.5
2.5mm ²	AWG 14	8mm	2.25	CDGF-2.5	CDGM-2.5



Heavy-Duty Connector

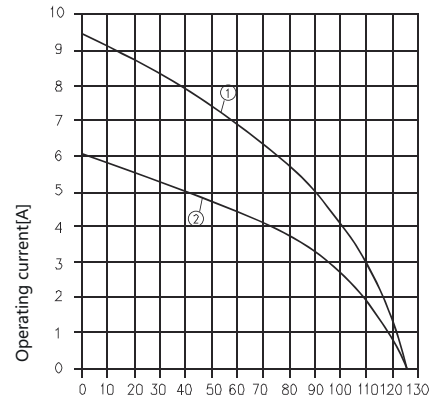
HMDD-017

HMDD-017 Cold Pressed Module Parameter

standard	
	DIN EN 60 664 DIN EN 61 984
Insert	
※Number of connector pins	17
※Rated voltage according to EN61 984	
※Rated current	10A
※Rated voltage	160V
※Rated impulse voltage	2.5KV
※Pollution degree	3
※Rated voltage according to UL	250V
※Insulation resistance	$\geq 10^{10}\Omega$
※Material Science	polycarbonate
※Operating temperature range	-40°C ~ +125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500
Pin	
※Material Science	copper alloy
※surface treatment	plate with silver gold-plated
※contact resistance	$\leq 3m\Omega$
※Cold pressed connection	
mm ²	0.14-2.5mm ²
AWG	26-14

Current Load Capacity

The limitation of current load capacity mainly comes from the maximum temperature that the connector containing the contact pin can withstand Test and control process according to DIN EN 605 12-5

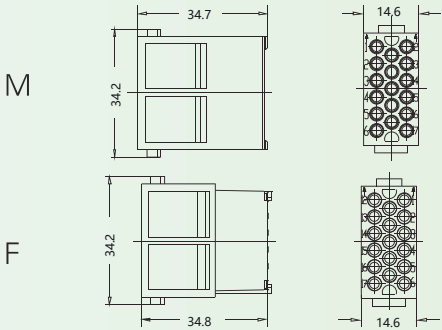


Ambient temperature[°C]

①24B enclosure with 6 modules,conductor section:1.5mm²

②24B enclosure with 6 modules,conductor section:1.0mm²

HMDD-017 Cold Pressed Module

Product Picture	Form	Product Size
Cold crimping		
	HMDD-017-MC	M
	HMDD-017-FC	F
		

10ACold Pressing Pins

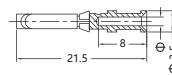
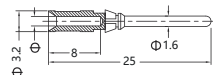


plate with silver

Cable section		Strip length	Φ	Female needle model	Male needle mode
014-0.37mm²	AWG 26-22	8mm	0.9	CDSF-0.37	CDSM-0.37
0.5mm²	AWG 20	8mm	1.1	CDSF-0.5	CDSM-0.5
0.75mm²	AWG 18	8mm	1.3	CDSF-0.75	CDSM-0.75
1.0mm²	AWG 18	8mm	1.45	CDSF-1.0	CDSM-1.0
1.5mm²	AWG 16	8mm	1.75	CDSF-1.5	CDSM-1.5
2.5mm²	AWG 14	8mm	2.25	CDSF-2.5	CDSM-2.5

gold-plated

Cable section		Strip length	Φ	Female needle model	Male needle model
014-0.37mm²	AWG 26-22	8mm	0.9	CDGF-0.37	CDGM-0.37
0.5mm²	AWG 20	8mm	1.1	CDGF-0.5	CDGM-0.5
0.75mm²	AWG 18	8mm	1.3	CDGF-0.75	CDGM-0.75
1.0mm²	AWG 18	8mm	1.45	CDGF-1.0	CDGM-1.0
1.5mm²	AWG 16	8mm	1.75	CDGF-1.5	CDGM-1.5
2.5mm²	AWG 14	8mm	2.25	CDGF-2.5	CDGM-2.5



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

HMDS-009

HMDS-009 D-Sub Module Parameters

standard

DIN EN 60 664
DIN EN 61 984

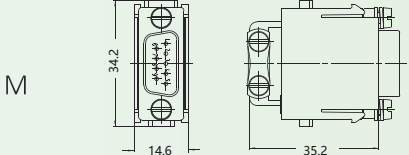
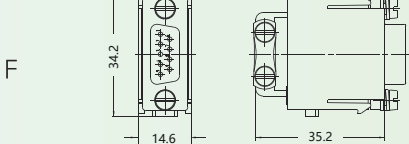
Insert

