

Rectangular connector-Accessories

	Page
PCB-adapter	P14-02~P14-11
Rail bracket	P14-12~P14-13
Ground terminal/Docking frame	P14-14~P14-16
Code pin	P14-17~14-18
Cable clamp	P14-19

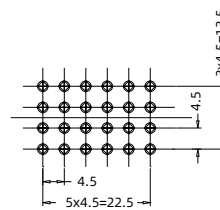
HDD inserts with PCB-adapter



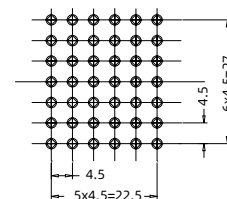
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
inserts	
Number of contacts	24,42,72,108
Electrical data acc. to EN 61 984	
-Rated current	7.5A
-Rated voltage	250V
-Rated impulse voltage	4kV
-Pollution degree	3
Rated voltage acc. to UL	250V
Testing voltage Ueff	2kV
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

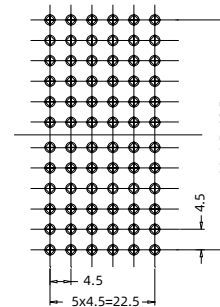
Layout of PCB



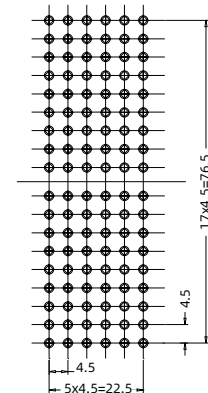
H24DD



H42DD



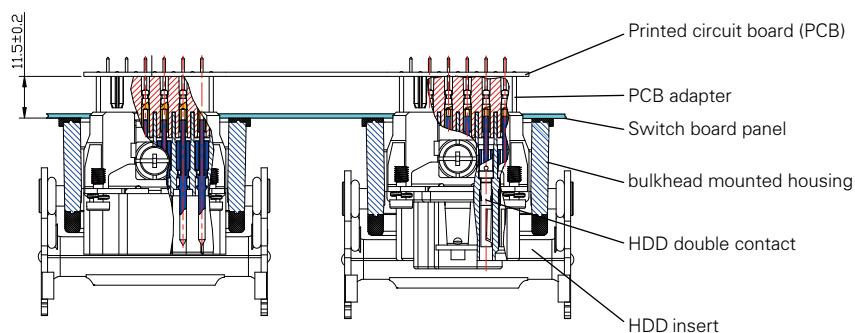
H72DD



H108DD

HDD inserts with PCB-adapter

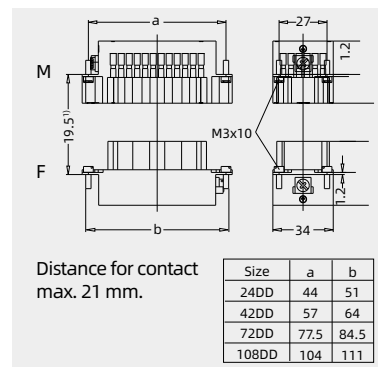
Assembly situation



HDD insert



Insert	Size	Designation	Order No.
Male	H6B	HDD-024-MC	126 024 010 0001
	H10B	HDD-042-MC	126 042 010 0001
	H16B	HDD-072-MC	126 072 010 0001
	H24B	HDD-108-MC	126 108 010 0001
Female	H6B	HDD-024-FC	126 024 020 0001
	H10B	HDD-042-FC	126 042 020 0001
	H16B	HDD-072-FC	126 072 020 0001
	H24B	HDD-108-FC	126 108 020 0001

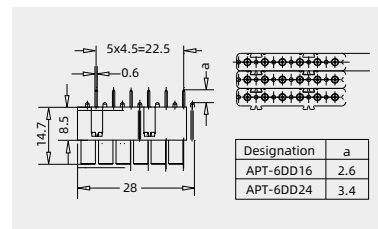


PCB adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
for PCBs up to 1.6mm	APT-6DD16	198 002 007 0002
for PCBs up to 2.4mm	APT-6DD24	198 002 007 0004

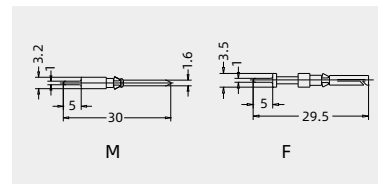


HDD double contact



Remark: SPQ is 100pcs

Contact	Designation	Order No.
Male	CDSM-P1.0	101 017 114 0001
Female	CDSF-P1.0	101 017 124 0001



Hoods/Housings

Hoods: further information see chapter DD

Bulkhead mounted housings: further information see chapter DD

HEC inserts

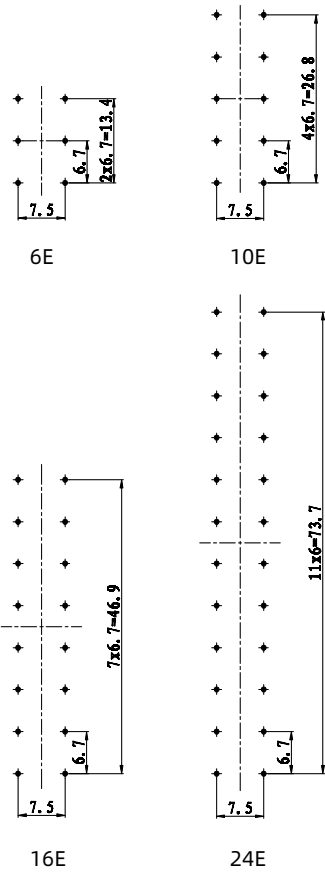
HEC inserts with PCB-adapter



Technical characteristics

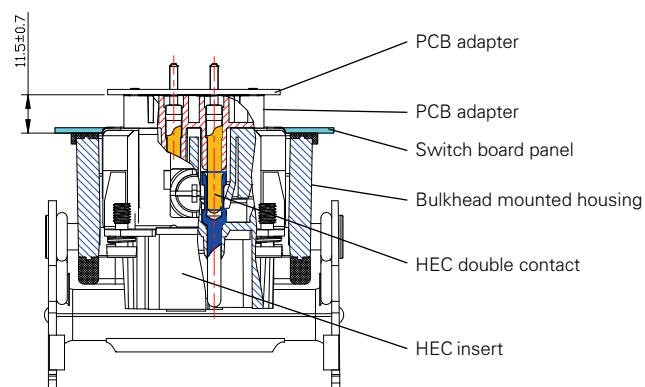
Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
inserts	
Number of contacts	6,10,16,24
Electrical data acc. to EN 61 984	
-Rated current	16A
-Rated voltage	500V
-Rated impulse voltage	6kV
-Pollution degree	3
Insulation resistance	$\geq 10^{10}\Omega$
Material	polycarbonate
Limiting temperatures	-40°C ...+125°C
Flammability acc. to UL 94	V0
Mechanical working life(mating cycles)	≥ 500

