



AMPHENOL PCD



# EXCEL | MATE

## HVSL Series

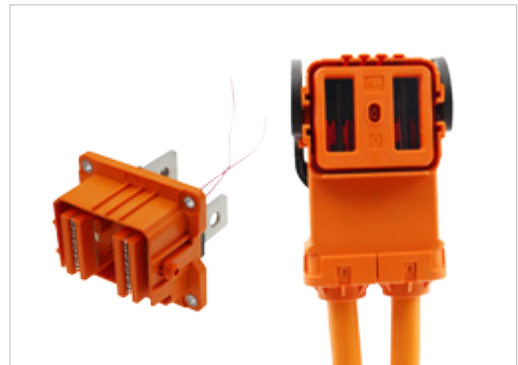
Ref. No: HVSL-ALL-0426

[www.amphenolpcd.com.cn](http://www.amphenolpcd.com.cn)

HIGHPOWER @ AMPHENOL  
TRUSTED GLOBALLY

# TABLE OF CONTENT

<b>EXCEL   MATE PRODUCT INTRODUCTION</b> .....	3	<b>HVSL635B</b> .....	98
<b>EXCEL   MATE Max (HVSL1400)</b> .....	4	HOW TO ORDER: HVSL635B .....	102
HOW TO ORDER: HVSL1400 .....	8	CHARTS: HVSL635B .....	102
<b>EXCEL   MATE Max (HVSL1200)</b> .....	9	<b>HVSL280</b> .....	103
HOW TO ORDER: HVSL1200 .....	14	HOW TO ORDER: HVSL280 .....	107
CHARTS: HVSL1200 .....	15	CHARTS: HVSL280 .....	108
<b>EXCEL   MATE Plus (HVSLP1200)</b> .....	16	<b>HVSL282</b> .....	109
HOW TO ORDER: HVSLP1200 .....	18	HOW TO ORDER: HVSL282 (plug) .....	121
<b>EXCEL   MATE Plus (HVSL1000)</b> .....	19	HOW TO ORDER: HVSL282 (receptacles) .....	122
HOW TO ORDER: HVSL1000 .....	36	CHARTS: HVSL282 .....	123
CHARTS: HVSL1000 .....	37	<b>HVSL362</b> .....	124
<b>EXCEL   MATE Plus (HVSLP1000)</b> .....	38	HOW TO ORDER: HVSL362 .....	129
HOW TO ORDER: HVSLP1000 .....	43	<b>HVSL362 Multicore</b> .....	130
<b>EXCEL   MATE S (HVSL800)</b> .....	44	HOW TO ORDER: HVSL362 Multicore .....	131
HOW TO ORDER: HVSL800 .....	53	CHARTS: HVSL362 .....	132
CHARTS: HVSL800 .....	54	<b>HVSL364</b> .....	133
<b>EXCEL   MATE S (HVSLP800)</b> .....	55	HOW TO ORDER: HVSL364 .....	139
HOW TO ORDER: HVSLP800 .....	59	<b>HVSL364 Multicore</b> .....	141
<b>HVPC 800</b> .....	60	HOW TO ORDER: HVSL364 Multicore .....	142
HOW TO ORDER: HVPC800 .....	62	<b>HVSL365</b> .....	143
<b>HVPC 18</b> .....	63	HOW TO ORDER: HVSL365 .....	147
HOW TO ORDER: HVPC18 .....	65	<b>HVSL366</b> .....	148
<b>HVSLF 10</b> .....	66	HOW TO ORDER: HVSL366 .....	152
HOW TO ORDER: HVSLF10 .....	69	<b>EXCEL   MATE Metal (HVSLS600)</b> .....	153
<b>HVSLF 18</b> .....	72	DUMMY PLUGS .....	161
HOW TO ORDER: HVSLF18 .....	72	HOW TO ORDER: HVSLS600 .....	162
<b>HVSLF 300</b> .....	73	CHARTS: HVSLS600 .....	163
HOW TO ORDER: HVSLF300 .....	75	<b>EXCEL   MATE Metal (HVSLS800)</b> .....	164
<b>EXCEL   MATE Eco (HVSL600/630/633/280/282/362-6)</b>		HOW TO ORDER: HVSLS800 .....	169
<b>HVSL600</b> .....	76	<b>EXCEL   MATE Metal (HVSLS8003)</b> .....	170
HOW TO ORDER: HVSL600 .....	80	HOW TO ORDER: HVSLS8003 .....	174
CHARTS: HVSL600 .....	81	<b>EXCEL   MATE PT</b> .....	175
<b>HVSL630</b> .....	82	<b>HVPT B</b> .....	183
HOW TO ORDER: HVSL630 .....	86	<b>HVPT B 2A</b> .....	186
CHARTS: HVSL630 .....	87	<b>HVPC</b> .....	187
<b>HVSL633</b> .....	88	<b>HVPT M</b> .....	190
HOW TO ORDER: HVSL633 .....	96	<b>HVPT BM</b> .....	194
CHARTS: HVSL633 .....	97	<b>AUTOLOCK</b> .....	197



When high-performance and increased safety are required in HEV, Amphenol PCD's **EXCEL | MATE** connectors fulfill the challenge.

HVSL Series is designed for various HEV applications, including power and signal interconnect solutions. Different versions are available, from 1 position to 6 positions and a rated current from 20A to 450A.

Product	HVSL 1400	HVSL 1200	HVSLP 1200	HVSL 1000	HVSLP 1000	HVSL F10	HVSL F18	HVSL F300	HVSL 800	HVSLP 800	HVPC 800	HVPC 18	HVSL 800	HVSL 8003	HVSL 600	HVSL 600	HVSL 630	HVSL 633	HVSL 635B	HVSL 280	HVSL 282	HVSL 362	HVSL 364	HVSL 365	HVSL 366
Position	2	2	2	1, 2, 3	2	2	2	2	2, 3	2	2	2	2	2	2, 3	1	2	3	5	3	2	2	3, 4	5	6
Rated Voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	690V	1000V	1000V	1000V	1000V	1000V	1000V
Rated Current	450A	350A	400A	250A	250A	125A	270A	430A	180A	200A	180A	250A	180A	180A	120A	120A	40A	40A	40A	32A	32A	95A	80A	40A	40A
HVIL	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Shielding	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Shell	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Metal	Metal	Metal	Metal	Metal	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
IP67, IP6K9K	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Touch-Proof IP2XB	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Cable size mm <sup>2</sup>	70 to 120	70 to 95	70 to 95	25 to 70	50 to 70	16 to 25	25 to 70	95 to 120	25 to 50	35 to 50	35 to 70	25 to 50	25 to 50	16 to 25 6/8AWG	25	4 to 6	2.5 to 6	2.5 to 6	2.5 to 4	2.5 to 4	2.5 to 4	6 to 16	2.5 to 16	2.5 to 6	2.5 to 6
Cable type shielded wire	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	M	I/M	M	M	M	M	I/M	I/M	I	I

Cable type shielded wire  
**I:** Individually / **M:** Multicore

# EXCEL | MATE Max (HVSL 1400)

## EXCEL | MATE (HVSL1400)



### High Voltage Safety Lock

HVSL1400, which is the latest generation of the EXCEL | MATE series, has been specially designed for use in HEV applications.

The 14mm slotted contacts and an interlock solution ensure a safe and reliable connection.

### KEY FEATURES

With interlock solution

14mm slotted contacts

Sealing, IP67 (mated), IP6K9K

Touch-proof, IP2XB

Multiple coding positions

Ultrasonic welding for 70mm<sup>2</sup> to 120mm<sup>2</sup> wire range (optional)

### APPLICATIONS

HEV Battery

Inverters

Junction boxes

Power distribution boxes

### MECHANICAL

Durability ≥ 50 mating cycles

Wire range 70mm<sup>2</sup> to 120mm<sup>2</sup>

### ELECTRICAL

Rated voltage 1000V DC

Rated current 450A Max @ ambient temperature 70°C

Insulator resistance > 200MΩ

Dielectric withstand voltage 3000V AC

### ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

### STANDARDS

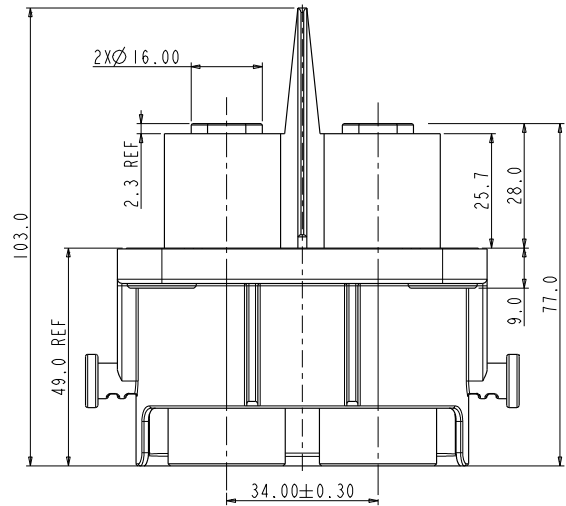
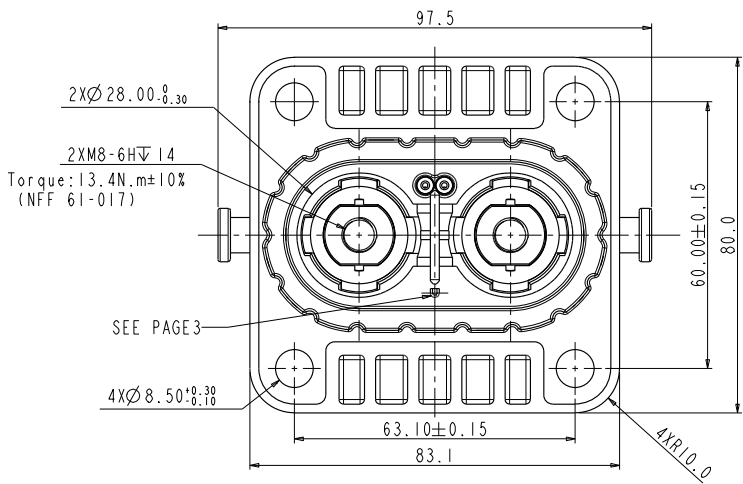
USCAR-2

USCAR-37

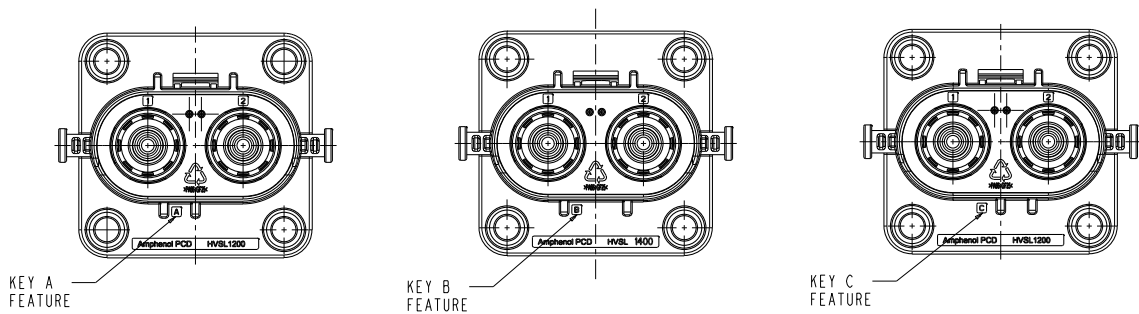
LV-215

RoHS

2 PIN RECEPTACLE BOX MOUNTED

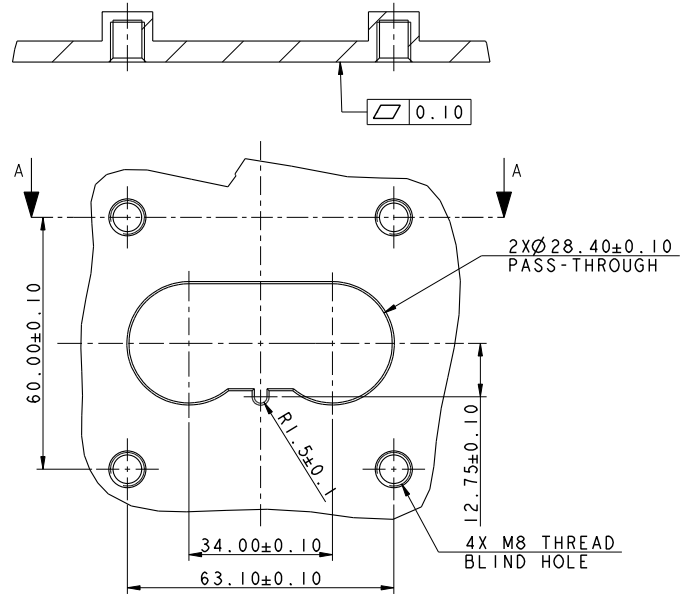


INSERT ORIENTATIONS

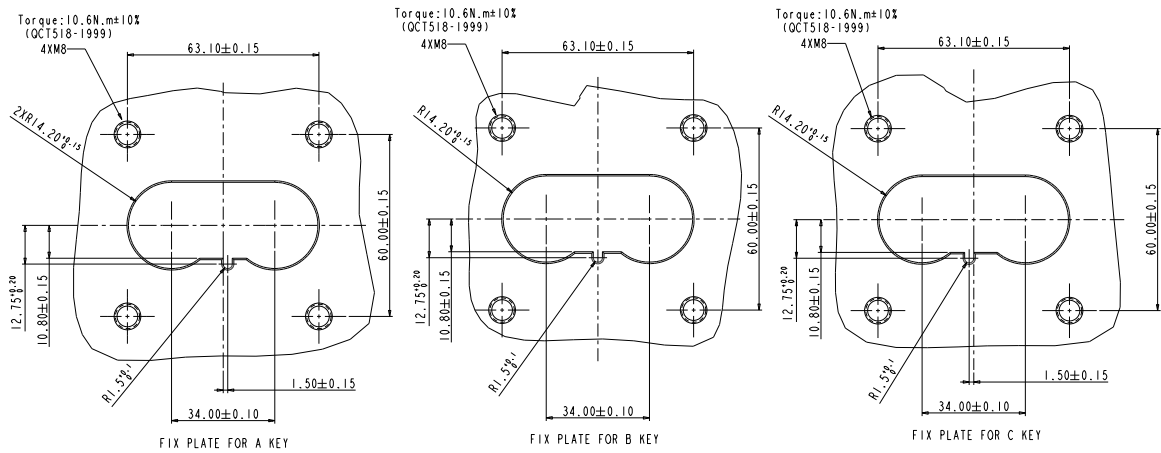


	Coding A	Coding B	Coding C
P/N	HVSL1400 02 2 A X D8S6	HVSL1400 02 2 B X D8S6	HVSL1400 02 2 C X D8S6

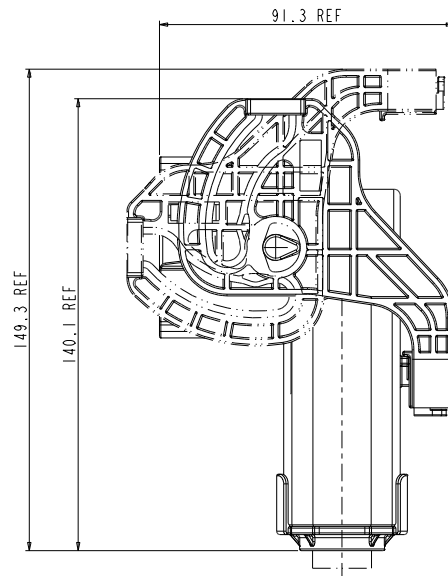
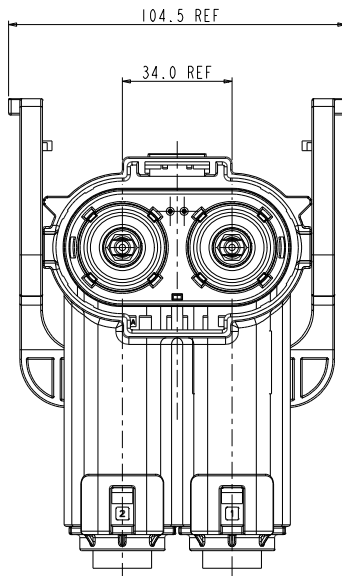
PANEL MOUNTING DIMENSIONS



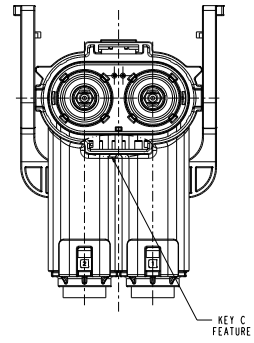
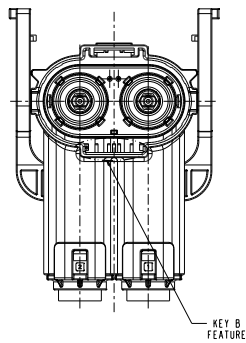
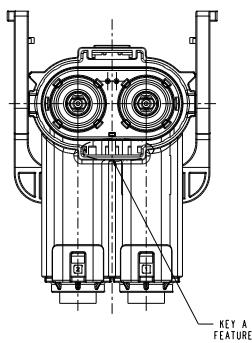
MOUNTING PANEL LAYOUT  
RECOMMENDED THICKNESS 3MM MIN.



2 PIN PLUG RIGHT ANGLE



INSERT ORIENTATIONS



	Coding A	Coding B	Coding C
P/N	HVSL1400 08 2 A XXX	HVSL1400 08 2 B XXX	HVSL1400 08 2 C XXX

# HOW TO ORDER (HVSL 1400)

## HOW TO ORDER: PLUG

	HVSL1400	08	2	A	0	70
<b>Product type:</b>						
<b>08:</b> Right angle plug						
<b>Position:</b>						
<b>2:</b> 2 position						
<b>Coding / Alternate position:</b>						
<b>A:</b> Coding A						
<b>B:</b> Coding B						
<b>C:</b> Coding C						
<b>Interlock:</b>						
<b>0:</b> Without interlock						
<b>1:</b> With interlock						
<b>Cable size:</b>						
<b>70:</b> 70mm <sup>2</sup> cable						
<b>95:</b> 95mm <sup>2</sup> cable						
<b>120:</b> 120mm <sup>2</sup> cable						

## HOW TO ORDER: RECEPTACLE

	HVSL1400	02	2	A	0	D8S6
<b>Product type:</b>						
<b>02:</b> Box mounted receptacle						
<b>Position:</b>						
<b>2:</b> 2 position						
<b>Coding / Alternate position:</b>						
<b>A:</b> Coding A						
<b>B:</b> Coding B						
<b>C:</b> Coding C						
<b>Interlock:</b>						
<b>0:</b> Without interlock						
<b>1:</b> With interlock						
<b>Cable size:</b>						
<b>D8S6:</b> OT terminal						

## EXTRACTION TOOL FOR RECEPTACLE SIGNAL CONTACT

HVIL-contact Extraction tool: HVTOOL11R



## EXCEL | MATE (HVSL1200)



### High Voltage Safety Lock

HVSL1200, which is the latest generation of the EXCEL | MATE series, has been specially designed for use in HEV applications.

The RADSOK® Technology R4 version 12mm and an interlock solution ensure a safe and reliable connection.

### KEY FEATURES

With interlock solution

RADSOK® Technology R4 version 12mm

Sealing, IP67 (mated), IP6K9K

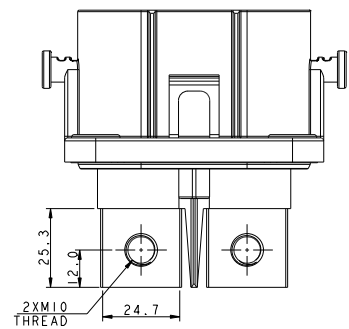
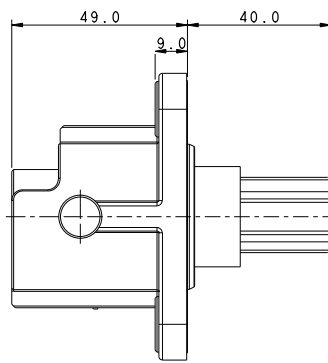
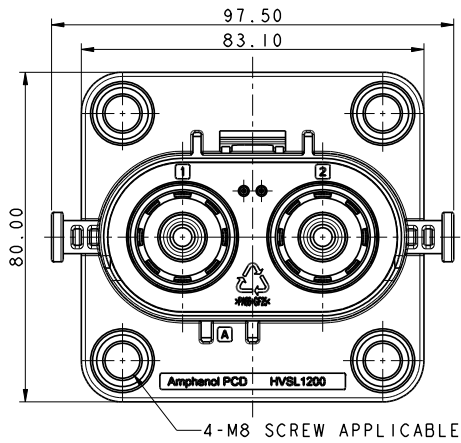
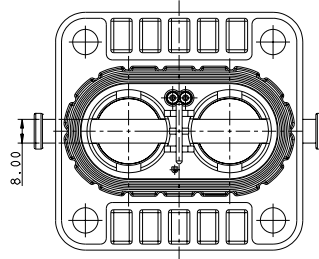
Touch-proof, IP2XB

Multiple coding positions

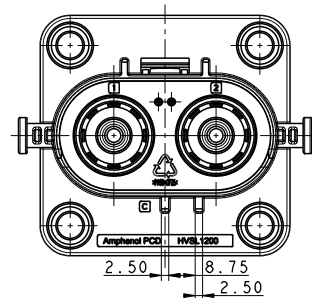
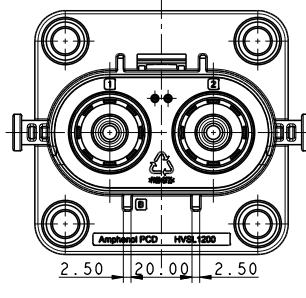
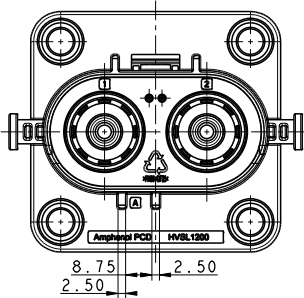
APPLICATIONS	
HEV Battery	
Inverters	
Junction boxes	
Power distribution boxes	
MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	70mm <sup>2</sup> to 95mm <sup>2</sup>
ELECTRICAL	
Rated voltage	1000V DC
Rated current	350A Max @ ambient temperature 70°C
Insulator resistance	> 200MΩ
Dielectric withstand voltage	3000V AC
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	

# Excel|Mate Max (HVSL 1200)

## 2 PIN RECEPTACLE BOX MOUNTED



## INSERT ORIENTATIONS

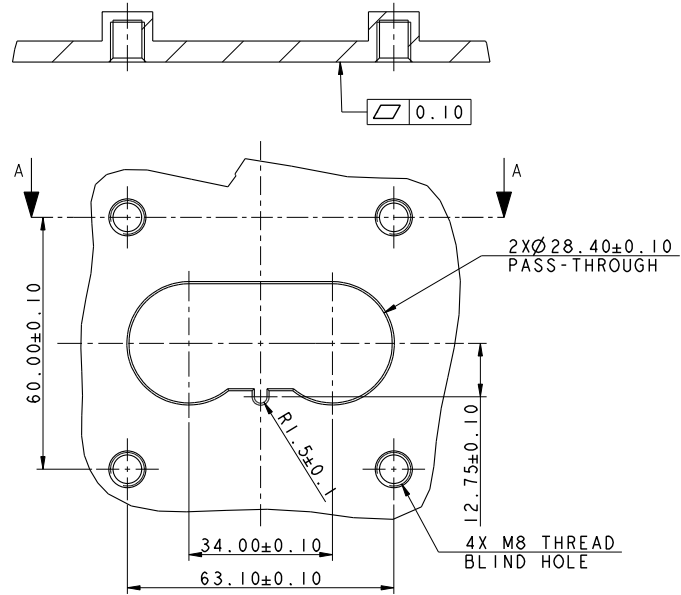


Coding A  
P/N HVSL1200 02 2 A

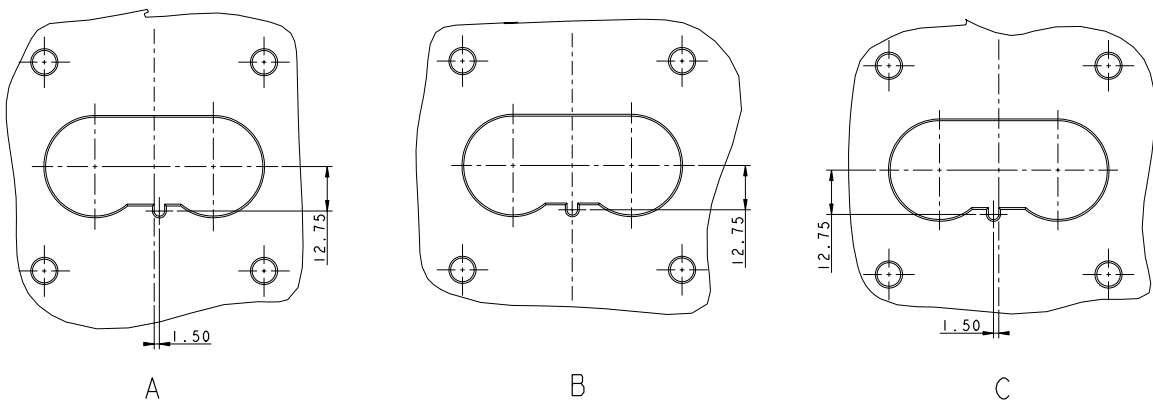
Coding B  
P/N HVSL1200 02 2 B

Coding C  
P/N HVSL1200 02 2 C

PANEL MOUNTING DIMENSIONS

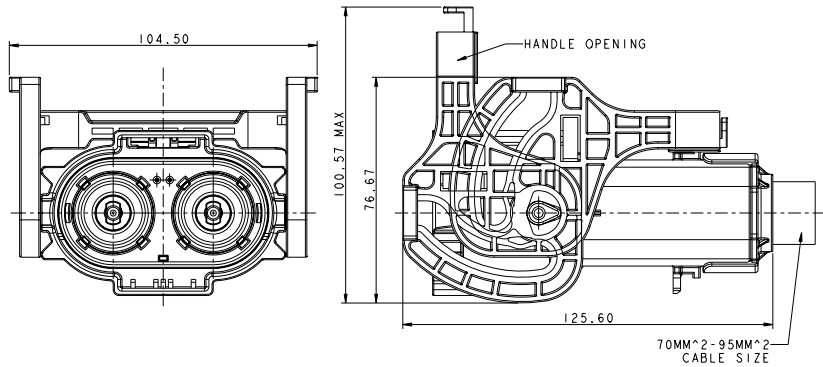


MOUNTING PANEL LAYOUT  
RECOMMENDED THICKNESS 3MM MIN.

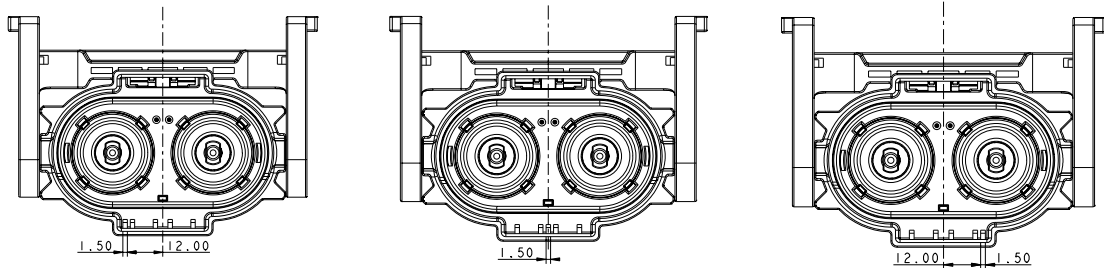


# ExcelMate Max (HVSL 1200)

## 2 PIN PLUG

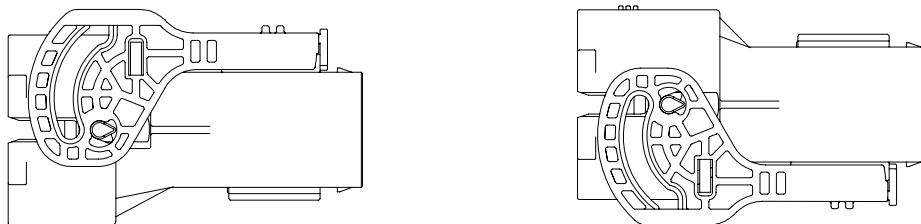


## INSERT ORIENTATIONS



	Coding A	Coding B	Coding C
P/N	HVSL1200 06 2 A	HVSL1200 06 2 B	HVSL1200 06 2 C

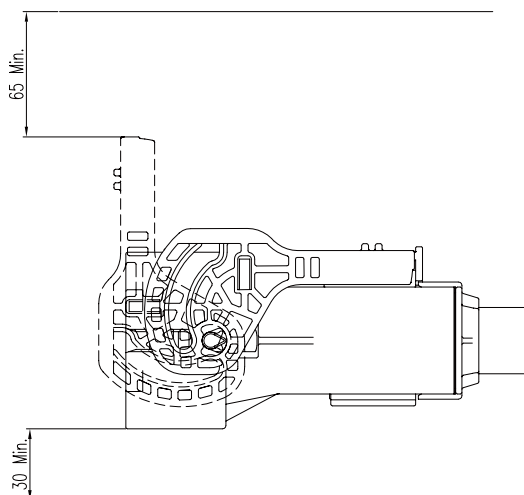
## LEVER POSITION



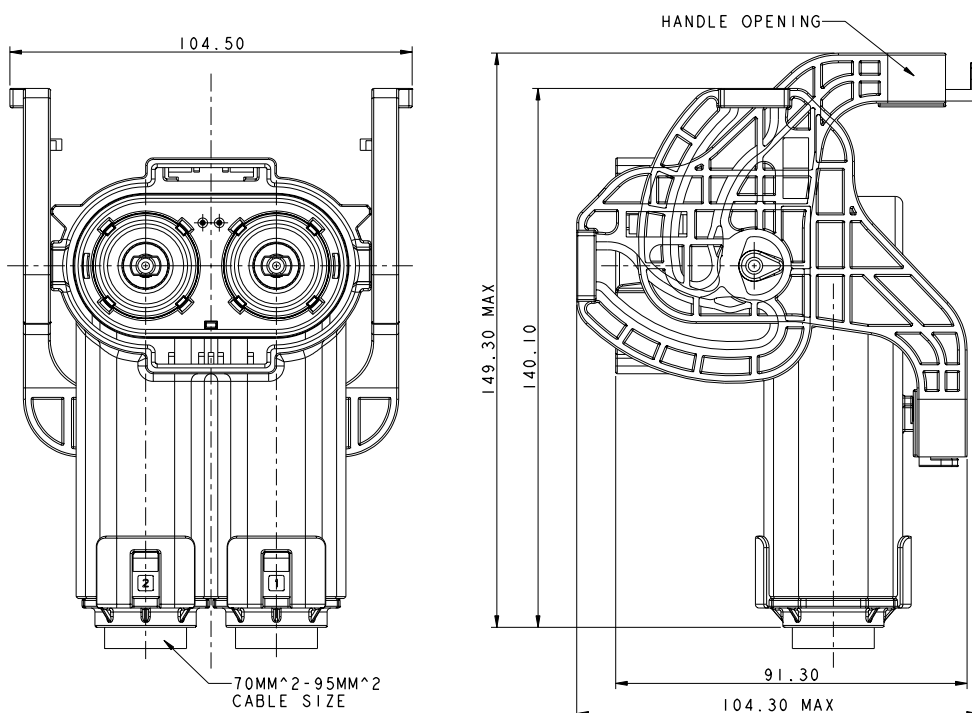
STANDARD LEVER

REVERSE LEVER

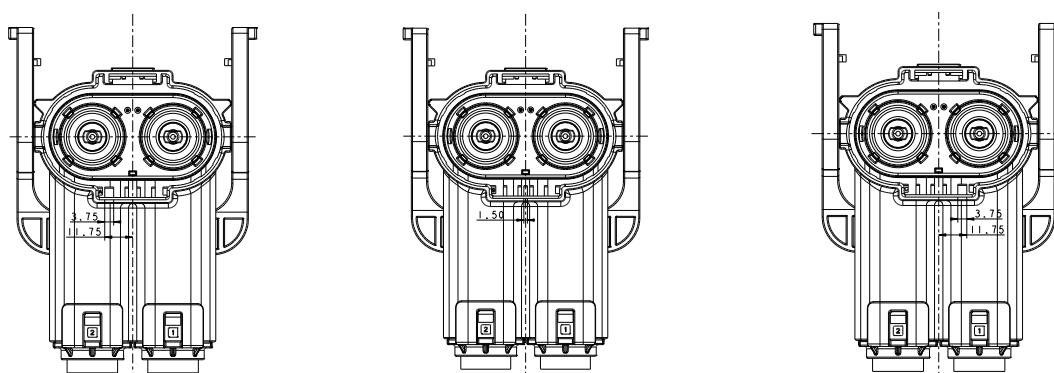
## INSTALLATION CLEARANCE



2 PIN PLUG RIGHT ANGLE



INSERT ORIENTATIONS



	Coding A	Coding B	Coding C
P/N	HVSL1200 08 2 A	HVSL1200 08 2 B	HVSL1200 08 2 C

# HOW TO ORDER (HVSL 1200)

## HOW TO ORDER: PLUG

	HVSL1200	06	2	A	0	70
<b>Product type:</b>						
06: Straight plug						
08: Right angle plug						
<b>Position:</b>						
2: 2 position						
<b>Coding / Alternate position:</b>						
A: Coding A						
B: Coding B						
C: Coding C						
<b>Interlock:</b>						
0: Without interlock						
1: With interlock						
<b>Cable size:</b>						
70: 70mm <sup>2</sup> cable						
95: 95mm <sup>2</sup> cable						

## HOW TO ORDER: RECEPTACLE

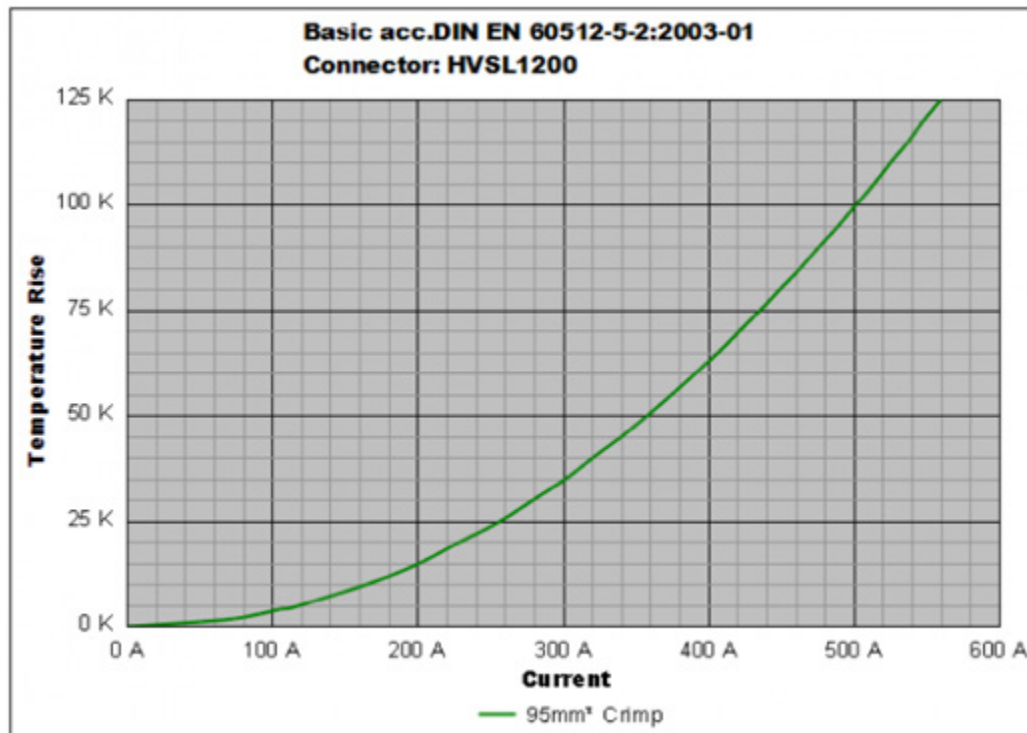
	HVSL1200	02	2	A	0	H10
<b>Product type:</b>						
02: Box mounted receptacle						
<b>Position:</b>						
2: 2 position						
<b>Coding / Alternate position:</b>						
A: Coding A						
B: Coding B						
C: Coding C						
<b>Interlock:</b>						
0: Without interlock						
1: With interlock						
<b>Cable size:</b>						
H10: OT terminal						

## EXTRACTION TOOL FOR RECEPTACLE SIGNAL CONTACT

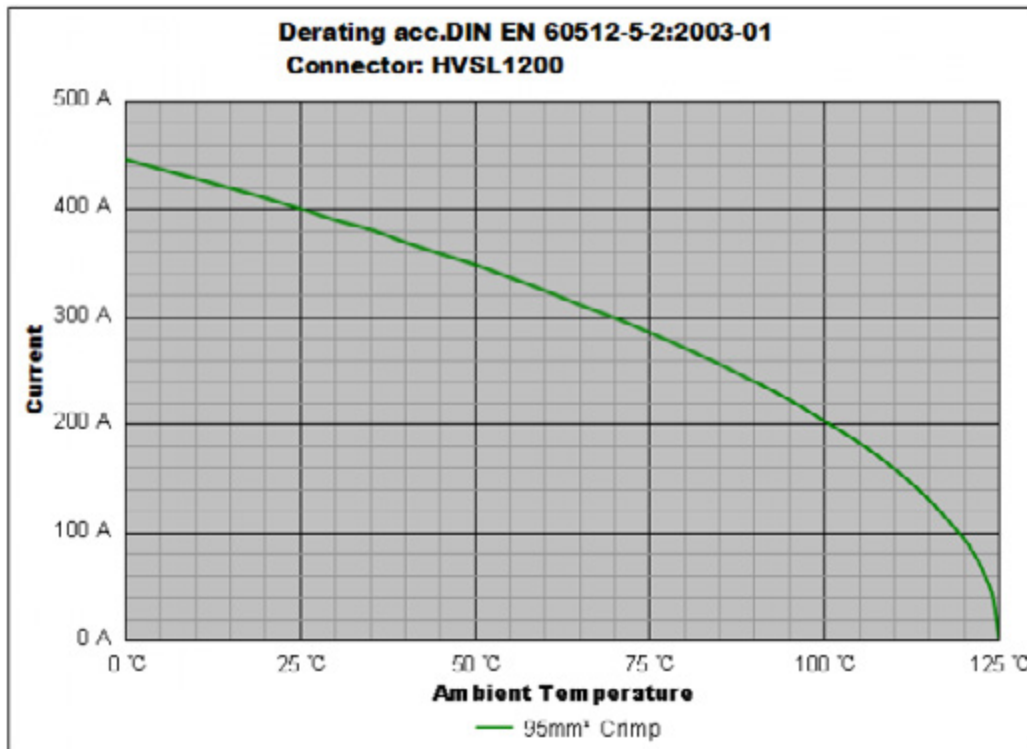
HVIL-contact Extraction tool: HVTOOL11R



## HVSL 1200 | Temperature Rise



## HVSL 1200 | Derating Curve



Remark: tests carried out on the complete connector.

# Excel|Mate Plus (HVSL P 1200)

EXCEL | MATE Plus (P 1200)



## High Voltage Safety Lock

EXCEL | MATE Plus (P 1200) offers a max rated voltage up to 1000V and a max rated current of 400A. It can be used for power solutions in various HEV applications.

External HVIL.

## KEY FEATURES

With interlock solution

Sealing, IP67 (mated), IP6K9K

2-position available

Touch-proof, IP2XB

Multiple coding positions

## APPLICATIONS

HEV Battery

Inverters

Junction boxes

Power distribution boxes

## MECHANICAL

Durability  $\geq 50$  mating cycles

Wire range 70 to 95 mm<sup>2</sup>

## ELECTRICAL

Rated voltage 1000V DC

Rated current  
70mm<sup>2</sup> shield cable:  
300A Max @ ambient  
temperature 70°C

95mm<sup>2</sup> shield cable:  
400A Max @ ambient  
temperature 70°C

Insulator resistance  $> 200\text{M}\Omega$

Dielectric withstand  
voltage 3000V AC

## ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

## STANDARDS

USCAR-2

USCAR-37

LV-215

RoHS & REACH

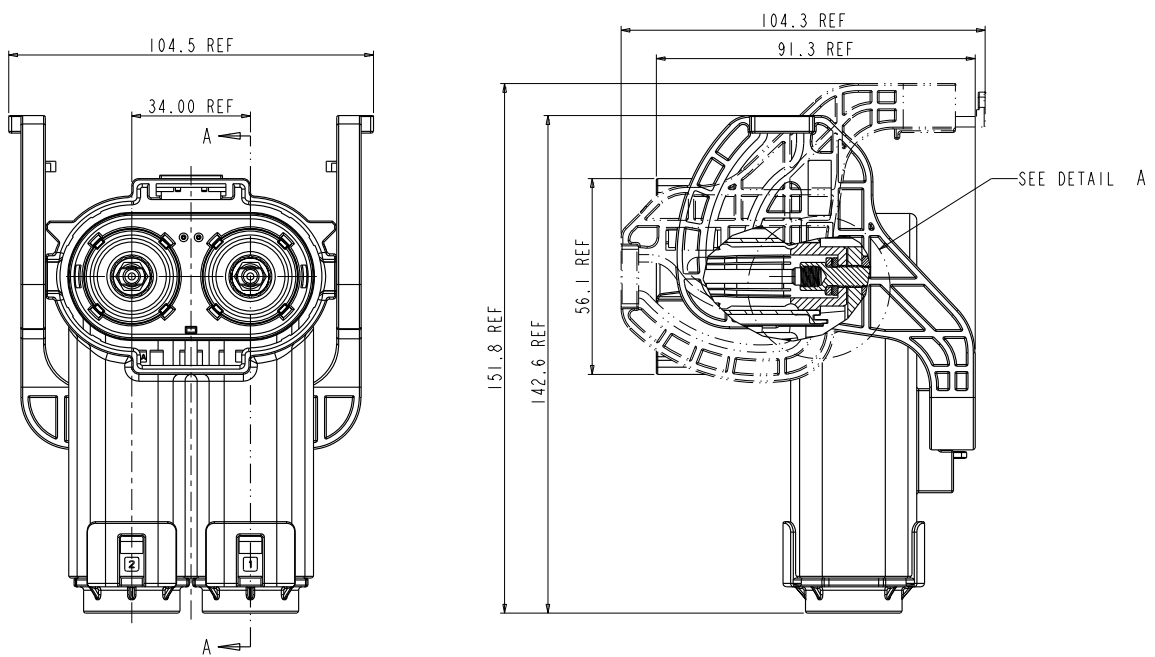
## MATERIAL

Contacts Copper alloy with silver plating

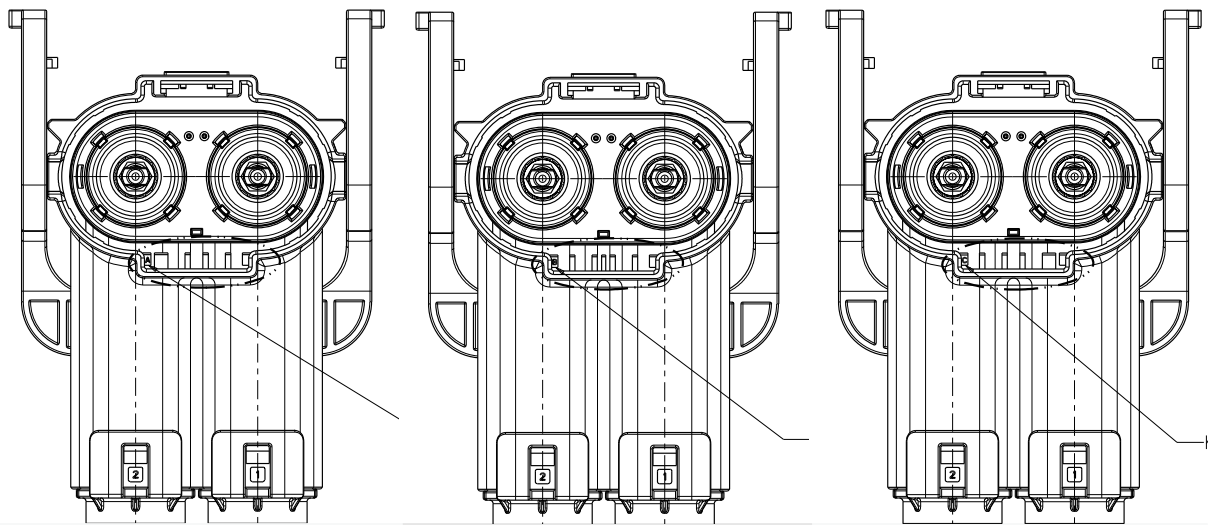
Housing PA66 + GF

Seal SR

2 PIN RIGHT ANGLE PLUG



INSERT ORIENTATIONS



Coding A

Coding B

Coding C

P/N

HVSL P 1200 08 2 A

HVSL P 1200 08 2 B

HVSL P 1200 08 2 C

HOW TO ORDER: PLUG

	HVSLP1200	08	2	A	0	70
<b>Product type:</b>						
08: Right angle plug						
<b>Position:</b>						
2: 2-position						
<b>Coding / Alternate position:</b>						
A: Coding A						
B: Coding B						
C: Coding C						
<b>Interlock:</b>						
0: Without interlock   1: With interlock						
<b>Cable size:</b>						
70: 70mm <sup>2</sup>   95: 95mm <sup>2</sup>						

## EXCEL | MATE Plus



### High Voltage Safety Lock

EXCEL | MATE Plus offers a max rated voltage up to 1000V and a max rated current of 250A. It can be used for power solutions in various HEV applications.

External HVIL for 1 position and internal HVIL for 2 to 3 positions.