※Number of connector pins	9
※Rated voltage according to EN61 984	
※Rated current	5A
※Rated voltage	50V
※Rated impulse voltage	0.8KV
※Pollution degree	3
※Rated voltage according to UL	250V
※Insulation resistance	$\geq 10^{10}\Omega$
※Material Science	Polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500

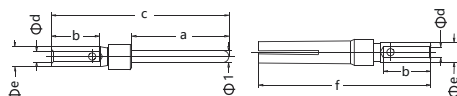
Pin

※Material Science	copper alloy
※surface treatment	plate with silver gold-plated
※contact resistance	$\leq 3m\Omega$
※Cold pressed connection	
mm ²	0.09-0.82mm ²
AWG	28-18

HMDS-009 D-Sub Module

Product Picture	Form	Product Size
Cold crimping  	HMDS-009-MC HMDS-009-FC	 

5A Cold Pressing Pins



a	b	c	d	e	f
8.23	4.2	14.0	1.35	1.75	13.6
8.10	4.0	14.8	1.12	1.66	14.4
8.10	4.0	14.8	0.90	1.66	14.4
8.10	4.0	14.8	0.64	1.66	14.4

gold-plated

Cable section	Strip length	Female needle model	Male needle model
0.09-0.25mm ² AWG 28-24	5mm	CSGF-0.25	CSGM-0.25
0.13-0.33mm ² AWG 26-22	5mm	CSGF-0.33	CSGM-0.33
0.33-0.52mm ² AWG 22-20	5mm	CSGF-0.52	CSGM-0.52
0.33-0.82mm ² AWG 22-18	5mm	CSGF-0.82	CSGM-0.82

plate with silver

Cable section	Strip length	Female needle model	Male needle model
0.09-0.25mm ² AWG 28-24	5mm	CSSF-0.25	CSSM-0.25
0.13-0.33mm ² AWG 26-22	5mm	CSSF-0.33	CSSM-0.33
0.33-0.52mm ² AWG 22-20	5mm	CSSF-0.52	CSSM-0.52
0.33-0.82mm ² AWG 22-18	5mm	CSSF-0.82	CSSM-0.82



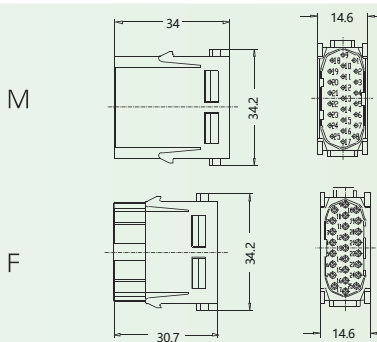
Heavy-Duty Connector

HMDS-025

HMDS-025 High Density Module Parameters

standard	
DIN EN 60 664 DIN EN 61 984	
Insert	
※Number of connector pins	25
※Rated voltage according to EN61 984	
※Rated current	4A
※Rated voltage	50V
※Rated impulse voltage	0.8kV
※Pollution degree	3
※insulation resistance	$\geq 10^{10}\Omega$
※Material Science	polycarbonate
※Operating temperature range	-40°C~+125°C
※Flame retardant grade	V0
※Pluggable times	≥ 500
Pin	
※Material Science	copper alloy
※surface treatment	plate with silver gold-plated
※contact resistance	$\leq 3m\Omega$
※Cold pressed connection	
mm ²	0.09-0.52mm ²
AWG	28-20

HMDS-025 High Density Module

Product Picture	Form	Product Size
Cold crimping  	HMDS-025-MC HMDS-025-FC	

5A Cold Pressing Pins

Technical drawings of two pins, M and F, showing dimensions in millimeters (mm).

Pin M: A pin with a hexagonal head. Dimensions are labeled: $\varnothing e$ (head diameter), b (head width), c (pin length), a (pin length from head face), and $\varnothing$ (pin diameter).

Pin F: A pin with a hexagonal head. Dimensions are labeled: $\varnothing e$ (head diameter), b (head width), f (pin length), d (pin length from head face), and $\varnothing$ (pin diameter).