Layout of PCB



HEC inserts with PCB-adapter

Assembly situation

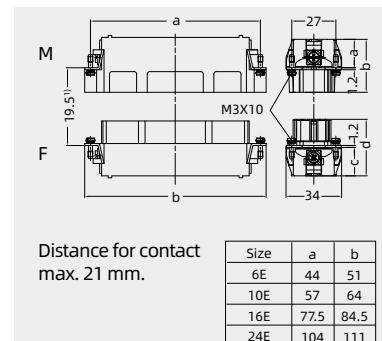


HEC insert



Remark: SPQ is 5pcs

Insert	Size	Designation	Order No.
Male	6B	HE-006-MC	122 006 010 0001
	10B	HE-010-MC	122 010 010 0001
	16B	HE-016-MC	122 016 010 0001
	24B	HE-024-MC	122 024 010 0001
Female	6B	HE-006-FC	122 006 020 0001
	10B	HE-010-FC	122 010 020 0001
	16B	HE-016-FC	122 016 020 0001
	24B	HE-024-FC	122 024 020 0001

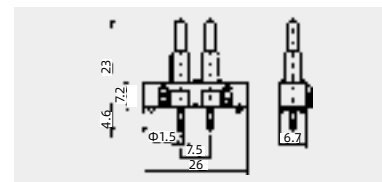


PCB adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT-2E16	198 002 007 0001

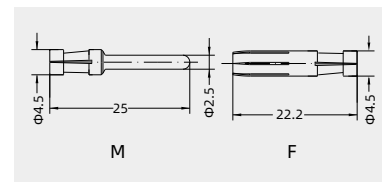


HEC double contact



Remark: SPQ is 100pcs

Contact	Designation	Order No.
Male	CESM-2.5P	101 019 114 0051
Female	CESF-2.5P	101 019 124 0051



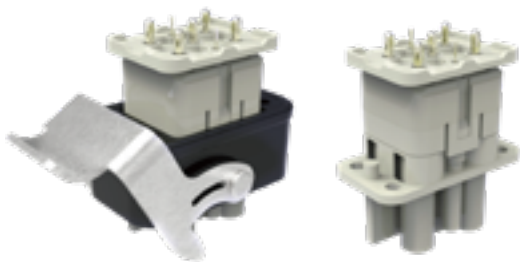
Hoods/Housings

Hoods: further information see chapter HE

Bulkhead mounted housings: further information see chapter HE

HQ-004/2 inserts

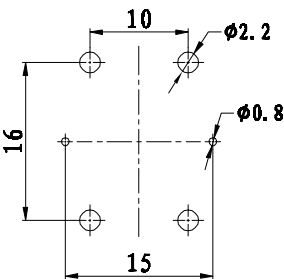
HQ-004/2 inserts with PCB-adapter



Technical characteristics

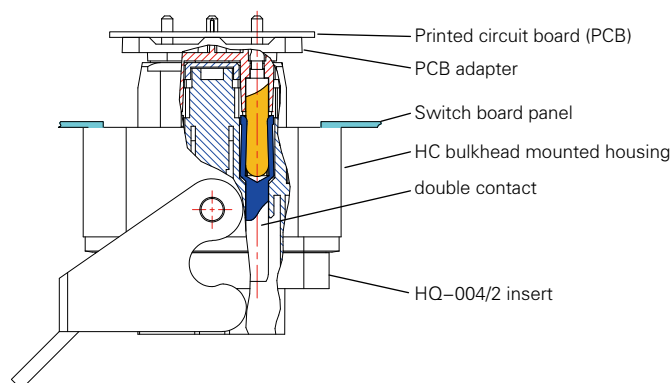
Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	   
inserts	
Number of contacts	4/2
Electrical data acc. to EN 61 984	
Power area	
-Rated current	30A
-Rated voltage conductor - ground	400V
-Rated voltage conductor - conductor	690V
-Rated impulse voltage	6kV
-Pollution degree	2
Signal area	
-Rated current	7.5A
-Rated voltage	250V
-Rated impulse voltage	4kV
-Pollution degree	2
Insulation resistance	$\geq 10^{10}\Omega$
Material	LCP
Limiting temperatures	-40°C ...+125°C
Flammability acc. to UL 94	V0

Layout of PCB



HQC inserts with PCB-adapter

Assembly situation

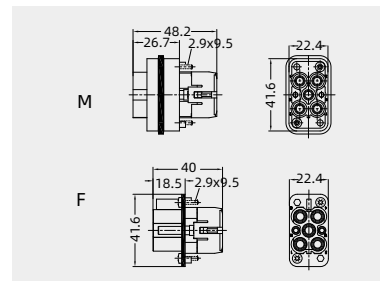


HQ insert



Remark: SPQ is 5pcs

Insert	Designation	Order No.
Male	HQ-004/2-MC	130 006 010 0001
Female	HQ-004/2-FC	130 006 020 0001

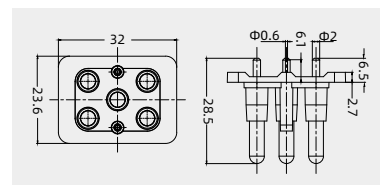


PCB adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT-Q4/2	198 002 007 0009

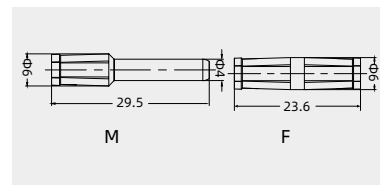


C double contact, to connect the PCP-Adapter, Power contacts



Remark: SPQ is 50pcs

Contact	Designation	Order No.
Male	CCSM-4.0P	101 023 114 1251
Female	CCSF-4.0P	101 023 124 1251

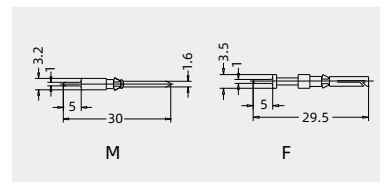


D double contact, Signal contacts



Remark: SPQ is 100pcs

Contact	Designation	Order No.
Male	CDSM-P1.0	101 017 114 0001
Female	CDSF-P1.0Q	101 017 124 0052

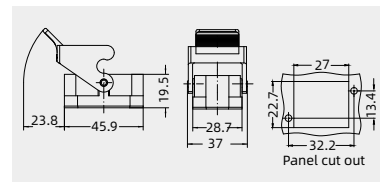


HC bulkhead mounted housings



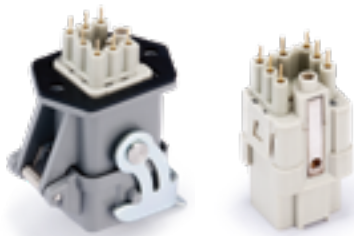
Remark: SPQ is 1pc

Thread	Designation	Order No.
---	HC.P-BK-1L	130 008 327 1001



HQ-007/0 inserts

HQ-007/0 inserts with PCB-adapter

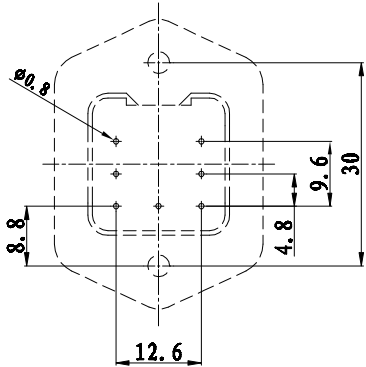


Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
inserts	
Number of contacts	7
Electrical data acc. to EN 61 984	
-Rated current	7.5A
-Rated voltage	250V
-Rated impulse voltage	4kV
-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