### KEY FEATURES

With interlock solution

RADSOK® Technology R4 version  
10mm

AK compliance LV215

Sealing, IP67 (mated), IP6K9K

1 to 3 positions available

Touch-proof, IP2XB

Multiple coding positions

### APPLICATIONS

HEV Battery

Inverters

Junction boxes

Power distribution boxes

### MECHANICAL

Durability  $\geq 50$  mating cycles

Wire range 25 to 70 mm<sup>2</sup>

### ELECTRICAL

Rated voltage 1000V DC

Rated current 250A Max @ ambient temperature 70°C

Insulator resistance  $> 100M\Omega$

Dielectric withstand voltage 3000V AC

### ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

### STANDARDS

USCAR-2

USCAR-37

LV-215

RoHS & REACH

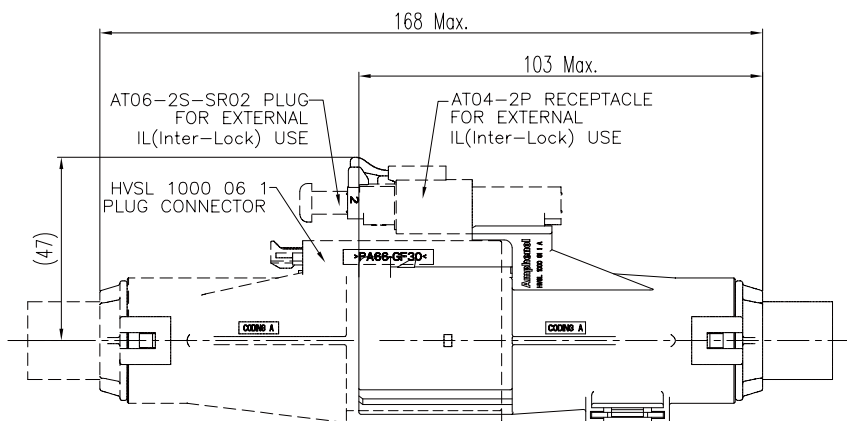
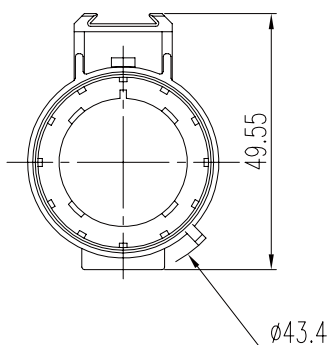
### MATERIAL

Contacts Copper alloy with silver plating

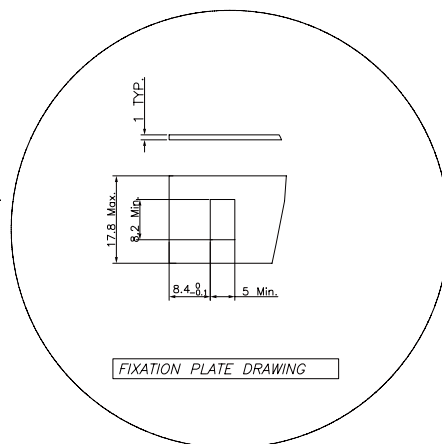
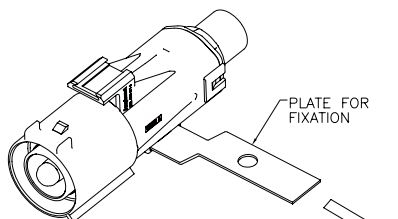
Housing PA66 + GF

Seal SR

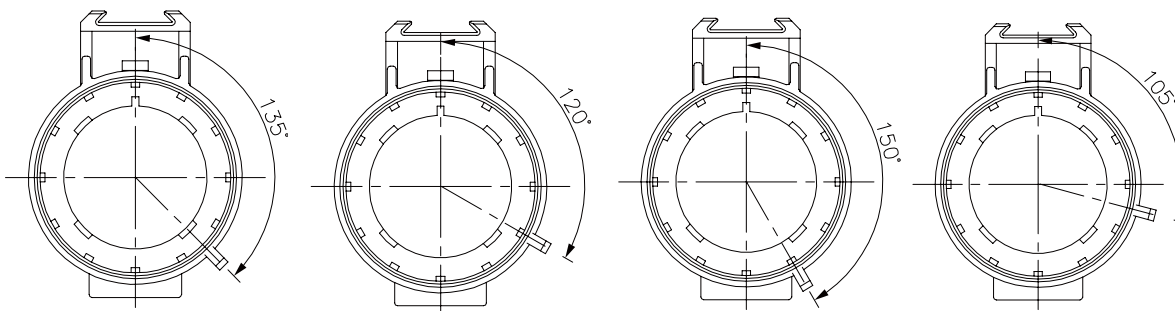
## RECEPTACLE IN-LINE



## MOUNTED GROOVE

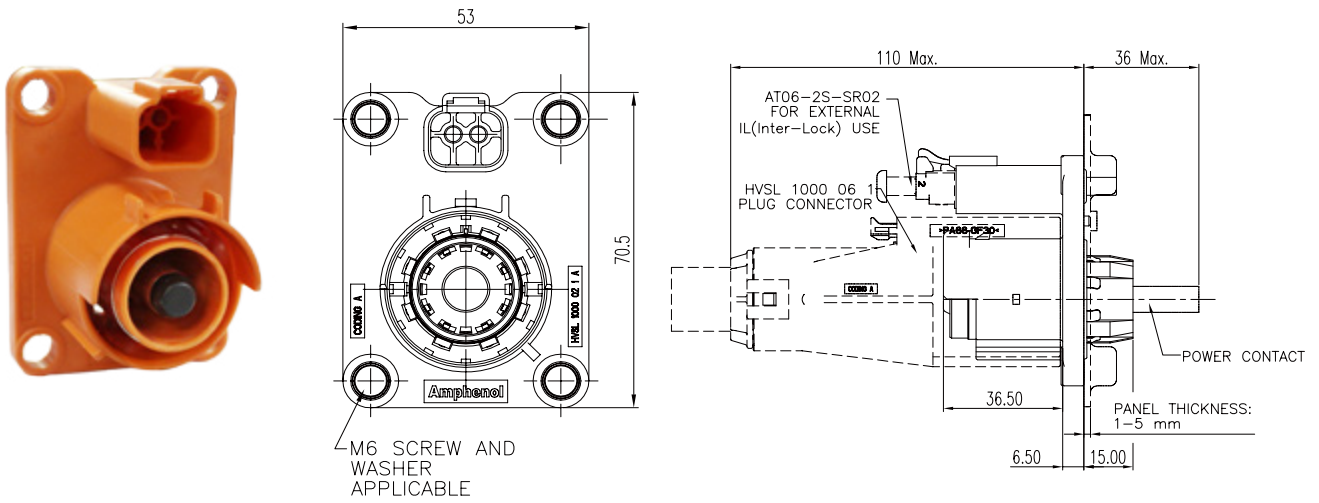


## INSERT ORIENTATIONS

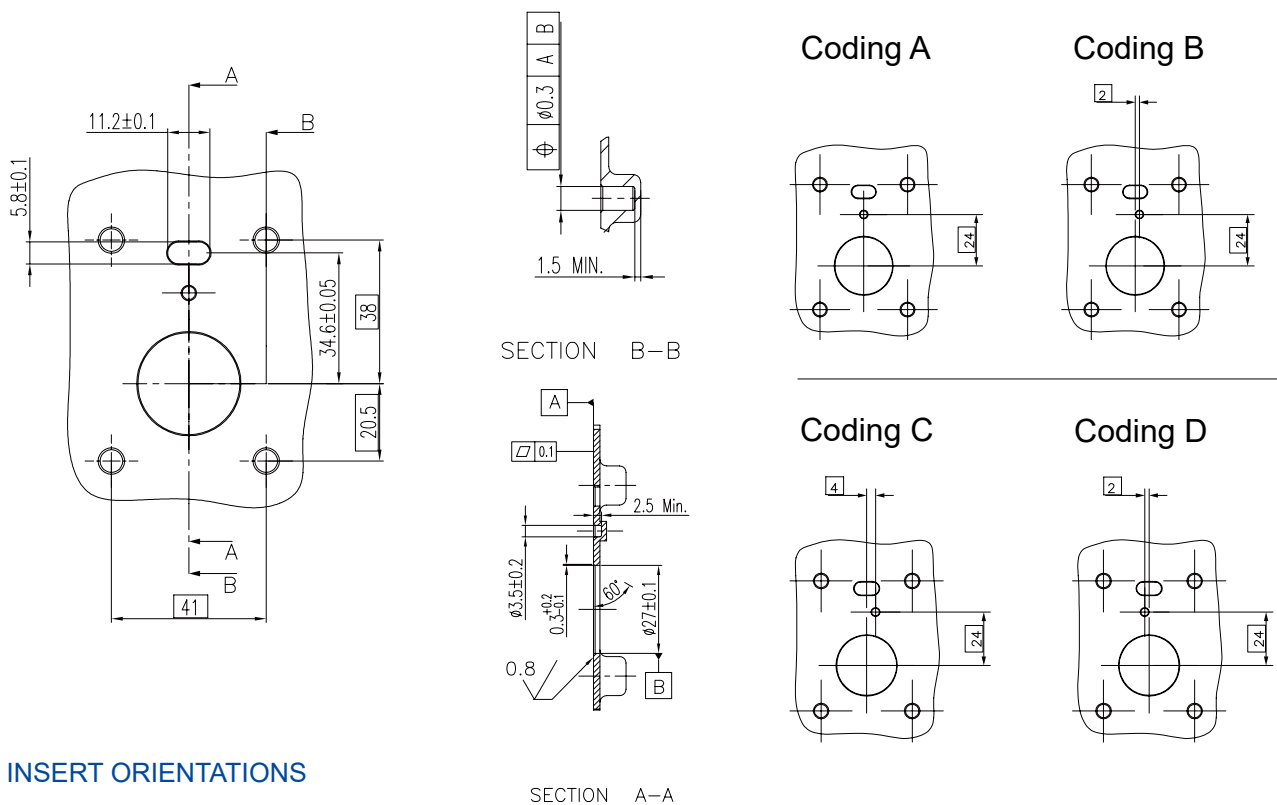


	Coding A	Coding B	Coding C	Coding D
P/N	HVSL1000 01 1 A	HVSL1000 01 1 B	HVSL1000 01 1 C	HVSL1000 01 1 D

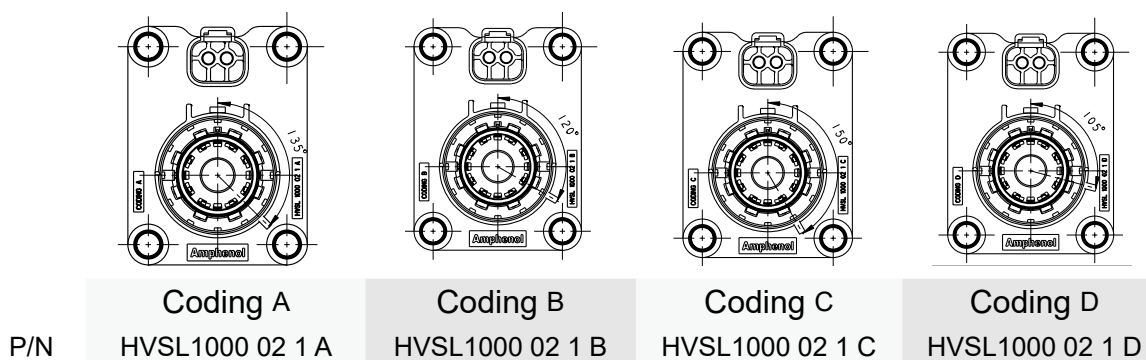
## RECEPTACLE BOX MOUNTED WITH INTERLOCK



## PANEL MOUNTING DIMENSIONS

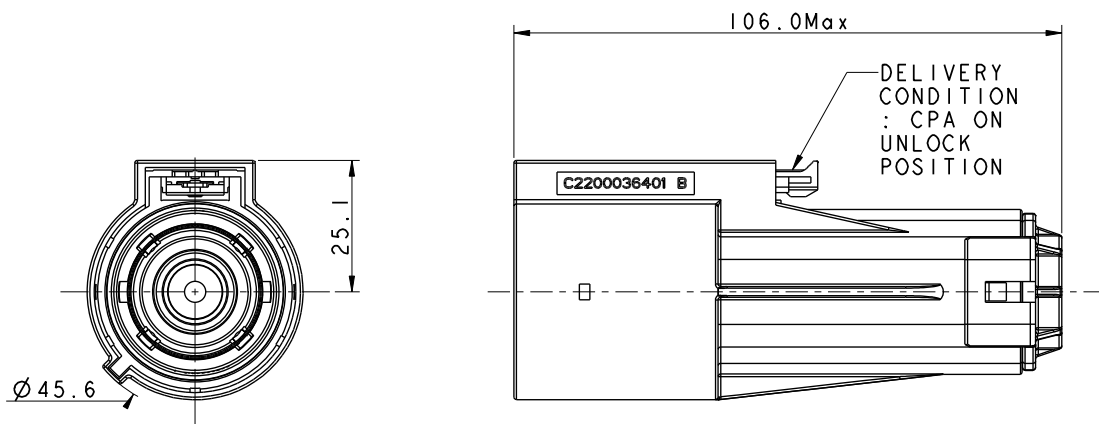


## INSERT ORIENTATIONS

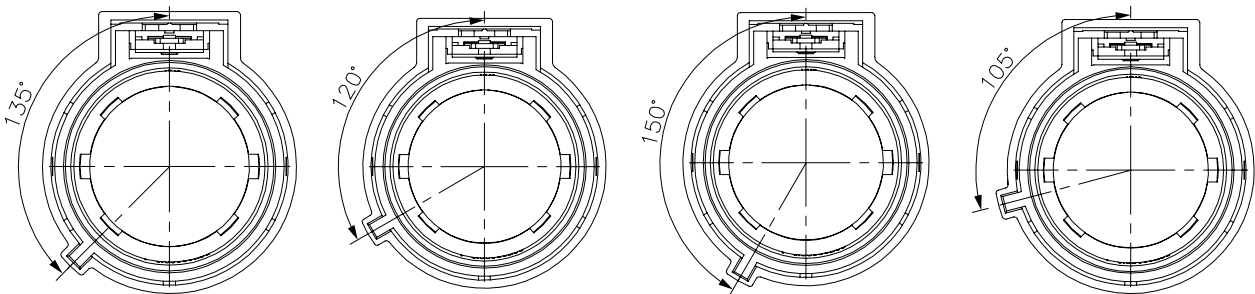


# Excel|Mate Plus (HVSL 1000)

## PLUG

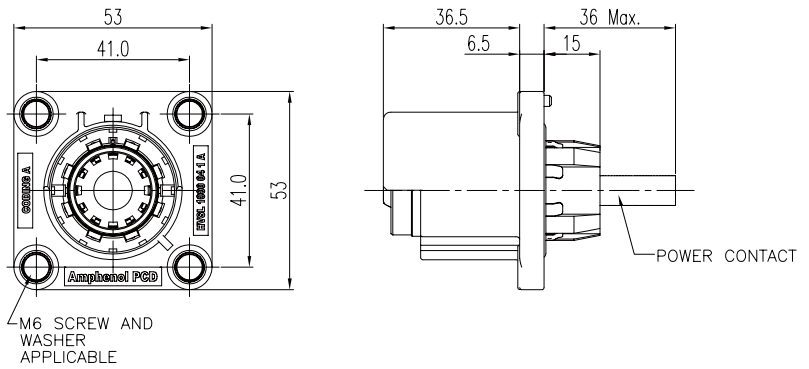


## INSERT ORIENTATIONS

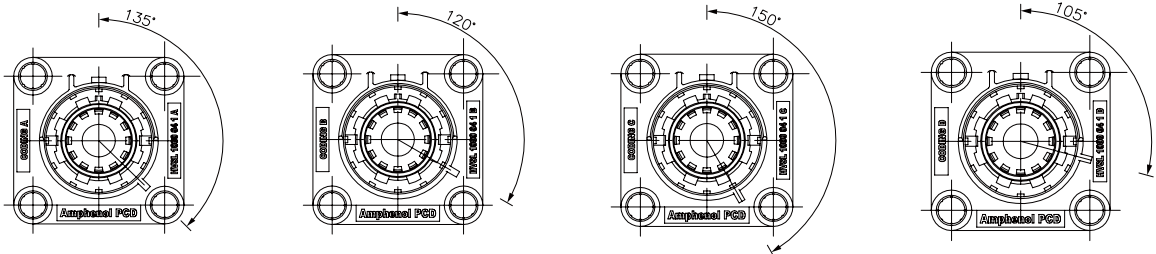


	Coding A	Coding B	Coding C	Coding D
P/N	HVSL1000 06 1 A	HVSL1000 06 1 B	HVSL1000 06 1 C	HVSL1000 06 1 D

## RECEPTACLE BOX MOUNTED **WITHOUT INTERLOCK**

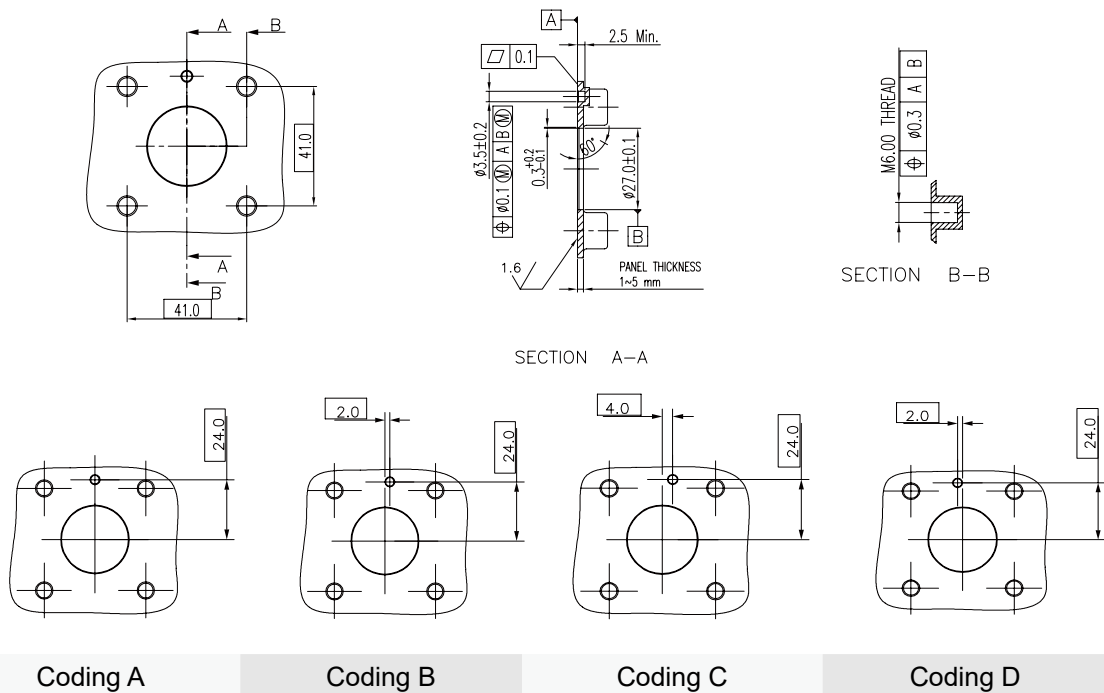


## INSERT ORIENTATIONS



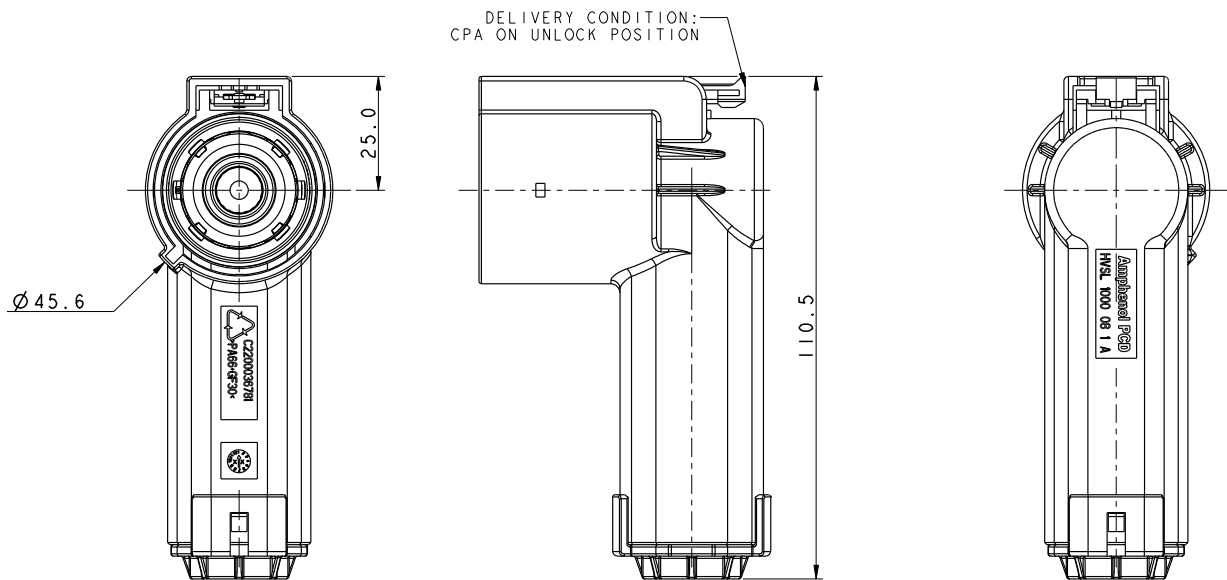
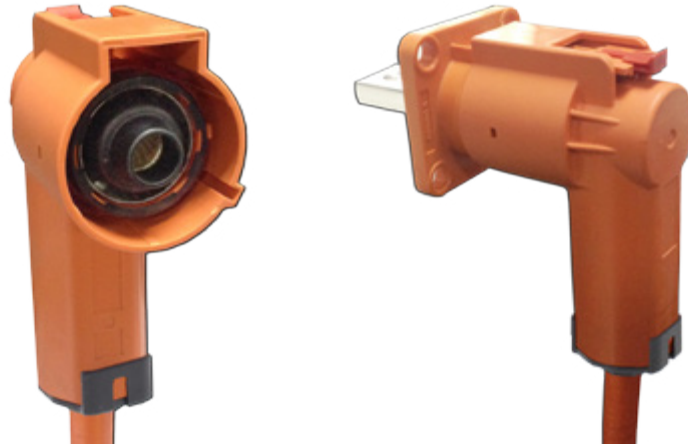
	Coding A	Coding B	Coding C	Coding D
P/N	HVSL1000 04 1 A	HVSL1000 04 1 B	HVSL1000 04 1 C	HVSL1000 04 1 D

## PANEL MOUNTING DIMENSIONS

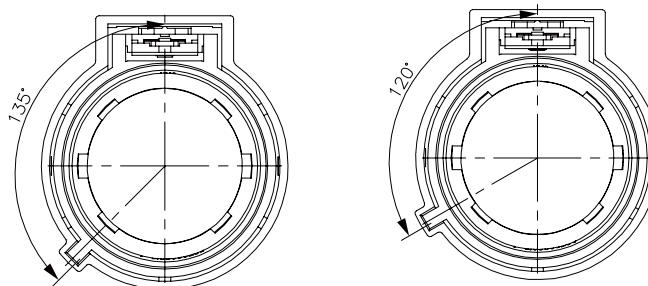


# ExcellMate Plus (HVSL 1000)

## PLUG RIGHT ANGLE

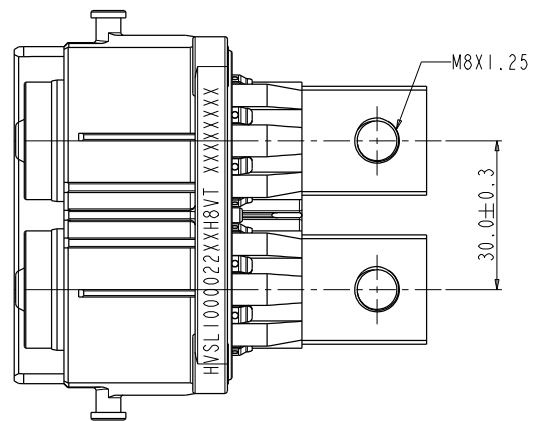
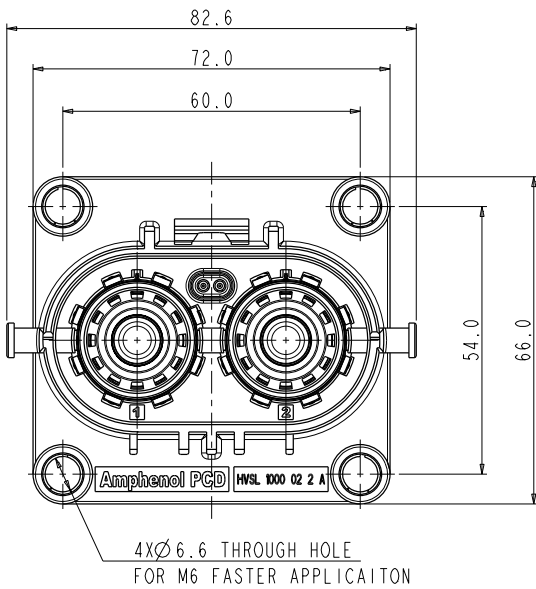
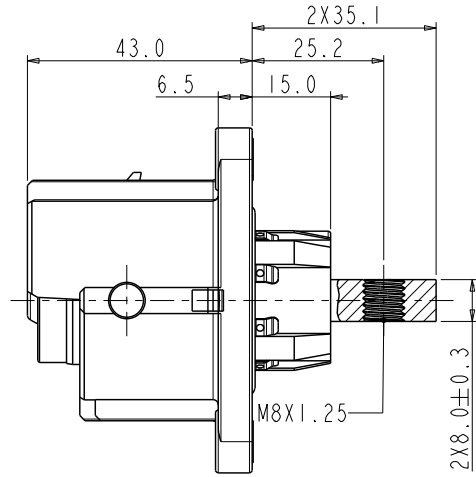


## INSERT ORIENTATIONS

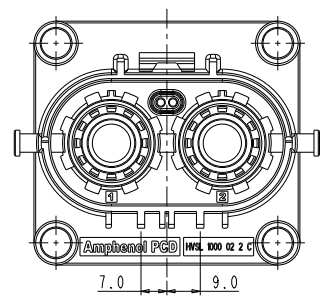
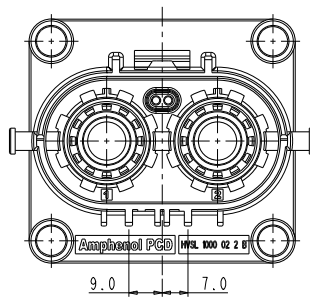
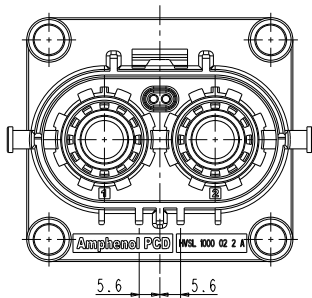


	Coding A	Coding B
P/N	HVSL1000 08 1 A	HVSL1000 08 1 B

2 PIN RECEPTACLE BOX MOUNTED

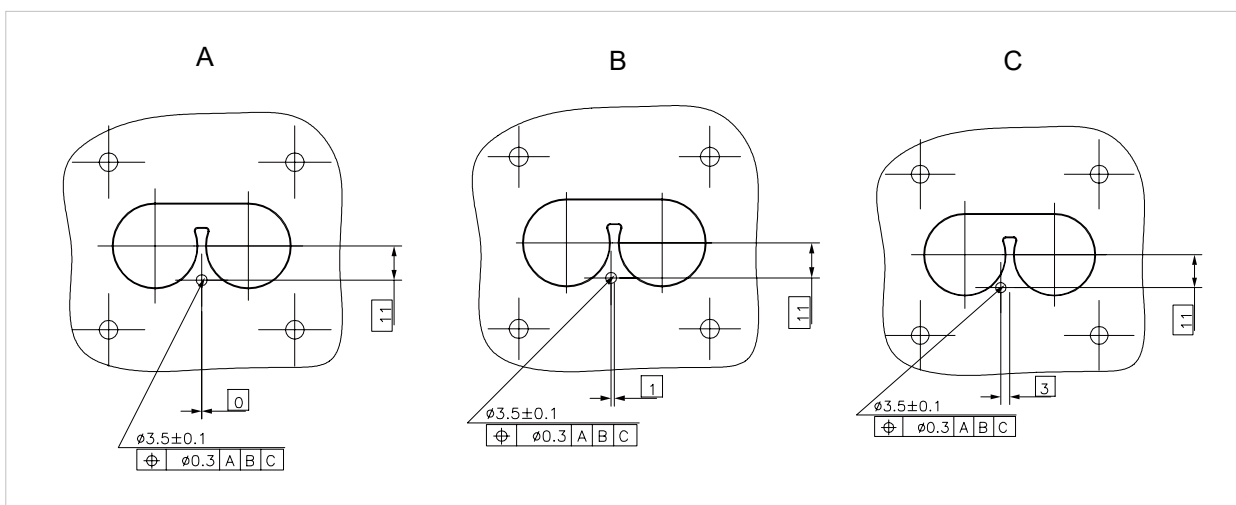
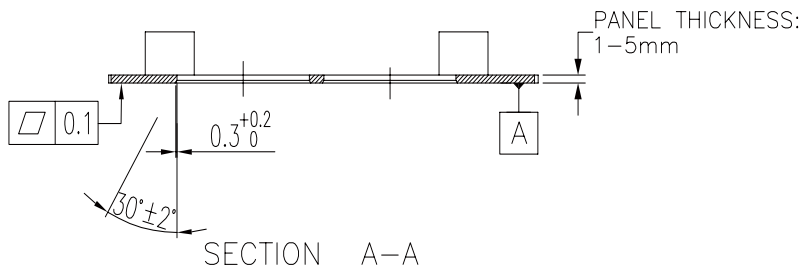
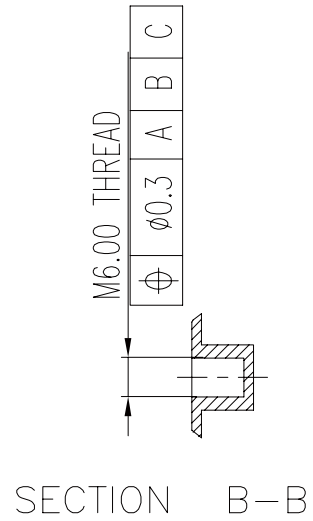
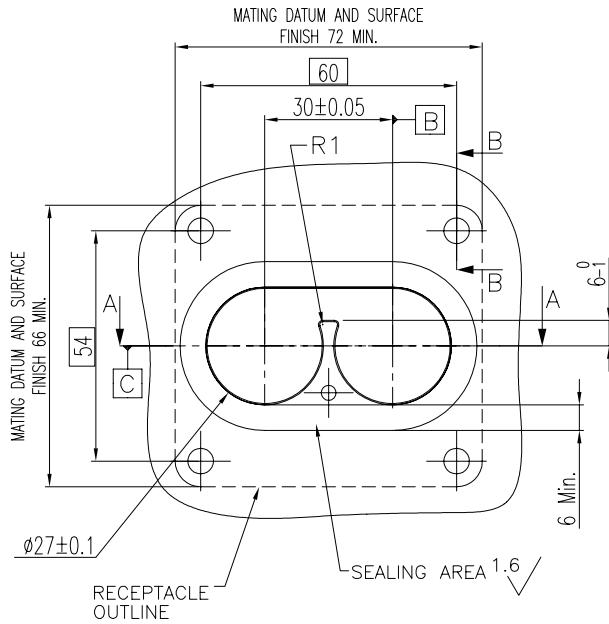


INSERT ORIENTATIONS

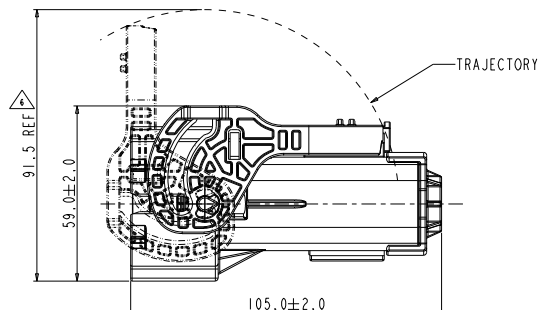
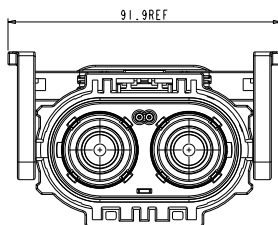


	Coding A	Coding B	Coding C
P/N	HVSL1000 02 2 A	HVSL1000 02 2 B	HVSL1000 02 2 C

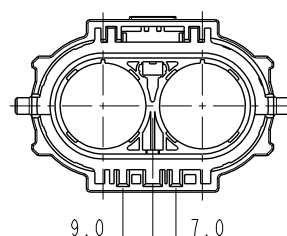
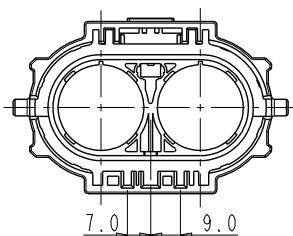
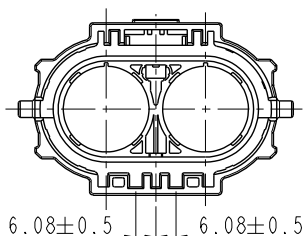
PANEL MOUNTING DIMENSIONS



2 PIN PLUG



INSERT ORIENTATIONS

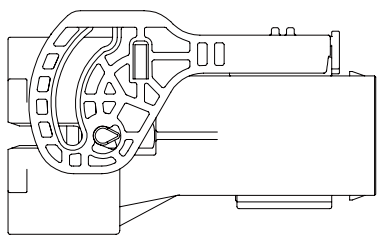


Coding A  
P/N HVSL1000 06 2 A

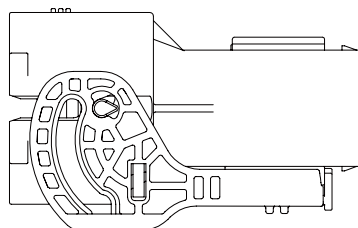
Coding B  
HVSL1000 06 2 B

Coding C  
HVSL1000 06 2 C

LEVER POSITION

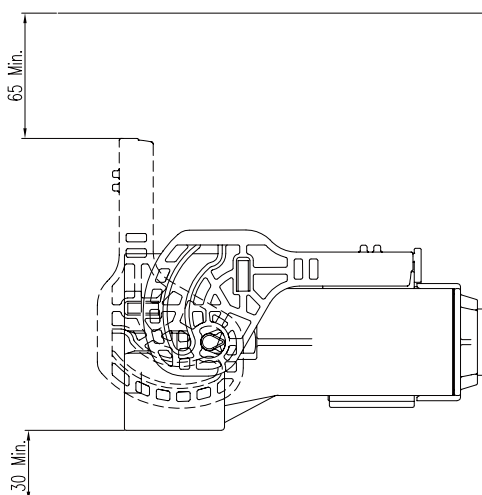


STANDARD LEVER



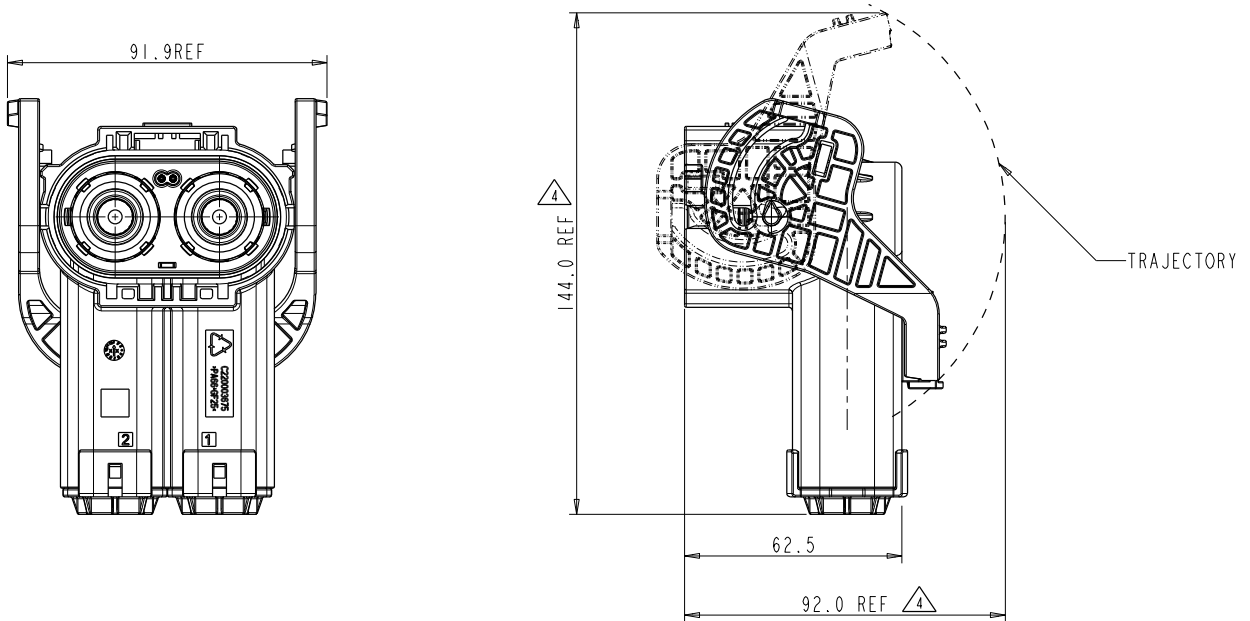
REVERSE LEVER

INSTALLATION CLEARANCE

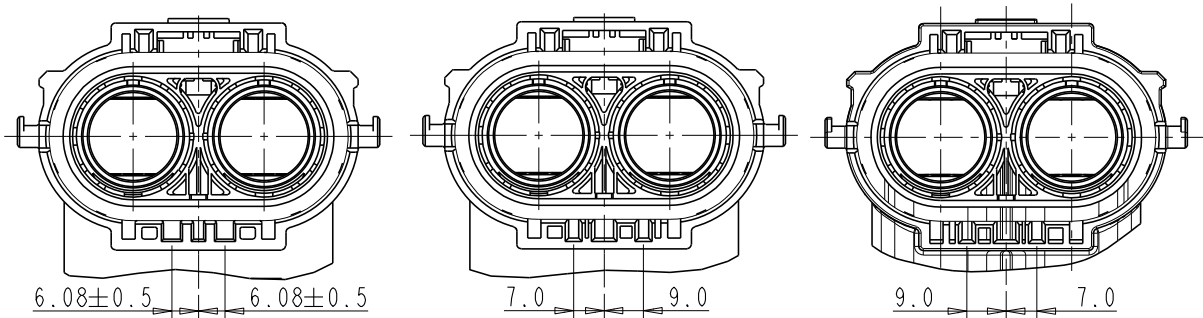


# Excel|Mate Plus (HVSL 1000)

## 2 PIN PLUG RIGHT ANGLE

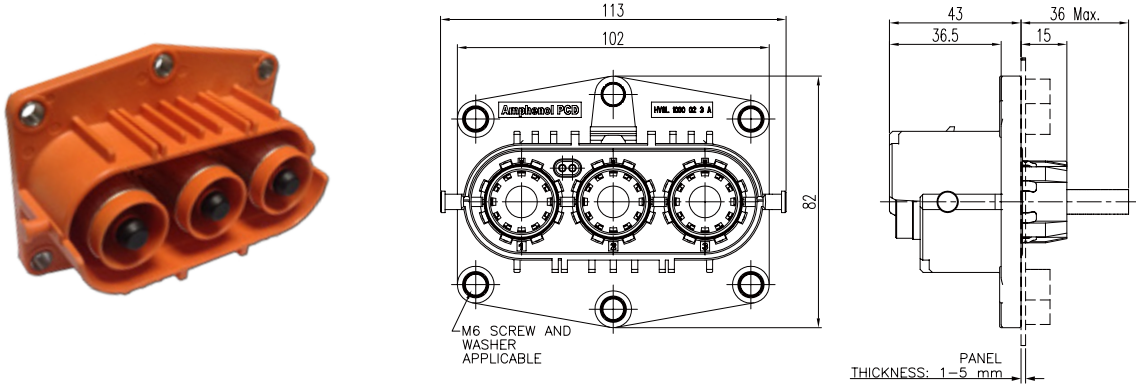


## INSERT ORIENTATIONS

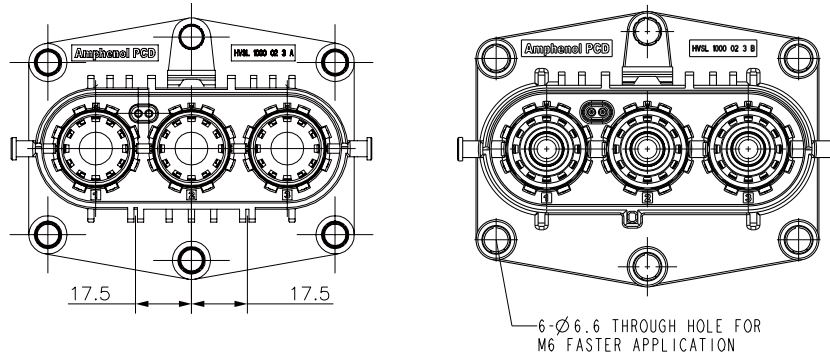


	Coding A	Coding B	Coding C
P/N	HVSL1000 08 2 A	HVSL1000 08 2 B	HVSL1000 08 2 C

3 PIN RECEPTACLE BOX MOUNTED

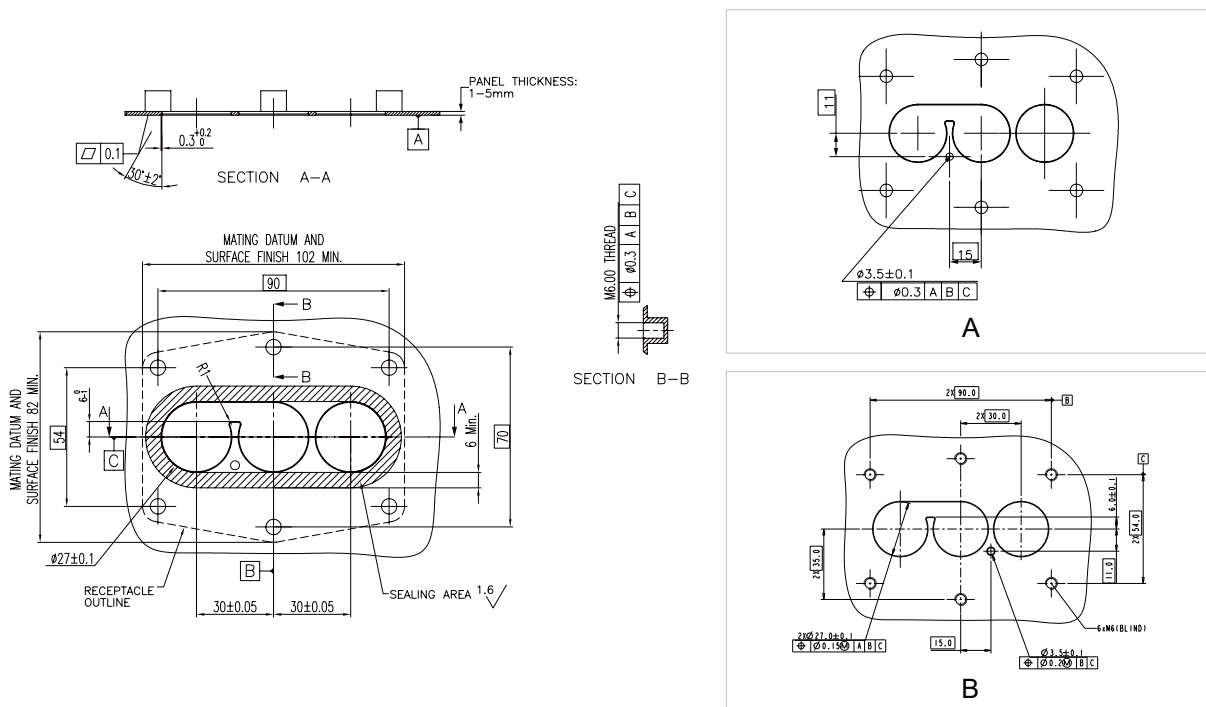


INSERT ORIENTATIONS



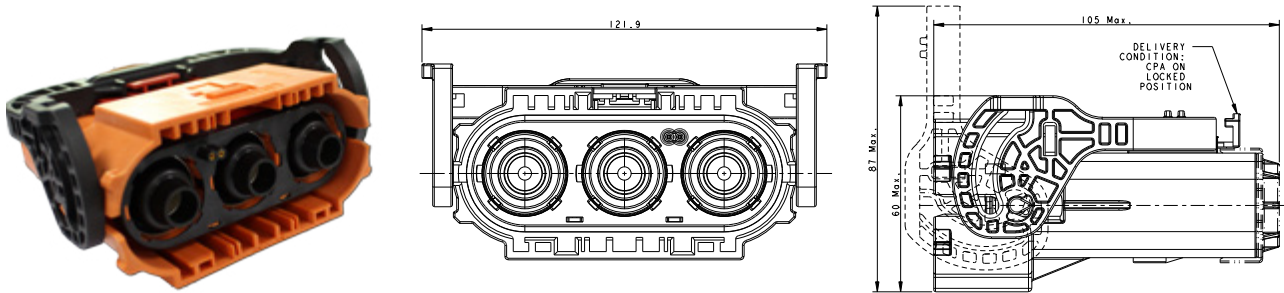
P/N	Coding A HVSL1000 02 3 A	Coding B HVSL1000 02 3 B
-----	-----------------------------	-----------------------------