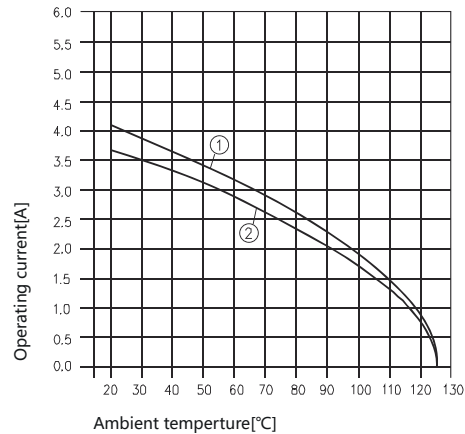
M

F

a	b	c	d	e	f
8.23	4.2	14.0	1.35	1.75	13.6
8.10	4.0	14.8	1.12	1.66	14.4
8.10	4.0	14.8	0.90	1.66	14.4
8.10	4.0	14.8	0.64	1.66	14.4

Current Load Capacity

The limitation of current load capacity mainly comes from the maximum temperature that the connector containing the contact pin can withstand Test and control process according to DIN EN 605 12-5



- ①24B enclosure with 6 modules, conductor section:0.5mm²(turning needle)
②24B enclosure with 6 modules, conductor section:0.5mm²(stamping needle)

gold-plated

Cable section		Strip length	Female needle model	Male needle model
0.09-0.25mm ²	AWG 28-24	5mm	CSGF-0.25	CSGM-0.25
0.13-0.33mm ²	AWG 26-22	5mm	CSGF-0.33	CSGM-0.33
0.33-0.52mm ²	AWG 22-20	5mm	CSGF-0.52	CSGM-0.52
0.33-0.82mm ²	AWG 22-18	5mm	CSGF-0.82	CSGM-0.82

plate with silver

Cable section		Strip length	Female needle model	Male needle model
0.09-0.25mm ²	AWG 28-24	5mm	CSSF-0.25	CSSM-0.25
0.13-0.33mm ²	AWG 26-22	5mm	CSSF-0.33	CSSM-0.33
0.33-0.52mm ²	AWG 22-20	5mm	CSSF-0.52	CSSM-0.52
0.33-0.82mm ²	AWG 22-18	5mm	CSSF-0.82	CSSM-0.82



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector



HM-RJ45

HM-RJ45 Module Parameters

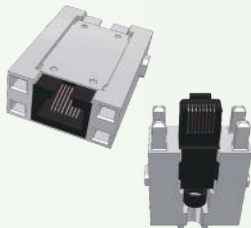
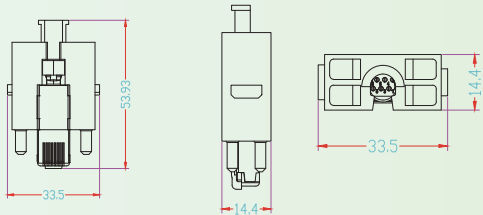
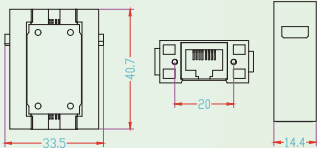
standard

DIN EN 60 664
DIN EN 61 984

Insert

- ※Number of connector pins 8
- ※Rated voltage according to EN61 984
- ※Rated current 1A
- ※Rated voltage 50V
- ※Rated impulse voltage 0.8KV
- ※Pollution degree 3
- ※Rated voltage according to UL <30V
- ※Insulation resistance $\geq 10^{10}\Omega$
- ※Material Science Polycarbonate
- ※Operating temperature range $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- ※Flame retardant grade V0
- ※Pluggable times ≥ 500

HM-RJ45 Module

Product Picture	Form	Product Size
Insert Used for connecting cable 	HM-RJ45-M	
	HM-RJ45-F	



Heavy-Duty Connector



HM-USB

HM-USB Modular

standard

DIN EN 60 664
DIN EN 61 984

Insert

※Number of connector pins	4
※Rated voltage according to EN61 984	
※Rated current	1A
※Rated voltage	50V
※Rated impulse voltage	0.8KV
※Pollution degree	3
※Rated voltage according to UL	<30V
※Insulation resistance	≥10 ¹⁰ Ω
※Material Science	Polycarbonate
※Operating temperature range	-40℃~+125℃
※Flame retardant grade	V0
※Pluggable times	≥500

