AMPHENOL PCD



Excel | Mate Mono

High Voltage with Inter-Lock

Ref. No: HVBI & EX-0626

www.amphenolpcd.com.cn

HIGHPOWER @ AMPHENOL TRUSTED GLOBALLY

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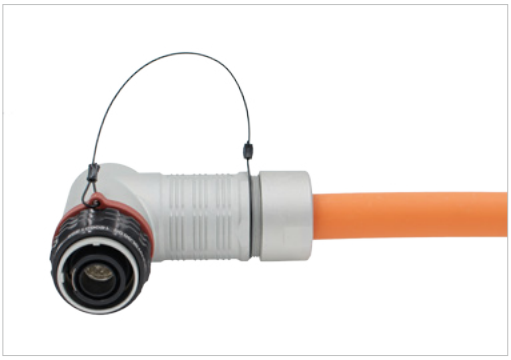
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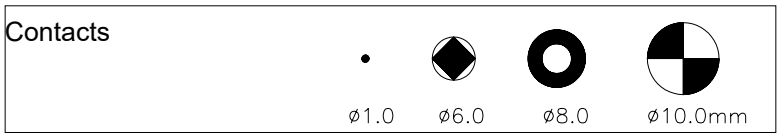
KEY FEATURES

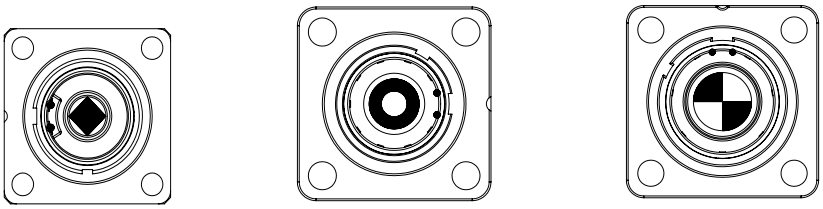
- High voltage with interlock
- Easy to install in a limited space
- Push-pull locking system with audible "click"
- EMI shielding
- No tool required for unmating
- Sealing, IP67, IP6K9K (mated)
- Touch-proof IP2XB
- RoHS compliant
- Multiple coding positions

MECHANICAL	
Durability	> 200 mating cycles
Wire range	16 to 70mm^2
Connection type	Crimping
ELECTRICAL	
Rated voltage	1000V DC
Rated current	250A Max @ Ambient temperature 70°C
Insulator resistance	> 2000MΩ
Dielectric withstand voltage	3000V AC
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Operating temperature	-40°C to 125°C
Inflammability	UL94V0
Salt spray	48h, 96h
MATERIAL	
Shell	Zinc alloy, zinc plating and anodic oxidation
Contacts	Copper alloy, silver plating
Insulator	Flame-retardant thermoplastic composition
Sealing	Rubber

INSERT ARRANGEMENT

From front face of receptacle





Insert arrangement	HVBI R6	HVBI R8	HVBI R10
Rated voltage	1000V DC	1000V DC	1000V DC
Rated current	120A +2 x 7.5A	180A +2 x 7.5A	250A +2 x 7.5A
Contact number	Power: 1 / Signal: 2	Power: 1 / Signal: 2	Power: 1 / Signal: 2
Withstanding voltage	3000V AC	3000V AC	3000V AC

HOW TO ORDER: RECEPTACLE

	HVBI	0	02R6	A	M	H	BBK

Shell type:
0: Receptacle

Insert size:
02R6: 6mm Male contact (Rated current 120A)
03R8: 8mm Male contact (Rated current 180A)
05R10: 10mm Male contact (Rated current 250A)

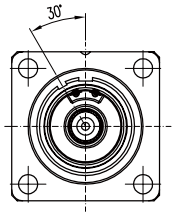
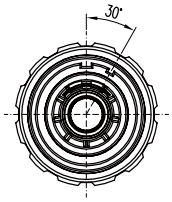
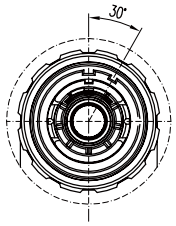
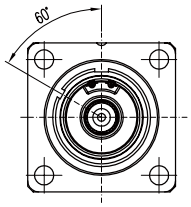
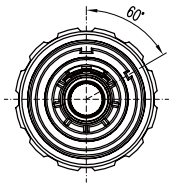
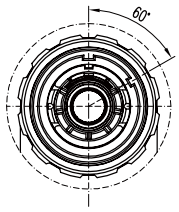
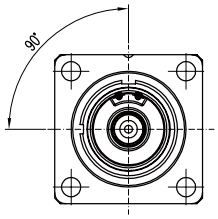
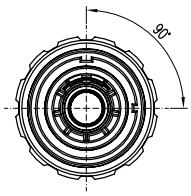
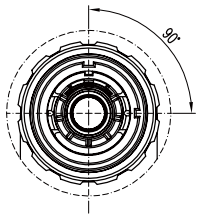
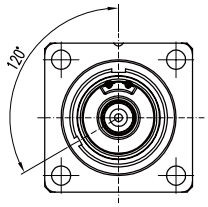
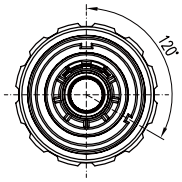
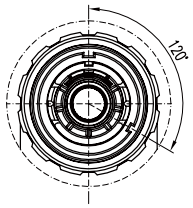
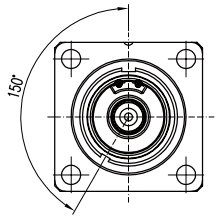
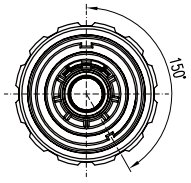
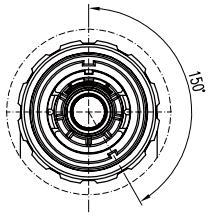
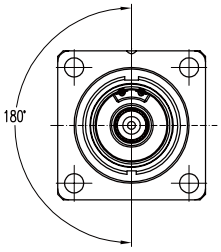
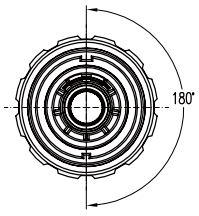
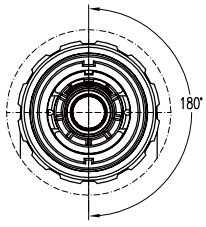
HVIL:
A: With HVIL
B: Without HVIL

Insert type:
M: Male contact

Termination:
H: Copper bar
H6: M6 Thread (For contact insert R6, R8)
H8: M8 Thread (For contact insert R10)

Alternate keying positions & **Color of locking nut:**
ARD: 30°, Red
BBK: 60°, Black
CYL: 90°, Yellow
DGR: 120°, Green
EBL: 150°, Blue
FPU: 180°, Purple

ALTERNATE KEYING POSITIONS

	RECEPTACLE	STRAIGHT PLUG	RIGHT ANGLE PLUG
A: 30°			
B: 60°			
C: 90°			
D: 120°			
E: 150°			
F: 180°			

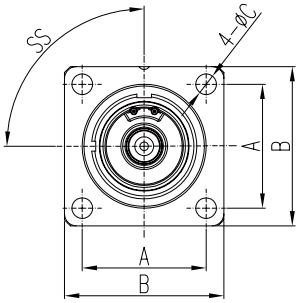
REMARK

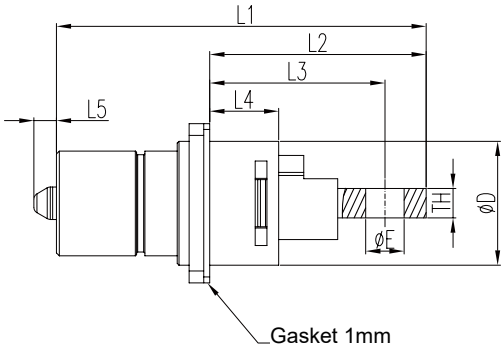
To avoid cross-plugging problems in applications requiring the use of more than one connector of the same size and arrangement, alternate keying positions are available.