PANEL MOUNTING DIMENSIONS

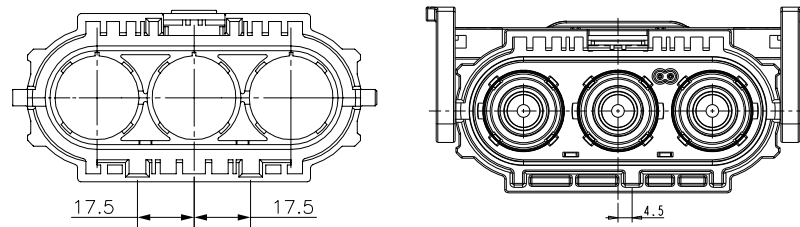


# Excel|Mate Plus (HVSL 1000)

## 3 PIN PLUG

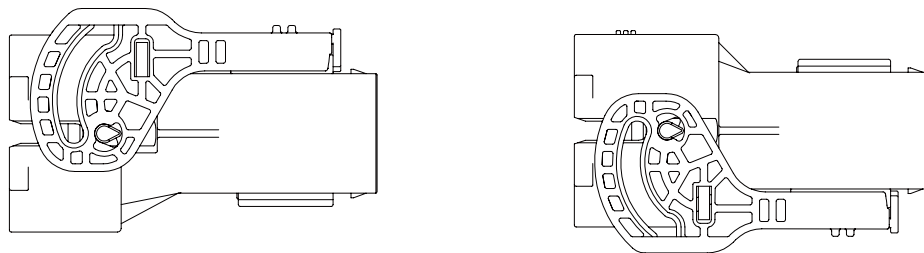


## INSERT ORIENTATIONS



	Coding A	Coding B
P/N	HVSL1000 06 3 A	HVSL1000 06 3 B

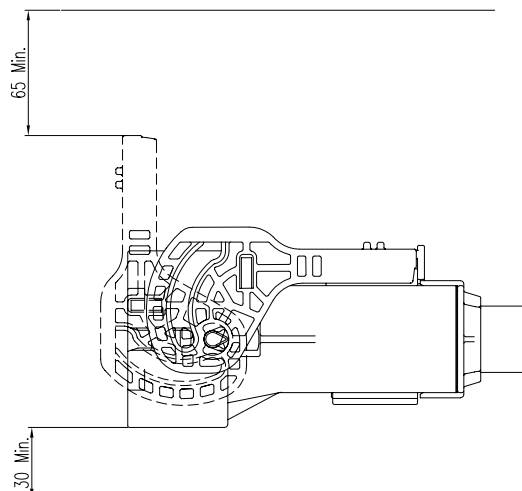
## LEVER POSITION



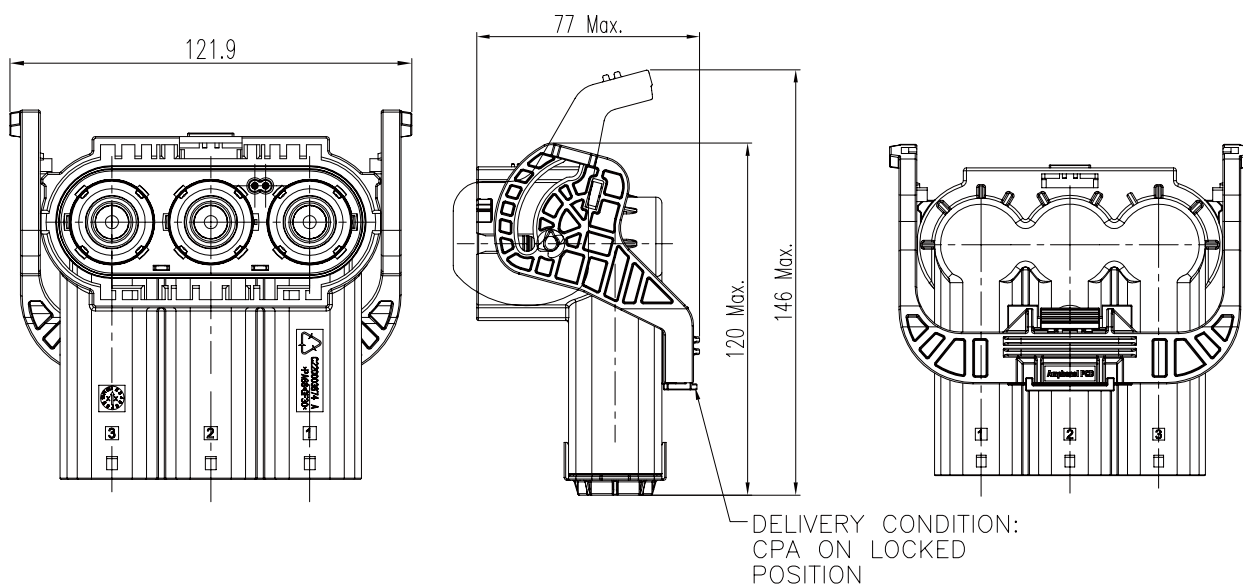
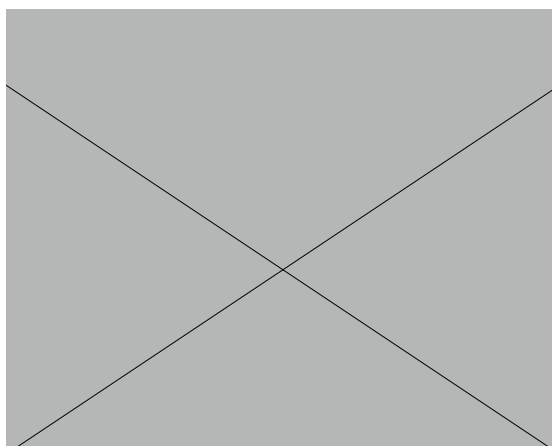
STANDARD LEVER

REVERSE LEVER

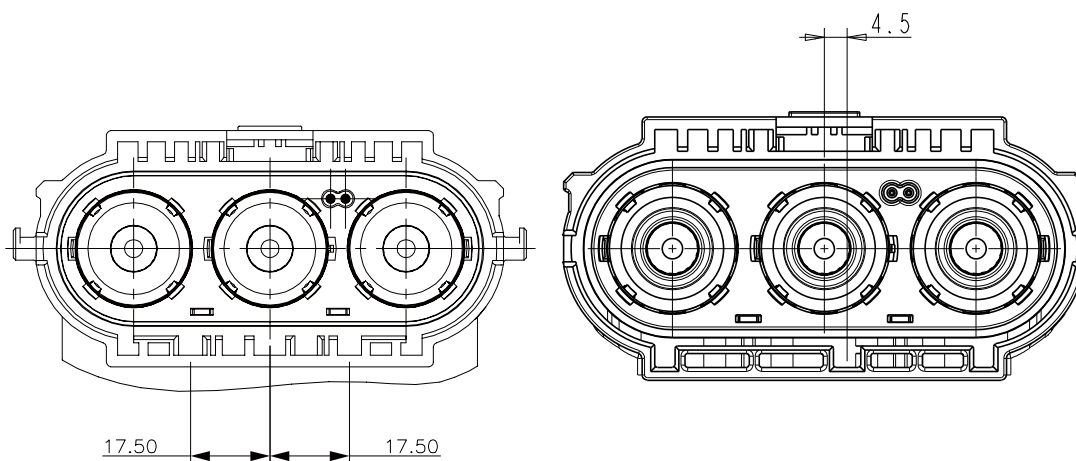
## INSTALLATION CLEARANCE



3 PIN PLUG RIGHT ANGLE



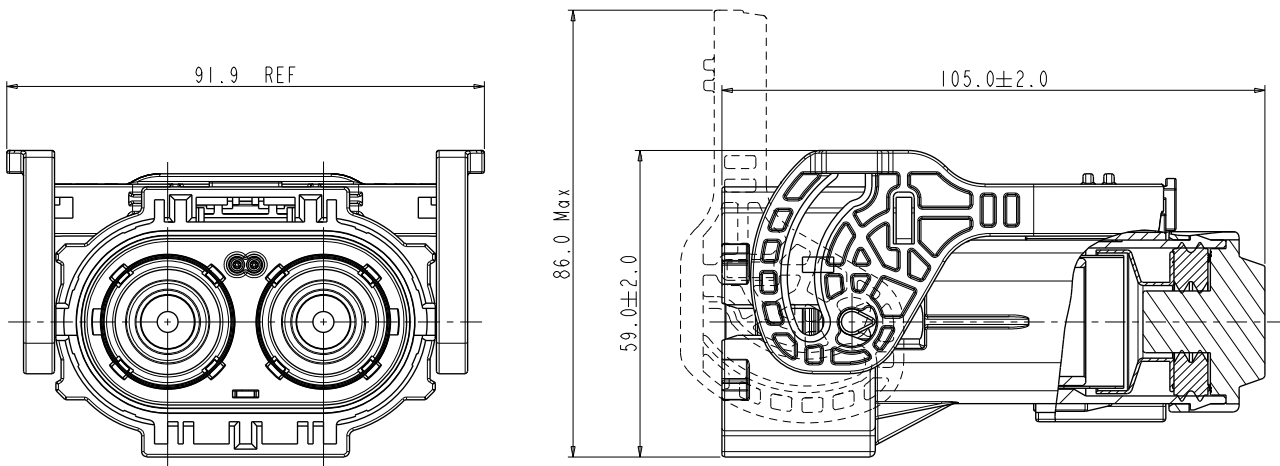
INSERT ORIENTATIONS



Coding A  
P/N HVSL1000 08 3 A

Coding B  
P/N HVSL1000 08 3 B

## DUMMY PLUG



HVSL1000	06	2	A	0	S1
----------	----	---	---	---	----

**Product type:**

06: Straight plug

**Position:**

2: 2 position

**Coding / Alternate position:**

A: Coding A

B: Coding B

C: Coding C

**Interlock:**

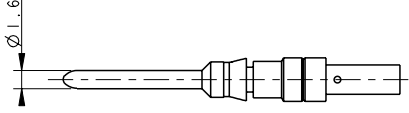
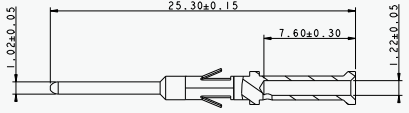
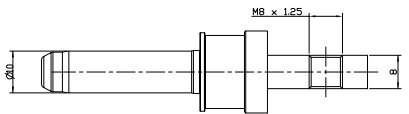
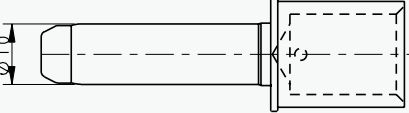
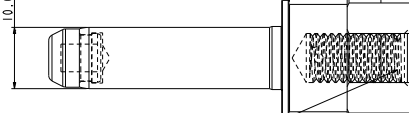
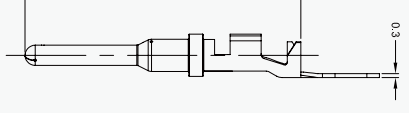
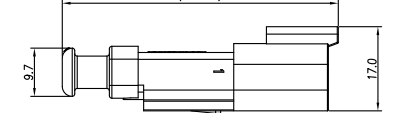
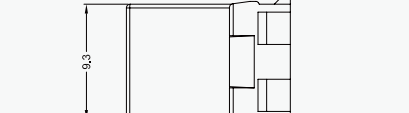
0: Without interlock | 1: With interlock

**Dummy plug:**

S1

## ATTACHMENT: CONTACTS FOR RECEPTACLE

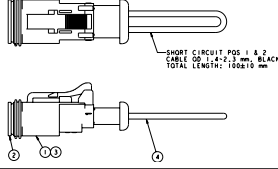
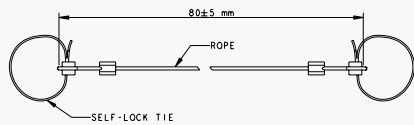
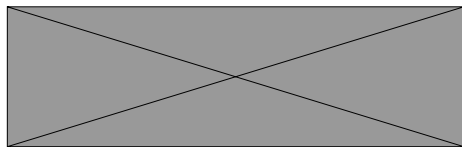
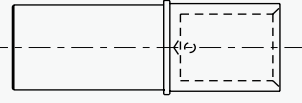
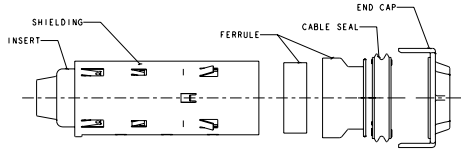
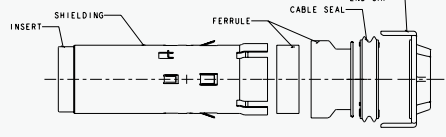
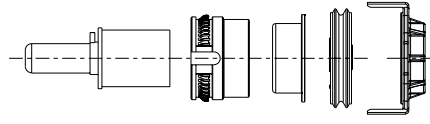
All connectors include contacts. For extra contacts, please order them separately (ref: P/N below)

Name	Contact P/N & Wire Size	Drawing
1 Pin Box mounted receptacle for Interlock	C42000400504G 0.5 to 0.75mm <sup>2</sup> max wire	
2 or 3 pin for Interlock	C200003609 0.5 to 0.75mm <sup>2</sup> max wire	
Power contact Thread for Bus-bar	C4200036152	
Power contact Crimp for wire	C42000361511 - 70mm <sup>2</sup> wire C42000361512 - 50mm <sup>2</sup> wire C42000361513 - 35mm <sup>2</sup> wire C42000361514 - 25mm <sup>2</sup> wire	
Power contact for thread	P01BM00023 M8	
1 Pin: In-line receptacle for Interlock	AT60-16-0622 0.5mm <sup>2</sup> max wire	
	AT04-2P-SR02BLK 0.5mm <sup>2</sup> max wire	
	AW2P	

# CONTACTS FOR RECEPTACLE

## ATTACHMENT: CONTACTS FOR PLUG

All connectors include contacts. For extra contacts, please order them separately (ref: P/N below)

Name	Contact P/N & Wire Size	Drawing
1 Pin HVIL plug	C210003610	
1 Pin (For In-line plug) Rope for Interlock	C210003608 (Order with HVIL plug)	
1 Pin (For R/A plug) Rope for Interlock	C210003611 (Order with HVIL plug)	
Socket contact	C4200036161 - 70mm <sup>2</sup> wire C4200036162 - 50mm <sup>2</sup> wire C4200036163 - 35mm <sup>2</sup> wire C4200036164 - 25mm <sup>2</sup> wire	
Kit of socket insert For plug	C4220036011 - 70mm <sup>2</sup> wire C4220036012 - 50mm <sup>2</sup> wire C4220036013 - 35mm <sup>2</sup> wire C4220036014 - 25mm <sup>2</sup> wire	
Kit of socket insert For receptacle in-line	C4220036021 - 70mm <sup>2</sup> wire C4220036022 - 50mm <sup>2</sup> wire C4220036023 - 35mm <sup>2</sup> wire C4220036024 - 25mm <sup>2</sup> wire	
Power contact - rear Crimp for wire for right angle plug	C4220036031 - 70mm <sup>2</sup> wire C4220036032 - 50mm <sup>2</sup> wire C4220036033 - 35mm <sup>2</sup> wire C4220036034 - 25mm <sup>2</sup> wire	

HVSL 1000 | PRODUCT SERIES OVERVIEW

Single pin  
(HVIL External)



In-line receptacle



In-line plug

Single pin  
(Without HVIL)



2 pin  
(HVIL Integrated)



3 pin  
(HVIL Integrated)



EXTRACTION TOOL FOR RECEPTACLE SIGNAL CONTACT

HVIL-contact Extraction tool: HVTOOL11R



# HOW TO ORDER (HVSL 1000)

## HOW TO ORDER: PLUG

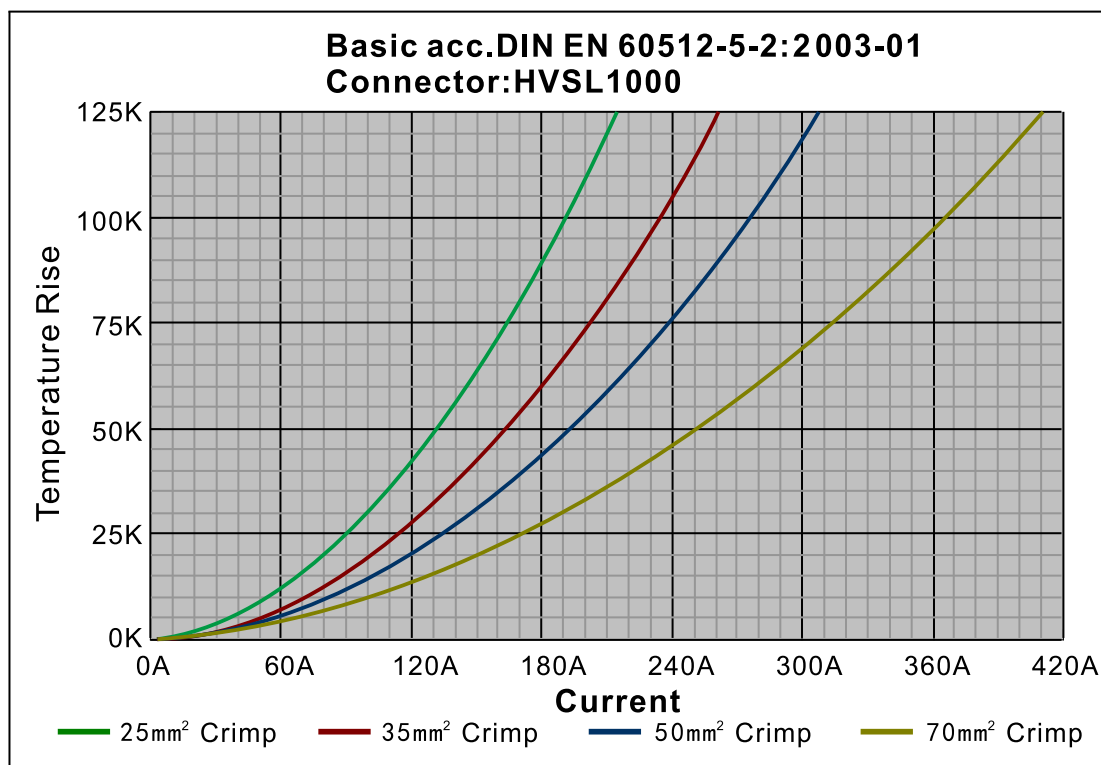
	HVSL1000	06	1	A	0	35
<b>Product type:</b>						
06: Straight plug   08: Right angle plug						
<b>Position:</b>						
1: 1 position   2: 2 position   3: 3 position						
<b>Coding / Alternate position:</b>						
A: Coding A (for positions 1, 2 & 3)						
B: Coding B (for positions 1 & 2)						
C: Coding C (for position 1)						
D: Coding D (for position 1)						
<b>Interlock:</b>						
0: Without interlock   1: With interlock						
<b>Cable size:</b>						
25: 25mm <sup>2</sup> cable   35: 35mm <sup>2</sup> cable   50: 50mm <sup>2</sup> cable   70: 70mm <sup>2</sup> cable						

## HOW TO ORDER: RECEPTACLE

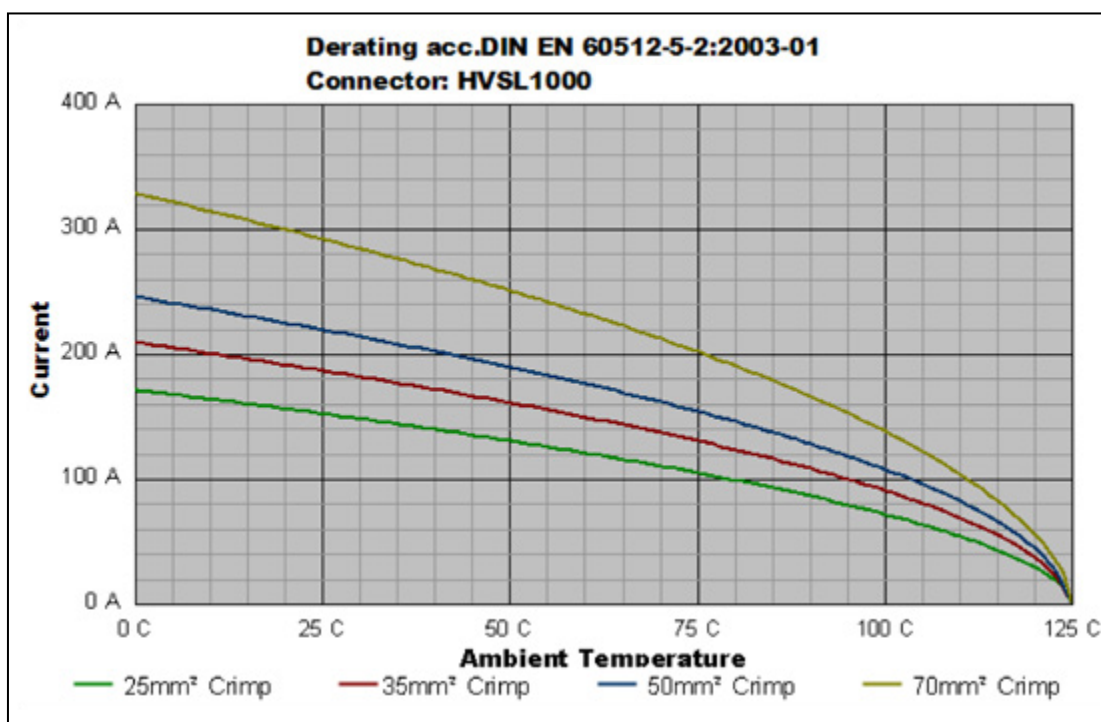
	HVSL1000	01	1	A	0	35
<b>Product type:</b>						
01: In-line receptacle						
<b>Position:</b>						
1: 1 position						
<b>Coding / Alternate position:</b>						
A: Coding A						
B: Coding B						
C: Coding C						
D: Coding D						
<b>Interlock:</b>						
0: Without interlock   1: With interlock						
<b>Cable size:</b>						
25: 25mm <sup>2</sup> cable   35: 35mm <sup>2</sup> cable   50: 50mm <sup>2</sup> cable   70: 70mm <sup>2</sup> cable						

	HVSL1000	02	1	A	0	H8
<b>Product type:</b>						
02: Box mounted receptacle						
04: Box mounted receptacle without Interlock						
<b>Position:</b>						
1: 1 position   2: 2 position   3: 3 position						
<b>Coding / Alternate position:</b>						
A: Coding A (for positions 1, 2 & 3)						
B: Coding B (for positions 1 & 2)						
C: Coding C (for position 1)						
D: Coding D (for position 1)						
<b>Interlock:</b>						
0: Without interlock   1: With interlock						
<b>Cable size:</b>						
H8: M8 busbar terminal						
D8: D8 internal screw terminal						
25: 25mm <sup>2</sup> cable   35: 35mm <sup>2</sup> cable   50: 50mm <sup>2</sup> cable   70: 70mm <sup>2</sup> cable						

## HVSL 1000 | Temperature Rise



## HVSL 1000 | Derating Curve



Remark: tests carried out on the complete connector.

# Excel|Mate Plus (HVSL P 1000)

EXCEL | MATE Plus (P 1000)



### High Voltage Safety Lock

EXCEL | MATE Plus (P 1000) offers a max rated voltage up to 1000V and a max rated current of 250A. It can be used for power solutions in various HEV applications.

External HVIL.

### KEY FEATURES

With interlock solution

Sealing, IP67 (mated), IP6K9K

2-position available

Touch-proof, IP2XB

Multiple coding positions

### APPLICATIONS

HEV Battery

Inverters

Junction boxes

Power distribution boxes

### MECHANICAL

Durability  $\geq 50$  mating cycles

Wire range 50 to 70 mm<sup>2</sup>

### ELECTRICAL

Rated voltage 1000V DC

Rated current 70mm<sup>2</sup> shield cable:  
250A Max @ ambient temperature 70°C

50mm<sup>2</sup> shield cable:  
200A Max @ ambient temperature 70°C

Insulator resistance  $> 200M\Omega$

Dielectric withstand voltage 3000V AC

### ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

### STANDARDS

USCAR-2

USCAR-37

LV-215

RoHS & REACH

### MATERIAL

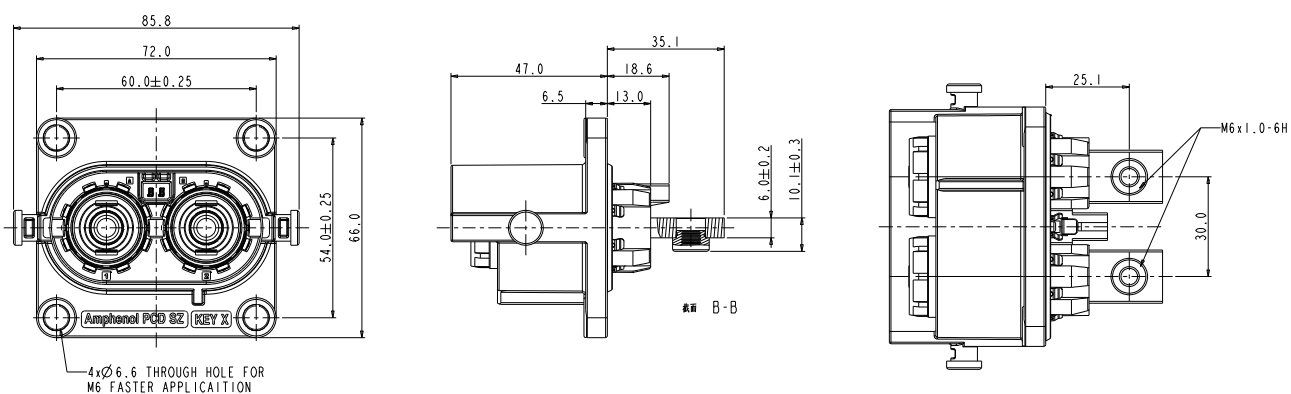
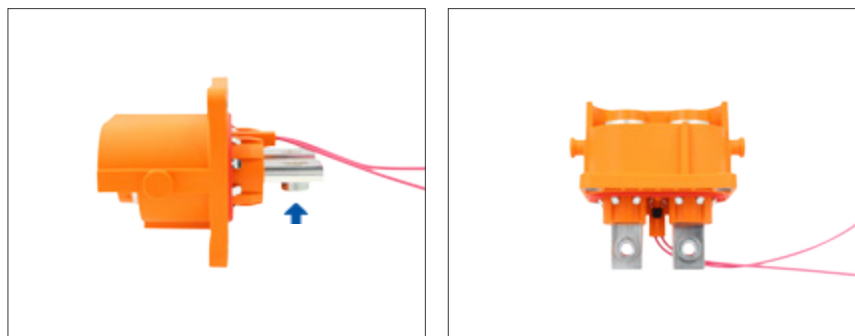
Contacts Copper alloy with silver plating

Housing PA66 + GF

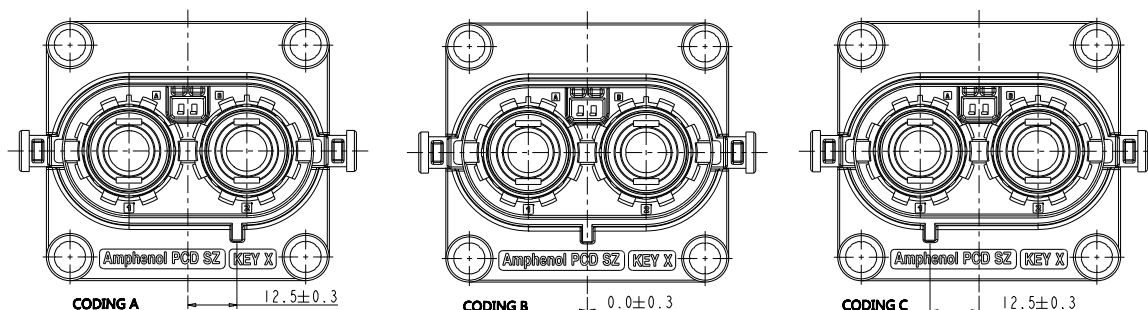
Seal SR

## 2 PIN RECEPTACLE

Signal PIN and TPA need to be purchased separately.

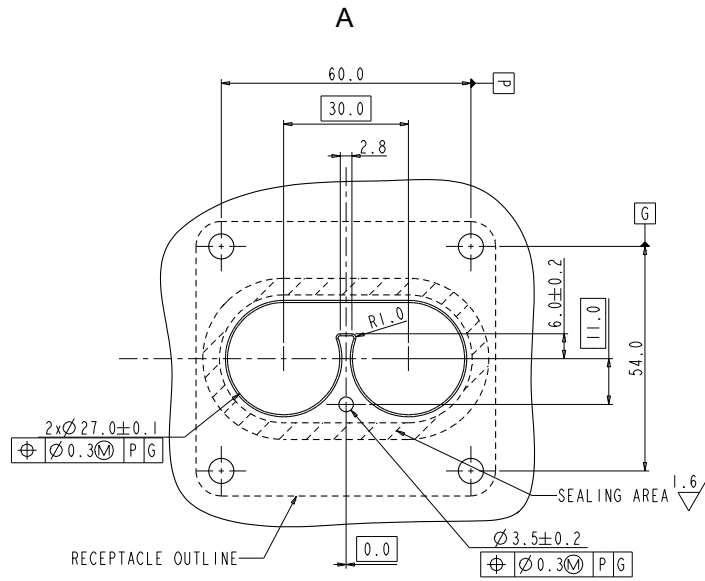


## INSERT ORIENTATIONS

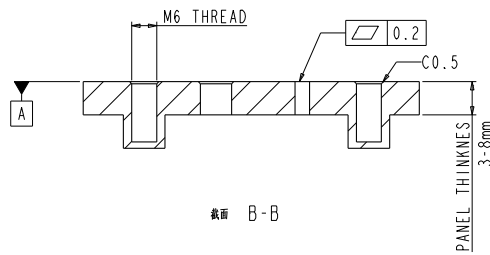


	Coding A	Coding B	Coding C
P/N	HVSL P 1000 02 2 A	HVSL P 1000 02 2 B	HVSL P 1000 02 2 C

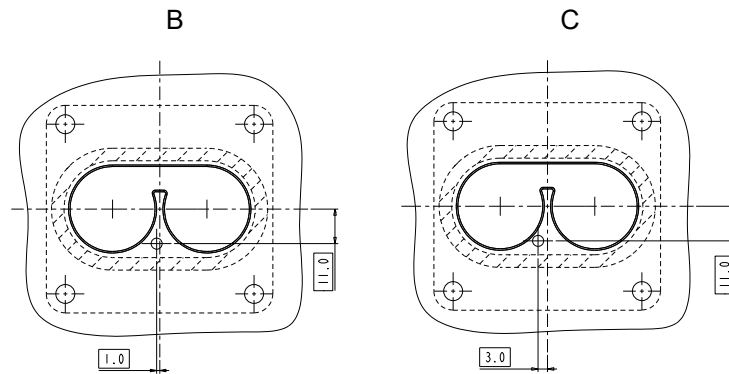
PANEL MOUNTING DIMENSIONS



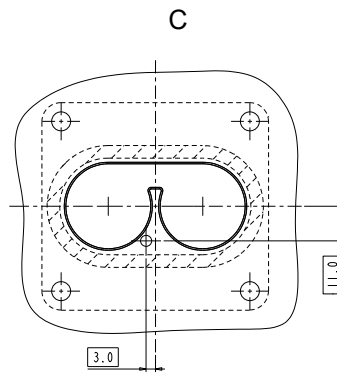
CODING A INTERFACE VIEW  
ALL OTHER DIMENSIONS SAME AS CODING A



截面 B-B

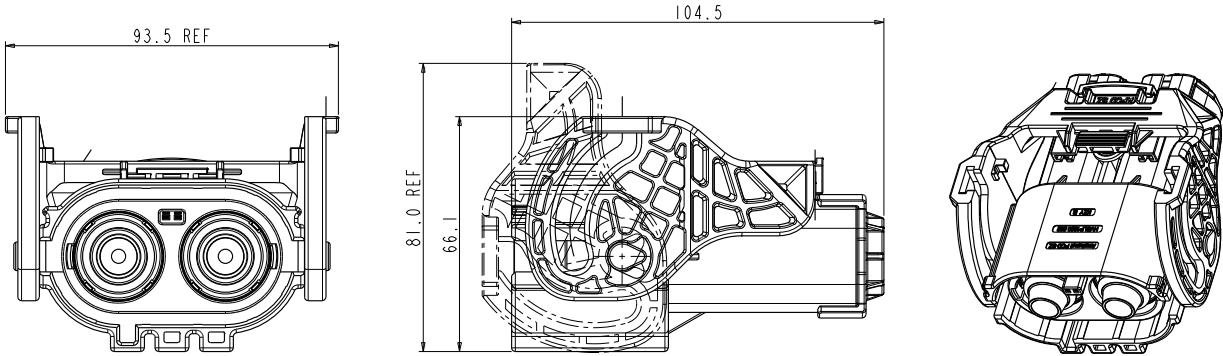


CODING B INTERFACE VIEW  
ALL OTHER DIMENSIONS SAME AS CODING B

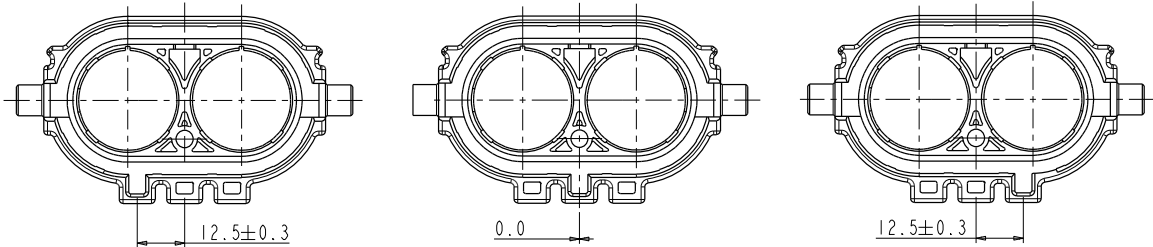


CODING C INTERFACE VIEW  
ALL OTHER DIMENSIONS SAME AS CODING C

2 PIN STRAIGHT PLUG



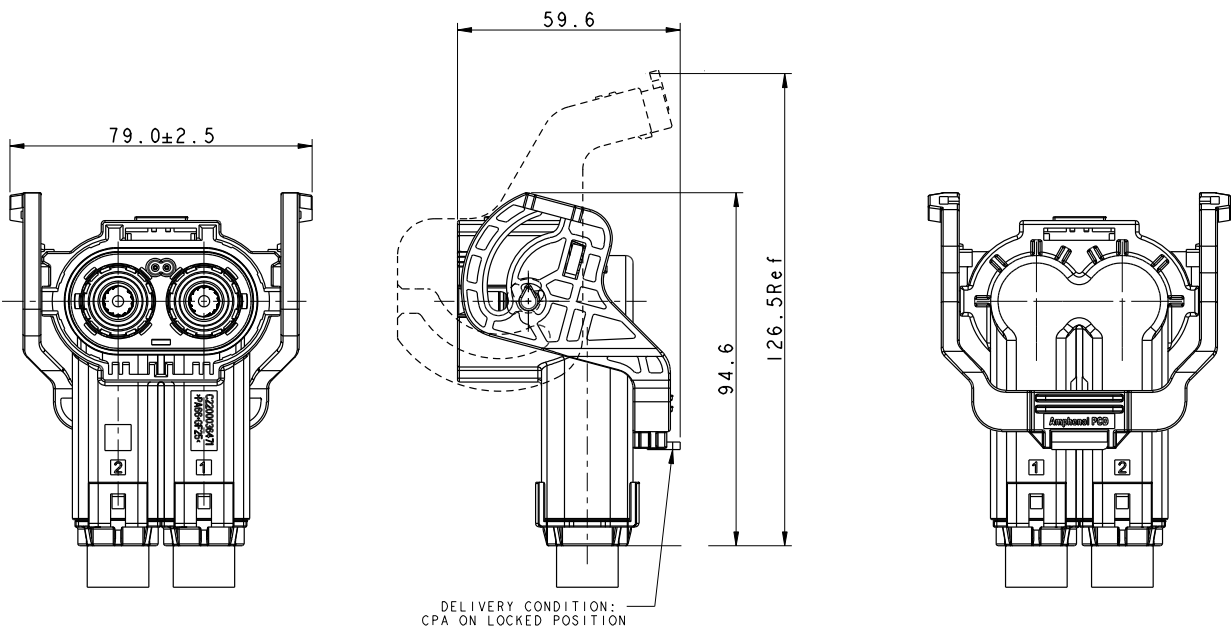
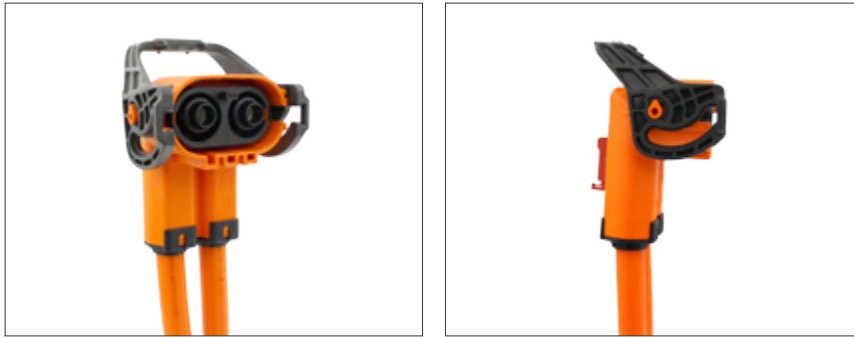
INSERT ORIENTATIONS



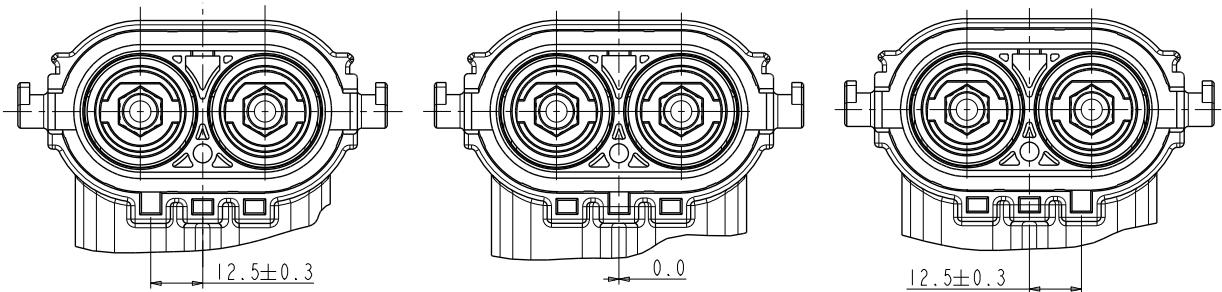
	Coding A	Coding B	Coding C
P/N	HVSL P 1000 06 2 A	HVSL P 1000 06 2 B	HVSL P 1000 06 2 C

# ExcelMate Plus (HVSL P 1000)

## 2 PIN RIGHT ANGLE PLUG



## INSERT ORIENTATIONS



	Coding A	Coding B	Coding C
P/N	HVSL P 1000 08 2 A	HVSL P 1000 08 2 B	HVSL P 1000 08 2 C

HOW TO ORDER: PLUG

	HVSLP1000	06	2	A	0	01
<b>Product type:</b>						
06: Straight plug   08: Right angle plug						
<b>Position:</b>						
2: 2-position						
<b>Coding / Alternate position:</b>						
A: Coding A						
B: Coding B						
C: Coding C						
<b>Interlock:</b>						
0: Without interlock   1: With interlock						
<b>Cable OD:</b>						
01: 17.9 ± 0.3mm (70mm <sup>2</sup> cable)   02: 15.5 ± 0.3mm (50mm <sup>2</sup> wire)						

HOW TO ORDER: RECEPTACLE

	HVSLP1000	02	2	A	D	H6
<b>Product type:</b>						
02: Box mounted receptacle						
<b>Position:</b>						
2: 2 position						
<b>Coding / Alternate position:</b>						
A: Coding A						
B: Coding B						
C: Coding C						
<b>Standard part:</b>						
D: The nut is at the bottom of the terminal						
<b>Cable size:</b>						
H6: M6 OT terminal						

# Excel|Mate S (HVSL 800)

ExcelMate S (HVSL800)



## EXCEL | MATE S

EXCEL | MATE S is a 2 pin and 3 pin connector with a current carrying capacity from 120 to 200A and 25 to 50 mm<sup>2</sup> crimping cable.

Specially designed for battery, inverters, junction boxes, power distribution boxes and others HEV devices' equipment.

## KEY FEATURES

Integrated internal HVIL

Current rating up to 200A@ ambient temperature 70°C

No tool required to unmate

Sealing, IP67 , IP6K9K

Touch-proof, IP2XB

Multiple coding positions

CPA available

## MECHANICAL

Durability	≥ 50 mating cycles
Wire range	25 to 50 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Copper bar
HVIL	Integrated
CPA	CPA

## ELECTRICAL

Rated voltage	1000V DC
Rated current	Max 180A @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device

## ENVIRONMENTAL

Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C

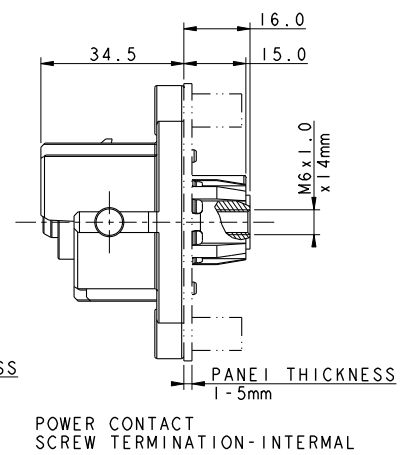
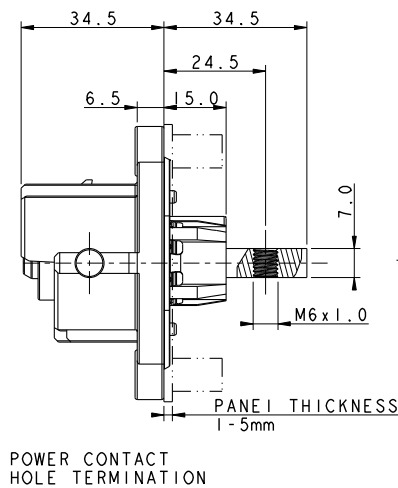
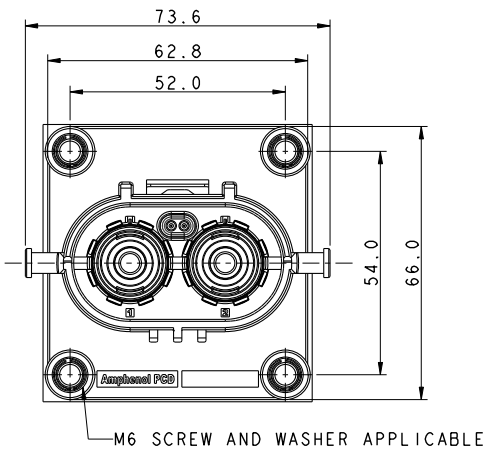
## STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

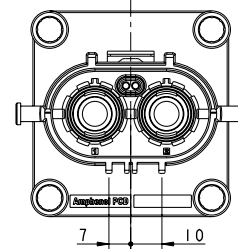
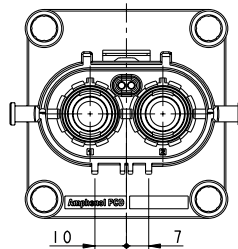
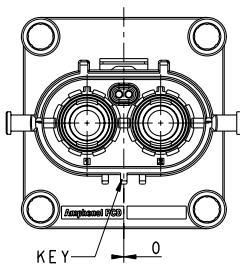
## MATERIAL

Contacts	Copper alloy with silver plating
Housing	PA66 + GF
Seal	SR

2 PIN RECEPTACLE



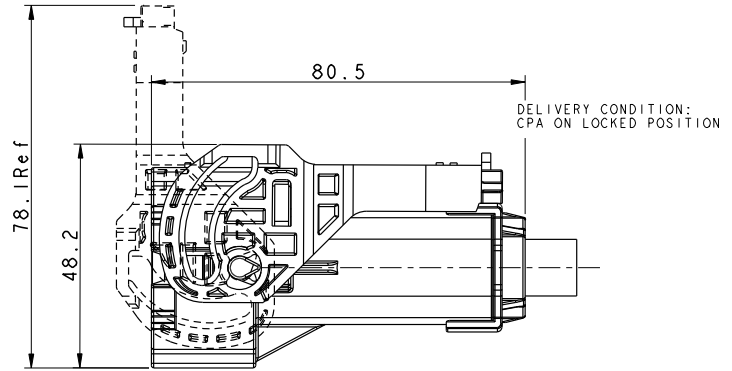
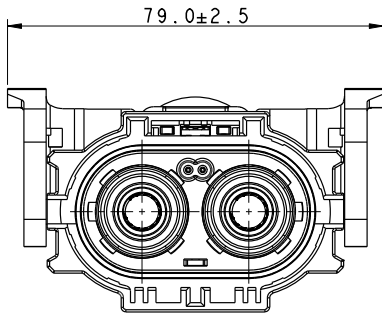
INSERT ORIENTATIONS



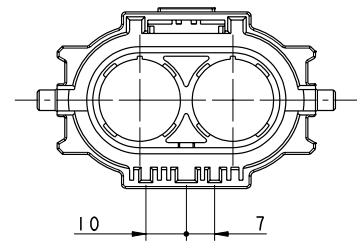
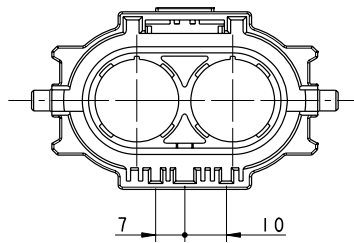
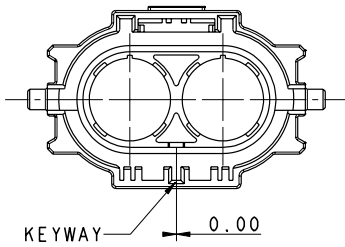
	Coding A	Coding B	Coding C
P/N	HVSL800 02 2 A	HVSL800 02 2 B	HVSL800 02 2 C

# Excel|Mate S (HVSL 800)

## 2 PIN STRAIGHT PLUG



## INSERT ORIENTATIONS

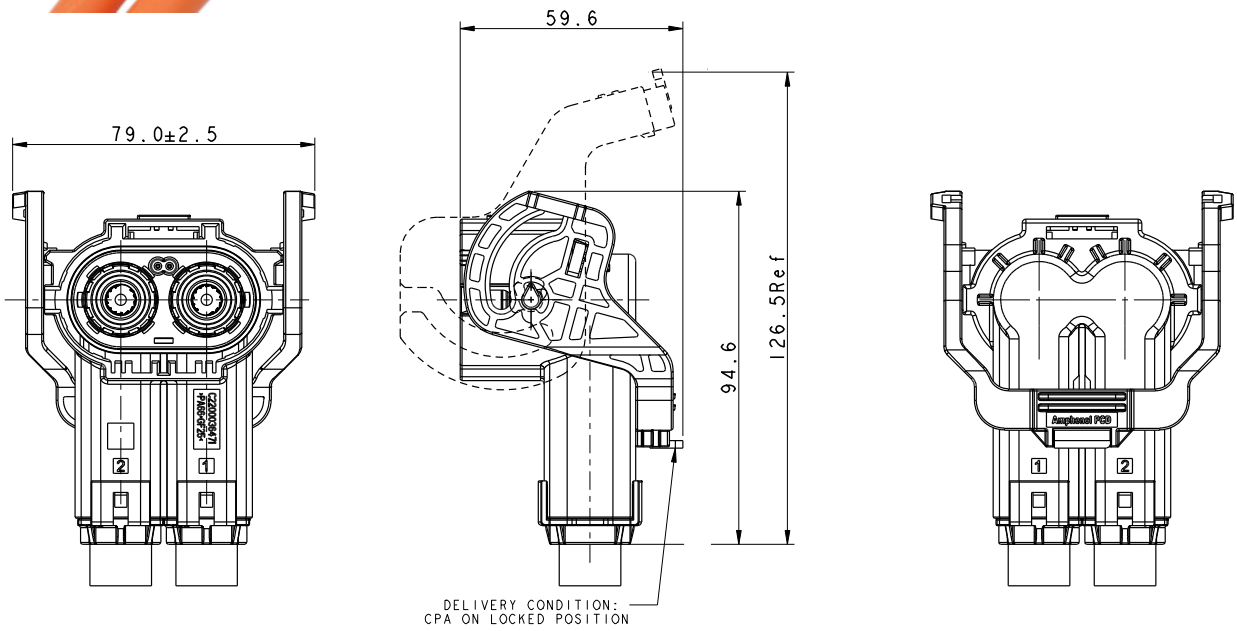


P/N Coding A  
HVSL800 06 2 A

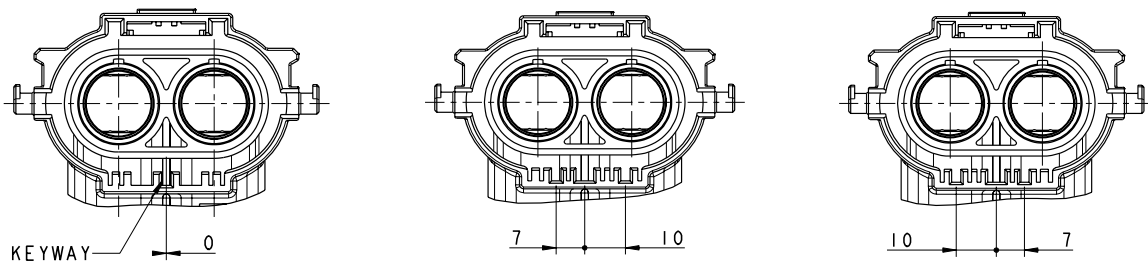
Coding B  
HVSL800 06 2 B

Coding C  
HVSL800 06 2 C

2 PIN RIGHT ANGLE PLUG



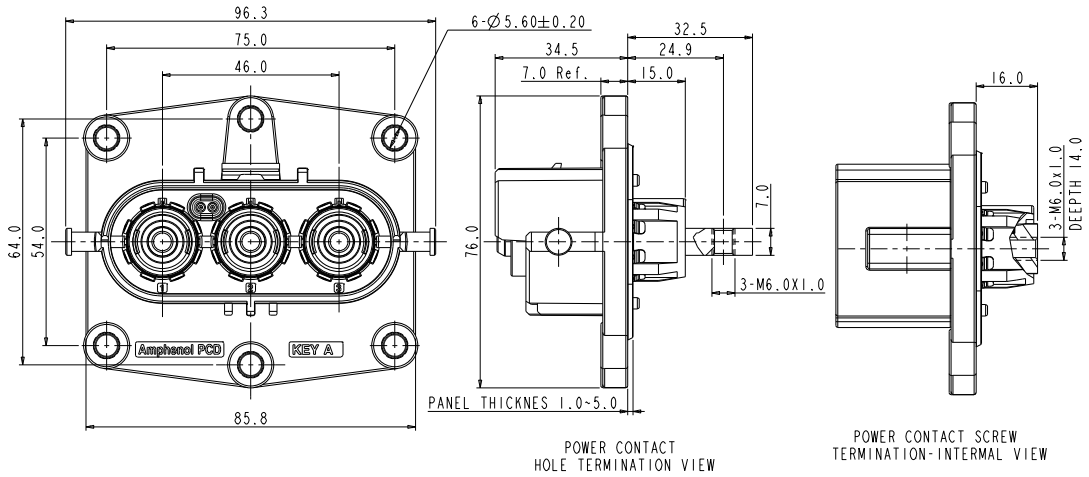
INSERT ORIENTATIONS



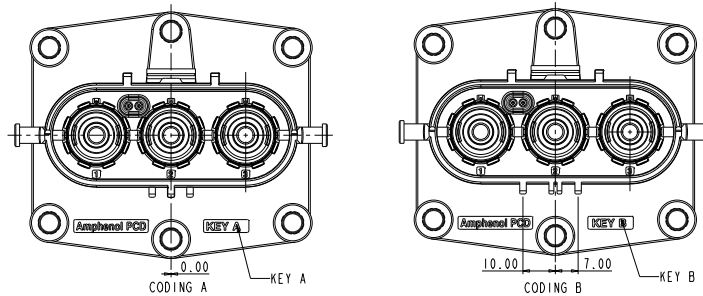
	Coding A	Coding B	Coding C
P/N	HVSL800 08 2 A	HVSL800 08 2 B	HVSL800 08 2 C