HM-USB Modular

Product Picture

Form

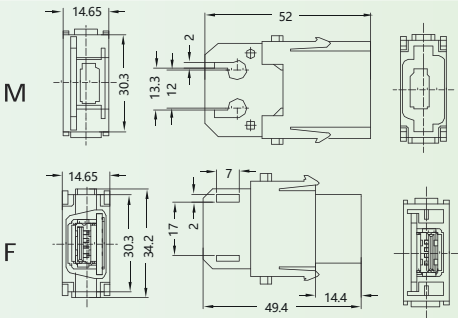
Product Size

Insert Used for connecting cable



HM-USB-M

HM-USB-F



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

HMP-002

HMP-002 Pneumatic Module Parameters

standard

DIN EN 60 664
DIN EN 61 984

Insert

※Number of connector pins 2
※Material Science Polycarbonate
※Operating temperature range -40°C~+80°C
※Flame retardant grade V0
※Pluggable times ≥500

Pin

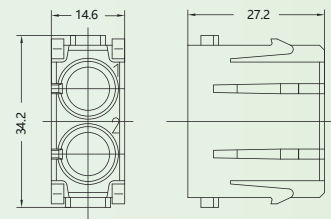
※Material Science Delrin Acetal
※colour Black
※Hose connection internal diameter 6.0mm/1/4"
※working pressure (Up To) 8 Bar/116 Psi
※seal ring Material Science Buna-n
※Locking valve Polypropylen
Material Science

HMP-002 Pneumatic Module



Description

Form Type
HMP-002

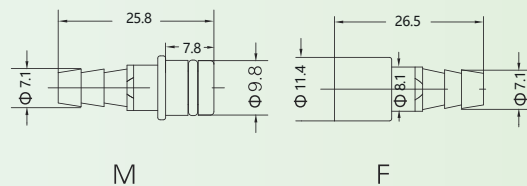


Pump Accessories

Hose Connector inner diameter (ID)



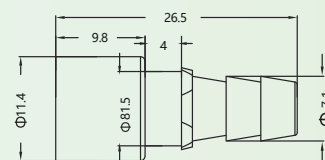
Description	Category	ID	Form Type
Without Shut Off	Male	3.0mm	PCM-3.0
		4.0mm	PCM-4.0
		6.0mm	PCM-6.0
Without Shut Off	Female	3.0mm	PCF-3.0
		4.0mm	PCF-4.0
		6.0mm	PCF-6.0



Hose Connector inner diameter(ID)



Description	Category	ID	Form Type
With Shut Off	Female	3.0mm	PCFS-3.0
		4.0mm	PCFS-4.0
		6.0mm	PCFS-6.0



Heavy-Duty Connector

HMP-003

HMP-003 Pneumatic Module Parameters

standard

DIN EN 60 664
DIN EN 61 984

Insert

- ※Number of connector pins 3
- ※Material Science Polycarbonate
- ※Operating temperature range -40°C~+80°C
- ※Flame retardant grade V0
- ※Pluggable times ≥500

Pin

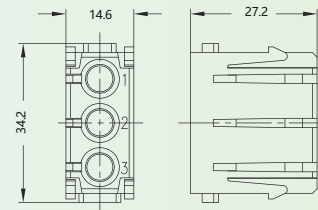
- ※Material Science Delrin Acetal
- ※colour Black
- ※Hose connection internal diameter 1.6mm/1/16"
3mm
4mm/1/8"
- ※working pressure maximum(Up To) 8 Bar/116 Psi
- ※seal ring Material Science NBR Buna-n
- ※Locking valve Material Science Polypropylen

HMP-003 Pneumatic Module



Description

Form Type
HMP-003

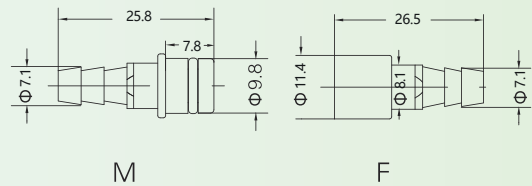


Pump Accessories

Hose Connector inner diameter (ID)



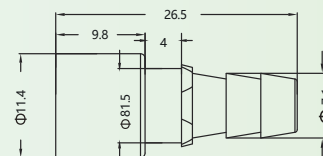
Description	Category	ID	Form Type
Without Shut Off	Male	3.0mm	PCM-3.0
		4.0mm	PCM-4.0
		6.0mm	PCM-6.0
Without Shut Off	Female	3.0mm	PCF-3.0
		4.0mm	PCF-4.0
		6.0mm	PCF-6.0