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 WITH COPPER BAR







Part number	A	B	C	D	E	L1	L2	L3	L4	L5	TH
HVBI-0-02R6-XMHX-XX	21.0	27.0	3.5	21.0	6.5	62.7	37.7	30.7	12.7	3.8	5.0
HVBI-0-03R8-XMHX-XX	23.0	31.0	4.5	23.0	8.5	76.7	43.7	35.7	15.9	/	5.0
HVBI-0-05R10-XMHX-XX	24.6	33.0	4.5	26.0	10.5	85.9	52.6	40.6	18.4	0.8	6.0
HVBI-0-02R6-XMH6X-XX	21.0	27.0	3.5	21.0	M6	62.7	37.7	30.7	12.7	3.8	5.0
HVBI-0-03R8-XMH6X-XX	23.0	31.0	4.5	23.0	M6	76.7	43.7	35.7	15.9	/	5.0
HVBI-0-05R10-XMH8X-XX	24.6	33.0	4.5	26.0	M8	85.9	52.6	40.6	18.4	0.8	6.0

HOW TO ORDER: PLUG

HVBI	9	02R6	A	F	C	ARD	FG	25	LXXXX

Shell type:
7: Straight plug
9: Right angle plug

Insert size:
02R6: 6mm Radsok (Rated current 120A)
03R8: 8mm Radsok (Rated current 180A)
05R10: 10mm Radsok (Rated current 250A)

HVIL:
A: With HVIL
B: Without HVIL

Insert type:
F: Female contact

Contact type:
C: Crimp

Alternate keying positions:
ARD: 30°, Red
BBK: 60°, Black
CYL: 90°, Yellow
DGR: 120°, Green
EBL: 150°, Blue
FPU: 180°, Purple

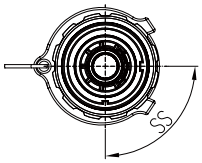
FG: Shielded
PC: Unshielded

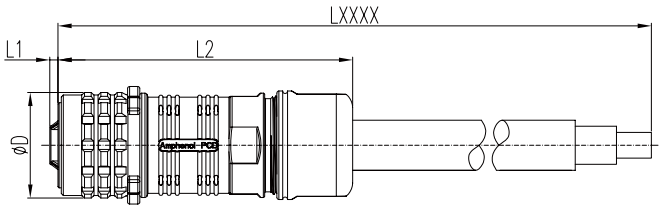
Cable section:
16: 16mm^2 cable
25: 25mm^2 cable
3**5:** 35mm^2 cable
50: 50mm^2 cable
70: 70mm^2 cable

Cable length:
LXXXX: Cable length (Unit in mm)

STRAIGHT PLUG

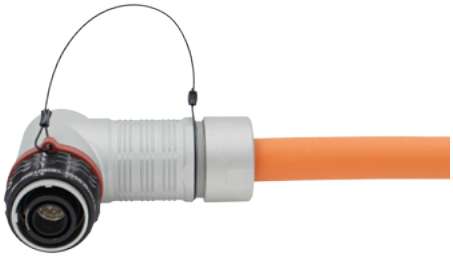


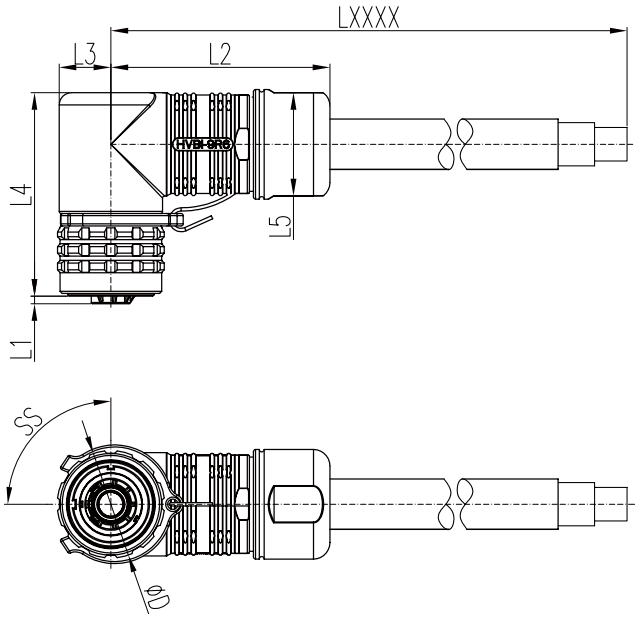




Part number	D	L1	L2	LXXXX	Cable section(mm^2)
HVBI-7-02R6-XFC-X-XX-FG / PC-XX....	26.0	2.0	70	Cable length (mm), custom orders are available	$16mm^2$ to $25mm^2$
HVBI-7-03R8-XFC-X-XX-FG / PC-XX....	27.5	2.0	82		$35mm^2$ to $50mm^2$
HVBI-7-05R10-XFC-X-XX-FG / PC-XX....	32.5	1.5	92		$50mm^2$ to $70mm^2$
Notes: FG: Shielded type PC: Unshielded type					

RIGHT ANGLE PLUG

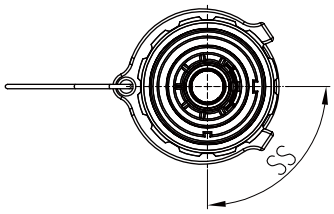


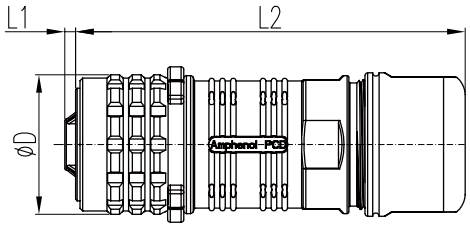


Part number	D	L1	L2	L3	L4	L5	LXXXX	Cable section (mm^2)
HVBI-9-02R6-XFC-X-XX-FG / PC-XX....	26.0	1.8	53.0	12.5	49.3	25.0	Cable length (mm), custom orders are available	$16mm^2$ to $25mm^2$
HVBI-9-03R8-XFC-X-XX-FG / PC-XX....	27.5	2.0	62.0	13.9	58.5	27.3		$35mm^2$ to $50mm^2$
HVBI-9-05R10-XFC-X-XX-FG / PC-XX.	32.5	1.5	69.5	16.0	64.0	31.5		$50mm^2$ to $70mm^2$
Notes: FG: Shielded type PC: Unshielded type								

STRAIGHT DUMMY PLUG



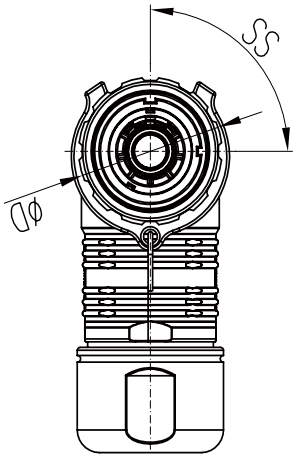


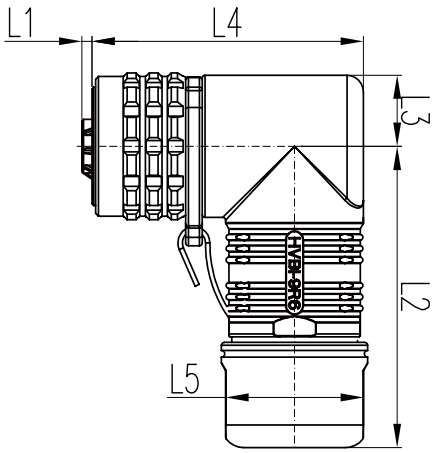


Part number	D	L1	L2
HVBI-7-03R8-XFC-X-XX-S1	27.5	2.0	82
HVBI-7-05R10-XFC-X-XX-S1	32.5	1.5	92

RIGHT ANGLE DUMMY PLUG







Part number	D	L1	L2	L3	L4	L5
HVBI-9-03R8-XFC-X-XX-S1	27.5	2.0	62.0	13.9	58.5	27.3
HVBI-9-05R10-XFC-X-XX-S1	32.5	1.5	69.5	16.0	64.0	31.5