# Excel|Mate S (HVSL 800)

## 3 PIN RECEPTACLE

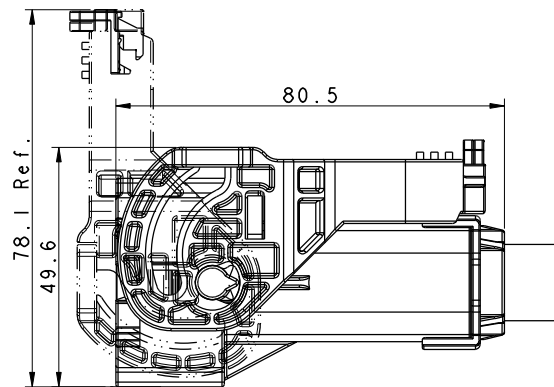
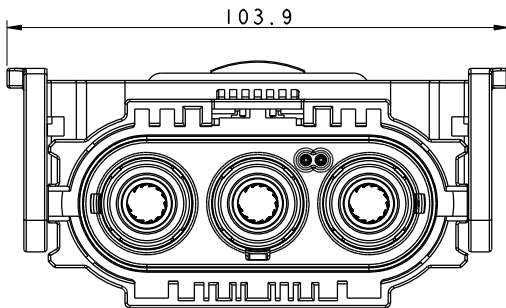


## INSERT ORIENTATIONS

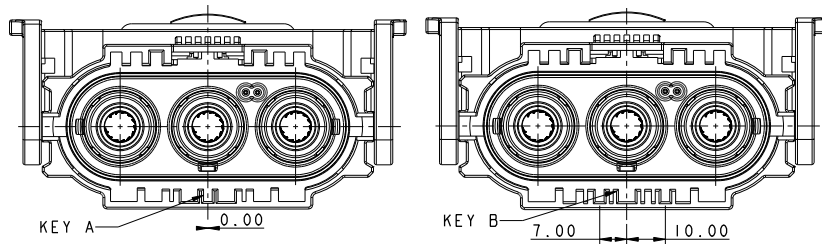


	Coding A	Coding B
P/N	HVSL800 02 3 A	HVSL800 02 3 B

3 PIN STRAIGHT PLUG



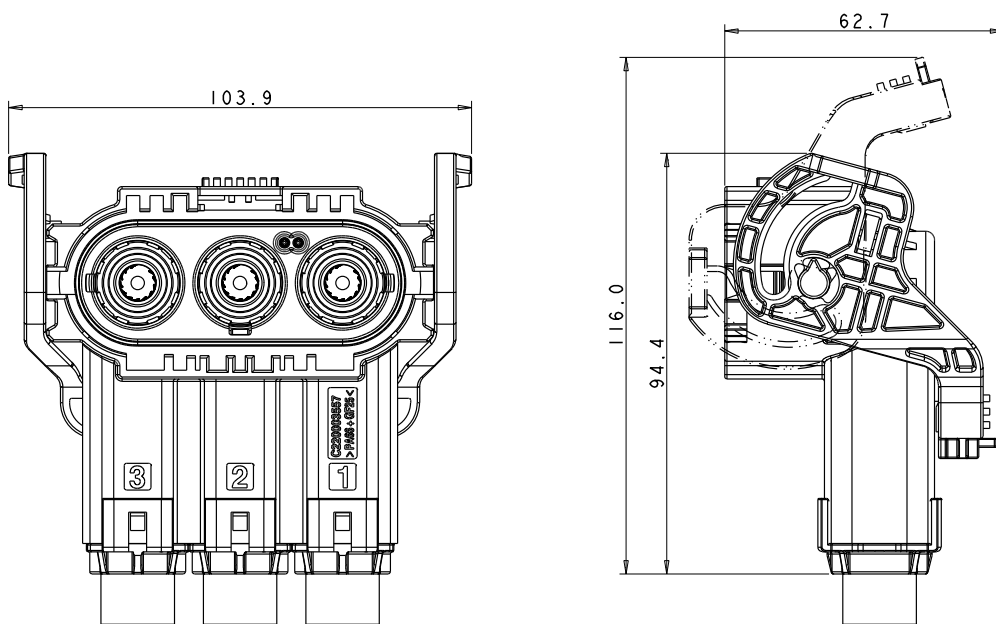
INSERT ORIENTATIONS



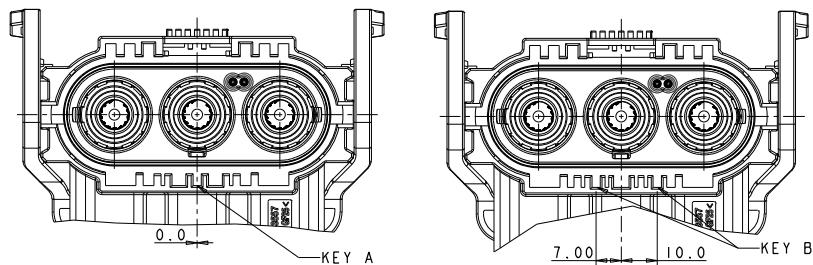
	Coding A	Coding B
P/N	HVSL800 06 3 A	HVSL800 06 3 B

# Excel|Mate S (HVSL 800)

## 3 PIN RIGHT ANGLE PLUG

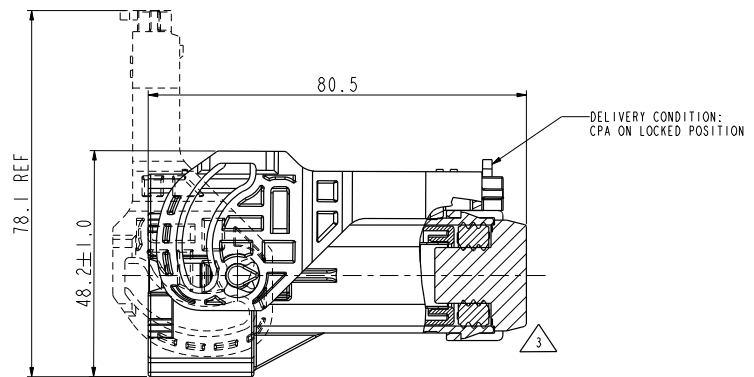
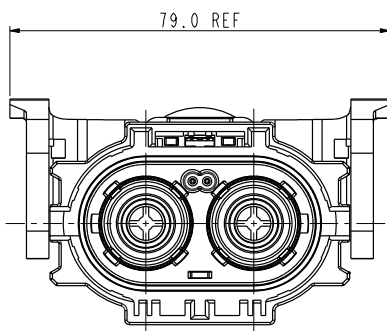


## INSERT ORIENTATIONS



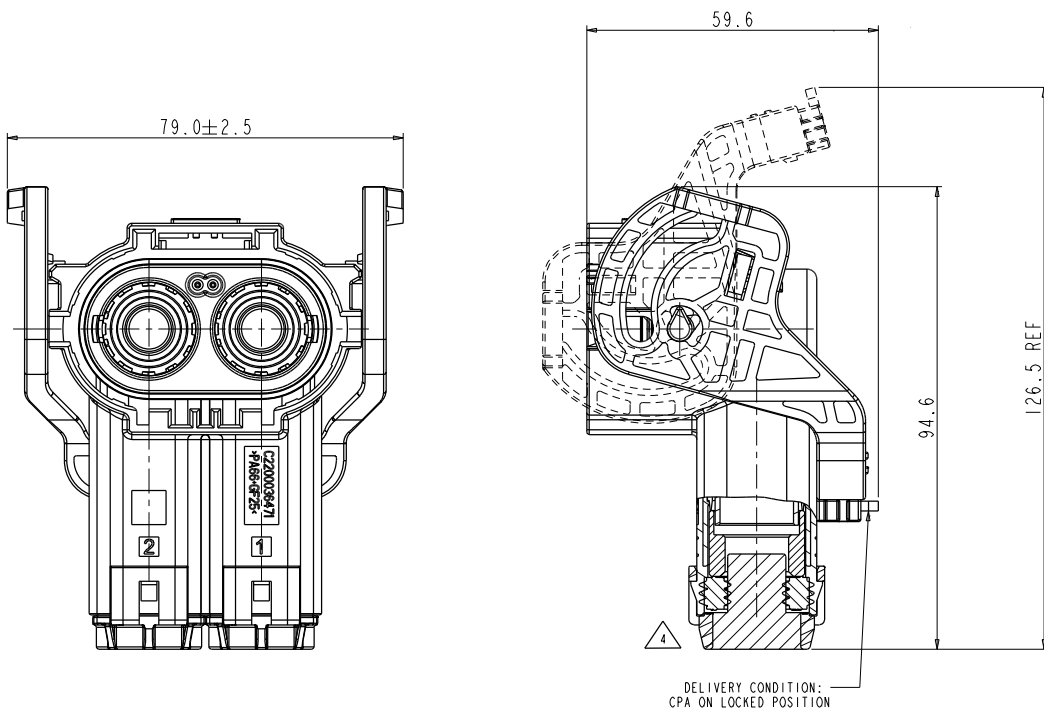
	Coding A	Coding B
P/N	HVSL800 08 3 A	HVSL800 08 3 B

DUMMY STRAIGHT PLUG



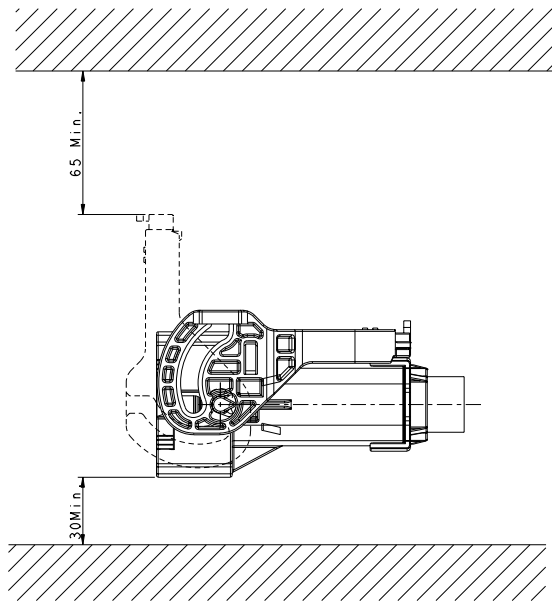
	HVSL800	06	2	A	0	S1
<b>Product type:</b>	06: Straight plug					
<b>Position:</b>	2: 2 position					
<b>Coding / Alternate position:</b>	A: Coding A B: Coding B C: Coding C					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Dummy plug:</b>	S1					

DUMMY RIGHT ANGLE PLUG



	HVSL800	08	2	A	0	S1
<b>Product type:</b>						
08: Right angle plug						
<b>Position:</b>						
2: 2 position						
<b>Coding / Alternate position:</b>						
A: Coding A						
B: Coding B						
C: Coding C						
<b>Interlock:</b>						
0: Without interlock   1: With interlock						
<b>Dummy plug:</b>						
S1						

## INSTALLATION CLEARANCE



## EXTRACTION TOOL FOR RECEPTACLE HVIL

### HVIL-contact Extraction tool: HVTOOL11R



## HOW TO ORDER: PLUG

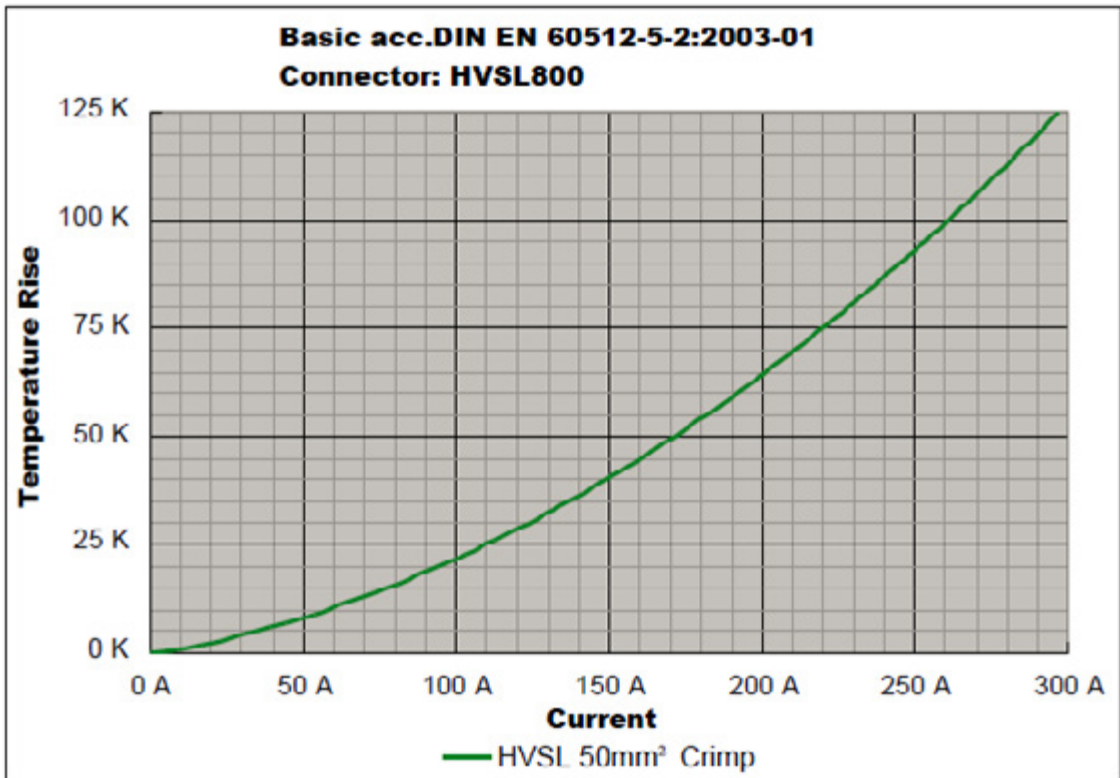
	HVSL800	06	2	A	0	50
<b>Product type:</b>	06: Straight plug   08: Right angle plug					
<b>Position:</b>	2: 2 position   3: 3 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B   C: Coding C (Only for 2 position)					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Cable size:</b>	25: 25mm <sup>2</sup> cable   35: 35mm <sup>2</sup> cable   50: 50mm <sup>2</sup> cable					

## HOW TO ORDER: RECEPTACLE

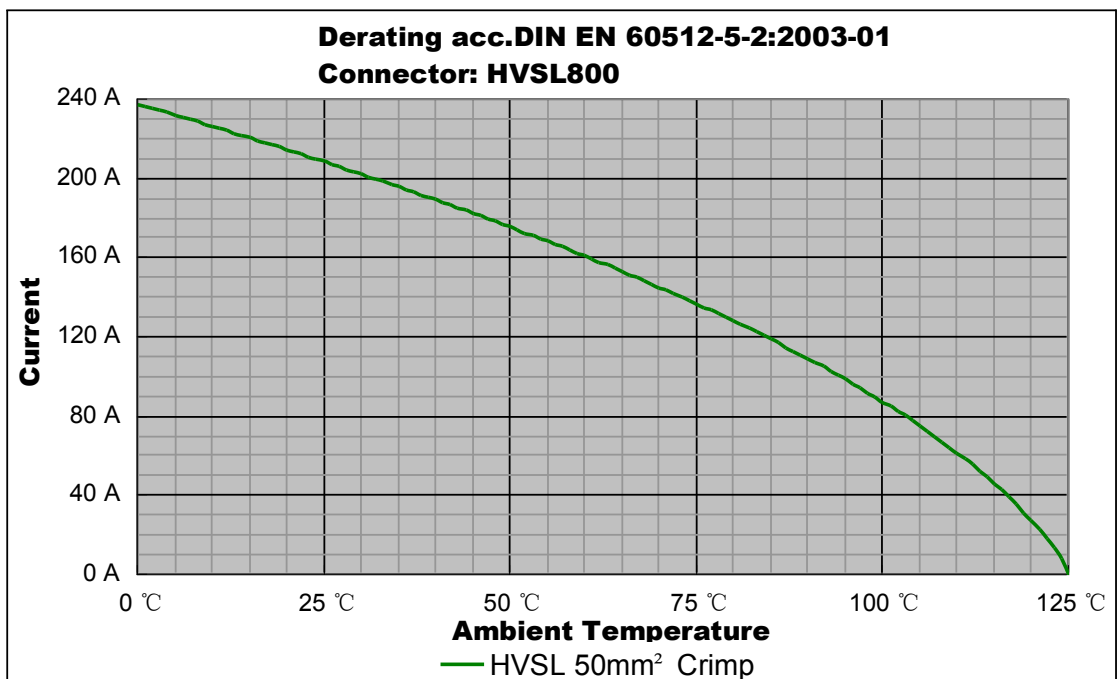
	HVSL800	02	2	A	0	H6
<b>Product type:</b>	02: Box mounted receptacle					
<b>Position:</b>	2: 2 position   3: 3 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B   C: Coding C (Only for 2 positions)					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Cable size:</b>	H6: Copper bar, OT terminal   D6: Screw (Internal), OT terminal					

# CHARTS (HVSL 800)

## HVSL 800 | Temperature Rise



## HVSL 800 | Derating Curve



Remark: tests carried out on the complete connector.

## ExcelMate S (P 800)



### EXCEL | MATE S

EXCEL | MATE S (P 800) is a 2 pin connector with a current carrying capacity from 120 to 200A and 25 to 50 mm<sup>2</sup> crimping cable.

Specially designed for battery, inverters, junction boxes, power distribution boxes and others HEV devices' equipment.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 200A@ ambient temperature 70°C

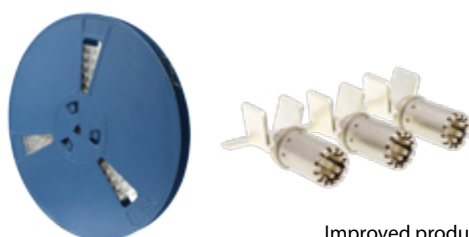
No tool required to unmate

Sealing, IP67 , IP6K9K

Touch-proof, IP2XB

Multiple coding positions

CPA available



Improved production efficiency. Automated tape and reel packaging.

### MECHANICAL

Durability	≥ 50 mating cycles
Wire range	25 to 50 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Copper bar
HVIL	Integrated
CPA	CPA

### ELECTRICAL

Rated voltage	1000V DC
Rated current	Max 200A @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device

### ENVIRONMENTAL

Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C

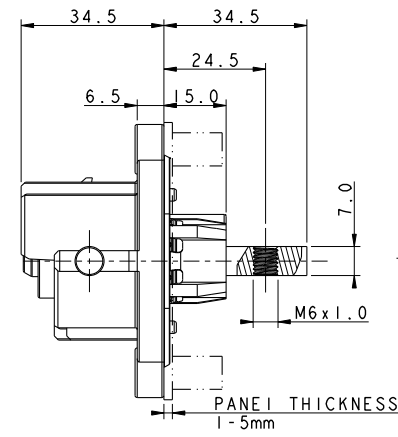
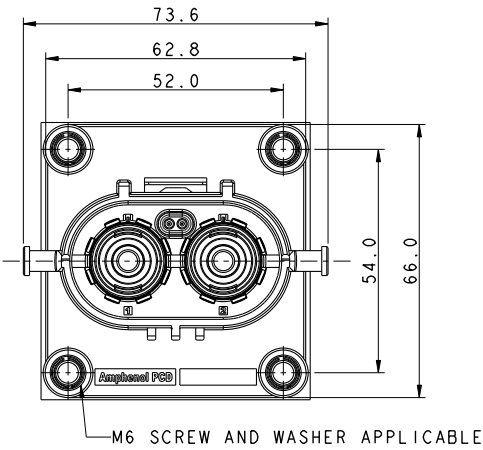
### STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

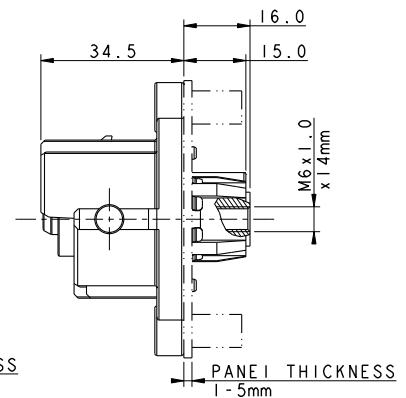
### MATERIAL

Contacts	Copper alloy with silver plating
Housing	PA66 + GF
Seal	SR

## 2 PIN RECEPTACLE

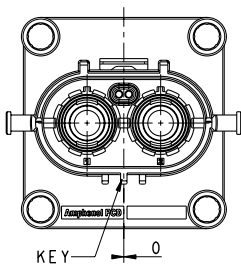


POWER CONTACT  
HOLE TERMINATION

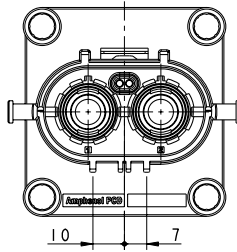


POWER CONTACT  
SCREW TERMINATION-INTERNAL

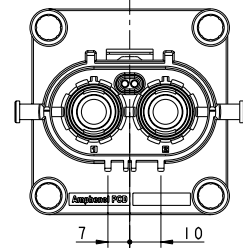
## INSERT ORIENTATIONS



KEY 0



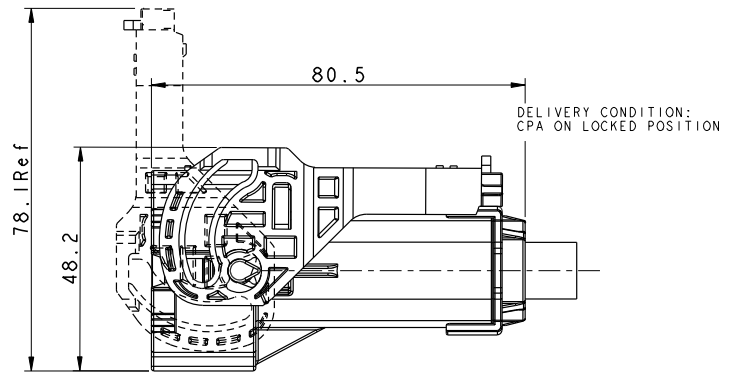
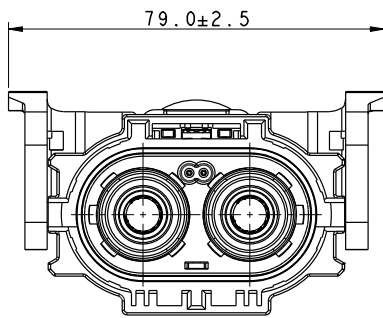
10 7



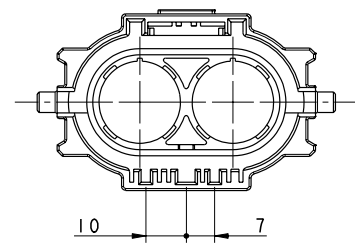
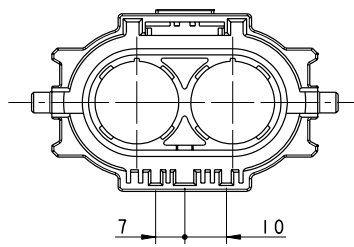
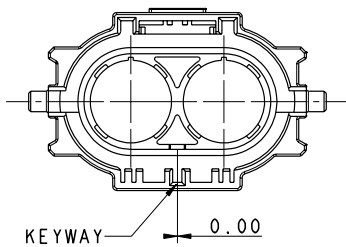
7 10

	Coding A	Coding B	Coding C
P/N	HVSL800 02 2 A	HVSL800 02 2 B	HVSL800 02 2 C

2 PIN STRAIGHT PLUG



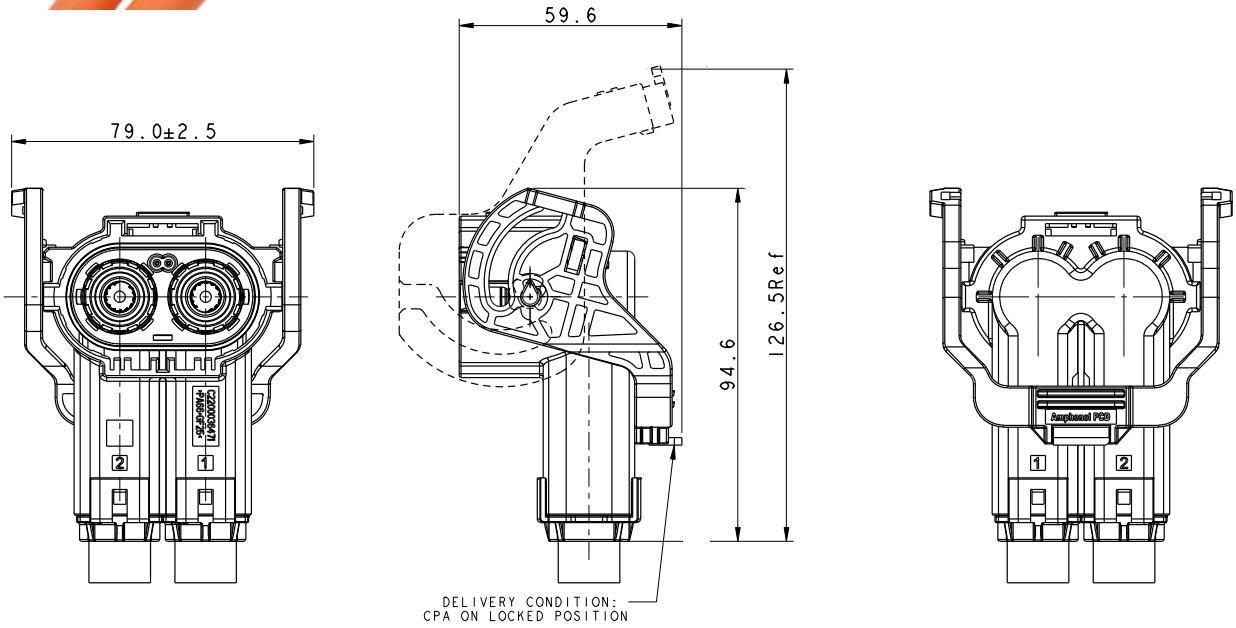
INSERT ORIENTATIONS



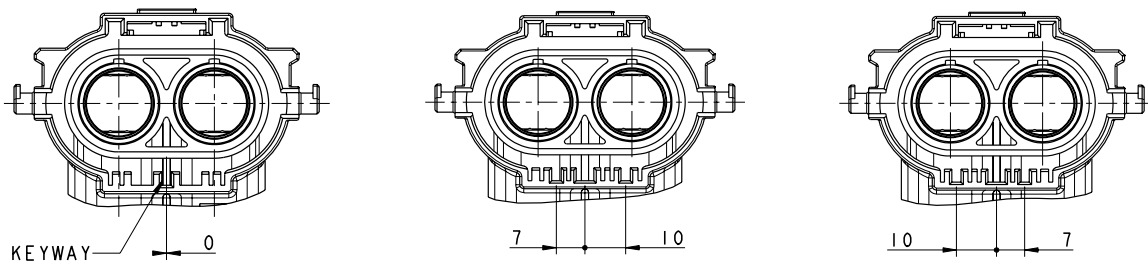
	Coding A	Coding B	Coding C
P/N	HVSLP800 06 2 A	HVSLP800 06 2 B	HVSLP800 06 2 C

# Excel|Mate S (HVSL P 800)

## 2 PIN RIGHT ANGLE PLUG



## INSERT ORIENTATIONS

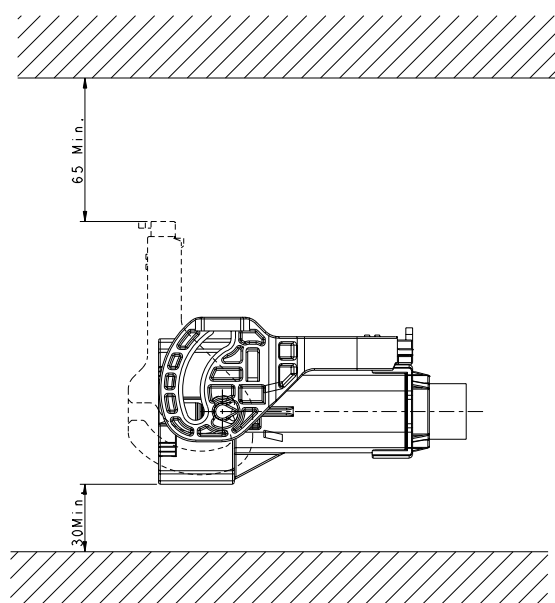


Coding A  
P/N HVSLP800 08 2 A

Coding B  
P/N HVSLP800 08 2 B

Coding C  
P/N HVSLP800 08 2 C

## INSTALLATION CLEARANCE



## EXTRACTION TOOL FOR RECEPTACLE HVIL



## HOW TO ORDER: PLUG

	HVSLP800	06	2	A	0	01
<b>Product type:</b>	06: Straight plug   08: Right angle plug					
<b>Position:</b>	2: 2 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B   C: Coding C					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Cable size:</b>	01: 16.5 ± 0.3mm (50mm <sup>2</sup> cable)   02: 14.2 ± 0.3mm (35mm <sup>2</sup> cable)   03: 11.9 ± 0.3mm (25mm <sup>2</sup> cable)   04: 13.5 ± 0.3mm (25mm <sup>2</sup> cable)   05: 15.5 ± 0.3mm (50mm <sup>2</sup> cable)					

## HOW TO ORDER: RECEPTACLE

	HVSL800	02	2	A	0	H6
<b>Product type:</b>	02: Box mounted receptacle					
<b>Position:</b>	2: 2 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B   C: Coding C					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Cable size:</b>	H6: Copper bar, OT terminal   D6: Screw (Internal), OT terminal					

# Excel|Mate PT (HVPC 800)

HVPC 800



## KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

Multiple coding positions

360° shielded from wire to device

Economical

## MECHANICAL

Durability	≥ 50 mating cycles
Wire range	35 to 50 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimp
HVIL	Integrated

## ELECTRICAL

Rated voltage	1000V DC
Rated current	Max 180A @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device

## ENVIRONMENTAL

Sealing	IP67, IP6K9K (mated)
Temperature range	-40°C to 125°C
Salt spray	96 hours

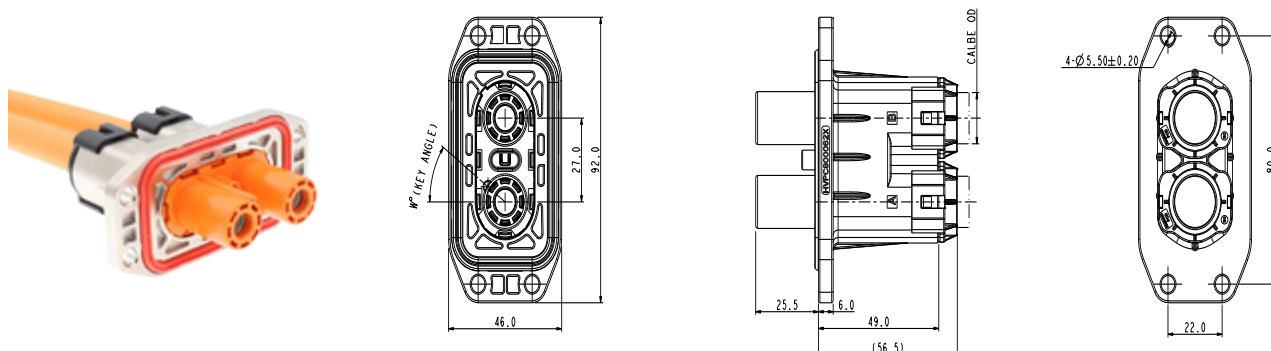
## STANDARDS

USCAR-2	
USCAR-37	
LV-215	
RoHS	

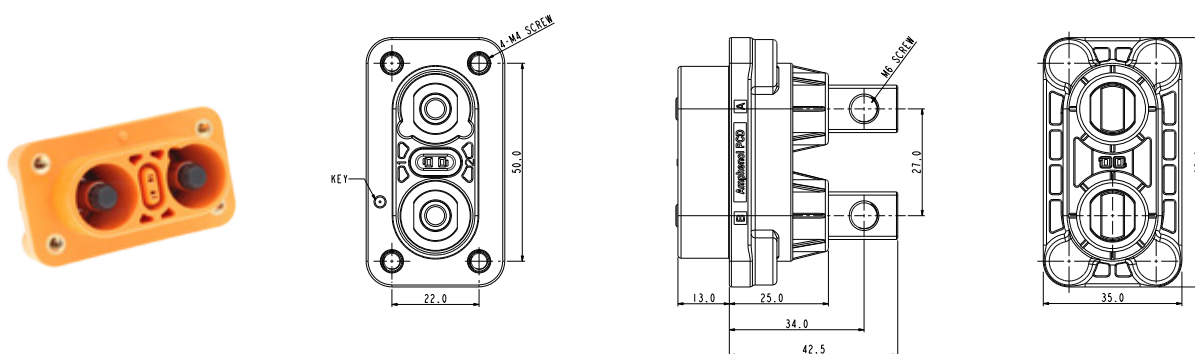
## MATERIAL

Housing	Metal
---------	-------

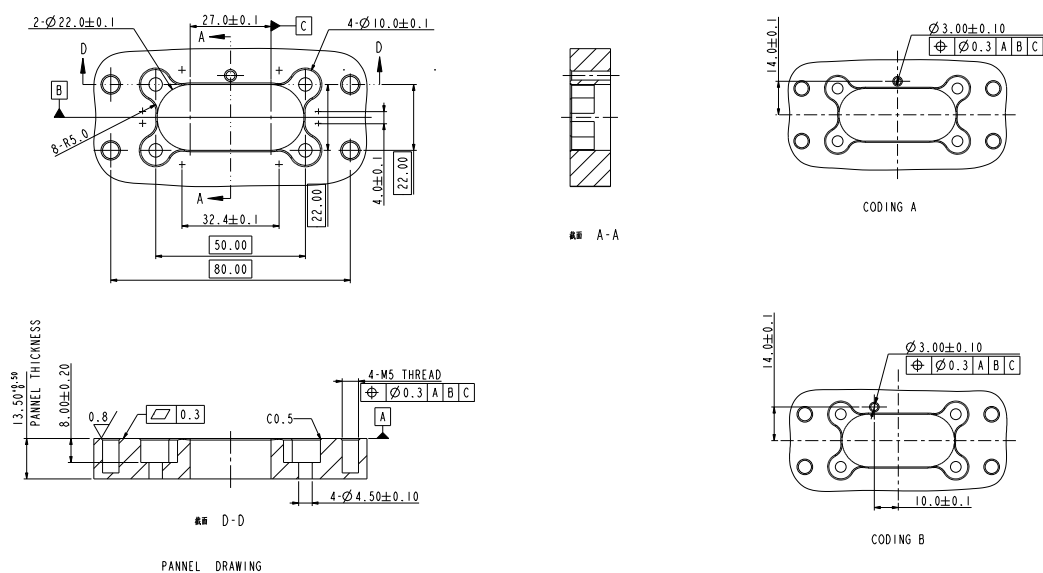
## HVPC 800 PLUG



## HVPC 800 RECEPTACLE



## PANEL MOUNTING DIMENSION



# HOW TO ORDER (HVPC 800)

## HOW TO ORDER: PLUG

	HVPC 800	06	2	A	1	35
<b>Product type:</b>						
<b>06:</b> Plug						
<b>Position:</b>						
<b>2:</b> 2 positions						
<b>Coding:</b>						
<b>A:</b> Coding A						
<b>B:</b> Coding B						
<b>HVIL:</b>						
<b>0:</b> Without HVIL						
<b>1:</b> With HVIL						
<b>Wire type:</b>						
<b>35:</b> 35mm <sup>2</sup> shielded wire						
<b>50:</b> 50mm <sup>2</sup> shielded wire						

## HOW TO ORDER: RECEPTACLE

	HVPC 800	02	2	A	1	H6
<b>Product type:</b>						
<b>02:</b> Receptacle						
<b>Position:</b>						
<b>2:</b> 2 positions						
<b>Coding:</b>						
<b>A:</b> Coding A						
<b>B:</b> Coding B						
<b>HVIL:</b>						
<b>0:</b> Without HVIL						
<b>1:</b> With HVIL						
<b>Wire type:</b>						
<b>H6:</b> M6 OT terminal						

## HVPC 18



### KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

Multiple coding positions

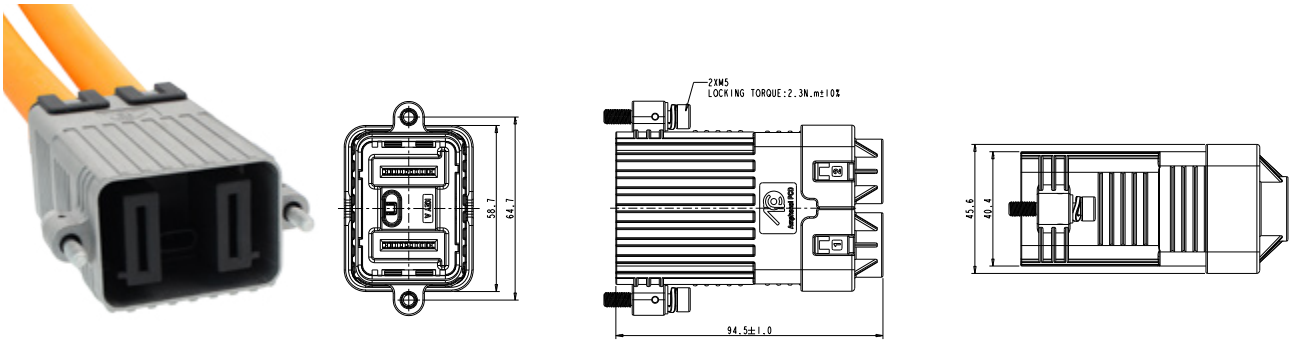
360° shielded from wire to device

Economical

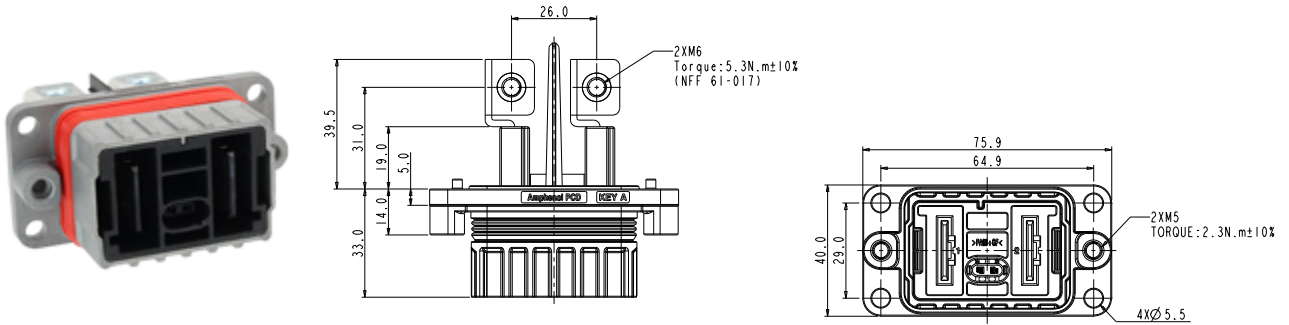
MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	35 to 70 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimp
HVIL	Integrated
ELECTRICAL	
Rated voltage	1000V DC
Rated current	Max 250A @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Temperature range	-40°C to 125°C
Salt spray	96 hours
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Housing	Metal

# Excel|Mate PT (HVPC 18)

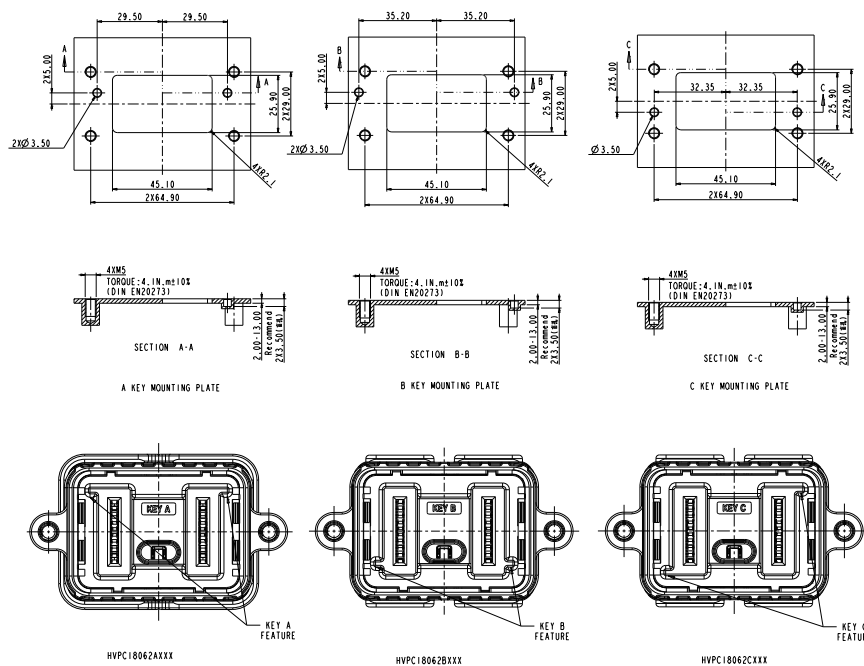
## HVPC 18 PLUG



## HVPC 18 RECEPTACLE



## PANEL MOUNTING DIMENSIONS



## HOW TO ORDER: PLUG

	HVPC 18	06	2	A	1	35
<b>Product type:</b>	06: Plug					
<b>Position:</b>	2: 2 positions					
<b>Coding:</b>	A: Coding A B: Coding B C: Coding C					
<b>HVIL:</b>	0: Without HVIL 1: With HVIL					
<b>Wire type:</b>	35: 35mm <sup>2</sup> shielded wire 50: 50mm <sup>2</sup> shielded wire 70: 70mm <sup>2</sup> shielded wire					

## HOW TO ORDER: RECEPTACLE

	HVPC 18	02	2	A	1	H6	S01
<b>Product type:</b>	02: Receptacle						
<b>Position:</b>	2: 2 positions						
<b>Coding:</b>	A: Coding A B: Coding B C: Coding C						
<b>HVIL:</b>	0: Without HVIL 1: With HVIL						
<b>Wire type:</b>	H6: M6 OT terminal						
<b>Version:</b>	S01						

# Excel|Mate S (HVSLF 10)

HVSLF 10



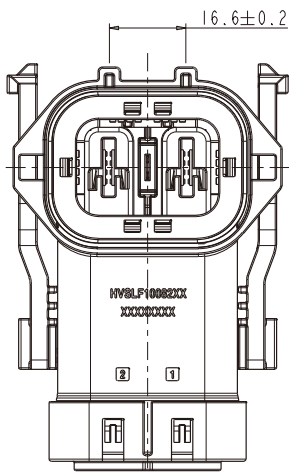
## KEY FEATURES

- Easy to install, reliable connection
- Sealing, IP67, IP6K9K (mated)
- Multiple coding positions
- 360° shielded from wire to device
- Economical

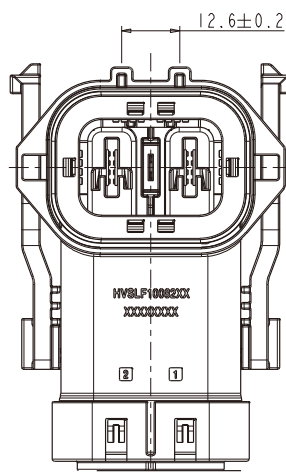
MECHANICAL	
Durability	50 mating cycles
Wire range	16 to 25 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimp
HVIL	Integrated
ELECTRICAL	
Rated voltage	1000V DC
Rated current	125A (25mm <sup>2</sup> cable) 100A (16mm <sup>2</sup> cable) @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Housing	Thermoplastics
Contacts	Copper alloy, silver plating
Cables	Ultrasonic welding with copper wiring (aluminium optional)