Hose Connector inner diameter (ID)



Description	Category	ID	Form Type
With Shut Off	Female	3.0mm	PCFS-3.0
		4.0mm	PCFS-4.0
		6.0mm	PCFS-6.0

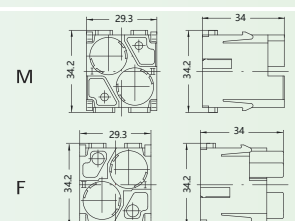
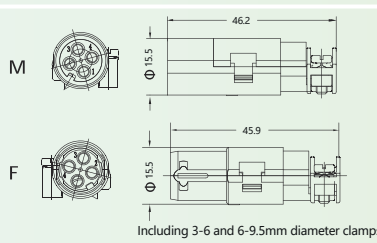
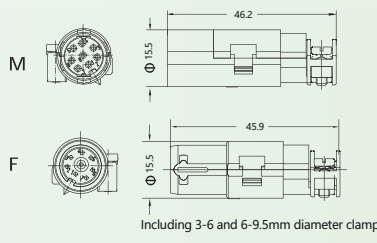


Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

● Electromagnetic shielding module

Magnetic Shielding Module Insert

Product Picture	Form	Product Size
Cold pressed wiring 	H2M-002-M H2M-002-F	
10A cold pressing needle shall be ordered separately Cable diameter 3mm-9.5mm 	EMC-004-MC EMC-004-FC	 Including 3-6 and 6-9.5mm diameter clamps
5A cold pressing needle shall be ordered separately Cable diameter 3mm-9.5mm 	EMC-008-MC EMC-008-FC	 Including 3-6 and 6-9.5mm diameter clamps

10A/5ACold Pressing Pins

10ACold pressing needle

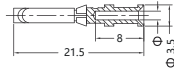
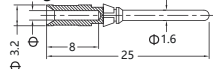


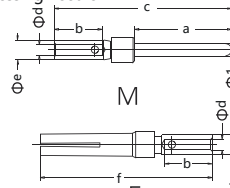
plate with silver

Cable section		Strip length	Φ	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	8mm	0.9	CDSF-0.37	CDSM-0.37
0.5mm ²	AWG 20	8mm	1.1	CDSF-0.5	CDSM-0.5
0.75mm ²	AWG 18	8mm	1.3	CDSF-0.75	CDSM-0.75
1.0mm ²	AWG 18	8mm	1.45	CDSF-1.0	CDSM-1.0
1.5mm ²	AWG 16	8mm	1.75	CDSF-1.5	CDSM-1.5
2.5mm ²	AWG 14	8mm	2.25	CDSF-2.5	CDSM-2.5

gold-plated

Cable section		Strip length	Φ	Female needle model	Male needle model
014-0.37mm²	AWG 26-22	8mm	0.9	CDGF-0.37	CDGM-0.37
0.5mm²	AWG 20	8mm	1.1	CDGF-0.5	CDGM-0.5
0.75mm²	AWG 18	8mm	1.3	CDGF-0.75	CDGM-0.75
1.0mm²	AWG 18	8mm	1.45	CDGF-1.0	CDGM-1.0
1.5mm²	AWG 16	8mm	1.75	CDGF-1.5	CDGM-1.5
2.5mm²	AWG 14	8mm	2.25	CDGF-2.5	CDGM-2.5

5ACold pressing needle



a	b	c	d	e	f
8.23	4.2	14.0	1.35	1.75	13.6
8.10	4.0	14.8	1.12	1.66	14.4
8.10	4.0	14.8	0.90	1.66	14.4
8.10	4.0	14.8	0.64	1.66	14.4

gold-plated

Cable section		Strip length	Female needle model	Male needle model
0.09-0.25mm ²	AWG 28-24	5mm	CSGF-0.25	CSGM-0.25
0.13-0.33mm ²	AWG 26-22	5mm	CSGF-0.33	CSGM-0.33
0.33-0.52mm ²	AWG 22-20	5mm	CSGF-0.52	CSGM-0.52
0.33-0.82mm ²	AWG 22-18	5mm	CSGF-0.82	CSGM-0.82

plate with silver

Cable section		Strip length	Female needle model	Male needle model
0.09-0.25mm ²	AWG 28-24	5mm	CSSF-0.25	CSSM-0.25
0.13-0.33mm ²	AWG 26-22	5mm	CSSF-0.33	CSSM-0.33
0.33-0.52mm ²	AWG 22-20	5mm	CSSF-0.52	CSSM-0.52
0.33-0.82mm ²	AWG 22-18	5mm	CSSF-0.82	CSSM-0.82

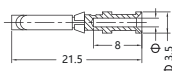


VELLEDQ®

Magnetic Shielding Module Insert

10A/5A Cold Pressing Pins

Technical drawing of a needle. The drawing shows a cross-section of the needle head and shaft. The dimensions are: 3.2 (width of the needle head), 8 (length of the needle head), 25 (total length of the needle), and 1.6 (diameter of the needle shaft).



