

HVG SERIES



KEY FEATURES

- Easy to install in a limited space
- Push-pull locking system with audible "click"
- EMI shielding
- No tool required to unmate
- Sealing, IP67, IP6K9K (mated)
- Multiple coding positions
- RoHS compliant

APPLICATIONS	
EV air-conditioner	
DCDC	
PTC	
Power distribution boxes	
MECHANICAL	
Durability	> 200 mating cycles
Connection type	Crimping
ELECTRICAL	
Rated voltage	800V DC
Rated current	2.5mm ² : 23A @Ambient temp. 70°C 4mm ² : 32A @Ambient temp. 70°C 6mm ² : 40A @Ambient temp. 70°C 10mm ² : 50A @Ambient temp. 70°C
Insulator resistance	> 2000MΩ
Dielectric withstand voltage	3000V AC
Shielding	Yes
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Temperature range	-40°C to 125°C, short term to 150°C
Inflammability	UL94V0
Salt spray	96h
MATERIAL	
Shell	Aluminum alloy with zinc, nickel plating and anodic oxidation
Contacts	Copper alloy, silver plating
Insulator	Flame-retardant thermoplastic composition
Sealing	Rubber

INSERT ARRANGEMENT

From front face of receptacle

Contacts

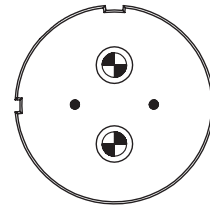
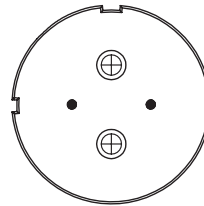
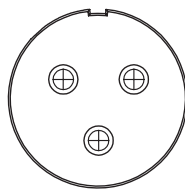


ø1.0

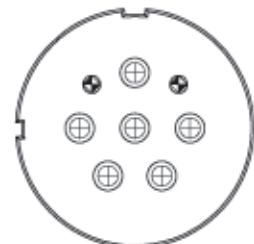
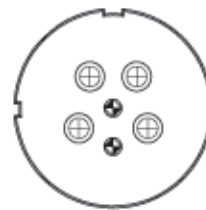
ø1.6

ø3.0

ø3.6mm



Insert arrangement	HVS203	HVG402	HVG492
Rated voltage	800V DC	800V DC	800V DC
Rated current	3 x 32A	2 x 32A + 2 x 7.5A	2 x 50A + 2 x 7.5A
Contact number	Power: 3	Power: 2 / Signal: 2	Power: 2 / Signal: 2
Withstanding voltage	2500V	3000V	3000V



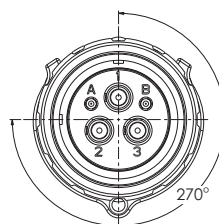
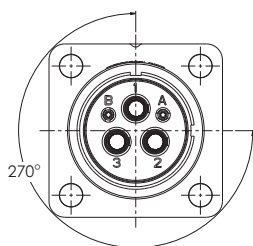
Insert arrangement	HVG403	HVG404	HVG406
Rated voltage	800V DC	800V DC	800V DC
Rated current	3 x 32A + 2 x 7.5A	4 x 32A + 2 x 7.5A	6 x 32A + 2 x 7.5A
Contact number	Power: 3 / Signal: 2	Power: 4 / Signal: 2	Power: 6 / Signal: 2
Withstanding voltage	3000V	3000V	3000V

ALTERNATE KEYING POSITIONS

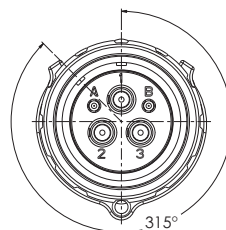
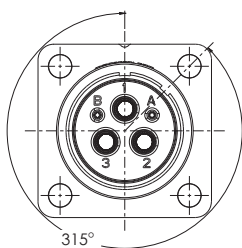
RECEPTACLE

STRAIGHT PLUG

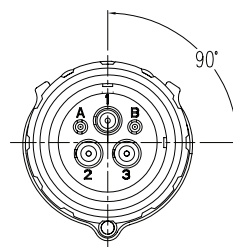
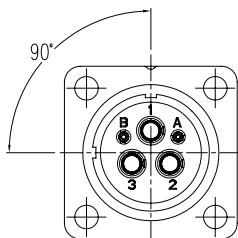
X: 270°



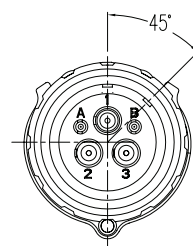
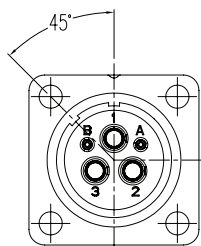
Y: 315°