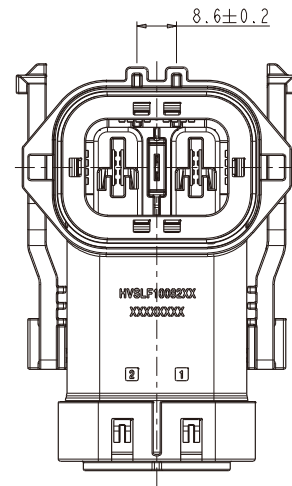
INSERT ORIENTATION



Coding A  
HVSLF10 062 A

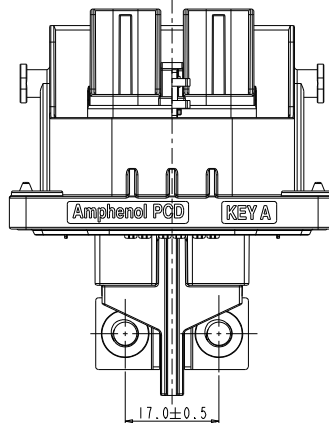
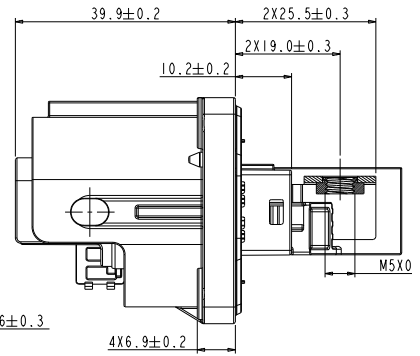
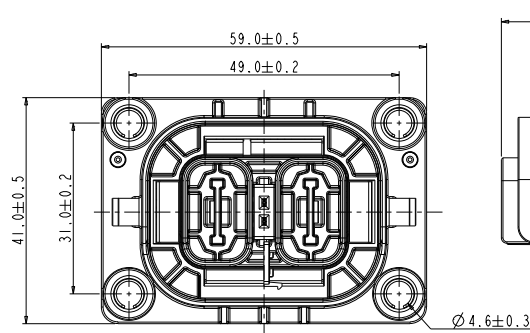


Coding B  
HVSLF10 062 B

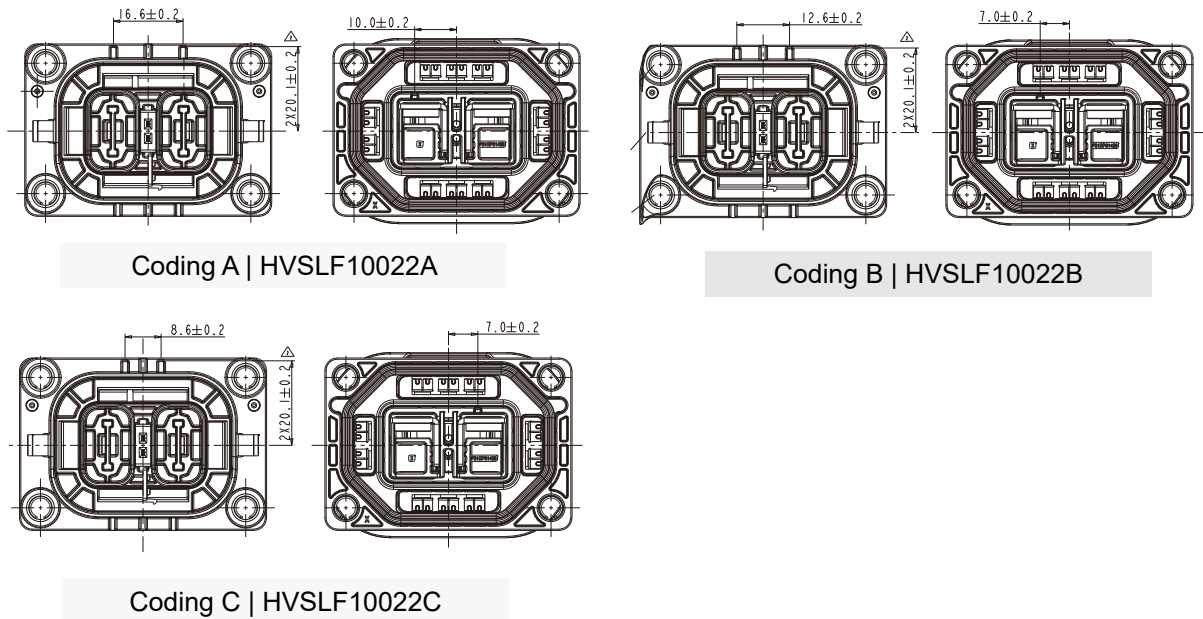


Coding C  
HVSLF10 062 C

HVSLF 18 RECEPTACLE



## INSERT ORIENTATION



## HOW TO ORDER: PLUG

	HVSLF 10	06	2	A	1	01
<b>Product type:</b>	<b>06:</b> Straight plug <b>08:</b> Right angle plug					
<b>Position:</b>	<b>2:</b> 2 positions					
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A   <b>B:</b> Coding B   <b>C:</b> Coding C					
<b>Interlock:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock					
<b>Cable size:</b>	<b>01:</b> 25mm <sup>2</sup> , OD: 11.9 ± 0.3mm <b>02:</b> 16mm <sup>2</sup> , OD: 9.9 ± 0.3mm					

## HOW TO ORDER: RECEPTACLE

	HVSLF 10	02	2	A	1	01
<b>Product type:</b>	<b>02:</b> Receptacle					
<b>Position:</b>	<b>2:</b> 2 positions					
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A   <b>B:</b> Coding B   <b>C:</b> Coding C					
<b>Interlock:</b>	<b>0:</b> Without HVIL <b>1:</b> With HVIL					
<b>Wire type:</b>	<b>01:</b> Copper bar (M5X0.8)					

# Excel|Mate S (HVSLF 18)

HVSLF 18



## KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

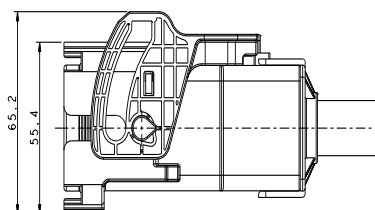
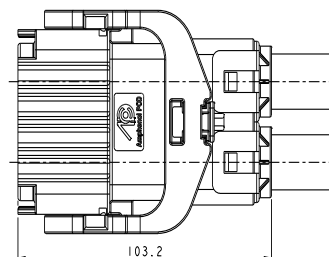
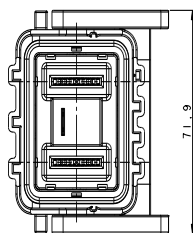
Multiple coding positions

360° shielded from wire to device

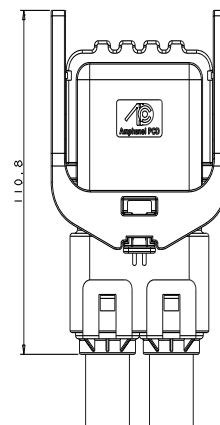
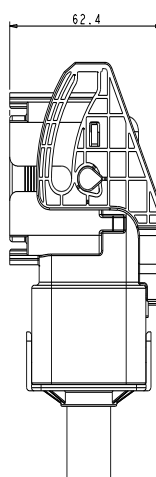
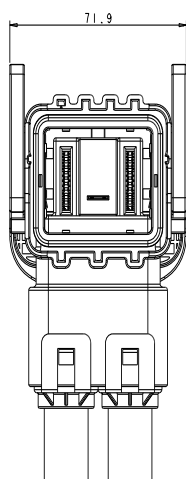
Economical

MECHANICAL	
Durability	50 mating cycles
Wire range	25 to 70 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Ultrasonic welding
HVIL	Integrated
ELECTRICAL	
Rated voltage	1000V DC
Rated current	Max 270A @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Temperature range	-40°C to 125°C
Salt spray	96 hours
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Housing	Thermoplastics
Contacts	Copper alloy, silver plating
Cables	Ultrasonic welding with copper wiring (aluminium optional)

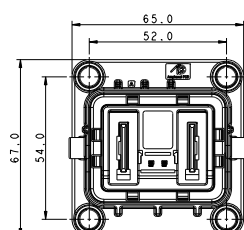
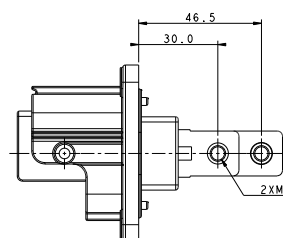
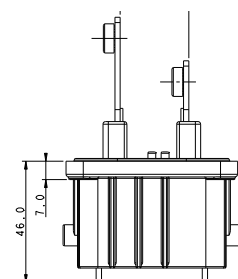
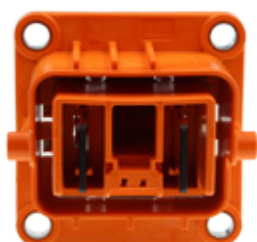
HVSLF 18 STRAIGHT PLUG



HVSLF 18 RIGHT-ANGLE PLUG



HVSLF 18 RECEPTACLE



# HOW TO ORDER (HVSLF 18)

## HOW TO ORDER: PLUGS

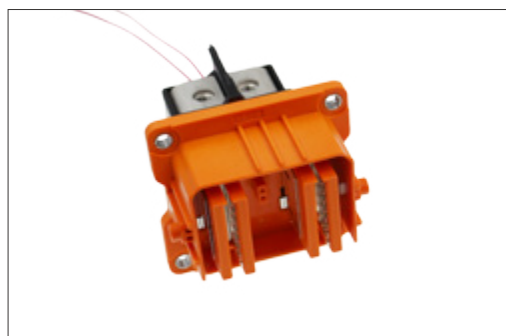
	HVSLF 18	06	2	A	1	35
<b>Product type:</b>						
06: Straight Plug						
<b>Position:</b>						
2: 2 positions						
<b>Coding:</b>						
A: Coding A      C: Coding C						
B: Coding B      D: Coding D						
<b>HVIL:</b>						
0: Without HVIL						
1: With HVIL						
<b>Wire type:</b>						
25: 25mm <sup>2</sup> shielded wire						
50: 50mm <sup>2</sup> shielded wire						
70: 70mm <sup>2</sup> shielded wire						

	HVSLF 18	08	2	A	1	35
<b>Product type:</b>						
08: Right-Angle Plug						
<b>Position:</b>						
2: 2 positions						
<b>Coding:</b>						
A: Coding A      C: Coding C						
B: Coding B      D: Coding D						
<b>HVIL:</b>						
0: Without HVIL						
1: With HVIL						
<b>Wire type:</b>						
35: 35mm <sup>2</sup> shielded wire						
50: 50mm <sup>2</sup> shielded wire						
70: 70mm <sup>2</sup> shielded wire						

## HOW TO ORDER: RECEPTACLE

	HVSLF 18	02	2	A	1	H6
<b>Product type:</b>						
02: Receptacle						
<b>Position:</b>						
2: 2 positions						
<b>Coding:</b>						
A: Coding A      C: Coding C						
B: Coding B      D: Coding D						
<b>HVIL:</b>						
0: Without HVIL						
1: With HVIL						
<b>Wire type:</b>						
H6: M6 OT terminal						

## HVSLF 300



### KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

Multiple coding positions

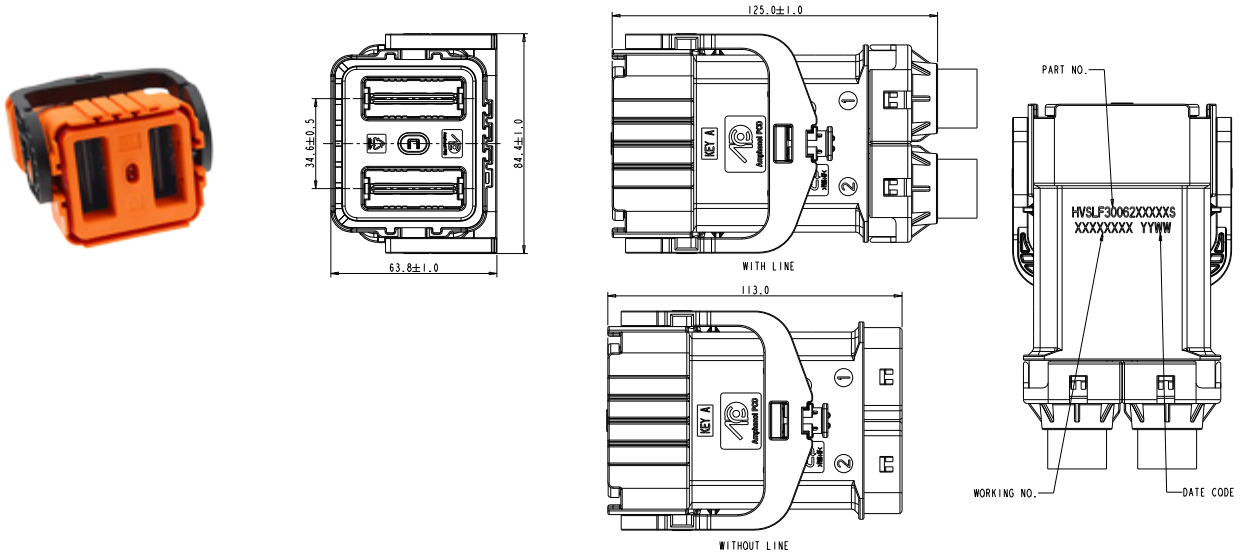
360° shielded from wire to device

Economical

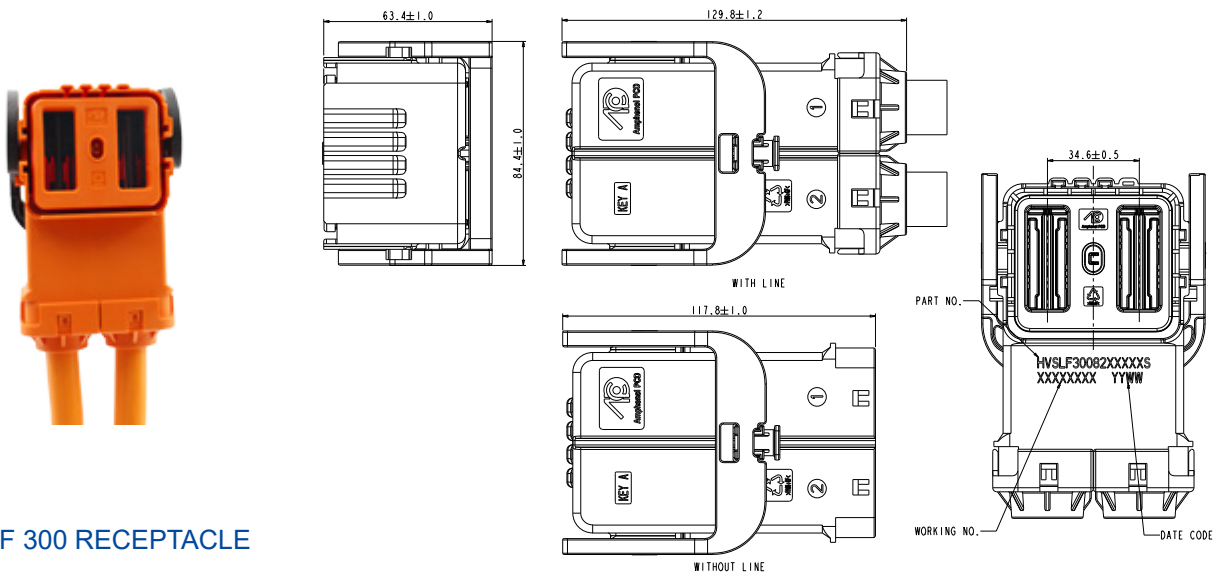
MECHANICAL	
Durability	50 mating cycles
Wire range	95 to 120 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Ultrasonic welding
HVIL	Integrated
ELECTRICAL	
Rated voltage	1000V DC
Rated current	Max 430A @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Temperature range	-40°C to 125°C
Salt spray	96 hours
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Housing	Thermoplastics
Contacts	Copper alloy, silver plating
Cables	Ultrasonic welding with copper wiring (aluminium optional)

# Excel|Mate S (HVSLF 300)

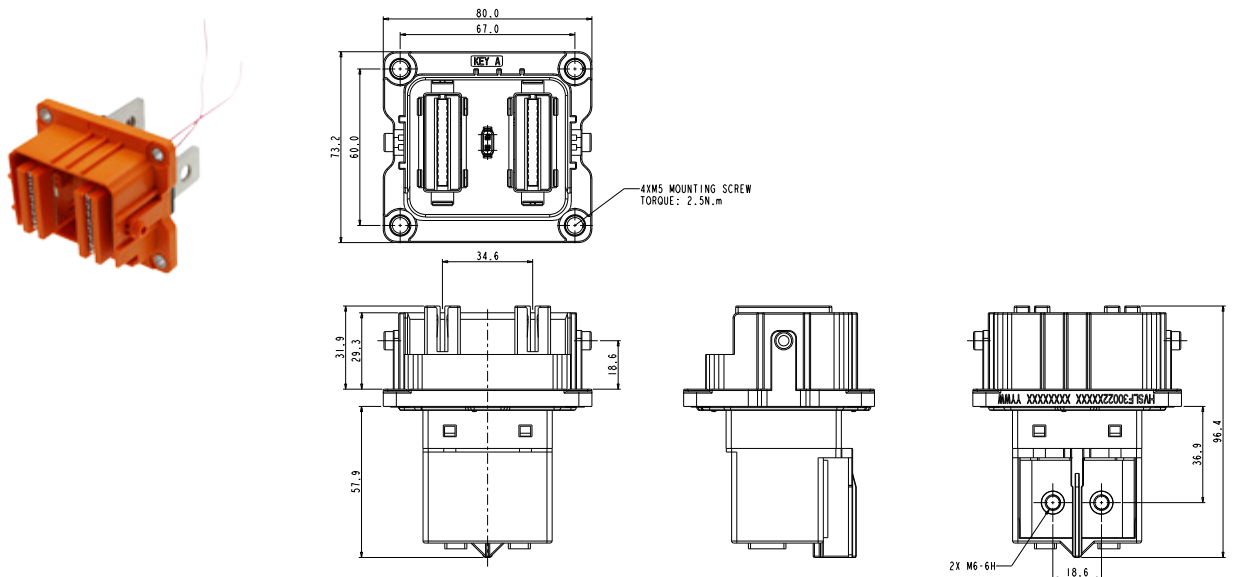
## HVSLF 300 STRAIGHT PLUG



## HVSLF 300 RIGHT-ANGLE PLUG



## HVSLF 300 RECEPTACLE



## HOW TO ORDER: PLUGS

HVSLF 300	06	2	A	1	095	S
<b>Product type:</b>						
06: Straight Plug						
<b>Position:</b>						
2: 2 positions						
<b>Coding:</b>						
A: Coding A		C: Coding C				
B: Coding B		D: Coding D				
<b>HVIL:</b>						
0: Without HVIL						
1: With HVIL						
<b>Wire range:</b>						
095: 95mm <sup>2</sup> shielded wire						
120: 120mm <sup>2</sup> shielded wire						
<b>Wire type:</b>						
S: shielded wire (optional)						

HVSLF 300	08	2	A	1	095	S
<b>Product type:</b>						
08: Right-Angle Plug						
<b>Position:</b>						
2: 2 positions						
<b>Coding:</b>						
A: Coding A		C: Coding C				
B: Coding B		D: Coding D				
<b>HVIL:</b>						
0: Without HVIL						
1: With HVIL						
<b>Wire range:</b>						
095: 95mm <sup>2</sup> shielded wire						
120: 120mm <sup>2</sup> shielded wire						
<b>Wire type:</b>						
S: shielded wire (optional)						

## HOW TO ORDER: RECEPTACLE

HVSLF 300	02	2	A	1	H6
<b>Product type:</b>					
02: Receptacle					
<b>Position:</b>					
2: 2 positions					
<b>Coding:</b>					
A: Coding A		C: Coding C			
B: Coding B		D: Coding D			
<b>HVIL:</b>					
0: Without HVIL					
1: With HVIL					
<b>Wire type:</b>					
H6: M6 OT terminal					

# Excel|Mate Eco (HVSL 600)

Excel|Mate Eco (HVSL600)



## HVSL600

**HVSL600** is a single pin connector with a current carrying capacity of 120A and 25mm<sup>2</sup> crimping cable. It can be utilized with multi-core or individually shielded wire. An integrated internal HVIL with multiple routing options allows package size optimization and flexibility.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 120A@ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

Multiple coding positions

CPA available

### MECHANICAL

Durability	≥ 50 mating cycles
Wire range	25mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimping or bus-bar
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available

### ELECTRICAL

Rated voltage	1000V DC
Rated current	120A @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device

### ENVIRONMENTAL

Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C

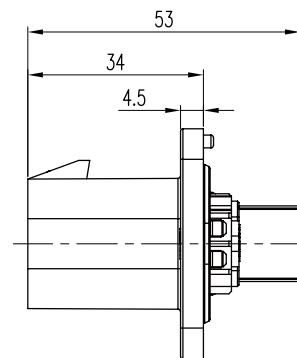
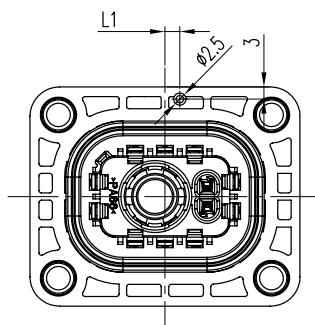
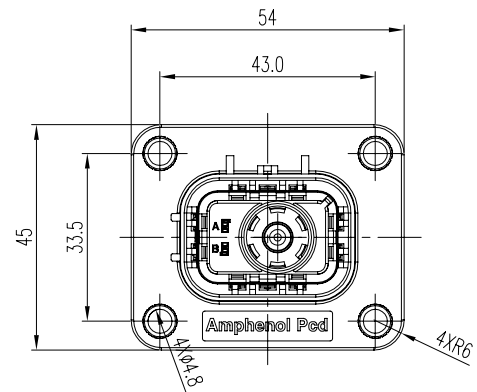
### STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

### MATERIAL

Terminals	Copper/copper alloy with silver plating
Housing	PA66 + GF

RECEPTACLE



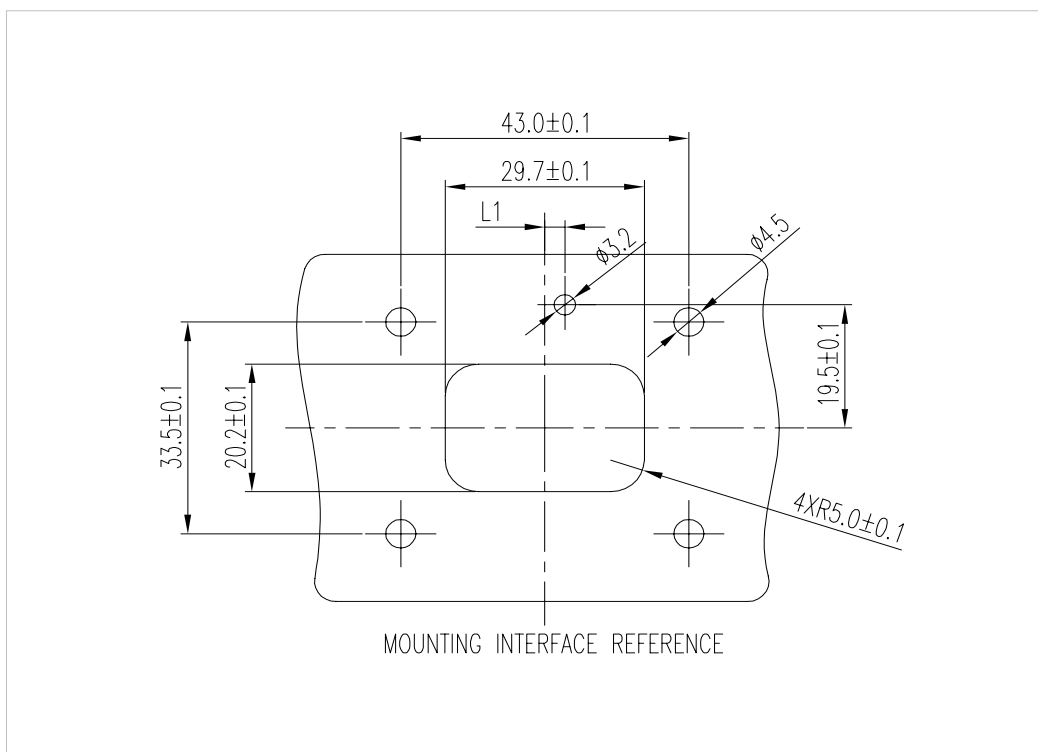
CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

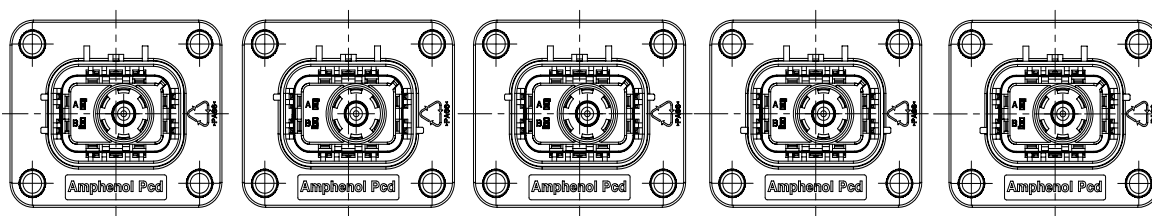
Pin contact: crimping	Pin contact: end with bus-bar	Pin signal contact (HVIL)
P/N: C420003621	P/N: C420003625	P/N: C310003613S
25mm <sup>2</sup> unshielded wire	OT terminal	0.5mm <sup>2</sup> unshielded wire

PANEL MOUNTING DIMENSIONS

CODING	A	B	C	D	E
L1 (Panel mount)	0	-3	-6	3	6

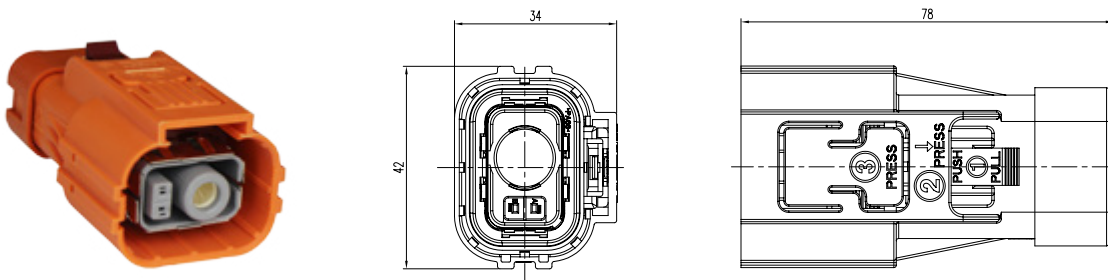


INSERT ORIENTATIONS



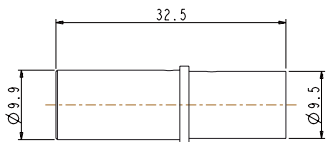
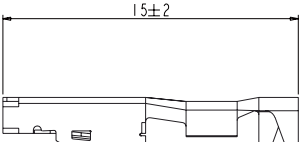
	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL600 02 A	HVSL600 02 B	HVSL600 02 C	HVSL600 02 D	HVSL600 02 E

## PLUG

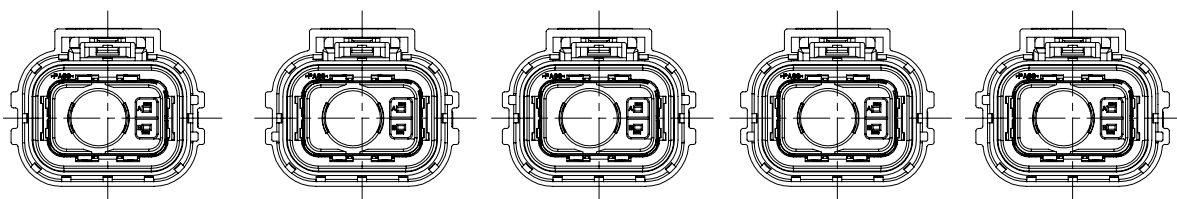


## CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

Socket contact	Socket signal contact (HVIL)
P/N: C420003620	P/N: C310003614S
	
25mm <sup>2</sup> shielded wire	0.5mm <sup>2</sup> unshielded wire

## INSERT ORIENTATIONS



	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL600 06 1 A	HVSL600 06 1 B	HVSL600 06 1 C	HVSL600 06 1 D	HVSL600 06 1 E

# HOW TO ORDER (HVSL 600)

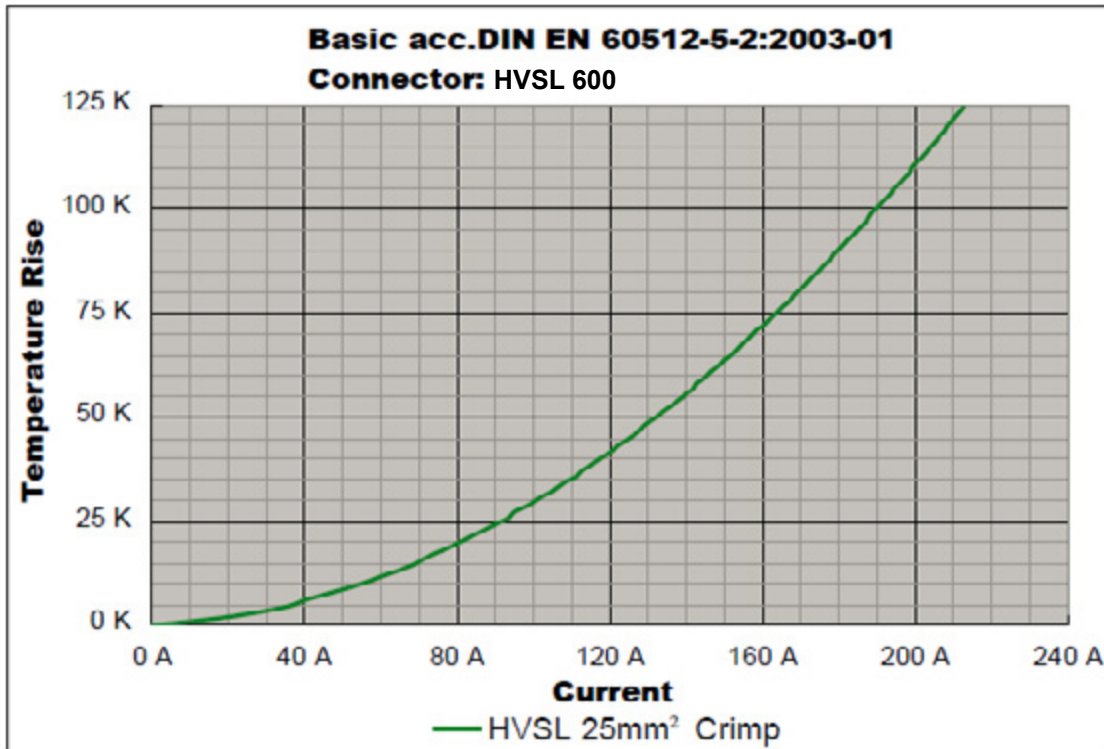
## HOW TO ORDER: PLUG

	HVSL600	06	1	A	0	25	10
<b>Product type:</b>	<b>06:</b> Straight plug						
<b>Position:</b>	<b>1:</b> 1 position						
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C <b>D:</b> Coding D <b>E:</b> Coding E						
<b>HVIL:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock						
<b>Cable size:</b>	<b>25:</b> 25mm <sup>2</sup>						
<b>Cable OD:</b>	<b>10:</b> 10 ± 0.5mm <b>11:</b> 11 ± 0.5mm <b>12:</b> 12 ± 0.5mm <b>13:</b> 13 +0/-0.5mm						

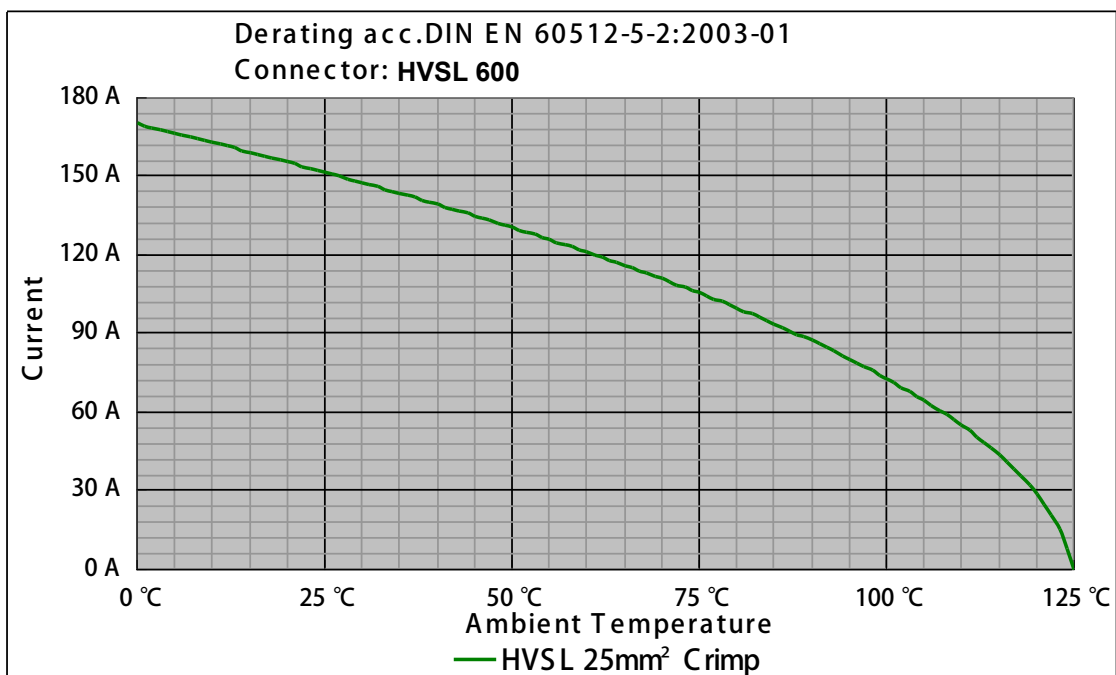
## HOW TO ORDER: RECEPTACLE

	HVSL600	02	1	A	0	25
<b>Product type:</b>	<b>02:</b> Box mounted receptacle					
<b>Position:</b>	<b>1:</b> 1 position					
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C <b>D:</b> Coding D <b>E:</b> Coding E					
<b>HVIL:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock					
<b>Cable size:</b>	<b>25:</b> 25mm <sup>2</sup> <b>H6:</b> OT terminal					

HVSL 600 | Temperature Rise



HVSL 600 | Derating Curve



Remark: tests carried out on the complete connector.

# Excel|Mate Eco (HVSL 630)

Excel|Mate Eco (HVSL630)



## HVSL630

**HVSL630** is a 2 position connector with a current carrying capacity from 23 to 40A and 4 to 6mm<sup>2</sup> crimping cable.

Specially designed for DC-DC, air-conditioner, and others HEV devices' equipment.

## KEY FEATURES

Integrated internal HVIL

Current rating up to 40A@ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

Multiple coding positions

CPA available

## MECHANICAL

Durability	≥ 50 mating cycles
Wire range	4 to 6 mm <sup>2</sup> shielded cable
Insertion and extraction force	< 100N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available

## ELECTRICAL

Rated voltage	1000V DC
Rated current	40A Max @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device

## ENVIRONMENTAL

Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C

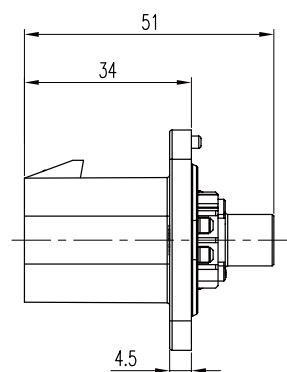
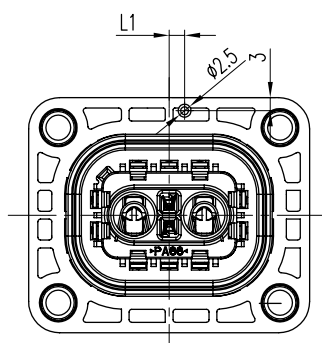
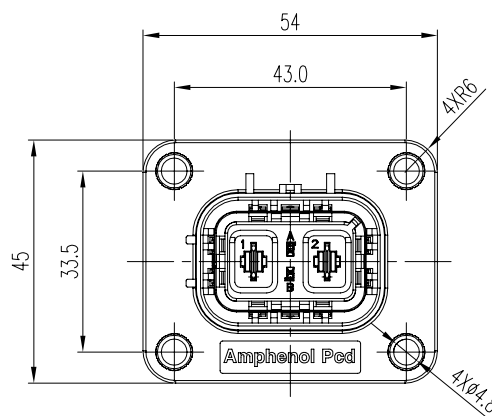
## STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

## MATERIAL

Terminals	Copper/copper alloy with tin plating
Housing	PA66 + GF

RECEPTACLE



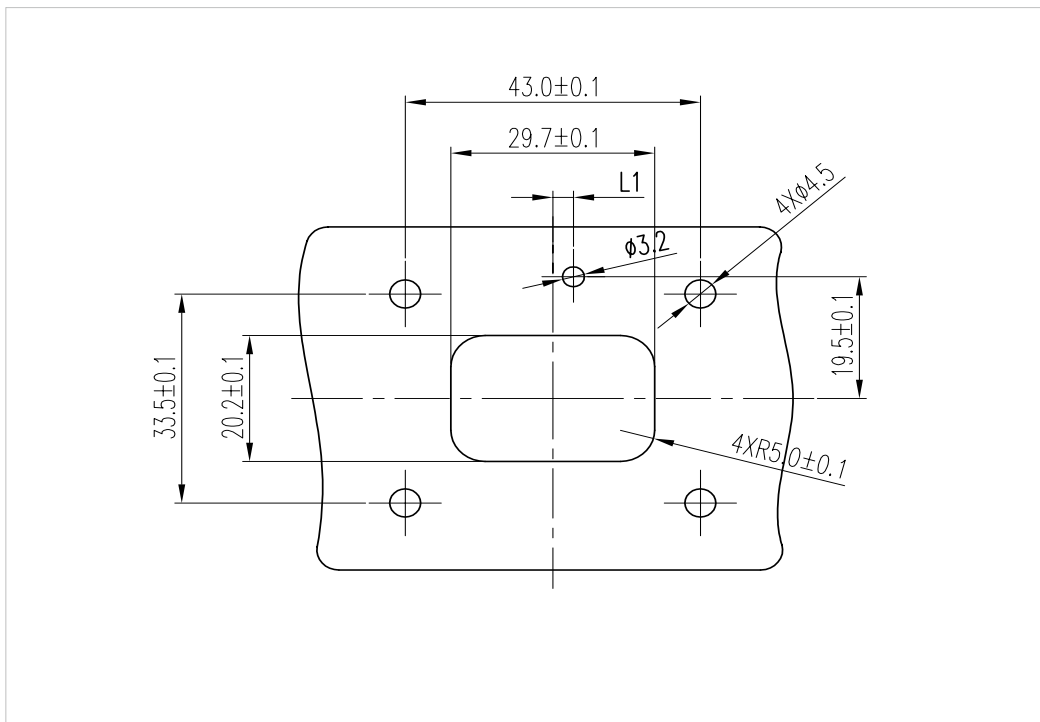
CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

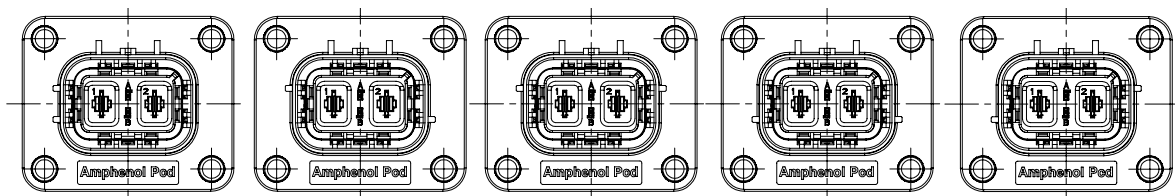
Pin contact: crimping	HVIL CONTACTS
P/N: C310003622S	P/N: C310003613S
4 to 6mm <sup>2</sup> unshielded wire	0.5mm <sup>2</sup> unshielded wire

PANEL MOUNTING DIMENSION

CODING	A	B	C	D	E
L1 (Panel mount)	0	-3	-6	3	6

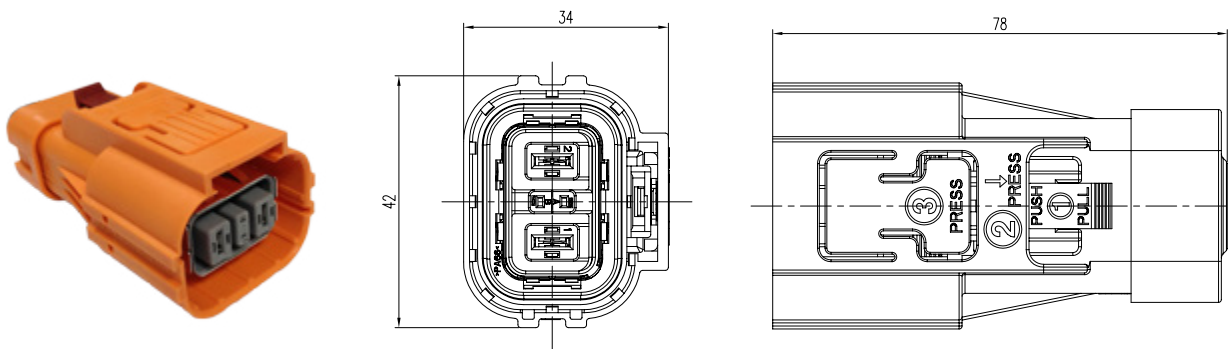


INSERT ORIENTATIONS

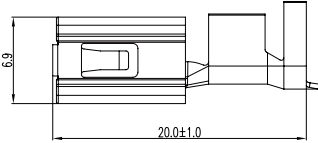
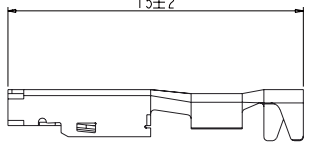


	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL630 02 2 A	HVSL630 02 2 B	HVSL630 02 2 C	HVSL630 02 2 D	HVSL630 02 2 E

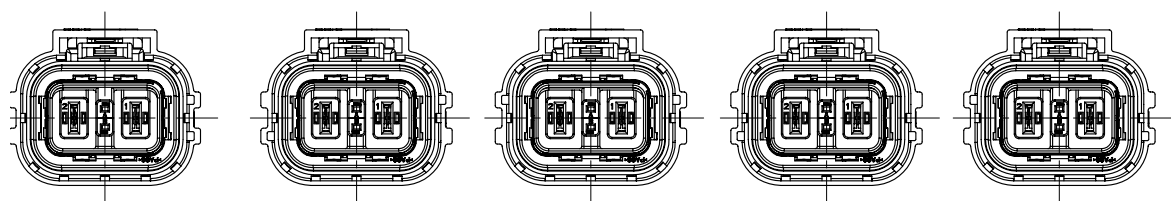
PLUG



CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)	
Socket contact	Socket signal contact (HVIL)
P/N: C310003623S	P/N: C310003614S
	
4 to 6mm <sup>2</sup> shielded wire	0.5mm <sup>2</sup> unshielded wire

INSERT ORIENTATIONS



	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL630 06 2 A	HVSL630 06 2 B	HVSL630 06 2 C	HVSL630 06 2 D	HVSL630 06 2 E

# HOW TO ORDER (HVSL 630)

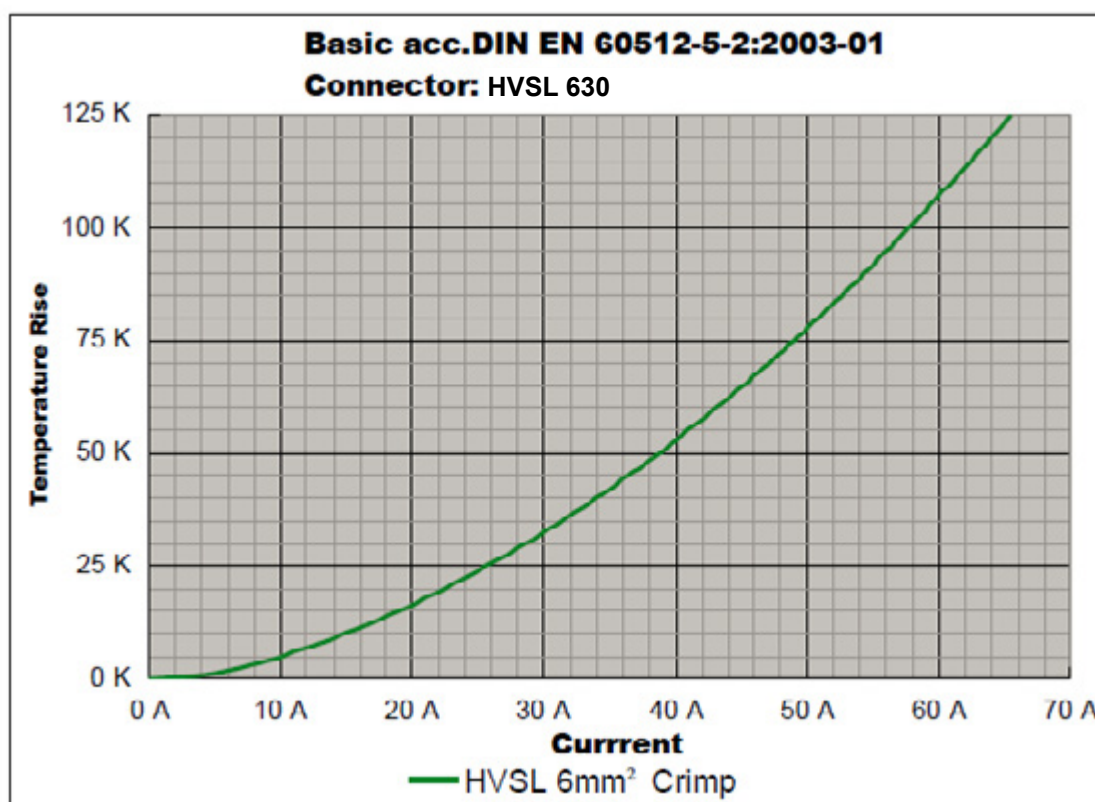
## HOW TO ORDER: PLUG

	HVSL630	06	2	A	0	04	10
<b>Product type:</b>	<b>06:</b> Straight plug						
<b>Position:</b>	<b>2:</b> 2 positions						
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C <b>D:</b> Coding D <b>E:</b> Coding E						
<b>HVIL:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock						
<b>Cable size:</b>	<b>04:</b> 4mm <sup>2</sup> <b>06:</b> 6mm <sup>2</sup>						
<b>Cable OD:</b>	<b>10:</b> 10 ± 0.5mm <b>11:</b> 11 ± 0.5mm <b>12:</b> 12 ± 0.5mm <b>13:</b> 13 +0/-0.5mm						

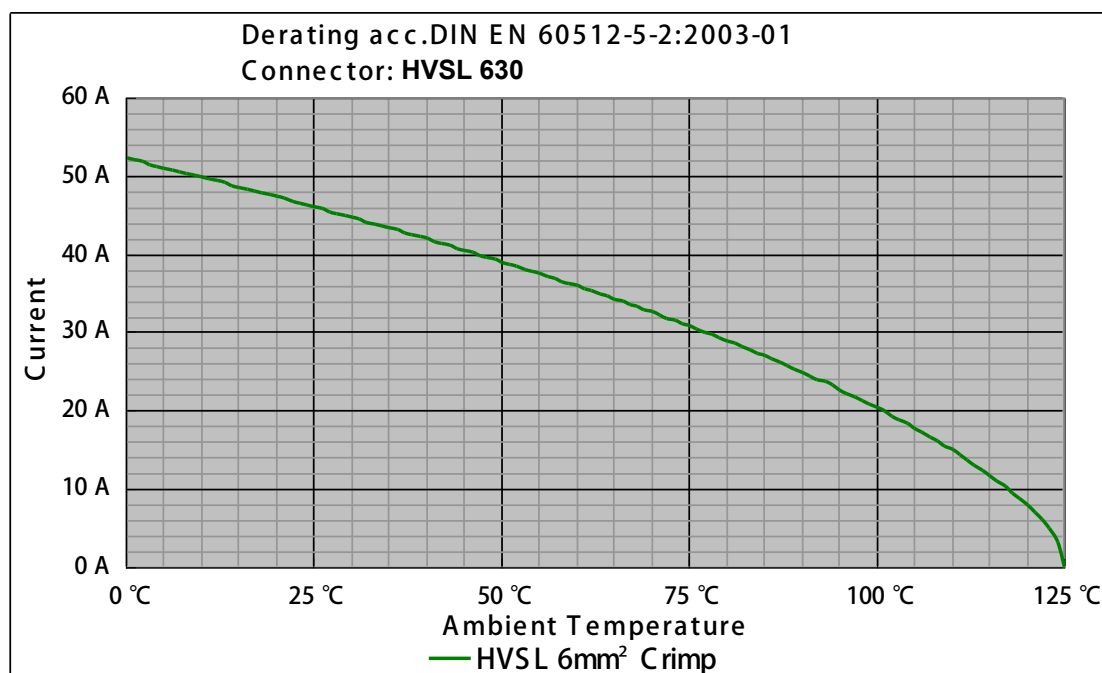
## HOW TO ORDER: RECEPTACLE

	HVSL630	02	2	A	0	04
<b>Product type:</b>	<b>02:</b> Box mounted receptacle					
<b>Position:</b>	<b>2:</b> 2 positions					
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C <b>D:</b> Coding D <b>E:</b> Coding E					
<b>HVIL:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock					
<b>Power contact:</b>	<b>04:</b> 4mm <sup>2</sup> <b>06:</b> 6mm <sup>2</sup>					

HVSL 630 | Temperature Rise



HVSL 630 | Derating Curve



Remark: tests carried out on the complete connector.