Cable section		Strip length	Φ	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	8mm	0.9	CDSF-0.37	CDSM-0.37
0.5mm ²	AWG 20	8mm	1.1	CDSF-0.5	CDSM-0.5
0.75mm ²	AWG 18	8mm	1.3	CDSF-0.75	CDSM-0.75
1.0mm ²	AWG 18	8mm	1.45	CDSF-1.0	CDSM-1.0
1.5mm ²	AWG 16	8mm	1.75	CDSF-1.5	CDSM-1.5
2.5mm ²	AWG 14	8mm	2.25	CDSF-2.5	CDSM-2.5

Cable section		Strip length	Φ	Female needle model	Male needle model
014-0.37mm ²	AWG 26-22	8mm	0.9	CDGF-0.37	CDGM-0.37
0.5mm ²	AWG 20	8mm	1.1	CDGF-0.5	CDGM-0.5
0.75mm ²	AWG 18	8mm	1.3	CDGF-0.75	CDGM-0.75
1.0mm ²	AWG 18	8mm	1.45	CDGF-1.0	CDGM-1.0
1.5mm ²	AWG 16	8mm	1.75	CDGF-1.5	CDGM-1.5
2.5mm ²	AWG 14	8mm	2.25	CDGF-2.5	CDGM-2.5

a	b	c	d	e	f
8.23	4.2	14.0	1.35	1.75	13.6
8.10	4.0	14.8	1.12	1.66	14.4
8.10	4.0	14.8	0.90	1.66	14.4
8.10	4.0	14.8	0.64	1.66	14.4

Cable section		Strip length	Female needle model	Male needle mode
0.09-0.25mm ²	AWG 28-24	5mm	CSGF-0.25	CSGM-0.25
0.13-0.33mm ²	AWG 26-22	5mm	CSGF-0.33	CSGM-0.33
0.33-0.52mm ²	AWG 22-20	5mm	CSGF-0.52	CSGM-0.52
0.33-0.82mm ²	AWG 22-18	5mm	CSGF-0.82	CSGM-0.82

Cable section		Strip length	Female needle model	Male needle mode
0.09-0.25mm ²	AWG 28-24	5mm	CSSF-0.25	CSSM-0.25
0.13-0.33mm ²	AWG 26-22	5mm	CSSF-0.33	CSSM-0.33
0.33-0.52mm ²	AWG 22-20	5mm	CSSF-0.52	CSSM-0.52
0.33-0.82mm ²	AWG 22-18	5mm	CSSF-0.82	CSSM-0.82



Heavy-Duty Connector

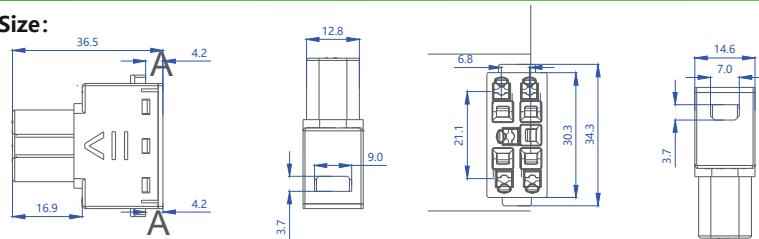
● Connection mode display

5-core Insert Spring Connection



HME-005-FS HME-005-MS

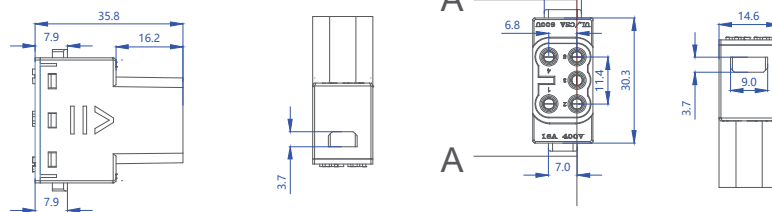
Product Size:



