

HM SERIES

Flexible and combined connector



Summary

Insert	300A Crimp module	200A Axial module	200A Axial module	200A Crimp module
Contacts	1	1	1	1
Terminal	Crimp terminal	Axial screw terminal	Axial screw terminal	Crimp terminal
				
Rated current	300A	200A	200A	200A
Rated voltage	1000V AC 1300V DC	1000V	1000V	1000V
Wire gauge	70-120mm ²	25-70mm ²	25-70mm ²	25-70mm ²
Insert	200A Crimp module	100A Crimp module	Axial grounding module	Crimp module
Contacts	1	1	1	1
Terminal	Crimp terminal	Crimp terminal	Axial screw terminal	Crimp terminal
				
Rated current	200A	100A		
Rated voltage	1000V	830V		
Wire gauge	25-70mm ²	10-35mm ²	10-35mm ²	10-35mm ²
Insert	100A Axial module	100A Crimp module	70A Axial module	70A Crimp module
Contacts	2	2	2	2
Terminal	Axial screw terminal	Crimp terminal	Axial screw terminal	Crimp terminal
				
Rated current	100A	100A	70A	70A
Rated voltage	1000V	1000V	1000V	1000V
Wire gauge	10-35mm ²	10-35mm ²	6-22mm ²	10-25mm ²
Insert	40A Axial module	40A Crimp module	40A Axial module	40A Crimp module
Contacts	2	2	3	3
Terminal	Axial screw terminal	Crimp terminal	Axial screw terminal	Crimp terminal
				
Rated current	40A	40A	40A	40A
Rated voltage	1000V	1000V	690V	500V
Wire gauge	2.5-10mm ²	1.5-10mm ²	2.5-10mm ²	1.5-10mm ²

Summary

Insert	40A Crimp module	40A Spring module	40/10A Crimp module	40A Crimp module
Contacts	3	3	3/4	4
Terminal	Crimp terminal	spring terminal(Quick-in)	Crimp terminal	Crimp terminal
				
Rated current	40A	40A	40A/10A	40A
Rated voltage	690V	690V	830V	830V
Wire gauge	1.5-6mm ²	1.5-6mm ²	1.5-6mm ² /0.37-2.5mm ²	1.5-6mm ²

Insert	40A Spring module	40A High voltage module	16A High voltage module	16A High voltage module
Contacts	4	2	2	2
Terminal	spring terminal(Quick-in)	Crimp terminal	Crimp terminal	Crimp terminal
				
Rated current	40A	40A	16A	16A
Rated voltage	830V	2900/5000V	2900/5000V	2500V
Wire gauge	1.5-6mm ²	1.5-10mm ²	0.37-4mm ²	0.14-4mm ²

Insert	16A Screw module	16A Cage-clamp module	16A Crimp module	16A Spring module
Contacts	5	5	6	6
Terminal	Screw terminal	Cage clamp terminal	Crimp terminal	spring terminal(Quick-in)
				
Rated current	16A	16A	16A	16A
Rated voltage	230/400V	400V	500V	500V
Wire gauge	0.14-4mm ²	0.14-2.5mm ²	0.14-4mm ²	0.5-4mm ²

HM

Insert	16A Protected module	16A Crimp module	16A Spring module	16A Crimp module
Contacts	6	8	8	20
Terminal	Crimp terminal	Crimp terminal	spring terminal(Quick-in)	Crimp terminal
				
Rated current	16A	16A	16A	16A
Rated voltage	830V	400V	400V	500V
Wire gauge	0.14-4mm ²	0.14-4mm ²	0.5-4mm ²	0.14-4mm ²

Summary

Insert	10A Crimp module	10A Spring module	10A Crimp module	10A Crimp module
Contacts	12	12	17	42
Terminal	Crimp terminal	spring terminal(Quick-in)	Crimp terminal	Crimp terminal
				
Rated current	10A	10A	10A	10A
Rated voltage	250V	250V	160V	150V
Wire gauge	0.14-2.5mm ²	0.5-2.5mm ²	0.14-2.5mm ²	0.14-2.5mm ²

Insert	plastics module
Contacts	1
Terminal	Screw terminal
	
Rated current	
Rated voltage	
Wire gauge	1.5-16mm ²

Insert	MegaBit Insert	MegaBit Insert	MegaBit Insert	MegaBit Insert
Contacts	2x4+Shielded	2x4	8+Shielded	2x4
Number of outlet holes	2	1		2
				
Rated current	10A	10A	5A	10A
Rated voltage	50V	50V	50V	50V
Wire gauge	0.14-2.5mm ²	0.14-2.5mm ²	0.09-0.82mm ²	0.14-2.5mm ²

Insert	MegaBit Insert	MegaBit Insert	Shielded module
Contacts	2x4	8+Shielded	24+Shielded
Number of outlet holes	1		Crimp terminal
Not allow to connect with the frame shield			
			
Rated current	10A	5A	4A
Rated voltage	150V	50V	32V
Wire gauge	0.14-2.5mm ²	0.09-0.52mm ²	0.09-0.52mm ²

Summary

Insert	Adapter module	Adapter module	Cable clamp	
Contacts	1	1		
Terminal	for MegaBit Insert and 25 pin module	for 24 pins shielded module	for 100M,1000M and 24 pins modules	
			 Clamping range:5-14mm	
Insert	5A D-Sub module	5A D-Sub module	5A D-Sub module 2	1A USB module
Contacts	9	9	9	25
Terminal	Crimp terminal	Crimp terminal	Crimp terminal	Crimp terminal
				
Rated current	5A	5A	5A	4A
Rated voltage	50V	50V	50V	50V
Wire gauge	0.09-0.82mm ²	0.09-0.82mm ²	0.09-0.82mm ²	
Insert	1A USB module	4A High Density module	4A High Density module	1A RJ45 module
Contacts	4	25	36	8
Terminal	Module for patch cable	Crimp terminal	Crimp terminal	Module for patch cable
				
Rated current	1A	4A	4A	1A
Rated voltage	50V	50V	32V	50V
Wire gauge		0.09-0.52mm ²	0.09-0.52mm ²	
Insert	Coaxial module	Coaxial module		
Contacts	4	12		
Terminal	Crimp terminal	Crimp terminal		
				
Rated current	1A	1A		
Rated voltage	50V	50V		
Wire gauge				

Summary

Insert	H3A RJ45	H3A RJ45	H3A RJ45	HM-RJ45
Contacts	4 (data) + 4 (power) / 8 (data) + 4 (power)	8	8	8
				
Rated current	1A	1.5A	1.5A	1A
Rated voltage	48V	125V	125V	50V
Transmission features	Category 5 /Class E up to 500 MHz ; Category 6 /Class E up to 500 MHz	Category 5 /Class E up to 500 MHz	Category 6 /Class E up to 500 MHz	Category 6 /Class E up to 500 MHz

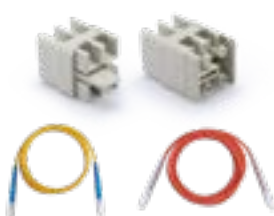
Insert	H3A 2RJ45/F
Contacts	8
	
Rated current	
Rated voltage	
Transmission features	Category 5 /Class E up to 100 MHz

Insert	Pneumatic module	Pneumatic module	Pneumatic Module(Metal Contact)	Pneumatic Module(Metal Contact)
Contacts	2	3	3	3
				
Contacts	 $\Phi 6$ mm	 $\Phi 1.6$ mm $\Phi 3.0$ mm $\Phi 4.0$ mm	 $\Phi 3.0$ mm $\Phi 4.0$ mm $\Phi 6.0$ mm	 $\Phi 3.0$ mm $\Phi 4.0$ mm $\Phi 6.0$ mm

Insert	Pneumatic Module(Metal Contact)	Pneumatic Module(Metal Contact)
Contacts	3	3
		
Contacts	 $\Phi 3.0$ mm $\Phi 4.0$ mm $\Phi 6.0$ mm	 $\Phi 3.0$ mm $\Phi 4.0$ mm $\Phi 6.0$ mm

HM

Summary

Insert	Electromagnetic screening module	Fiber module
Contacts	2	4
Contacts	 Q-Coax 4+shielding High Density Q-Coax 8+shielding D Coax 1+shielding E Coax 1+shielding	 single: 9/125µm multimode: 50/125µm or 62.5/125µm
Insert	Electromagnetic screening module	SC Fibe
Contacts	2	4
Contacts	 Q-Coax 4+shielding High Density Q-Coax 8+shielding D Coax 1+shielding E Coax 1+shielding	 single: 9/125µm multimode: 50/125µm or 62.5/125µm
Insert	SC Fibe	
Contacts	6	
Contacts	 LC Optical fiber connector 2.0/3.0 singlemode : 9/125µm LC Optical fiber connector 2.0/3.0 multimode : 50/125µm	

Hinged frames

Technical characteristics



Number of modules	2,3,4,6
PE contact(Wire gauge)	
- Power side	4-10mm ² 【Use PE-E16, expandable to 16mm ² ; Use PE-E25, expandable to 25mm ² ; (see page P10-20 for details). Only suitable for high structure hood or BK housing. 】 AWG 12-8
- Signal side	1-2.5mm ² 18-14
Material	zinc die-cast
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500

Frame construction version 4 (Spring Clip Quick-Lock Mechanism)

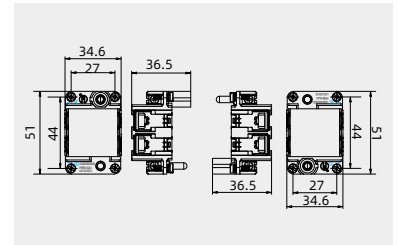
Remark: SPQ is 5pcs

Unit: mm

6B frame, size 6B hoods/housings



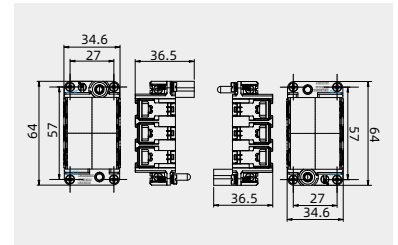
Application	Marking	Designation	Order No.
for 2 modules	A-B	HF6B-NUA4	129 006 000 0500
for 2 modules	a-b	HF6B-NLA4	129 006 000 0501



10B frame, size 10B hoods/housings



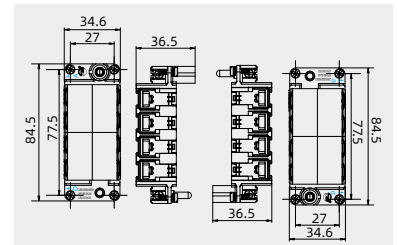
Application	Marking	Designation	Order No.
for 3 modules	A-C	HF10B-NUA4	129 010 000 0500
for 3 modules	a-c	HF10B-NLA4	129 010 000 0501



16B frame, size 16B hoods/housings



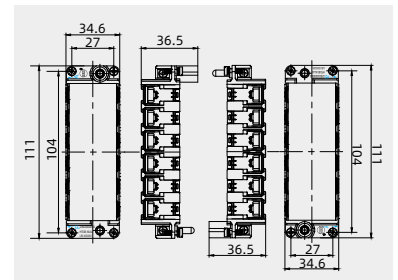
Application	Marking	Designation	Order No.
for 4 modules	A-D	HF16B-NUA4	129 016 000 0500
for 4 modules	a-d	HF16B-NLA4	129 016 000 0501



24B frame, size 24B hoods/housings



Application	Marking	Designation	Order No.
for 6 modules	A-F	HF24B-NUA4	129 024 000 0500
for 6 modules	a-f	HF24B-NLA4	129 024 000 0501



Hinged frames

Technical characteristics

Number of modules	2,3,4,6
PE contact(Wire gauge)	
- Power side	4-10mm ² 【Use PE-E16,expandable to 16mm ² ; (see page P10-20 for details). Only suitable for high structure hood or BK housing. 】 AWG 12-8
- Signal side	1-2.5mm ² 18-14
Material	zinc die-cast
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500

Frame construction version 1

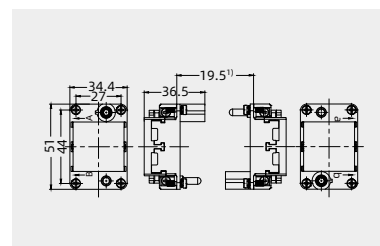
Remark: SPQ is 5pcs

Unit: mm

6B frame, size 6B hoods/housings



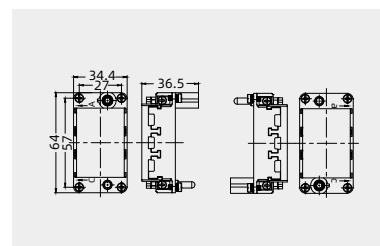
Application	Marking	Designation	Order No.
for 2 modules	A-B	HF6B-NUA3	129 006 000 1004
for 2 modules	a-b	HF6B-NLA3	129 006 000 1003



10B frame, size 10B hoods/housings



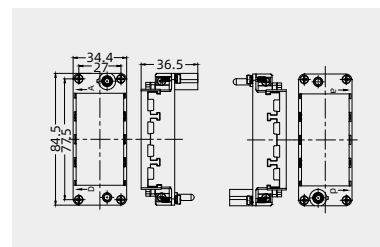
Application	Marking	Designation	Order No.
for 3 modules	A-C	HF10B-NUA3	129 010 000 1004
for 3 modules	a-c	HF10B-NLA3	129 010 000 1003



16B frame, size 16B hoods/housings



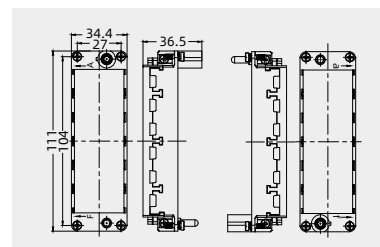
Application	Marking	Designation	Order No.
for 4 modules	A-D	HF16B-NUA3	129 016 000 1004
for 4 modules	a-d	HF16B-NLA3	129 016 000 1003



24B frame, size 24B hoods/housings



Application	Marking	Designation	Order No.
for 6 modules	A-F	HF24B-NUA3	129 024 000 1004
for 6 modules	a-f	HF24B-NLA3	129 024 000 1003



Hinged frames

Technical characteristics

Number of modules	2,3,4,6
PE contact(Wire gauge)	
- Power side	4-10mm ² 【Use PE-E16,expandable to 16mm ² ;Use PE-E25,expandable to 25mm ² ; (see page P10-20 for details). Only suitable for high structure hood or BK housing. 】 AWG 12-8
- Signal side	1-2.5mm ² 18-14
Material	zinc die-cast
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500

Frame construction version 2

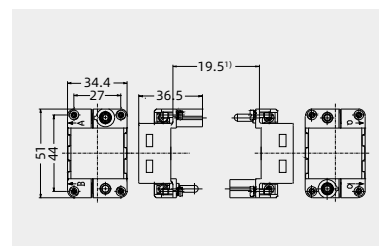
Remark: SPQ is 5pcs

Unit: mm

6B frame, size 6B hoods/housings



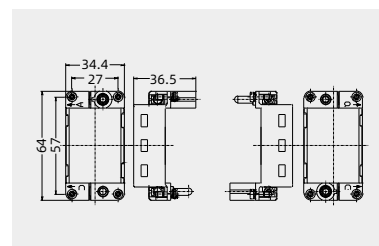
Application	Marking	Designation	Order No.
for 2 modules	A-B	HF6B-NUA2	129 006 000 1002
for 2 modules	a-b	HF6B-NLA2	129 006 000 1001



10B frame, size 10B hoods/housings



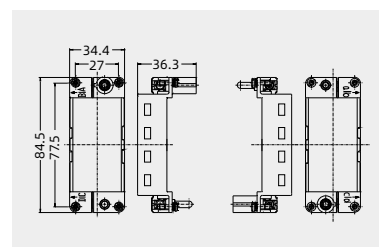
Application	Marking	Designation	Order No.
for 3 modules	A-C	HF10B-NUA2	129 010 000 1002
for 3 modules	a-c	HF10B-NLA2	129 010 000 1001



16B frame, size 16B hoods/housings



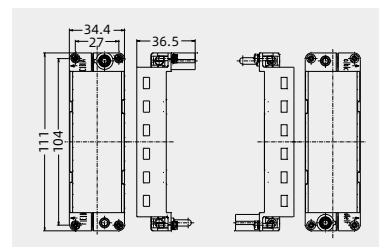
Application	Marking	Designation	Order No.
for 4 modules	A-D	HF16B-NUA2	129 016 000 1002
for 4 modules	a-d	HF16B-NLA2	129 016 000 1001



24B frame, size 24B hoods/housings



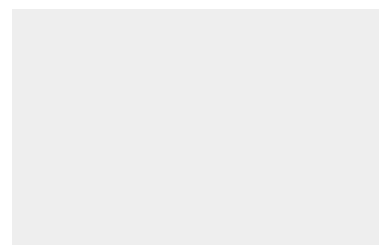
Application	Marking	Designation	Order No.
for 6 modules	A-F	HF24B-NUA2	129 024 000 1002
for 6 modules	a-f	HF24B-NLA2	129 024 000 1001



Locking element



Application	Designation	Order No.
Ideal to pre-assemble the hinged frames	HF-LE2	198 002 003 0024



Hinged frames

Technical characteristics

Number of modules	8
PE contact(Wire gauge)	
- Power side	4-10mm ² AWG 12-8
- Signal side	1-2.5mm ² 18-14
Material	zinc alloy + Stainless steel
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500

Frame construction version



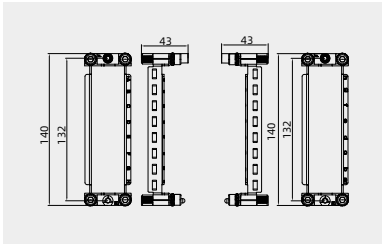
Remark: SPQ is 5pcs

Unit: mm

24B frame, Suitable for 12-26 only, plus large housing



Application	Marking	Designation	Order No.
for 8 modules	A-H	HF24B/E-NUA	129 024 000 1521
for 8 modules	a-h	HF24B/E-NLA	129 024 000 1522



Metal Docking Frame

Technical characteristics

Number of modules	2+PE, 3+PE, 4+PE, 6+PE
Material	zinc die-cast
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500

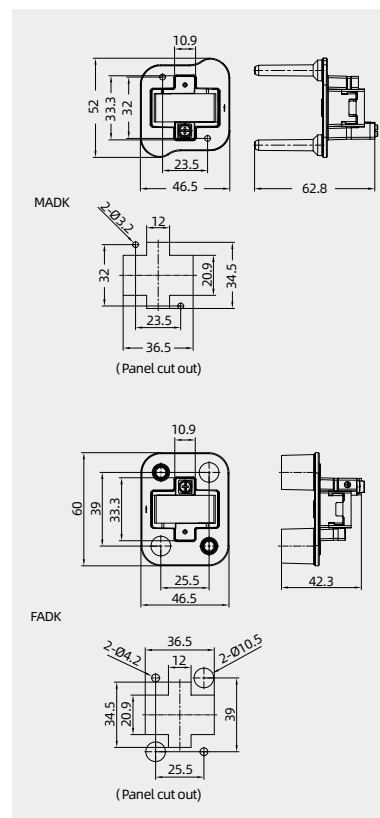
Single module frame docking stand

Remark: SPQ is 1pc

Unit: mm



Application	Marking	Designation	Order No.
for 1 modules	/	HF1M-MADK	198 002 004 0019
for 1 modules	/	HF1M-FADK	198 002 004 0020

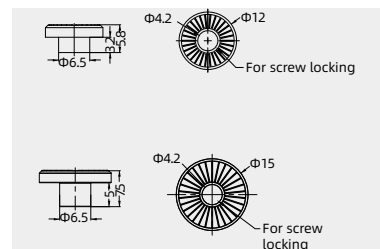


Floating washer

Floating washer



Describe	Designation	Order No.
Floating tolerance ± 4	HF-ADK-D12	198 002 001 0004
Floating tolerance ± 3	HF-ADK-D15	198 002 001 0003



Metal Docking Frame

Technical characteristics

Number of modules	2+PE, 3+PE, 4+PE, 6+PE
Material	zinc die-cast
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500

Metal Docking Frame

Remark: SPQ is 1pc

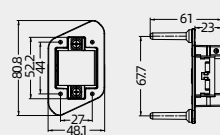
Unit: mm

6B Metal Docking Frame

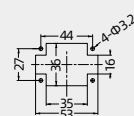


Application	Marking	Designation	Order No.
for 2 modules	A-B	HF6B-MADK	131 006 000 1006
for 2 modules	a-b	HF6B-FADK	131 006 000 1005

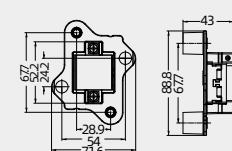
MADK



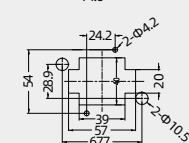
Panel cut out



FADK



Panel cut out



HM

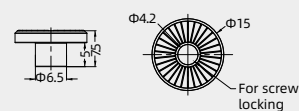
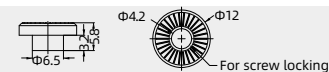
Floating washer

Remark: SPQ is 1pc

Floating washer



Describe	Designation	Order No.
Floating tolerance ± 4	HF-ADK-D12	198 002 001 0004
Floating tolerance ± 3	HF-ADK-D15	198 002 001 0003



Metal Docking Frame

Technical characteristics

Number of modules	2+PE, 3+PE, 4+PE, 6+PE
Material	zinc die-cast
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500

Metal Docking Frame

Remark: SPQ is 1pc

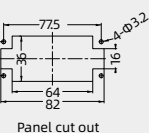
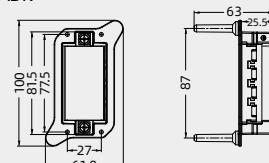
Unit: mm

16B Metal Docking Frame

Application	Marking	Designation	Order No.
for 4 modules	A-D	HF16B-MADK	131 016 000 1005
for 4 modules	a-d	HF16B-FADK	131 016 000 1004

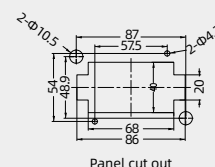
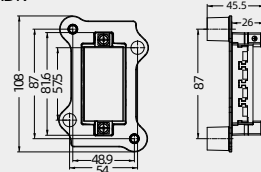


MADK



Panel cut out

FADK



Panel cut out

Floating washer

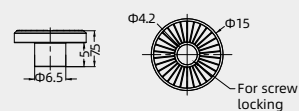
Remark: SPQ is 1pc

Floating washer

Describe	Designation	Order No.
Floating tolerance ±4	HF-ADK-D12	198 002 001 0004
Floating tolerance ±3	HF-ADK-D15	198 002 001 0003



For screw locking



For screw locking

Metal Docking Frame

Technical characteristics

Number of modules	6+PE
Material	zinc die-cast
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500

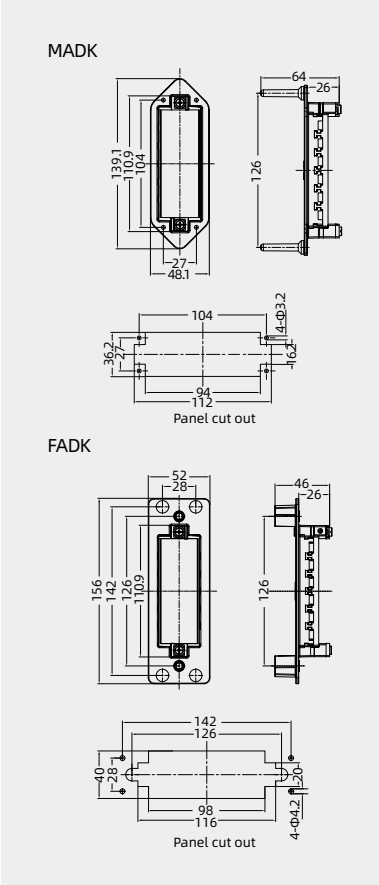
Metal Docking Frame

Remark: SPQ is 1pc

Unit: mm

24B Metal Docking Frame

Application	Marking	Designation	Order No.
for 6 modules	A-F	HF24B-MADK	131 024 000 1004
for 6 modules	a-f	HF24B-FADK	131 024 000 1014

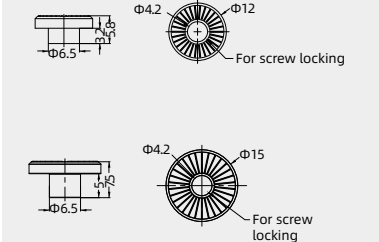


Floating washer

Remark: SPQ is 1pc

Floating washer

Describe	Designation	Order No.
Floating tolerance±4	HF-ADK-D12	198 002 001 0004
Floating tolerance±3	HF-ADK-D15	198 002 001 0003



Plastic Docking Frame

Technical characteristics

Number of modules	3
Material	polycarbonate
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500
Floating tolerance	±2mm
Lock tolerance	±4mm

Plastic Docking Frame

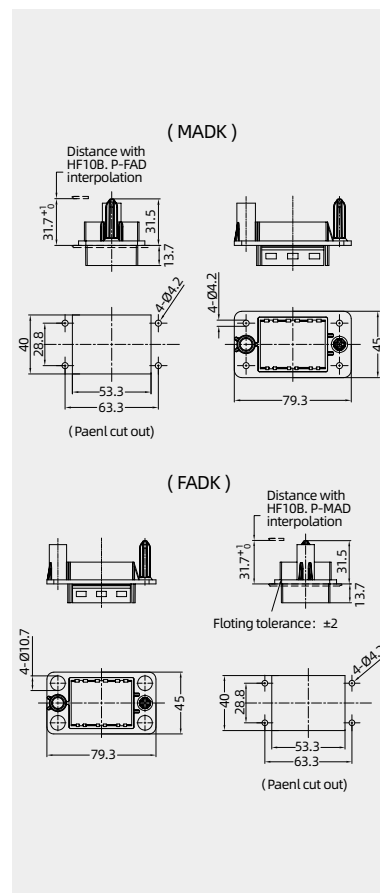
Remark: SPQ is 1pc

Unit: mm

10B plastic docking frame



Application	Marking	Designation	Order No.
for 3 modules	a-c	HF10B.P-MADK	111 010 100 1501
for 3 modules	A-C	HF10B.P-FADK	111 010 100 1500

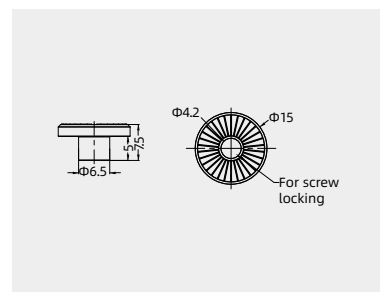


Floating washer

Remark: SPQ is 1pc

Floating washer

Describe	Designation	Order No.
Floating tolerance ±3	HF-ADK-D15	198 002 001 0003



Plastic Docking Frame

Technical characteristics

Number of modules	4
Material	polycarbonate
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500
Floating tolerance	±2mm
Lock tolerance	±4mm

Plastic Docking Frame

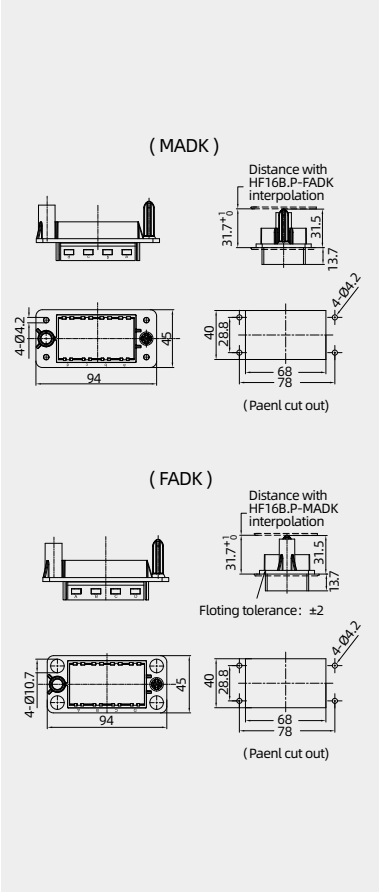
NEW

Remark: SPQ is 1pc

Unit: mm

16B plastic docking frame

Application	Marking	Designation	Order No.
for 4 modules	a-f	HF16B.P-MADK	111 016 100 1500
for 4 modules	A-F	HF16B.P-FADK	111 016 100 1501



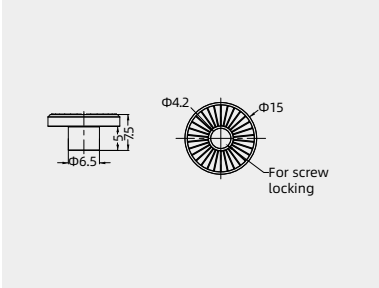
HM

Floating washer

Remark: SPQ is 1pc

Floating washer

Describe	Designation	Order No.
Floating tolerance±3	HF-ADK-D15	198 002 001 0003



Plastic Docking Frame

Technical characteristics

Number of modules	6
Material	polycarbonate
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500
Floating tolerance	±2mm
Lock tolerance	±4mm

Plastic Docking Frame

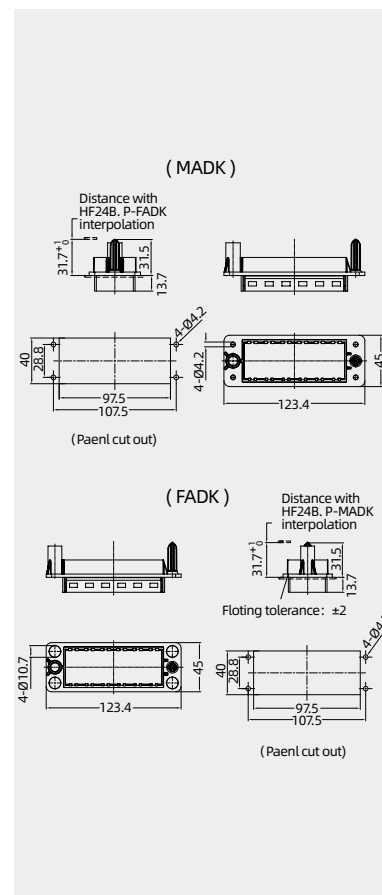
Remark: SPQ is 1pc

Unit: mm

24B plastic docking frame



Application	Marking	Designation	Order No.
for 6 modules	a-f	HF24B.P-MADK	111 024 100 1501
for 6 modules	A-F	HF24B.P-FADK	111 024 100 1500

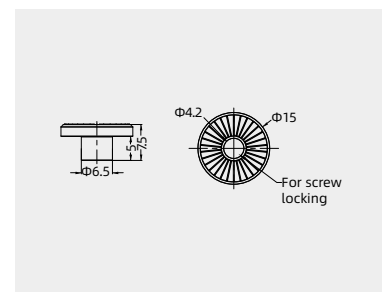


Floating washer

Remark: SPQ is 1pc

Floating washer

Describe	Designation	Order No.
Floating tolerance±3	HF-ADK-D15	198 002 001 0003



Plastic Docking Frame

Technical characteristics

Number of modules	4
Material	polycarbonate
Limiting temperatures	-40°C ...+125°C
Mechanical working life(mating cycles)	≥ 500
Floating tolerance	± 3mm
Lock tolerance	± 4mm

Plastic Docking Frame



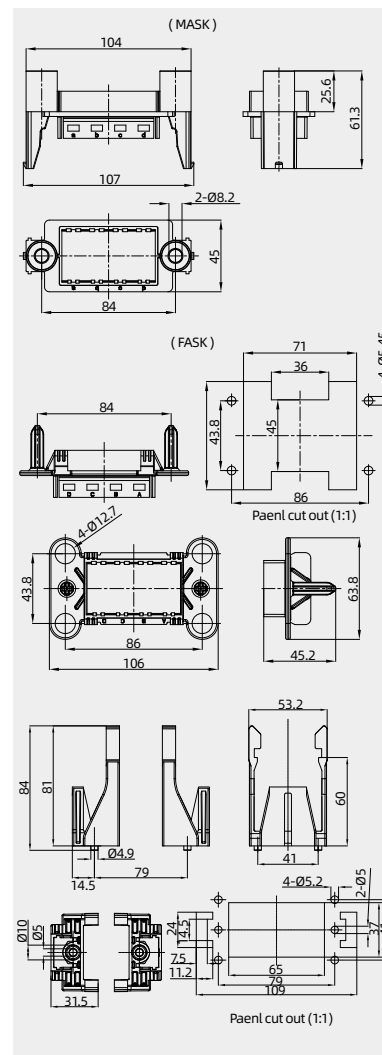
Remark: SPQ is 1pc

Unit: mm

24B Plastic sliding butt frame



Application	Marking	Designation	Order No.
for 4 modules	A-F	HF16B.P-MASK	101 000 099 0180
for 4 modules	a-f	HF16B.P-FASK	101 000 099 0179
		HFxB.P-MASK-APT	101 000 099 0181



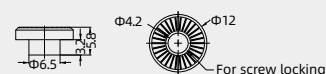
Floating washer

Remark: SPQ is 1pc

Floating washer



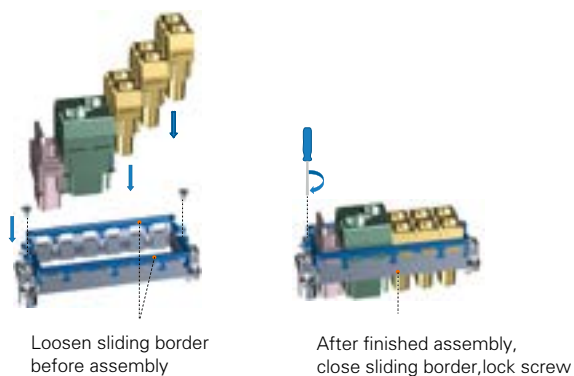
Describe	Designation	Order No.
Floating tolerance ± 4	HF-ADK-D12	198 002 001 0004



Modules dismounting instructions

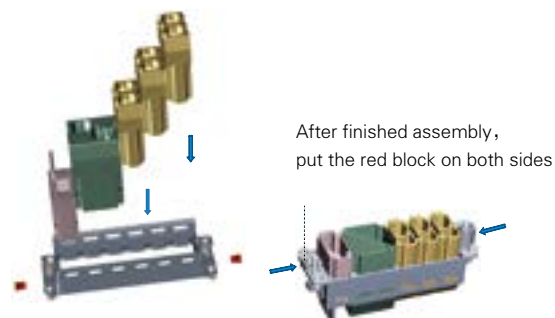
Frame construction version 1 Modules dismounting instructions

Assembly instructions (Disassembly process is on the contrary)

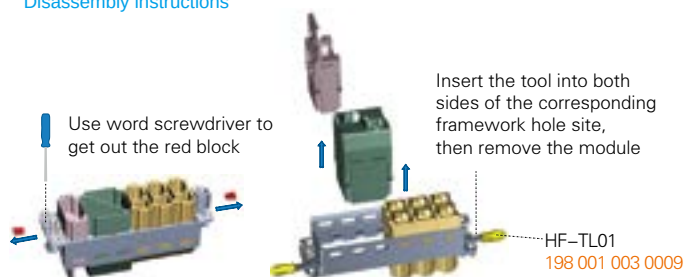


Frame construction version 2 Modules dismounting instructions

Assembly instructions

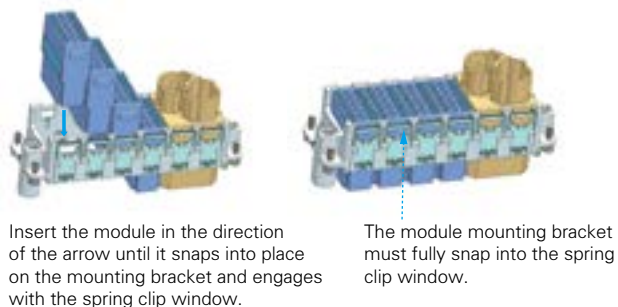


Disassembly instructions

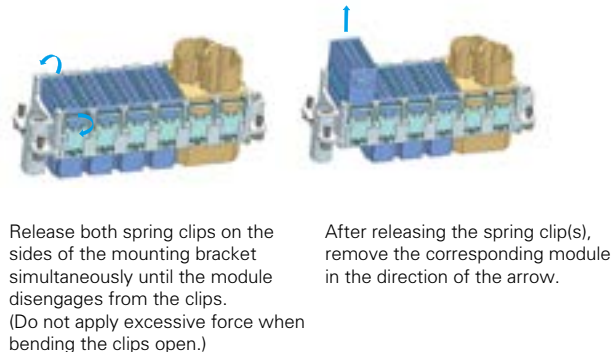


Frame construction version 4 Modules dismounting instructions

Assembly instructions

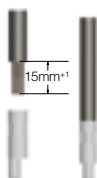


Disassembly instructions



PE contact Assembly instructions

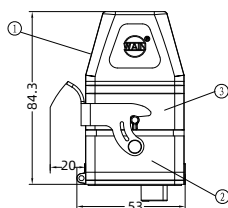
Step 1: insert the stripped wire into the hole of the PE contact for crimping.
(Reference stripping length 15mm⁺¹)



Step 2: Insert the crimped PE contact into the frame's grounding pin power cable (large hole) and lock the locking screw of the frame ground pin (Recommended tightening torque is 1.2Nm)



Metal enclosure for single module



Component

The connector is only applicable to one module, and it provides a degree of protection of IP65.