# EXCEL | MATE Eco (HVSL 633)

EXCEL | MATE (HVSL633 3 pin connector)



## HVSL633

**HVSL633** is a 3 position connector with a current carrying capacity from 23 to 40A and 2.5 to 6mm<sup>2</sup> crimping cable.

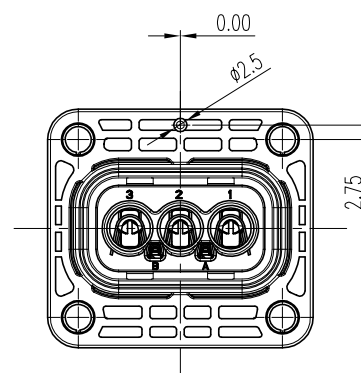
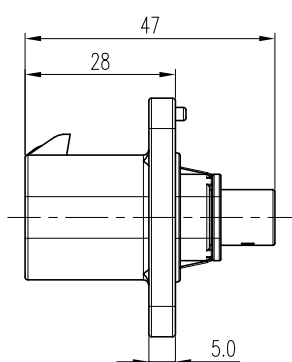
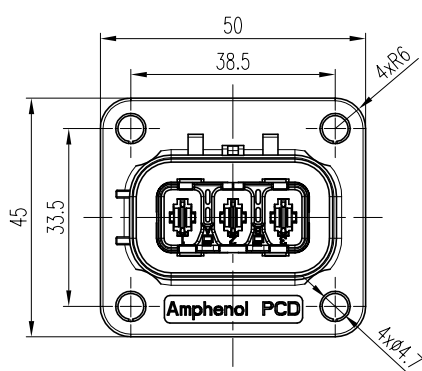
Specially designed for DC-DC, air-conditioner, and others HEV devices' equipment.

### KEY FEATURES

- Integrated internal HVIL
- Current rating up to 40A@ ambient temperature 70°C
- Two-stage, tool or thumb activated latching
- No tool required to unmate
- Sealing, IP67, IP6K9K (mated)
- Touch-proof, IP2XB
- Multiple coding positions
- CPA available

MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	2.5 to 6 mm <sup>2</sup> shielded wire (2.5mm <sup>2</sup> only for plug) 2.5mm <sup>2</sup> multicore wire
Insertion and extraction force	< 75N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available
ELECTRICAL	
Rated voltage	1000V DC
Rated current	40A Max @ ambient temperature 70°C
Insulator resistance	> 200MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Terminals	Copper/copper alloy
Housing	PA66 + GF

RECEPTACLE HVSL633



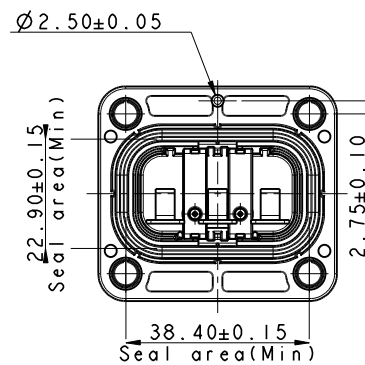
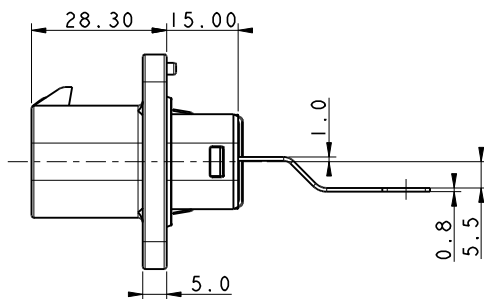
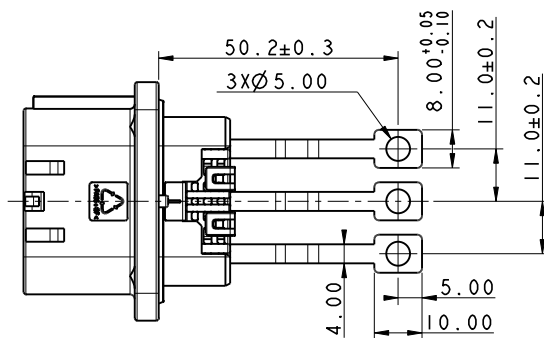
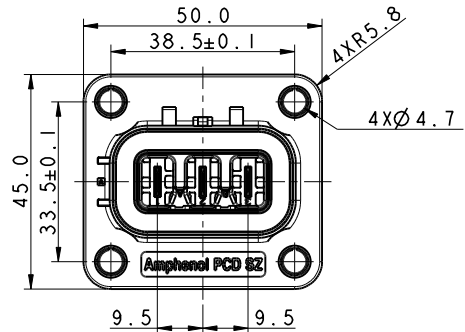
CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

Pin contact: crimping	Pin contact: crimping	Socket signal contact (HVIL)
P/N: C310023505	P/N: C310003622S	P/N: C310003614S
2.5mm <sup>2</sup> unshielded wire	4 to 6mm <sup>2</sup> unshielded wire	0.5mm <sup>2</sup> unshielded wire


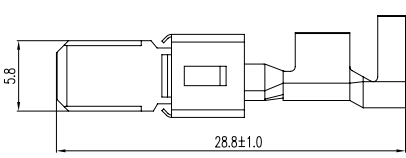
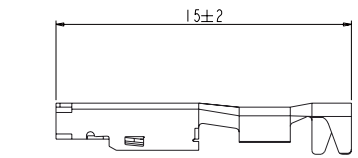
# Excel|Mate Eco (HVSLW 633)

## RECEPTACLE HVSLW633

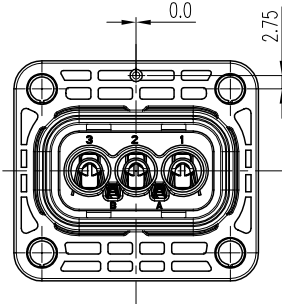
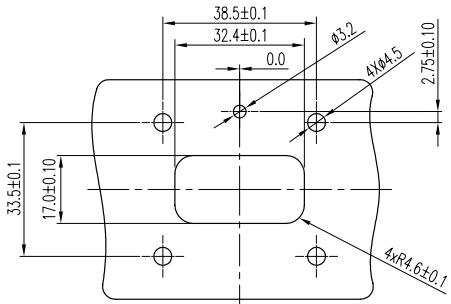
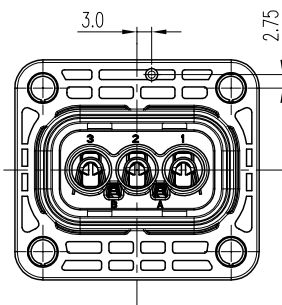
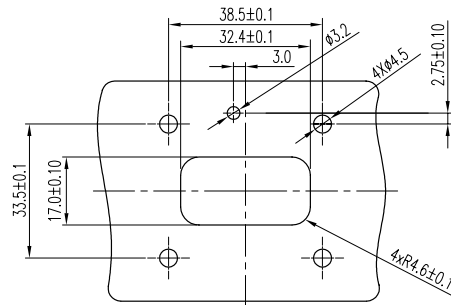
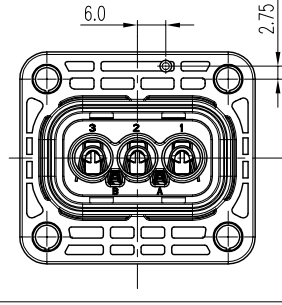
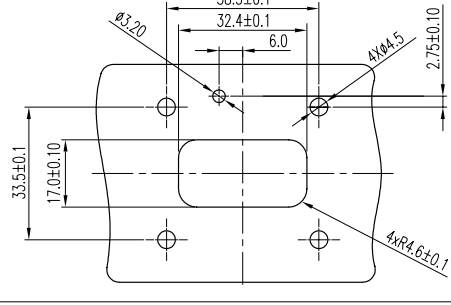
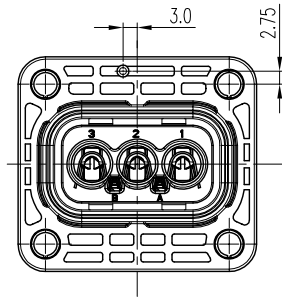
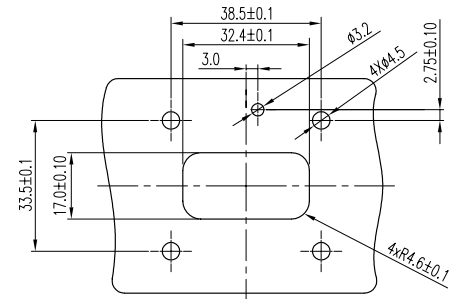
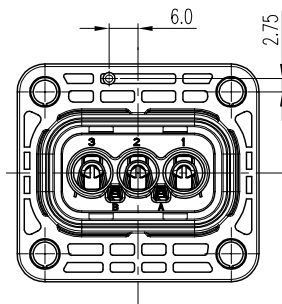
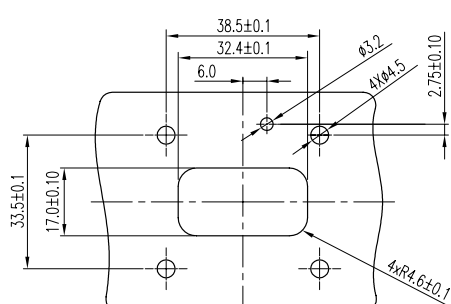


## CONTACTS

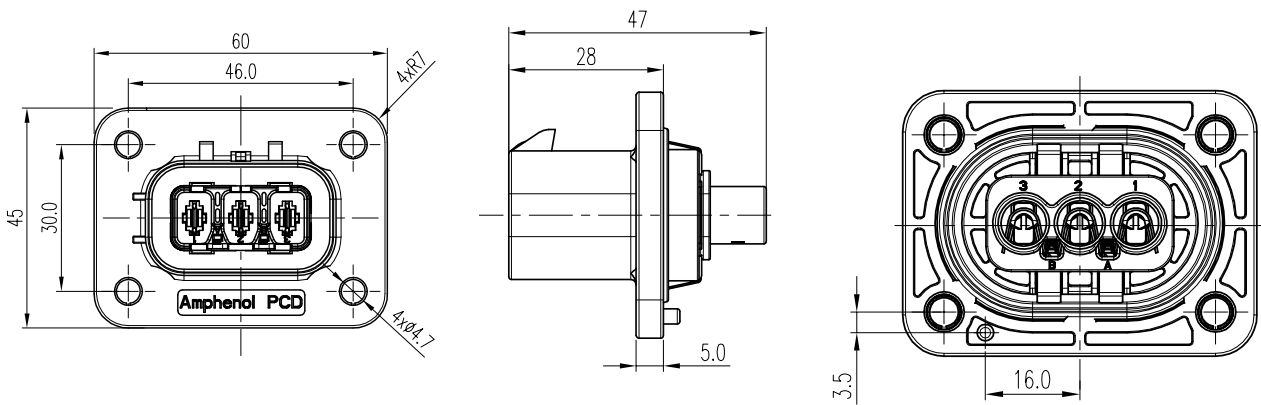
All connectors do not include contacts. Please order them separately (ref: P/N below)

All connectors do not include contacts. Please order them separately (ref: P/N below)		
Pin contact: crimping	Pin contact: crimping	Socket signal contact (HVIL)
P/N: C310023505	P/N: C310003622S	P/N: C310003614S
		
2.5mm <sup>2</sup> unshielded wire	4 to 6mm <sup>2</sup> unshielded wire	0.5mm <sup>2</sup> unshielded wire

PANEL MOUNTING DIMENSION

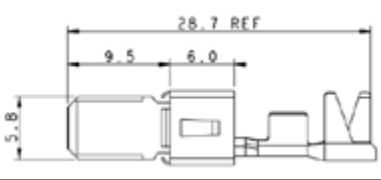
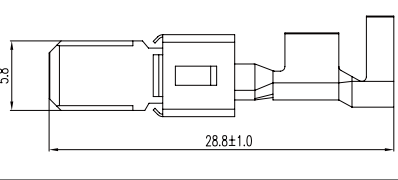
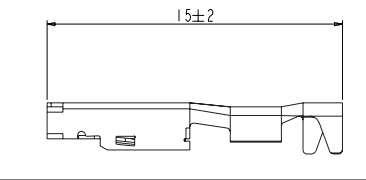
PART NUMBER	INSERT ORIENTATION	PANEL MOUNTING DIMENSION
HVSL633 023 A		
HVSL633 023 B		
HVSL633 023 C		
HVSL633 023 D		
HVSL633 023 E		

RECEPTACLE HVSLC633



CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

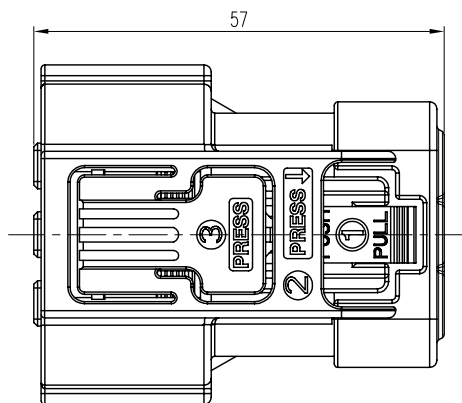
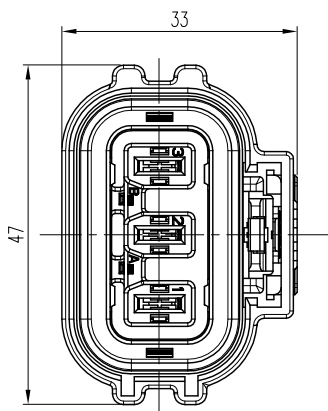
All connectors do not include contacts. Please order them separately (ref: P/N below)		
Pin contact: crimping	Pin contact: crimping	Socket signal contact (HVIL)
P/N: C310023505	P/N: C310003622S	P/N: C310003614S
		
2.5mm <sup>2</sup> unshielded wire	4 to 6mm <sup>2</sup> unshielded wire	0.5mm <sup>2</sup> unshielded wire

PANEL MOUNTING DIMENSION

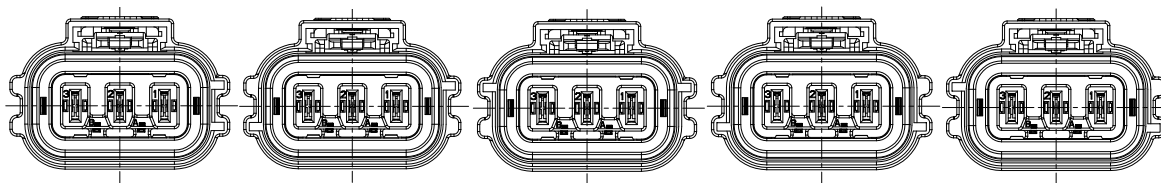
PART NUMBER	INSERT ORIENTATIONS	PANEL MOUNTED DIMENSION
HVSLC633 023 A		
HVSLC633 023 B		
HVSLC633 023 C		
HVSLC633 023 D		

# Excel|Mate Eco (HVSL 633)

## PLUG

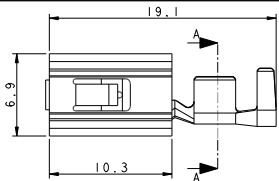
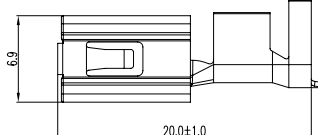


## INSERT ORIENTATIONS

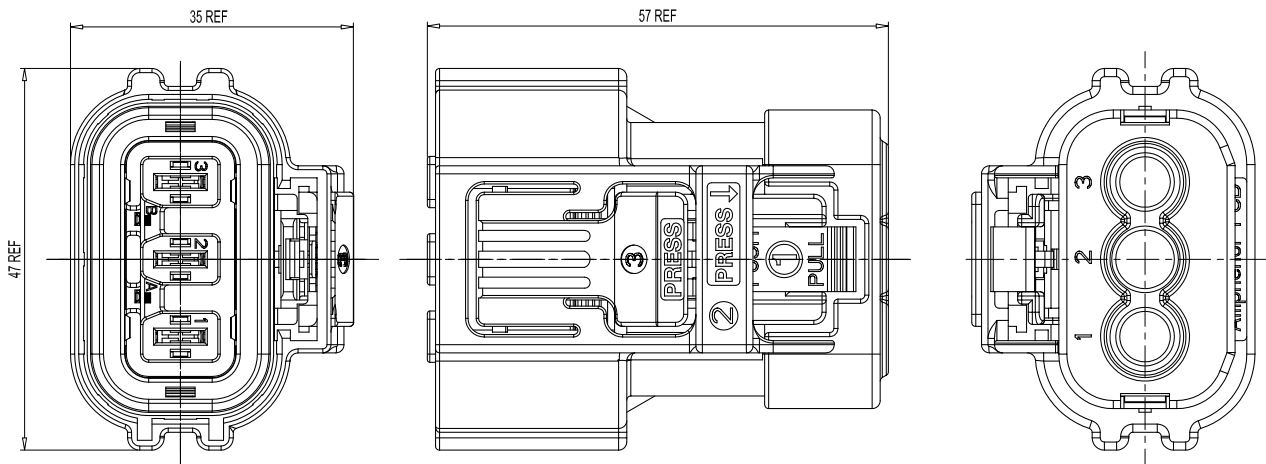


	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL633 06 3 A	HVSL633 06 3 B	HVSL633 06 3 C	HVSL633 06 3 D	HVSL633 06 3 E

## CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)		
Socket contact: crimping	Socket contact: crimping	HVIL contacts
P/N: C310023506	P/N: C310003623S	Integrated, no need to buy.
		
2.5mm <sup>2</sup> shielded wire	4 to 6mm <sup>2</sup> shielded wire	

DUMMY PLUG



	HVSL633	06	3	A	0	S1
<b>Product type:</b>	06: Straight plug					
<b>Position:</b>	3: 3 position					
<b>Coding / Alternate position:</b>	A: Coding A   D: Coding D B: Coding B   E: Coding E C: Coding C					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Dummy plug:</b>	S1					

# HOW TO ORDER (HVSL 633)

## HOW TO ORDER: PLUG

		HVSL633	06	3	A	0	04	I
<b>Product type:</b>	<b>06:</b> Straight plug							
<b>Position:</b>	<b>3:</b> 3 positions							
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A   <b>B:</b> Coding B   <b>C:</b> Coding C <b>D:</b> Coding D   <b>E:</b> Coding E							
<b>Interlock:</b>	<b>0:</b> Without interlock <b>1:</b> With shunted interlock <b>2:</b> With pass through interlock							
<b>Cable size:</b>	<b>03:</b> 2.5mm <sup>2</sup> <b>04:</b> 4mm <sup>2</sup> <b>06:</b> 6mm <sup>2</sup>							
<b>Wire type:</b>	<b>I:</b> Individually shielded wire							

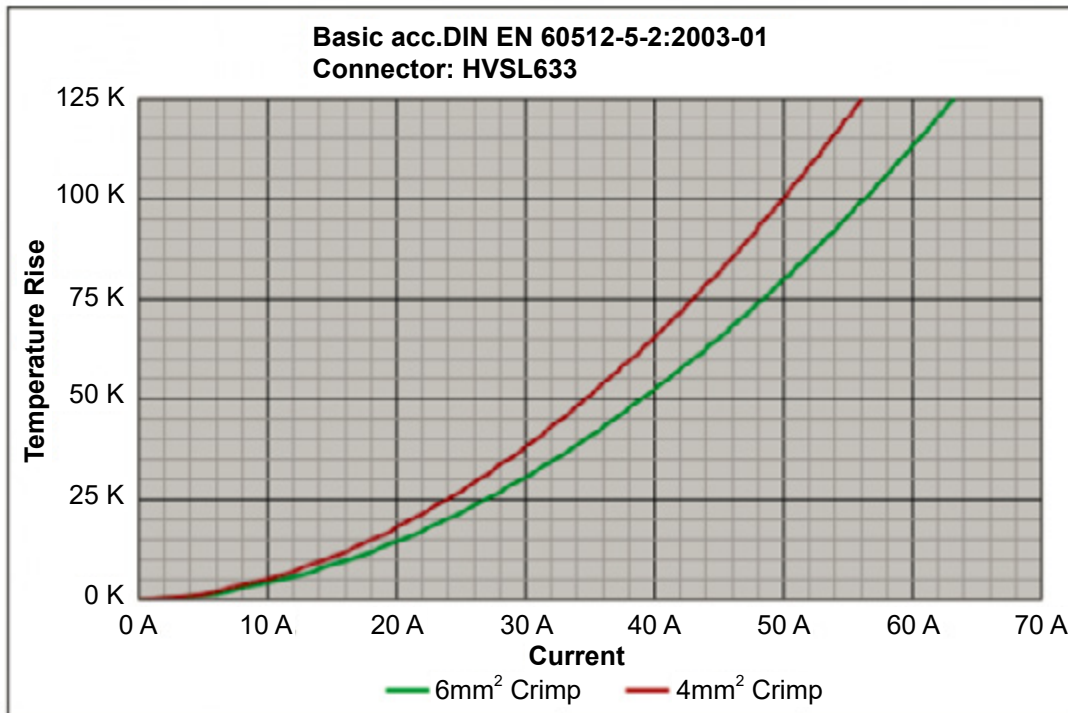
		HVSL633	06	3	A	0	04	M	S1
<b>Product type:</b>	<b>06:</b> Straight plug								
<b>Position:</b>	<b>3:</b> 3 positions								
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A   <b>B:</b> Coding B   <b>C:</b> Coding C								
<b>Interlock:</b>	<b>0:</b> Without interlock <b>1:</b> With shorted interlock								
<b>Cable size:</b>	<b>03:</b> 2.5mm <sup>2</sup>								
<b>Wire type:</b>	<b>M:</b> Multicore shielded wire								
<b>Customized wire:</b>	<b>S1</b>								

## HOW TO ORDER: RECEPTACLES

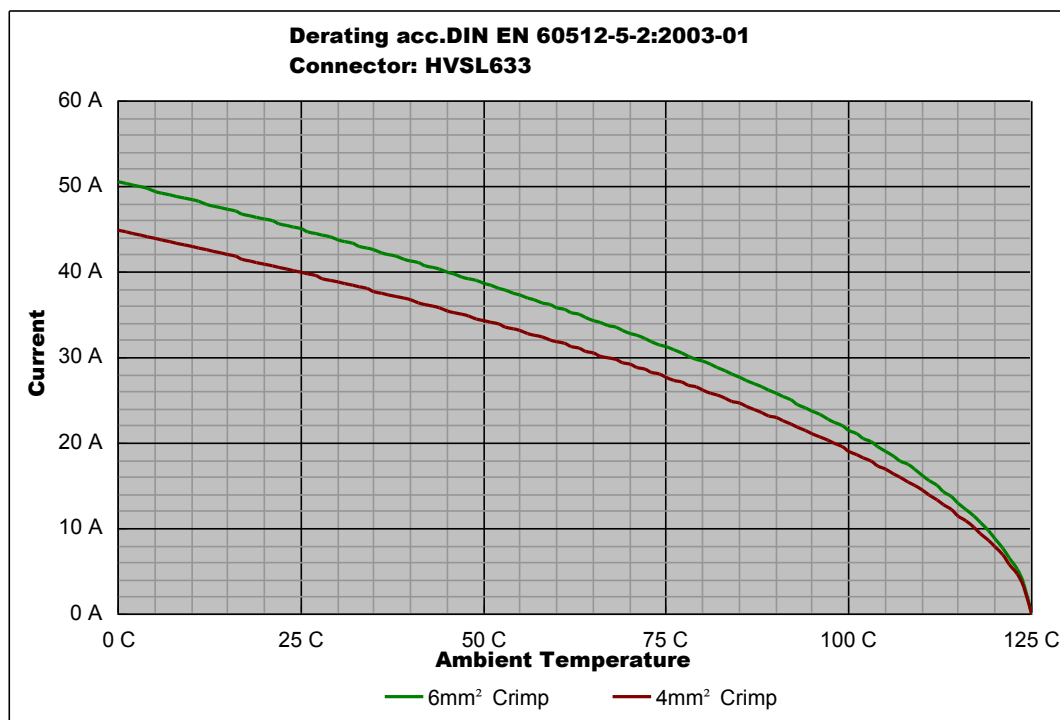
		HVSL633	02	3	A
<b>Product type:</b>	<b>02:</b> Box mounted receptacle				
<b>Position:</b>	<b>3:</b> 3 positions				
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A   <b>B:</b> Coding B   <b>C:</b> Coding C <b>D:</b> Coding D   <b>E:</b> Coding E				

		HVSLC633	02	3	A
<b>Product type:</b>	<b>02:</b> Box mounted receptacle				
<b>Position:</b>	<b>3:</b> 3 positions				
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A   <b>B:</b> Coding B   <b>C:</b> Coding C <b>D:</b> Coding D   <b>E:</b> Coding E				

HVSL 633 | Temperature Rise



HVSL 633 | Derating Curve



Remark: tests carried out on the complete connector.

# EXCEL | MATE Eco (HVSL 635B)

EXCEL | MATE Eco (HVSL635B)



## HVSL635B

**HVSL635B** is a 5 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 40A and 2.5 to 6mm<sup>2</sup> crimping cable.

Specially designed for DC-DC, air-conditioner, and other equipment in HEV device applications.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 40A @ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

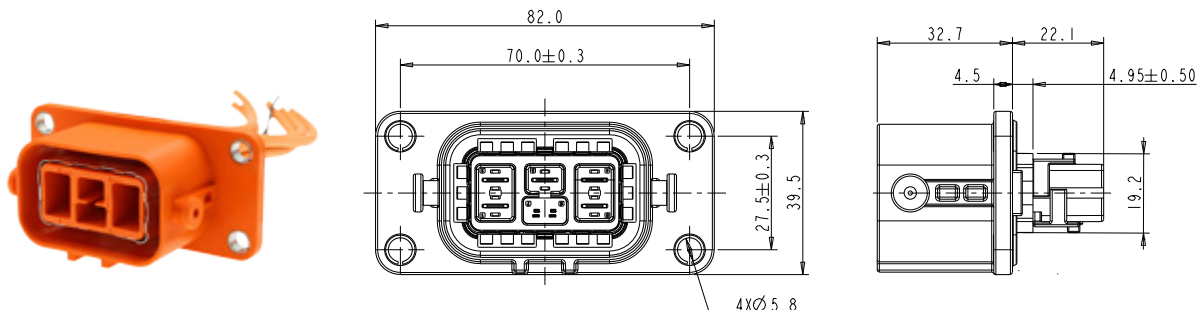
Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

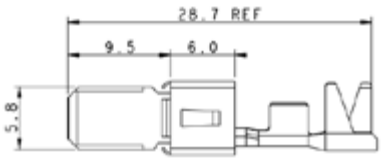
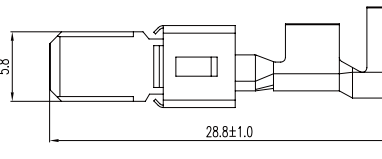
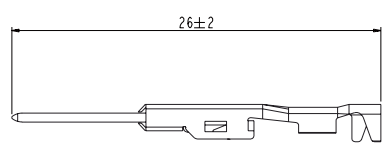
CPA available

MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	2.5 to 6mm <sup>2</sup> shielded wire
Insertion and extraction force	< 75N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available
ELECTRICAL	
Rated voltage	690V DC
Rated current	40A Max @ ambient temperature 70°C
Insulator resistance	≥ 200MΩ Min. @25°C
Dielectric withstand voltage	2380V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS & REACH	
MATERIAL	
Housing	PA66 + GF

RECEPTACLE



CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)		
Pin contact: crimping	Pin contact: crimping	Socket signal contact (HVIL)
P/N: C310023505	P/N: C310003622S	P/N: C310003613S
		
2.5mm <sup>2</sup> shielded wire	4 to 6mm <sup>2</sup> shielded wire	0.5 to 0.75mm <sup>2</sup> unshielded wire

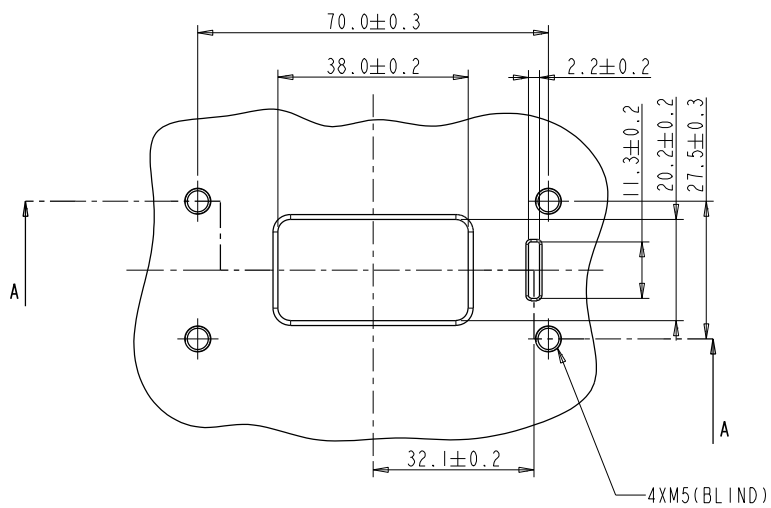
When customers purchase the complete connector, **two TPAs are already included as part of the package**. There is no need for them to make a separate purchase.

However, if customers only purchase specific parts of the connector, they are advised to refer to the customer drawings to obtain the respective part numbers for the different materials required.

PROTECTION CAP

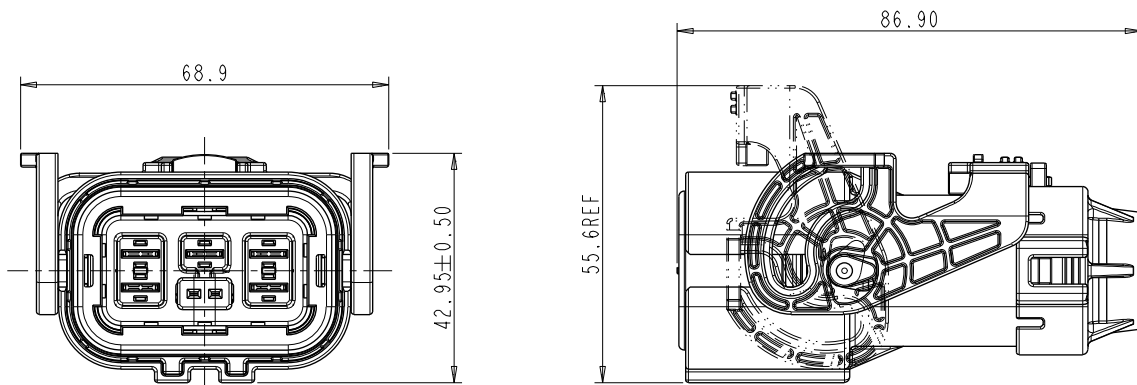


PANEL MOUNTING DIMENSION



MOUNTING INTERFACE SPECIFICATION  
RECOMMENDED THICKNESS: 3.0mm Min

PLUG



CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

Socket contact: crimping	Socket contact: crimping	HVIL contacts
P/N: C310023506	P/N: C310003623S	Integrated, no need to buy.
2.5mm <sup>2</sup> shielded wire	4 to 6mm <sup>2</sup> shielded wire	

# HOW TO ORDER (HVSL 635B)

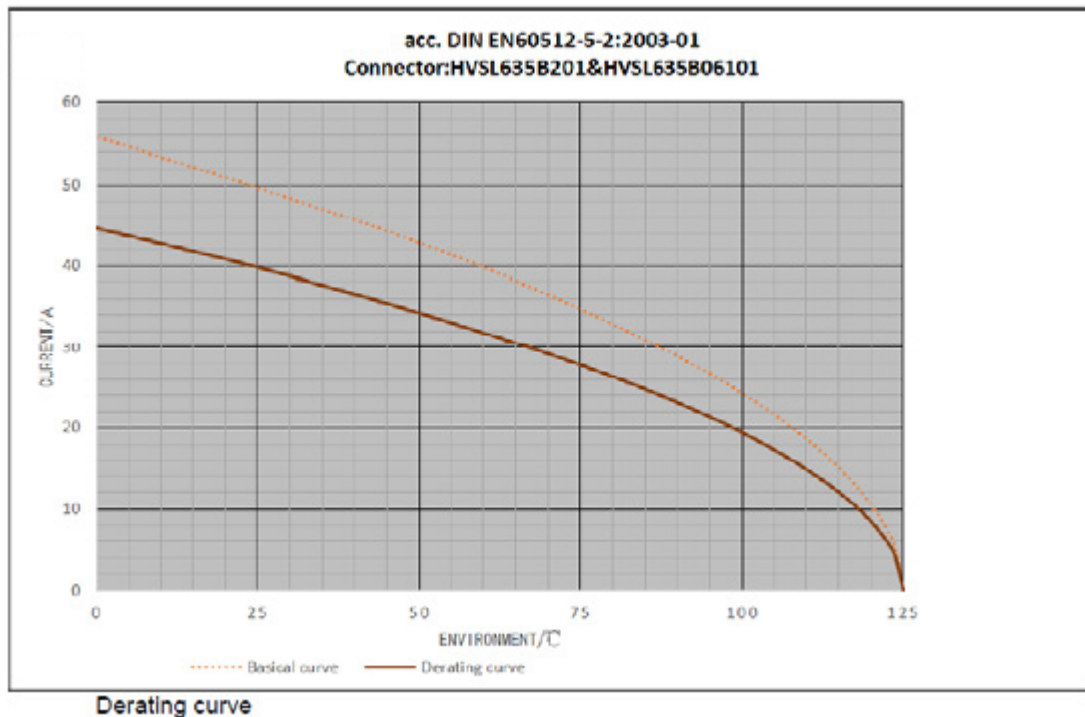
## HOW TO ORDER: PLUG

	HVSL635B	06	1	01
<b>Product type:</b>	<b>06: Straight plug</b>			
<b>HVIL:</b>	<b>0: Without HVIL 1: With HVIL</b>			
<b>Cable OD:</b>	<b>01: 16.3+0/-0.6mm 02: 14.7±0.3mm</b>			

## HOW TO ORDER: RECEPTACLE

	HVSL635B	02	01
<b>Product type:</b>	<b>02: Box mounted receptacle</b>		
<b>Cable OD:</b>	<b>01: 16.3+0/-0.6mm</b>		

## HVSL 635B | Derating Curve



Remark: tests carried out on the complete connector.

## Excel|Mate Eco (HVSL280)



### HVSL280

**HVSL280** is a 3 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity from 16 to 32A and 2.5 to 4mm<sup>2</sup> crimping cable.

Specially designed for DC-DC, air-conditioner, and other equipment in HEV device applications.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 32A@ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

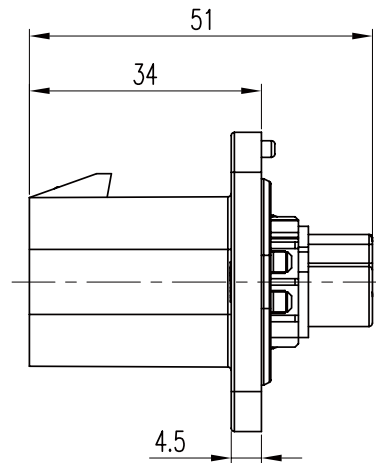
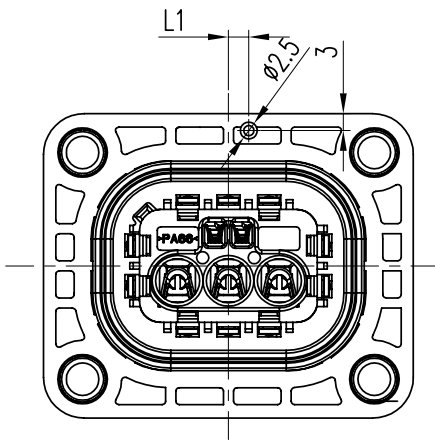
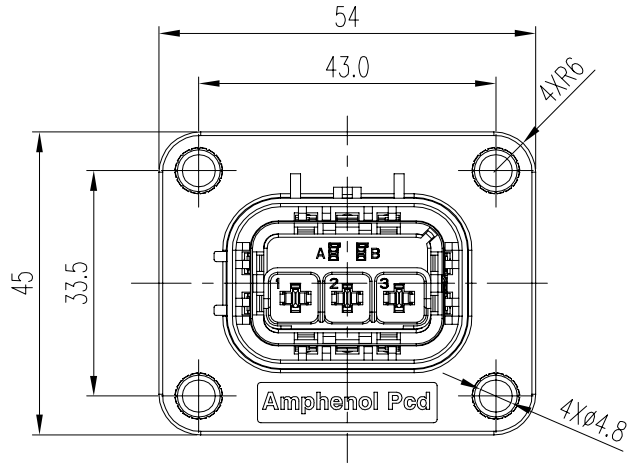
Touch-proof, IP2XB

Multiple coding positions

CPA available

MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	2.5 to 4 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available
ELECTRICAL	
Rated voltage	1000V DC
Rated current	32A Max @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Terminals	Copper/copper alloy
Housing	PA66 + GF

RECEPTACLE



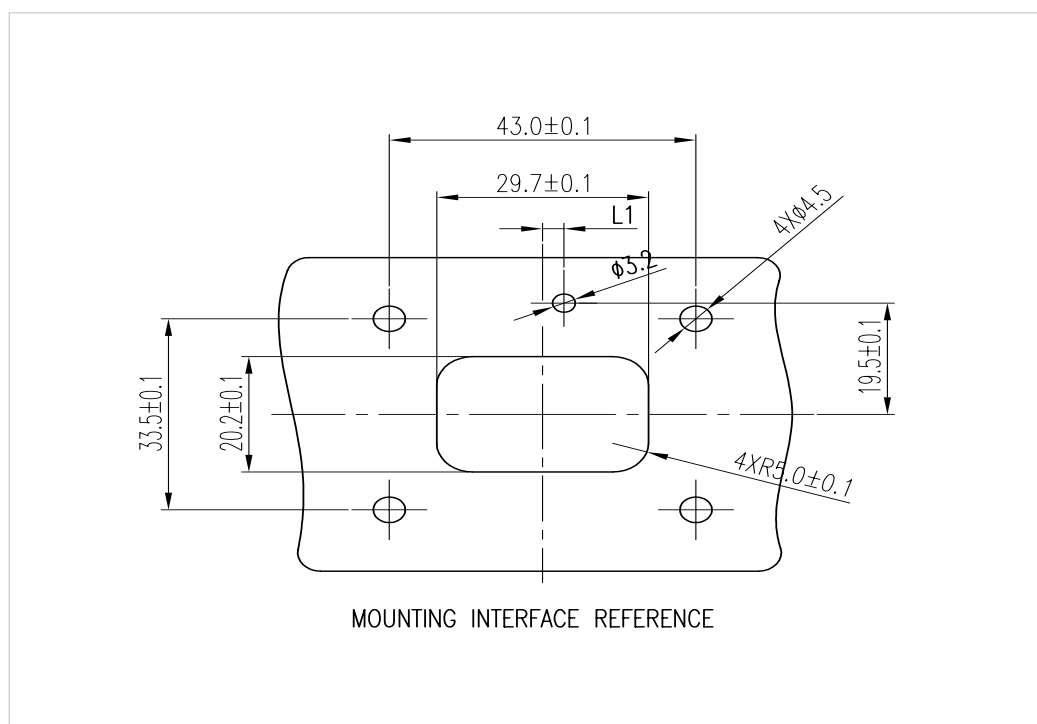
CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

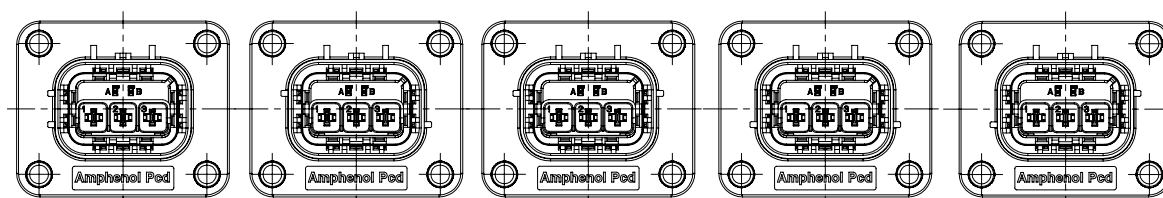
Pin contact: crimping P/N: C310003611S	Pin signal contact (HVIL) P/N: C310003613S
2.5 to 4mm <sup>2</sup> unshielded wire	0.5 to 0.75mm <sup>2</sup> unshielded wire

PANEL MOUNTING DIMENSION

CODING	A	B	C	D	E
L1 (Panel mount)	0	-3	-6	3	6



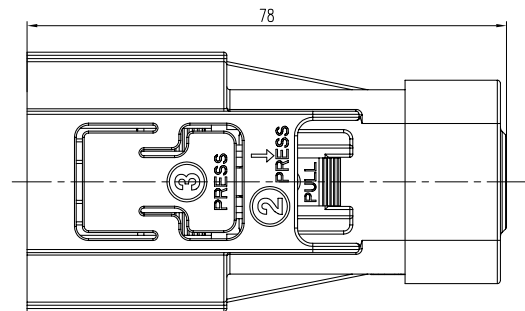
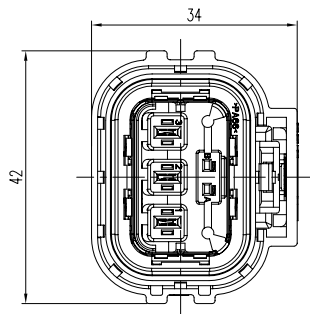
INSERT ORIENTATIONS



	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL280 02 3 A	HVSL280 02 3 B	HVSL280 02 3 C	HVSL280 02 3 D	HVSL280 02 3 E

# Excel|Mate Eco (HVSL 280)

## PLUG

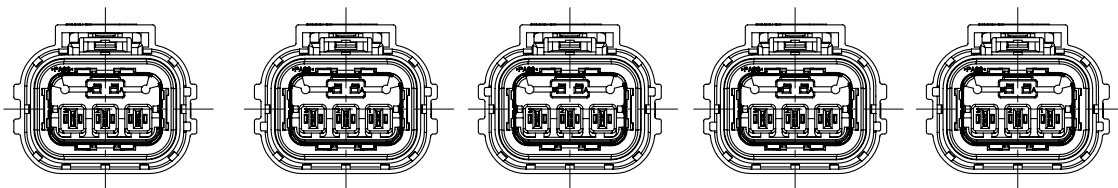


## CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

Socket contact	Socket signal contact (HVIL)
P/N: C310003612S	P/N: C310003614S
2.5 to 4mm <sup>2</sup> shielded wire	0.5 to 0.75mm <sup>2</sup> unshielded wire

## INSERT ORIENTATIONS



	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL280 06 3 A	HVSL280 06 3 B	HVSL280 06 3 C	HVSL280 06 3 D	HVSL280 06 3 E

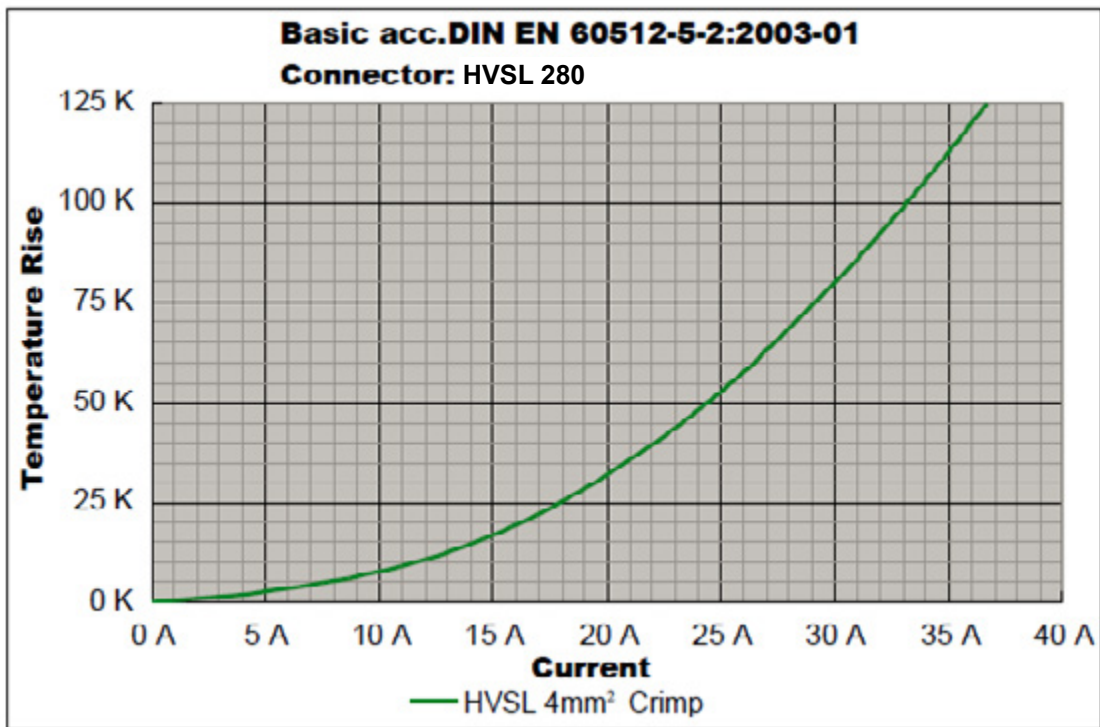
## HOW TO ORDER: PLUG

	HVSL280	06	3	A	10
<b>Product type:</b>	<b>06: Straight plug</b>				
<b>Position:</b>	<b>3: 3 positions</b>				
<b>Coding / Alternate position:</b>	<b>A: Coding A</b> <b>B: Coding B</b> <b>C: Coding C</b> <b>D: Coding D</b> <b>E: Coding E</b>				
<b>Cable OD:</b>	<b>10: Wire OD 9.8 to 10.5 mm</b> <b>11: Wire OD 10.6 to 11.5 mm</b> <b>12: Wire OD 11.6 to 12.5 mm</b> <b>13: Wire OD 12.6 to 13.0 mm</b>				

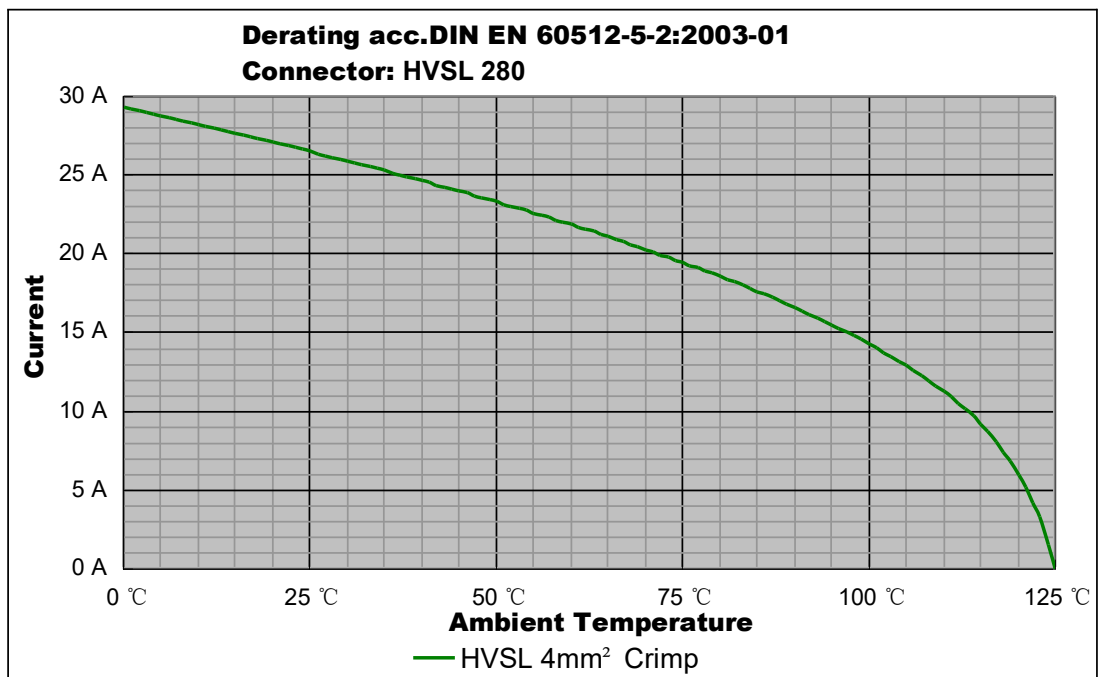
## HOW TO ORDER: RECEPTACLE

	HVSL280	02	3	A
<b>Product type:</b>	<b>02: Box mounted receptacle</b>			
<b>Position:</b>	<b>3: 3 positions</b>			
<b>Coding / Alternate position:</b>	<b>A: Coding A</b> <b>B: Coding B</b> <b>C: Coding C</b> <b>D: Coding D</b> <b>E: Coding E</b>			

## HVSL 280 | Temperature Rise



## HVSL 280 | Derating Curve



Remark: tests carried out on the complete connector.