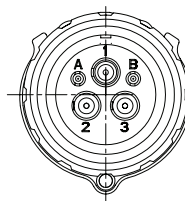
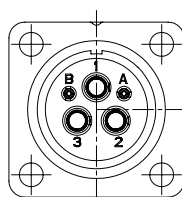
Z: 90°



W: 45°



N: NORMAL

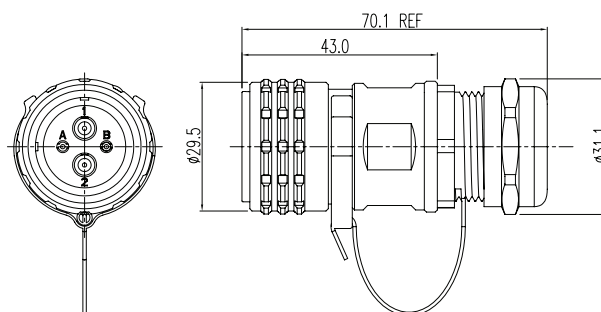
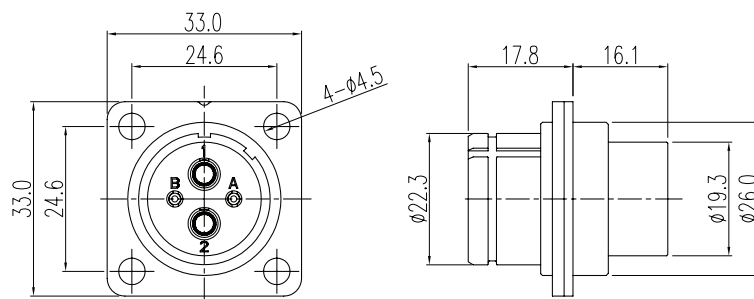


REMARK

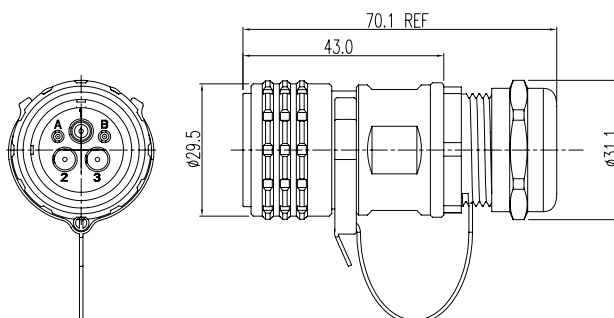
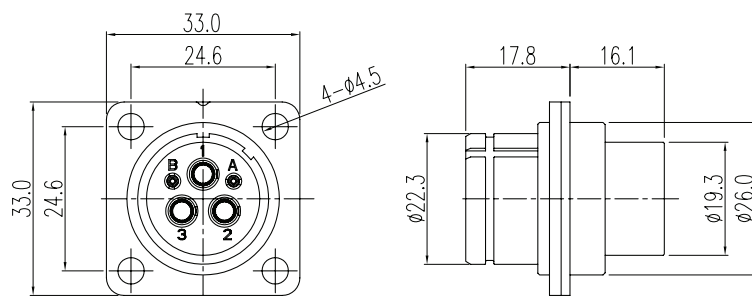
To avoid cross-plugging problems in applications requiring the use of more than one connector of the same size and arrangement, alternate keying positions are available.

The shell key is rotated counter-clockwise. The plug would be rotated clockwise the same number of degrees in respect to the shell key.