- ① Top entry of the hood;
- ② Housing with a stainless steel locking lever;
- ③ Carrier hood.

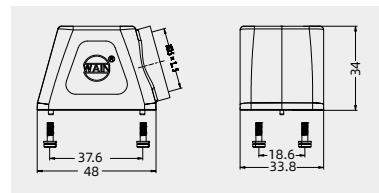
Hoods/Housings

Remark: SPQ is 1pc

Hoods,side entry



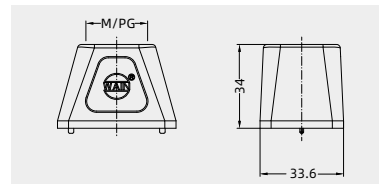
Thread	Designation	Order No.
M25	H1M-SE-M25	129 001 590 1003



Hoods, top entry



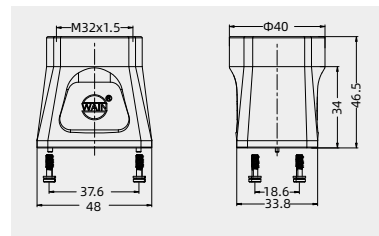
Thread	Designation	Order No.
M25	H1M-TE-M25	129 001 490 1003



Hoods, top entry



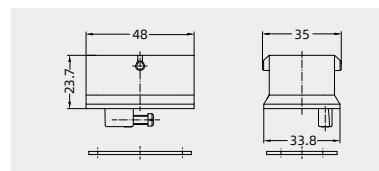
Thread	Designation	Order No.
M32	H1M-TE-M32	129 001 490 1004



Carrier hood



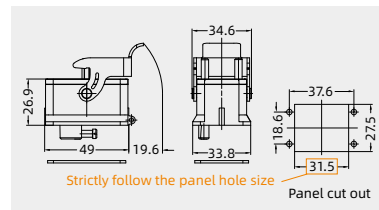
Thread	Designation	Order No.
---	H1M-MBK-2B	129 001 310 1001



Bulkhead mounted housings



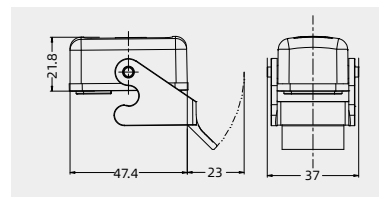
Thread	Designation	Order No.
---	H1M-BK-1L/S	129 001 325 1001



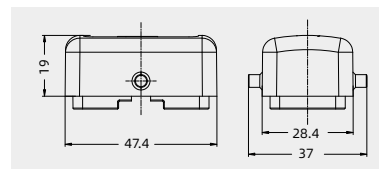
Protection covers,plastic



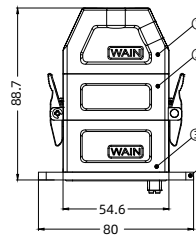
Thread	Designation	Order No.
---	H1M-CV-1L/1	129 001 025 8001

Protection covers
(for Housings),plastic

Thread	Designation	Order No.
---	H1M-CV-2B/2	129 001 010 8002



Metal enclosure for single module(EMC)-PUSH LOCK



Component

- ① Hood with top or side entry;
- ② Carrier hood with locking device;
- ③ Housing, bulkhead mounted;
- ④ Mounting plate.

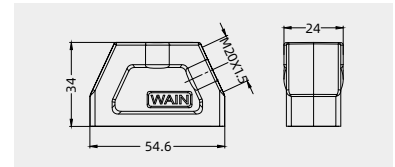
Hoods/Housings

Remark: SPQ is 1pc

Hoods, side entry



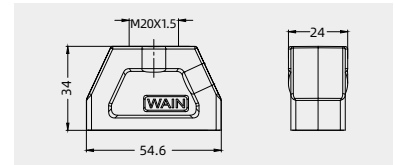
Thread	Designation	Order No.
M20	EMC.H1M.WU-SE-M20	129 001 590 1102



Hoods, top entry



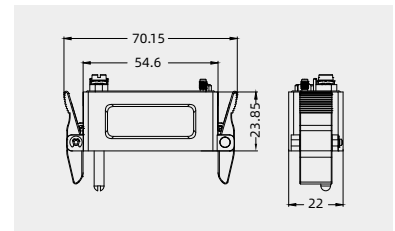
Thread	Designation	Order No.
M20	EMC.H1M.WU-TE-M20	129 001 490 1102



Carrier hood



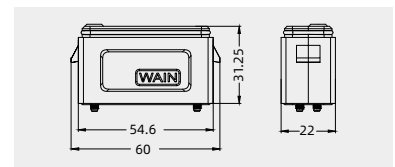
Thread	Designation	Order No.
---	EMC.H1M.WU-MBK-2L	129 001 340 1001



Bulkhead mounted housings



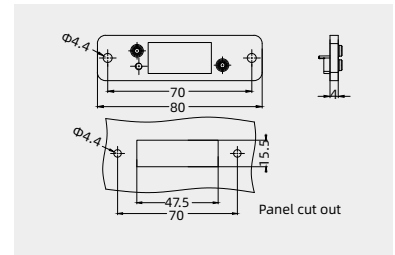
Thread	Designation	Order No.
---	EMC.H1M.WU-BK	129 001 300 1001



Mounting plate



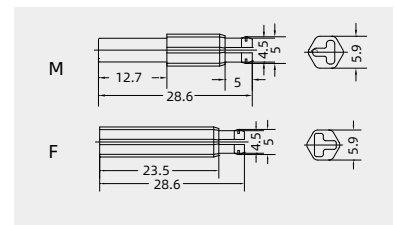
Thread	Designation	Order No.
---	EMC.H1M.WU-MP	129 001 000 1101



Coding element



Thread	Designation	Order No.
for Carrier hood Male	CODE-Q7M	198 002 005 0007
for Housings Female	CODE-Q7F	198 002 005 0008



HM

Metal enclosure for single module(EMC)

Product features

1. More compact, more powerful
2. Robust metal hoods/housings: zinc die-cast
3. Easy installation with the innovative PUSH LOCK
4. Protection against mismatching, thanks to hexagonal coding
5. Grounding solution for potential equalization
6. Large selection of standard modules
7. EMC design.

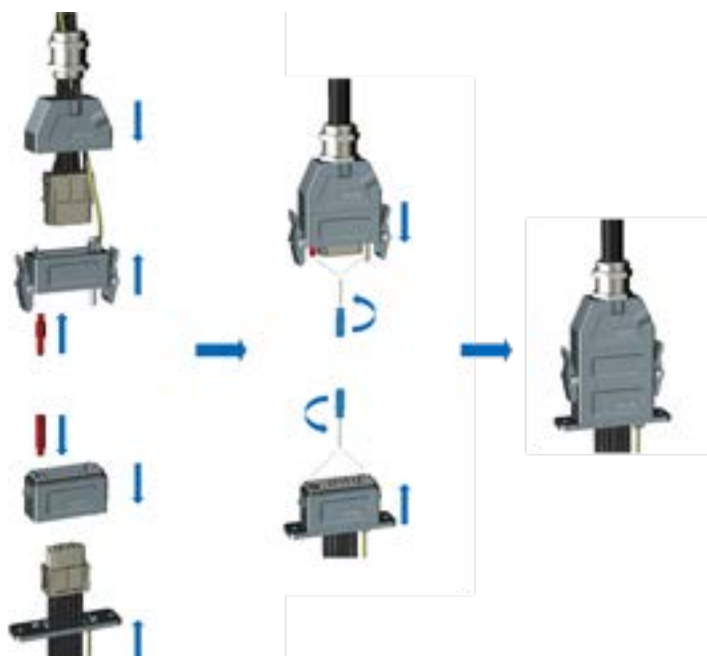


Assembly instructions

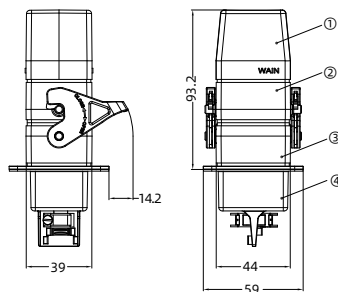
Step 1: cable will pass through cable connector. After crimping with pin (taking cold pressing pin as an example), it will be installed in male module (taking male module as an example), grounding wire will be locked at corresponding binding post of middle housing; the cable will pass through installation plate, which will be installed in the female module after crimping with pin, grounding wire will be locked at corresponding binding post; coding plug pin will be installed at selected direction, CODE-Q7M will be installed on middle housing and CODE-Q7F will be installed on the lower housing;

Step 2: cross screwdriver will be used to lock M3 screws on the middle housing and upper housing tightly to fix the male module; cross screwdriver will be used to lock M3 screws on the lower housing and face plate tightly to fix the female module; the cable connector will be tightened;

Step 3: after insertion, installation is completed.



H2M metal enclosure for double module (EMC)



Component

- ① Hood with top or side entry;
- ② Carrier hood;
- ③ Housing with lever;
- ④ Mounting plate.

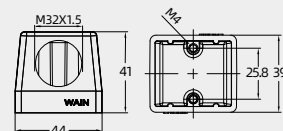
Hoods/Housings

Remark: SPQ is 1pc

Hoods, side entry



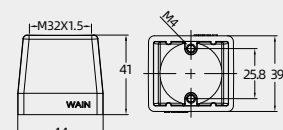
Thread	Designation	Order No.
M25	H2M-SE-M25	129 002 500 1001



Hoods, top entry



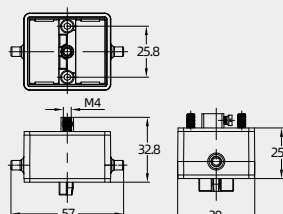
Thread	Designation	Order No.
M25	H2M-TE-M25	129 002 400 1002
M32	H2M-TE-M32	129 002 400 1001



Carrier hood



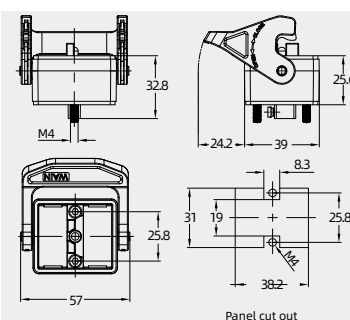
Thread	Designation	Order No.
---	H2M-MBK-2B	129 002 310 1001



Bulkhead mounted housings



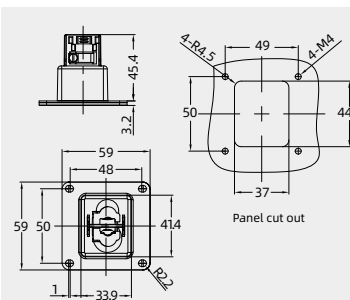
Thread	Designation	Order No.
---	H2M-BK-1L	129 002 320 1001



Mounting plate



Thread	Designation	Order No.
---	H2M-2CLP/BK	129 002 300 1001



HM

H2M metal enclosure for double module (EMC)

Product features

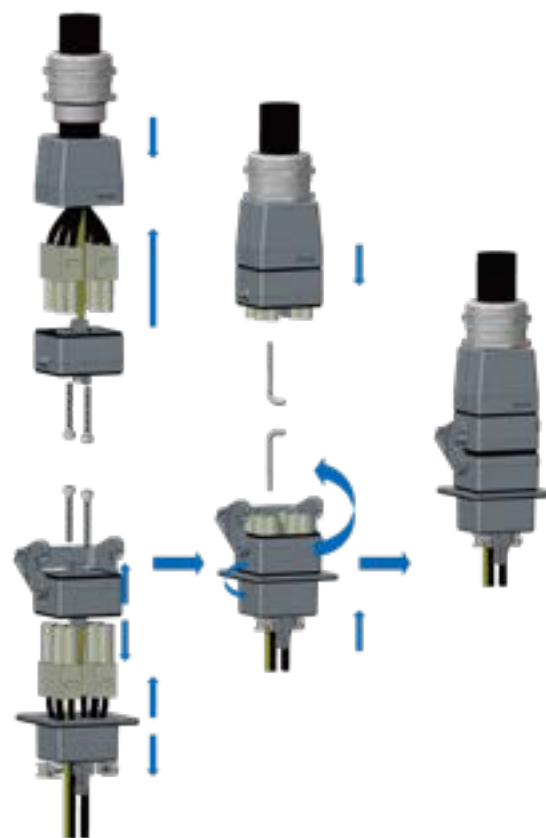
1. More compact, more powerful;
2. Five entry choices for hood;
3. Grounding solution for potential equalization;
4. Protection against mismatching;
5. EMC design;
6. Matching a variety of single module inserts,
and can be used any two single module inserts at the same time.

Assembly instructions

Step 1: Cable will pass through cable gland. After crimping with contact (taking crimp contact as an example), it will be installed in male module (taking male module as an example), grounding wire will be locked at corresponding binding post of middle housing; the cable will pass through installation plate, which will be installed in the female module after crimping with contact, grounding wire will be locked at corresponding binding post;

Step 2: SW3 internal hexagonal wrench will be used to lock M4 screws on the middle housing and hood tightly to fix the male module; internal hexagonal wrench will be used to lock M4 screws on the housing and installation plate tightly to fix the female module; the cable gland will be tightened;

Step 3: After insertion and locking the lever, installation is completed.



Modular Accessories

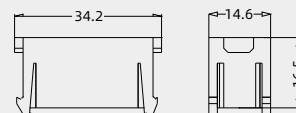
Remark: SPQ is 1pc

Unit: mm

Dummy module



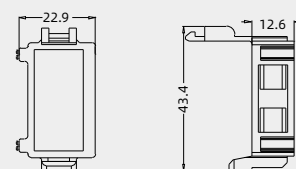
Description	Designation	Order No.
It is used to fill the spare module space in the fixed frame	HM-000	198 002 099 0008



Module clamp



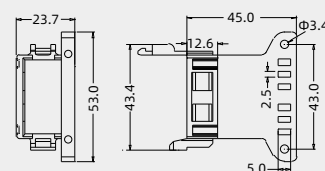
Description	Designation	Order No.
Applicable to with claw module, without strain relief	HM-CP1	198 002 003 0026



Module clamp



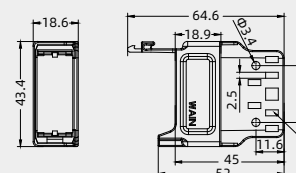
Description	Designation	Order No.
Applicable to with claw module, with strain relief -available to fix wires	HM-CP2	198 002 003 0027



Module clamp



Description	Designation	Order No.
Applicable to module, with strain relief -available to fix wires	HM-CP2/2	198 002 003 0030



Modular Accessories

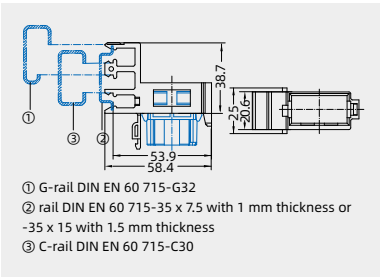
Remark: SPQ is 1pc

Unit: mm

Module clamp



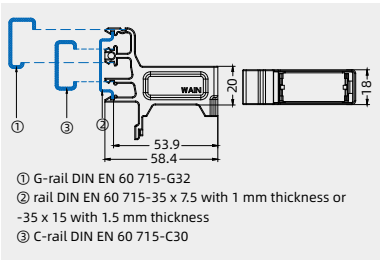
Description	Designation	Order No.
Applicable to with claw module module , for rail	HM-CP3	198 002 003 0028



Module clamp



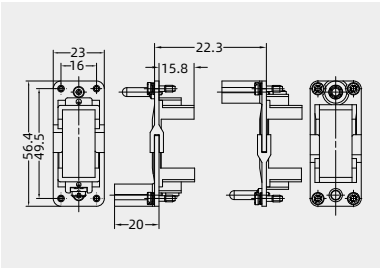
Description	Designation	Order No.
Applicable to module, for rail	HM-CP3/2	198 002 003 0029



Hinged frame, size 10A hoods/housings



Description	Designation	Order No.
for 1 module	HF10A	129 010 000 1091

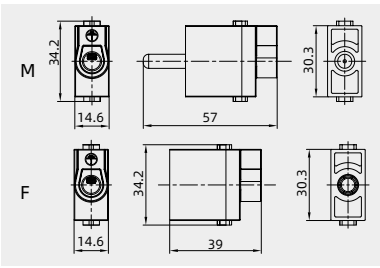


Grounding module



Description	Designation	Order No.
Only suitable for modular type plastic hoods/housings	HMPE-001-M	129 001 001 0505
	HMPE-001-F	129 001 002 0503

Only suitable for modular type plastic hoods/housings, Please refer to P15-25.1, P15-25.2, P15-39.1, P15-39.2, P15-108.2, P15-108.3



H2MK300-001 Crimp module

1000V 300A

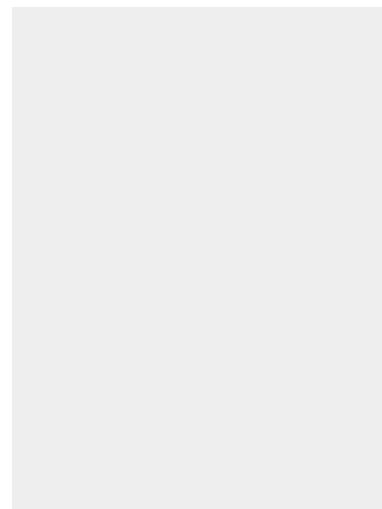
Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	1
Electrical data acc. to EN 61 984	
- Rated current	100A
- Rated voltage	830V
- Rated impulse voltage	8kV
- Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	≥ 500
- mating cycles	
Contacts	
Material	copper alloy
Surface	hard-silver plated
Contact resistance	$\leq 0.3\text{m}\Omega$
Crimp terminal	
- mm ²	70-120mm ²
- Stripping length	23.5mm
(When the outer diameter of the cable insulation layer $\geq 22\text{mm}$, male contact : 31mm, Female contact : 29.5mm)	

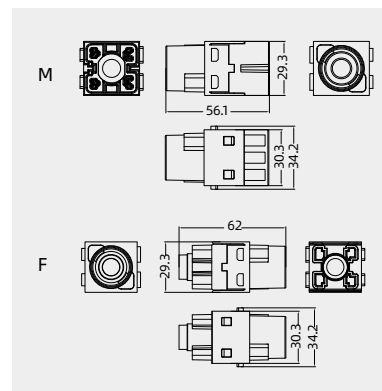


Crimp terminal

Order crimp contacts separately

Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	H2MK300-001-MC	129 001 010 0510
Female	H2MK300-001-FC	129 001 020 0510



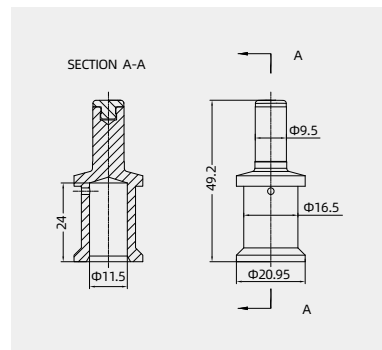
Crimp contacts

Remark: SPQ is 1pc

Crimp contacts 300A

Contact resistance $\leq 0.3 \text{ m}\Omega$
silver plated

Male	Order No.	Female	Order No.
CHSM300-70	101 041 110 1950	CHSF300-70	101 041 120 1950
CHSM300-95	101 041 110 2050	CHSF300-95	101 041 120 2050
CHSM300-120	101 041 110 2150	CHSF300-120	101 041 120 2150



Tools

Manual hydraulic clamp

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
10-240mm ²	TL05	198 001 001 0005



Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.

H2MK-001 Axial module

1000V 200A

Inserts



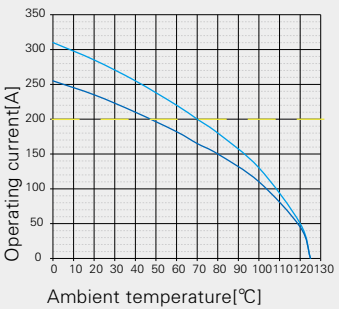
Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	1
Electrical dataacc. to EN 61 984	
-Rated current	200A
-Rated voltage	1000V
-Rated impulse voltage	8kV
-Pollution degree	3
Rated voltage acc. to UL	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40°C ...+125°C
Flammability acc. to UL 94	V0
Mechanical working life	≥ 500
- mating cycles	
Contacts	
Material	copper alloy
Surface	hard-silver plated
Contact resistance	0.2mΩ
For stranded wire according to IEC 60 228 Class 5	
Screw terminal	
- Wire gauge	25-70mm ²
- AWG	2-0
- Hexagonal driver	SW 5
- Stripping length	16mm
- Tightening torque	
-mm ²	25 35 50 70
-Nm	8 8 9 10

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals
Control and test procedures according to DIN EN 60512-5



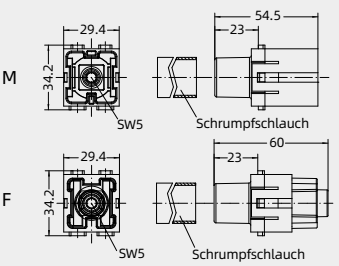
— 24 B hoods/housings with 3 modules, wire gauge: 70mm²
— 24 B hoods/housings with 3 modules, wire gauge: 50mm²

Axial screw terminal¹⁾



Remark: SPQ is 10pcs

Insert	Wire gauge	Designation	Order No.
Male	25-40mm ²	H2MK-001.1-M (25-40mm ²)	129 001 011 0101
	40-70mm ²	H2MK-001.2-M (40-70mm ²)	129 001 011 0102
Female	25-40mm ²	H2MK-001.1-F (25-40mm ²)	129 001 021 0101
	40-70mm ²	H2MK-001.2-F (40-70mm ²)	129 001 021 0102



Accessories

Tool

hexagonal driver

Remark: SPQ is 1pc

Description	Designation	Order No.
for axial setscrew with grip	SW-5*150	198 001 003 0007



¹⁾ See P00-12-00-13 for the structural characteristics and description of Axial screw terminal.

H2MKPE-001 Axial grounding module

1000V 200A+ 

Inserts



Combination with hinged frame and other modules possible.

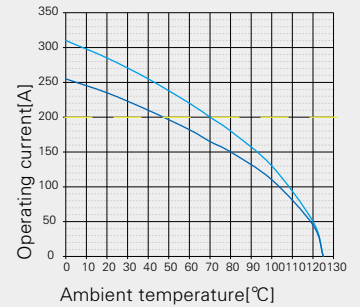
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	1
Limiting temperatures	-40°C ...+125°C
Mechanical working life	≥ 500
- mating cycles	
Max. insulation diameter	-
Material	polycarbonate
Surface	-
Contacts	
Material	copper alloy
Surface	hard-silver plated
For stranded wire according	≤ 0.2mΩ
Crimp terminal	
-mm ²	25-70 mm ²
- AWG	2-0
- Hexagonal driver	SW 5
- Stripping length	16mm
- Tightening torque	
-mm ²	25 35 50 70
-Nm	8 8 9 10

Current carrying capacity

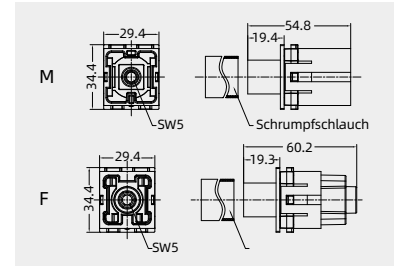
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5

Axial screw terminal¹⁾

Remark: SPQ is 10pcs

Insert	Wire gauge	Designation	Order No.
Male	25-40mm ²	H2MKPE-001.1-M(25-40mm ²)	129 001 011 0001
	40-70mm ²	H2MKPE-001.2-M(40-70mm ²)	129 001 011 0002
Female	25-40mm ²	H2MKPE-001.1-F(25-40mm ²)	129 001 021 0001
	40-70mm ²	H2MKPE-001.2-F(40-70mm ²)	129 001 021 0002



Accessories

Tool

hexagonal driver



Remark: SPQ is 1pc

Description	Designation	Order No.
for axial setscrew with grip	SW-5*150	198 001 003 0007

H2MK-001 Crimp module

1000V 200A

Inserts



Combination with hinged frame and other modules possible.

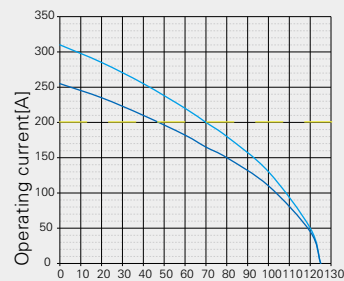
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	CE ENEC
Inserts	
Number of contacts	1
Electrical data acc. to EN 61 984	
- Rated current	200A
- Rated voltage	1000V
- Rated impulse voltage	8kV
- Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated
Contact resistance	$\leq 0.3\text{m}\Omega$
Crimp terminal	
- mm ²	25-70mm ²
Stripping length	22.5mm
Max. insulation diameter	18mm

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Ambient temperature[°C]

— 24 B hoods/housings with 3 modules,
wire gauge: 70mm²
— 24 B hoods/housings with 3 modules,
wire gauge: 50mm²

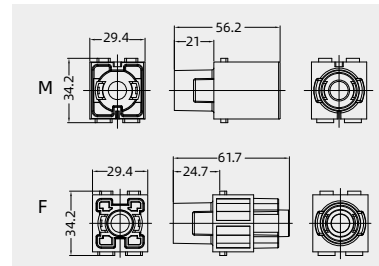
Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	H2MK-001-MC	129 001 010 0101
Female	H2MK-001-FC	129 001 020 0101



Crimp contacts

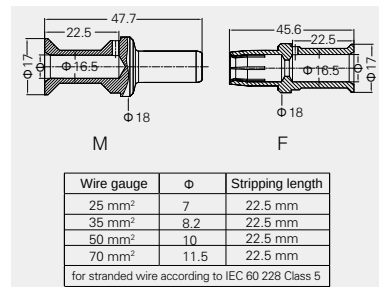
Remark: SPQ is 1pc

Crimp contacts 200A

Contact resistance $\leq 0.3 \text{ m}\Omega$
silver plated



Male	Order No.	Female	Order No.
CHSM200-25	101 027 110 1601	CHSF200-25	101 027 120 1601
CHSM200-35	101 027 110 1701	CHSF200-35	101 027 120 1701
CHSM200-50	101 027 110 1801	CHSF200-50	101 027 120 1801
CHSM200-70	101 027 110 1901	CHSF200-70	101 027 120 1901



Tools

Manual hydraulic clamp



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
10-240mm ²	TL05	198 001 001 0005

Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.

H2MK-001 Crimp module

1000V 200A

Inserts

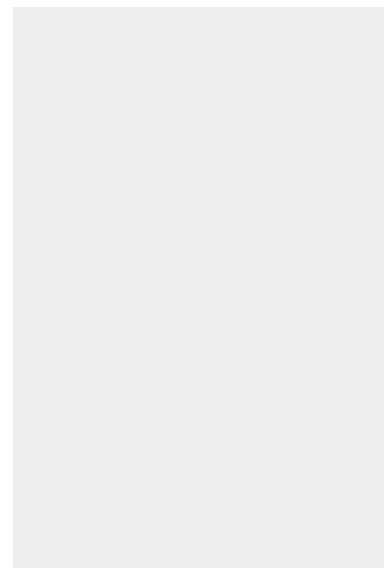


Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664
	DIN EN 61 984

Inserts		Contacts	
Number of contacts	1	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated
-Rated current	200A	Contact resistance	≤ 0.3mΩ
-Rated voltage	1000V	Crimp terminal	
-Rated impulse voltage	8kV	- mm ²	25-70mm ²
-Pollution degree	3	Stripping length	22.5mm
Insulation resistance	≥ 10 ¹⁰ Ω	Max. insulation diameter	18mm
Material	polycarbonate		
Limiting temperatures	-40°C ...+125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

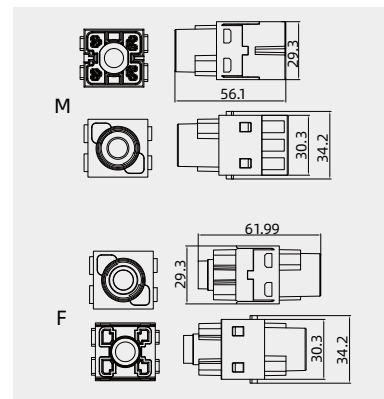


Crimp terminal
Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	H2MK-001-MC/C	129 001 010 0512
Female	H2MK-001-FC/C	129 001 020 0512



Not compatible with 200A module (10-16/10-18),
compatible with 300A module (10-15.1)

Crimp contacts

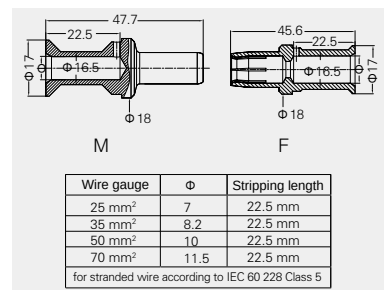
Remark: SPQ is 1pc

Crimp contacts 200A

Contact resistance $\leq 0.3 m\Omega$
silver plated



Male	Order No.	Female	Order No.
CHSM200-25	101 027 110 1601	CHSF200-25	101 027 120 1601
CHSM200-35	101 027 110 1701	CHSF200-35	101 027 120 1701
CHSM200-50	101 027 110 1801	CHSF200-50	101 027 120 1801
CHSM200-70	101 027 110 1901	CHSF200-70	101 027 120 1901



Tools

Manual hydraulic clamp



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
10-240mm ²	TL05	198 001 001 0005

Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.

HMK-001 Crimp module

830V 100A

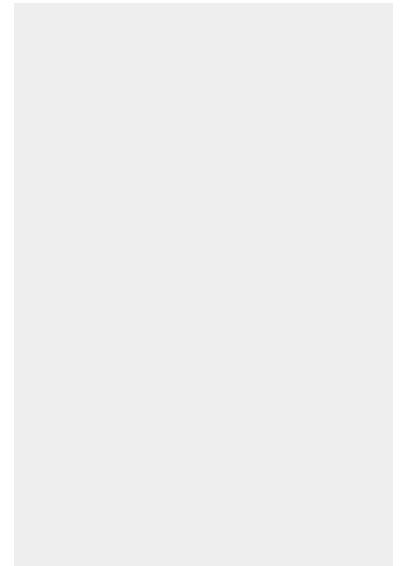
Inserts



Combination with hinged frame and other modules possible.
Cannot match the metal hood with side entry: EMC.H1M.WU-SE-M20.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	CE ENEC
Inserts	
Number of contacts	1
Electrical data acc. to EN 61 984	
- Rated current	100A
- Rated voltage	830V
- Rated impulse voltage	8kV
- Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Max. insulation diameter	13mm



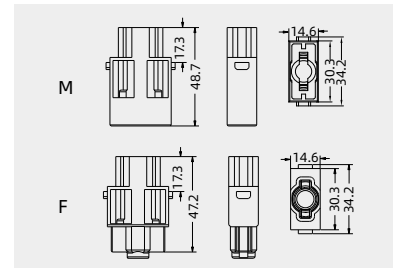
Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMK-001-MC	129 001 010 0001
Female	HMK-001-FC	129 001 020 0001



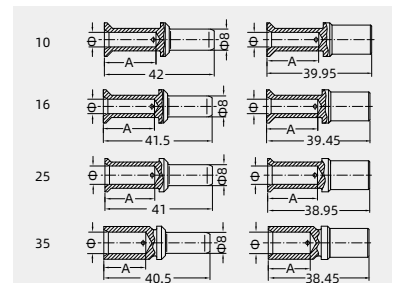
Crimp contacts

Remark: SPQ is 5pcs

Crimp contacts 100A

Contact resistance $\leq 0.3 \text{ m}\Omega$
silver plated

Male	Order No.	Female	Order No.
CKSM-10	101 026 110 1401	CKSF-10G	101 026 120 1403
CKSM-16	101 026 110 1501	CKSF-16G	101 026 120 1503
CKSM-25	101 026 110 1601	CKSF-25G	101 026 120 1603
CKSM-35	101 026 110 1701	CKSF-35G	101 026 120 1703



Wire gauge	Φ	Stripping length(A)
10 mm ²	4.3	19 mm
16 mm ²	5.5	19 mm
25 mm ²	7	19 mm
35 mm ²	8.2	16 mm

for stranded wire acc. to IEC 60 228 Class 5

Tools

Manual hydraulic clamp



Contact removal tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
10-240mm ²	TL05	198 001 001 0005

Application	Designation	Order No.
for crimp contacts 100A	TL11	198 001 000 0018

Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.