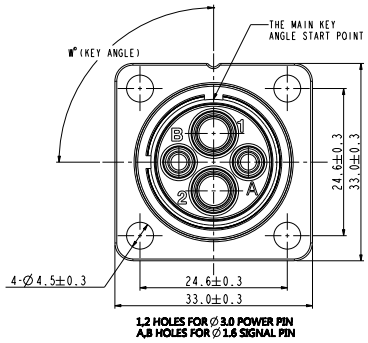
KEY FEATURES

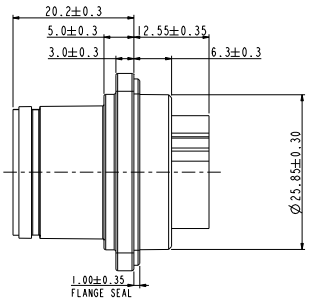
- Easy to install in a limited space
- Push-pull locking system with audible "click"
- EMI shielding
- No tool required to unmate
- Sealing, IP68, IP6K9K (mated)
- Touch-proof IP2XB
- Multiple coding positions
- RoHS compliant

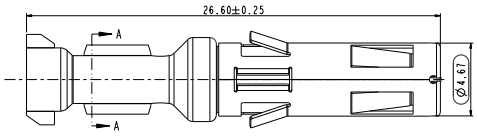
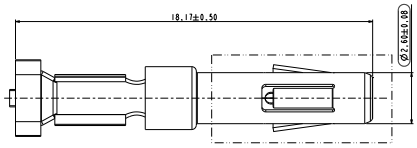
APPLICATIONS	
EV air-conditioner	
DCDC	
PTC	
Power distribution boxes	
MECHANICAL	
Durability	50 mating cycles
Wire range	2.5 to 6mm^2 (RA plug: 2.5 to 4mm^2)
Connection type	Crimping
ELECTRICAL	
Rated voltage	1000V DC
Rated current	6.0mm^2 cable shield: 40A Max @ Ambient temperature 70°C 4.0mm^2 cable shield: 32A Max @ Ambient temperature 70°C 2.5mm^2 cable shield: 23A Max @ Ambient temperature 70°C
Insulator resistance	> 2000MΩ
Dielectric withstand voltage	3000V AC
ENVIRONMENTAL	
Sealing	IP68, IP6K9K (mated)
Touch-proof	IP2XB
Operating temperature	-40°C to 125°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

RECEPTACLE EX 402



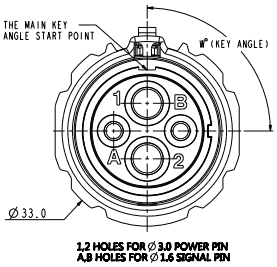


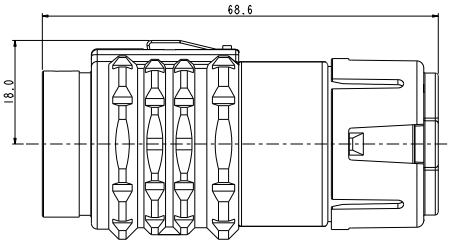


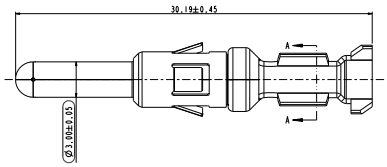
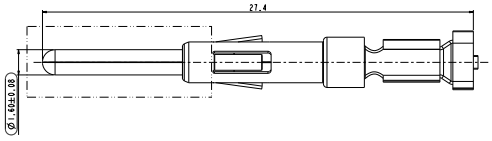
All connectors do not include contacts. Please order them separately (ref: P/N below)	
Socket contact (Ø 3.0): crimping	Socket signal contact (Ø 1.6)
P/N: **EX30F4** (for 2.5 to 4 mm^2) P/N: **EX30F6** (for 6 mm^2)	P/N: **EX16F1**
	

STRAIGHT PLUG EX 402 (**Individual** shielded wire)



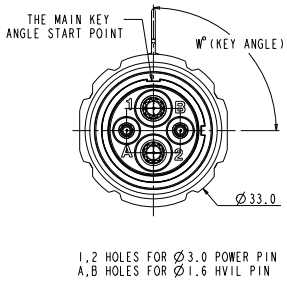


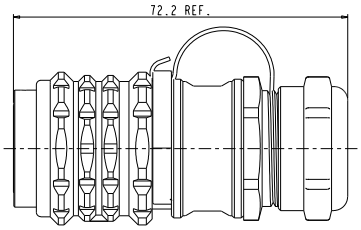


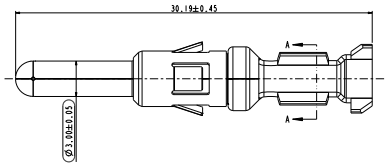
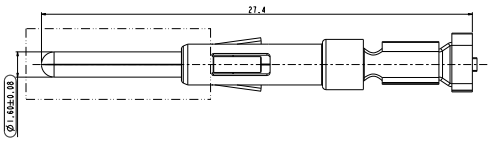
All connectors do not include contacts. Please order them separately (ref: P/N below)	
Pin contact (Ø 3.0): crimping	Pin signal contact (Ø 1.6)
P/N: **EX30M4** (for 2.5 to 4 mm^2) P/N: **EX30M6** (for 6 mm^2)	P/N: **EX16M1**
	

STRAIGHT PLUG EX 402 (**Multicore** shielded wire)



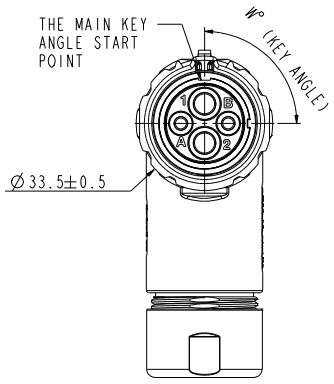


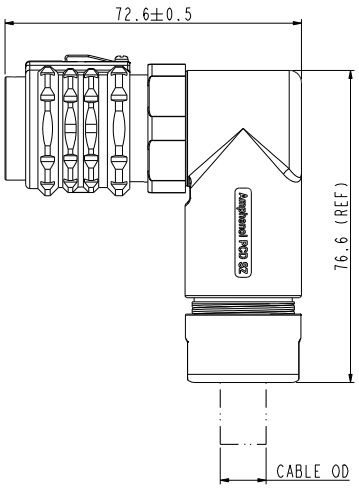


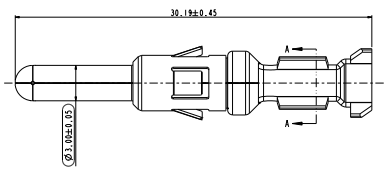
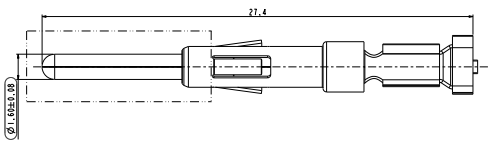
All connectors do not include contacts. Please order them separately (ref: P/N below)	
Pin contact (Ø 3.0): crimping	Pin signal contact (Ø 1.6)
P/N: **EX30M4** (for 2.5 to 4 mm^2) P/N: **EX30M6** (for 6 mm^2)	P/N: **EX16M1**
	

RIGHT-ANGLE PLUG EX 402

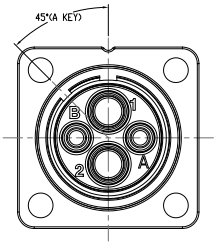
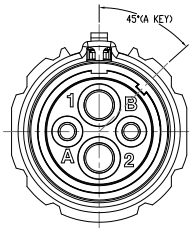
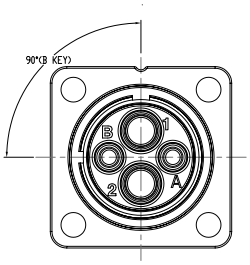
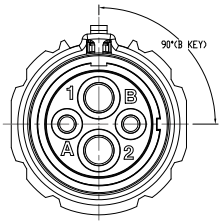
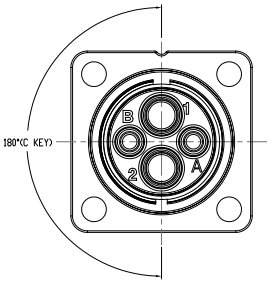
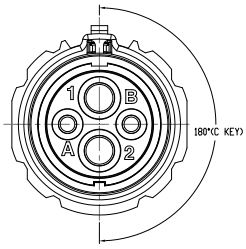
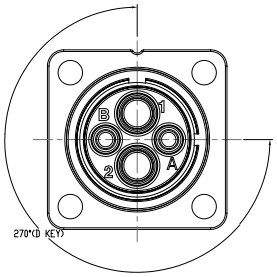
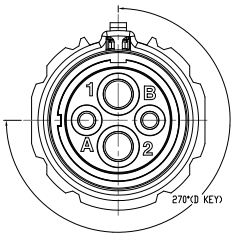
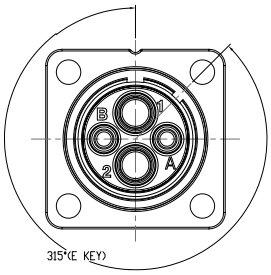
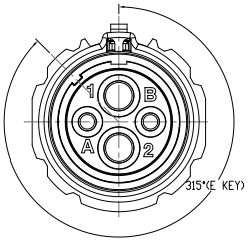