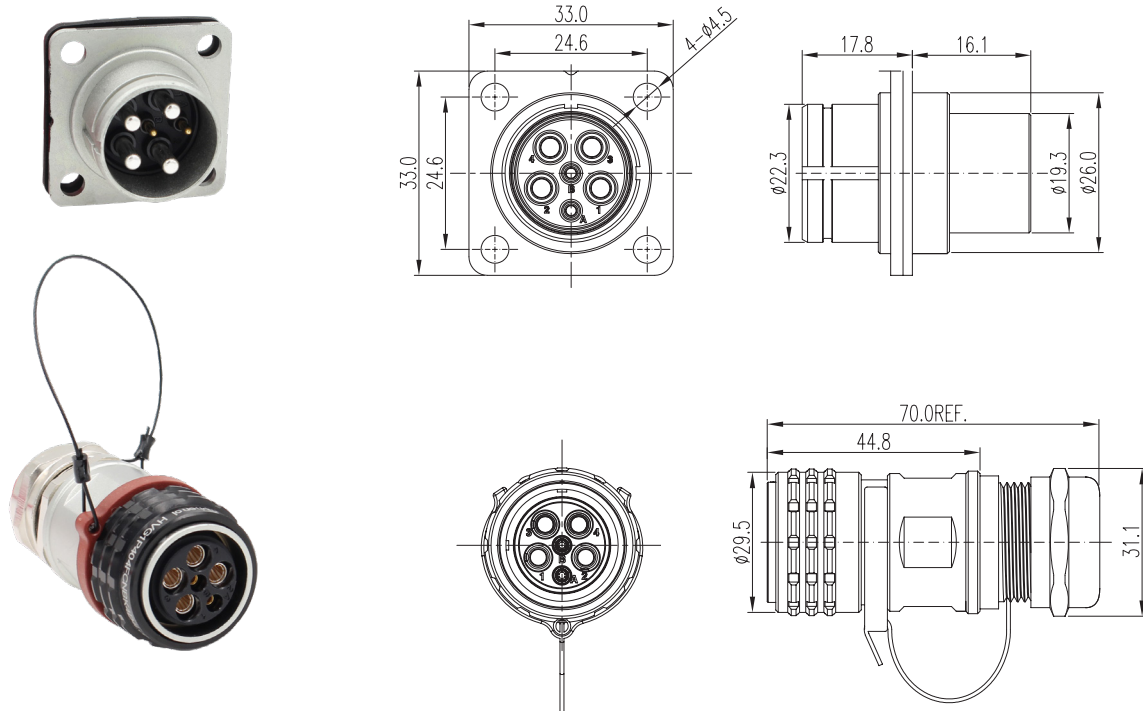
RECEPTACLE AND PLUG: 402



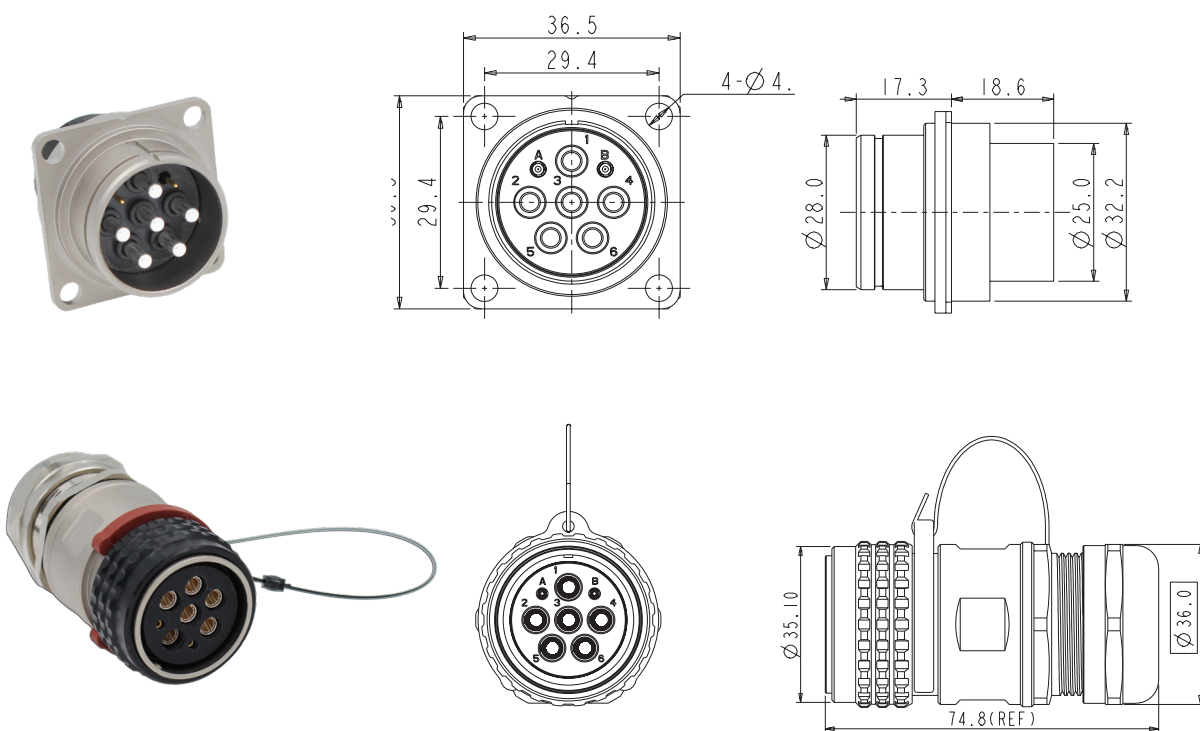
RECEPTACLE AND PLUG: 403



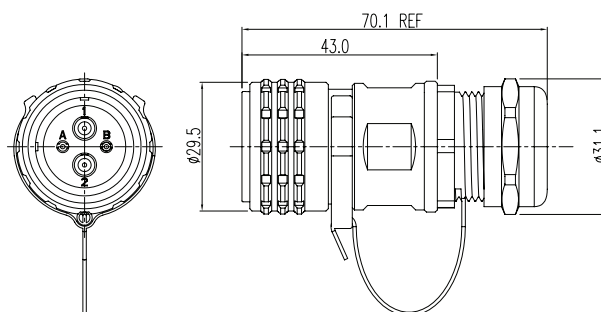
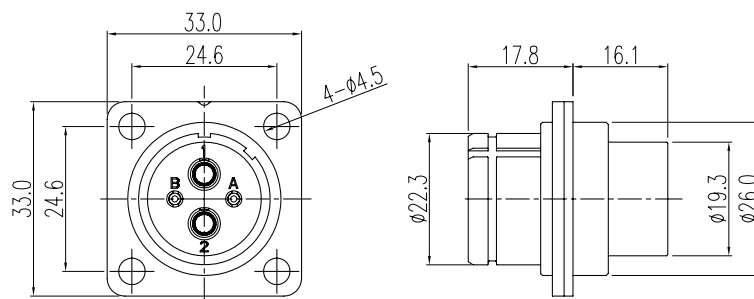
RECEPTACLE AND PLUG: 404



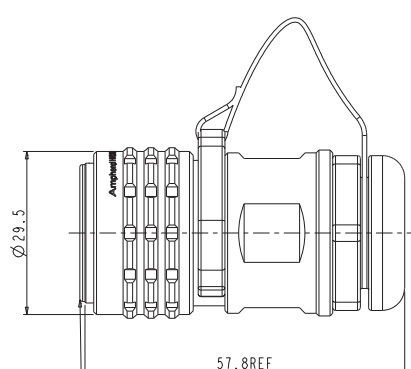
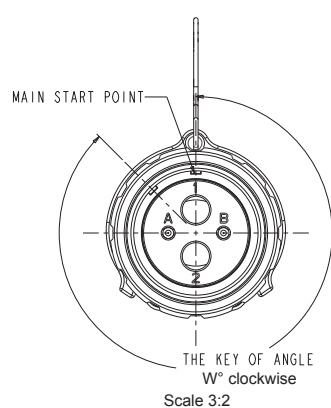
RECEPTACLE AND PLUG: 406



RECEPTACLE AND PLUG: 492



DUMMY PLUG: 402



The protective cap must be assembled before the finished product is shipped.
This protective cap is hidden on this drawing to conveniently mark the angle.

HVG IP 402 M C

X

X

S1

Key code:

See table below

Color code:

See table below

Dummy plug:

S1

KEY CODE	ANGLE OF KEY (W°)	COLOR CODE	COLOR OF LOCKING RING	P/N (FOR EXAMPLE)
NO CODE	0°	NO CODE	BLACK	HVGIP402MC
X	270°	R	RED	HVGIP402MC X R
Y	315°	Y	YELLOW	HVGIP402MC Y Y
Z	90°	B	BLUE	HVGIP402MC Z B
W	45°	G	GREEN	HVGIP402MC W G
X	270°	NO CODE	BLACK	HVGIP402MC X
Y	315°			HVGIP402MC Y
Z	90°			HVGIP402MC Z
W	45°			HVGIP402MC W
X	270°	B	BLUE	HVGIP402MC X B
Y	315°			HVGIP402MC Y B
Z	90°	R	RED	HVGIP402MC Z R

RECEPTACLE

	HVG	1S	402	M	C	XRD
HVG series						
Product type: 1S: Flange receptacle						
Insert arrangement: (HVG Series not include contact, order seperately, P/N please refer to page 30) 402: 2 X (23A to 32A) + 2 X 7.5A 403: 3 X (23A to 32A) + 2 X 7.5A 492: 2 X (40A to 50A) + 2 X 7.5A						
Contact type: M: Male contact F: Female contact						
C: Crimp version						
Alternate keying positions & Shell color: XRD: 270°, Red YYL: 315°, Yellow ZBL: 90°, Blue WGR: 45°, Green						