HMPE.M Axial grounding module

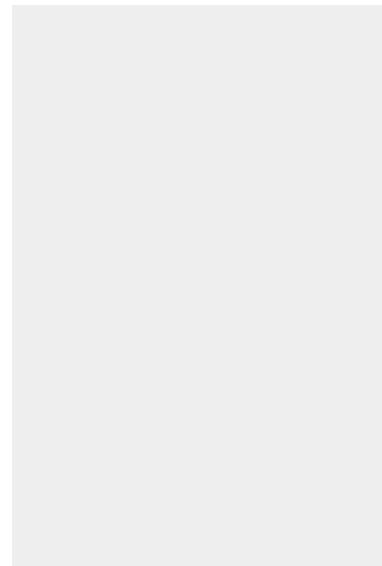
Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

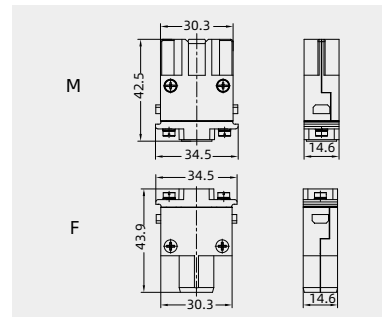
Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	1
Limiting temperatures	-40°C ...+125°C
Mechanical working life	
- mating cycles	≥ 500
Material	zinc alloy
Surface	nickeling
Contacts	
Material	copper alloy
Surface	hard-silver plated
For stranded wire according to IEC 60 228 Class 5	0.3mΩ
Screw terminal	
- Wire gauge	10-35mm ²
- AWG	6-2
- Hexagonal driver	SW 4
- Stripping length	13mm
- Tightening torque	
-mm ²	10 16 25 35
-Nm	6 6 7 8

Axial screw terminal¹⁾

Remark: SPQ is 10pcs



Insert	Wire gauge	Designation	Order No.
Male	10-25mm ²	HMPE.M-001.1-M	129 001 001 0507
	16-35mm ²	HMPE.M-001.2-M	129 001 001 0508
Female	10-25mm ²	HMPE.M-001.1-F	129 001 002 0504
	16-35mm ²	HMPE.M-001.2-F	129 001 002 0505



Accessories

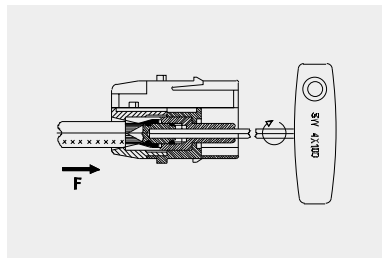
Remark: SPQ is 1pc

Tool

hexagonal driver



Description	Designation	Order No.
for axial setscrew with grip	SW-4*150	198 001 003 0007



HM

HMPE.M Crimp grounding module

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	1
Limiting temperatures	-40°C ...+125°C
Mechanical working life	≥ 500
- mating cycles	
Max. insulation diameter	13mm
Material	zinc alloy
Surface	nickeling
Contacts	
Material	copper alloy
Surface	hard-silver plated
For stranded wire according	≤ 0.3mΩ
Crimp terminal	
-mm ²	10-35mm ²

Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMPE.M-001-MC	129 001 010 0511
Female	HMPE.M-001-FC	129 001 020 0511

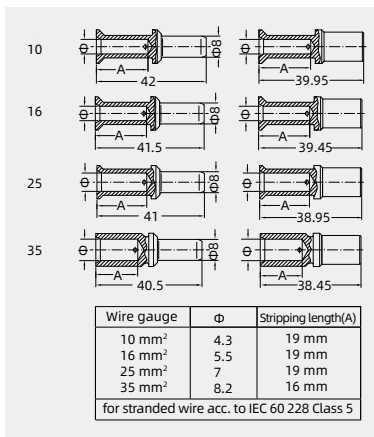
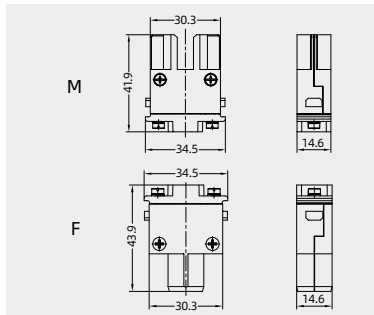
Crimp contacts

Crimp contacts 100A

Contact resistance ≤ 0.3 mΩ
silver plated

Remark: SPQ is 5pcs

Male	Order No.	Female	Order No.
CKSM-10	101 026 110 1401	CKSF-10G	101 026 120 1403
CKSM-16	101 026 110 1501	CKSF-16G	101 026 120 1503
CKSM-25	101 026 110 1601	CKSF-25G	101 026 120 1603
CKSM-35	101 026 110 1701	CKSF-35G	101 026 120 1703



Tools

Manual hydraulic clamp



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
10-240mm ²	TL05	198 001 001 0005

Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.

10-19.2 WAIN ELECTRICAL

1000V 100A

Inserts



Combination with hinged frame and other modules possible.

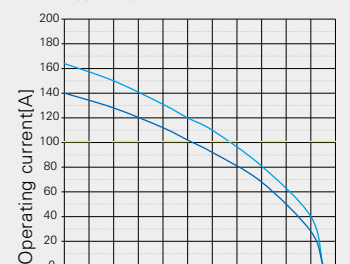
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts	Contacts		
Number of contacts	2	Material	copper alloy
Electrical dataacc. to EN 61 984		Surface	hard-silver plated
-Rated current	100A	Contact resistance	0.3mΩ
-Rated voltage	1000V	For stranded wire according	
-Rated impulse voltage	8kV	to IEC 60 228 Class 5	
-Pollution degree	3	Screw terminal	10-35mm ²
Rated voltage acc. to UL	600V	- Wire gauge	6-2
Insulation resistance	≥ 10 ¹⁰ Ω	- AWG	SW 4
Material	polycarbonate	- Hexagonal driver	13mm
Limiting temperatures	-40°C ...+125°C	- Stripping length	
Flammability acc. to UL 94	V0	- Tightening tourque	10 16 25 35
Mechanical working life		-mm ²	6 6 7 8
- mating cycles	≥ 500	-Nm	

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to
DIN EN 60512-5



Ambient temperature[°C]

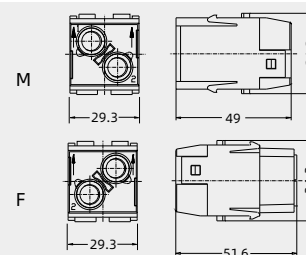
- 24 B hoods/housings with 3 modules,

- wire gauge: 35mm²
- 24 B hoods/housings with 3 modules, wire gauge: 25mm²

Axial screw terminal¹⁾



Insert	Wire gauge	Designation	Order No.
Male	10-25mm ²	H2MK-002.1-M (10-25mm ²)	129 002 011 0101
	16-35mm ²	H2MK-002.2-M (16-35mm ²)	129 002 011 0102
Female	10-25mm ²	H2MK-002.1-F (10-25mm ²)	129 002 021 0101
	16-35mm ²	H2MK-002.2-F (16-35mm ²)	129 002 021 0102



Accessories

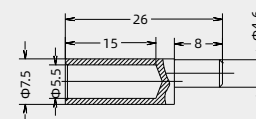
Remark: SPQ is 1 pc

Cable shoe 16mm²



Description	Designation	Order No.
for PE extension	PE-E16 ²⁾	198 002 006 0014

2) Use of PE pin is shown in P10-08.

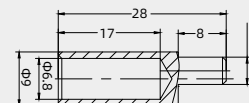


Cable shoe 25mm²



Description	Designation	Order No.
for PE extension	PE-E25 ²⁾	198 002 006 0020

2) Use of PE pin is shown in P10-08.
Suitable for metal frame: HFXB-NUA2/HFXB-NLA2



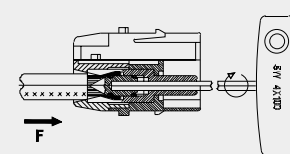
Tool

Remark: SPQ is 1pc

hexagonal driver



Description	Designation	Order No.
for axial setscrew with grip	SW-4*150	198 001 003 0001



1) See P00-12~00-13 for the structural characteristics and description of Axial screw terminal.

H2MK-002 Crimp module

1000V 100A

Inserts



Combination with hinged frame and other modules possible.

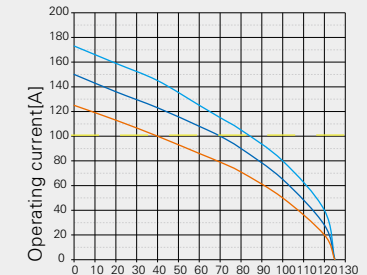
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	ENEC
Inserts	
Number of contacts	2
Electrical data acc. to EN 61 984	
- Rated current	100A
- Rated voltage	1000V
- Rated impulse voltage	8kV
- Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated
Contact resistance	$\leq 0.3\text{m}\Omega$
Crimp terminal	
- mm ²	10-35mm ²
Max. insulation diameter	14mm

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Ambient temperature [°C]

— 24 B hoods/housings with 3 modules, wire gauge: 35mm²
 — 24 B hoods/housings with 3 modules, wire gauge: 25mm²
 — 24 B hoods/housings with 3 modules, wire gauge: 16mm²

Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	H2MK-002-MC	129 002 010 0101
Female	H2MK-002-FC	129 002 020 0101

Crimp contacts

Remark: SPQ is 5pcs

Crimp contacts 100A

Contact resistance $\leq 0.3 \text{ m}\Omega$
silver plated

Male	Order No.	Female	Order No.
CKSM-10	101 026 110 1401	CKSF-10G	101 026 120 1403
CKSM-16	101 026 110 1501	CKSF-16G	101 026 120 1503
CKSM-25	101 026 110 1601	CKSF-25G	101 026 120 1603
CKSM-35	101 026 110 1701	CKSF-35G	101 026 120 1703

Remark: SPQ is 1pc

Tools

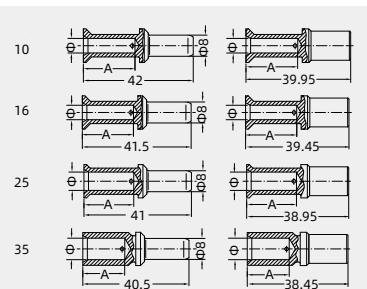
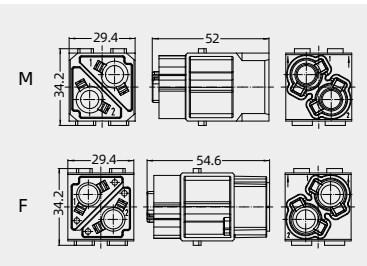
Manual hydraulic clamp



Contact removal tool



Wire gauge	Designation	Order No.
10-240mm ²	TL05	198 001 001 0005
Application	Designation	Order No.
for crimp contacts 100A	TL11	198 001 000 0018



Wire gauge	Φ	Stripping length(A)
10 mm ²	4.3	19 mm
16 mm ²	5.5	19 mm
25 mm ²	7	19 mm
35 mm ²	8.2	16 mm

for stranded wire acc. to IEC 60 228 Class 5

Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.

HMK70-002 Axial module

1000V 70A

Inserts



Combination with hinged frame and other modules possible.

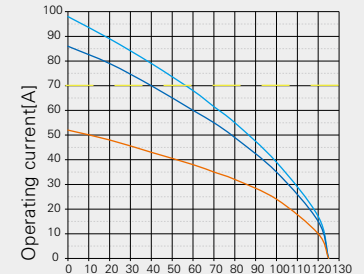
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	2
Electrical data acc. to EN 61 984	
-Rated current	70A
-Rated voltage	1000V
-Rated impulse voltage	8kV
-Pollution degree	3
Rated voltage acc. to UL	600V
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated
Contact resistance	0.5m Ω
For stranded wire according to IEC 60 228 Class 5	
Screw terminal	
-mm ²	6-22mm ²
-AWG	8-4
-Hexagonal driver	SW 2.5
-Stripping length	
-mm ²	6 10 16 22
-mm ²	11 ⁺¹ 11 ⁺¹ 11 ⁺¹ 12.5 ⁺¹
-Tightening torque	
-mm ²	6 10 16 22
-Nm	2 3 4 5

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Ambient temperature[°C]

— 24 B hoods/housings with 6 modules, wire gauge: 22mm²
 — 24 B hoods/housings with 6 modules, wire gauge: 16mm²
 — 24 B hoods/housings with 6 modules, wire gauge: 6mm²

Axial screw terminal¹⁾

Remark: SPQ is 10pcs

Insert	Wire gauge	Designation	Order No.
Male	6-16mm ²	HMK70-002.1-M (6-16mm ²)	129 002 011 0201
	14-22mm ²	HMK70-002.2-M (14-22mm ²)	129 002 011 0202
Female	6-16mm ²	HMK70-002.1-F (6-16mm ²)	129 002 021 0201
	14-22mm ²	HMK70-002.2-F (14-22mm ²)	129 002 021 0202

Accessories

Remark: SPQ is 1pc

Tool

hexagonal driver



Description	Designation	Order No.
for axial setscrew with grip	SW-2.5*100	198 001 003 0003

1) See P00-12-00-13 for the structural characteristics and description of Axial screw terminal.

HMK70-002 Crimp Module

1000V 70A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals	UL, CE, ENEC		
Inserts			
Number of contacts	2	Contacts	
Electrical dataacc. to EN 61 984		Material	copper alloy
-Rated current	70A	Surface	hard-silver plated
-Rated voltage	1000V	Contact resistance	≤ 0.5mΩ
-Rated impulse voltage	8kV	Crimp terminal	
-Pollution degree	3	- wire gauge	10-25mm ²
Insulation resistance	≥ 1010Ω	Max. insulation diameter	11mm
Material	polycarbonate	Stripping length	15.5mm
Limiting temperatures	-40°C ...+125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

Remark: SPQ is 10pcs

Crimp terminal

Order crimp contacts separately



Insert	Designation	Order No.
Male	HMK70-002-MC	129 002 010 0201
Female	HMK70-002-FC	129 002 020 0201

Crimp contacts

Crimp contacts 70A

Contact resistance ≤ 0.5 mΩ
silver plated



Remark: SPQ is 5pcs

Male	Order No.	Female	Order No.
CKSM70-6	101 034 110 1301	CKSF70-6	101 034 120 1301
CKSM70-10	101 034 110 1401	CKSF70-10	101 034 120 1401
CKSM70-16	101 034 110 1501	CKSF70-16	101 034 120 1501
CKSM70-25	101 034 110 1601	CKSF70-25	101 034 120 1601

Tools

Manual hydraulic clamp



备注：标准包装量 1pc

Wire gauge	Designation	Order No.
10-240mm ²	TL05	198 001 001 0005

Remark: for wire gauge 6mm², need to order 2980010010037 TL05 6C die separately.

Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.

HMK-002 Axial module

1000V 40A

Inserts



...bination with hinged frame and other modules possible.

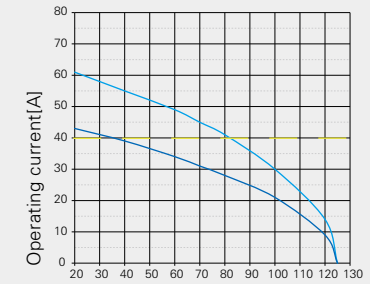
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	2
Electrical data acc. to EN 61 984	
- Rated current	40A
- Rated voltage	1000V
- Rated impulse voltage	8kV
- Pollution degree	3
Rated voltage acc. to UL	600V
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated
Contact resistance	1m Ω
Screw terminal	
- Wire gauge	2.5-10mm ²
- AWG	14-8
- Hexagonal driver	SW 2
- Stripping length	
- mm ²	2.5 4 6 10
- mm ²	5 ⁺¹ 5 ⁺¹ 8 ⁺¹ 11 ⁺¹
- Tightening torque	
- mm ²	2.5 4 6 10
- Nm	1.5 1.5 2 2

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Ambient temperature[°C]

— 24 B hoods/housings with 6 modules, wire gauge: 10mm²

— 24 B hoods/housings with 6 modules, wire gauge: 6mm²

Axial screw terminal¹⁾



Remark: SPQ is 10pcs

Insert	Wire gauge	Designation	Order No.
Male	2.5-8mm ²	HMK-002.1-M (2.5-8mm ²)	129 002 011 0003
	6-10mm ²	HMK-002.2-M (6-10mm ²)	129 002 011 0004
Female	2.5-8mm ²	HMK-002.1-F (2.5-8mm ²)	129 002 021 0003
	6-10mm ²	HMK-002.2-F (6-10mm ²)	129 002 021 0004

Accessories

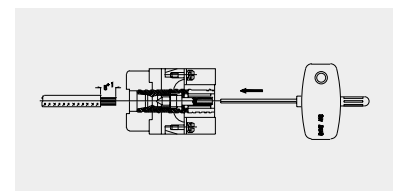
Remark: SPQ is 1pc

Tool

hexagonal driver



Description	Designation	Order No.
for axial setscrew with grip	SW-2*100	198 001 003 0002



1) See P00-12-00-13 for the structural characteristics and description of Axial screw terminal.

HMK-002 Crimp module

1000V 40A

Inserts



Combination with hinged frame and other modules possible.

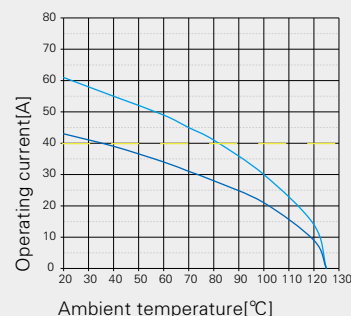
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	2	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated
-Rated current	40A	Contact resistance	$\leq 1\text{m}\Omega$
-Rated voltage	1000V	Crimp terminal	
-Rated impulse voltage	8kV	-mm ²	1.5-10mm ²
-Pollution degree	3	-AWG	16-8
Insulation resistance	$\geq 10^{10}\Omega$		
Material	polycarbonate		
Limiting temperatures	-40°C ... +125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Ambient temperature[°C]

— 24 B hoods/housings with 6 modules, wire gauge: 10mm²

— 24 B hoods/housings with 6 modules, wire gauge: 6mm²

Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMK-002-MC	129 002 010 0001
Female	HMK-002-FC	129 002 020 0001

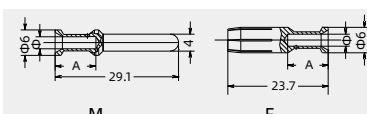
Crimp contacts

Crimp contacts 40A

Contact resistance $\leq 1\text{m}\Omega$
silver plated

Remark: SPQ is 50pcs

Male	Order No.	Female	Order No.
CCSM-1.5	101 023 110 0901	CCSF-1.5	101 023 120 0901
CCSM-2.5	101 023 110 1001	CCSF-2.5	101 023 120 1001
CCSM-4.0	101 023 110 1201	CCSF-4.0	101 023 120 1201
CCSM-6.0	101 023 110 1301	CCSF-6.0	101 023 120 1301
CCSM-10.0	101 023 110 1401	CCSF-10.0	101 023 120 1401



Wire gauge	Φ	Stripping length
1.5 mm ² AWG 16	1.75	9.6 mm
2.5mm ² AWG 14	2.25	9.6 mm
4 mm ² AWG 12	2.85	9.6 mm
6 mm ² AWG 10	3.5	9.6 mm
10 mm ² AWG 8	4.3	12 mm

Stripping length A = 15 mm for cables ≥ 5 mm
Stripping length A = 18 mm for cables ≥ 6.4 mm

Tools

Crimping tool



Contact removal tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
1.5-6mm ²	TL02-0G	198 001 001 0012
4/6/10mm ²	TL02-3G	198 001 001 0013

Application	Designation	Order No.
for crimp contacts 40A	TL06G	198 001 000 0009

Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.

HMK-002 Welding Module

500V 40A



Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

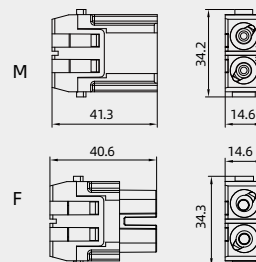
Specifications	DIN EN 60 664		
	DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	2	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated
-Rated current	40A	Contact resistance	$\leq 3\text{m}\Omega$
-Rated voltage	500V	Connection Method	PCB Soldering
-Rated impulse voltage	6kV		
-Pollution degree	3		
Material	polycarbonate		
Limiting temperatures	-40°C ... +125°C		

Soldering

Remark: SPQ is 10pcs



Insert	Designation	Order No.
Male	HMK-002-MD	129 002 010 0002
Female	HMK-002-FD	129 002 020 0508



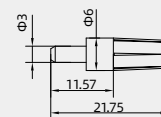
Adapter Pin

Soldered Adapter Pin (40A)

Contact resistance $\leq 3\text{ m}\Omega$
silver plated

Remark: SPQ is 50pcs

Connection Method	Designation	Order No.
PCB Soldering	CCSF-4.0D	101 023 120 0050



HM

HMK-003 Axial module

690V 40A

Inserts



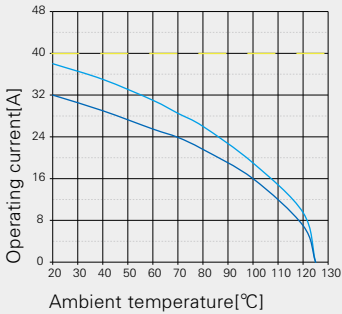
Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	3
Electrical dataacc. to EN 61 984	
-Rated current	40A
-Rated voltage	690V
-Rated impulse voltage	8kV
-Pollution degree	3
Rated voltage acc. to UL	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40°C ...+125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated
Contact resistance	1mΩ
Screw terminal	
- Wire gauge	2.5-10mm ²
-AWG	14-8
-Hexagonal driver	SW 2
- Stripping length	
-mm ²	2.5 4 6 10
-mm ²	5 ⁺¹ 5 ⁺¹ 8 ⁺¹ 11 ⁺¹
-Tightening tourque	
-mm ²	2.5 4 6 10
-Nm	1.5 1.5 2 2

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals
Control and test procedures according to DIN EN 60512-5



— 24 B hoods/housings with 6 modules,
wire gauge: 6mm²
— 24 B hoods/housings with 6 modules,
wire gauge: 4mm²

Axial screw terminal¹⁾



Remark: SPQ is 10pcs

Insert	Wire gauge	Designation	Order No.
Male	2.5-8mm ²	HMK-003.1-M (2.5-8mm ²)	129 003 011 0001
	6-10mm ²	HMK-003.2-M (6-10mm ²)	129 003 011 0002
Female	2.5-8mm ²	HMK-003.1-F (2.5-8mm ²)	129 003 021 0001
	6-10mm ²	HMK-003.2-F (6-10mm ²)	129 003 021 0002

Accessories

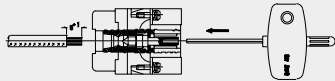
Remark: SPQ is 1pc

Tool

hexagonal driver



Description	Designation	Order No.
for axial setscrew with grip	SW-2*100	198 001 003 0002



1) See P00-12-00-13 for the structural characteristics and description of Axial screw terminal.

HMK-003 Crimp module

500V 40A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	3
Electrical data acc. to EN 61 984	
Cable diameter up to 7.5 mm	
- Rated current	40A
- Rated voltage	500V
- Rated impulse voltage	6kV
- Pollution degree	3
Rated voltage acc. to UL	600V
Rated current acc. to UL	32A
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500

Remark: SPQ is 10pcs

Crimp terminal

Order crimp contacts separately

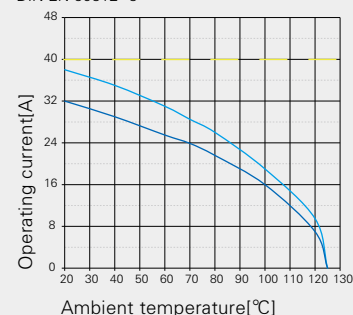


Insert	Designation	Order No.
Male	HMK-003-MC	129 003 010 0001
Female	HMK-003-FC	129 003 020 0001

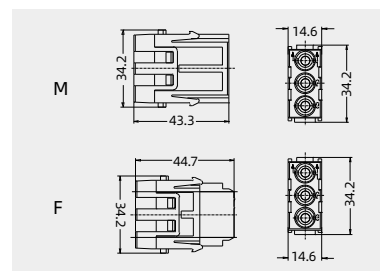
Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



— 24 B hoods/housings with 6 modules, wire gauge: 6mm²
 — 24 B hoods/housings with 6 modules, wire gauge: 4mm²



Crimp contacts

Crimp contacts 40A

Contact resistance $\leq 1\text{ m}\Omega$
silver plated

Remark: SPQ is 50pcs

Male	Order No.	Female	Order No.
CCSM-1.5	101 023 110 0901	CCSF-1.5	101 023 120 0901
CCSM-2.5	101 023 110 1001	CCSF-2.5	101 023 120 1001
CCSM-4.0	101 023 110 1201	CCSF-4.0	101 023 120 1201
CCSM-6.0	101 023 110 1301	CCSF-6.0	101 023 120 1301
CCSM-10.0	101 023 110 1401	CCSF-10.0	101 023 120 1401

M		F	
Wire gauge	Φ	Stripping length	
1.5 mm²	AWG 16	1.75	9.6 mm
2.5 mm²	AWG 14	2.25	9.6 mm
4 mm²	AWG 12	2.85	9.6 mm
6 mm²	AWG 10	3.5	9.6 mm
10 mm²	AWG 8	4.3	12 mm
Stripping length A = 15 mm for cables $\geq 5\text{ mm}$			
Stripping length A = 18 mm for cables $\geq 6.4\text{ mm}$			

Tools

Crimping tool



Contact removal tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
1.5-6mm²	TL02-0G	198 001 001 0012
4/6/10mm²	TL02-3G	198 001 001 0013

Application	Designation	Order No.
for crimp contacts 40A	TL06G	198 001 000 0009

Notes: The tools for crimp terminal may influence the product quality and stability.
 Please select the tools recognized by our company.

HMK-003 Crimp module

690V 40A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	3
Electrical data acc. to EN 61 984	
Cable diameter up to 7.5 mm	
-Rated current	40A
-Rated voltage	690V
-Rated impulse voltage	8kV
-Pollution degree	3
Rated voltage acc. to UL	600V
Rated current acc. to UL	40A
Insulation resistance	$\geq 10^{10} \Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500

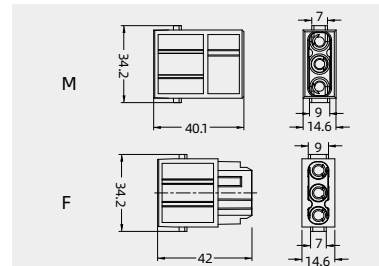
Remark: SPQ is 10pcs

Crimp terminal

Order crimp contacts separately



Insert	Designation	Order No.
Male	HMK-003-MC-V2	129 003 010 0504
Female	HMK-003-FC-V2	129 003 020 0504



Crimp contacts

Crimp contacts 40A

Contact resistance $\leq 1 \text{ m}\Omega$
silver plated

Remark: SPQ is 50pcs

Male	Order No.	Female	Order No.
CCSM-1.5	101 023 110 0901	CCSF-1.5	101 023 120 0901
CCSM-2.5	101 023 110 1001	CCSF-2.5	101 023 120 1001
CCSM-4.0	101 023 110 1201	CCSF-4.0	101 023 120 1201
CCSM-6.0	101 023 110 1301	CCSF-6.0	101 023 120 1301
CCSM-10.0	101 023 110 1401	CCSF-10.0	101 023 120 1401

M		F	
Wire gauge	Φ	Stripping length	
1.5 mm ²	AWG 16	1.75	9.6 mm
2.5 mm ²	AWG 14	2.25	9.6 mm
4 mm ²	AWG 12	2.85	9.6 mm
6 mm ²	AWG 10	3.5	9.6 mm
10 mm ²	AWG 8	4.3	12 mm
Stripping length A = 15 mm for cables $\geq 5 \text{ mm}$			
Stripping length A = 18 mm for cables $\geq 6.4 \text{ mm}$			

Tools

Crimping tool



Contact removal tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
1.5-6 mm ²	TL02-0G	198 001 001 0012
4/6/10 mm ²	TL02-3G	198 001 001 0013
Application	Designation	Order No.
for crimp contacts 40A	TL06G	198 001 000 0009

Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.

HMK-003 Cage-clamp module

690V 40A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664
	DIN EN 61 984

Inserts		Contacts	
Number of contacts	3	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated
-Rated current	40A	Cage clamp module	
-Rated voltage	690V	-mm ²	1.5-6mm ²
-Rated impulse voltage	8kV	-AWG	16-10
-Pollution degree	3		
Rated voltage acc. to UL	600V		
Insulation resistance	≥ 10 ¹⁰ Ω		
Material	polycarbonate		
Limiting temperatures	-40°C ...+125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

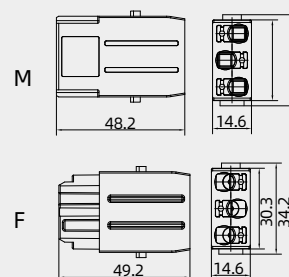
Cage clamp module (Quick-in)



Remark: SPQ is 10pcs



Insert	Designation	Order No.
Male	HMK-003-MQ	129 003 010 0507
Female	HMK-003-FQ	129 003 020 0507



HMK-003/4 Crimp module

830/830V 40/10A

Inserts



Combination with hinged frame and other modules possible.

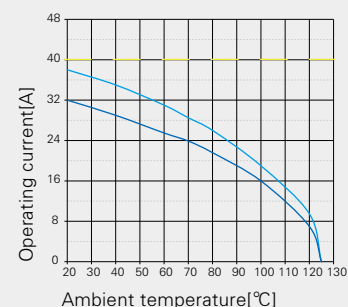
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	3/4	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated hard-gold plated
Power contacts		Contact resistance	
- Rated current	40A	- Power contacts	≤ 1mΩ
- Rated voltage	830V	- Signal contacts	≤ 3mΩ
- Rated impulse voltage	8kV	Crimp terminal	
- Pollution degree	3	- mm ²	
Signal contacts		- Power contacts	1.5-6mm ²
- Rated current	10A	- Signal contacts	0.14-2.5mm ²
- Rated voltage	830V	- AWG	
- Rated impulse voltage	8kV	- Power contacts	16-10
- Pollution degree	3	- Signal contacts	26-14
Rated voltage acc. to UL	600V	Max. insulation diameter	
Insulation resistance	≥ 10 ¹⁰ Ω	- Power contacts	5mm
Material	polycarbonate		
Limiting temperatures	-40°C ... +125°C		
Flammability acc. to UL 94	V0		
Mechanical working life	≥ 500		

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



— 24 B hoods/housings with 6 modules, wire gauge: 6mm²

— 24 B hoods/housings with 6 modules, wire gauge: 4mm²

Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMK-003/4-MC	129 007 010 0001
Female	HMK-003/4-FC	129 007 020 0001

Crimp contacts

Crimp contacts 40A/10A

Contact resistance ≤ 1 mΩ
silver platedContact resistance ≤ 3 mΩ
silver platedContact resistance ≤ 3mΩ
gold platedMore crimp contacts 10A
see P13-02,P13-03.

Male	Order No.	Female	Order No.
CCSM-1.5	101 023 110 0901	CCSF-1.5	101 023 120 0901
CCSM-2.5	101 023 110 1001	CCSF-2.5	101 023 120 1001
CCSM-4.0	101 023 110 1201	CCSF-4.0	101 023 120 1201
CCSM-6.0	101 023 110 1301	CCSF-6.0	101 023 120 1301
CCSM-10.0	101 023 110 1401	CCSF-10.0	101 023 120 1401

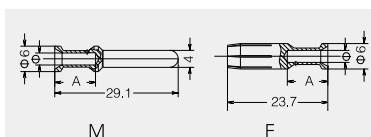
Remark: SPQ is 50pcs

CDSM-0.25	101 017 110 0101	CDSF-0.25	101 017 120 0101
CDSM-0.37	101 017 110 0301	CDSF-0.37	101 017 120 0301
CDSM-0.50	101 017 110 0401	CDSF-0.50	101 017 120 0401
CDSM-0.75	101 017 110 0601	CDSF-0.75	101 017 120 0601
CDSM-1.0	101 017 110 0801	CDSF-1.0	101 017 120 0801
CDSM-1.5	101 017 110 0901	CDSF-1.5	101 017 120 0901
CDSM-2.5	101 017 110 1001	CDSF-2.5	101 017 120 1001

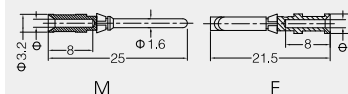
Remark: SPQ is 100pcs

CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001

Remark: SPQ is 100pcs



Wire gauge	Φ	Stripping length
1.5 mm ² AWG 16	1.75	9.6 mm
2.5mm ² AWG 14	2.25	9.6 mm
4 mm ² AWG 12	2.85	9.6 mm
6 mm ² AWG 10	3.5	9.6 mm



Wire gauge	Φ	Stripping length
0.09-0.25 mm ² AWG 28-24	0.65	5 mm
0.14-0.37 mm ² AWG 26-22	0.9	8 mm
0.5 mm ² AWG 20	1.1	8 mm
0.75 mm ² AWG 18	1.3	8 mm
1 mm ² AWG 18	1.45	8 mm
1.5 mm ² AWG 16	1.75	8 mm
2.5 mm ² AWG 14	2.25	6 mm

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL16.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

*Please find the details of crimp contact tools on page 32-02~32-05.

HMK-004 Crimp module

830V 40A

Inserts



Combination with hinged frame and other modules possible.