All connectors do not include contacts. Please order them separately (ref: P/N below)	
Pin contact (Ø 3.0): crimping	Pin signal contact (Ø 1.6)
P/N: **EX30M4** (for 2.5 to 4 mm^2) P/N: **EX30M6** (for 6 mm^2)	P/N: **EX16M1**
	

EX 402: ALTERNATE KEYING POSITIONS

	RECEPTACLE	STRAIGHT PLUG
A: 45°		
B: 90°		
C: 180°		
D: 270°		
E: 315°		

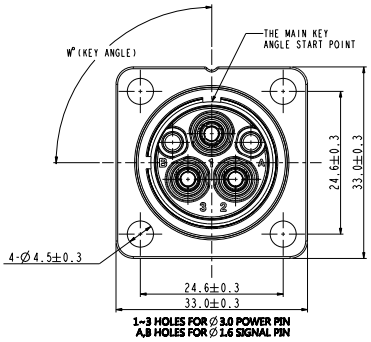
REMARK

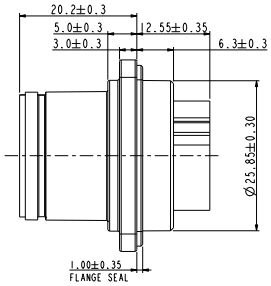
To avoid cross-plugging problems in applications requiring the use of more than one connector of the same size and arrangement, alternate keying positions are available.

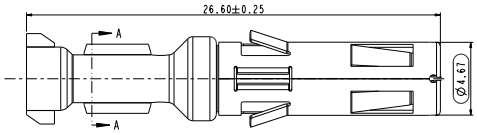
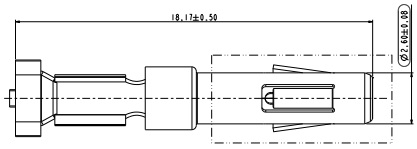
The shell key is rotated counter-clockwise. The plug would be rotated clockwise the same number of degrees in respect to the shell key.

RECEPTACLE EX 403



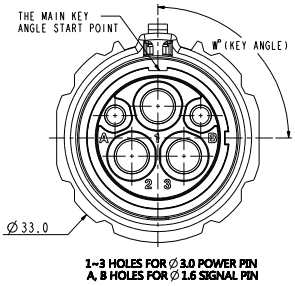


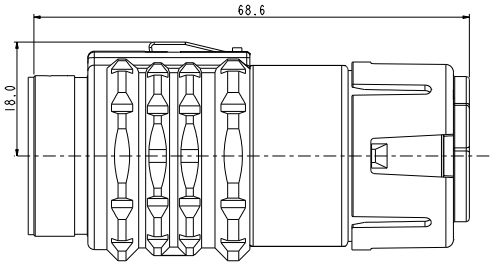


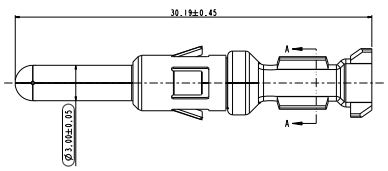
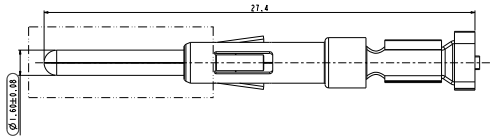
All connectors do not include contacts. Please order them separately (ref: P/N below)	
Socket contact (Ø 3.0): crimping	Socket signal contact (Ø 1.6)
P/N: **EX30F4** (for 2.5 to 4 mm^2) P/N: **EX30F6** (for 6 mm^2)	P/N: **EX16F1**
	

STRAIGHT PLUG EX 403 (**Individual** shielded wire)



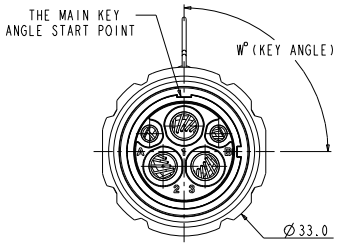


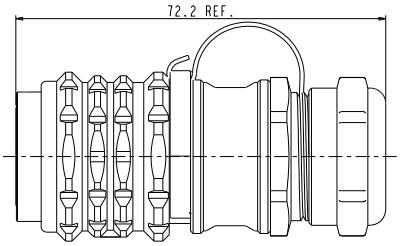


All connectors do not include contacts. Please order them separately (ref: P/N below)	
Pin contact (Ø 3.0): crimping	Pin signal contact (Ø 1.6)
P/N: **EX30M4** (for 2.5 to 4 mm^2) P/N: **EX30M6** (for 6 mm^2)	P/N: **EX16M1**
	

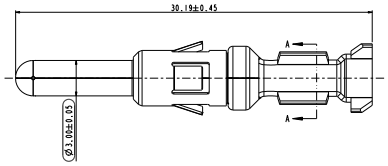
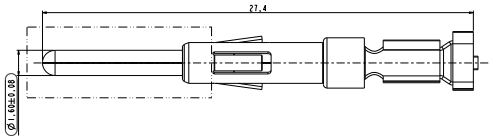
STRAIGHT PLUG EX 403 (**Multicore** shielded wire)





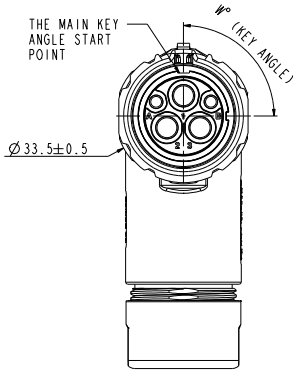


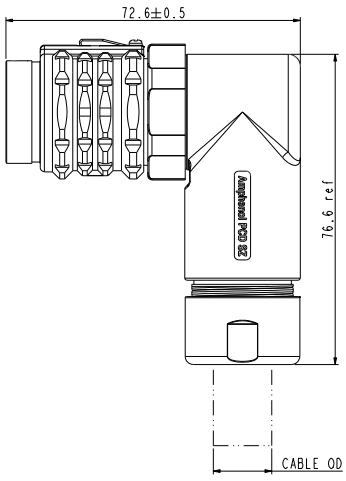
1~3 HOLES FOR Ø3.0 POWER PIN
A, B HOLES FOR Ø1.6 HVIL PIN

All connectors do not include contacts. Please order them separately (ref: P/N below)	
Pin contact (Ø 3.0): crimping	Pin signal contact (Ø 1.6)
P/N: **EX30M4** (for 2.5 to 4 mm^2) P/N: **EX30M6** (for 6 mm^2)	P/N: **EX16M1**
	

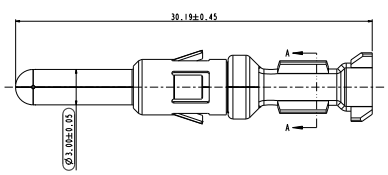
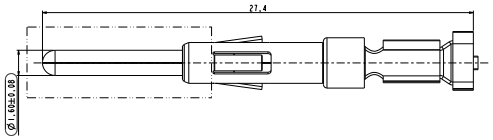
RIGHT-ANGLE PLUG EX 403