## Excel|Mate Eco (HVSL282)



### HVSL282

**HVSL282** is a 2 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity from 16 to 32A and 2.5 to 4mm<sup>2</sup> crimping cable.

Specially designed for DC-DC, air-conditioner, and other equipment in HEV device applications.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 32A @ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

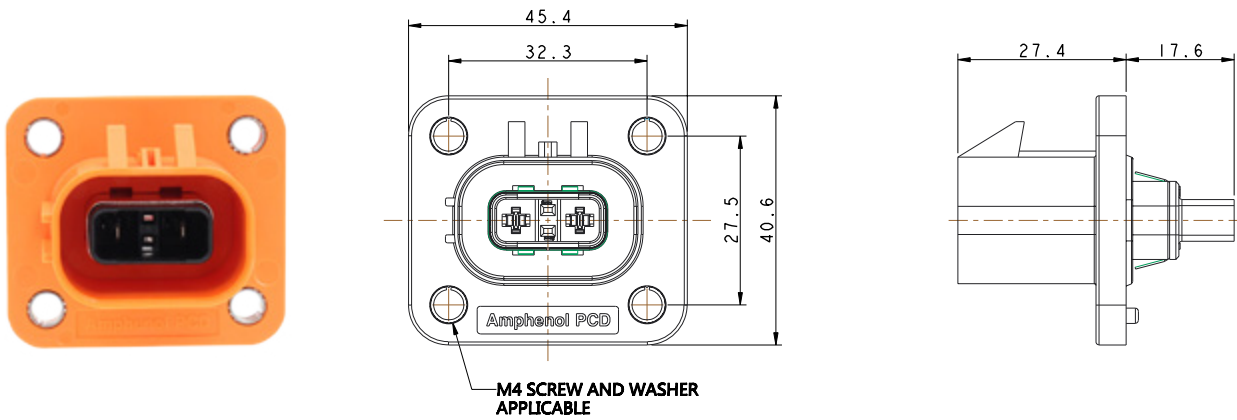
Touch-proof, IP2XB

Multiple coding positions

CPA available

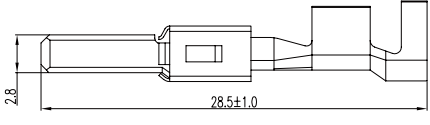
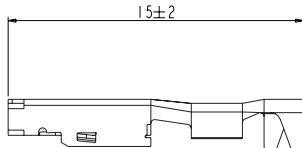
MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	2.5 to 4 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available
ELECTRICAL	
Rated voltage	1000V DC
Rated current	32A Max @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Terminals	Copper/copper alloy
Housing	PA66 + GF

## RECEPTACLE

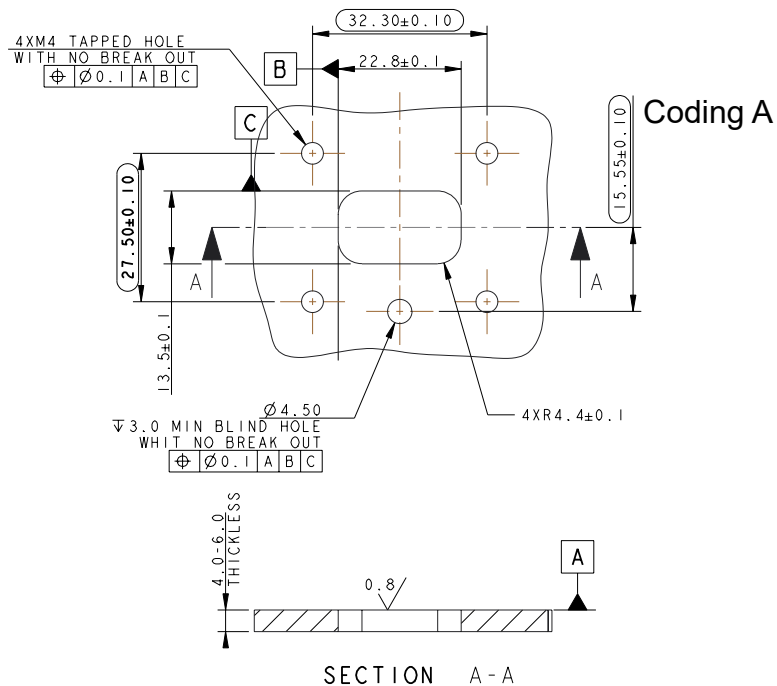


## CONTACTS

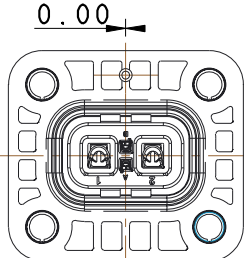
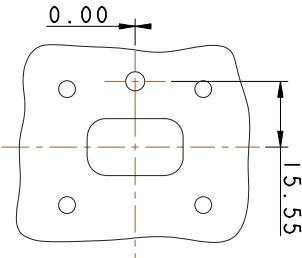
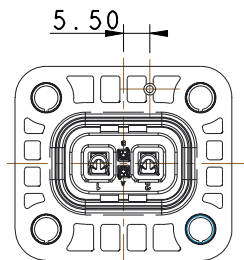
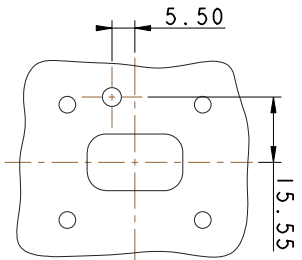
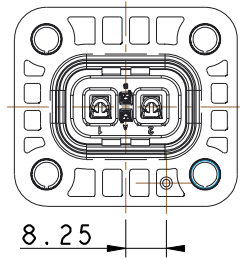
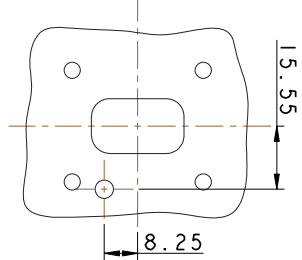
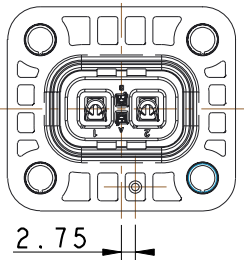
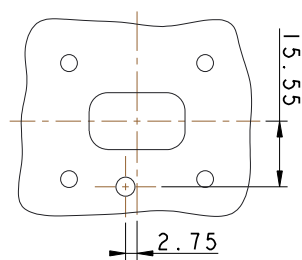
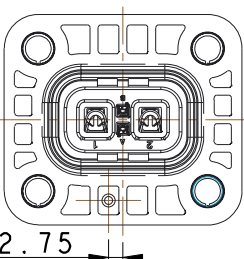
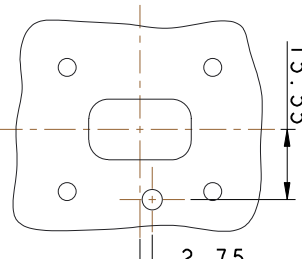
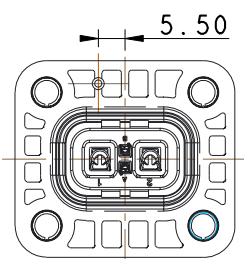
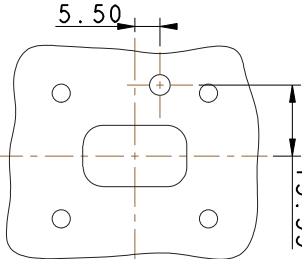
All connectors do not include contacts. Please order them separately (ref: P/N below)

Pin contact: crimping	Socket signal contact (HVIL)
P/N: C310003611S	P/N: C310003614S
	
2.5 to 4mm <sup>2</sup> unshielded wire	0.5 to 0.75mm <sup>2</sup> unshielded wire

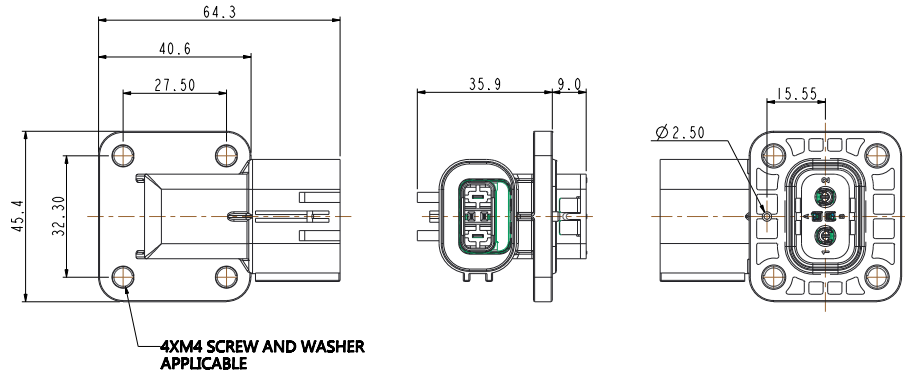
## PANEL MOUNTING DIMENSION



PANEL MOUNTING DIMENSION

Part number	INSERT ORIENTATIONS	PANEL MOUNTING DIMENSION
HVSL282 02 2 A	 <p>0.00</p>	 <p>0.00</p> <p>15.55</p>
HVSL282 02 2 B	 <p>5.50</p>	 <p>5.50</p> <p>15.55</p>
HVSL282 02 2 C	 <p>8.25</p>	 <p>15.55</p> <p>8.25</p>
HVSL282 02 2 D	 <p>2.75</p>	 <p>15.55</p> <p>2.75</p>
HVSL282 02 2 E	 <p>2.75</p>	 <p>15.55</p> <p>2.75</p>
HVSL282 02 2 F	 <p>5.50</p>	 <p>5.50</p> <p>15.55</p>

## RIGHT-ANGLE RECEPTACLE

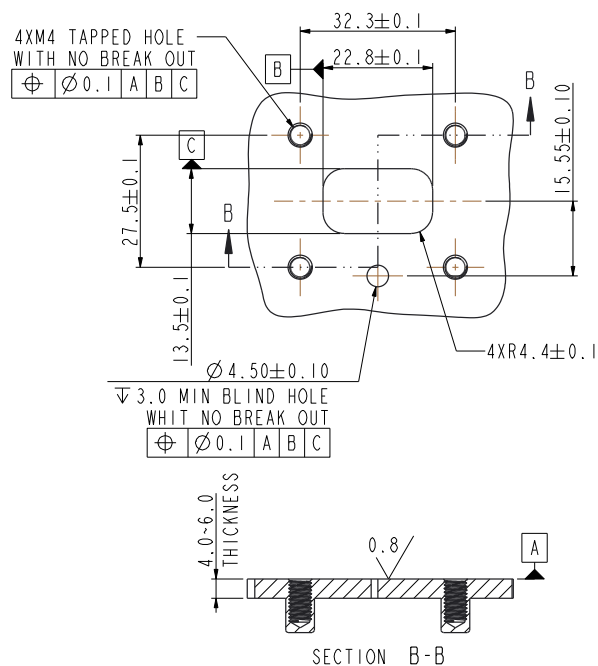


## CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

Socket contact: crimping	Socket signal contact (HVIL)
P/N: C310003612S	P/N: C310003614S
2.5 to 4mm <sup>2</sup> unshielded wire	0.5 to 0.75mm <sup>2</sup> unshielded wire

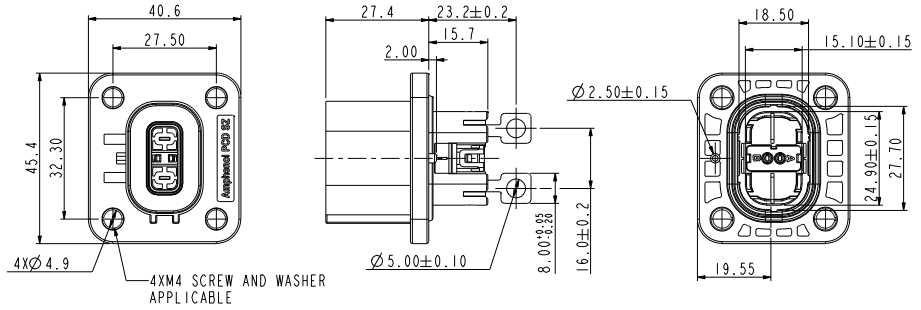
## PANEL MOUNTING DIMENSION



PANEL MOUNTING DIMENSION

Part number	INSERT ORIENTATIONS	PANEL MOUNTING DIMENSION
HVSL282 04 2 AX		
HVSL282 04 2 BX		
HVSL282 04 2 CX		
HVSL282 04 2 DX		
HVSL282 04 2 EX		
HVSL282 04 2 FX		

RECEPTACLE WITH SOLDERED PIN FOR PCB BOARD

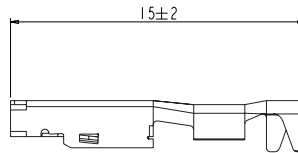


CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

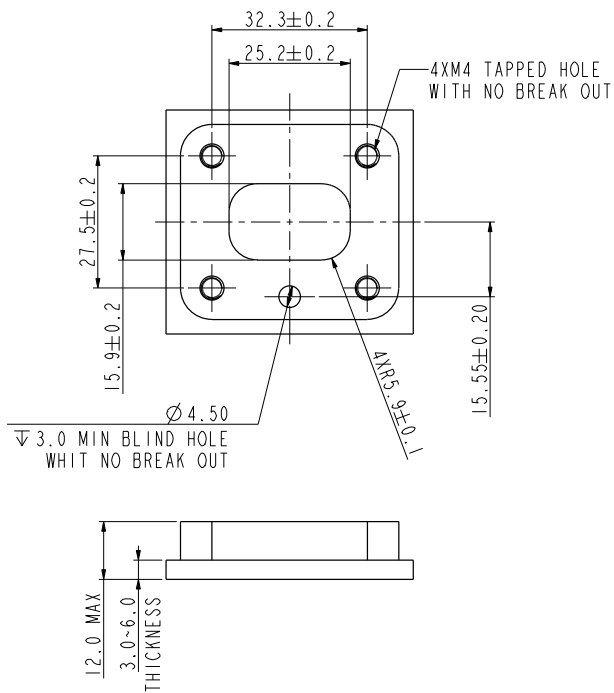
Socket signal contact (HVIL)

P/N: C310003614S



0.5 to 0.75mm<sup>2</sup> unshielded wire

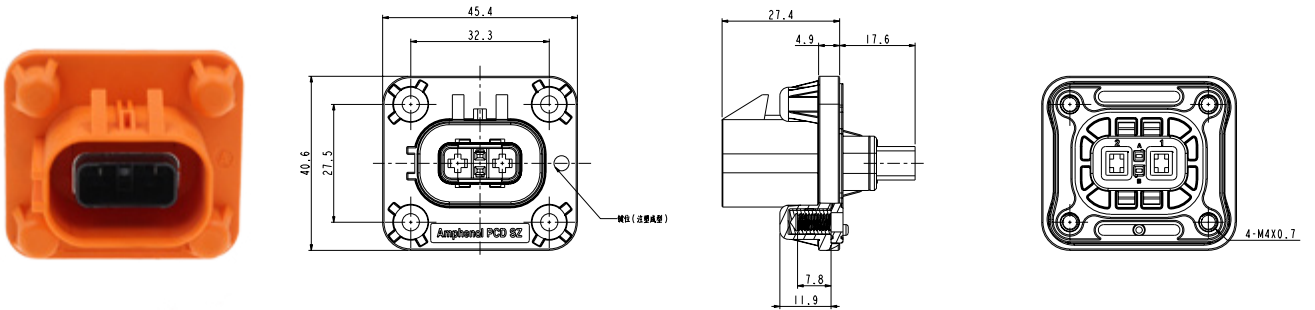
PANEL MOUNTING DIMENSION



PANEL MOUNTING DIMENSION

Part number	INSERT ORIENTATIONS	PANEL MOUNTING DIMENSION
HVSLW282 02 2 AX		
HVSLW282 02 2 BX		
HVSLW282 02 2 DX		
HVSLW282 02 2 FX		

BLIND HOLE MOUNTED RECEPTACLE

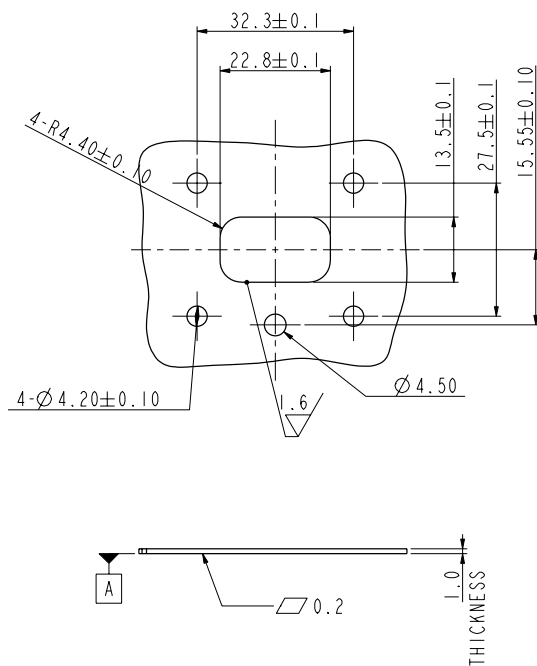


CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

Pin contact: crimping	Socket signal contact (HVIL)
P/N: C310003611S	P/N: C310003614S
2.5 to 4mm <sup>2</sup> unshielded wire	0.5 to 0.75mm <sup>2</sup> unshielded wire

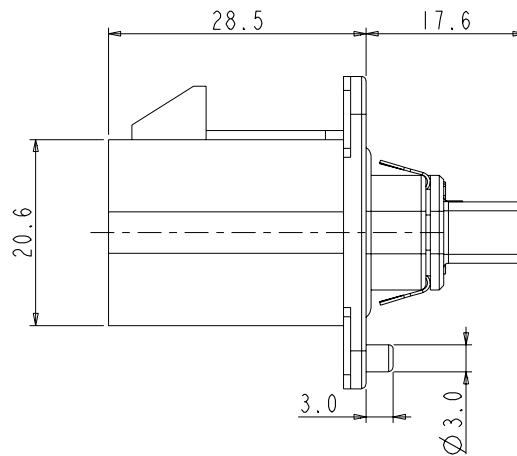
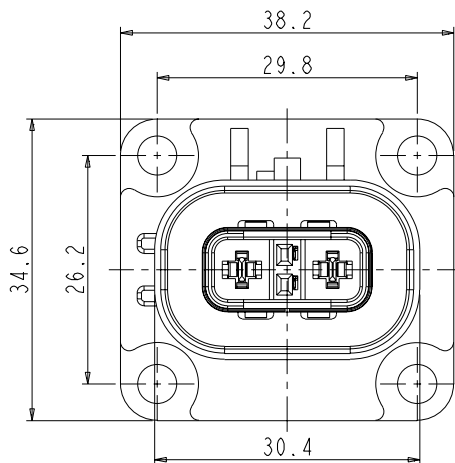
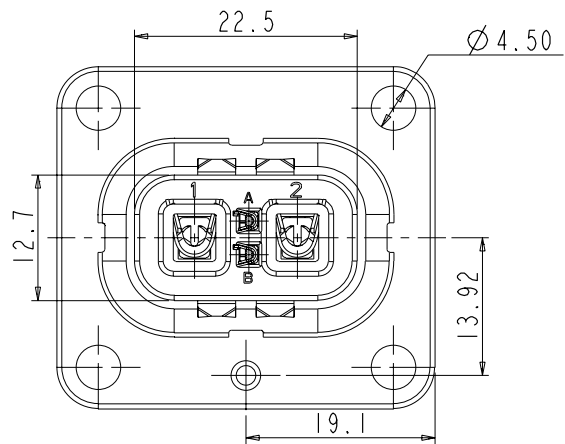
PANEL MOUNTING DIMENSION



PANEL MOUNTING DIMENSION

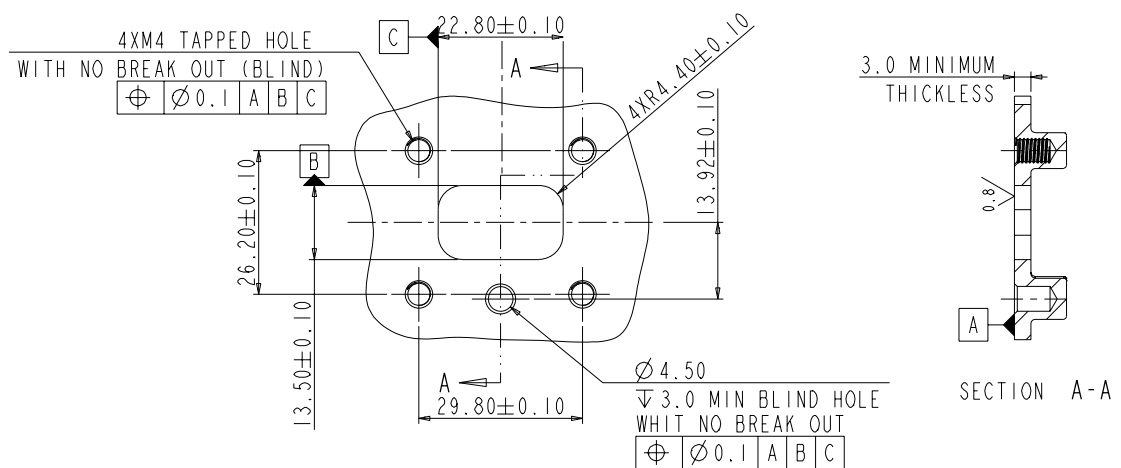
Part number	INSERT ORIENTATIONS			PANEL MOUNTING DIMENSION
HVSL282 032 A				
HVSL282 032 B				
HVSL282 032 C				
HVSL282 032 D				
HVSL282 032 E				
HVSL282 032 F				

RECEPTACLE: METAL SHELL

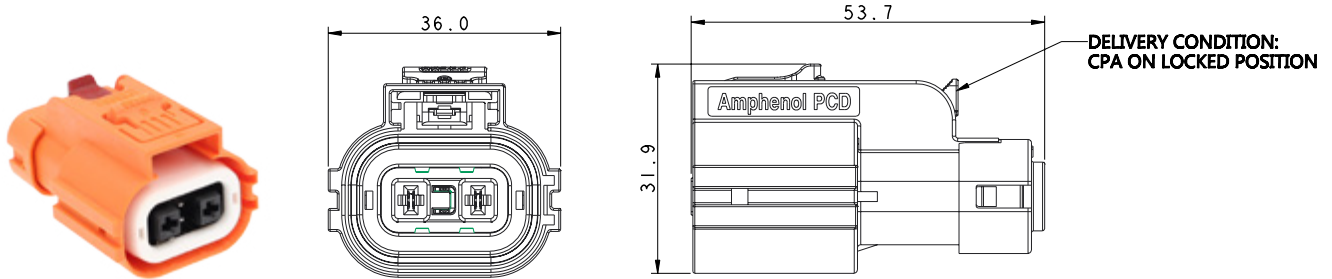


PANEL MOUNTING DIMENSION

PANEL CUT-OUT REFERENCE



PLUG

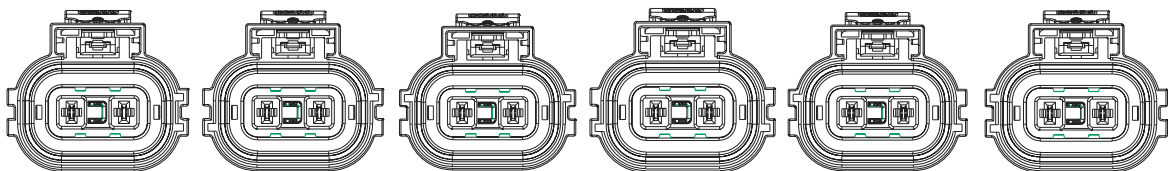


CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

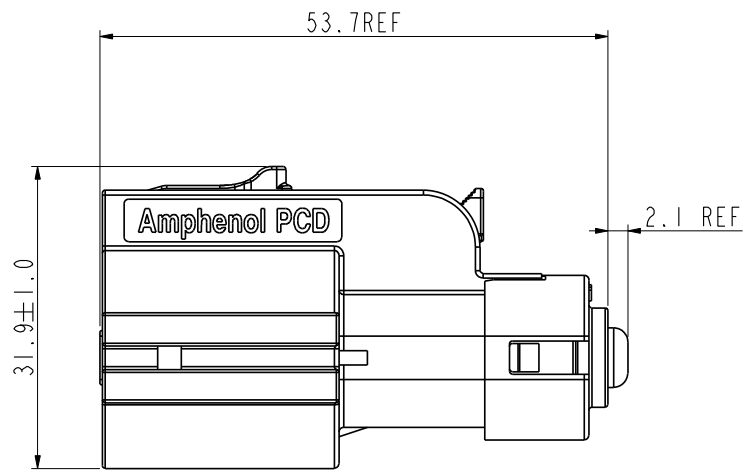
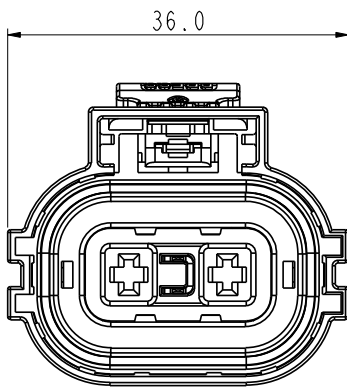
Socket contact: crimping	HVIL contacts
P/N: C310003612S	Integrated, no need to buy.
2.5 to 4mm <sup>2</sup> shielded wire	

INSERT ORIENTATIONS



	Coding A	Coding B	Coding C	Coding D	Coding E	Coding F
P/N	HVSL282 06 2 A	HVSL282 06 2 B	HVSL282 06 2 C	HVSL282 06 2 D	HVSL282 06 2 E	HVSL282 06 2 F

DUMMY PLUG



HVSL282    06    2    N    0

**Product type:**

06: Straight plug

**Position:**

2: 2 position

**Coding / Alternate position:**

N: No coding key

**Interlock:**

0: Without interlock    |    1: With interlock

## HOW TO ORDER: PLUG

	HVSL282	06	2	A	0	03	I/M
<b>Product type:</b>	<b>06:</b> Straight plug						
<b>Position:</b>	<b>2:</b> 2 positions						
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A	<b>D:</b> Coding D					
	<b>B:</b> Coding B	<b>E:</b> Coding E					
	<b>C:</b> Coding C	<b>F:</b> Coding F					
<b>HVIL:</b>	<b>0:</b> Without HVIL						
	<b>1:</b> With HVIL						
<b>Cable size:</b>	<b>03:</b> 2.5mm <sup>2</sup>						
	<b>04:</b> 4mm <sup>2</sup>						
<b>Wire type:</b>	<b>I:</b> Individually shielded wire						

# HOW TO ORDER (HVSL 282)

## HOW TO ORDER: RECEPTACLES

	HVSL282	02	2	A
<b>Product type:</b>	<b>02:</b> Box mounted receptacle			
<b>Position:</b>	<b>2:</b> 2 positions			
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C	<b>D:</b> Coding D <b>E:</b> Coding E <b>F:</b> Coding F		

	HVSL282	03	2	A
<b>Product type:</b>	<b>03:</b> Blind hole mounted receptacle			
<b>Position:</b>	<b>2:</b> 2 positions			
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C	<b>D:</b> Coding D <b>E:</b> Coding E <b>F:</b> Coding F		

	HVSL282	04	2	A	1
<b>Product type:</b>	<b>04:</b> Right-angle receptacle				
<b>Position:</b>	<b>2:</b> 2 positions				
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C	<b>D:</b> Coding D <b>E:</b> Coding E <b>F:</b> Coding F			
<b>HVIL</b>	<b>0:</b> without HVIL <b>1:</b> with HVIL				

	HVSLW282	02	2	A	1
<b>Product type:</b>	<b>02:</b> With soldered pin for PCB board				
<b>Position:</b>	<b>2:</b> 2 positions				
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>D:</b> Coding D				
<b>HVIL</b>	<b>0:</b> without HVIL <b>1:</b> with HVIL				

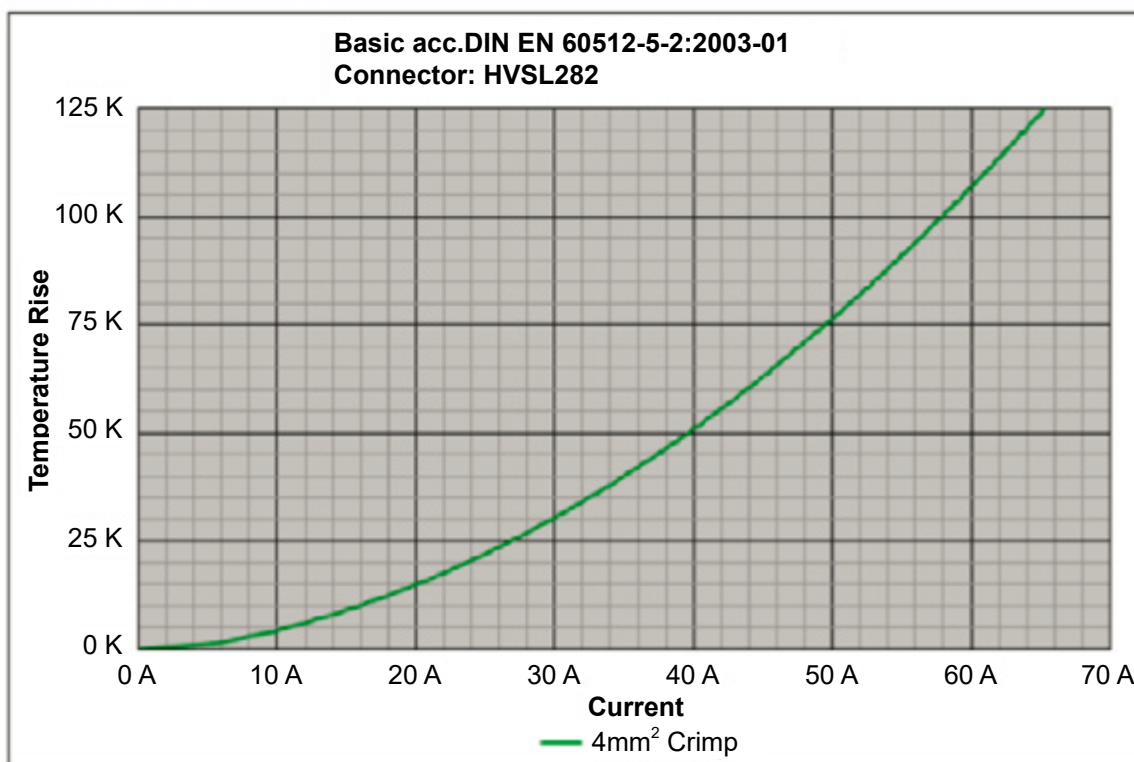
*Remark: W stands for Waterproof.*

## RECEPTACLE: METAL SHELL

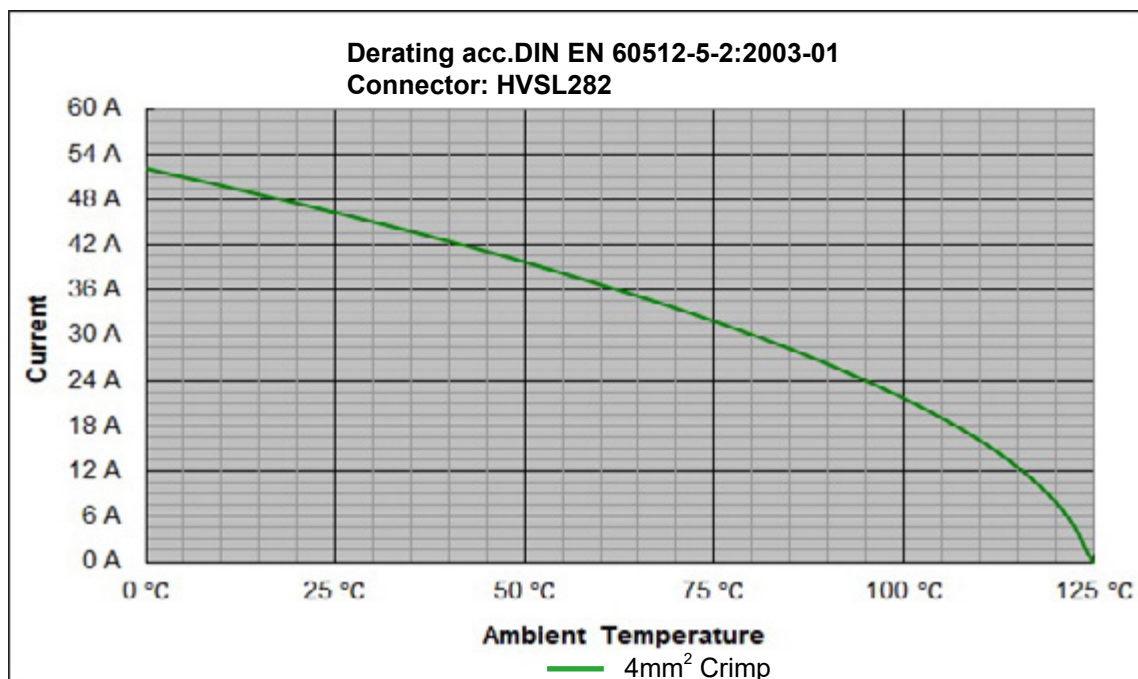
	HVSLM282	02	2	A
<b>Product type:</b>	<b>02:</b> Box mounted receptacle			
<b>Position:</b>	<b>2:</b> 2 positions			
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A			

*Remark: M stands for Metal.*

## HVSL 282 | Temperature Rise



## HVSL 282 | Derating Curve



Remark: tests carried out on the complete connector.

# Excel|Mate Eco (HVSL 362)

## Excel|Mate Eco (HVSL362)



### HVSL362

**HVSL362** is a 2 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 95A and a 6 to 16mm<sup>2</sup> crimping cable.

Specially designed for DC-DC, air-conditioner, and other equipment in HEV device applications.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 95A@ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

Multiple coding positions

CPA available

### MECHANICAL

Durability	≥ 50 mating cycles
Wire range	6 to 16mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available

### ELECTRICAL

Rated voltage	1000V DC
Rated current	95A Max @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device

### ENVIRONMENTAL

Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C

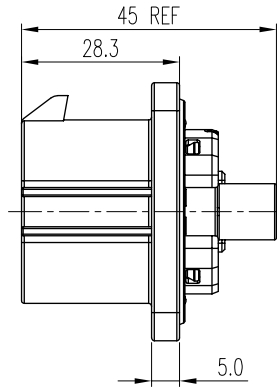
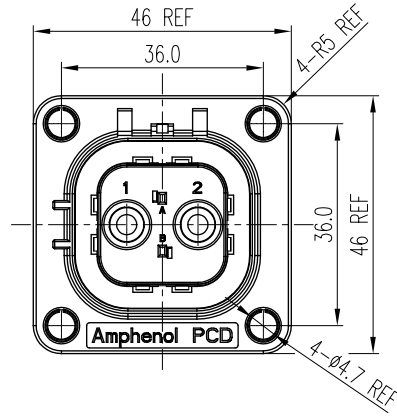
### STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

### MATERIAL

Terminals	Copper/copper alloy with silver plating
Housing	PA66 + GF

RECEPTACLE

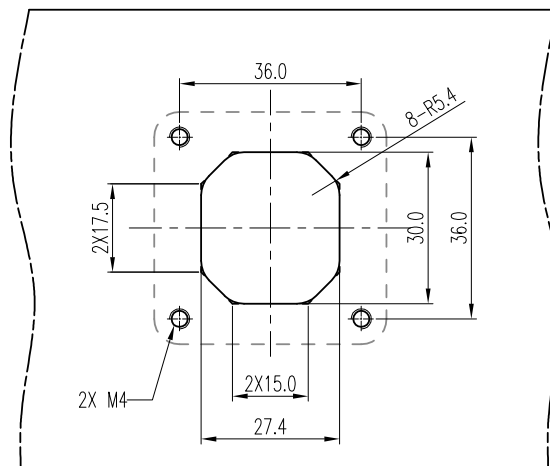


CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

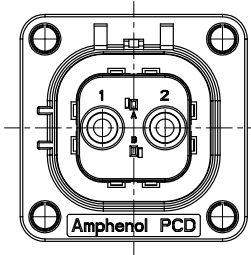
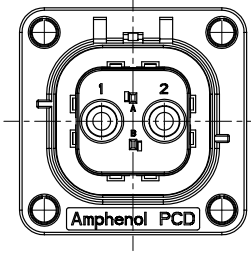
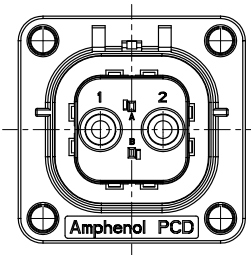
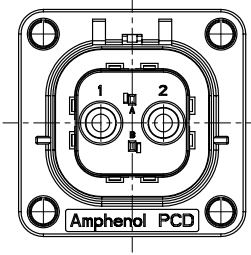
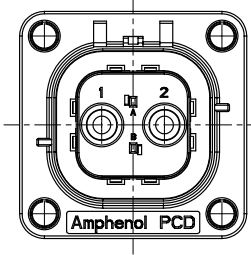
CONTACTS			
HVIL CONTACTS	6 to 10mm <sup>2</sup> (Stamped)	16mm <sup>2</sup> (Stamped)	16mm <sup>2</sup> (Machined)
P/N: C310003614S	P/N: C3100235011	P/N: P03BS00081	P/N: P03BM00197

PANEL MOUNTING DIMENSION

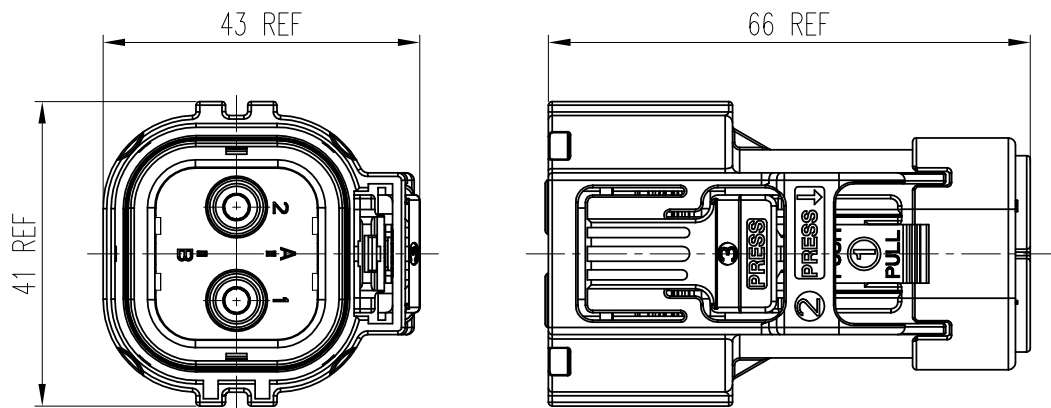


MOUNTING INTERFACE SPECIFICATION  
RECOMMENDED THICKNESS:3.0mm Min

PANEL MOUNTING HOLES POSITIONS

PART NUMBER	INSERT ORIENTATIONS
HVSL362 022 A	
HVSL362 022 B	
HVSL362 022 C	
HVSL362 022 D	
HVSL362 022 E	

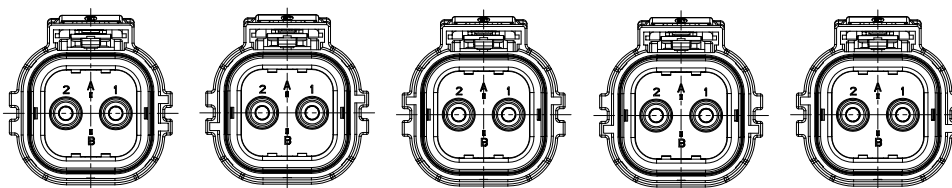
PLUG



CONTACTS

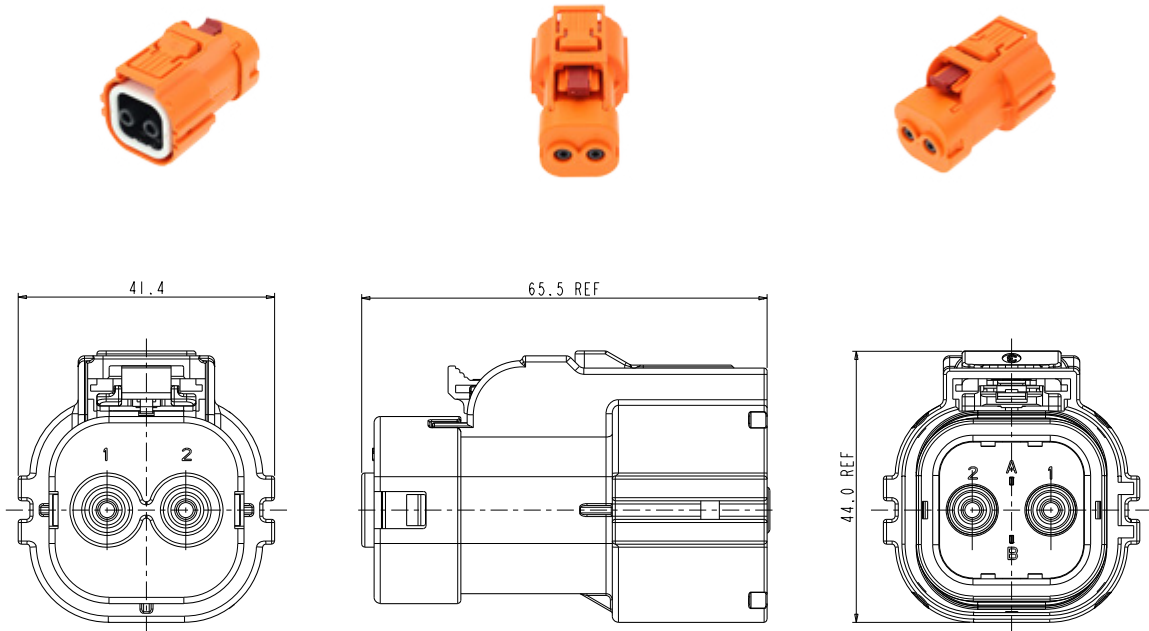
All connectors do not include contacts. Please order them separately (ref: P/N below)			
CONTACTS			
HVIL CONTACTS	6 to 10mm <sup>2</sup> (Stamped)	16mm <sup>2</sup> (Stamped)	16mm <sup>2</sup> (Machined)
	P/N: C3100235021	P/N: P03BS00080	P/N: P03BM00196
Integrated, no need to buy.			