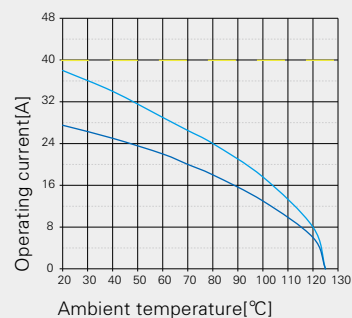
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	ENEC
Inserts	
Number of contacts	4
Electrical data acc. to EN 61 984	
Rated current	40A
Rated voltage	830V
Rated impulse voltage	8kV
Pollution degree	3
Rated voltage acc. to UL	600V
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ...+125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated
Contact resistance	$\leq 1m\Omega$
Crimp terminal	
-mm ²	1.5-6mm ²
-AWG	16-10

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMK-004-MC	129 004 010 0001
Female	HMK-004-FC	129 004 020 0001

Crimp contacts

Crimp contacts 40A

Contact resistance $\leq 1m\Omega$
silver plated

Remark: SPQ is 50pcs

Male	Order No.	Female	Order No.
CCSM-1.5	101 023 110 0901	CCSF-1.5	101 023 120 0901
CCSM-2.5	101 023 110 1001	CCSF-2.5	101 023 120 1001
CCSM-4.0	101 023 110 1201	CCSF-4.0	101 023 120 1201
CCSM-6.0	101 023 110 1301	CCSF-6.0	101 023 120 1301

Tools

Crimping tool



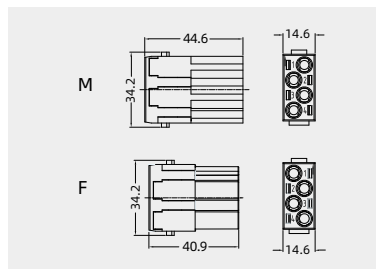
Contact removal tool



备注：标准包装量 10pc

Wire gauge	Designation	Order No.
1.5-6mm ²	TL02-0G	198 001 001 0012
4/6/10mm ²	TL02-3G	198 001 001 0013
Application	Designation	Order No.
for crimp contacts 40A	TL06G	198 001 000 0009

Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.



Wire gauge	Φ	Stripping length
1.5 mm ² AWG 16	1.75	9.6 mm
2.5mm ² AWG 14	2.25	9.6 mm
4 mm ² AWG 12	2.85	9.6 mm
6 mm ² AWG 10	3.5	9.6 mm

Stripping length A = 15 mm for cables ≥ 5 mm
Stripping length A = 18 mm for cables ≥ 6.4 mm

HMK-004 Cage-clamp module

830V 40A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Inserts		Contacts	
Number of contacts	4	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated
Rated current	40A	Contact resistance	≤ 3mΩ
Rated voltage	830V	Spring terminal(Quick-in)	
Rated impulse voltage	8kV	-mm ²	1.5-6mm ²
Pollution degree	3	-AWG	16-10
Rated voltage acc. to UL	600V		
Insulation resistance	≥ 10 ¹⁰ Ω		
Material	polycarbonate		
Limiting temperatures	-40°C ...+125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

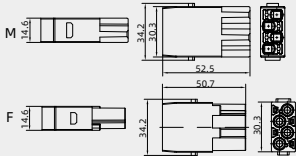


Remark: SPQ is 10pcs

Spring terminal(Quick-in)



Insert	Designation	Order No.
Male	HMK-004-MQ	129 004 010 0506
Female	HMK-004-FQ	129 004 020 0506



H2MVC-002 High voltage module

2900/5000V 40A

Inserts

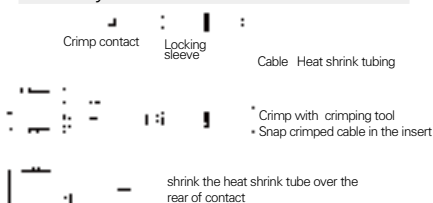


Combination with hinged frame and other modules possible.
Only suitable for high structure shells.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	2	Material	copper alloy
Electrical dataacc. to EN 61 984		Surface	hard-silver plated
-Rated current	40A	Contact resistance	$\leq 1\text{m}\Omega$
-Rated voltage conductor(ground)	2900V	Crimp terminal	
-Rated voltage conductor(conductor)	5000V	-mm ²	1.5-10mm ²
-Rated impulse voltage	15kV	-AWG	16-8
-Pollution degree	3		
Insulation resistance	$\geq 10^{10}\Omega$		
Material	polycarbonate/ PTFE		
Limiting temperatures	-40°C ...+125°C		
Flammability acc. to UL 94	V0		
Max. cable diameter	9mm		
Mechanical working life			
- mating cycles	≥ 500		

Assembly instructions



Remark: SPQ is 10pcs

Crimp terminal

Order crimp contacts separately



Insert	Designation	Order No.
Male	H2MVC-002-MC	129 002 010 0401
Female	H2MVC-002-FC	129 002 020 0401

Crimp contacts

Crimp contacts 40A

Contact resistance $\leq 1\text{m}\Omega$
silver plated

Remark: SPQ is 50pcs

Male	Order No.	Female	Order No.
CCSM-1.5	101 023 110 0901	CCSF-1.5	101 023 120 0901
CCSM-2.5	101 023 110 1001	CCSF-2.5	101 023 120 1001
CCSM-4.0	101 023 110 1201	CCSF-4.0	101 023 120 1201
CCSM-6.0	101 023 110 1301	CCSF-6.0	101 023 120 1301
CCSM-10.0	101 023 110 1401	CCSF-10.0	101 023 120 1401

Tools

Crimping tool



Contact removal tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
1.5-6mm ²	TL02-0G	198 001 001 0012
4/6/10mm ²	TL02-3G	198 001 001 0013

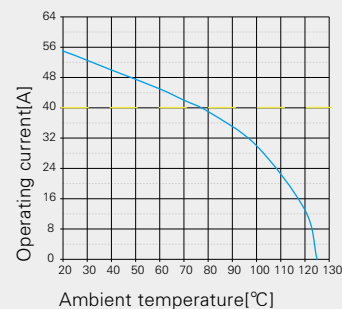
Application	Designation	Order No.
for locking sleeve	TL10	198 001 000 0014

Notes: The tools for crimp terminal may influence the product quality and stability.
Please select the tools recognized by our company.

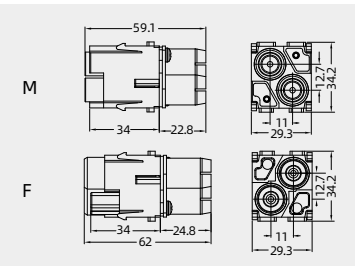
Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



— 24 B hoods/housings with 3 modules,
wire gauge: 6mm²



M		F	
Wire gauge	Φ	Stripping length	
1.5 mm ²	AWG 16	1.75	9.6 mm
2.5mm ²	AWG 14	2.25	9.6 mm
4 mm ²	AWG 12	2.85	9.6 mm
6 mm ²	AWG 10	3.5	9.6 mm
10 mm ²	AWG 8	4.3	12 mm

Stripping length A = 15 mm for cables $\geq 5\text{ mm}$
Stripping length A = 18 mm for cables $\geq 6.4\text{ mm}$

H2MVE-002 High voltage module

2900/5000V 16A

Inserts

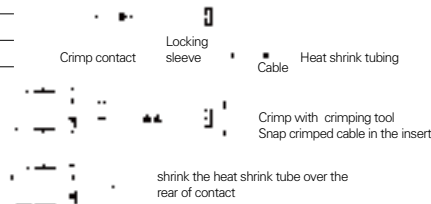


Combination with hinged frame and other modules possible.
Only suitable for high structure shells.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	2
Electrical data acc. to EN 61 984	
-Rated current	16A
-Rated voltage conductor(ground)	2900V
-Rated voltage conductor(conductor)	5000V
-Rated impulse voltage	15kV
-Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate/PTFE
Limiting temperatures	-40°C ...+125°C
Flammability acc. to UL 94	V0
Mechanical working life	
Mechanical working life	≥ 500
Contacts	
Material	copper alloy
Surface	- hard-silver plated - hard-gold plated
Contact resistance	$\leq 1m\Omega$
Crimp terminal	
-mm ²	0.5-4mm ²
-AWG	20-12

Assembly instructions

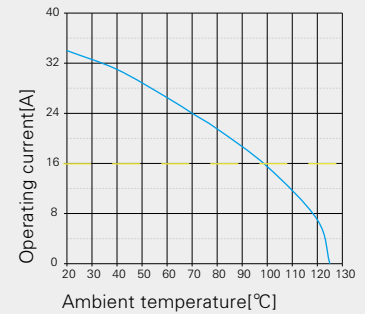


Remark: SPQ is 10pcs

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Crimp terminal

Order crimp contacts separately



Insert	Designation	Order No.
Male	H2MVE-002-MC	129 002 010 0301
Female	H2MVE-002-FC	129 002 020 0301

Crimp contacts

Crimp contacts 16A

Contact resistance $\leq 1m\Omega$
silver plated

gold plated



More crimp contacts 16A see P13-04.

Tools

Crimping tool

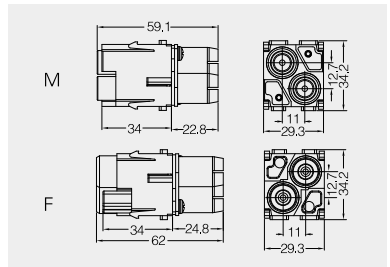


Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CESM-0.50	101 019 110 0401	CESF-0.50	101 019 120 0401
CESM-0.75	101 019 110 0601	CESF-0.75	101 019 120 0601
CESM-1.0	101 019 110 0801	CESF-1.0	101 019 120 0801
CESM-1.5	101 019 110 0901	CESF-1.5	101 019 120 0901
CESM-2.5	101 019 110 1001	CESF-2.5	101 019 120 1001
CESM-3.0	101 019 110 1101	CESF-3.0	101 019 120 1101
CESM-4.0	101 019 110 1201	CESF-4.0	101 019 120 1201
CEGM-0.50	101 019 210 0401	CEGF-0.50	101 019 220 0401
CEGM-0.75	101 019 210 0601	CEGF-0.75	101 019 220 0601
CEGM-1.0	101 019 210 0801	CEGF-1.0	101 019 220 0801
CEGM-1.5	101 019 210 0901	CEGF-1.5	101 019 220 0901
CEGM-2.5	101 019 210 1001	CEGF-2.5	101 019 220 1001
CEGM-3.0	101 019 210 1101	CEGF-3.0	101 019 220 1101
CEGM-4.0	101 019 210 1201	CEGF-4.0	101 019 220 1201

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011
Application	Designation	Order No.
for locking sleeve	TL10	198 001 000 0014



Identification	Wire gauge	Stripping length
no groove	0.5 mm ² AWG 20	7.5mm
1 groove	0.75 mm ² AWG 18	7.5mm
1 groove	1 mm ² AWG 18	7.5mm
2 grooves	1.5 mm ² AWG 16	7.5mm
3 grooves	2.5 mm ² AWG 14	7.5mm
wide groove	3 mm ² AWG 12	7.5mm
no groove	4 mm ² AWG 12	7.5mm

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMVE-002 High voltage module

2500V 16A



Inserts

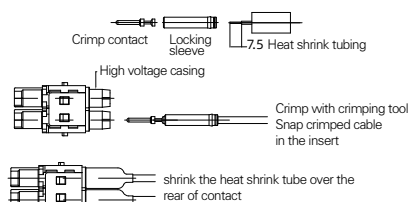


Combination with hinged frame and other modules possible.
Only suitable for high structure shells.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	2
Electrical data acc. to EN 61 984	
-Rated current	16A
-Rated voltage conductor(conductor)	2500V
-Rated impulse voltage	15kV
-Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate/PTFE
Limiting temperatures	-40°C ...+125°C
Flammability acc. to UL 94	V0
Mechanical working life	
Mechanical working life	≥ 500
Contacts	
Material	copper alloy
Surface	- hard-silver plated - hard-gold plated
Contact resistance	$\leq 1\text{m}\Omega$
Crimp terminal	
-mm ²	0.14-4mm ²
-AWG	26-12

Assembly instructions



Remark: SPQ is 10pcs

Crimp terminal

Order crimp contacts separately



Insert	Designation	Order No.
Male	HMVE-002-MC	129 002 020 0509
Female	HMVE-002-FC	129 002 010 0510

Crimp contacts

Crimp contacts 16A

Contact resistance $\leq 1\text{m}\Omega$
silver plated

gold plated



More crimp contacts 16A see P13-04.

Tools

Crimping tool



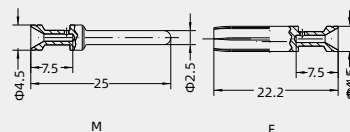
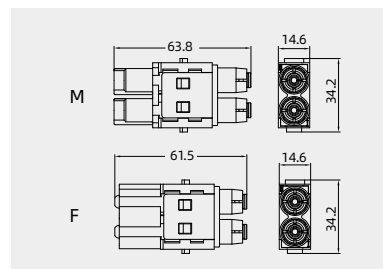
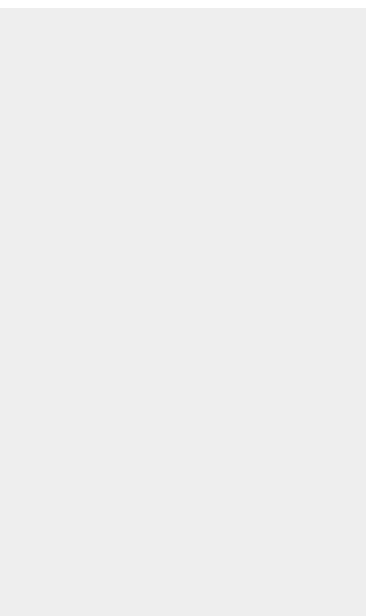
Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CESM-0.50	101 019 110 0401	CESF-0.50	101 019 120 0401
CESM-0.75	101 019 110 0601	CESF-0.75	101 019 120 0601
CESM-1.0	101 019 110 0801	CESF-1.0	101 019 120 0801
CESM-1.5	101 019 110 0901	CESF-1.5	101 019 120 0901
CESM-2.5	101 019 110 1001	CESF-2.5	101 019 120 1001
CESM-3.0	101 019 110 1101	CESF-3.0	101 019 120 1101
CESM-4.0	101 019 110 1201	CESF-4.0	101 019 120 1201
CEGM-0.50	101 019 210 0401	CEGF-0.50	101 019 220 0401
CEGM-0.75	101 019 210 0601	CEGF-0.75	101 019 220 0601
CEGM-1.0	101 019 210 0801	CEGF-1.0	101 019 220 0801
CEGM-1.5	101 019 210 0901	CEGF-1.5	101 019 220 0901
CEGM-2.5	101 019 210 1001	CEGF-2.5	101 019 220 1001
CEGM-3.0	101 019 210 1101	CEGF-3.0	101 019 220 1101
CEGM-4.0	101 019 210 1201	CEGF-4.0	101 019 220 1201

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011
Application	Designation	Order No.
for locking sleeve	TL33	198 001 000 0044

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.



Identification	Wire gauge	Stripping length
no groove	0.5 mm ² AWG 20	7.5mm
1 groove	0.75 mm ² AWG 18	7.5mm
1 groove	1 mm ² AWG 18	7.5mm
2 grooves	1.5 mm ² AWG 16	7.5mm
3 grooves	2.5 mm ² AWG 14	7.5mm
wide groove	3 mm ² AWG 12	7.5mm
no groove	4 mm ² AWG 12	7.5mm

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

HME-005 Screw module

230/400V 16A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	5	Material	copper alloy
Electrical data acc. to IEC 61984		Surface	hard-silver plated
Rated current	16A	Contact resistance	≤ 1mΩ
Rated voltage conductor -ground	230V	Screw terminal	
Rated voltage conductor - conductor	400V	-mm ²	0.5-4mm ²
Rated impulse voltage	4kV	-AWG	20-14
Pollution degree	3		
Insulation resistance	≥ 10 ¹⁰ Ω		
Material	polycarbonate		
Limiting temperatures	-40°C ...+125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

Screw terminal



Remark: SPQ is 10pcs

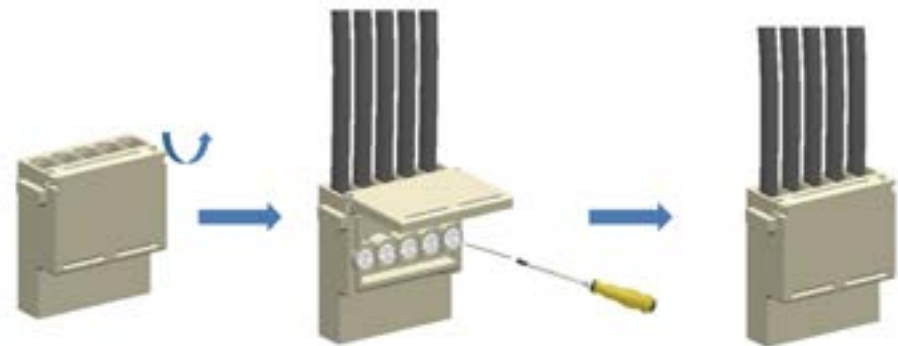
Insert	Designation	Order No.
Male	HME-005-M	129 005 011 0001
Female	HME-005-F	129 005 021 0001

Assembly instructions

Step 1:remove the cover.

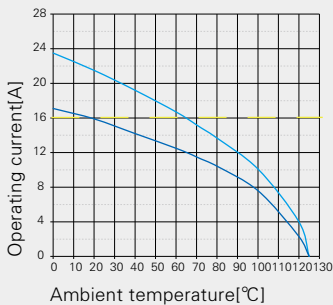
Step 2:install the wire from the top and fasten the side screw.

Step 3: put the cover on.

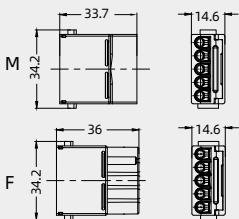


Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals
Control and test procedures according to DIN EN 60512-5



— 24 B hoods/housings with 6 modules, wire gauge: 2.5mm²
— 24 B hoods/housings with 6 modules, wire gauge: 1.5mm²



HME-005 Cage-clamp module

400V 16A

Inserts



Combination with hinged frame and other modules possible.

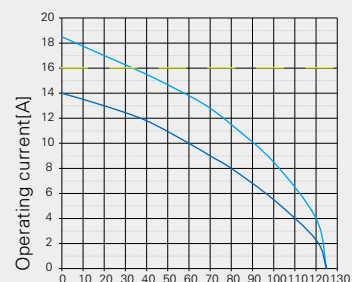
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts	Contacts		
Number of contacts	5	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated
-Rated current	16A	Contact resistance	≤ 3mΩ
-Rated voltage	400V	Spring terminal	
-Rated impulse voltage	6kV	-mm ²	0.14-2.5mm ²
-Pollution degree	3	-AWG	26-14
Rated voltage acc. to UL	600V		
Insulation resistance	≥ 10 ¹⁰ Ω		
Material	polycarbonate		
Limiting temperatures	-40°C ...+125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Ambient temperature[°C]

- 24 B hoods/housings with 6 modules, wire gauge: 2.5mm²
- 24 B hoods/housings with 6 modules, wire gauge: 1.5mm²

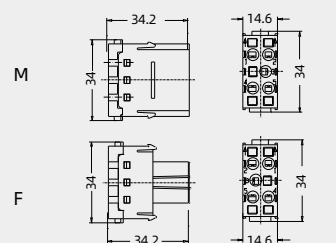
Cage-clamp terminal

See P00-14 for the structural characteristics of spring.



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HME-005-MS	129 005 012 0001
Female	HME-005-FS	129 005 022 0001



HME-006 Crimp module

500V 16A

Inserts



Combination with hinged frame and other modules possible.

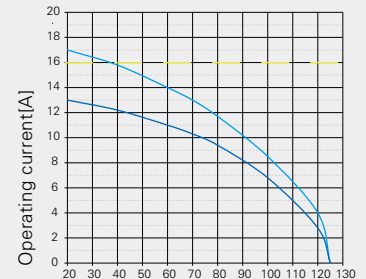
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	6	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated hard-gold plated
Rated current	16A	Contact resistance	≤ 1mΩ
Rated voltage	500V	Crimp terminal	
Rated impulse voltage	6kV	-mm ²	0.14-4mm ²
Pollution degree	3	-AWG	26-12
Rated voltage acc. to UL	600V		
Insulation resistance	≥ 10 ¹⁰ Ω		
Material	polycarbonate		
Limiting temperatures	-40°C ...+125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Ambient temperature[°C]

— 24 B hoods/housings with 6 modules,
wire gauge: 2.5mm²
— 24 B hoods/housings with 6 modules,
wire gauge: 1.5mm²

Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HME-006-MC	129 006 010 0001
Female	HME-006-FC	129 006 020 0001

Crimp contacts

Crimp contacts 16A

Contact resistance ≤ 1mΩ
silver plated

gold plated



More crimp contacts 16A see P13-04.

Tools

Crimping tool



Contact removal tool

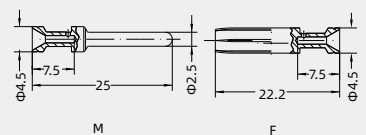
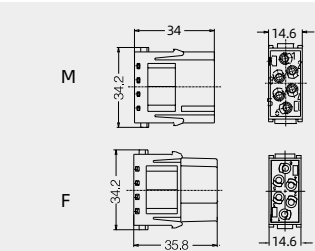


Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CESM-0.37	101 019 110 0301	CESF-0.37	101 019 120 0301
CESM-0.50	101 019 110 0401	CESF-0.50	101 019 120 0401
CESM-0.75	101 019 110 0601	CESF-0.75	101 019 120 0601
CESM-1.0	101 019 110 0801	CESF-1.0	101 019 120 0801
CESM-1.5	101 019 110 0901	CESF-1.5	101 019 120 0901
CESM-2.5	101 019 110 1001	CESF-2.5	101 019 120 1001
CESM-3.0	101 019 110 1101	CESF-3.0	101 019 120 1101
CESM-4.0	101 019 110 1201	CESF-4.0	101 019 120 1201
CEGM-0.37	101 019 210 0301	CEGF-0.37	101 019 220 0301
CEGM-0.50	101 019 210 0401	CEGF-0.50	101 019 220 0401
CEGM-0.75	101 019 210 0601	CEGF-0.75	101 019 220 0601
CEGM-1.0	101 019 210 0801	CEGF-1.0	101 019 220 0801
CEGM-1.5	101 019 210 0901	CEGF-1.5	101 019 220 0901
CEGM-2.5	101 019 210 1001	CEGF-2.5	101 019 220 1001
CEGM-3.0	101 019 210 1101	CEGF-3.0	101 019 220 1101
CEGM-4.0	101 019 210 1201	CEGF-4.0	101 019 220 1201

备注: 标准包装量 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011
Wire gauge: 0.14-0.37mm ² please select TL02 Crimping tool.		
Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002



Identification	Wire gauge	Stripping length
no groove	0.14-0.37 mm ²	7.5mm
no groove	0.5 mm ²	7.5mm
1 groove	0.75 mm ²	7.5mm
1 groove	1 mm ²	7.5mm
2 grooves	1.5 mm ²	7.5mm
3 grooves	2.5 mm ²	7.5mm
wide groove	3 mm ²	7.5mm
no groove	4 mm ²	7.5mm

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HME-006 Quick-in module

500V 16A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

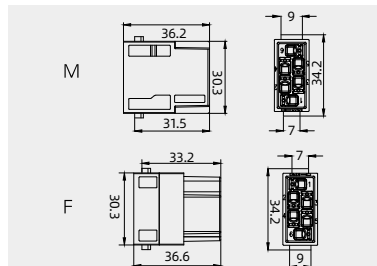
Specifications	DIN EN 60 664
	DIN EN 61 984
Approvals	
Inserts	
No. of contact	6
Electrical data acc. to EN 61 984	
- Rated current	16A
- Rated voltage	500V
- Rated impulse voltage	6kV
- Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Colour	RAL 7032 (light grey)
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mating cycles	≥ 500
Contacts	
Terminal	spring terminal (Quick-in)
Material	copper alloy
Surface	hard-silver plated
Contact resistance	$\leq 3m\Omega$
Wire gauge	
- mm ²	0.5-4.0 mm ²
- AWG	20-12
(For wires with crimped ferrule, wire gauge)	
- mm ²	0.14-2.5 mm ²
- AWG	26-14
Stripping length	10 ± 0.5 mm

Remark: SPQ is 10 pcs

Spring terminal (Quick-in)



Insert	Designation	Order No.
Male	HME-006-MQ	129 006 010 0002
Female	HME-006-FQ	129 006 020 0002



HVME-006 Protected module

830V 16A

Inserts



Combination with hinged frame and other modules possible.

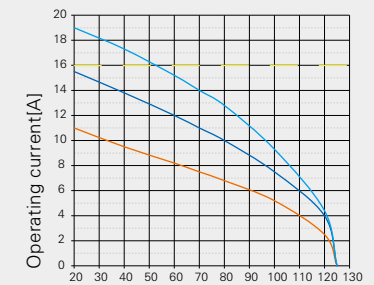
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	6
Electrical data acc. to EN 61 984	
-Rated current	16A
-Rated voltage	830V
-Rated impulse voltage	8kV
-Pollution degree	3
Rated voltage acc. to UL	600V
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated hard-gold plated
Contact resistance	$\leq 1m\Omega$
Crimp terminal	
-mm ²	0.14-4mm ²
-AWG	26-12

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Ambient temperature[°C]

- 24 B hoods/housings with 6 modules, wire gauge: 4.0mm²
- 24 B hoods/housings with 6 modules, wire gauge: 2.5mm²
- 24 B hoods/housings with 6 modules, wire gauge: 1.5mm²

Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HVME-006-MC	129 006 010 0101
Female	HVME-006-FC	129 006 020 0101

Crimp contacts

Crimp contacts 16A

Contact resistance $\leq 1m\Omega$
silver plated

gold plated



More crimp contacts 16A see P13-04.

Tools

Crimping tool



Contact removal tool

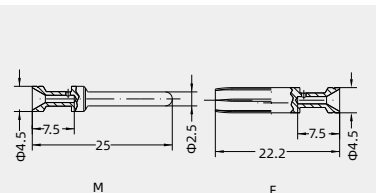
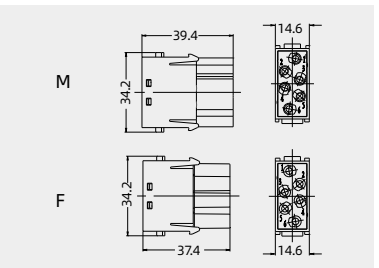


Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CESM-0.37	101 019 110 0301	CESF-0.37	101 019 120 0301
CESM-0.50	101 019 110 0401	CESF-0.50	101 019 120 0401
CESM-0.75	101 019 110 0601	CESF-0.75	101 019 120 0601
CESM-1.0	101 019 110 0801	CESF-1.0	101 019 120 0801
CESM-1.5	101 019 110 0901	CESF-1.5	101 019 120 0901
CESM-2.5	101 019 110 1001	CESF-2.5	101 019 120 1001
CESM-3.0	101 019 110 1101	CESF-3.0	101 019 120 1101
CESM-4.0	101 019 110 1201	CESF-4.0	101 019 120 1201
CEGM-0.37	101 019 210 0301	CEGF-0.37	101 019 220 0301
CEGM-0.50	101 019 210 0401	CEGF-0.50	101 019 220 0401
CEGM-0.75	101 019 210 0601	CEGF-0.75	101 019 220 0601
CEGM-1.0	101 019 210 0801	CEGF-1.0	101 019 220 0801
CEGM-1.5	101 019 210 0901	CEGF-1.5	101 019 220 0901
CEGM-2.5	101 019 210 1001	CEGF-2.5	101 019 220 1001
CEGM-3.0	101 019 210 1101	CEGF-3.0	101 019 220 1101
CEGM-4.0	101 019 210 1201	CEGF-4.0	101 019 220 1201

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011
Wire gauge: 0.14-0.37mm ² please select TL02 Crimping tool.		
Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002



Identification	Wire gauge	Stripping length
no groove	0.14-0.37 mm ² AWG 26-22	7.5mm
no groove	0.5 mm ² AWG 20	7.5mm
1 groove	0.75 mm ² AWG 18	7.5mm
1 groove	1 mm ² AWG 18	7.5mm
2 grooves	1.5 mm ² AWG 16	7.5mm
3 grooves	2.5 mm ² AWG 14	7.5mm
wide groove	3 mm ² AWG 12	7.5mm
no groove	4 mm ² AWG 12	7.5mm

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMEE-008 Crimp module

400V 16A

Inserts



Combination with hinged frame and other modules possible.

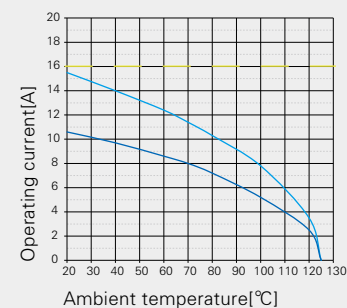
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	8	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated
-Rated current	16A		hard-gold plated
-Rated voltage	400V	Contact resistance	≤ 1mΩ
-Rated impulse voltage	6kV	Crimp terminal	
-Pollution degree	3	-mm ²	0.14-4mm ²
Rated voltage acc. to UL	600V	-AWG	26-12
Insulation resistance	≥ 10 ¹⁰ Ω		
Material	polycarbonate		
Limiting temperatures	-40°C ...+125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



- 24 B hoods/housings with 6 modules, wire gauge: 2.5mm²
- 24 B hoods/housings with 6 modules, wire gauge: 1.5mm²

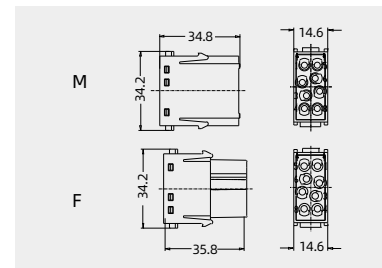
Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMEE-008-MC	129 008 010 0001
Female	HMEE-008-FC	129 008 020 0001



Crimp contacts

Crimp contacts 16A

Contact resistance ≤ 1mΩ
silver plated

gold plated



More crimp contacts 16A see P13-04.

Tools

Crimping tool



Contact removal tool

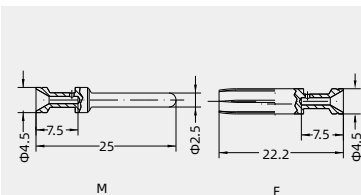


Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CESM-0.37	101 019 110 0301	CESF-0.37	101 019 120 0301
CESM-0.50	101 019 110 0401	CESF-0.50	101 019 120 0401
CESM-0.75	101 019 110 0601	CESF-0.75	101 019 120 0601
CESM-1.0	101 019 110 0801	CESF-1.0	101 019 120 0801
CESM-1.5	101 019 110 0901	CESF-1.5	101 019 120 0901
CESM-2.5	101 019 110 1001	CESF-2.5	101 019 120 1001
CESM-3.0	101 019 110 1101	CESF-3.0	101 019 120 1101
CESM-4.0	101 019 110 1201	CESF-4.0	101 019 120 1201
CEGM-0.37	101 019 210 0301	CEGF-0.37	101 019 220 0301
CEGM-0.50	101 019 210 0401	CEGF-0.50	101 019 220 0401
CEGM-0.75	101 019 210 0601	CEGF-0.75	101 019 220 0601
CEGM-1.0	101 019 210 0801	CEGF-1.0	101 019 220 0801
CEGM-1.5	101 019 210 0901	CEGF-1.5	101 019 220 0901
CEGM-2.5	101 019 210 1001	CEGF-2.5	101 019 220 1001
CEGM-3.0	101 019 210 1101	CEGF-3.0	101 019 220 1101
CEGM-4.0	101 019 210 1201	CEGF-4.0	101 019 220 1201

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011
Wire gauge: 0.14-0.37mm ² please select TL02 Crimping tool.		
Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002



Identification	Wire gauge	Stripping length
no groove	0.14-0.37 mm ² AWG 26-22	7.5mm
no groove	0.5 mm ² AWG 20	7.5mm
1 groove	0.75 mm ² AWG 18	7.5mm
1 groove	1 mm ² AWG 18	7.5mm
2 grooves	1.5 mm ² AWG 16	7.5mm
3 grooves	2.5 mm ² AWG 14	7.5mm
wide groove	3 mm ² AWG 12	7.5mm
no groove	4 mm ² AWG 12	7.5mm

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMEE-008 Quick-in module

400V 16A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

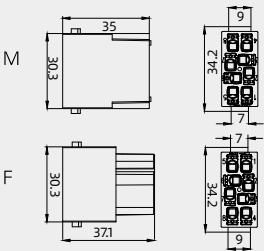
Specifications	DIN EN 60 664		
	DIN EN 61 984		
Approvals			
Inserts		Contacts	
No.of contact	8	Teminal	spring terminal(Quick-in)
-Rated current	16A	Material	copper alloy
-Rated voltage	400V	Surface	hard-silver plated
-Rated impulse voltage	6kV	Contact resistance	≤ 3mΩ
-Pollution degree	3	Wire gauge	
Insulation resistance	≥ 10 ¹⁰ Ω	-mm ²	0.5-4.0mm ²
Material	polycarbonate	-AWG	20-12
Colour	RAL 7032(light grey)	(For wires with crimped ferrule,wire gauge)	
Limiting temperatures	-40°C ...+125°C	-mm ²	0.14-2.5mm ²
Flammability acc. to UL 94	V0	-AWG	26-14
Mating cycles	≥ 500	Stripping length	10±0.5mm

Spring terminal(Quick-in)



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMEE-008-MQ	129 008 001 0001
Female	HMEE-008-FQ	129 008 002 0001



H2MEE-020 Crimp module

500V 16A

Inserts



Combination with hinged frame and other modules possible.

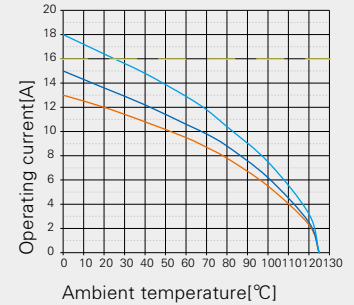
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	20	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated
-Rated current	16A		hard-gold plated
-Rated voltage	500V	Contact resistance	≤ 1mΩ
-Rated impulse voltage	6kV	Crimp terminal	
-Pollution degree	3	-mm ²	0.14-4mm ²
Rated voltage acc. to UL	600V	-AWG	26-12
Insulation resistance	≥ 10 ¹⁰ Ω		
Material	polycarbonate		
Limiting temperatures	-40°C ... +125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



— 24 B hoods/housings with 3 modules, wire gauge: 4.0mm²
 — 24 B hoods/housings with 3 modules, wire gauge: 2.5mm²
 — 24 B hoods/housings with 3 modules, wire gauge: 1.5mm²

Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	H2MEE-020-MC	129 020 010 0001
Female	H2MEE-020-FC	129 020 020 0001

Crimp contacts

Crimp contacts 16A

Contact resistance ≤ 1mΩ
silver plated

gold plated



More crimp contacts 16A see P13-04.