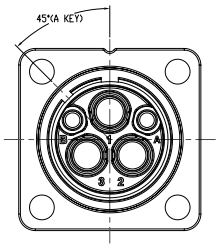
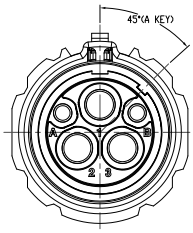
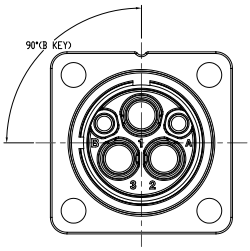
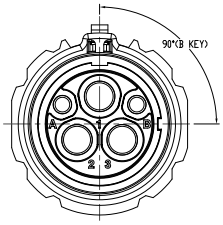
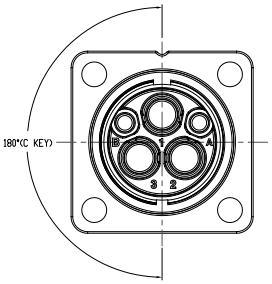
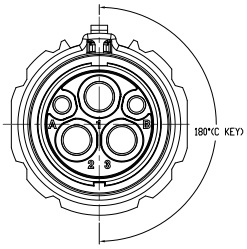
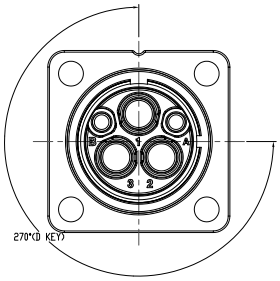
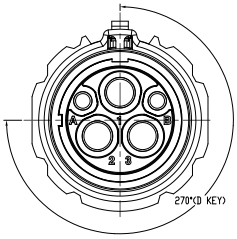
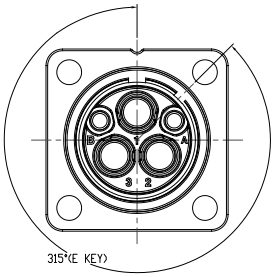
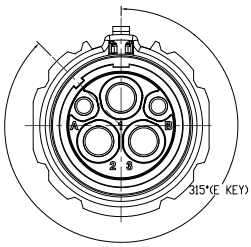




1、2 、3 HOLES FOR Ø3.0 POWER PIN
A、B HOLES FOR Ø1.6 SIGNAL PIN

All connectors do not include contacts. Please order them separately (ref: P/N below)	
Pin contact (Ø 3.0): crimping	Pin signal contact (Ø 1.6)
P/N: **EX30M4** (for 2.5 to 4 mm^2) P/N: **EX30M6** (for 6 mm^2)	P/N: **EX16M1**
	

EX 403: ALTERNATE KEYING POSITIONS

	RECEPTACLE	STRAIGHT PLUG
A: 45°		
B: 90°		
C: 180°		
D: 270°		
E: 315°		

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.

HOW TO ORDER

STRAIGHT PLUG (**Individual** shielded wire)

EX	402	06	A	1	2	I

Product series: 402 (2 pin), 403 (3 pin)

Product type:
06: Straight plug

Alternate keying positions & Locking nut color:
A: Coding A, Red
B: Coding B, Black
C: Coding C, Yellow
D: Coding D, Green
E: Coding E, Blue

Interlock
0: Without interlock
1: With internal interlock
2: With external interlock

Cable section:
2: 2.5mm^2 (23A)
4: 4.0mm^2 (32A)
6: 6.0mm^2 (40A)

Cable type: **I:** Individually





STRAIGHT PLUG (**Multicore** shielded wire)

EX	402	06	A	M

Product series: 402 (2 pin), 403 (3 pin)

Product type:
06: Straight plug

Alternate keying positions & Locking nut color:
A: Coding A, Red
B: Coding B, Black
C: Coding C, Yellow
D: Coding D, Green
E: Coding E, Blue

Cable type: M: Multicore





EX	402	08	A	1	11	M

Product series: 402 (2 pin), 403 (3 pin)

Product type:
08: Right-angle plug

Alternate keying positions & Locking nut color:
A: Coding A, Red
B: Coding B, Black
C: Coding C, Yellow
D: Coding D, Green
E: Coding E, Blue

Interlock
0: Without interlock
1: With internal interlock
2: With external interlock

Cable section:
11: Cable OD 10 to 10.8mm
12: Cable OD 10.9 to 11.8mm
13: Cable OD 11.9 to 12.8mm
14: Cable OD 12.9 to 14mm

Cable type: M: Multicore



RECEPTACLE

EX	402	02	A

Product series: 402 (2 pin), 403 (3 pin)

Product type:
02: Flange receptacle

Alternate keying positions & Locking nut color:
A: Coding A, Red
B: Coding B, Black
C: Coding C, Yellow
D: Coding D, Green
E: Coding E, Blue







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

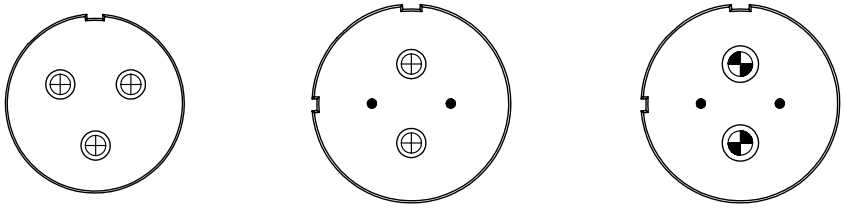
APPLICATIONS	
EV air-conditioner	
DCDC	
PTC	
Power distribution boxes	
MECHANICAL	
Durability	> 200 mating cycles
Connection type	Crimping
ELECTRICAL	
Rated voltage	800V DC
Rated current	2.5mm^2: 23A @Ambient temp. 70°C 4mm^2: 32A @Ambient temp. 70°C 6mm^2: 40A @Ambient temp. 70°C 10mm^2: 50A @Ambient 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

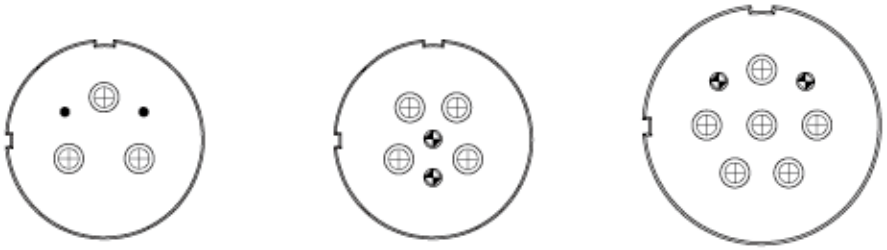
From front face of receptacle

Contacts

ø1.0 ø1.6 ø3.0 ø3.6mm

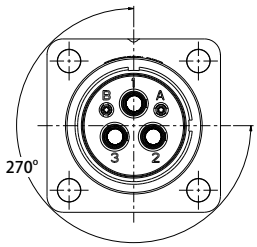
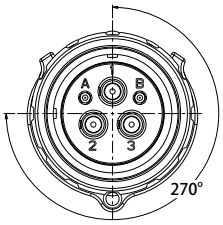
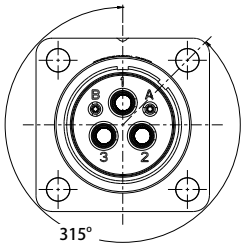
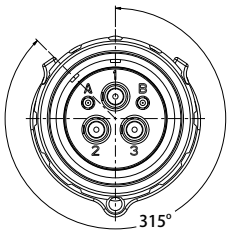
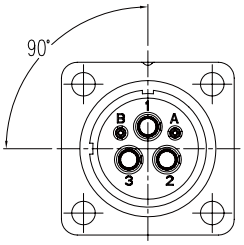
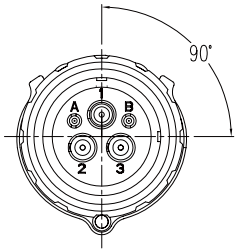
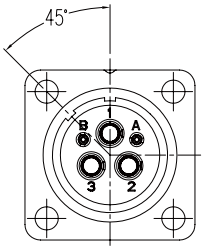
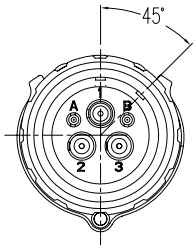
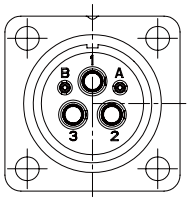
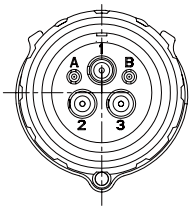


Insert arrangement	HVS203	HVG402	HVG492
Rated voltage	800V DC	800V DC	800V DC
Rated current	3 x 32A	2 x 32A + 2 x 7.5A	2 x 50A + 2 x 7.5A
Contact number	Power: 3	Power: 2 / Signal: 2	Power: 2 / Signal: 2
Withstanding voltage	2500V	3000V	3000V



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		

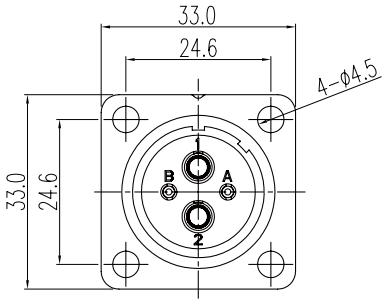
REMARK

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.