HOW TO ORDER: 402, 403, 492 - Shielded cable

PLUG - shielded cable

HVG	1P	402	M	C	XRD
HVG series					
Product type: 1P: 1-PIN Plug					
Insert arrangement: (HVG Series not include contact, order seperately, P/N please refer to page 30) 402: 2 X (23A to 32A) + 2 X 7.5A 403: 3 X (23A to 32A) + 2 X 7.5A 492: 2 X (40A to 50A) + 2 X 7.5A					
Contact type: M: Male contact F: Female contact					
C: Crimp version					
Alternate keying positions & Shell color: XRD: 270°, Red YYL: 315°, Yellow ZBL: 90°, Blue WGR: 45°, Green					

HOW TO ORDER: 402, 403, 492 - unshielded cable

PLUG - unshielded cable

	HVG	1P	402	M	C	XRD	2	D	4	L0000
HVG series										
Product type: 1P: 1-PIN Plug										
Insert arrangement (HVG series not include contact, order seperately, P/N please refer to page 30) 402: 2 X (23A to 32A) + 2 X 7.5A 403: 3 X (23A to 32A) + 2 X 7.5A 492: 2 X (40A to 50A) + 2 X 7.5A										
Contact type: M: Male contact F: Female contact										
C: Crimp version										
Alternate keying positions & Locking nut color: XRD: 270°, Red YYL: 315°, Yellow ZBL: 90°, Blue WGR: 45°, Green										
Cable cores: 2, 3										
Cable gland type: D: Unshielded wire										
Cable section: 2: 2.5mm ² (rated voltage of 23A) 4: 4mm ² (rated voltage of 32A) 6: 6mm ² (rated voltage of 40A) A: 10mm ² (rated voltage of 50A)										
Cable length: L0000: Cable length (Unit in mm)										

RECEPTACLE

	HVS	1S	203	M	C	X
HVS series						
Product type: 1S: Flange receptacle						
Insert arrangement: 203: 3 X 32A						
Contact type: M: Male contact F: Female contact						
C: Crimp version						
Alternate keying positions: Omit: Without X: 270° Y: 315° Z: 90° W: 45°						

PLUG

	HVS	1P	203	M	C	X
HVS series						
Product type: 1P: 1-PIN Plug						
Insert arrangement: 203: 3 X 32A						
Contact type: M: Male contact F: Female contact						
C: Crimp version						
Alternate keying positions: Omit: Without X: 270° Y: 315° Z: 90° W: 45°						

HOW TO ORDER: 404

RECEPTACLE

HVG	1S	404	M	C	XRD	4	D	4	L0000
HVG series									
Product type: 1S: Flange receptacle									
Insert arrangement: (HVG Series not include contact, order seperately, P/N please refer to page P30) 404: 4 X (23A to 32A) + 2 X 7.5A									
Contact type: M: Male contact									
C: Crimp version									
Alternate keying positions & Shell color: XRD: 270°, Red YGR: 315°, Green ZBL: 90°, Blue WYL: 45°, Yellow									
Cable cores: 4									
Cable gland type: D: Unshielded wire									
Cable section: 2: 2.5mm ² (rated voltage of 23A) 4: 4mm ² (rated voltage of 32A)									
Cable length: L0000: Cable length (Unit in mm)									

RECEPTACLE

	HVG	1S	406	M	C	XRD
HVG series						
Product type: 1S: Flange receptacle						
Insert arrangement (HVG series not include contact, order seperately, P/N please refer to page P30) 406: 6 X (23A to 32A) + 2 X 7.5A						
Contact type: M: Male contact						
C: Crimp version						
Alternate keying positions & Locking nut color: XRD: 270°, Red YGR: 315°, Green ZBL: 90°, Blue WYL: 45°, Yellow						

PLUG

	HVG	1P	404	F	C	XRD	4	D	4	L0000
HVG series										
Product type: 1P: 1-PIN Plug										
Insert arrangement (HVG series not include contact, order seperately, P/N please refer to page 32) 404: 4 X (23A to 32A) + 2 X 7.5A 406: 6 X (23A to 32A) + 2 X 7.5A										
Contact type: F: Female contact										
C: Crimp version										
Alternate keying positions & Locking nut color: XRD: 270°, Red YGR: 315°, Green ZBL: 90°, Blue WYL: 45°, Yellow										
Cable cores: 4, 6										
Cable gland type: A: Shielded cable D: Unshielded wire										
Cable section: 2: 2.5mm ² (rated voltage of 23A) 4: 4mm ² (rated voltage of 2A)										
Cable length: L0000: Cable length (Unit in mm)										