Tools

Crimping tool



Contact removal tool

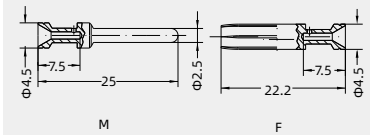
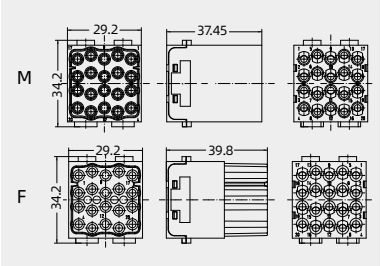


Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CESM-0.37	101 019 110 0301	CESF-0.37	101 019 120 0301
CESM-0.50	101 019 110 0401	CESF-0.50	101 019 120 0401
CESM-0.75	101 019 110 0601	CESF-0.75	101 019 120 0601
CESM-1.0	101 019 110 0801	CESF-1.0	101 019 120 0801
CESM-1.5	101 019 110 0901	CESF-1.5	101 019 120 0901
CESM-2.5	101 019 110 1001	CESF-2.5	101 019 120 1001
CESM-3.0	101 019 110 1101	CESF-3.0	101 019 120 1101
CESM-4.0	101 019 110 1201	CESF-4.0	101 019 120 1201
CEGM-0.37	101 019 210 0301	CEGF-0.37	101 019 220 0301
CEGM-0.50	101 019 210 0401	CEGF-0.50	101 019 220 0401
CEGM-0.75	101 019 210 0601	CEGF-0.75	101 019 220 0601
CEGM-1.0	101 019 210 0801	CEGF-1.0	101 019 220 0801
CEGM-1.5	101 019 210 0901	CEGF-1.5	101 019 220 0901
CEGM-2.5	101 019 210 1001	CEGF-2.5	101 019 220 1001
CEGM-3.0	101 019 210 1101	CEGF-3.0	101 019 220 1101
CEGM-4.0	101 019 210 1201	CEGF-4.0	101 019 220 1201

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011
Wire gauge: 0.14-0.37mm ² please select TL02 Crimping tool.		
Application	Designation	Order No.
for crimp contacts 16A	TL01	198 001 000 0002



Identification	Wire gauge	Stripping length
no groove	0.14-0.37 mm ² AWG 26-22	7.5mm
no groove	0.5 mm ² AWG 20	7.5mm
1 groove	0.75 mm ² AWG 18	7.5mm
1 groove	1 mm ² AWG 16	7.5mm
2 grooves	1.5 mm ² AWG 16	7.5mm
3 grooves	2.5 mm ² AWG 14	7.5mm
wide groove	3 mm ² AWG 12	7.5mm
no groove	4 mm ² AWG 12	7.5mm

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMD-012 Crimp module

250V 10A

Inserts



Combination with hinged frame and other modules possible.

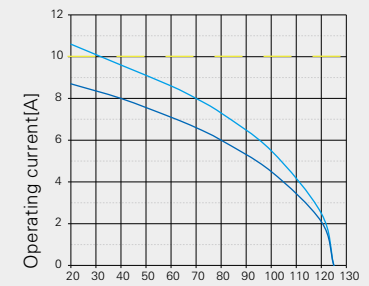
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	12
Electrical data acc. to EN 61 984	
-Rated current	10A
-Rated voltage	250V
-Rated impulse voltage	4kV
-Pollution degree	3
Rated voltage acc. to UL	600V
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated hard-gold plated
Contact resistance	$\leq 3m\Omega$
Crimp terminal	
-mm ²	0.14-2.5mm ²
-AWG	26-14

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



Ambient temperature[°C]

— 24 B hoods/housings with 6 modules,
wire gauge: 1.5mm²

— 24 B hoods/housings with 6 modules,
wire gauge: 1.0mm²

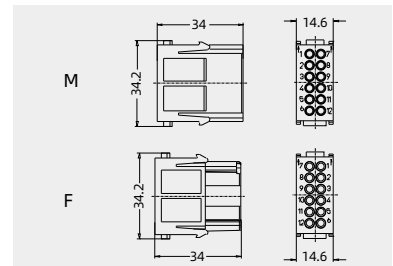
Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMD-012-MC	129 012 010 0001
Female	HMD-012-FC	129 012 020 0001



Crimp contacts

Remark: SPQ is 100pcs

Crimp contacts 10A

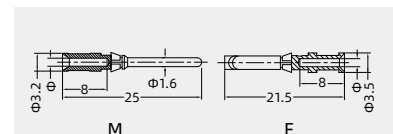
Contact resistance $\leq 3m\Omega$
silver plated

gold plated

More crimp contacts 10A
see P13-02,P13-02.

Male	Order No.	Female	Order No.
CDSM-0.25	101 017 110 0101	CDSF-0.25	101 017 120 0101
CDSM-0.37	101 017 110 0301	CDSF-0.37	101 017 120 0301
CDSM-0.50	101 017 110 0401	CDSF-0.50	101 017 120 0401
CDSM-0.75	101 017 110 0601	CDSF-0.75	101 017 120 0601
CDSM-1.0	101 017 110 0801	CDSF-1.0	101 017 120 0801
CDSM-1.5	101 017 110 0901	CDSF-1.5	101 017 120 0901
CDSM-2.5	101 017 110 1001	CDSF-2.5	101 017 120 1001
CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001

Remark: SPQ is 1pc



Wire gauge	Φ	Stripping length
0.09-0.25 mm ² AWG 28-24	0.65	5 mm
0.14-0.37 mm ² AWG 26-22	0.9	8 mm
0.5 mm ² AWG 20	1.1	8 mm
0.75 mm ² AWG 18	1.3	8 mm
1 mm ² AWG 18	1.45	8 mm
1.5 mm ² AWG 16	1.75	8 mm
2.5 mm ² AWG 14	2.25	6 mm

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

Tools

Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011
For the crimping contacts and removing contacts instructions, please find the page 06-23-06-24.		
Application	Designation	Order No.
for crimp contacts 10A	TL00	198 001 000 0001

More tools detail please find the page 32-03~32-06.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMD-012 Quick-in module

250V 10A

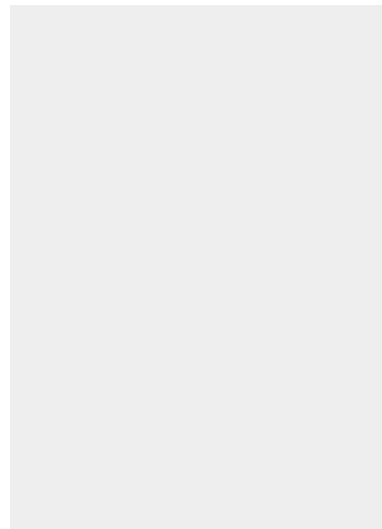
Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
No. of contact	12	Terminal	Spring terminal(Quick-in)
Electrical data acc. to EN 61 984		Material	copper alloy
-Rated current	10A	Surface	hard-silver plated
-Rated voltage	250V	Contact resistance	$\leq 3\text{m}\Omega$
-Rated impulse voltage	4kV	Wire gauge	
-Pollution degree	3	-mm ²	0.5-2.5mm ²
Rated voltage acc. to UL	250V	-AWG	20-14
Insulation resistance	$\geq 10^{10}\Omega$	(For wires with crimped ferrule, wire gauge)	
Material	polycarbonate	-mm ²	0.14-1.5mm ²
Colour	RAL 7032(light grey)	-AWG	26-16
Limiting temperatures	-40°C ... +125°C	Stripping length	10±0.5mm
Flammability acc. to UL 94	V0		
Mating cycles	≥ 500		

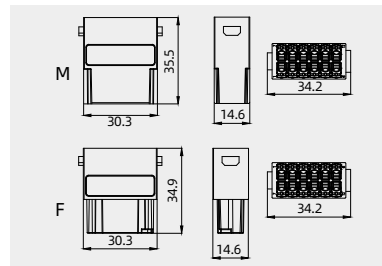


Spring terminal(Quick-in)

Remark: SPQ is 10pcs



Insert	Designation	Order No.
Male	HMD-012-MQ	129 012 001 0001
Female	HMD-012-FQ	129 012 002 0001



HMDD-017 Crimp module

160V 10A

Inserts



Combination with hinged frame and other modules possible.

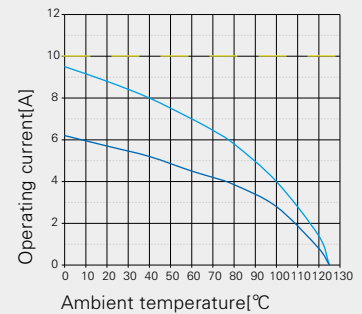
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	17	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated hard-gold plated
-Rated current	10A	Contact resistance	≤ 3mΩ
-Rated voltage	160V	Crimp terminal	
-Rated impulse voltage	2.5kV	-mm ²	0.14-2.5mm ²
-Pollution degree	3	-AWG	26-14
Rated voltage acc. to UL	250V		
Insulation resistance	≥ 10 ¹⁰ Ω		
Material	polycarbonate		
Limiting temperatures	-40°C ...+125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycle	≥ 500		

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



— 24 B hoods/housings with 6 modules, wire gauge: 1.5mm²
— 24 B hoods/housings with 6 modules, wire gauge: 1.0mm²

Crimp terminal

Order crimp contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMDD-017-MC	129 017 010 0001
Female	HMDD-017-FC	129 017 020 0001

Crimp contacts

Crimp contacts 10A

Contact resistance ≤ 3mΩ
silver plated

gold plated

More crimp contacts 10A
see P13-02, P13-02.

Tools

Crimping tool



Contact removal tool



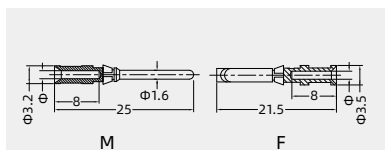
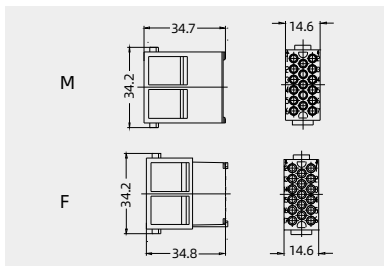
Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CDSM-0.25	101 017 110 0101	CDSF-0.25	101 017 120 0101
CDSM-0.37	101 017 110 0301	CDSF-0.37	101 017 120 0301
CDSM-0.50	101 017 110 0401	CDSF-0.50	101 017 120 0401
CDSM-0.75	101 017 110 0601	CDSF-0.75	101 017 120 0601
CDSM-1.0	101 017 110 0801	CDSF-1.0	101 017 120 0801
CDSM-1.5	101 017 110 0901	CDSF-1.5	101 017 120 0901
CDSM-2.5	101 017 110 1001	CDSF-2.5	101 017 120 1001
CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011
For the crimping contacts and removing contacts instructions, please find the page 06-23-06-24.		
Application	Designation	Order No.
for crimp contacts 10A	TL00	198 001 000 0001

More tools detail please find the page 32-03-32-06.



Wire gauge	Φ	Stripping length
0.09-0.25 mm ² AWG 28-24	0.65	5 mm
0.14-0.37 mm ² AWG 26-22	0.9	8 mm
0.5 mm ² AWG 20	1.1	8 mm
0.75 mm ² AWG 18	1.3	8 mm
1 mm ² AWG 18	1.45	8 mm
1.5 mm ² AWG 16	1.75	8 mm
2.5 mm ² AWG 14	2.25	6 mm

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

H2MDD-042 Crimp module

150V 10A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	42
Electrical data acc. to EN 61 984	
-Rated current	10A
-Rated voltage	150V
-Rated impulse voltage	2.5kV
-Pollution degree	3
Rated voltage acc. to UL	250V
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated
	hard-gold plated
Contact resistance	$\leq 3m\Omega$
Crimp terminal	
-mm ²	0.14-2.5mm ²
-AWG	26-14

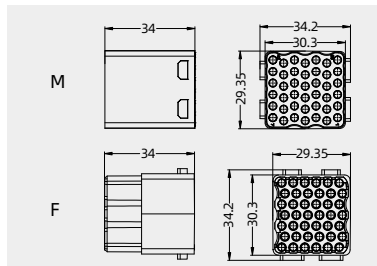
Remark: SPQ is 10pcs

Crimp terminal

Order crimp contacts separately



Insert	Designation	Order No.
Male	H2MDD-042-MC	129 042 010 0001
Female	H2MDD-042-FC	129 042 020 0001



Crimp contacts

Crimp contacts 10A

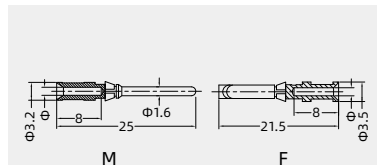
Contact resistance $\leq 3m\Omega$
silver plated

gold plated



Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CDSM-0.25	101 017 110 0101	CDSF-0.25	101 017 120 0101
CDSM-0.37	101 017 110 0301	CDSF-0.37	101 017 120 0301
CDSM-0.50	101 017 110 0401	CDSF-0.50	101 017 120 0401
CDSM-0.75	101 017 110 0601	CDSF-0.75	101 017 120 0601
CDSM-1.0	101 017 110 0801	CDSF-1.0	101 017 120 0801
CDSM-1.5	101 017 110 0901	CDSF-1.5	101 017 120 0901
CDSM-2.5	101 017 110 1001	CDSF-2.5	101 017 120 1001
CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001



Wire gauge	Φ	Stripping length
0.09-0.25 mm ² AWG 28-24	0.65	5 mm
0.14-0.37 mm ² AWG 26-22	0.9	8 mm
0.5 mm ² AWG 20	1.1	8 mm
0.75 mm ² AWG 18	1.3	8 mm
1 mm ² AWG 18	1.45	8 mm
1.5 mm ² AWG 16	1.75	8 mm
2.5 mm ² AWG 14	2.25	6 mm

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.More crimp contacts 10A
see P13-02, P13-02.

Tools

Crimping tool



Contact removal tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011

For the crimping contacts and removing contacts
instructions, please find the page 06-23~06-24.

Application	Designation	Order No.
for crimp contacts 10A	TL00	198 001 000 0001

More tools detail please find the page 32-03~32-06.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMMB-008 MegaBit module

- Two outlet hole

50V 10A

Inserts



Only suitable for high constructure top entry hood/BK.
Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Adapter module		MegaBit Insert	
Insulation resistance	$\geq 10^{10} \Omega$	Contacts	2x4+shielding
Material	polycarbonate	Electrical dataacc. to EN 61 984	
Limiting temperatures	-40°C ...+125°C	-Rated current	10A
Flammability acc. to UL 94	V0	-Rated voltage	50V
Mechanical working life		-Rated impulse voltage	0.8kV
- mating cycle	≥ 500	-Pollution degree	3
Contacts		Material	
Crimp terminal	hard-gold plated	-insert	polycarbonate
-mm2	0.14-2.5 mm ²	-outer conductor	zinc alloy
-AWG	26-14	Insulation resistance	$\leq 4m\Omega$
		Limiting temperatures	-40°C ...+85°C
		Flammability acc. to UL 94	V0
		Surface	passivated
		Clamping range	5-12 mm

MegaBit Insert, Crimp terminal
Order the adapter module separately.
Order crimp contacts separately.



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HMMB-008-MC	129 008 010 0503
Female	HMMB-008-FC	129 008 020 0503

Adapter module



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMB.C-M	129 000 001 0001
Female	HMB.C-F	129 000 002 0001

Crimp contacts

Crimp contacts 10A

Contact resistance $\leq 3m\Omega$
silver plated



More crimp contacts 10A
see P13-02,P13-02.

Tools

Crimping tool



Contact removal tool



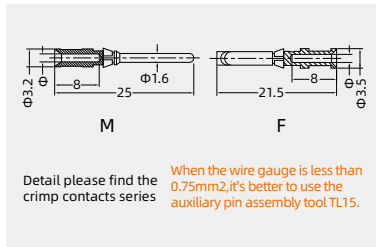
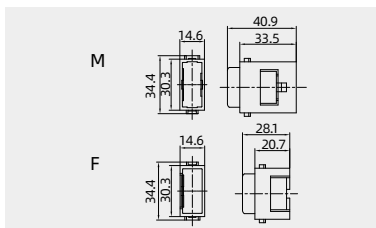
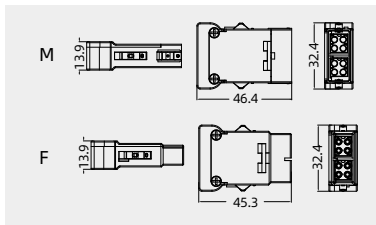
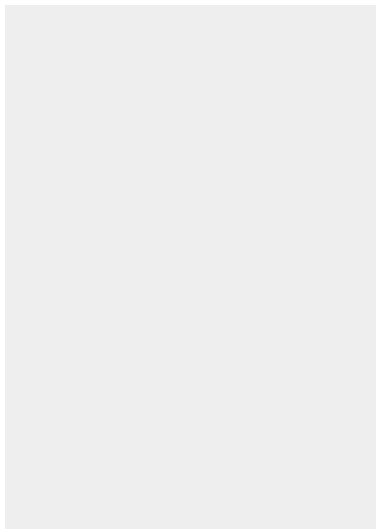
Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011

Application	Designation	Order No.
for crimp contacts 10A	TL00	198 001 000 0001



Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMMB/1-008 MegaBit module

- One outlet hole

50V 10A

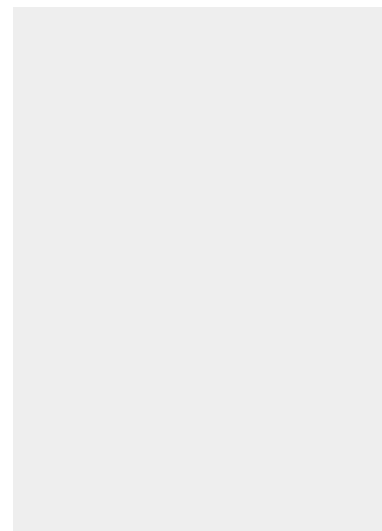
Inserts



Only suitable for high constructure top entry hood/BK.
Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984	
Approvals		
Adapter module		MegaBit Insert
Insulation resistance	$\geq 10^{10}\Omega$	Contacts
Material	polycarbonate	Electrical dataacc. to EN 61 984
Limiting temperatures	-40°C ...+125°C	-Rated current
Flammability acc. to UL 94	V0	-Rated voltage
Mechanical working life		-Rated impulse voltage
- mating cycle	≥ 500	-Pollution degree
Contacts		Material
Material	copper alloy	-insert
Crimp terminal	hard-silver plated	-outer conductor
	hard-gold plated	Insulation resistance
-mm ²	0.14-2.5 mm ²	Limiting temperatures
-AWG	26-14	Flammability acc. to UL 94
Contact resistance	$\leq 3m\Omega$	Surface
		Clamping range



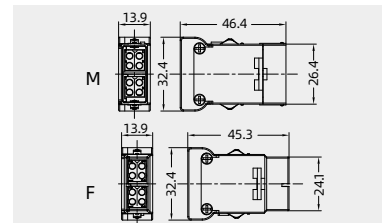
MegaBit Insert, Crimp terminal

Order the adapter module separately.
Order crimp contacts separately.



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HMMB/1-008-MC	129 008 010 0511
Female	HMMB/1-008-FC	129 008 020 0511

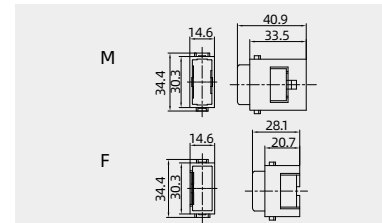


Adapter module



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMB.C-M	129 000 001 0001
Female	HMB.C-F	129 000 002 0001



Crimp contacts

Crimp contacts 10A

Contact resistance $\leq 3m\Omega$
silver plated



More crimp contacts 10A
see P13-02,P13-02.

Tools

Crimping tool



Contact removal tool

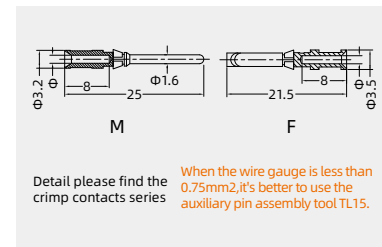


Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011
Application	Designation	Order No.
for crimp contacts 10A	TL00	198 001 000 0001



Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMGB-008 GigaBit module

50V 5A

Inserts



Only suitable for high constructure top entry hood/BK.
Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Adapter module		GigaBit module	
Insulation resistance	$\geq 10^{10}\Omega$	Contacts	8+shielding
Material	polycarbonate	Electrical dataacc. to EN 61 984	
Limiting temperatures	-40°C ...+125°C	-Rated current	5A
Flammability acc. to UL 94	V0	-Rated voltage	50V
Mechanical working life		-Rated impulse voltage	0.8kV
- mating cycle	≥ 500	-Pollution degree	3
D-Sub Contacts		Material	
Crimp terminal	hard-gold plated	-insert	polycarbonate
-mm ²	0.09-0.52 mm ²	-outer conductor	zinc alloy
-AWG	28-20	Insulation resistance	$\leq 4m\Omega$
		Limiting temperatures	-40°C ...+85°C
		Flammability acc. to UL 94	V0
		Surface	passivated
		Clamping range	5-12 mm

MegaBit Insert, Crimp terminal
Order the adapter module separately.
Order crimp contacts separately



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HMGB-008-MC	129 008 010 0002
Female	HMGB-008-FC	129 008 020 0002

Order cable clamp separately.

Adapter module



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMB.C-M	129 000 001 0001
Female	HMB.C-F	129 000 002 0001

Crimp contacts

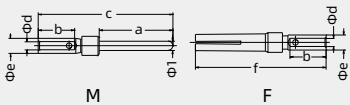
Crimp contacts 5A

Contact resistance $\leq 3m\Omega$
gold plated



Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CSGM-0.25	101 014 210 0101	CSGF-0.25	101 014 220 0101
CSGM-0.33	101 014 210 0201	CSGF-0.33	101 014 220 0201
CSGM-0.52	101 014 210 0501	CSGF-0.52	101 014 220 0501



Detail please find the crimp contacts series

HMGB-008 GigaBit module

Stamped contacts 5A

Contact resistance $\leq 10\text{m}\Omega$

silver plated



gold plated



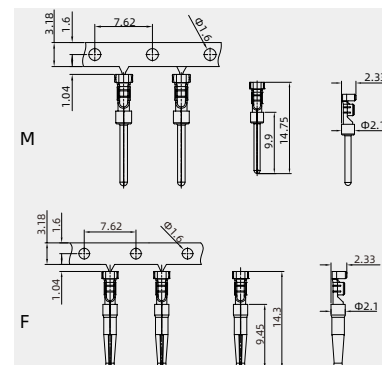
coil stock



Note: 10kpcs/volume

Remark: SPQ is 3000pcs

Male	Order No.	Female	Order No.
CSSM-0.82P	101 014 110 0750	CSSF-0.82P	101 014 120 0750
CSGM-0.82P	101 014 210 0750	CSGF-0.82P	101 014 220 0750



Tools

Crimping tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMMB-008 MegaBit module

- Two outlet hole

50V 10A

Inserts



Only suitable for high constructure top entry hood/BK.
Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Adapter module		MegaBit Insert	
Insulation resistance	$\geq 10^{10}\Omega$	Contacts	2x4+shielding
Material	polycarbonate	Electrical dataacc. to EN 61 984	
Limiting temperatures	-40°C ...+125°C	-Rated current	10A
Flammability acc. to UL 94 V0		-Rated voltage	50V
Mechanical working life		-Rated impulse voltage	0.8kV
- mating cycle	≥ 500	-Pollution degree	3
Contacts		Material	
Crimp terminal	hard-gold plated	-insert	polycarbonate
-mm ²	0.14-2.5 mm ²	-outer conductor	zinc alloy
-AWG	26-14	Insulation resistance	$\leq 4m\Omega$
		Limiting temperatures	-40°C ...+85°C
		Flammability acc. to UL 94	V0
		Surface	passivated
		Clamping range	5-12 mm

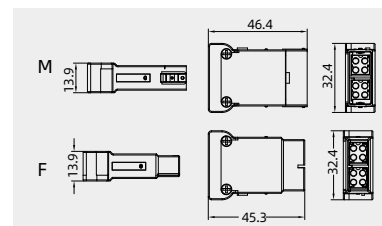
MegaBit Insert, Crimp terminal
Order the adapter module separately.
Order crimp contacts separately



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HMMB-008-MC 3SP	129 008 010 0508
Female	HMMB-008-FC 3SP	129 008 020 0508

3SP: Module shield not grounded to frame
Order cable clamp separately.

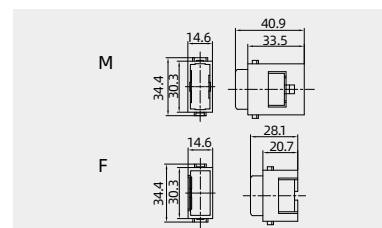


Adapter module



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMB.C-M	129 000 001 0001
Female	HMB.C-F	129 000 002 0001



Crimp contacts

Crimp contacts 10A

Contact resistance $\leq 3m\Omega$
silver plated



More crimp contacts 10A
see P13-02,P13-02.

Tools

Crimping tool



Contact removal tool



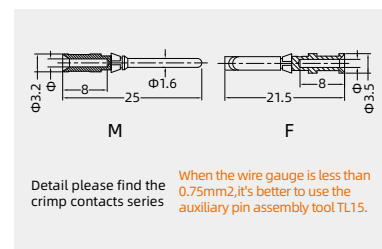
Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011

Application	Designation	Order No.
for crimp contacts 10A	TL00	198 001 000 0001



Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMMB/1-008 MegaBit module

- One outlet hole

50V 10A

Inserts



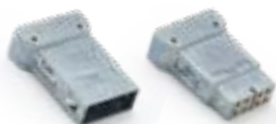
Only suitable for high constructure top entry hood/BK.
Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984	
Approvals		
Adapter module		MegaBit Insert
Insulation resistance	$\geq 10^{10}\Omega$	Contacts
Material	polycarbonate	Electrical dataacc. to EN 61 984
Limiting temperatures	-40°C ...+125°C	-Rated current
Flammability acc. to UL 94	V0	-Rated voltage
Mechanical working life		-Rated impulse voltage
- mating cycle	≥ 500	-Pollution degree
Contacts		Material
Material	copper alloy	-insert
Crimp terminal	hard-silver plated	-outer conductor
	hard-gold plated	Insulation resistance
-mm ²	0.14-2.5 mm ²	Limiting temperatures
-AWG	26-14	Flammability acc. to UL 94
Contact resistance	$\leq 3m\Omega$	Surface
		Clamping range

MegaBit Insert, Crimp terminal

Order the adapter module separately.
Order crimp contacts separately



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HMMB/1-008-MC 3SP	129 008 010 0510
Female	HMMB/1-008-FC 3SP	129 008 020 0510

3SP: Module shield not grounded to frame
Order cable clamp separately.

Adapter module



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMB.C-M	129 000 001 0001
Female	HMB.C-F	129 000 002 0001

Crimp contacts

Crimp contacts 10A

Contact resistance $\leq 3m\Omega$
silver plated



More crimp contacts 10A
see P13-02,P13-02.

Tools

Crimping tool



Contact removal tool



Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL02G	198 001 001 0011
Application	Designation	Order No.
for crimp contacts 10A	TL00	198 001 000 0001

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMGB-008 GigaBit module

50V 5A

Inserts



Only suitable for high constructure top entry hood/BK.
Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Adapter module		GigaBit module	
Insulation resistance	$\geq 10^{10}\Omega$	Contacts	8+shielding
Material	polycarbonate	Electrical dataacc. to EN 61 984	
Limiting temperatures	-40°C ...+125°C	-Rated current	5A
Flammability acc. to UL 94	V0	-Rated voltage	50V
Mechanical working life		-Rated impulse voltage	0.8kV
- mating cycle	≥ 500	-Pollution degree	3
D-Sub Contacts		Material	
Crimp terminal	hard-gold plated	-insert	polycarbonate
-mm ²	0.09-0.52 mm ²	-outer conductor	zinc alloy
-AWG	28-20	Insulation resistance	$\leq 4m\Omega$
		Limiting temperatures	-40°C ...+85°C
		Flammability acc. to UL 94	V0
		Surface	passivated
		Clamping range	5-12 mm

MegaBit Insert, Crimp terminal
Order the adapter module separately.
Order crimp contacts separately



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HMGB-008-MC 3SP	129 008 010 0004
Female	HMGB-008-FC 3SP	129 008 020 0004

3SP: Module shield not grounded to frame
Order cable clamp separately.

Adapter module



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMB.C-M	129 000 001 0001
Female	HMB.C-F	129 000 002 0001

Crimp contacts

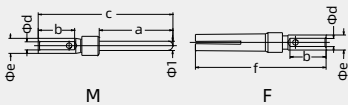
Crimp contacts 5A

Contact resistance $\leq 3m\Omega$
gold plated



Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CSGM-0.25	101 014 210 0101	CSGF-0.25	101 014 220 0101
CSGM-0.33	101 014 210 0201	CSGF-0.33	101 014 220 0201
CSGM-0.52	101 014 210 0501	CSGF-0.52	101 014 220 0501



Detail please find the crimp contacts series

HMSB-024 Shielding Module

32V 4A

Inserts



Only suitable for high constructure top entry hood/BK.
Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984	
Approvals		
Adapter module		HMSB-024 module
Insulation resistance	$\geq 10^{10}\Omega$	Contacts 24+shielding
Material	polycarbonate	Electrical dataacc. to EN 61 984
Limiting temperatures	-40°C ...+125°C	-Rated current 4A
Flammability acc. to UL 94 V0		-Rated voltage 32V
Mechanical working life		-Rated impulse voltage 0.8kV
- mating cycle	≥ 500	-Pollution degree 3
Contacts		Material
Crimp terminal	hard-gold plated	-insert polycarbonate
-mm ²	0.09-0.52 mm ²	-outer conductor zinc alloy
-AWG	28-20	Insulation resistance $\leq 4m\Omega$
		Limiting temperatures -40°C ...+85°C
		Flammability acc. to UL 94 V0
		Surface passivated
		Clamping range 5-12 mm

MegaBit Insert, Crimp terminal
Order the adapter module separately.
Order crimp contacts separately



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HMSB-024-MC	129 024 010 0001
Female	HMSB-024-FC	129 024 020 0001

Adapter module



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HMSB.C-M	129 000 011 1001
Female	HMSB.C-F	129 000 021 1001

Crimp contacts

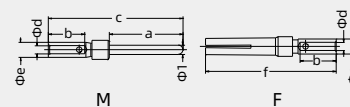
Crimp contacts 5A

Contact resistance $\leq 3m\Omega$
gold plated



Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CSGM-0.25	101 014 210 0101	CSGF-0.25	101 014 220 0101
CSGM-0.33	101 014 210 0201	CSGF-0.33	101 014 220 0201
CSGM-0.52	101 014 210 0501	CSGF-0.52	101 014 220 0501



Detail please find the crimp contacts series

HMSB-024 Shielding Module

Stamped contacts 5A

Remark: SPQ is 3000pcs

Contact resistance ≤ 10mΩ

silver plated



gold plated



coil stock



Note: 10kpcs/volume

Tools

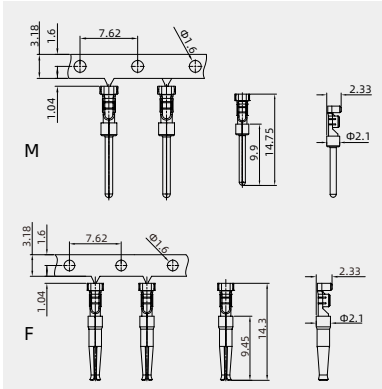
Crimping tool



Male	Order No.	Female	Order No.
CSSM-0.82P	101 014 110 0750	CSSF-0.82P	101 014 120 0750
CSGM-0.82P	101 014 210 0750	CSGF-0.82P	101 014 220 0750

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002



Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

Cable clamp
-Accessories for GigaBit, MegaBit and HMSB-024 shielding module

Technical characteristics

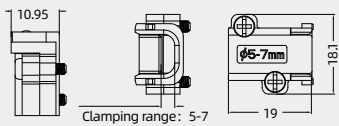
Specifications	DIN EN 60 664 DIN EN 61 984
Cable clamp	
Material	zinc alloy
Surface	passivated
Clamping range	5-14mm

Remark: SPQ is 1pc

Cable clamp



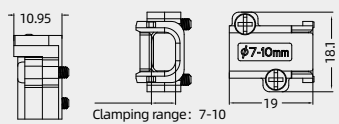
Clamping range	Designation	Order No.
5-7 mm	HM-CLP5-7	198 002 003 0031



Cable clamp



Clamping range	Designation	Order No.
7-10 mm	HM-CLP7-10	198 002 003 0032

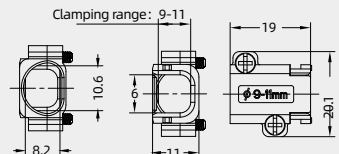


Cable clamp

Not applicable to HMMB with two outlet module



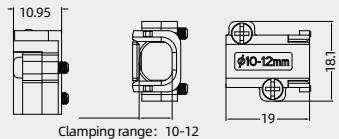
Clamping range	Designation	Order No.
9-11 mm	HM-CLP9-11	198 002 003 0037



Cable clamp



Clamping range	Designation	Order No.
10-12 mm	HM-CLP10-12	198 002 003 0033

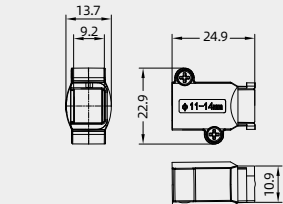


Cable clamp

Not applicable to HMMB with two outlet module



Clamping range	Designation	Order No.
11-14 mm	HM-CLP11-14	198 002 003 0044



HMDS-009 D-Sub module

- for one cable

50V 5A

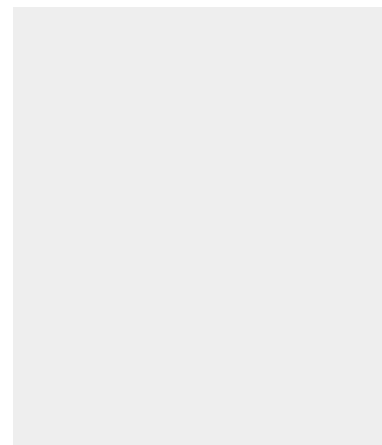
Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	CE ENEC
Inserts	
Number of contacts	9
Electrical data acc. to EN 61 984	
- Rated current	5A
- Rated voltage	50V
- Rated impulse voltage	0.8kV
- Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated
	hard-gold plated
Contact resistance	$\leq 3 m\Omega$
Crimp terminal	
- mm ²	0.09-0.82 mm ²
- AWG	28-18



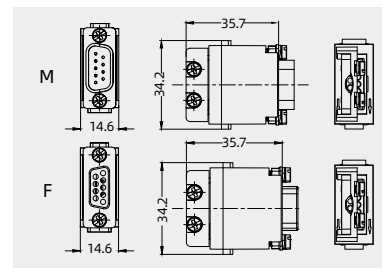
Crimp terminal

Order crimp contacts separately



Remark: SPQ is 5pcs

Insert	Description	Designation	Order No.
Male	for one cable	HMDS/2.1-009-MC	129 009 010 0101
Female	for one cable	HMDS/2.1-009-FC	129 009 020 0101



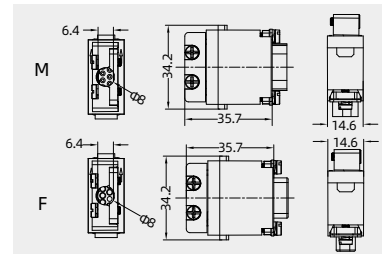
Crimp terminal

Order crimp contacts separately



Insert	Description	Designation	Order No.
Male	for one cable	HMDS/2.1-009-MC 3SP01	129 009 010 0506
Female	for one cable	HMDS/2.1-009-FC 3SP01	129 009 020 0506

Clamp locking range: Φ 7mm
3SP01: Module shield not grounded to frame



Crimp contacts

Crimp contacts 5A

Contact resistance $\leq 3 m\Omega$
silver plated

gold plated



Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CSSM-0.25	101 014 110 0101	CSSF-0.25	101 014 120 0101
CSSM-0.33	101 014 110 0201	CSSF-0.33	101 014 120 0201
CSSM-0.52	101 014 110 0501	CSSF-0.52	101 014 120 0501
CSSM-0.82	101 014 110 0701	CSSF-0.82	101 014 120 0701
CSGM-0.25	101 014 210 0101	CSGF-0.25	101 014 220 0101
CSGM-0.33	101 014 210 0201	CSGF-0.33	101 014 220 0201
CSGM-0.52	101 014 210 0501	CSGF-0.52	101 014 220 0501
CSGM-0.82	101 014 210 0701	CSGF-0.82	101 014 220 0701

Technical drawings of crimp contacts M and F. Drawing M shows dimensions a, b, c, d, e, f and diameters Øe, Øf. Drawing F shows dimensions a, b, c, d, e, f and diameters Øe, Øf.