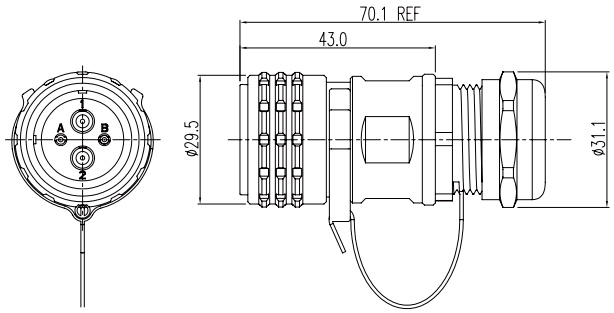
The shell key is rotated counter-clockwise. The plug would be rotated clockwise the same number of degrees in respect to the shell key.

RECEPTACLE AND PLUG: 402



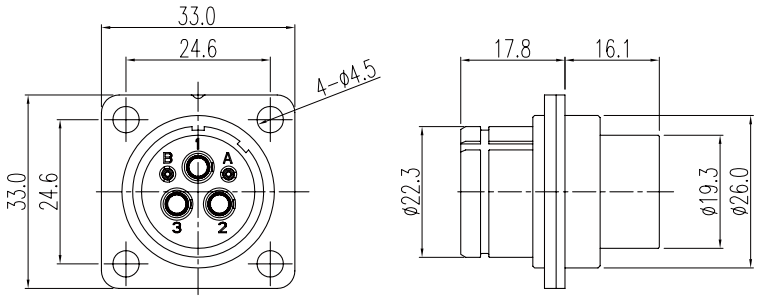




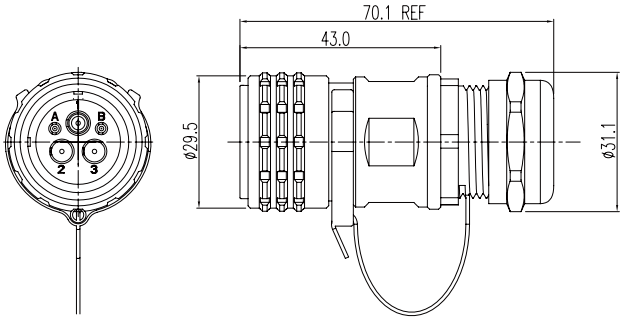


RECEPTACLE AND PLUG: 403





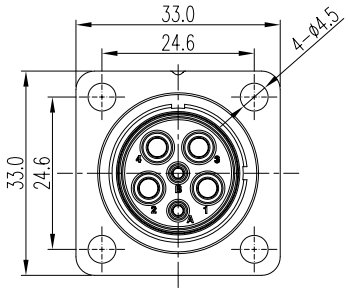


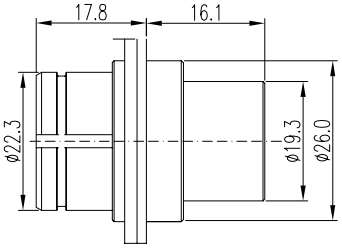


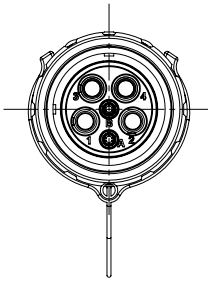
RECEPTACLE AND PLUG: 404

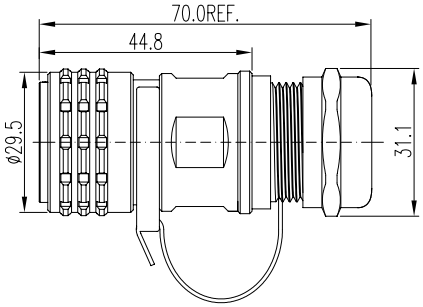








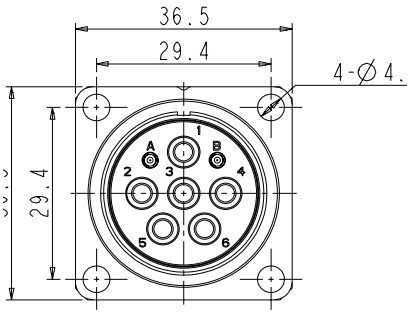


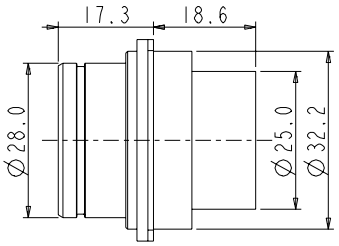


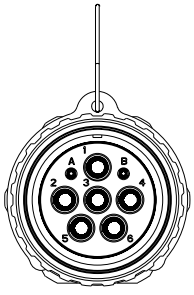
RECEPTACLE AND PLUG: 406

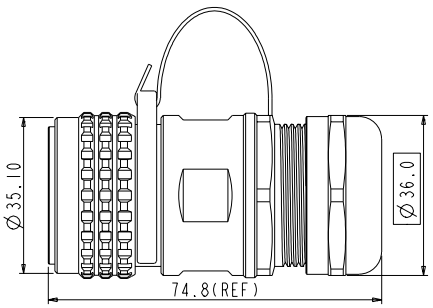






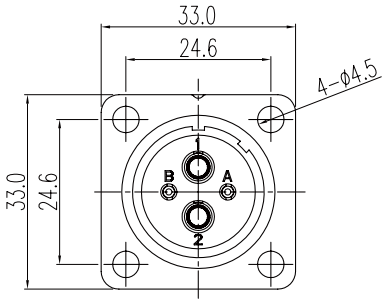


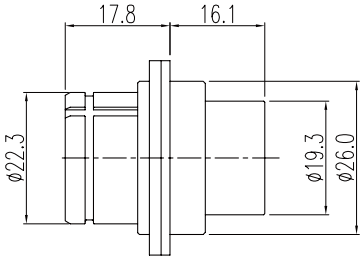




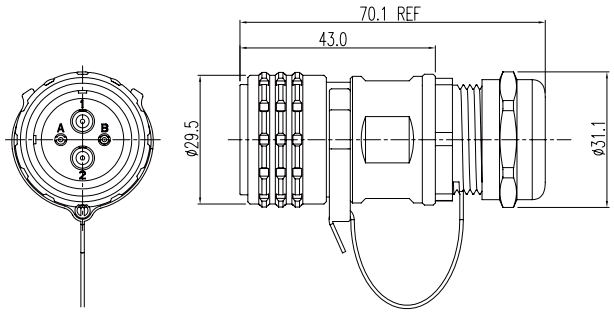
RECEPTACLE AND PLUG: 492







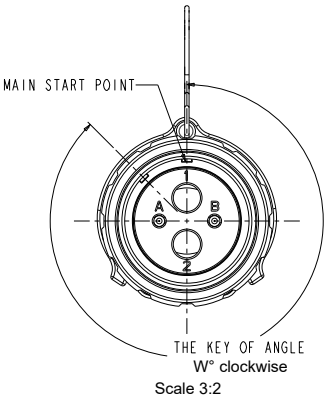




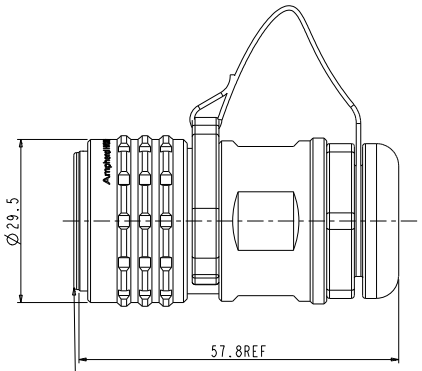
DUMMY PLUG: 402







Scale 3:2



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

HOW TO ORDER: 402,403,492

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)