HME-005-FS



Splicing diagram



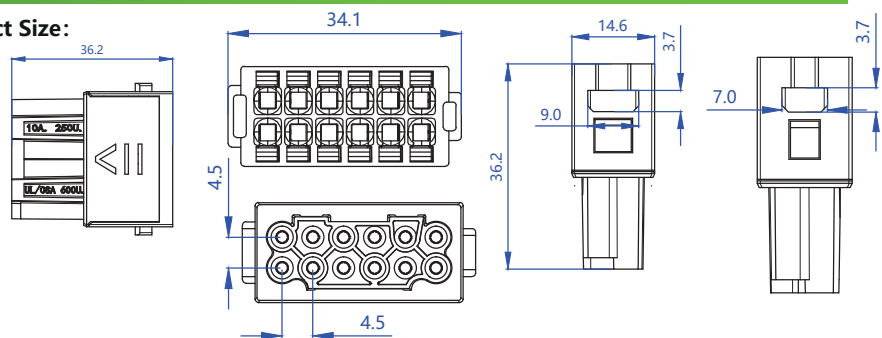
HME-005-MS

5-core Insert Spring Connection



HMD-012-FS HMD-012-MS

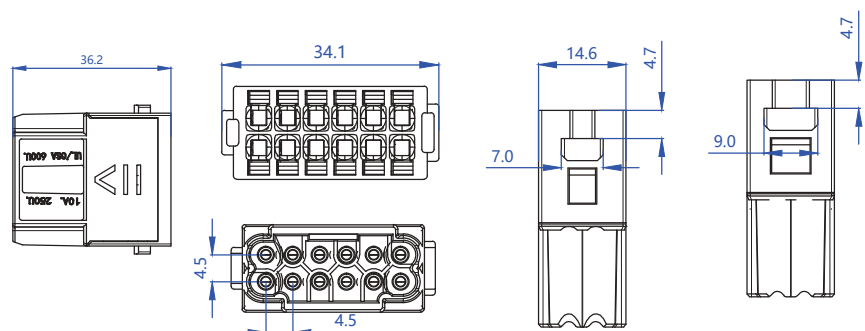
Product Size:



HMD-012-FS



Splicing diagram



HMD-012-MS



Heavy-Duty Connector

HMSC-004 SC Optical fiber module

Insert technology parameter

standard/authentication

standard authentication

Insert

Number of connector pins	4
insertion loss	< 0.5 dB
Material Science	polycarbonate
Operating temperature range	-40 °C ... +85 °C
Flame retardant rating according to UL 94	V 0
Pluggable times	≥ 500

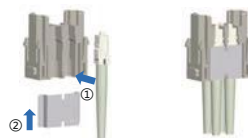
DIN EN 60 664
DIN EN 61 984



Can be combined with the framework and all other module products

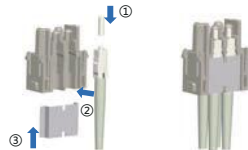
Assembly instructions

HMSC-004-MC



Step 1: Install the SC optical fiber jumper into the corresponding groove of the module;
Step 2: Push the fixing piece up slightly along the opening slot at the bottom of the module to cover the SC optical fiber, until the notch of the fixing sheet is clamped into the module; installation is complete

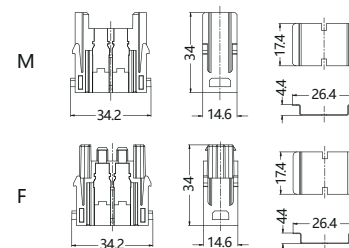
HMSC-004-FC



Step 1: Put the positioning sleeve onto the core of SC optical fiber jumper, and press it down until it contacts;
Step 2: Install the SC optical fiber jumper into the corresponding groove of the module;
Step 3: Push the fixing piece up slightly along the opening slot at the bottom of the module to cover the SC optical fiber, until the notch of the fixing sheet is clamped into the module; installation is complete

Optical fiber module SC optical fiber connector shall be ordered separately

	Insert	Form	Order No	
	Male	HMSC-004-MC	129 004 010 0091	
	Female	HMSC-004-FC	129 004 020 0091	
				M
				F