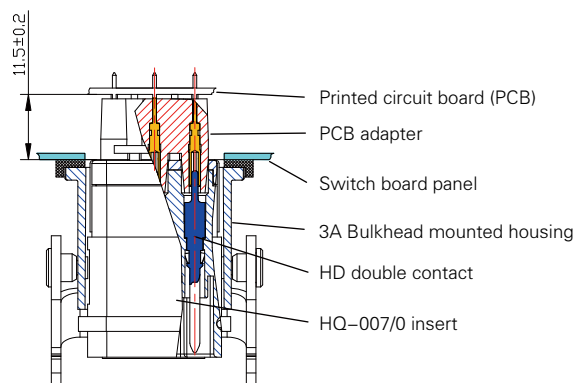
Layout of PCB

recommended hole diameter: 0.8 mm



HQ-007/0 inserts with PCB-adapter

Assembly situation

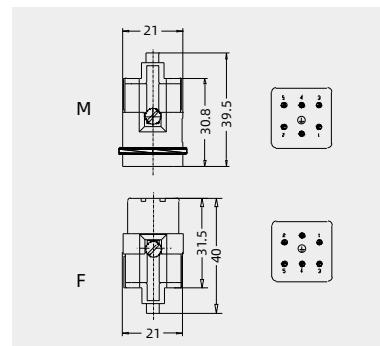


HQ-007/0 insert



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HQ-007/0-MC	130 007 010 0001
Female	HQ-007/0-FC	130 007 020 0001

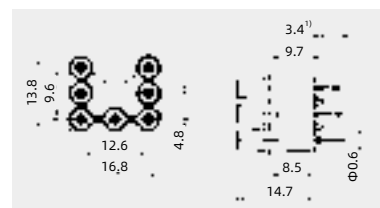


PCB adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
for PCBs up to 2.4mm	APT-Q7	198 002 007 0010

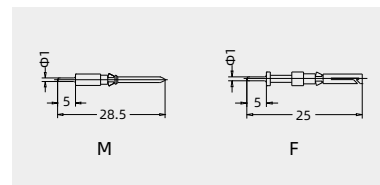


HD double contact



Remark: SPQ is 100pcs

Contact	Designation	Order No.
Male	CDSM-P1.0S	101 017 114 0002
Female	CDSF-P1.0S	101 017 124 0002

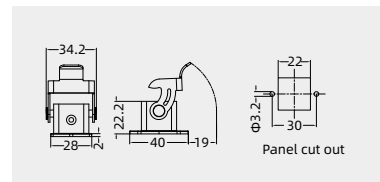


3A Bulkhead mounted housings



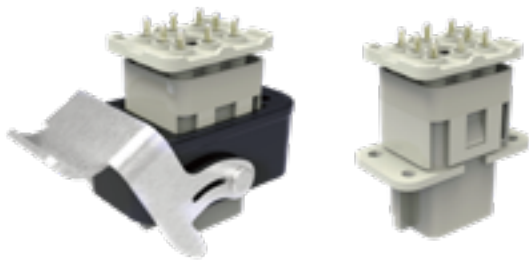
Remark: SPQ is 1pc

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



HQ-008/0 inserts

HQ-008/0 inserts with PCB-adapter



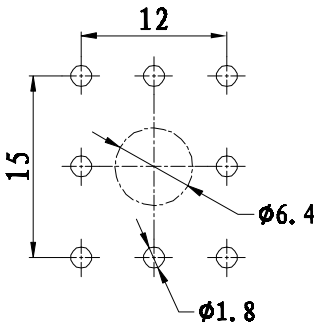
A

Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	   
inserts	
Number of contacts	8/0
Electrical data acc. to EN 61 984	
Rated current	16A
Rated voltage conductor - ground	230V
Rated voltage conductor - conductor	400V
Rated impulse voltage	4kV
Pollution degree	2
Insulation resistance	$\geq 10^{10}\Omega$
Material	LCP
Limiting temperatures	-40°C ...+125°C
Flammability acc. to UL 94	V0

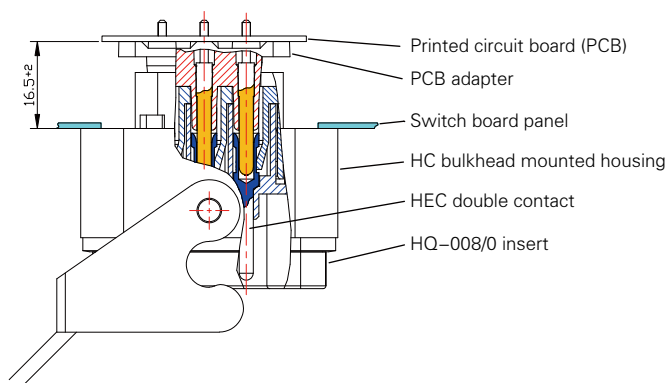
Layout of PCB

dimensions in mm



HQC inserts with PCB-adapter

Assembly situation

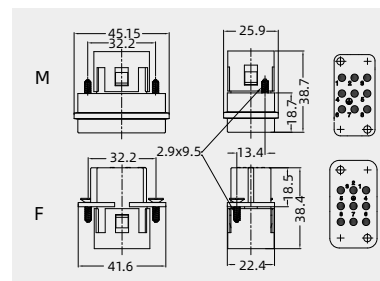


HQ insert



Remark: SPQ is 10pcs

Insert	Designation	Order No.
Male	HQ-008/0-MC	130 008 010 0001
Female	HQ-008/0-FC	130 008 020 0001

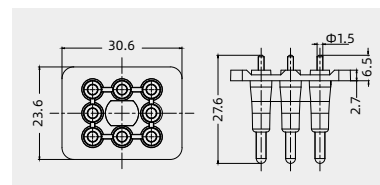


PCB adapter



Remark: SPQ is 1pc

Description	Designation	Order No.
	APT-Q8	198 002 007 0011

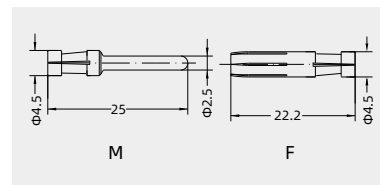


HEC double contact, to connect the PCP-Adapter



Remark: SPQ is 100pcs

Contact	Designation	Order No.
Male	CESM-2.5P	101 019 114 0051
Female	CESF-2.5P	101 019 124 0051

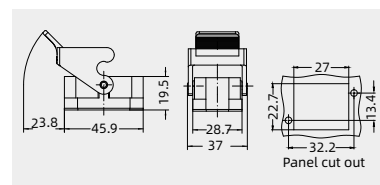


HC Bulkhead mounted housings



Remark: SPQ is 1pc

Thread	Designation	Order No.
---	HC.P-BK-1L	130 008 327 1001



Rail bracket

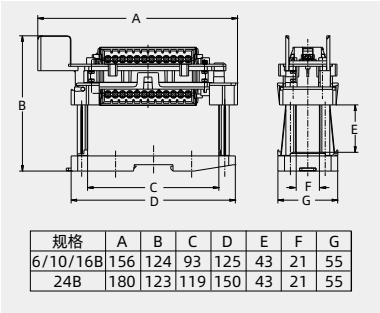
Is used to connect inserts fixed to the commonly used standard lateral rail.