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

Wire gauge	Stripping length
0.09-0.25 mm ² AWG 28-24	5 mm
0.13-0.33 mm ² AWG 26-22	5 mm
0.33-0.52 mm ² AWG 22-20	5 mm
0.52-0.82 mm ² AWG 22-18	5 mm

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMDS-009 D-Sub module
- for one cable

Stamped contacts 5A

Contact resistance ≤ 10mΩ

silver plated



gold plated



coil stock



Note: 10kpcs/volume

Tools

Crimping tool



Contact removal tool

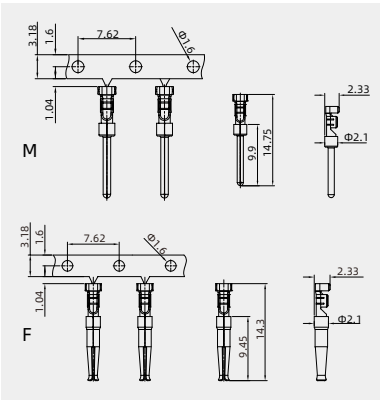


Remark: SPQ is 3000pcs

Male	Order No.	Female	Order No.
CSSM-0.82P	101 014 110 0750	CSSF-0.82P	101 014 120 0750
CSGM-0.82P	101 014 210 0750	CSGF-0.82P	101 014 220 0750

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002
Application	Designation	Order No.
for 5A crimp contact	TL08	198 001 000 0006



Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMDS-009 D-Sub module - for two cables

50V 5A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

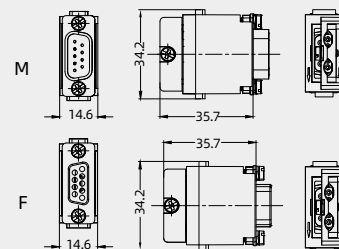
Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	9
Electrical data acc. to EN 61 984	
- Rated current	5A
- Rated voltage	50V
- Rated impulse voltage	0.8kV
- Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface	hard-silver plated
	hard-gold plated
Contact resistance	$\leq 3m\Omega$
Crimp terminal	
- mm ²	0.09-0.82mm ²
- AWG	28-18

Remark: SPQ is 1pc

Crimp terminal

Order crimp contacts separately

Insert	Description	Designation	Order No.
Male	for two cables	HMDS/2.2-009-MC	129 009 010 0102
Female	for two cables	HMDS/2.2-009-FC	129 009 020 0102



Crimp contacts

Crimp contacts 5A

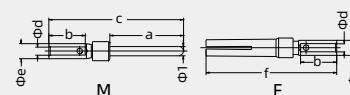
Contact resistance $\leq 3m\Omega$
silver plated

gold plated



Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CSSM-0.25	101 014 110 0101	CSSF-0.25	101 014 120 0101
CSSM-0.33	101 014 110 0201	CSSF-0.33	101 014 120 0201
CSSM-0.52	101 014 110 0501	CSSF-0.52	101 014 120 0501
CSSM-0.82	101 014 110 0701	CSSF-0.82	101 014 120 0701
CSGM-0.25	101 014 210 0101	CSGF-0.25	101 014 220 0101
CSGM-0.33	101 014 210 0201	CSGF-0.33	101 014 220 0201
CSGM-0.52	101 014 210 0501	CSGF-0.52	101 014 220 0501
CSGM-0.82	101 014 210 0701	CSGF-0.82	101 014 220 0701



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

Wire gauge	Stripping length
0.09-0.25 mm ² AWG 28-24	5 mm
0.13-0.33 mm ² AWG 26-22	5 mm
0.33-0.52 mm ² AWG 22-20	5 mm
0.52-0.82 mm ² AWG 22-18	5 mm

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMDS-009 D-Sub module
- for two cables

Stamped contacts 5A

Contact resistance ≤ 10mΩ

Remark: SPQ is 3000pcs

	Male	Order No.	Female	Order No.
silver plated	CSSM-0.82P	101 014 110 0750	CSSF-0.82P	101 014 120 0750
gold plated	CSGM-0.82P	101 014 210 0750	CSGF-0.82P	101 014 220 0750
coil stock				

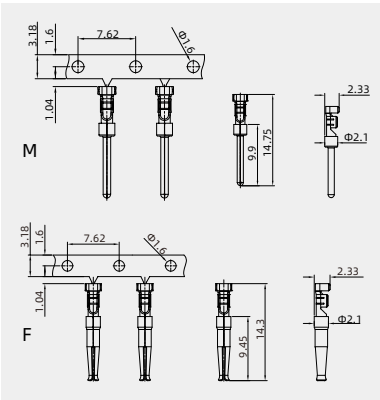
Note: 10kpcs/volume

Tools

Remark: SPQ is 1pc

	Wire gauge	Designation	Order No.
Crimping tool	0.09-0.82mm ²	TL03	198 001 001 0002
	Application	Designation	Order No.
Contact removal tool	for 5A crimp contact	TL08	198 001 000 0006

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.



HMDS-025 High Density module

50V 4A

Inserts



Combination with hinged frame and other modules possible.

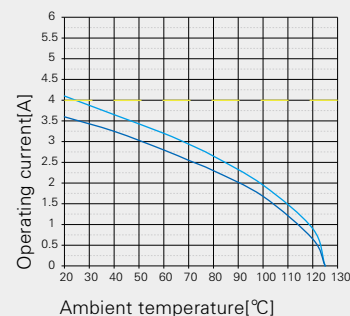
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	25	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated
-Rated current	4A		hard-gold plated
-Rated voltage	50V	Contact resistance	$\leq 3\text{m}\Omega$
-Rated impulse voltage	0.8kV	Crimp terminal	
-Pollution degree	3	-mm ²	0.09-0.52mm ²
Insulation resistance	$\geq 10^{10}\Omega$	-AWG	28-20
Material	polycarbonate		
Limiting temperatures	-40°C ... +125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5



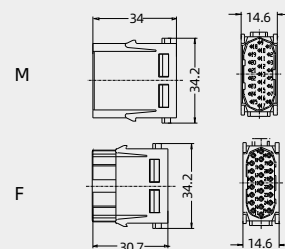
— 24 B hoods/housings with 6 modules,
wire gauge: 0.5mm²(turned contacts)
— 24 B hoods/housings with 6 modules,
wire gauge: 0.5mm²(stamped contacts)

Crimp terminal

Order crimp contacts separately

Remark: SPQ is 1pc

Insert	Designation	Order No.
Male	HMDS-025-MC	129 025 010 0001
Female	HMDS-025-FC	129 025 020 0001



Crimp contacts

Remark: SPQ is 100pcs

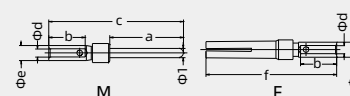
Crimp contacts 5A

Contact resistance $\leq 3\text{m}\Omega$
silver plated

gold plated



Male	Order No.	Female	Order No.
CSSM-0.25	101 014 110 0101	CSSF-0.25	101 014 120 0101
CSSM-0.33	101 014 110 0201	CSSF-0.33	101 014 120 0201
CSSM-0.52	101 014 110 0501	CSSF-0.52	101 014 120 0501
CSGM-0.25	101 014 210 0101	CSGF-0.25	101 014 220 0101
CSGM-0.33	101 014 210 0201	CSGF-0.33	101 014 220 0201
CSGM-0.52	101 014 210 0501	CSGF-0.52	101 014 220 0501



a	b	c	d	e	f
8.10	4.0	14.8	0.64	1.66	14.4
8.10	4.0	14.8	0.90	1.66	14.4
8.10	4.0	14.8	1.12	1.66	14.4

Wire gauge	Stripping length
0.09-0.25 mm ² AWG 28-24	5 mm
0.13-0.33 mm ² AWG 26-22	5 mm
0.33-0.52 mm ² AWG 22-20	5 mm

HMDS-025 High Density module

Stamped contacts 5A

Contact resistance ≤ 10mΩ

silver plated



gold plated



coil stock



Note: 10kpcs/volume

Tools

Crimping tool



Contact removal tool

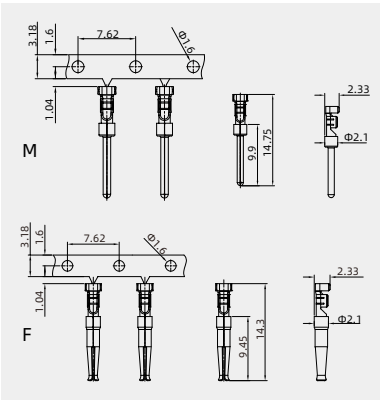


Remark: SPQ is 3000pcs

Male	Order No.	Female	Order No.
CSSM-0.82P	101 014 110 0750	CSSF-0.82P	101 014 120 0750
CSGM-0.82P	101 014 210 0750	CSGF-0.82P	101 014 220 0750

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002
Application	Designation	Order No.
for 5A crimp contact	TL08	198 001 000 0006



Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMDS-036 High Density module

32V 4A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	36	Material	copper alloy
Electrical data acc. to EN 61 984		Surface	hard-silver plated
-Rated current	4A		hard-gold plated
-Rated voltage	32V	Contact resistance	$\leq 3\text{m}\Omega$
-Rated impulse voltage	0.8kV	Crimp terminal	
-Pollution degree	3	-mm ²	0.09-0.52mm ²
Insulation resistance	$\geq 10^{10}\Omega$	-AWG	28-20
Material	polycarbonate		
Limiting temperatures	-40°C ... +125°C		
Flammability acc. to UL 94	V0		
Mechanical working life			
- mating cycles	≥ 500		

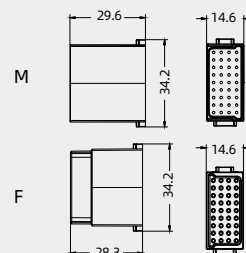
Remark: SPQ is 10pcs

Crimp terminal

Order crimp contacts separately



Insert	Designation	Order No.
Male	HMDS-036-MC	129 036 010 0001
Female	HMDS-036-FC	129 036 020 0001



Crimp contacts

Crimp contacts 5A

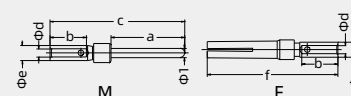
Contact resistance $\leq 3\text{m}\Omega$
silver plated

gold plated



Remark: SPQ is 100pcs

Male	Order No.	Female	Order No.
CSSM-0.25	101 014 110 0101	CSSF-0.25	101 014 120 0101
CSSM-0.33	101 014 110 0201	CSSF-0.33	101 014 120 0201
CSSM-0.52	101 014 110 0501	CSSF-0.52	101 014 120 0501
CSGM-0.25	101 014 210 0101	CSGF-0.25	101 014 220 0101
CSGM-0.33	101 014 210 0201	CSGF-0.33	101 014 220 0201
CSGM-0.52	101 014 210 0501	CSGF-0.52	101 014 220 0501



a	b	c	d	e	f
8.10	4.0	14.8	0.64	1.66	14.4
8.10	4.0	14.8	0.90	1.66	14.4
8.10	4.0	14.8	1.12	1.66	14.4

Wire gauge	Stripping length
0.09-0.25 mm ² AWG 28-24	5 mm
0.13-0.33 mm ² AWG 26-22	5 mm
0.33-0.52 mm ² AWG 22-20	5 mm

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HMDS-036 High Density module

Stamped contacts 5A

Contact resistance ≤ 10mΩ

silver plated



gold plated



coil stock



Note: 10kpcs/volume

Tools

Crimping tool



Contact removal tool

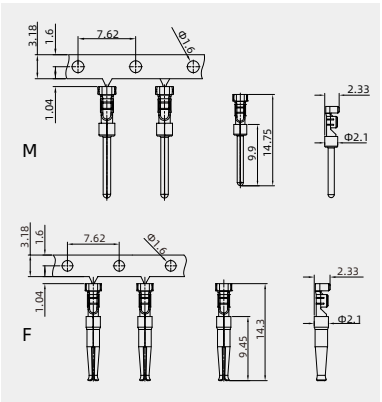


Remark: SPQ is 3000pcs

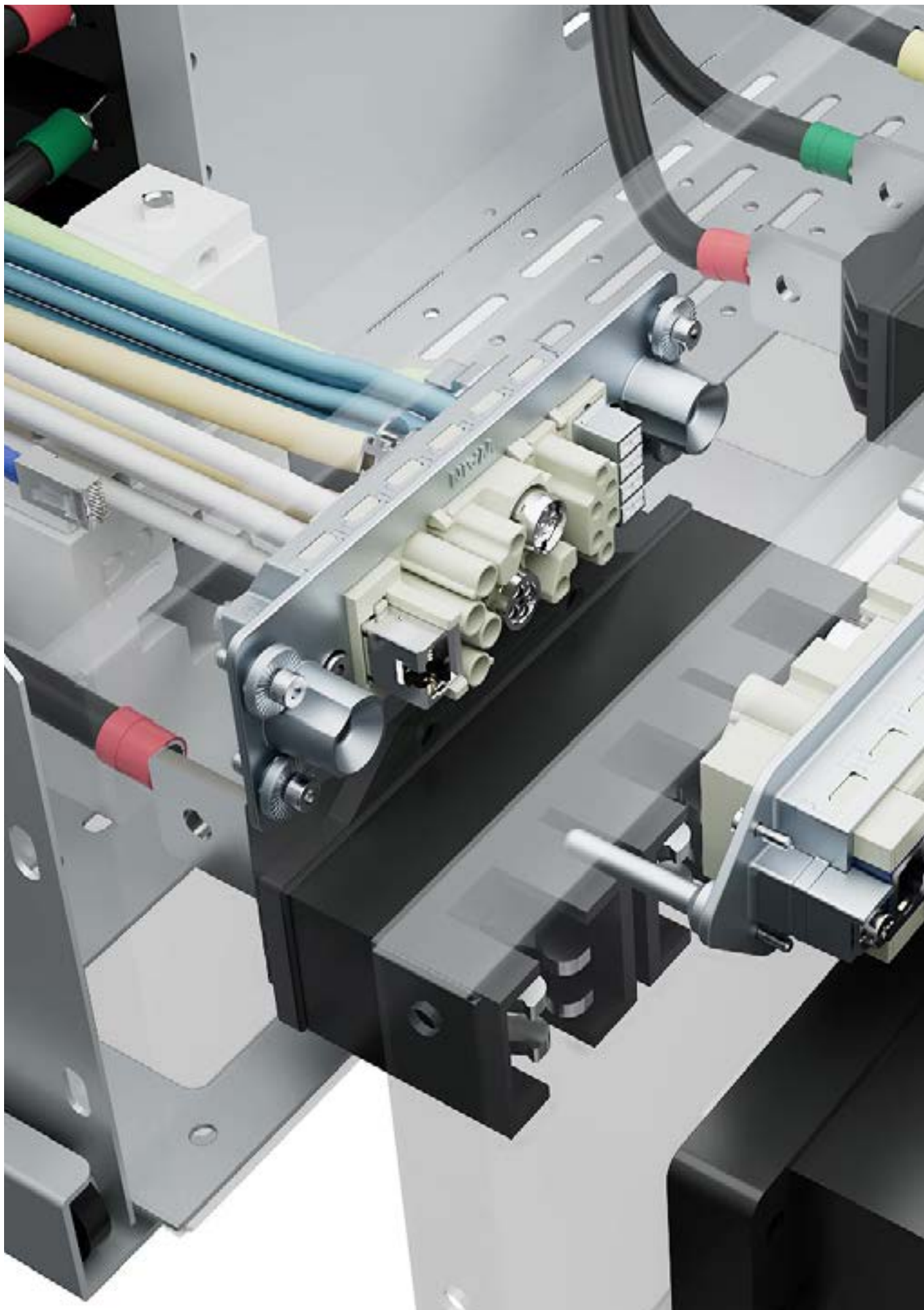
Male	Order No.	Female	Order No.
CSSM-0.82P	101 014 110 0750	CSSF-0.82P	101 014 120 0750
CSGM-0.82P	101 014 210 0750	CSGF-0.82P	101 014 220 0750

Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002
Application	Designation	Order No.
for 5A crimp contact	TL08	198 001 000 0006



Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.



HM-USB module

50V 1A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

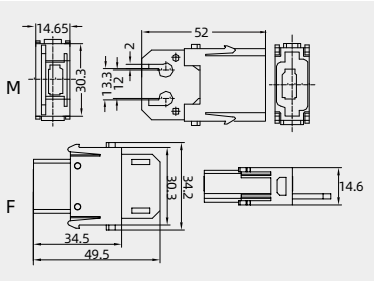
Specifications	DIN EN 60 664
	DIN EN 61 984
Approvals	
Inserts	
Number of contacts	8
Electrical dataacc. to EN 61 984	
-Rated current	1A
-Rated voltage	50V
-Rated impulse voltage	0.8kV
-Pollution degree	3
Insulation resistance	< 30V
Material	≥ 10 ¹⁰ Ω
Limiting temperatures	polycarbonate
Flammability acc. to UL 94	-40°C ...+85°C
Mechanical working life	V0
- mating cycles	≥ 3000

Remark: SPQ is 5pcs

Used to connect cables



Insert	Designation	Order No.
Male	HM-USB-M	129 001 001 0004
Female	HM-USB3.0-F	129 000 002 0002



HM-RJ45 module

50V 1A

Inserts



Male inserts only suitable for high structure shells.
Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	ENEC
Inserts	
Number of contacts	8
Electrical data acc. to EN 61 984	
- Rated current	1A
- Rated voltage	50V
- Rated impulse voltage	0.8kV
- Pollution degree	3
Rated voltage acc. to UL	< 30 V
Transmission features	Category 6 / Class E up to 500 MHz; acc. to ISO/IEC 11 801:2002 and EN 50 173-1
Transmission rate	10/100/1000Mbit/10Gbit/s
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +85°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycle	≥ 500

Inserts for patch cable



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HM-RJ45-M	229 001 001 0001
Female	HM-RJ45-F	129 001 002 0092

Adapter



Remark: SPQ is 1pc

Insert	Designation	Order No.
go with male insert for standard cable	HM-RJ45-APT/2	229 001 000 0005

Please refer to page 10-50 for matching cable (no plastic cable)
go with male insert: HM-RJ45-M/APT/2 129 001 001 0002

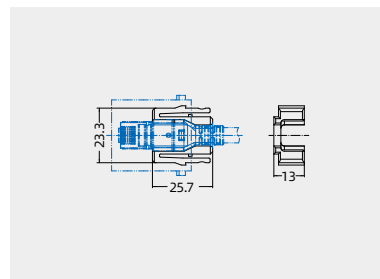
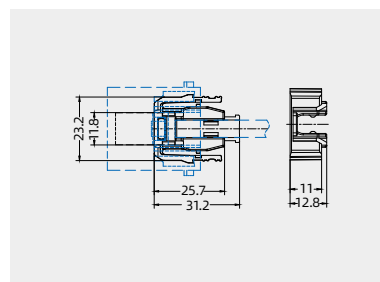
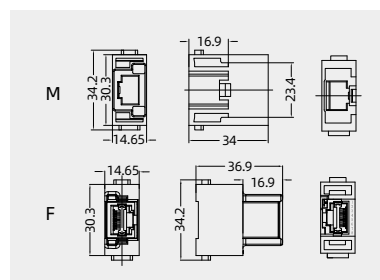
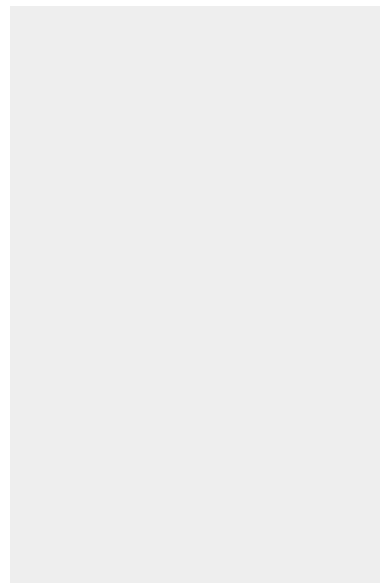
Adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
go with male insert for standard cable	HM-RJ45-APT	229 001 000 0003

Please refer to page 10-50.1 for matching cable
go with male insert: HM-RJ45-M/APT 129 001 001 0001



HM

HM-RJ45 module

50V 1A

Inserts

Technical characteristics

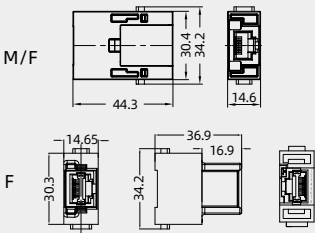
Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	8
Electrical dataacc. to EN 61 984	
-Rated current	1A
-Rated voltage	50V
-Rated impulse voltage	0.8kV
-Pollution degree	3
Rated voltage acc. to UL	< 30 V
Transmission features	Category 6 /Class E up to 500 MHz; acc. to ISO/IEC 11 801:2002 and EN 50 173-1
Transmission rate	10/100/1000Mbit/10Gbit/s
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40°C ...+85°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycle	≥ 500

Inserts for patch cable

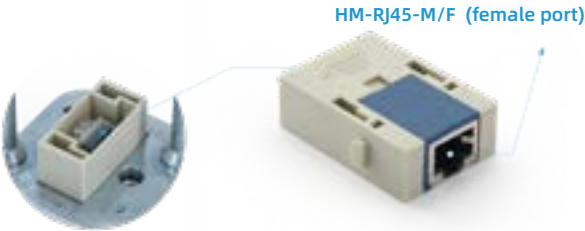


Insert	Designation	Order No.
Male	HM-RJ45-M/F	198 002 009 0001
Female	HM-RJ45-F	129 001 002 0092

Transmission features: Category 6 /Class E up to 500 MHz



HM



HM-RJ45-M/F (male port)

Characteristics

- Preset Registered jack, no need for on-site crimping and assembly
- The male module does not require additional adapter assembly
- Suitable for WAIN standard framework or single module framework
- Transmission features: Category 6 /Class E up to 500 MHz

HM-RJ45 Patch cables

50V 1A

Technical characteristics

Specifications	ISO/IEC 24 702 ISO/IEC 11 801 ISO/IEC 61 935-2	
Cat.5 e RJ45 Patch cables		Cat.6A RJ45 Patch cables
Transmission features	Category 5 /Class D up to 100 MHz;acc. to ISO/IEC 24 702 or ISO/IEC 11 801	Category 6 /Class D up to 500 MHz;acc. to ISO/IEC 24 702 or ISO/IEC 11 801
Transmission rate	10/100/1000 Mbit/s	10/100/1000 Mbit/10Gbit/s
Cable type	1:1 EIA/TIA 568 B, 8 poles	EIA/TIA 568 B,8 poles
Material cables	SF/UTP, PVC, blue	S/FTP,PUR,Water blue
Limiting temperatures	Limiting temperatures	
- mobile	0°C ...+60°C	0°C ...+60°C
- stationary	-40°C ...+80°C	-40°C ...+80°C
Flammability	flame retardant,halogen-free	lame retardant,halogen-free
Degree of protection	IP20	IP20

Assembly diagram

HM-RJ45-APT/2



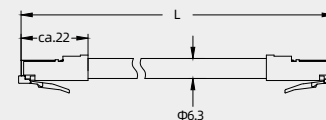
Remark: SPQ is 1pc

Standard cable¹⁾

1) Further cable length upon request.



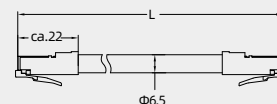
Length(L)	Designation	Order No.
1.5m	PC/2-RJ45-1.5(Cat.5e)	906 010 000 0048
2m	PC/2-RJ45-2.0(Cat.5e)	906 010 000 0049
3m	PC/2-RJ45-3.0(Cat.5e)	906 010 000 0050
4m	PC/2-RJ45-4.0(Cat.5e)	906 010 000 0051
5m	PC/2-RJ45-5.0(Cat.5e)	906 010 000 0052
7m	PC/2-RJ45-7.0(Cat.5e)	906 010 000 0053
9m	PC/2-RJ45-9.0(Cat.5e)	906 010 000 0054
10m	PC/2-RJ45-10.0(Cat.5e)	906 010 000 0055

Standard cable¹⁾

1) Further cable length upon request.



Length(L)	Designation	Order No.
1.5m	PC/2-RJ45-1.5(Cat.6A)-PUR	198 002 010 0005
2m	PC/2-RJ45-2.0(Cat.6A)-PUR	198 002 010 0006
3m	PC/2-RJ45-3.0(Cat.6A)-PUR	198 002 010 0007
4m	PC/2-RJ45-4.0(Cat.6A)-PUR	198 002 010 0008



HM

HM-RJ45 Patch cables

50V 1A

Technical characteristics

Specifications	ISO/IEC 24 702 ISO/IEC 11 801 ISO/IEC 61 935-2
Cat.6A RJ45 Patch cables	Assembly diagram HM-RJ45-APT
Transmission features	Category 6 /Class D up to 500 MHz;acc. to ISO/IEC 24 702 or ISO/IEC 11 801
Transmission rate	10/100/1000 Mbit/10Gbit/s
Cable type	EIA/TIA 568 B,8 poles
Material cables	S/FTP,PUR,Water blue
Limiting temperatures	
- mobile	0°C ...+60°C
- stationary	-40°C ...+80°C
Flammability	flame retardant, halogen-free
Degree of protection	IP20



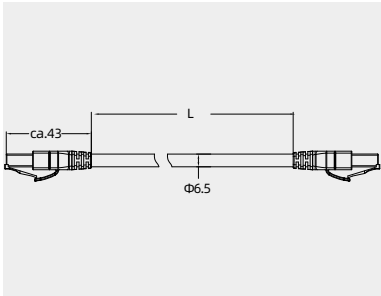
Standard cable¹⁾

1) Further cable length upon request.



Remark: SPQ is 1pc

Length(L)	Designation	Order No.
0.5m	2RJ45-M08-T-0.5-PUR-Cat.6a	172 008 401 4026
1.0m	2RJ45-M08-T-1.0-PUR-Cat.6a	172 008 401 4020
1.5m	2RJ45-M08-T-1.5-PUR-Cat.6a	172 008 401 4027
2m	2RJ45-M08-T-2.0-PUR-Cat.6a	172 008 401 4019
3m	2RJ45-M08-T-3.0-PUR-Cat.6a	172 008 401 4025
4m	2RJ45-M08-T-4.0-PUR-Cat.6a	172 008 401 4021
7m	2RJ45-M08-T-7.0-PUR-Cat.6a	172 008 401 4018



HMP-002 Pneumatic module

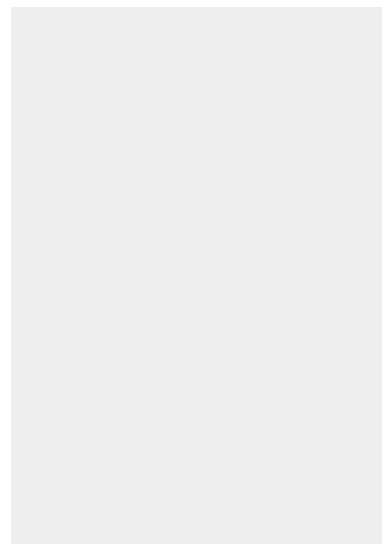


Combination with hinged frame and other modules possible.

Inserts

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts			
Number of contacts	2	Contacts	
Colour	blue	Material	delrin acetal
Material	polycarbonate	Colour	black
Limiting temperatures	-40°C ...+80°C	Tube termination	
Flammability acc. to UL 94	V0	- Internal diameter (ID)	6.0mm / 1/4 "
Mechanical working life		Working pressure	up to 8 bar / 116 psi
- mating cycles	≥ 500	Sealing	
		-Material	FPM
		Shut off valve	
		-Material	polyformaldehyde



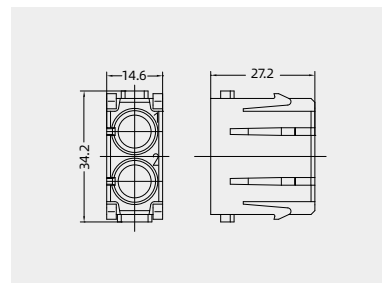
Pneumatic module

Order contacts separately



Remark: SPQ is 10pcs

Description	Designation	Order No.
for 6 mm	HMP-002	129 002 000 0001



Contacts

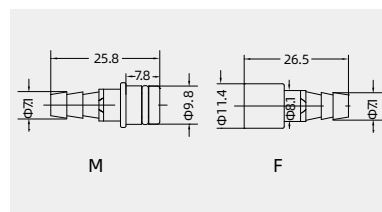
Remark: SPQ is 1pc

Pneumatic contacts

for tube internal diameter (ID)



Description	Category	ID	Designation	Order No.
without shut off Male		6.0mm	PCM-6.0	101 100 001 0004
without shut off Female		6.0mm	PCF-6.0	101 100 002 0004

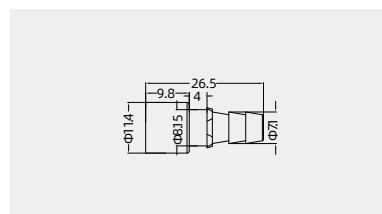


Pneumatic contacts

for tube internal diameter (ID)



Description	Category	ID	Designation	Order No.
with shut off Female		6.0mm	PCFS-6.0	101 100 002 0014



HM

HMP-003 Pneumatic module

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications		DIN EN 60 664	
		DIN EN 61 984	
Approvals			
Inserts		Contacts	
Number of contacts	3	Material	polyformaldehyde
Colour	blue	Colour	black
Material	polycarbonate	Tube termination	
Limiting temperatures	-40°C ...+80°C	- Internal diameter (ID)	1.6mm / 1/16 "
Flammability acc. to UL 94	V0		3.0mm
Mechanical working life			4.0mm / 1/8 "
- mating cycles	≥ 500	Working pressure	up to 8 bar / 116 psi
		Sealing	
		-Material	FPM
		Shut off valve	
		-Material	polyformaldehyde

Pneumatic module
Order contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
	HMP-003	129 003 000 0001

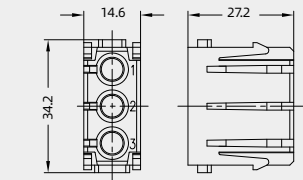
Contacts

Remark: SPQ is 1pc

Pneumatic contacts
for tubeinternal diameter(ID)



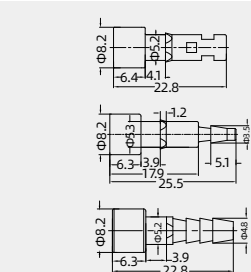
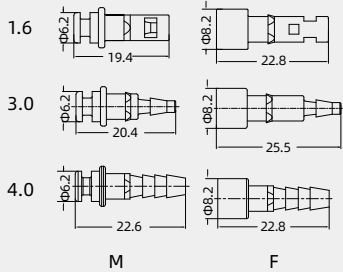
Description	Category	ID	Designation	Order No.
without shut off	Male	1.6 mm	PCM-1.6	101 100 001 0001
		3.0 mm	PCM-3.0	101 100 001 0002
		4.0 mm	PCM-4.0	101 100 001 0003
without shut of	Female	1.6 mm	PCF-1.6	101 100 002 0001
		3.0 mm	PCF-3.0	101 100 002 0002
		4.0 mm	PCF-4.0	101 100 002 0003



Pneumatic contacts
for tubeinternal diameter(ID)



Description	Category	ID	Designation	Order No.
with shut off	Female	1.6 mm	PCFS-1.6	101 100 002 0011
		3.0 mm	PCFS-3.0	101 100 002 0012
		4.0 mm	PCFS-4.0	101 100 002 0013



HMP-003 Metal Pneumatic Module



Combination with hinged frame and other modules possible.