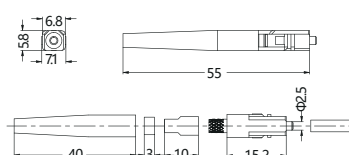
SC Optical fiber jumper¹⁾

SC Optical fiber jumper

Single mode: 9/125 μ m.
Applicable to GI fiber



describe	Form	Order No
Loose parts ²⁾	SC-PC/SM-3.0	295 000 001 0002
Jumper	PC-SC/UPC-SC/UPC-1.0(9/125μm-φ3.0)	906 010 000 0099
	PC-SC/UPC-SC/UPC-2.0(9/125μm-φ3.0)	906 010 000 0100

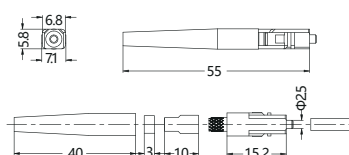


SC Optical fiber jumper

Multimode: 50/125 μ M or 62.5/125 μ m
Applicable to GI fiber



describe	Form	Order No
Loose parts ²⁾	SC-PC/MM-3.0	295 000 001 0001
Jumper	PC-SC/UPC-SC/UPC-1.0(50/125μm-φ3.0)	906 010 000 0097
	PC-SC/UPC-SC/UPC-2.0(50/125μm-φ3.0)	906 010 000 0098
	PC-SC/UPC-SC/UPC-1.0(62.5/125μm-φ3.0)	906 010 000 0095
	PC-SC/UPC-SC/UPC-2.0(62.5/125μm-φ3.0)	906 010 000 0096



1) Different specifications and lengths of optical fiber jumpers for SC, FC, ST, LC, MTRJ can be customized.

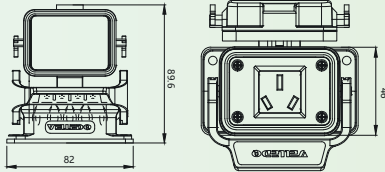
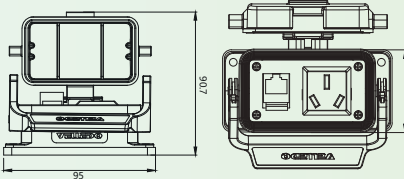
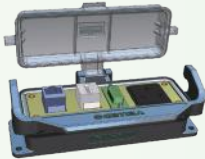
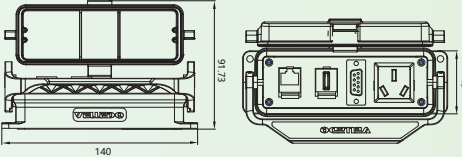
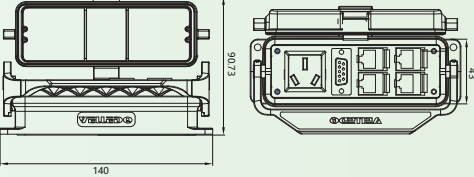
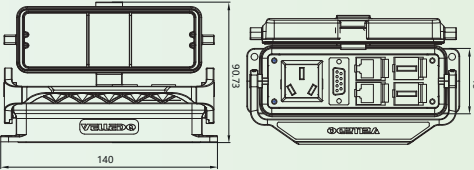
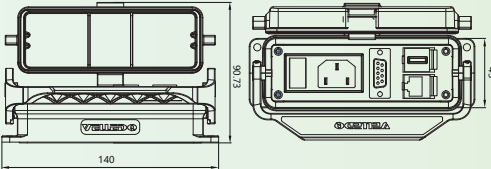
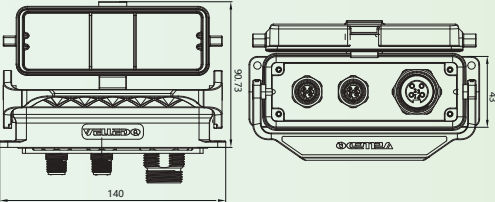
2) The purchase of spare parts requires corresponding professional equipment.



Data ,CAD,3D document please refer to: WWW.VELLEDQ.COM

Heavy-Duty Connector

● Heavy Duty Panel

Product Picture	Form	Product Size
	H6B-K-1L-TX-MB-A1	
	H10B-K-1L-TX-MB-A1	
	H24B-K-1L-TX-MB-A1	
	H24B-K-1L-TX-MB-A2	
	H24B-K-1L-TX-MB-A3	
	H24B-K-1L-TX-MB-A4	
	H24B-K-1L-TX-MB-A5	



Heavy-Duty Connector

- Heavy Duty Panel