A version



Remark: SPQ is 1pc

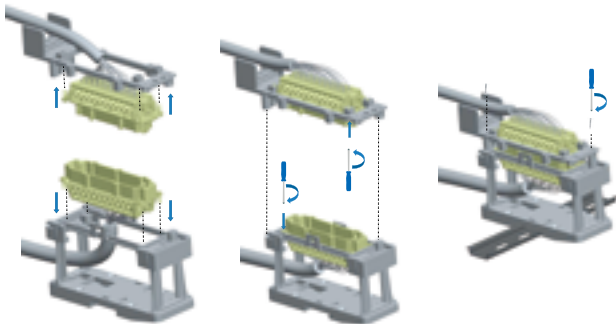
Size	Designation	Order No.
6B	CC6B	198 002 008 0009
10B	CC10B	198 002 008 0010
16B	CC16B	198 002 008 0011
24B	CC24B	198 002 008 0012



A

Assembly instructions

A version



Is used to bulkhead mounted housings fixed to the commonly used standard lateral rail.

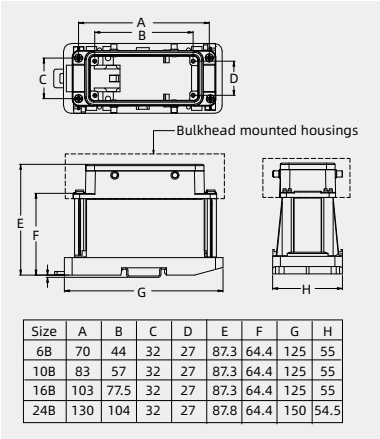
Remark: SPQ is 1pc



Assembly instructions



Size	Designation	Order No.
6B	CC6B-BK	198 002 008 0005
10B	CC10B-BK	198 002 008 0006
16B	CC16B-BK	198 002 008 0007
24B	CC24B-BK	198 002 008 0008



Rail bracket

Is used to connect inserts fixed to the commonly used standard lateral rail. **Adjustable rail bracket**

B version Rail bracket

Latching parts with strain relief



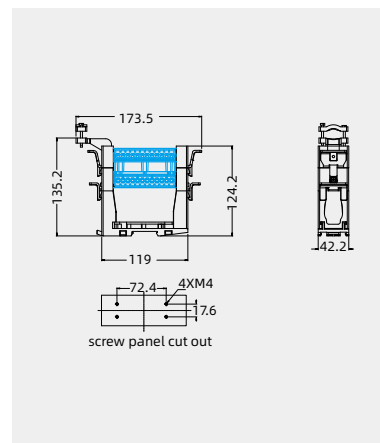
Latching parts



Adjustable movable base



Description	Designation	Order No.
Suitable for all the inserts & module framework which match type B hood & housing	CCAB ¹⁾	198 002 008 0013
1) CCAB is a combined suite including: Latching parts with strain relief, Latching parts, Adjustable movable base		

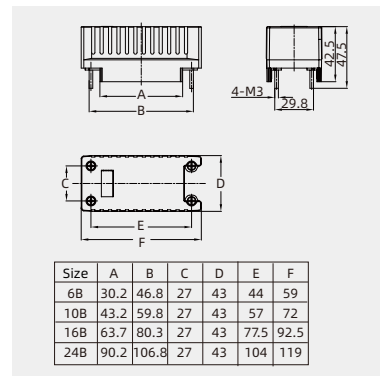


Protecting cover can match CCAB

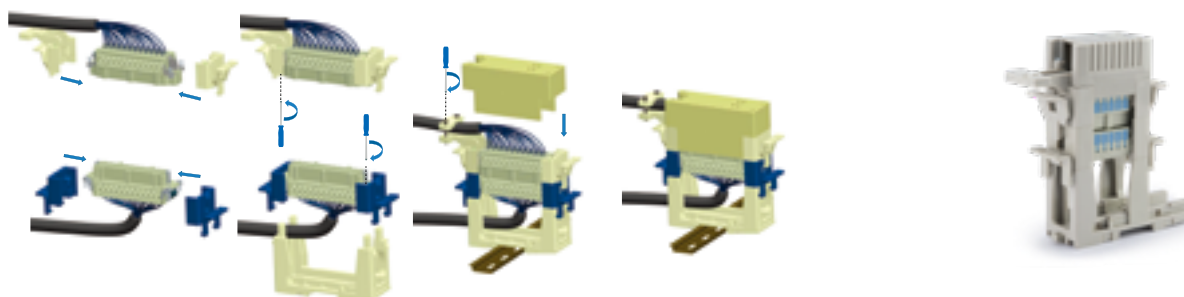


Remark: SPQ is 1pc

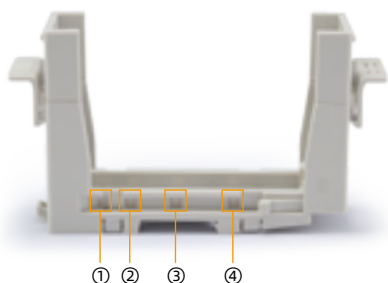
Description	Designation	Order No.
Play the protective role for insert.	CC6B-CV	198 002 008 0001
	CC10B-CV	198 002 008 0002
	CC16B-CV	198 002 008 0003
	CC24B-CV	198 002 008 0004



Assembly instructions



Adjustable movable base



- ①: the insert and 6B version highed frame are matchable with 6B version shells
- ②: the insert and 10B version highed frame are matchable with 10B version shells
- ③: the insert and 16B version highed frame are matchable with 16B version shells
- ④: the insert and 24B version highed frame are matchable with 24B version shells

Ground terminal

Ground terminal-standard(for HE/HEE/HDD inserts in housings and hoods, high construction)