Inserts

Technical characteristics

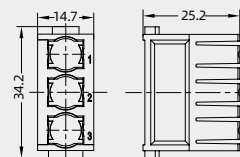
Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	3
Material	polycarbonate
Limiting temperatures	-40°C ...+80°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 500
Contacts	
Material	copper
Colour	nickel plating
Tube termination	
- Outer diameter (OD)	3.0mm / 4.0mm / 6.0mm
Working pressure	up to 10 bar / 145 psi
Sealing	
-Material	FPM
Shut off valve	
-Material	polyformaldehyde

Remark: SPQ is 10pcs

Metal Pneumatic Module
Order contacts separately



Insert	Designation	Order No.
	HMP-003-V2	129 003 000 0505



Contacts

Remark: SPQ is 10pcs

Metal Pneumatic Contacts

Used for Flexible Tube(OD)



Description	Category	OD	Designation	Order No.
without shut off	Male	3.0mm	MPCM-OD3.0	101 100 001 0005
		4.0mm	MPCM-OD4.0	101 100 001 0006
		6.0mm	MPCM-OD6.0	101 100 001 0007
without shut off	Female	3.0mm	MPCF-OD3.0	101 100 002 0017
		4.0mm	MPCF-OD4.0	101 100 002 0019
		6.0mm	MPCF-OD6.0	101 100 002 0021

OD	ΦA	B	ΦC	D
3.0	8	43.7	8	48
4.0	9.8	43.9	9.8	50.2
6.0	9.8	45.9	9.8	52.2

Metal Pneumatic Contacts

Used for Flexible Tube(OD)



Description	Category	OD	Designation	Order No.
with shut off	Female	3.0mm	MPCFS-OD3.0	101 100 002 0016
		4.0mm	MPCFS-OD4.0	101 100 002 0018
		6.0mm	MPCFS-OD6.0	101 100 002 0020

OD	ΦA	B	C	D
3.0	8	71	34.8	48
4.0	9.8	71	36.8	50.2
6.0	9.8	91	36.8	52.2

Tools

Contact removal tool



Remark: SPQ is 1pc

Application	Designation	Order No.
for HMP-003-V2 Metal Pneumatic Module	TL26	198 001 000 0030

HMP-003 Metal Pneumatic Module

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications		DIN EN 60 664	
		DIN EN 61 984	
Approvals			
Inserts		Contacts	
Number of contacts	3	Material	copper
Material	polycarbonate	Colour	nickel plating
Limiting temperatures	-40°C ...+80°C	Tube termination	
Flammability acc. to UL 94	V0	- Internal diameter (ID)	3.0mm / 4.0mm / 6.0mm
Mechanical working life		Working pressure	up to 10 bar / 145 psi
- mating cycles	≥ 500	Sealing	
		-Material	FPM
		Shut off valve	
		-Material	polyformaldehyde

Metal Pneumatic Module
Order contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
	HMP-003-V2	129 003 000 0505

Contacts

Metal Pneumatic Contacts
Used for Flexible Tube(ID)



Remark: SPQ is 10pcs

Description	Category	ID	Designation	Order No.
without shut off	Male	3.0mm	MPCM-ID3.0	101 100 001 1102
		4.0mm	MPCM-ID4.0	101 100 001 1201
		6.0mm	MPCM-ID6.0	101 100 401 1301
without shut off	Female	3.0mm	MPCF-ID3.0	101 100 002 1102
		4.0mm	MPCF-ID4.0	101 100 002 1202
		6.0mm	MPCF-ID6.0	101 100 402 1302

Metal Pneumatic Contacts
Used for Flexible Tube(ID)



Description	Category	ID	Designation	Order No.
with shut off	Male	6.0mm	MPCMS-ID6.0	101 100 400 1301
with shut off	Female	3.0mm	MPCFS-ID3.0	101 100 002 1101
		4.0mm	MPCFS-ID4.0	101 100 002 1201
		6.0mm	MPCFS-ID6.0	101 100 402 1301

Tools

Contact removal tool



Remark: SPQ is 1pc

Application	Designation	Order No.
for HMP-003-V2 Metal Pneumatic Module	TL26	198 001 000 0030

HMP-003 Metal Pneumatic Module



Inserts

Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	3
Material	polycarbonate
Limiting temperatures	-40°C ...+80°C
Flammability acc. to UL 94	V0
Mechanical working life	
- mating cycles	≥ 10000
Contacts	
Material	copper
Colour	nickel plating
Tube termination	
- Outer diameter (OD)	3.0mm / 4.0mm / 6.0mm
Working pressure	up to 15 bar / 217.5 psi
Sealing	
-Material	NBR
Shut off valve	
-Material	SUS304

Metal Pneumatic Module
Order contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
	HMP-003-V2	129 003 000 0505

Contacts



Remark: SPQ is 10pcs

Metal Pneumatic Contacts

Used for Flexible Tube(OD)



Description	Category	OD	Designation	Order No.
without shut off	Male	3.0mm	MPCM/A-OD3.0	101 100 401 0050
		4.0mm	MPCM/A-OD4.0	101 100 401 0051
		6.0mm	MPCM/A-OD6.0	101 100 401 0052
without shut off	Female	3.0mm	MPCF/A-OD3.0	101 100 402 0053
		4.0mm	MPCF/A-OD4.0	101 100 402 0054
		6.0mm	MPCF/A-OD6.0	101 100 402 0055

M	ΦA	B	ΦC	D
F	ΦC	D	ΦD	
OD	ΦA	B	ΦC	D
3.0	8	45.2	8	39.6
4.0	9.8	45.4	9.8	42.9
6.0	9.8	47.4	9.8	44.9

Metal Pneumatic Contacts

Used for Flexible Tube(OD)



Description	Category	OD	Designation	Order No.
with shut off	Female	3.0mm	MPCFS/A-OD3.0	101 100 402 0050
		4.0mm	MPCFS/A-OD4.0	101 100 402 0051
		6.0mm	MPCFS/A-OD6.0	101 100 402 0052

F	ΦA	B	ΦD
OD	ΦA	B	
3.0	8	39.6	
4.0	9.8	42.9	
6.0	9.8	44.9	

Tools

Contact removal tool



Remark: SPQ is 1pc

Application	Designation	Order No.
for HMP-003-V2 Metal Pneumatic Module	TL26	198 001 000 0030

HMP-003 Metal Pneumatic Module



Inserts

Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Inserts		Contacts	
Number of contacts	3	Material	copper
Material	polycarbonate	Colour	nickel plating
Limiting temperatures	-40°C ...+80°C	Tube termination	
Flammability acc. to UL 94	V0	- Internal diameter (ID)	3.0mm / 4.0mm / 6.0mm
Mechanical working life		Working pressure	up to 15 bar / 217.5 psi
- mating cycles	≥ 10000	Sealing	
		-Material	NBR
		Shut off valve	
		-Material	SUS304

Metal Pneumatic Module
Order contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
	HMP-003-V2	129 003 000 0505

Contacts



Metal Pneumatic Contacts
Used for Flexible Tube(ID)



Remark: SPQ is 10pcs

Description	Category	ID	Designation	Order No.
without shut off	Male	3.0mm	MPCM/A-ID3.0	101 100 401 0053
		4.0mm	MPCM/A-ID4.0	101 100 401 0054
		6.0mm	MPCM/A-ID6.0	101 100 401 0055
without shut off	Female	3.0mm	MPCF/A-ID3.0	101 100 402 0059
		4.0mm	MPCF/A-ID4.0	101 100 402 0060
		6.0mm	MPCF/A-ID6.0	101 100 402 0061

Metal Pneumatic Contacts
Used for Flexible Tube(ID)



Description	Category	ID	Designation	Order No.
with shut off	Female	3.0mm	MPCFS/A-ID3.0	101 100 402 0056
		4.0mm	MPCFS/A-ID4.0	101 100 402 0057
		6.0mm	MPCFS/A-ID6.0	101 100 402 0058

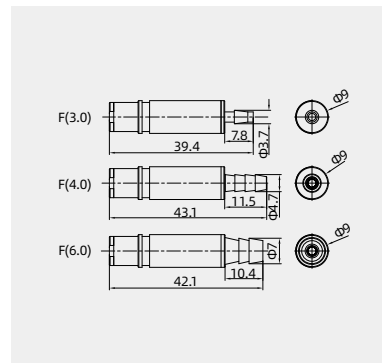
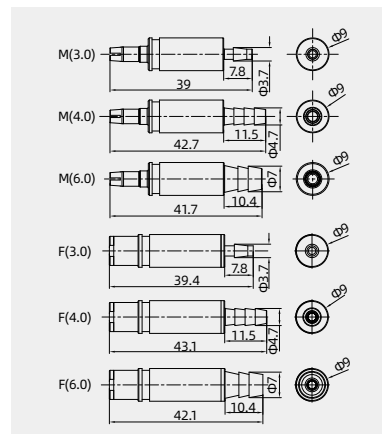
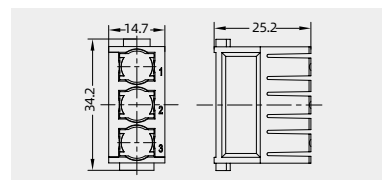
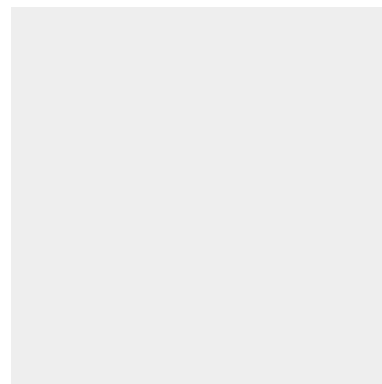
Tools

Contact removal tool



Remark: SPQ is 1pc

Application	Designation	Order No.
for HMP-003-V2 Metal Pneumatic Module	TL26	198 001 000 0030



HMSC-004 SC Fiber module



Inserts

Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664
	DIN EN 61 984

Approvals

Inserts	
Number of contacts	4
Insertion loss	< 0.5 dB
Material polycarbonate	polycarbonate
Limiting temperatures	-40 ° C ... +85 ° C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500

Assembly instructions

HMSC-004-MC

Assemble the SC contact
Push the SC contact from the side into the relevant insert (1)
Push the fixing plate from the side over the contacts (2)
B: SC contact fixed in the module

HMSC-004-MC

Assemble the SC contact
Push the centering ferrule (included in delivery) on the SC contact (1)
Push the SC contact from the side into the relevant insert (2)
Push the fixing plate from the side over the contacts (3)
B: SC contact fixed in the module

SC module

Order SC Optical fiber connector separately



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HMSC-004-MC	129 004 010 0091
Female	HMSC-004-FC	129 004 020 0091

SC Optical fiber connector¹⁾

Remark: SPQ is 1pc

SC Optical fiber connector

singlemode: 9/125μm ,for GI fibre



Description	Designation	Order No.
Spare parts ²⁾	SC-PC/SM-3.0	295 000 001 0002
Fiber 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 connector

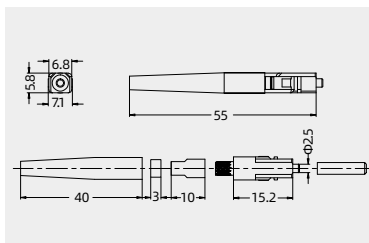
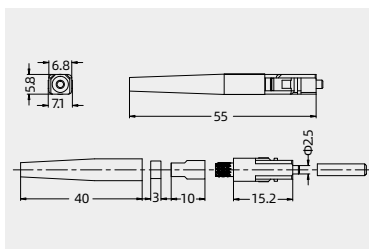
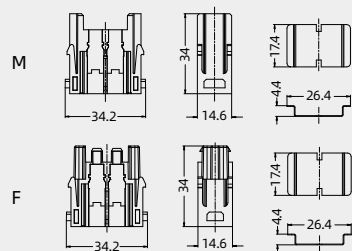
multimode: 50/125μm or 62.5/125μm, for GI fibre



Description	Designation	Order No.
Spare parts ²⁾	SC-PC/MM-3.0	295 000 001 0001
Fiber 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) SC, FC, ST, LC, MTRJ, different specifications and lengths of fiber optic jumper can be customized

2) Order spare parts should be equipped with corresponding equipment



HASC-004 SC Fiber module

Hoods/Housings: **size 3A with sealing**, please find the details on page 10-64~10-70.
cannot match the metal hood : HP3A/H-BK-SE,
HP3A/H-SF-2H-M20,HP3A/H-SF-2H-PG13.5,HP3A/H-SF-2H

Inserts

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Inserts	Assembly instructions
Number of contacts	4
Insertion loss	< 0.5 dB
Material polycarbonate	polycarbonate
Limiting temperatures	-40 ° C ... +85 ° C
Flammability acc. to UL 94 V 0	
Mechanical working life	
- mating cycles	≥ 500
• Degree of protection up to IP 65/IP68	
• For WAIN fibre optic SC Optical fiber connector ;	
up to 4 SC Optical fiber connector	
• For Multimode fibre 50 - 62.5 / 125 µm and	
Singlemode fibre 9 / 125 µm	

HASC-004-MC

Assemble the SC contact
(1) Push the SC contact from the side into the relevant insert
(2) Push the spring clip over the contact body.

HASC-004-FC

Assemble the SC contact
(1) Push the centering ferrule (included in delivery) on the SC contact
(2) Push the SC contact from the side into the relevant insert
(3) Push the spring clip over the contact body.

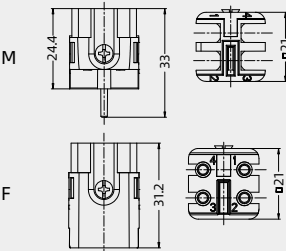
SC module

Order SC Optical fiber connector separately



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HASC-004-MC	121 004 010 0001
Female	HASC-004-FC	121 004 020 0001



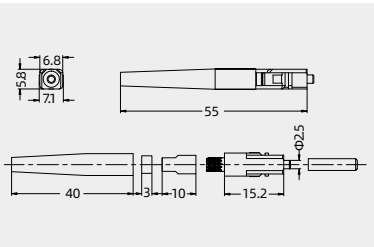
SC Optical fiber connector¹⁾

Remark: SPQ is 1pc

SC Optical fiber connector
singlemode: 9/125µm ,for GI fibre



Describtion	Designation	Order No.
Spare parts ²⁾	SC-PC/SM-3.0	295 000 001 0002
Fiber 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

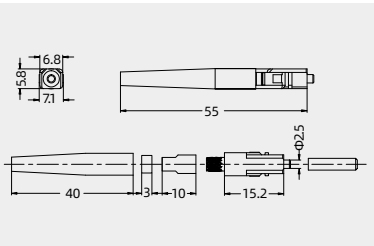


SC Optical fiber connector

multimode: 50/125µm or 62.5/125µm,
for GI fibre



Describtion	Designation	Order No.
Spare parts ²⁾	SC-PC/MM-3.0	295 000 001 0001
Fiber 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) SC、FC、ST、LC、MTRJ,different specifications and lengths of fiber optic jumper can be customized
2) Order spare parts should be equipped with corresponding equipment

HMLC-006 LC Fiber module

Inserts



Combination with hinged frame and other modules possible.

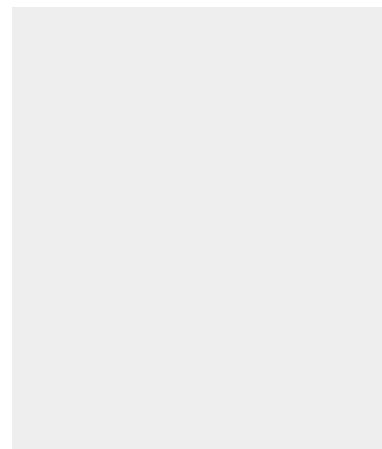
Technical characteristics

Specifications	DIN EN 60 664
	DIN EN 61 984

Approvals

Inserts

Number of contacts	4
Insertion loss	< 0.5 dB
Material polycarbonate	polycarbonate
Limiting temperatures	-40 ° C ... +85 ° C
Flammability acc. to UL 94	V 0
Colour	RAL 7032(light grey)
Mechanical working life	
- mating cycles	≥ 500



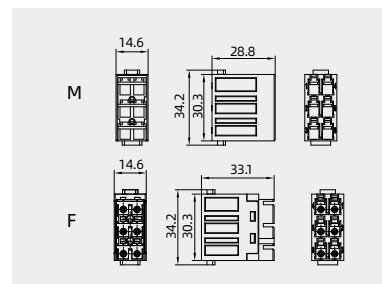
LC module

Order LC Optical fiber connector separately



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HMLC-006-MC	129 006 010 0505
Female	HMLC-006-FC	129 006 020 0505

LC Optical fiber connector¹⁾

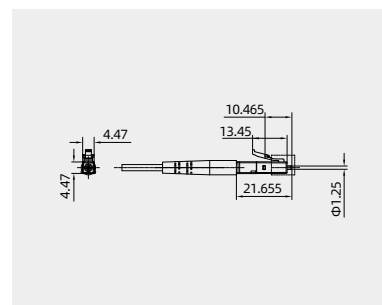
Remark: SPQ is 1pc

LC Optical fiber connector 2.0/3.0

singlemode: 9/125μm



Description	Designation	Order No.
Spare parts ²	LC-SM-2.0	101 000 000 0050
	LC-SM-3.0	101 000 000 0051

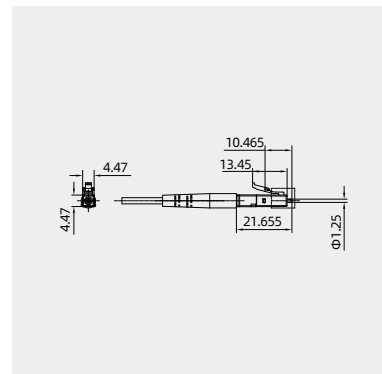


LC Optical fiber connector 2.0/3.0

multimode: 50/125μm



Description	Designation	Order No.
Spare parts ²	LC-MM-2.0	101 000 000 0052
	LC-MM-3.0	101 000 000 0053



- 1) SC, FC, ST, LC, MTRJ, different specifications and lengths of fiber optic jumper can be customized
 2) Order spare parts should be equipped with corresponding equipment

H3A RJ45

125V AC 1.5A Combination of RJ45 and H3A Hoods/Housings

Inserts

Technical characteristics

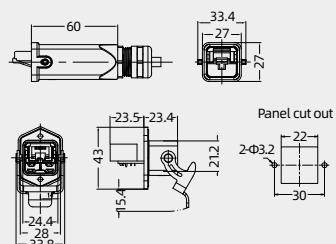
Specifications	ISO/IEC 11 801:2002 EN 50 173-1		
Inserts	Hoods/Housings		
Number of contacts	8	Material	Zinc alloy, SprayingRAL7037
Transmission performance	Category 5 /Class E up to100 MHz acc. to ISO/IEC 11 801:2002, EN 50 173-1	Degree of protection	IP65
Transmission rate	10/100 Mbit/s,1 Gbit/s		
Shielding	fully shielded,360° shielding contact		
Cable termination	with piercing		
Limiting temperatures	-40°C ...+70°C		
Mechanical working life	- mating cycle	≥ 500	

备注：标准包装量 1pc

H3A RJ45 With cable gland



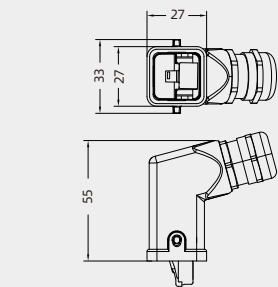
Insert	Designation	Order No.
Male	H3A-TE/S-2B-PG11-RJ45/M	110 003 410 1191
	H3A-TE/S-2B-M20-RJ45/M	110 003 400 1192
Female	H3A-BK-1L/W-RJ45/F	110 003 324 1091
	H3A-BK-1L/W-MCV-RJ45/F	110 003 324 1092



H3A RJ45, side entry, With cable gland



Insert	Designation	Order No.
Male	H3A-SE/S-2B-PG11-RJ45/M	110 003 510 1191
	H3A-SE/S-2B-M20-RJ45/M	110 003 510 1192

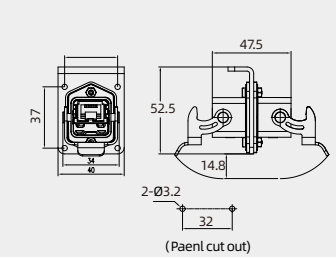


HM

H3A RJ45 Cat5e coupler



Insert	Designation	Order No.
Female	H3A-BK-1L/W-2RJ45/F	110 003 324 1512



Structural characteristics and assembly instruction

Functional characteristics:

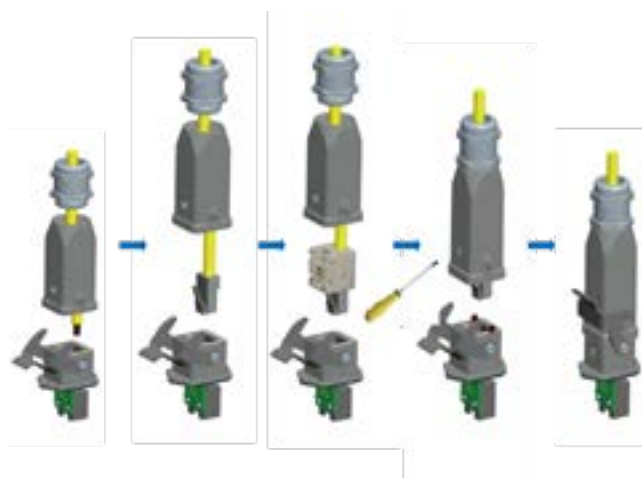
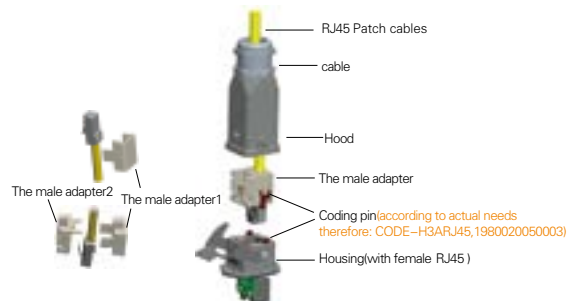
- ① Compatible with standard shielding CAT5 RJ45 connector on the market;
- ② Coding pin provides coding function.

Innovation:

- ① The boss of male adapter 1 positioned together with the groove of network cable of ordinary shielding RJ45;
- ② Male adapter has groove to fix the network cable;
- ③ Male adapter 1 and male adapter 2 cooperate by a hook;
- ④ Coding pin provides coding function.

Assembly instructions:

- Step 1: Put one end of the network cable through the cable gland, strip length is about 15 mm, straighten the cable;
- Step 2: Use the wire crimper to connect the cable and the crystal head;
- Step 3: Install the crystal head in the adapter;
- Step 4: Lock the adapter in the hood with a screwdriver (Torque 0.5 N.M), lock the cable gland with a wrench. If needed, a coding pin can also be used, and be careful about the mating of the hood and the housing, and the installation direction of the coding pin;
- Step 5: Lock the hood and the housing with the lever.



H3A RJ45

125V AC 1.5A Combination of RJ45 and H3A Hoods/Housings

Inserts

Technical characteristics

Specifications	ISO/IEC 11 801:2002 EN 50 173-1		
Inserts	Hoods/Housings		
Number of contacts	8	Material	Zinc alloy,SprayingRAL7037
Transmission performance	Category 6 /Class D up to 500MHZ acc. ISO/IEC 11 801:2002, EN 50 173-1	Degree of protection	IP65
Transmission rate	10/100/1000Mbit/10Gbit/s		
Shielding	fully shielded,360° shielding contact		
Cable termination	with piercing		
Limiting temperatures	-40°C ...+85°C		
Mechanical working life	- mating cycle	≥ 500	

Remark: SPQ is 1pc

H3A RJ45, top entry, With cable gland



Insert	Designation	Order No.
Male	H3A-TE/S-2B-PG11-RJ45/M-cat.6a	121 000 099 0500
	H3A-TE/S-2B-M20-RJ45/M-cat.6a	121 000 099 0501

H3A RJ45 With cable gland

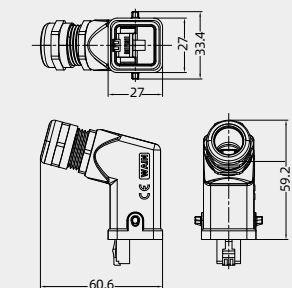
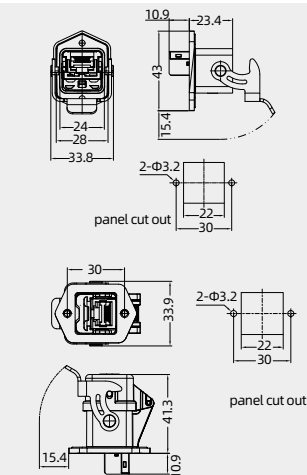
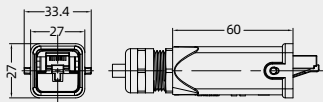


Insert	Designation	Order No.
Female	H3A-BK-1L/W-RJ45/F-cat.6a	121 000 099 0502
	H3A-BK-1L/W-MCV-RJ45/F-cat.6a	121 000 099 0503

H3A RJ45, side entry, With cable gland



Insert	Designation	Order No.
Male	H3A-SE/S-2B-M20-RJ45/M-cat.6a	110 003 515 1500



H3A RJ45

48V 16A Combination of RJ45 and H3A Hoods/Housings

Inserts

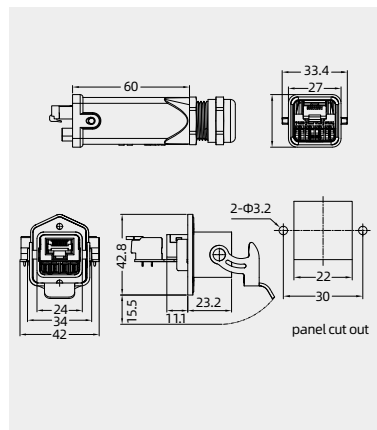
Technical characteristics

Specifications	ISO/IEC 11 801:2002 EN 50 173-1		
Inserts(male)		Inserts(female)	
Number of contacts	4(data) + 4(power)	Number of contacts	8(data) + 4(power)
Transmission performance	Category 5 /Class E up to100 MHz acc. to ISO/IEC 11 801:2002, EN 50 173-1	Transmission performance	Category 6 /Class D up to 500MHZ acc. ISO/IEC 11 801:2002, EN 50 173-1
Transmission rate	10/100Mbit/s	Transmission rate	10/100/1000Mbit/10Gbit/s
Shielding	fully shielded,360°	Shielding	fully shielded,360° shielding contact
Wire termination	Puncture contact(data), IDC puncture(power)	Teminal	spring terminal(power)
Cable diameter	6...12mm	Pulse withstand voltage	800V
Rated voltage	48V	Rated voltage	48V
Rated current	16A	Rated current	16A
conductor cross-section	24AWG..22AWG(data), 16AWG(power)	conductor cross-section	22AWG...12AWG(power), 0.34...4.0mm ² (power)
	0.22...0.32mm ² (data), 1.5mm ² (power)	Limiting temperatures	-40°C ...+70°C
Limiting temperatures	-40°C ...+70°C	Mechanical working life	- mating cycle ≥ 500
Mechanical working life	- mating cycle ≥ 500		
Hoods/Housings			
Material	Zinc alloy,SprayingRAL7037		
Degree of protection	IP65		

H3A RJ45 With cable gland

Remark: SPQ is 1pc

Insert	Designation	Order No.
Male	H3A-TE/S-2B-M20-004/RJ45-M	121 008 001 0501
Female	H3A-BK-1L/W-004/RJ45-F	121 008 002 0501



H3A RJ45

Combination of RJ45 and H3A Hoods/Housings

Inserts

Technical characteristics



Specifications	ISO/IEC 11 801:2002 EN 50 173-1		
Inserts(male)	Hoods/Housings		
Number of contacts	4	Material	Zinc alloy, SprayingRAL7037
Transmission performance	Category 5 /Class E up to100 MHz acc. to ISO/IEC 24702; ISO/IEC11801	Degree of protection	IP65
Transmission rate	10/100/1000Mbit		
Shielding	fully shielded, 360°		
Cable termination	with piercing		
Sigle core insulation outer iameter	1.6mm MAX		
Material	PC		
Limiting temperatures	-40°C ...+85°C		
Mechanical working life	≥ 500		
- mating cycle			

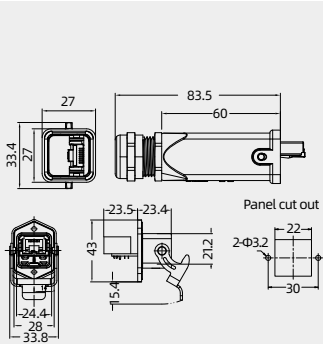
H3A RJ45 With cable gland



Remark: SPQ is 1pc

Insert	Designation	Order No.
Male	H3A-TE/S-2B-M20-RJ45/M-4P	110 003 410 1543
Female	H3A-BK-1L/W-RJ45/F	110 003 324 1091
	H3A-BK-1L/W-MCV-RJ45/F	110 003 324 1092

Note: Compatible with 4-core network cable.



Q-Coax Electromagnetic screening module



Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	UL CE ENEC
Inserts	
Number of contacts	1,2
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ...+125°C
Flammability acc. to UL 94	V0
Mechanical working life(mating cycles)	≥ 500
Q-Coax contacts	
Number of contacts	
- Q-Coax	4 + shielding
- High Density Q-Coax	8 + shielding
Electrical data acc. to EN 61 984	
- Q-Coax	10A 50V 0.8kV 3
- High Density Q-Coax	5A 50V 0.8kV 3
Rated current	10/5A
Rated voltage	50V
Rated impulse voltage	0.8kV
Pollution degree	3
Material	
- Insulator	polycarbonate
- Outer conductor	zinc alloy
Contact resistance	$\leq 4m\Omega$
Limiting temperatures	-40°C ...+85°C
Flammability acc. to UL 94	V0
Outer surface finish	nickel
Cable diameter	3-9.5mm
D-Sub crimp contacts(5A)	
Material	copper alloy
Surface	hard-gold plated
Contact resistance	$\leq 3m\Omega$
Crimp terminal	
-mm ²	0.09-0.52mm ²
-AWG	28-20
D contacts(10A)	
Material	copper alloy
Surface	hard-gold plated
Contact resistance	$\leq 3m\Omega$
Crimp terminal	
-mm ²	0.14-2.5mm ²
-AWG	26-14

• Features

- Shielding bus separate from housing potential
- Perfect for transmission of sensitive signals
- The four pole Q-Coax contact is suitable for Ethernet Cat. 5e and PROFIBUS when diagonally wiring of the data pairs.

Q-Coax Electromagnetic screening module

Assembly instructions see P10-63.



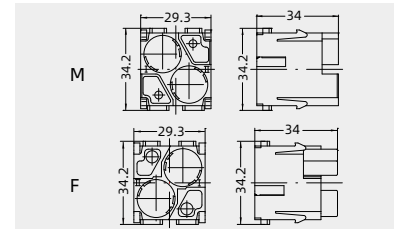
Combination with hinged frame and other modules possible.

Crimp terminal



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	H2M-002-M	129 002 001 0001
Female	H2M-002-F	129 002 002 0001

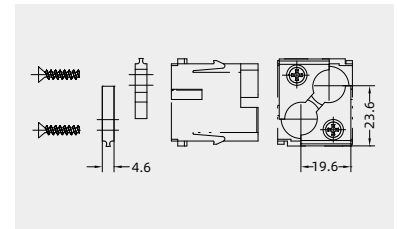


Q-Coax metal adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT-H2MQ	198 002 007 0006

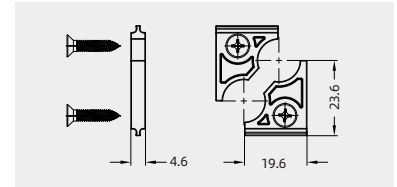


Q-Coax plastic adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT.P-H2MQ	198 002 007 0032

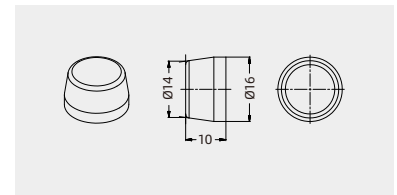


Rubber stopper



Remark: SPQ is 1pc

Description	Designation	Order No.
	φ16*10	198 002 099 0035



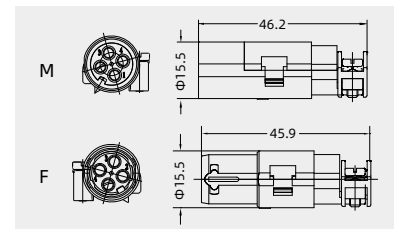
Q-Coax 4 + shielding

Crimp contacts 10A
Order crimp contacts separately
Cable diameter 3mm-9.5mm



Remark: SPQ is 10pcs

Description	Designation	Order No.
Male	EMC-004-MC	129 004 010 0082
Female	EMC-004-FC	129 004 020 0082



HM

Crimp contacts

Crimp contacts 10A

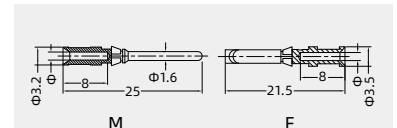
Contact resistance ≤ 3mΩ
gold plated



More 10A crimp contacts
see P13-02, P13-03.

Remark: SPQ is 100pcs

Wire gauge	Male	Order No.	Female	Order No.
0.09-0.25	CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
0.14-0.37	CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
0.5	CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
0.75	CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
1	CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
1.5	CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
2.5	CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001



Detail please find the
crimp contacts series

When the wire gauge is less than
0.75mm², it's better to use the
auxiliary pin assembly tool TL15.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

*Please find the details of crimp contact tools on page 32-02~32-05.

Q-Coax Electromagnetic screening module

Assembly instructions see P10-63.



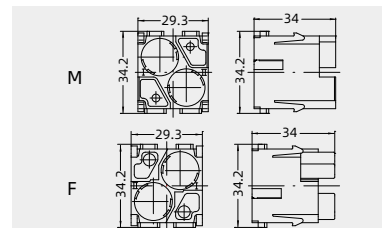
Combination with hinged frame and other modules possible.