HOW TO ORDER: 203

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°

HOW TO ORDER : 203

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)

HOW TO ORDER: 406

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

HOW TO ORDER: 404, 406

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 32A)

Cable length:
L0000: Cable length (Unit in mm)





KEY FEATURES

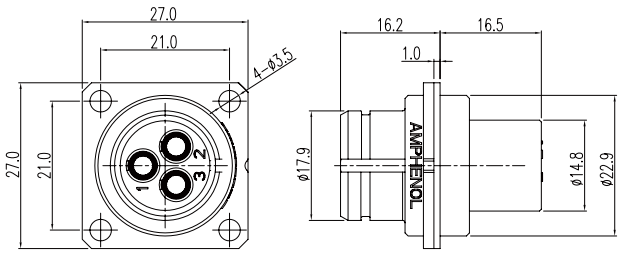
- Easy to install in a limited space
- Push-pull locking system with audible "click"
- EMI shielding
- No tool required for unmating
- Sealing, IP67, IP6K9K (mated)
- Multiple coding positions
- RoHS compliant

APPLICATIONS	
EV air-conditioner	
DCDC	
PTC	
Power distribution boxes	
MECHANICAL	
Durability	> 200 mating cycles
Connection type	Crimping
ELECTRICAL	
Rated voltage	230V AC / 400V DC
Rated current	32A Max @ Ambient temperature 70°C
Insulator resistance	> 2000MΩ
Dielectric withstand voltage	2500V AC
Shielding	Yes
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Temperature range	-40°C to 125°C, short term to 150°C
Inflammability	UL94V0
Salt spray	48h, 96h
MATERIAL	
Shell	Aluminum alloy with zinc, nickel plating and anodic oxidation
Contacts	Copper alloy, silver plating
Insulator	Flame-retardant thermoplastic composition
Sealing	Rubber

RECEPTACLE

P/N: **HVS1S-203FC** (socket) / **HVS1S-203MC** (pin)

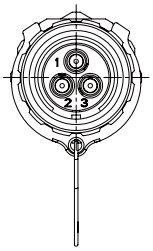


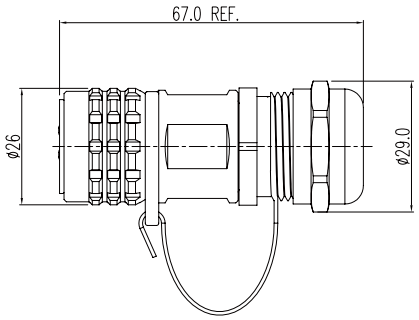


PLUG

P/N: **HVS1P-203MC** (pin) / **HVS1P-203FC** (socket)



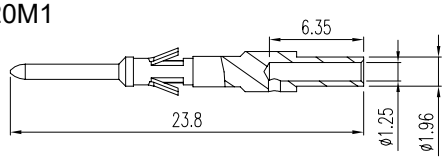




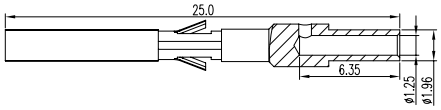
CONTACTS

Notice: HVG series connectors do not include contacts, please order seperately.

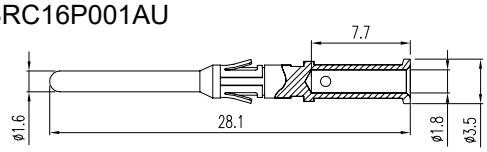
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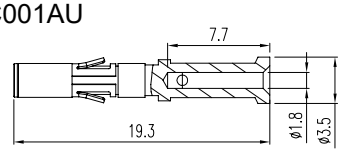
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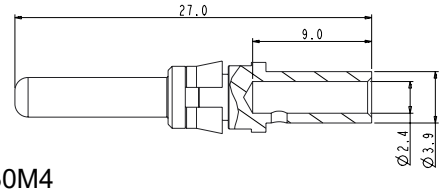
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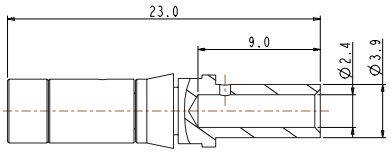
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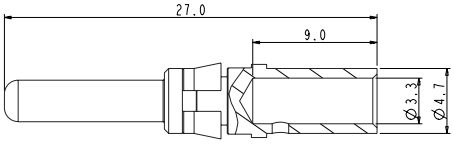
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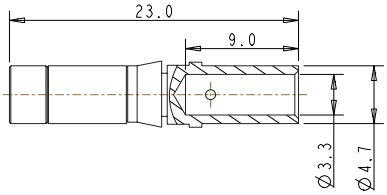
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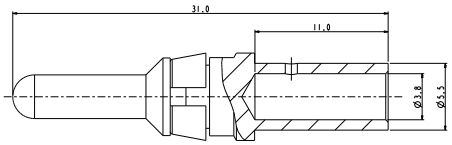
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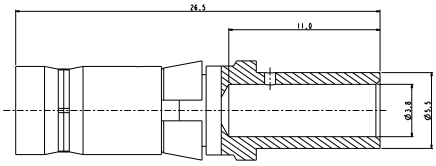
HVG30F4