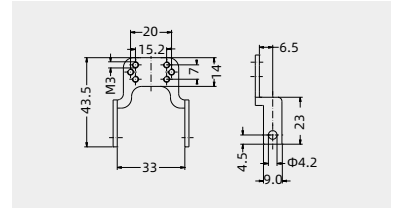
Remark: SPQ is 1pc

See P14-16 for assembly instructions

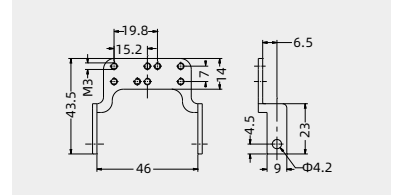
A



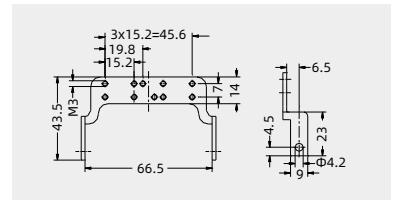
Size	Designation	Order No.
6B	B6B-PE	198 002 003 0001



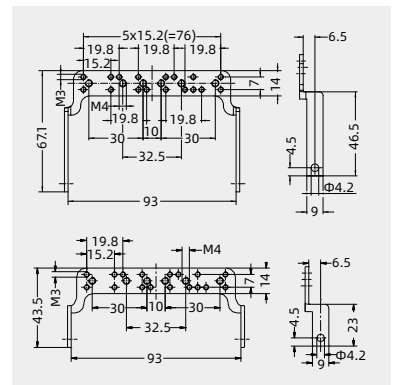
Size	Designation	Order No.
10B	B10B-PE	198 002 003 0002



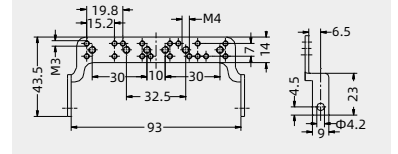
Size	Designation	Order No.
16B	B16B-PE	198 002 003 0003



Size	Designation	Order No.
24B	B24B-PE	198 002 003 0004



Size	Designation	Order No.
24B	B24B-PES	198 002 003 0005



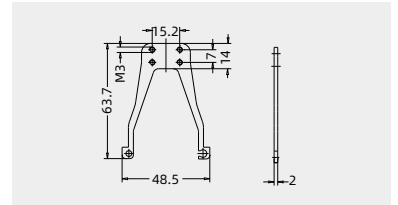
Ground terminal-for hinged frame(for HM frames in bulkhead mounted housings)

See P14-16 for assembly instructions



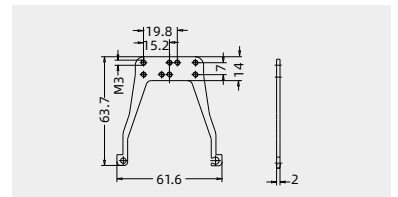
Size	Designation	Order No.
6B	M6B-PE	198 002 003 0008

Not suitable for P10-41~10-44 shielding modules



Size	Designation	Order No.
10B	M10B-PE	198 002 003 0009

Not suitable for P10-41~10-44 shielding modules



Ground terminal/Grip frame/Screw adaptor/Clamps

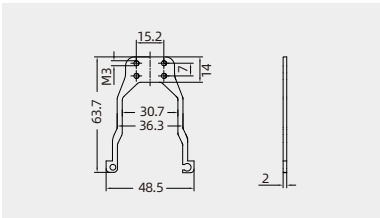
Ground terminal-for hinged(for HM frames in bulkhead mounted housings)

Remark: SPQ is 1pc
See P14-16 for assembly instructions



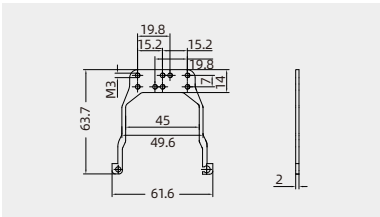
Size	Designation	Order No.
6B	M6B/E-PE	198 002 003 0039

Suitable for P10-41~10-44 shielding modules



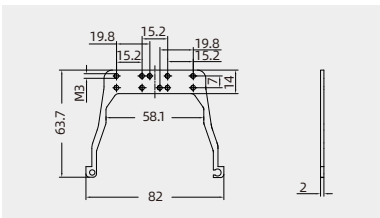
Size	Designation	Order No.
10B	M10B/E-PE	198 002 003 0040

Suitable for P10-41~10-44 shielding modules



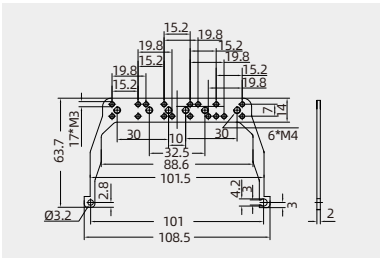
Size	Designation	Order No.
16B	M16B/E-PE	198 002 003 0041

Suitable for P10-41~10-44 shielding modules



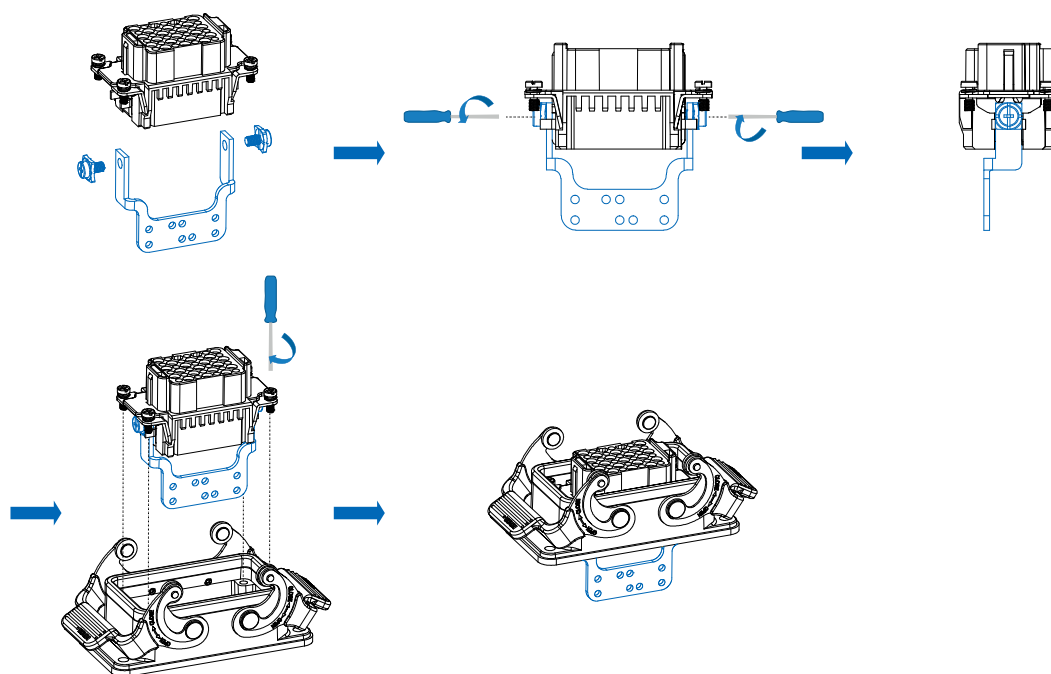
Size	Designation	Order No.
24B	M24B/E-PE	198 002 003 0042