Crimp terminal



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	H2M-002-M	129 002 001 0001
Female	H2M-002-F	129 002 002 0001

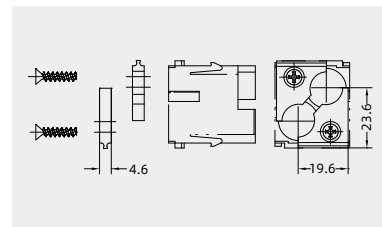


Q-Coax metal adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT-H2MQ	198 002 007 0006

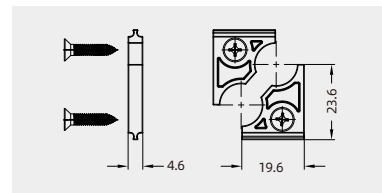


Q-Coax plastic adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT.P-H2MQ	198 002 007 0032

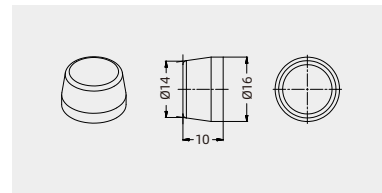


Rubber stopper



Remark: SPQ is 1pc

Description	Designation	Order No.
	φ16*10	198 002 099 0035



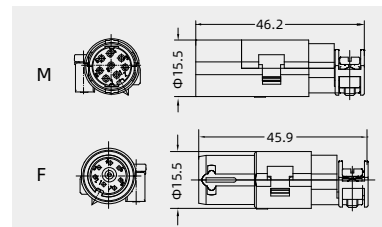
Q-Coax 8 + shielding

Crimp contacts 5A
Order crimp contacts separately
Cable diameter 3mm-9.5mm



Remark: SPQ is 10pcs

Description	Designation	Order No.
Male	EMC-008-MC	129 008 010 0082
Female	EMC-008-FC	129 008 020 0082



Crimp contacts

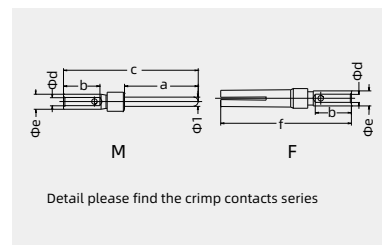
Crimp contacts 5A

Contact resistance ≤ 3mΩ
gold plated



备注: 标准包装量 100pcs

Male	Order No.	Female	Order No.
CSGM-0.25	101 014 210 0101	CSGF-0.25	101 014 220 0101
CSGM-0.33	101 014 210 0201	CSGF-0.33	101 014 220 0201
CSGM-0.52	101 014 210 0501	CSGF-0.52	101 014 220 0501



Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

*Please find the details of crimp contact tools on page 32-02~32-05.

Q-Coax Electromagnetic screening module

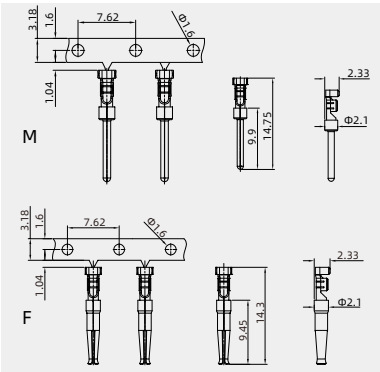
Stamped contacts 5A

Remark: SPQ is 3000pcs

Contact resistance ≤ 10mΩ

silver plated	Male CSSM-0.82P	Order No. 101 014 110 0750	Female CSSF-0.82P	Order No. 101 014 120 0750
gold plated				
	CSGM-0.82P	101 014 210 0750	CSGF-0.82P	101 014 220 0750
coil stock				

Note: 10kpcs/volume



Coax Electromagnetic screening module



Technical characteristics

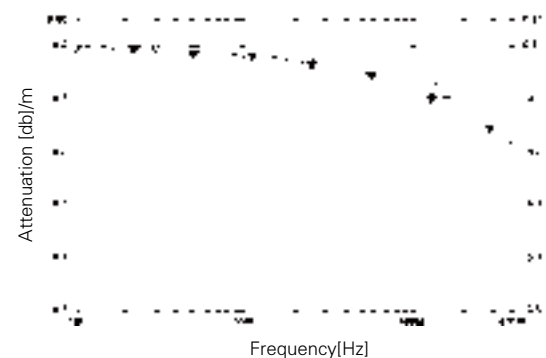
Specifications	DIN EN 60 664	DIN EN 61 984
Approvals	CE ENEC	
Inserts		
Number of contacts	1,2	
Insulation resistance	≥ 10 ¹⁰ Ω	
Material	polycarbonate	
Limiting temperatures	-40°C ...+85°C	
Flammability acc. to UL 94	V0	
Mechanical working life(mating cycles)	≥ 500	
Coax contacts		
Number of contacts	1 + shielding	
Electrical data acc. to EN 61 984		
- D Coax	10A 50V 0.8kV 3	
- E Coax	16A 50V 0.8kV 3	
Rated current	10/16A	
Rated voltage	50V	
Rated impulse voltage	0.8kV	
Pollution degree	3	
Impedance		
- D Coax	75Ω	
- E Coax	50Ω	
Material		
- Insulator	polycarbonate	
- Outer conductor	zinc alloy	
Contact resistance	≤ 4mΩ	
Limiting temperatures	-40°C ...+85°C	
Flammability acc. to UL 94	V0	
Outer surface finish	nickel	
Cable diameter	3-9.5mm	
D Coax contacts(10A)		
Material	copper alloy	
Surface	hard-gold plated	
Contact resistance	≤ 3mΩ	
Crimp terminal		
-mm ²	0.14-2.5mm ²	
-AWG	26-14	
E Coax contacts		
Material	copper alloy	
Surface	hard-gold plated	
Contact resistance	≤ 1mΩ	
Crimp terminal		
-mm ²	0.14-4mm ²	
-AWG	26-12	

Features

- Shielding bus separate from housing potential
- Perfect for transmission of sensitive signals
- The four pole Q-Coax contact is suitable for Ethernet Cat. 5e and PROFIBUS when diagonally wiring of the data pairs.

Transmission characteristics

Impedance 75 Ω



- 75 Ω cable
- 75 Ω cable with D Coax contacts
- 75 Ω coax cable diameter shielding: 7.3 mm

Impedance 50 Ω

E Coax with ETCS S21 Eurobalise cable (4 mm ²)	27 MHz
Return loss [db]	35,4
Attenuation [db]	0,017

E Coax with RG 213 cable(2.5 mm ²)	200 MHz	500 MHz	1,0 GHz	1,2 GHz	1,5 GHz	2,0 GHz	2,5 GHz
Return loss [db]	23,8	21,1	>18,7	>17,7	>16,4	>14,1	>12,0
Attenuation [db]	0,07	0,11	0,17	0,2	<0,23	<0,53	<2,0

Coax Electromagnetic screening module

Assembly instructions see P10-63.



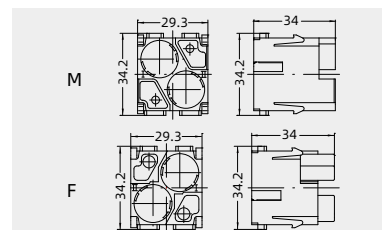
Combination with hinged frame and other modules possible.

Crimp terminal



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	H2M-002-M	129 002 001 0001
Female	H2M-002-F	129 002 002 0001

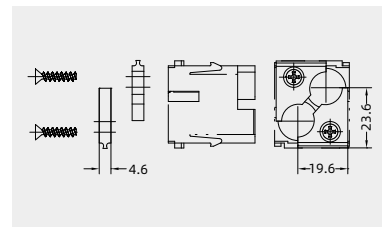


Q-Coax metal adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT-H2MQ	198 002 007 0006

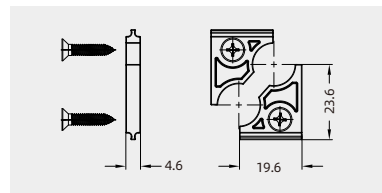


Q-Coax plastic adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT.P-H2MQ	198 002 007 0032

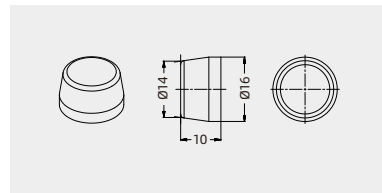


Rubber stopper



Remark: SPQ is 1pc

Description	Designation	Order No.
	φ16*10	198 002 099 0035



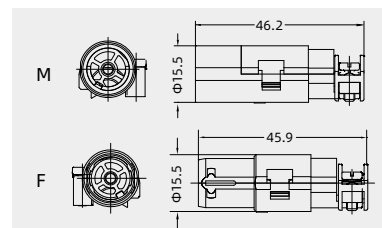
D Coax 1 + shielding

Impedance 75Ω
Crimp contacts 10A
Order crimp contacts separately
Cable diameter 3mm-9.5mm



Remark: SPQ is 10pcs

Description	Designation	Order No.
Male	EMC-001-MC	129 001 010 0082
Female	EMC-001-FC	129 001 020 0082



Crimp contacts

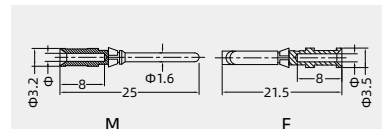
Crimp contacts 10A

Contact resistance ≤ 3mΩ
gold plated



Remark: SPQ is 100pcs

Wire gauge	Male	Order No.	Female	Order No.
0.09-0.25	CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
0.14-0.37	CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
0.5	CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
0.75	CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
1	CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
1.5	CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
2.5	CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001



Detail please find the crimp contacts series

When the wire gauge is less than 0.75mm², it's better to use the auxiliary pin assembly tool TL15.

More 10A crimp contacts see P13-02, P13-03.

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

*Please find the details of crimp contact tools on page 32-02~32-05.

Coax Electromagnetic screening module

Assembly instructions see P10-63.



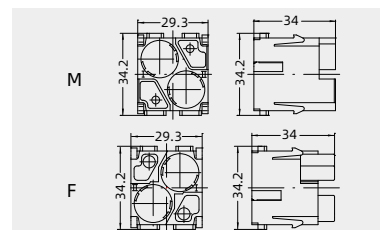
Combination with hinged frame and other modules possible.

Crimp terminal



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	H2M-002-M	129 002 001 0001
Female	H2M-002-F	129 002 002 0001

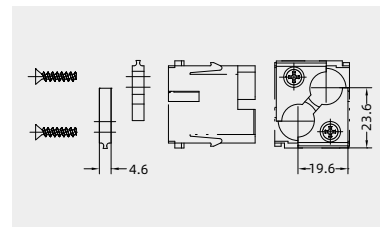


Q-Coax metal adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT-H2MQ	198 002 007 0006

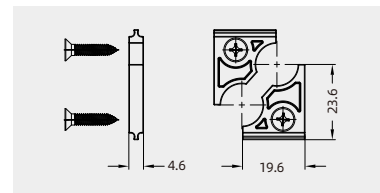


Q-Coax plastic adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT.P-H2MQ	198 002 007 0032

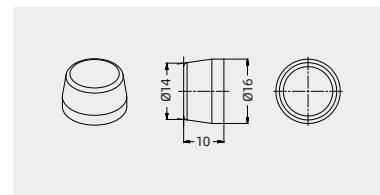


Rubber stopper



Remark: SPQ is 1pc

Description	Designation	Order No.
	φ16*10	198 002 099 0035



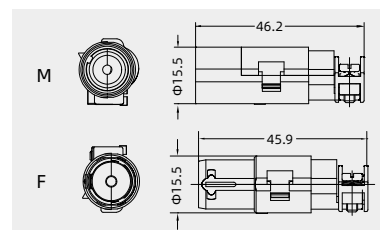
E Coax 1 + shielding

Impedance 50Ω
Crimp contacts 16A
Order crimp contacts separately
Cable diameter 3mm-9.5mm



Remark: SPQ is 100pcs

Description	Designation	Order No.
Male	EMC-001-MC/E	129 001 010 0083
Female	EMC-001-FC/E	129 001 020 0083



Crimp contacts

Crimp contacts 16A

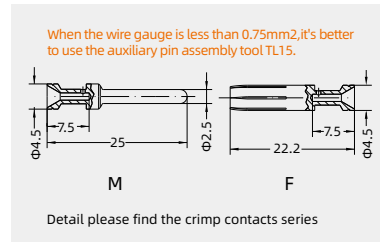
Contact resistance ≤ 1mΩ
gold plated



Remark: SPQ is 100pcs

Wire gauge	Male	Order No.	Female	Order No.
0.14-0.37	CEGM-0.37	101 019 210 0301	CEGF-0.37	101 019 220 0301
0.5	CEGM-0.50	101 019 210 0401	CEGF-0.50	101 019 220 0401
0.75	CEGM-0.75	101 019 210 0601	CEGF-0.75	101 019 220 0601
1	CEGM-1.0	101 019 210 0801	CEGF-1.0	101 019 220 0801
1.5	CEGM-1.5	101 019 210 0901	CEGF-1.5	101 019 220 0901
2.5	CEGM-2.5	101 019 210 1001	CEGF-2.5	101 019 220 1001
3	CEGM-3.0	101 019 210 1101	CEGF-3.0	101 019 220 1101
4	CEGM-4.0	101 019 210 1201	CEGF-4.0	101 019 220 1201

More 16A crimp contacts see P13-04.



Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

*Please find the details of crimp contact tools on page 32-02~32-05.

Coax Electromagnetic screening module

Assembly instructions see P10-63.

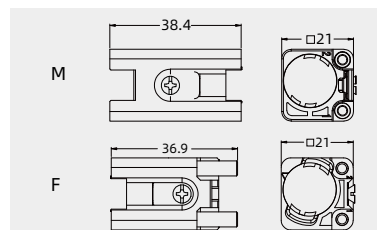
Remark: SPQ is 10pcs

Hoods/Housings: size 3A(top entry) with sealing, please find the details on page 10-64~10-70.

Crimp terminal



Insert	Designation	Order No.
Male	H3A-001-M	121 001 001 0001
Female	H3A-001-F	121 001 002 0001

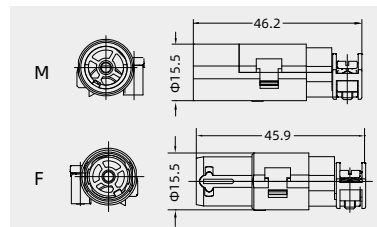


D Coax 1 + shielding

Impedance 75Ω
Crimp contacts 10A
Order crimp contacts separately
Cable diameter 3mm-9.5mm



Description	Designation	Order No.
Male	EMC-001-MC	129 001 010 0082
Female	EMC-001-FC	129 001 020 0082

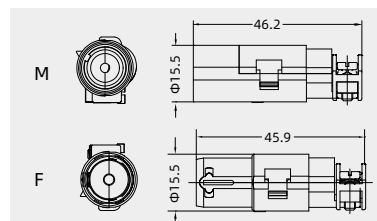


E Coax 1 + shielding

Impedance 50Ω
Crimp contacts 16A
Order crimp contacts separately
Cable diameter 3mm-9.5mm



Description	Designation	Order No.
Male	EMC-001-MC/E	129 001 010 0083
Female	EMC-001-FC/E	129 001 020 0083



Crimp contacts

Crimp contacts 10A

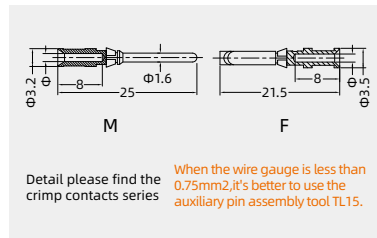
Contact resistance ≤ 3mΩ
gold plated



More 10A crimp contacts
see P13-02, P13-03.

Remark: SPQ is 100pcs

Wire gauge	Male	Order No.	Female	Order No.
0.09-0.25	CDGM-0.25	101 017 210 0101	CDGF-0.25	101 017 220 0101
0.14-0.37	CDGM-0.37	101 017 210 0301	CDGF-0.37	101 017 220 0301
0.5	CDGM-0.50	101 017 210 0401	CDGF-0.50	101 017 220 0401
0.75	CDGM-0.75	101 017 210 0601	CDGF-0.75	101 017 220 0601
1	CDGM-1.0	101 017 210 0801	CDGF-1.0	101 017 220 0801
1.5	CDGM-1.5	101 017 210 0901	CDGF-1.5	101 017 220 0901
2.5	CDGM-2.5	101 017 210 1001	CDGF-2.5	101 017 220 1001



Crimp contacts 16A

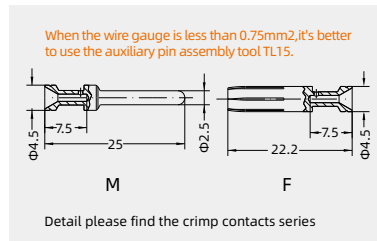
Contact resistance ≤ 1mΩ
gold plated



More 16A crimp contacts see P13-04.

Remark: SPQ is 100pcs

Wire gauge	Male	Order No.	Female	Order No.
0.14-0.37	CEGM-0.37	101 019 210 0301	CEGF-0.37	101 019 220 0301
0.5	CEGM-0.50	101 019 210 0401	CEGF-0.50	101 019 220 0401
0.75	CEGM-0.75	101 019 210 0601	CEGF-0.75	101 019 220 0601
1	CEGM-1.0	101 019 210 0801	CEGF-1.0	101 019 220 0801
1.5	CEGM-1.5	101 019 210 0901	CEGF-1.5	101 019 220 0901
2.5	CEGM-2.5	101 019 210 1001	CEGF-2.5	101 019 220 1001
3	CEGM-3.0	101 019 210 1101	CEGF-3.0	101 019 220 1101
4	CEGM-4.0	101 019 210 1201	CEGF-4.0	101 019 220 1201



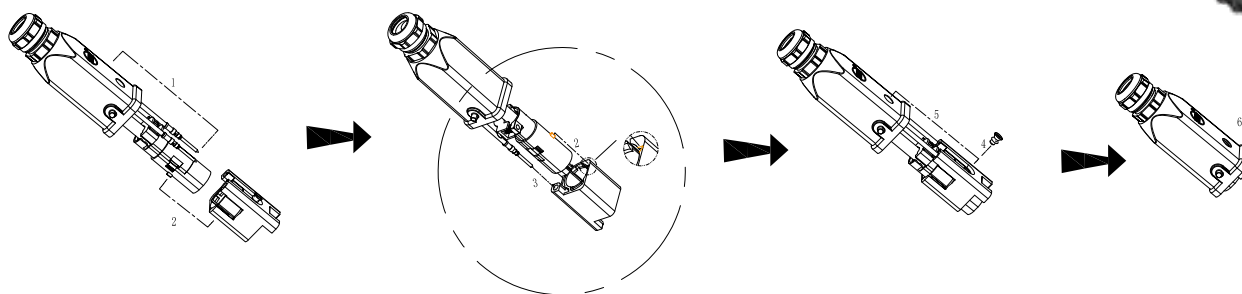
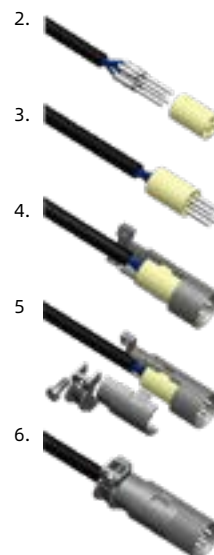
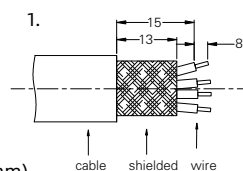
Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

*Please find the details of crimp contact tools on page 32-02~32-05.

Assembly instructions

Q-Coax inserts

1. Strip cable acc. to drawing 1 and fold the shielding over the cable.
2. Crimp Dcontacts onto the wires.
3. Insert D contacts into corresponding cavities of insulator until they are snapped in.
4. Fit the insert including the cable into the opened shielded bushing.
The coding pin of the shielded bushing has to meet the groove of the insulator.
5. Clamp the tilt over the shielding onto the cable by means of the special clamp (small opening for cable diameter of 3 - 6 mm, large opening for cable diameter of 6 - 9.5 mm).
6. Check the wiring.
7. Close the shielded bushing with the cover and insert it into the corresponding cavity of the Quintax Module as usual.



Installation instruction of H3A-001-M/F

Step 1: cable conductor will pass through H3A housing and Coax mortise (assembly type shown in the above figure) and 2pin D-type cold pressing pin will be installed. Refer to figure 1.

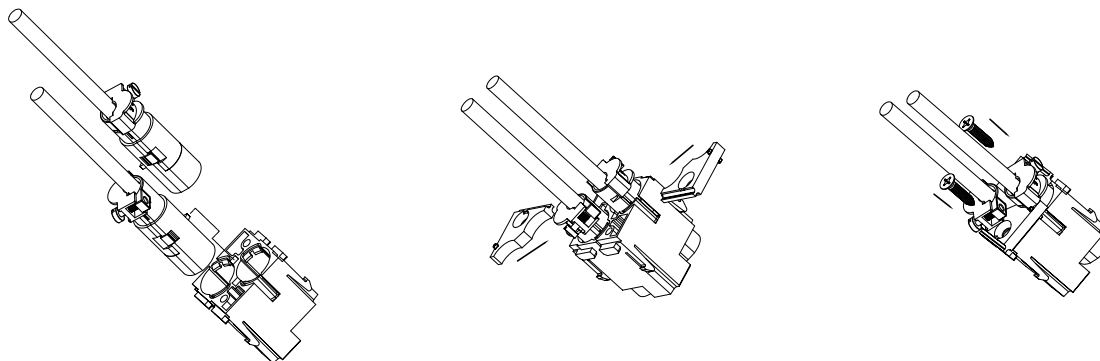
Step 2: "triangulation positioning key" on the housing of Coax mortise is directed at "triangulation positioning slot" on the H3A-001-M/F plug for installation, which is shown in the figure 2. In addition, assembly is completed if "click" is heard. Namely, step surface of Coax has been stuck by the card hook.

Step 3: 2 pin D-type pin will be installed in H3A-001-M/F mortise as per sequence of hole site.

Step 4: grounding screw of H3A-001-M/F will be removed.

Step 5: In addition, H3A-001-M/F mortise will be installed in H3A housing, aiming at grounding hole.

Step 6: At last, grounding screw will be locked and installation is completed.



Installation instruction of H2M-002-M/F

Step 1: slug of Coax that has been installed will be installed in the plug of H2M-002-M/F. "triangulation positioning key" on the housing of Coax mortise must be directed at the "positioning slot" on the plug of H2M-002-M/F in the installation process. In addition, assembly is completed if "click" is heard. Namely, step surface of Coax has been stuck by the card hook.

Step 2: a pair of APT-H2MQ adapter will be horizontally installed at the fixed step surface of H2M-002-M/F and Coax slug as per the arrow direction. Refer to the figure 2.

Step 3: the adapter will be fixed with the screw lock, which means that H2M-002-M/F module has been installed.

HMC-004 Coaxial module

50V 1.5A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664
	DIN EN 61 984

Inserts

Number of contacts	4
Electrical dataacc. to EN 61 984	
-Rated current	1.5A
-Rated voltage	50V
-Contact resistance	$\leq 10\text{m}\Omega$
-Impedance	$50\Omega, 75\Omega$
-Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	$-40^{\circ}\text{C} \dots +125^{\circ}\text{C}$
Flammability acc. to UL 94	V0
Mechanical working life	≥ 500
- mating cycle	≥ 500



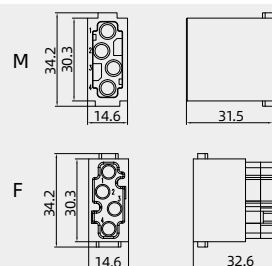
Remark: SPQ is 10pcs

Coaxial Module

Order Coaxial contacts separately



Insert	Designation	Order No.
Male	HMC-004-MC	129 004 010 0505
Female	HMC-004-FC	129 004 020 0505



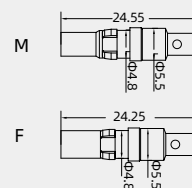
Coaxial contacts

Contact resistance $\leq 10\text{m}\Omega$
 Impedance 50ohm
 Gold plated



Remark: SPQ is 50pcs

Male	Order No.	Female	Order No.
SCGM50-5.5	101 110 210 0002	SCGF50-5.5	101 110 220 0002



Tools



Crimping pliers



Contact removal tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
	TL31	198 001 001 0041

Application	Designation	Order No.
Coaxial Module	TL29	198 001 000 0041
H2MC-012		
HMC-004		

H2MC-012 Coaxial module

50V 1.5A

Inserts



Combination with hinged frame and other modules possible.

Technical characteristics

Specifications	DIN EN 60 664
	DIN EN 61 984

Inserts

Number of contacts	12
Electrical data acc. to EN 61 984	
- Rated current	1.5A
- Rated voltage	50V
- Contact resistance	$\leq 10\text{m}\Omega$
- Impedance	50 Ω , 75 Ω
- Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to UL 94	V0
Mechanical working life	≥ 500
- mating cycle	≥ 500

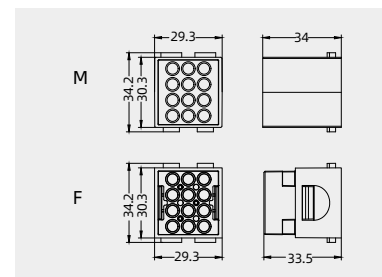
Coaxial Module

Order Coaxial contacts separately



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	H2MC-012-MC	129 012 010 0503
Female	H2MC-012-FC	129 012 020 0503



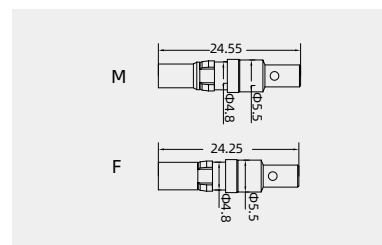
Coaxial contacts

Contact resistance $\leq 10\text{m}\Omega$
 Impedance 50 Ω
 Gold plated



Remark: SPQ is 50pcs

Male	Order No.	Female	Order No.
SCGM50-5.5	101 110 210 0002	SCGF50-5.5	101 110 220 0002



HM

Tools



Crimping pliers



Contact removal tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
	TL31	198 001 001 0041

Application	Designation	Order No.
Coaxial Module	TL29	198 001 000 0041
H2MC-012		
HMC-004		

3A Plastic hoods/housings

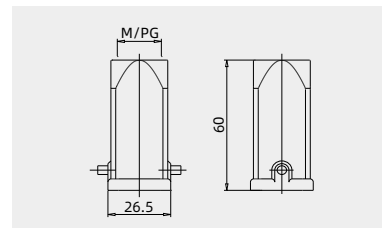
With sealing

Degree of protection: IP65 Remark: SPQ is 1pc

Hoods, top entry



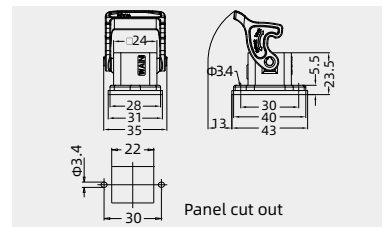
Thread	Designation	Order No.
M20	H3A.P-TE/S-2B-M20	118 003 410 1102
PG11	H3A.P-TE/S-2B-PG11	118 003 410 1108



Bulkhead mounted housings



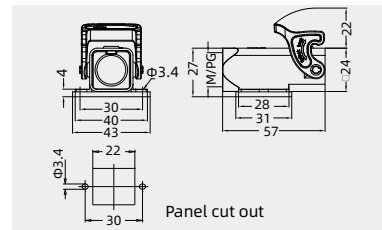
Thread	Designation	Order No.
---	H3A.P-BK-1L	118 003 327 1001



Surface mounted housings



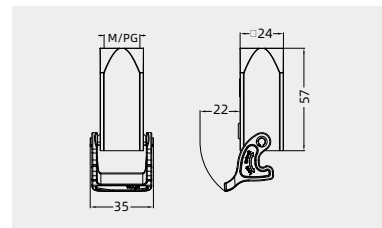
Thread	Designation	Order No.
M20	H3A.P-SF-1L-M20	118 003 227 1002
PG11	H3A.P-SF-1L-PG11	118 003 227 1008



Housings, cable to cable



Thread	Designation	Order No.
M20	H3A.P-CCT-1L-M20	118 003 727 1002
PG11	H3A.P-CCT-1L-PG11	118 003 727 1008



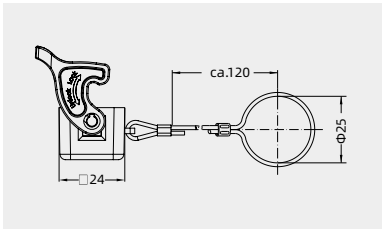
3A Plastic hoods/housings

With sealing
Degree of protection: IP65 Remark: SPQ is 1pc

Protection covers



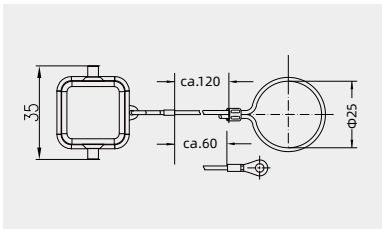
Connect way	Designation	Order No.
	H3A-CV-1L/1M (for male insert)	110 003 027 8001
	H3A-CV-1L/1F(for female insert)	110 003 027 8002



Protection covers



Connect way	Designation	Order No.
	H3A-CV/S-2B/1	110 003 010 8003
	H3A-CV/S-2B/2	110 003 010 8006



3A Metal hoods/housings

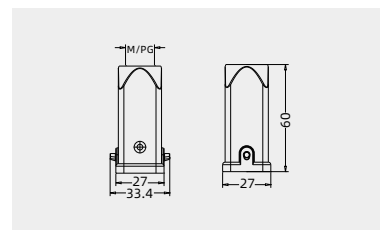
With sealing

Degree of protection: IP65 Remark: SPQ is 1pc

Hoods, top entry



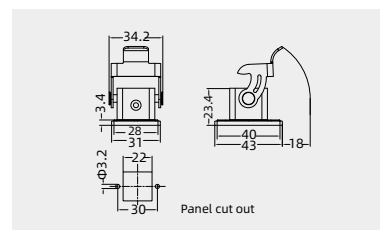
Thread	Designation	Order No.
M20	H3A-TE/S-2B-M20	110 003 410 1102
PG11	H3A-TE/S-2B-PG11	110 003 410 1108



Bulkhead mounted housings



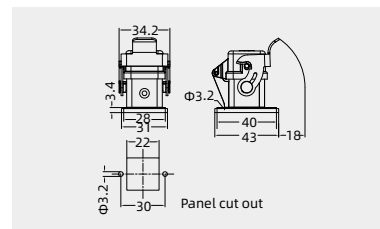
Thread	Designation	Order No.
---	H3A-BK-1L/W	110 003 324 1001



Bulkhead mounted housings



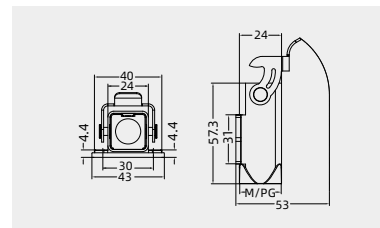
Thread	Designation	Order No.
---	H3A-BK-1L/W-MCV/S	110 003 364 1103



Surface mounted housings



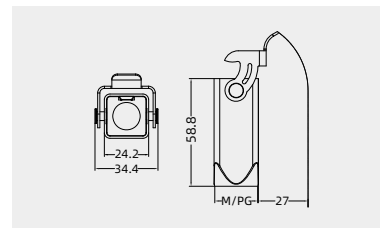
Thread	Designation	Order No.
M20	H3A-SF-1L/W-M20	110 003 224 1002
PG11	H3A-SF-1L/W-PG11	110 003 224 1008



Housings, cable to cable



Thread	Designation	Order No.
M20	H3A-CCT-1L/W-M20	110 003 724 1002
PG11	H3A-CCT-1L/W-PG11	110 003 724 1008



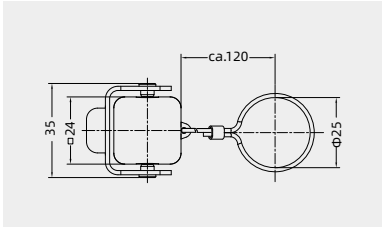
3A Metal hoods/housings

With sealing
 Degree of protection: IP65 Remark: SPQ is 1pc

Protection covers



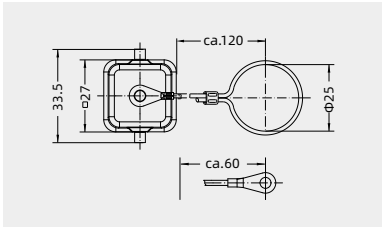
Connect way	Designation	Order No.
	H3A-MCV-1L/1M (for male insert)	110 003 024 8101
	H3A-MCV-1L/1F (for female insert)	110 003 024 8102



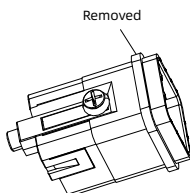
Protection covers



Connect way	Designation	Order No.
	H3A-MCV/S-2B/1	110 003 010 8103
	H3A-MCV/S-2B/2	110 003 010 8106



Epoxy power paint
Degree of protection: IP68



Note: Before installation, if there is a square seal ring on the used insert, the seal ring shall be removed before installation. For more details, please contact us.

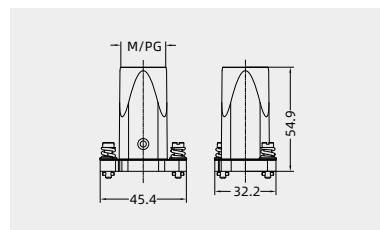
Remark: SPQ is 1 pc

H version

Hoods, top entry



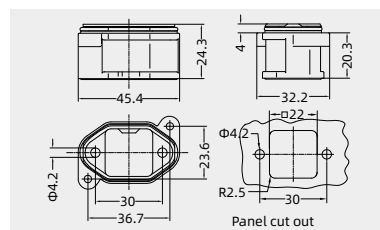
Thread	Designation	Order No.
	Epoxy power paint · Screw locking	
M20	HP3A/H-TE-2S-M20	113 003 420 1002
PG13.5	HP3A/H-TE-2S-PG13.5	113 003 420 1009
	Epoxy power paint · Toggle locking	
M20	HP3A/H-TE-2T-M20	113 003 440 1002
PG13.5	HP3A/H-TE-2T-PG13.5	113 003 440 1009



Bulkhead mounted housings



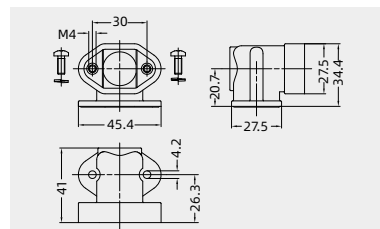
Thread	Designation	Order No.
	Epoxy power paint · Screw locking	
---	HP3A/H-BK-2H	113 003 320 1001
	Epoxy power paint · Toggle locking	
---	HP3A/H-BK-2T	113 003 340 1001



Adaptor for Housings*



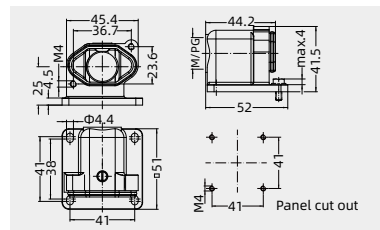
Thread	Designation	Order No.
	Epoxy power paint	
---	HP3A/H-BK-SE	113 003 900 1001



Surface mounted housings



Thread	Designation	Order No.
M20	Epoxy power paint · Screw locking HP3A/H-SF-2H-M20	113 003 220 1002
PG13.5	HP3A/H-SF-2H-PG13.5	113 003 220 1009



Bulkhead mounted housings



Thread	Designation	Order No.
---	Epoxy power paint · Screw locking HP3A/H-SF-2H	113 003 220 1001