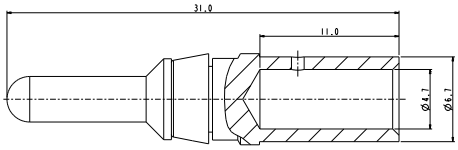
HVG30M6



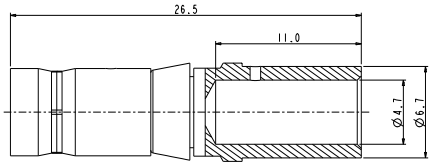
HVG30F6



HVG30M10



HVG30F10

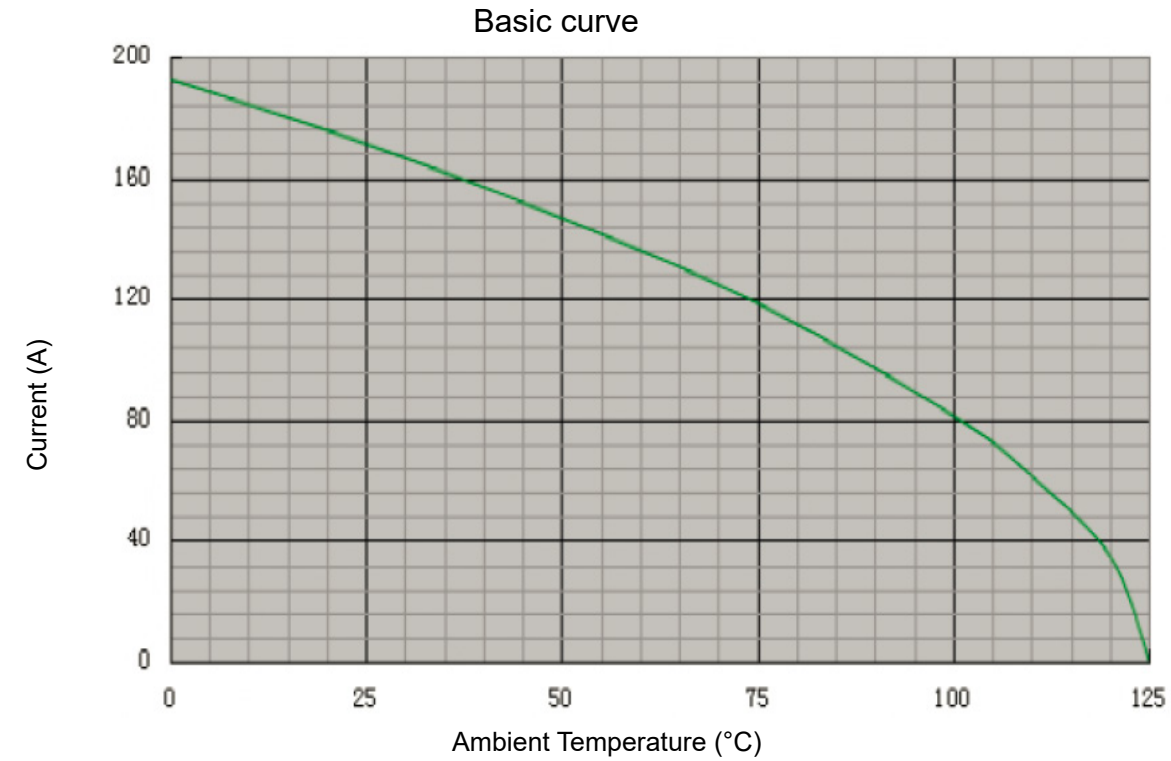


PART NUMBER

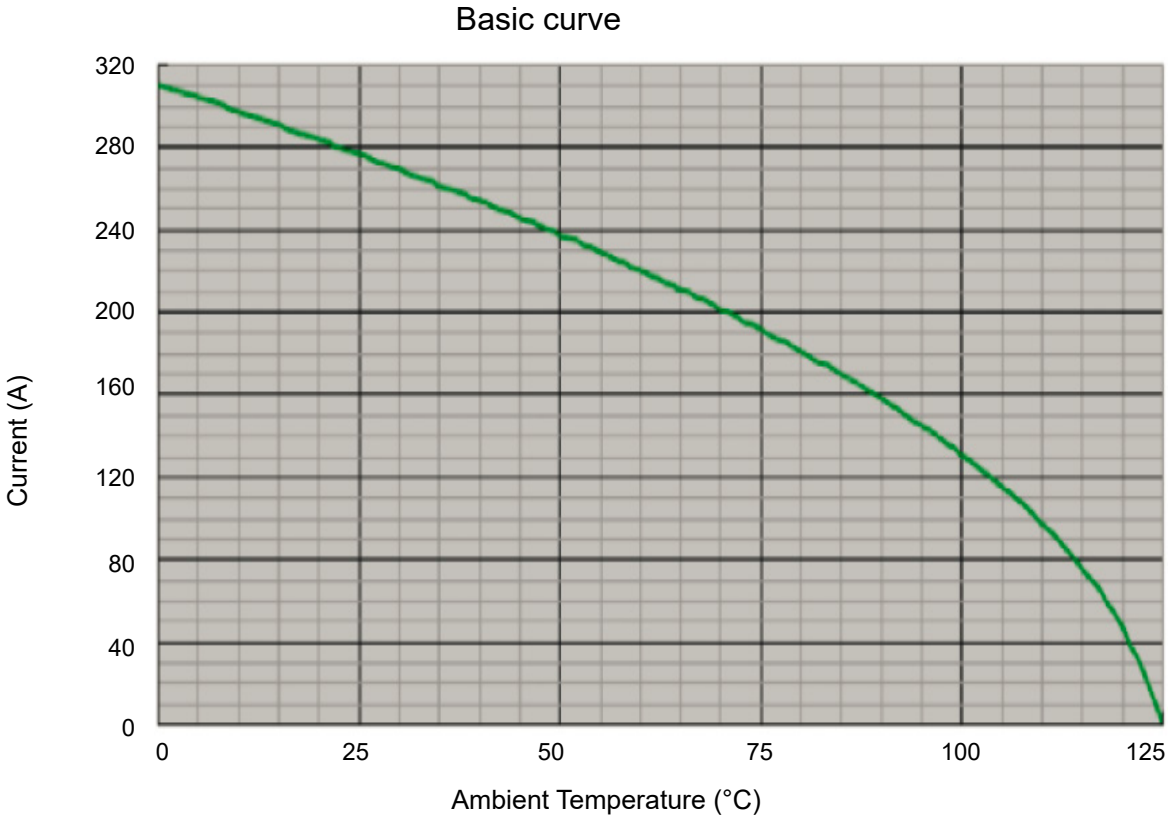
Contact type for connector	Contact size	Part number		Rated Current	For cable section	Extraction tool
		Pin	Socket			
Signal: HVG402/403/492	1.0mm	HVG20M1	HVG20F1	7.5A max	0.5 to 1.0 mm^2	HV-TOOL-10R
Signal: HVG404/406	1.6mm	ASRC16PC001AU	ASRC16SC001AU	13A max	0.75 to 1.5 mm^2	ASGTC-R-16S
Power: HVS, HVG402/403/404/406	3.0mm	HVG30M2	HVG30F2 / HVG30FS2	23A max	2.5 mm^2	HV-TOOL-30R
Power: HVS HVG402/403/404/406	3.0mm	HVG30M4	HVG30F4 / HVG30FS4	40A max	4.0 mm^2	HV-TOOL-30R
Power: HVG492	3.6mm	HVG30M6	HVG30F6	50A max	6.0 mm^2	HV-TOOL-36R
		HVG30M10	HVG30F10		10.0 mm^2	
Signal: EX SERIES	1.6mm	EX16M1	EX16F1	7.5A max	0.75 to 1.5 mm^2	ASGTC-R-16S
	3.0mm	EX30M4	-	32A max	2.5 to 4.0 mm^2	HV-TOOL-30R
	3.0mm	EX30M6	-	40A max	6.0 mm^2	HV-TOOL-30R
Power: EX SERIES	3.0mm	-	EX30F4	32A max	2.5 to 4.0 mm^2	EX-TOOL-30R
	3.0mm	-	EX30F6	40A max	6.0 mm^2	EX-TOOL-30R

TEMPERATURE RISE CURVE

HVBI R6 (25mm^2)

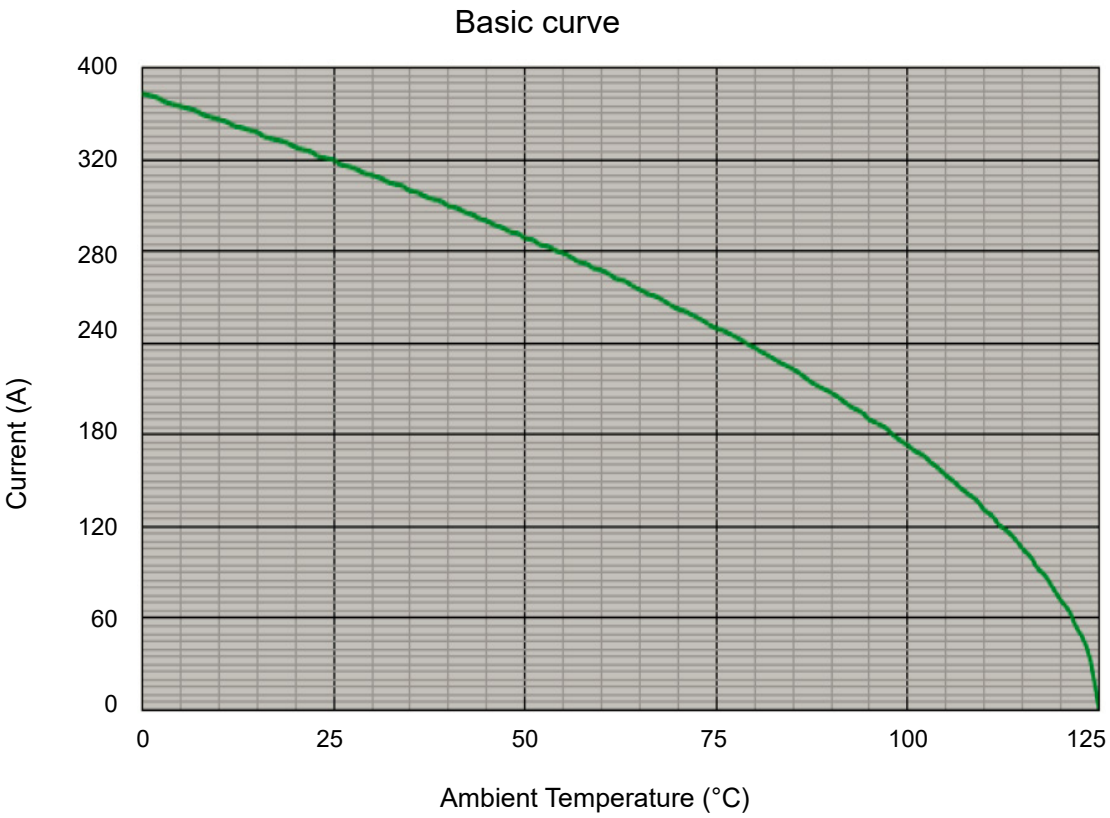


HVBI R8 (50mm^2)



TEMPERATURE RISE CURVE

HVBI R10 (70mm^2)



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