Suitable for P10-41~10-44 shielding modules

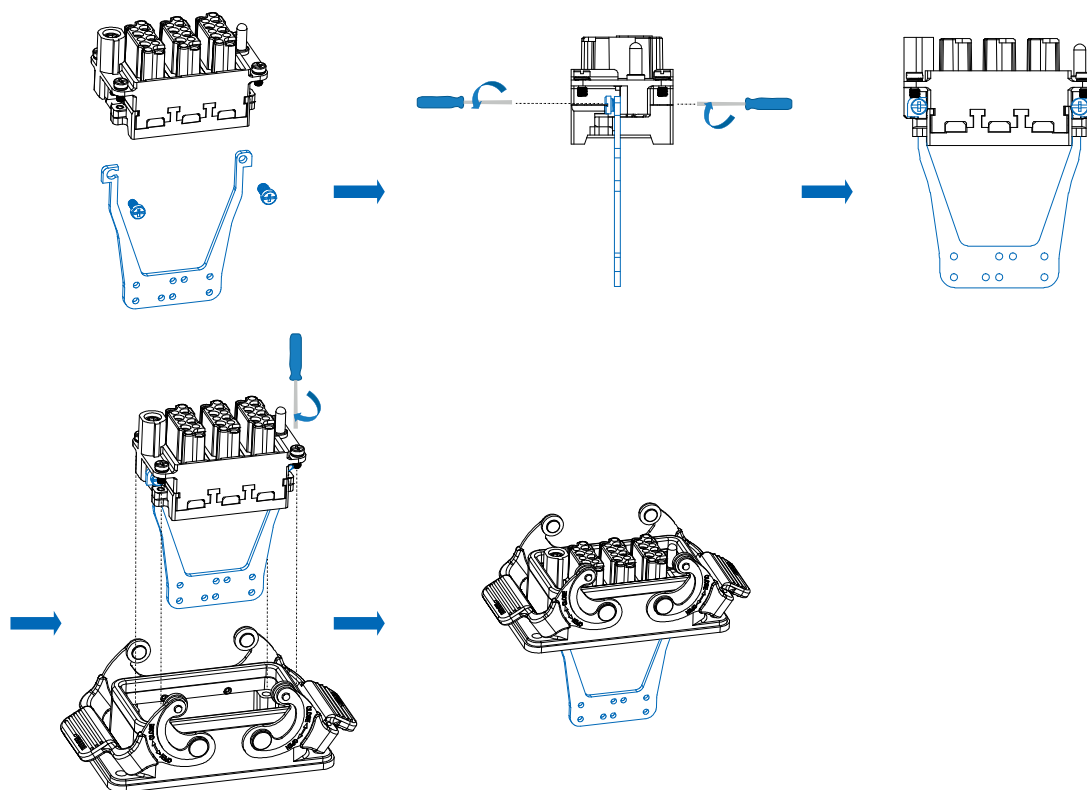


Ground terminal assembly

Ground terminal-standard(for HE/HEE/HDD inserts in housings and hoods, high construction)



Ground terminal-for hinged frame(for HM frames in bulkhead mounted housings)



Accessories

Remark: SPQ is 1pc

Coding system with code pins

Code pin



Designation	Order No.
CODE-M3/S	198 002 005 0006

Modular code pin



Designation	Order No.
MCODE-M3/S	198 002 005 0020

"/S" -stainless steel

Coding system with guide pins/bushes

Guide bush



Designation	Order No.
GBUSH-M3/S	198 002 005 0018

Guide bush with crown spring



Designation	Order No.
GBUSH-M3/S 3CR	198 002 005 0031

Guide pin



Designation	Order No.
GPIN-M3/S	198 002 005 0017

Modular guide bush



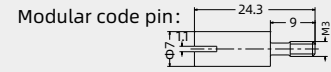
Designation	Order No.
MGBUSH-M3/S	198 002 005 0023

Modular guide pin

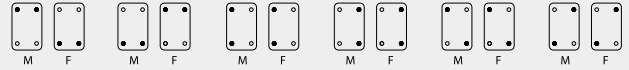


Designation	Order No.
MGPIN-M3/S	198 002 005 0022

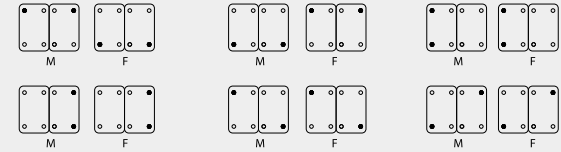
"/S" -stainless steel



for hoods/housings with one insert/one frame

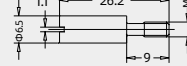


for hoods/housings with two inserts/two frames



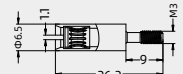
- Code pin
 - Normal mounting screw
- M-Male insert
F-Female insert

Guide bush:

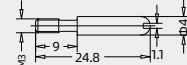


Guide bush

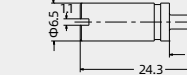
with crown spring:



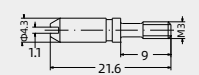
Guide pin:



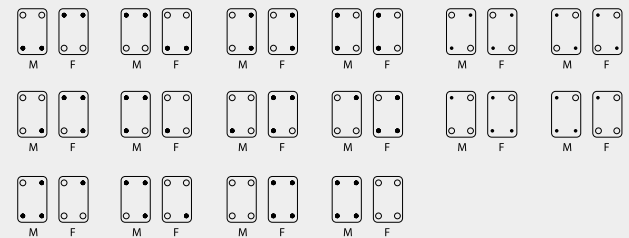
Modular guide bush:



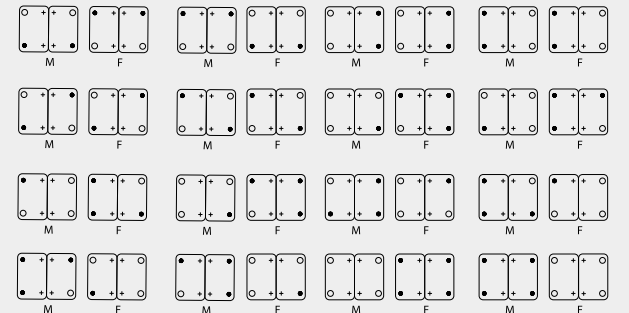
Modular guide pin:



for hoods/housings with one insert/one frame



for hoods/housings with two inserts/two frames



- Guide pin
 - Bush
 - + Normal mounting screw
- M-Male insert
F-Female insert

Accessories

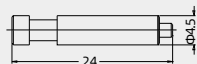
Coding

Code pin



Remark: SPQ is 100pcs

Designation	Order No.
CODE-E	198 002 005 0002



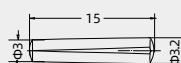
- ① Use of the coding pin prevents incorrect mating to other connectors of the same type.
- ② For HEC, HEE, HQ-005/0, HM-006, HM-008
- ③ The male pin should be omitted from the opposing cavity in the male insert.

Code pin



Remark: SPQ is 100pcs

Designation	Order No.
CODE-D	198 002 005 0001



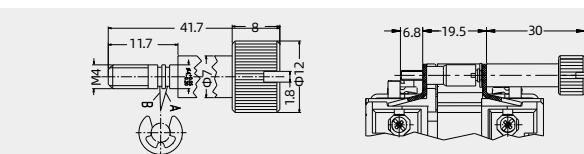
- ① Use of the coding pin prevents incorrect mating to other connectors of the same type.
- ② For HD, HDD, HMD-012, HMDD-017, HQ-7/0, HQ-012/0
- ③ The male pin should be omitted from the opposing cavity in the male insert.

Screw pin



Remark: SPQ is 1pc

Designation	Order No.
GH-M4	904 000 000 0077

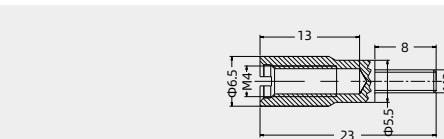


Screw bash



Remark: SPQ is 1pc

Designation	Order No.
GHT-M3	904 000 000 0079



frame

Mounting

for H version housings



Remark: SPQ is 1pc

Size	Designation	Order No.
6B	HP6B-MF	113 006 000 1091
10B	HP10B-MF	113 010 000 1091
16B	HP16B-MF	113 016 000 1091
24B	HP24B-MF	113 024 000 1091

Size	a	b
6B	70	96
10B	83	109
16B	103	129
24B	130	156

Docking frame



Remark: SPQ is 2pcs

Size	Designation	Order No.
6B	H6B-ADK	198 002 004 0001
10B	H10B-ADK	198 002 004 0002
16B	H16B-ADK	198 002 004 0003
24B	H24B-ADK	198 002 004 0005

Technical characteristics

Material

- Docking frame stainless steel
- Fixing screws steel, zinc-plated

Pull-in-range

- x-axis $\pm 1.5\text{mm}$
- y-axis $\pm 1.5\text{mm}$

Mechanical working life

- mating cycles ≥ 500

Range of delivery:

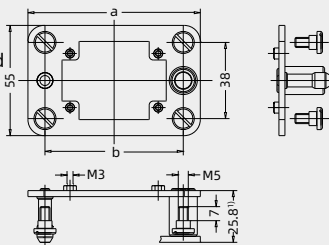
1 frame

4 cheese head shoulder screws to fix mm; for pneumatic contacts max. 26.5 mm

the docking frame

size	a	b	c	d	e
6B	86	69	69	54.5	84
10B	99	82	82	67.5	97
16B	119.5	102.5	102.5	88	117.5
24B	146	129	129	114.5	144

Assembly cut out



Accessories

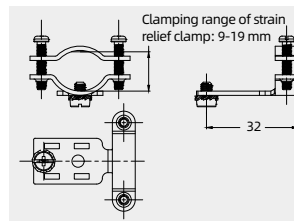
Cable clamp fitting

Remark: SPQ is 1pc

Straight cable clamp fitting



Designation	Order No.
CCF-T	198 002 003 0021

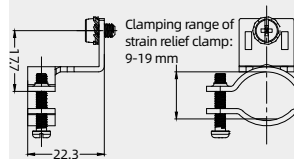


When using inserts without hoods or housings, a cable clamp is needed. The cable clamp is suitable for the following inserts: HDD, HE, HSB, HVE, HVES, HEE series, as well as HK-008/24, HD-040, HD-064 and the opposite end to the PE-termination.

Angled cable clamp fitting



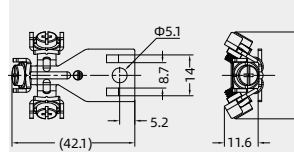
Designation	Order No.
CCF-S	198 002 003 0020



When using inserts without hoods or housings, a cable clamp is needed. The cable clamp is suitable for the following inserts: HDD, HE, HSB, HVE, HVES, HEE series, as well as HK-008/24, HD-040, HD-064 and the opposite end to the PE-termination.

Nickel plated multi-grounding
number of grounding contacts 3

Designation	Order No.
PE-MGC	198 002 006 0015



- Number of grounding contacts 3
- Material: copper alloy
- Surface: Nickel plating

Assembly requirements:
It is suitable for high structure shell, and if the structure is side entry, the fittings are assembled on the side of the non-outlet hole

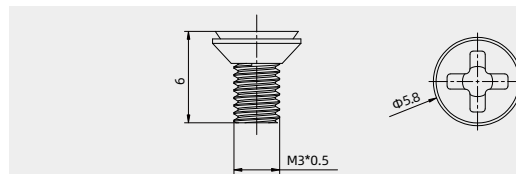
Adaptable products: HD (type B), HDD, HE, HVE, HEE, HSB, HK (with grounding connecting block structure on both sides) insert series.

Screw

Remark: SPQ is 1pc

Grounding screw for 3A
hoods/housings, With tapered seals

Designation	Order No.
M3*6	904 000 000 0029



HE-024 Sealing pad(dust, water, smoke, anti-shock)

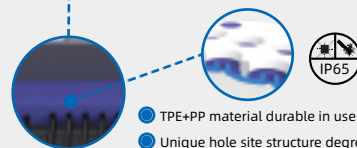
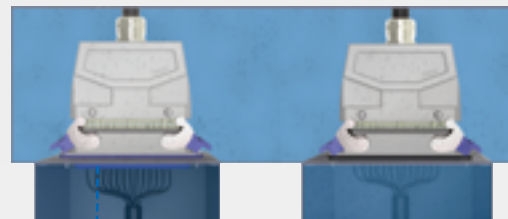
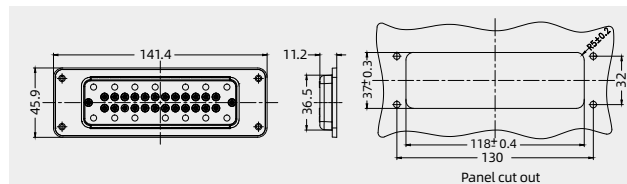
Protection covers

Remark: SPQ is 1pc

for 24B Housings,
bulkhead mounted
(HE-024 inserts)

Technical characteristics	
Material	PP+TPE
Limiting temperatures	-40°C ...+90°C
Wire gauge	0.14-2.5mm ²
Wire diameter	1.3-3.6mm
Degree of protection	IP65

Designation	Order No.
24B-F/Pro-hum	903 000 000 0278



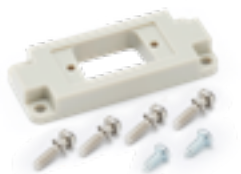
- TPE+PP material durable in use
- Unique hole site structure degree of protection up to IP65

Accessories

Adapter

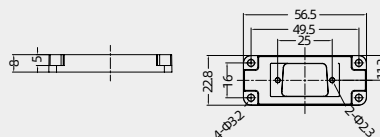
Remark: SPQ is 1pc

D-Sub adapter



Hoods/Housings: size 10A, please find the details on page 15-17~15-18.1

Designation	Order No.
APT-10A/DB-d25	198 002 007 0030

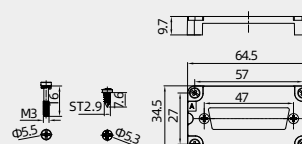


D-Sub adapter



Hoods/Housings: size 10B, please find the details on page 15-39~15-69

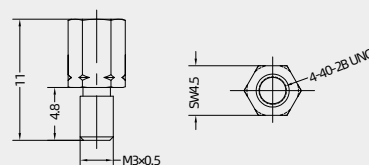
Designation	Order No.
APT-10B/DB-d47	198 002 007 0060



Hexagon bolt



Designation	Order No.
M3x6.2x11-#4-40	104 000 000 0001



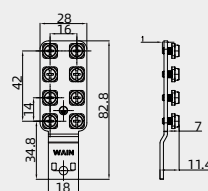
Grounded multiplier copper sheet

Remark: SPQ is 1pc

PE



Designation	Order No.
PE-8MGC	198 002 001 0011



Material: Cold-rolled sheet
 Surface: zinc-plated
 Torsion: The screw loses the protective tightening torque 1.2N.m
 Assembly requirements: Suitable for BK perforated housing
 Adaptable products: HD(type B),HDD,HE,H-VE,HEE,HSB,HK(with grounding connecting block structure on both sides) insert series.

Accessory - Fixed Clip

Accessory - Fixed Clip

Remark: SPQ is 1pc



Adapter

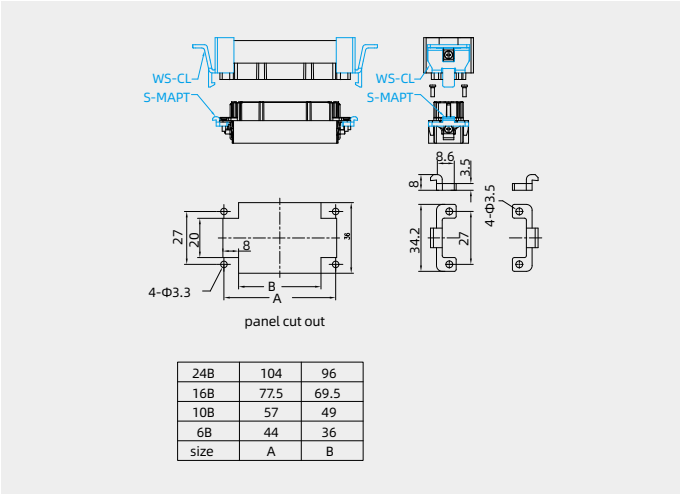


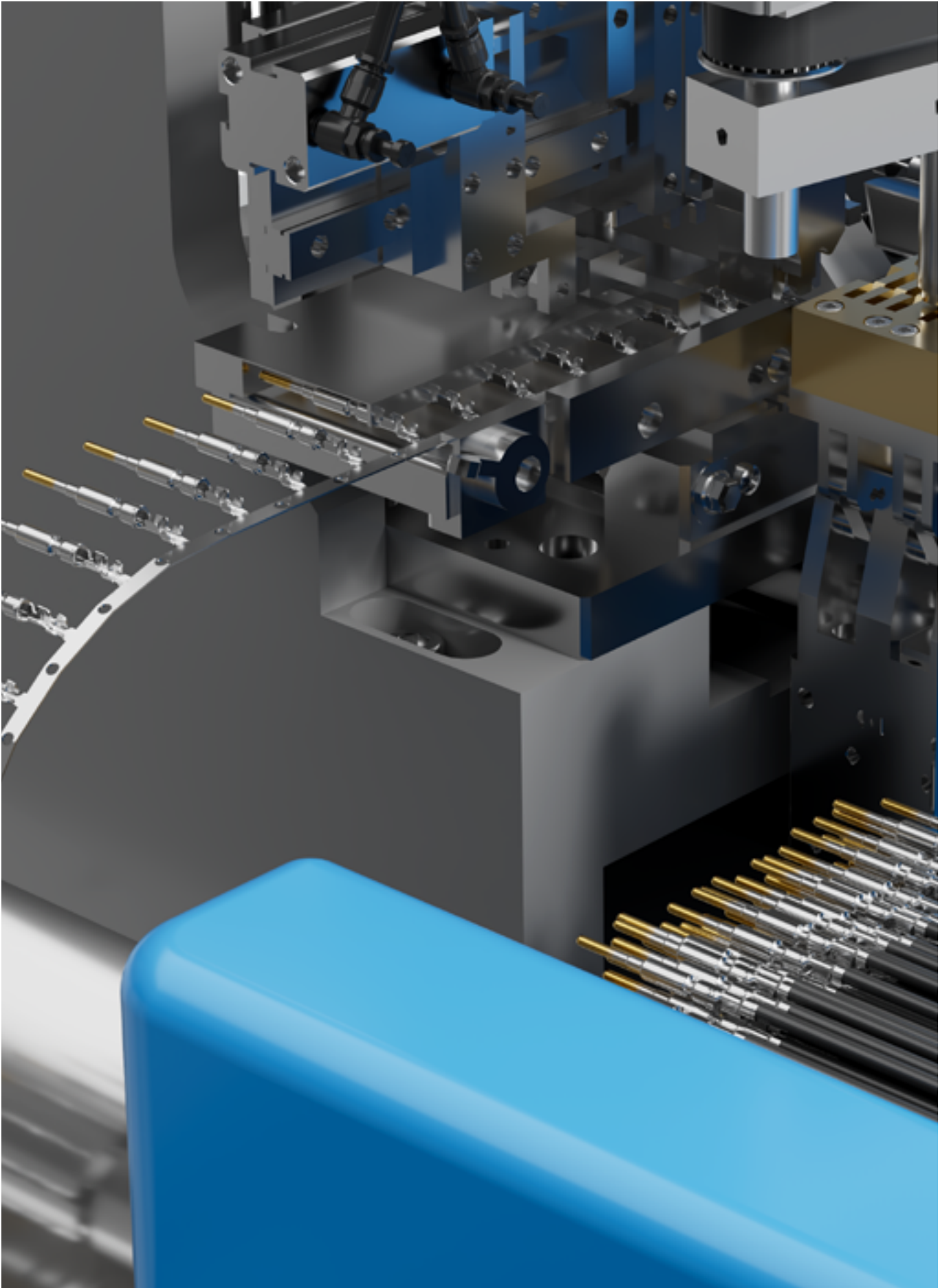
Designation	Order No.
WS-MAPT	198 002 007 0061

Fixed Clip



Designation	Order No.
WS-CL	198 002 007 0062





A