INSERT ORIENTATIONS



	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL362 062 A	HVSL362 062 B	HVSL362 062 C	HVSL362 062 D	HVSL362 062 E

## DUMMY PLUG



### Straight Plug



	HVSL362	06	2	A	0	S4
<b>Product type:</b>	06: Straight plug					
<b>Position:</b>	2: 2 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B   C: Coding C D: Coding D   E: Coding E					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Dummy plug:</b>	S4					

### Right-Angle Plug



	HVSL362	08	2	A	1	06
<b>Product type:</b>	08: Right-Angle plug					
<b>Position:</b>	2: 2 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B   C: Coding C D: Coding D   E: Coding E					
<b>Interlock:</b>	I: With interlock					
<b>Wire size:</b>	06: 6mm <sup>2</sup> (6.1 to 6.5mm) 07: 6mm <sup>2</sup> (6.5 to 7.0mm)					

## HOW TO ORDER: PLUG

	HVSL362	06	2	A	0	06	I
<b>Product type:</b>	<b>06:</b> Straight plug						
<b>Position:</b>	<b>2:</b> 2 positions						
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C <b>D:</b> Coding D <b>E:</b> Coding E						
<b>Interlock:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock						
<b>Cable size:</b>	<b>06:</b> 6mm <sup>2</sup> <b>10:</b> 10mm <sup>2</sup> <b>16:</b> 16mm <sup>2</sup>						
<b>Wire type:</b>	<b>I:</b> Individually shielded wire						

## HOW TO ORDER: RECEPTACLE

	HVSL362	02	2	A
<b>Product type:</b>	<b>02:</b> Box mounted receptacle			
<b>Position:</b>	<b>2:</b> 2 positions			
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C <b>D:</b> Coding D <b>E:</b> Coding E			

# Excel|Mate Eco (HVSL 362 Multicore)

## Excel|Mate Eco (HVSL362 Multicore Plug)



### HVSL362 Multicore

**HVSL362** multicore is a 2 position plug with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 60A and a 6 to 10mm<sup>2</sup> crimping cable.

Specially designed for DC-DC, air-conditioner, and other equipment in HEV device applications.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 60A@ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

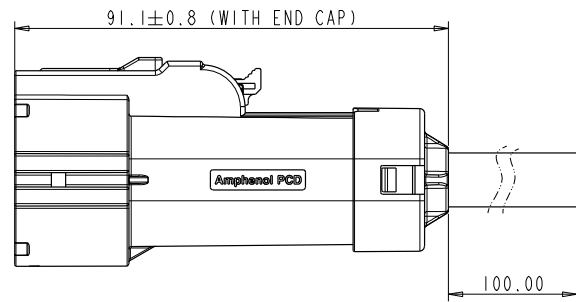
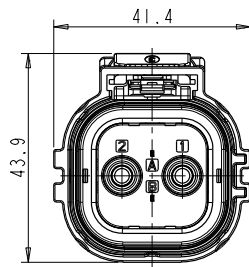
Touch-proof, IP2XB

Multiple coding positions

CPA available

MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	6 to 10mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available
ELECTRICAL	
Rated voltage	1000V DC
Rated current	60A (10mm <sup>2</sup> cable) 40A (6mm <sup>2</sup> cable) @ ambient temperature 70°C
Insulator resistance	> 200MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Terminals	Copper/copper alloy with silver plating
Housing	PA66 + GF

## PLUG



CABLE FIXATION: 100mm MAX

## CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

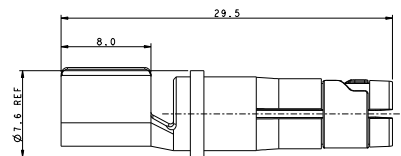
### CONTACTS

#### HVIL CONTACTS

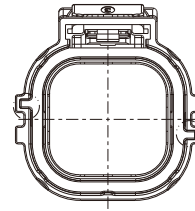
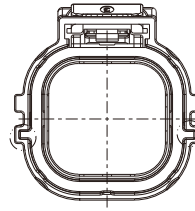
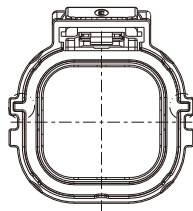
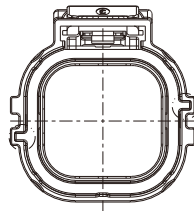
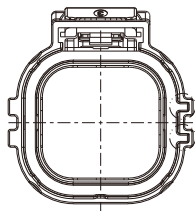
6 to 10mm<sup>2</sup> (Stamped)

P/N: C3100235021

Integrated, no need to buy.



## INSERT ORIENTATIONS



Coding A

Coding B

Coding C

Coding D

Coding E

P/N HVSL362 062 A

P/N HVSL362 062 B

P/N HVSL362 062 C

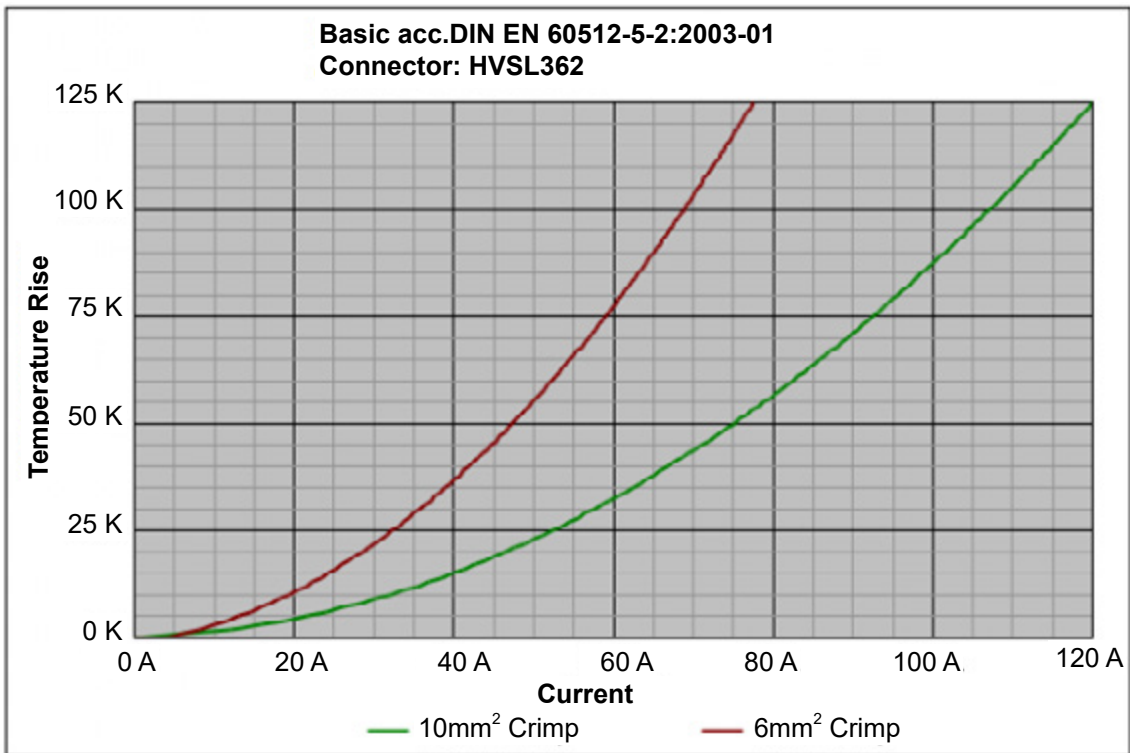
P/N HVSL362 062 D

P/N HVSL362 062 E

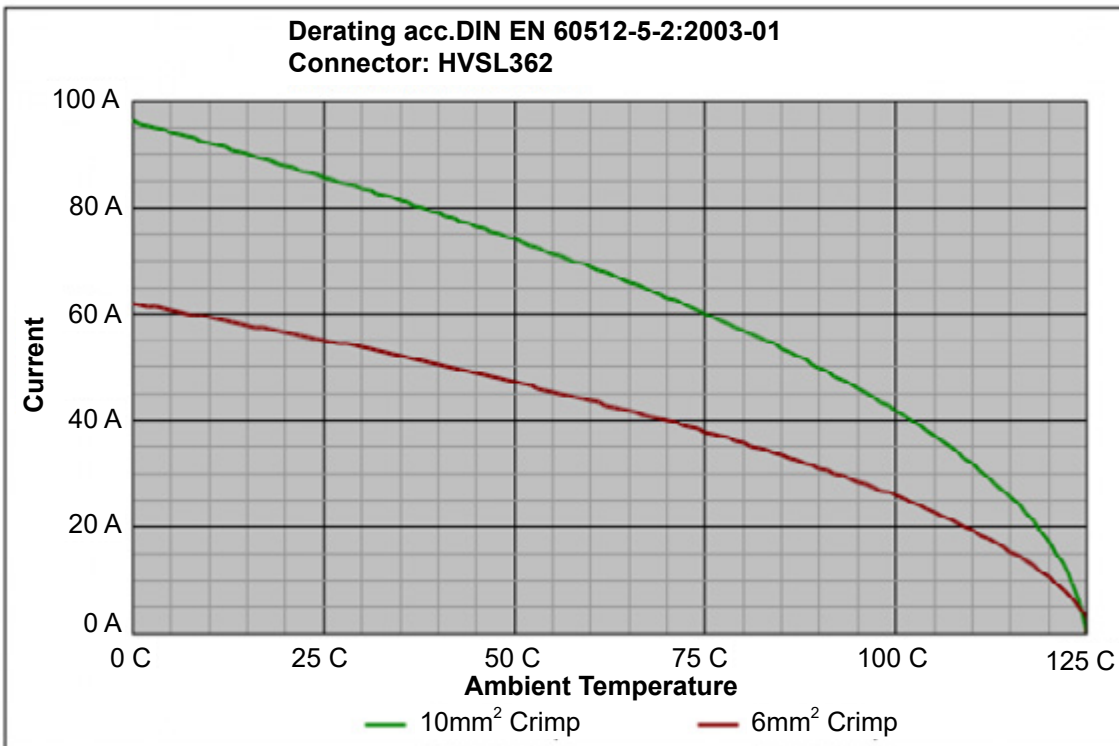
## HOW TO ORDER: MULTICORE PLUG

	HVSL362	06	2	A	1	06	M
<b>Product type:</b>	06: Straight plug						
<b>Position:</b>	2: 2 positions						
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B   C: Coding C D: Coding D   E: Coding E						
<b>Interlock:</b>	0: Without interlock   1: With interlock						
<b>Cable size:</b>	06: 6mm <sup>2</sup>   10: 10mm <sup>2</sup>						
<b>Wire type:</b>	M: Multicore shielded wire						

## HVSL 362 | Temperature Rise



## HVSL 362 | Derating Curve



Remark: tests carried out on the complete connector.

## Excel|Mate Eco (HVSL364) - 3 to 4 pins



### HVSL364

**HVSL364** is a 3 to 4 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 80A and 2.5 to 16mm<sup>2</sup> crimping cable.

Specially designed for DC-DC, air-conditioner, and other equipment in HEV device applications.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 80A@ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

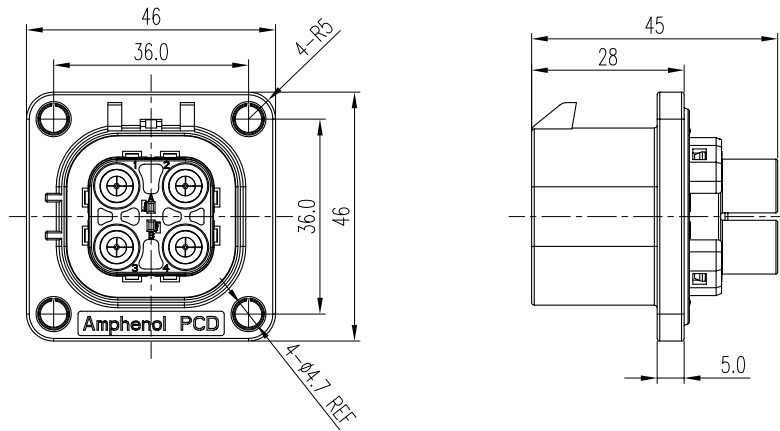
Touch-proof, IP2XB

Multiple coding positions

CPA available

MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	
• Standard .....	2.5 to 16mm <sup>2</sup> shielded wire
• Inline .....	2.5mm <sup>2</sup> to 6AWG shielded wire
Insertion and extraction force	< 100N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available
ELECTRICAL	
Rated voltage	1000V AC&DC
Rated current	80A Max @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Terminals	Copper/copper alloy with silver plating
Housing	PA66 + GF

## RECEPTACLE



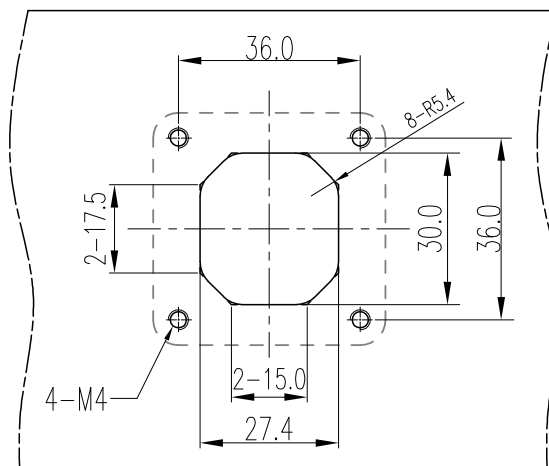
## CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

### CONTACTS (Pin contact)

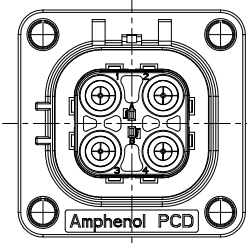
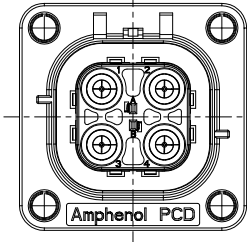
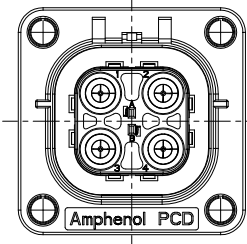
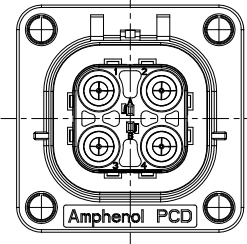
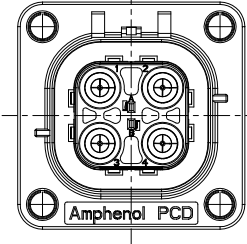
HVIL CONTACTS	6mm <sup>2</sup> (Machined)	6mm <sup>2</sup> (Stamped)	4mm <sup>2</sup>	2.5mm <sup>2</sup>
P/N: C310003614S	P/N: C200012101	P/N: C310026000	P/N: C310026004	P/N: C310026006
6 to 10mm <sup>2</sup> (Stamped)	16mm <sup>2</sup> (Stamped)	Availability in terms of wire range  <b>2.5mm<sup>2</sup> to 16mm<sup>2</sup></b> 3 to 4 PINS available		
P/N: C3100235011	P/N: P03BS00081			

## PANEL MOUNTING DIMENSION

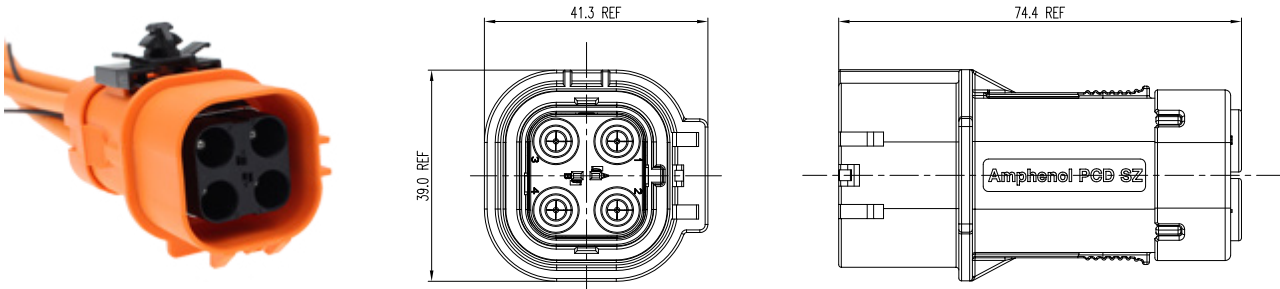


MOUNTING INTERFACE SPECIFICATION  
RECOMMENDED THICKNESS: 3.0mm Min

PANEL MOUNTING HOLES POSITIONS

PART NUMBER	INSERT ORIENTATIONS
<p>HVSL364 024 A (2.5 to 6mm<sup>2</sup>)</p> <p>HVSL364 024 A S11 (10 to 16mm<sup>2</sup>)</p>	
<p>HVSL364 024 B (2.5 to 6mm<sup>2</sup>)</p> <p>HVSL364 024 B S11 (10 to 16mm<sup>2</sup>)</p>	
<p>HVSL364 024 C (2.5 to 6mm<sup>2</sup>)</p> <p>HVSL364 024 C S11 (10 to 16mm<sup>2</sup>)</p>	
<p>HVSL364 024 D (2.5 to 6mm<sup>2</sup>)</p> <p>HVSL364 024 D S11 (10 to 16mm<sup>2</sup>)</p>	
<p>HVSL364 024 E (2.5 to 6mm<sup>2</sup>)</p> <p>HVSL364 024 E S11 (10 to 16mm<sup>2</sup>)</p>	

## RECEPTACLE IN-LINE

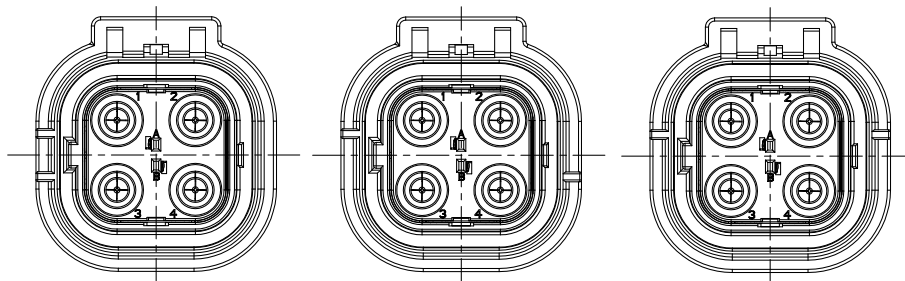


## CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

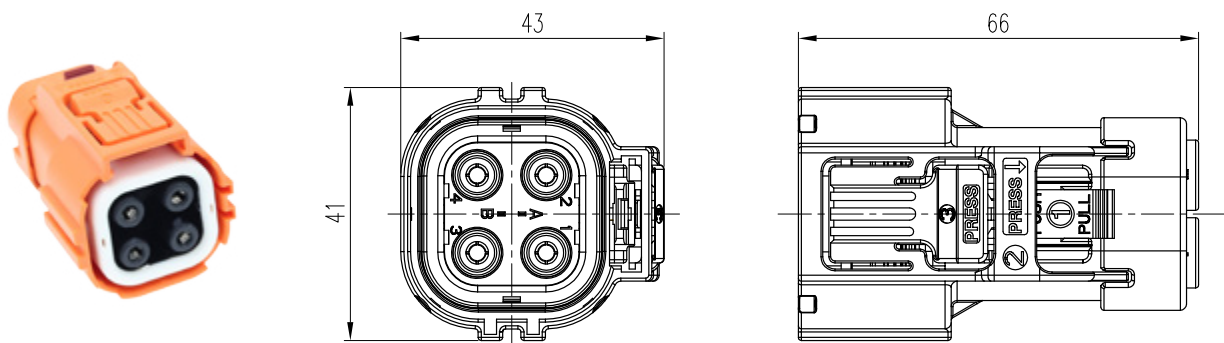
CONTACTS (Pin contact)				
HVIL CONTACTS	6mm <sup>2</sup> (Machined)	6mm <sup>2</sup> (Stamped)	4mm <sup>2</sup>	2.5mm <sup>2</sup>
P/N: C310003614S	P/N: C200012101	P/N: C310026000	P/N: C310026004	P/N: C310026006
6 to 10mm <sup>2</sup> (Stamped)	6AWG (Stamped)	Availability in terms of wire range		
P/N: C3100235011	P/N: P03BS00081	2.5mm <sup>2</sup> to 6mm <sup>2</sup> 4 PINS only		
		10mm <sup>2</sup> to 13.3mm <sup>2</sup> (6AWG) 3 and 4 PINS both available		

## INSERT ORIENTATIONS



	Coding A	Coding B	Coding C
P/N	HVSL364 014 A 103IS1 (2.5mm <sup>2</sup> )	HVSL364 014 B 103IS1 (2.5mm <sup>2</sup> )	HVSL364 014 C 103IS1 (2.5mm <sup>2</sup> )
	HVSL364 014 A XXXI (4 to 6mm <sup>2</sup> )	HVSL364 014 B XXXI (4 to 6mm <sup>2</sup> )	HVSL364 014 C XXXI (4 to 6mm <sup>2</sup> )
	HVSL364 014 A XXXIS11 (10mm <sup>2</sup> , 6AWG)	HVSL364 014 B XXXIS11 (10mm <sup>2</sup> , 6AWG)	HVSL364 014 C XXXIS11 (10mm <sup>2</sup> , 6AWG)

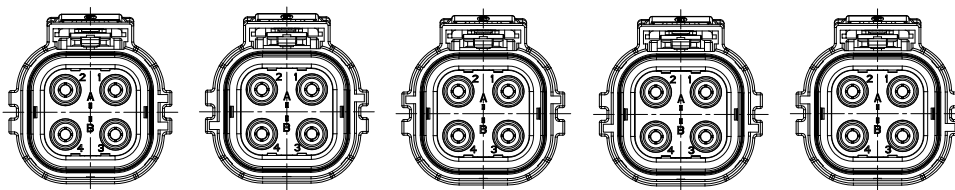
## PLUG



## CONTACTS

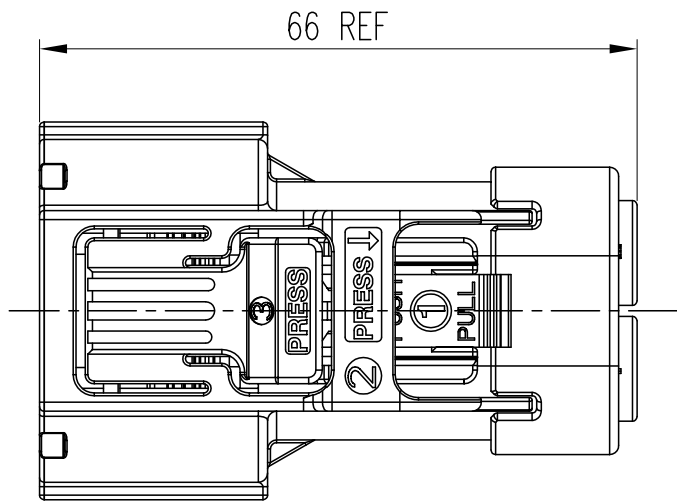
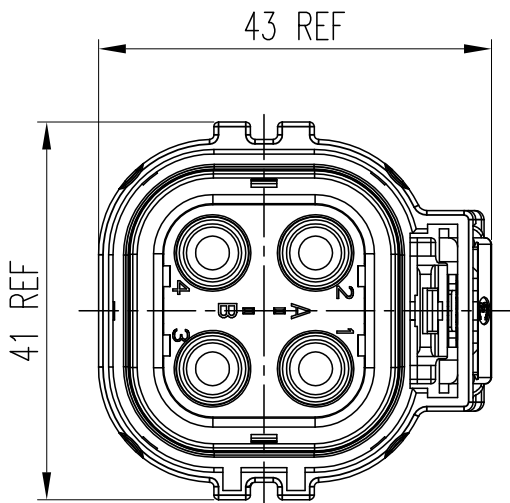
All connectors do not include contacts. Please order them separately (ref: P/N below)				
CONTACTS (Socket contact)				
HVIL CONTACTS	6mm <sup>2</sup> (Machined)	6mm <sup>2</sup> (Stamped)	4mm <sup>2</sup>	2.5mm <sup>2</sup>
Integrated, no need to buy. -	P/N: C200012102	P/N: C310026001	P/N: C310026005	P/N: C310026007
6 to 10mm <sup>2</sup> (Stamped)	16mm <sup>2</sup> (Stamped)	Availability in terms of wire range		
P/N: C3100235021	P/N: P03BS00080	<b>2.5mm<sup>2</sup> to 6mm<sup>2</sup></b> 4 PINS only		
		<b>10mm<sup>2</sup> to 16mm<sup>2</sup></b> 3 and 4 PINS both available		

## INSERT ORIENTATIONS



	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL364 064 A XXXI (2.5 to 6mm <sup>2</sup> )	HVSL364 064 B XXXI (2.5 to 6mm <sup>2</sup> )	HVSL364 064 C XXXI (2.5 to 6mm <sup>2</sup> )	HVSL364 064 D XXXI (2.5 to 6mm <sup>2</sup> )	HVSL364 064 E XXXI (2.5 to 6mm <sup>2</sup> )
	HVSL364 064 A XXXIS11 (10 to 16mm <sup>2</sup> )	HVSL364 064 B XXXIS11 (10 to 16mm <sup>2</sup> )	HVSL364 064 C XXXIS11 (10 to 16mm <sup>2</sup> )	HVSL364 064 D XXXIS11 (10 to 16mm <sup>2</sup> )	HVSL364 064 E XXXIS11 (10 to 16mm <sup>2</sup> )

DUMMY PLUG



HVSL364 06 4 A S5

**Product type:**

06: Straight plug

**Position:**

4: 4 position

**Coding / Alternate position:**

A: Coding A | D: Coding D  
B: Coding B | E: Coding E  
C: Coding C

**Dummy plug:**

S5

## HOW TO ORDER: PLUG with wire range $\leq 6\text{mm}^2$

	HVSL364	06	4	A	0	03	I
<b>Product type:</b>	<b>06:</b> Straight plug						
<b>Position:</b>	<b>4:</b> 4 position						
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C <b>D:</b> Coding D <b>E:</b> Coding E						
<b>Interlock:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock						
<b>Cable size:</b>	<b>03:</b> $2.5\text{mm}^2$ <b>04:</b> $4\text{mm}^2$ <b>06:</b> $6\text{mm}^2$						
<b>Wire type:</b>	<b>I:</b> Individually shielded wire						

## HOW TO ORDER: RECEPTACLE with wire range $\leq 6\text{mm}^2$

	HVSL364	02	4	A			
<b>Product type:</b>	<b>02:</b> Box mounted receptacle						
<b>Position:</b>	<b>4:</b> 4 positions						
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C <b>D:</b> Coding D <b>E:</b> Coding E						
<b>Interlock:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock						
<b>Cable size:</b>	<b>03:</b> $2.5\text{mm}^2$ <b>04:</b> $4\text{mm}^2$ <b>06:</b> $6\text{mm}^2$						
<b>Wire type:</b>	<b>I:</b> Individually shielded wire						

	HVSL364	01	4	A	1	03	I
<b>Product type:</b>	<b>01:</b> In-line						
<b>Position:</b>	<b>4:</b> 4 position						
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C						
<b>Interlock:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock						
<b>Cable size:</b>	<b>03:</b> $2.5\text{mm}^2$ <b>04:</b> $4\text{mm}^2$ <b>06:</b> $6\text{mm}^2$						
<b>Wire type:</b>	<b>I:</b> Individually shielded wire						

# HOW TO ORDER (HVSL 364)

## HOW TO ORDER: PLUG with wire range $\geq 10\text{mm}^2$

	HVSL364	06	3	A	0	10	I	S11
<b>Product type:</b>	<b>06:</b> Straight plug							
<b>Position:</b>	<b>3:</b> 3 position <b>4:</b> 4 position							
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C <b>D:</b> Coding D <b>E:</b> Coding E							
<b>Interlock:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock							
<b>Cable size:</b>	<b>10:</b> $10\text{mm}^2$ <b>13:</b> $13.3\text{mm}^2$ (6AWG) <b>16:</b> $16\text{mm}^2$							
<b>Wire type:</b>	<b>I:</b> Individually shielded wire							
<b>Specialisation:</b>	<b>S11:</b> Specialisation							

## HOW TO ORDER: RECEPTACLE with wire range $\geq 10\text{mm}^2$

	HVSL364	02	4	A	S11
<b>Product type:</b>	<b>02:</b> Box mounted receptacle				
<b>Position:</b>	<b>4:</b> 4 positions				
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C <b>D:</b> Coding D <b>E:</b> Coding E				
<b>Specialisation:</b>	<b>S11:</b> Specialisation				

	HVSL364	01	4	A	1	10	I	S11
<b>Product type:</b>	<b>01:</b> In-line							
<b>Position:</b>	<b>3:</b> 3 position <b>4:</b> 4 position							
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B <b>C:</b> Coding C							
<b>Interlock:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock							
<b>Cable size:</b>	<b>10:</b> $10\text{mm}^2$ <b>13:</b> $13.3\text{mm}^2$ (6AWG)							
<b>Wire type:</b>	<b>I:</b> Individually shielded wire							
<b>Specialization:</b>	<b>S11:</b> Specialisation							

## Excel|Mate Eco (HVSL364) - 4 pins Multicore Plug



### HVSL364 Multicore

**HVSL364** multicore is a 4 position plug with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 40A and 2.5 to 6mm<sup>2</sup> crimping cable.

Specially designed for DC-DC, air-conditioner, and other equipment in HEV device applications.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 40A@ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

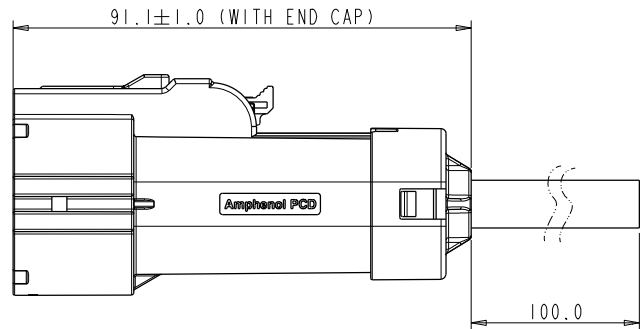
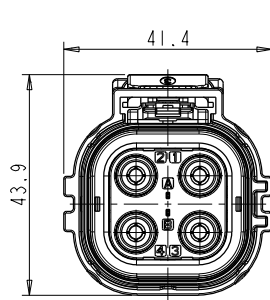
Multiple coding positions

CPA available

MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	2.5 to 6mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available
ELECTRICAL	
Rated voltage	1000V AC&DC
Rated current	40A (6mm <sup>2</sup> cable) 32A (4mm <sup>2</sup> cable) 20A (2.5mm <sup>2</sup> cable) @ ambient temperature 70°C
Insulator resistance	> 200MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Terminals	Copper/copper alloy with silver plating
Housing	PA66 + GF

# Excel|Mate Eco (HVSL 364 Multicore)

## PLUG



CABLE FIXATION: 100mm MAX

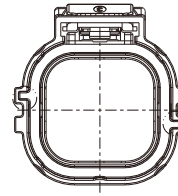
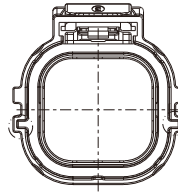
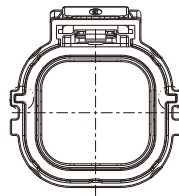
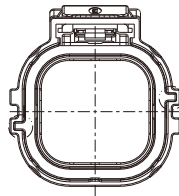
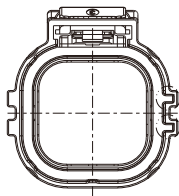
## CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

### CONTACTS

HVIL CONTACTS	6mm <sup>2</sup> (Stamped)	4mm <sup>2</sup> (Stamped)	2.5mm <sup>2</sup> (Stamped)
Integrated, no need to buy.	P/N: C310026001	P/N: C310026005	P/N: C310026007

## INSERT ORIENTATIONS



	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL364 062 A	HVSL364 062 B	HVSL364 062 C	HVSL364 062 D	HVSL364 062 E

## HOW TO ORDER: MULTICORE PLUG

	HVSL364	06	4	A	1	06	M
<b>Product type:</b>	<b>06:</b> Straight plug						
<b>Position:</b>	<b>4:</b> 4 positions						
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A   <b>B:</b> Coding B   <b>C:</b> Coding C <b>D:</b> Coding D   <b>E:</b> Coding E						
<b>Interlock:</b>	<b>0:</b> Without interlock   <b>1:</b> With interlock						
<b>Cable size:</b>	<b>03:</b> 2.5mm <sup>2</sup>   <b>04:</b> 4mm <sup>2</sup>   <b>06:</b> 6mm <sup>2</sup>						
<b>Wire type:</b>	<b>M:</b> Multicore shielded wire						

EXCEL | MATE Eco (HVSL365 5 PIN connector)



**HVSL365**

**HVSL365** is a 5 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 40A and 2.5 to 6mm<sup>2</sup> crimping cable. The two signal contacts offer a rated current up to 5A and 0.5 to 0.75mm<sup>2</sup> crimping cable.

Specially designed for DC-DC, air-conditioner, and other equipment in HEV device applications.

**KEY FEATURES**

Integrated internal HVIL

Current rating up to 40A@ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

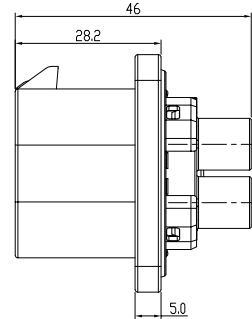
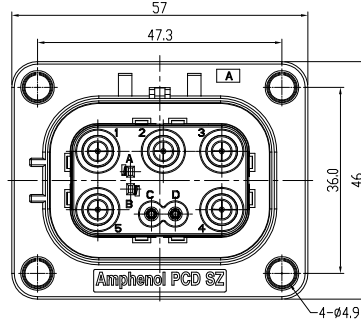
Touch-proof, IP2XB

Multiple coding positions

CPA available

MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	2.5 to 6mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available
ELECTRICAL	
Rated voltage	1000V DC
Rated current	40A Max @ ambient temperature 70°C Signal contacts: 5A
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Terminals	Copper/copper alloy with silver plating
Housing	PA66 + GF

RECEPTACLE



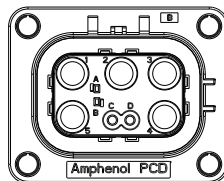
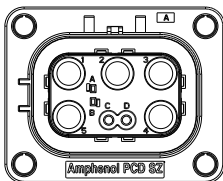
CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

CONTACTS (Pin contact)

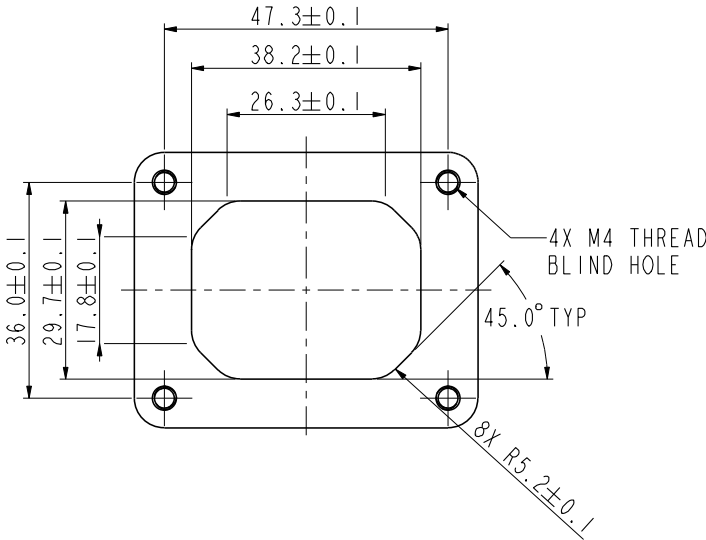
HVIL contacts	2.5mm <sup>2</sup>	4 to 6mm <sup>2</sup>	Signal contacts
P/N: C310003614S	P/N: C310026002	P/N: C310026000	P/N: LVRC20SC01S

INSERT ORIENTATIONS



	Coding A	Coding B
P/N	HVSL365 025 A	HVSL365 025 B

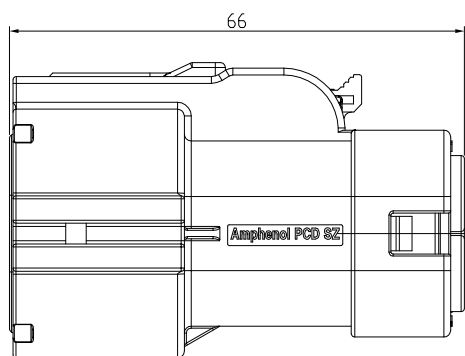
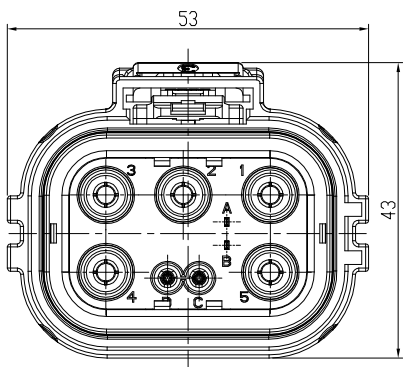
PANEL MOUNTING DIMENSION



PANEL MOUNTING HOLES POSITIONS

PART NUMBER	INSERT ORIENTATIONS
HVSL365 025 A	
HVSL365 025 B	

PLUG

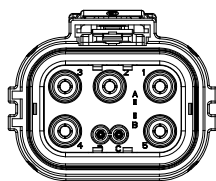
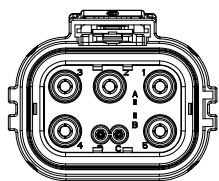


CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

CONTACTS (Socket contact)			
HVIL CONTACTS	2.5mm <sup>2</sup>	4 to 6mm <sup>2</sup>	Signal contacts
Integrated, no need to buy.	P/N: C310026003	P/N: C310026001	P/N: L17D3D475T75

INSERT ORIENTATIONS



	Coding A	Coding B
P/N	HVSL365 065 A XXXI	HVSL365 065 B XXXI

## HOW TO ORDER: PLUG

	HVSL365	06	5	A	0	04	I
<b>Product type:</b>	<b>06:</b> Straight plug						
<b>Position:</b>	<b>5:</b> 5 position						
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B						
<b>Interlock:</b>	<b>0:</b> Without interlock <b>1:</b> With interlock						
<b>Cable size:</b>	<b>03:</b> 2.5mm <sup>2</sup> <b>04:</b> 4mm <sup>2</sup> <b>06:</b> 6mm <sup>2</sup>						
<b>Wire type:</b>	<b>I:</b> Individually shielded wire						

## HOW TO ORDER: RECEPTACLE

	HVSL365	02	5	A
<b>Product type:</b>	<b>02:</b> Box mounted receptacle			
<b>Position:</b>	<b>5:</b> 5 positions			
<b>Coding / Alternate position:</b>	<b>A:</b> Coding A <b>B:</b> Coding B			

# EXCEL | MATE Eco (HVSL 366)

EXCEL | MATE Eco (HVSL366)



## HVSL366

**HVSL366** is a 6 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 40A and 2.5 to 6mm<sup>2</sup> crimping cable.

Specially designed for DC-DC, air-conditioner, and other equipment in HEV device applications.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 40A@ ambient temperature 70°C

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

Multiple coding positions

CPA available

### MECHANICAL

Durability	≥ 50 mating cycles
Wire range	2.5 to 6mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimping
Latching style	Two stage, finger actuated
HVIL	Integrated
CPA	Available

### ELECTRICAL

Rated voltage	1000V DC
Rated current	40A Max @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device

### ENVIRONMENTAL

Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C

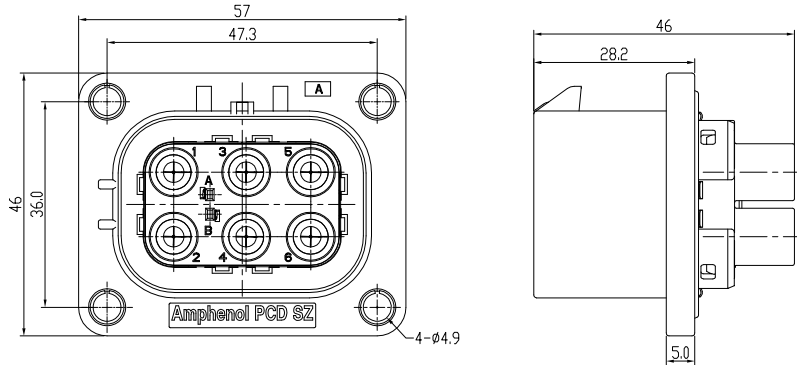
### STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

### MATERIAL

Terminals	Copper/copper alloy with silver plating
Housing	PA66 + GF

RECEPTACLE



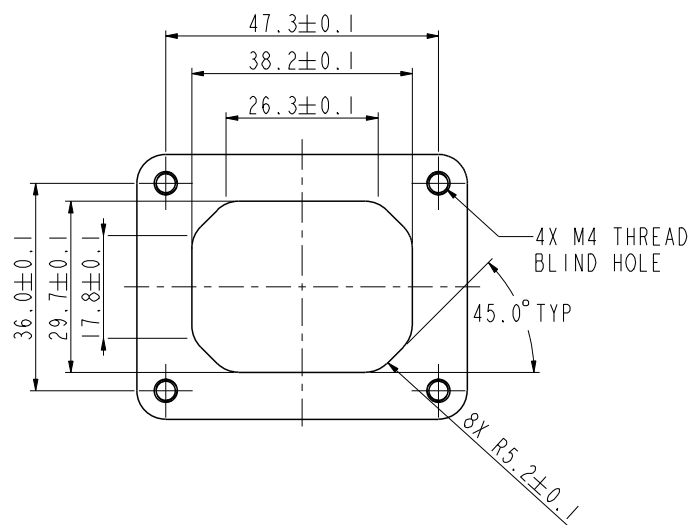
CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

CONTACTS (Pin contact)

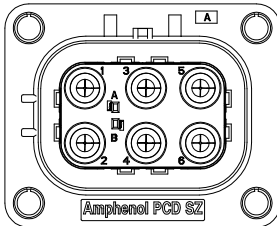
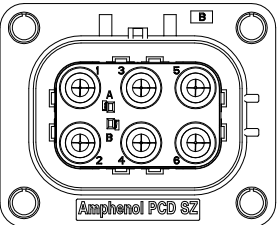
HVIL contacts	2.5mm <sup>2</sup>	4 to 6mm <sup>2</sup>
P/N: C310003614S	P/N: C310026002	P/N: C310026000

PANEL MOUNTING DIMENSION

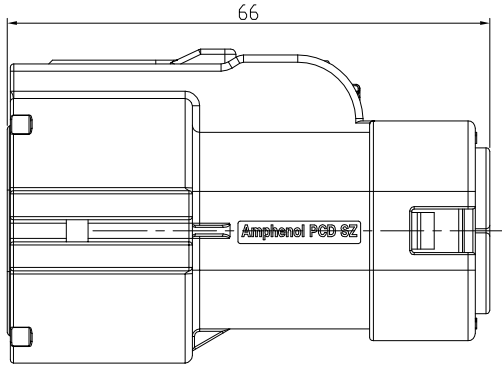
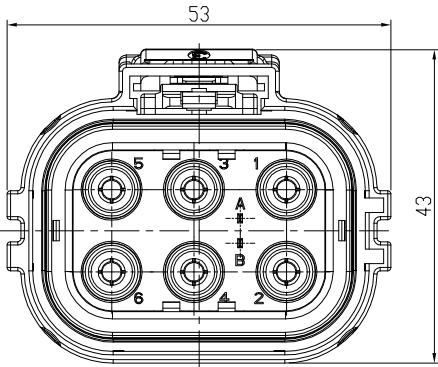


MOUNTING INTERFACE SPECIFICATION  
RECOMMENDED THICKNESS: 3.0mm Min

PANEL MOUNTING HOLES POSITIONS

PART NUMBER	INSERT ORIENTATIONS
HVSL366 026 A	 <p>The diagram shows a top-down view of the HVSL366 026 A connector. It features a square housing with four mounting holes at the corners. Inside, there is a circular insert with six terminals arranged in two rows of three. The top row terminals are labeled 1, 3, and 5 from left to right. The bottom row terminals are labeled 2, 4, and 6 from left to right. Two labels, 'A' and 'B', are positioned between the rows of terminals. Label 'A' is located between terminals 1 and 3, and label 'B' is located between terminals 2 and 4. The text 'Amphenol PCD SZ' is printed at the bottom of the insert.</p>
HVSL366 026 B	 <p>The diagram shows a top-down view of the HVSL366 026 B connector. It features a square housing with four mounting holes at the corners. Inside, there is a circular insert with six terminals arranged in two rows of three. The top row terminals are labeled 1, 3, and 5 from left to right. The bottom row terminals are labeled 2, 4, and 6 from left to right. Two labels, 'A' and 'B', are positioned between the rows of terminals. Label 'A' is located between terminals 1 and 3, and label 'B' is located between terminals 2 and 4. The text 'Amphenol PCD SZ' is printed at the bottom of the insert.</p>

PLUG

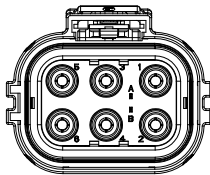
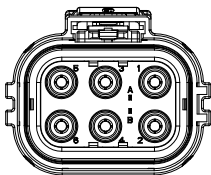


CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)

CONTACTS (Socket contact)		
HVIL CONTACTS	2.5mm <sup>2</sup>	4 to 6mm <sup>2</sup>
Integrated, no need to buy.	P/N: C310026003	P/N: C310026001

INSERT ORIENTATIONS



	Coding A	Coding B
P/N	HVSL366 066 A XXXI	HVSL366 066 B XXXI

# HOW TO ORDER (HVSL 366)

## HOW TO ORDER: PLUG

	HVSL366	06	6	A	0	04	I
<b>Product type:</b>		<b>06:</b> Straight plug					
<b>Position:</b>		<b>6:</b> 6 position					
<b>Coding / Alternate position:</b>		<b>A:</b> Coding A <b>B:</b> Coding B					
<b>Interlock:</b>		<b>0:</b> Without interlock <b>1:</b> With interlock					
<b>Cable size:</b>		<b>03:</b> 2.5mm <sup>2</sup> <b>04:</b> 4mm <sup>2</sup> <b>06:</b> 6mm <sup>2</sup>					
<b>Wire type:</b>		<b>I:</b> Individually shielded wire					

## HOW TO ORDER: RECEPTACLE

	HVSL366	02	6	A
<b>Product type:</b>		<b>02:</b> Box mounted receptacle		
<b>Position:</b>		<b>6:</b> 6 positions		
<b>Coding / Alternate position:</b>		<b>A:</b> Coding A <b>B:</b> Coding B		

## EXCEL | MATE Metal: 2 PIN & 3 PIN CONNECTOR



### EXCEL | MATE Metal

EXCEL | MATE Metal is a 2 pin and 3 pin connector with current carrying capacity from 80 to 120A and 16 to 25mm<sup>2</sup> crimping cable.

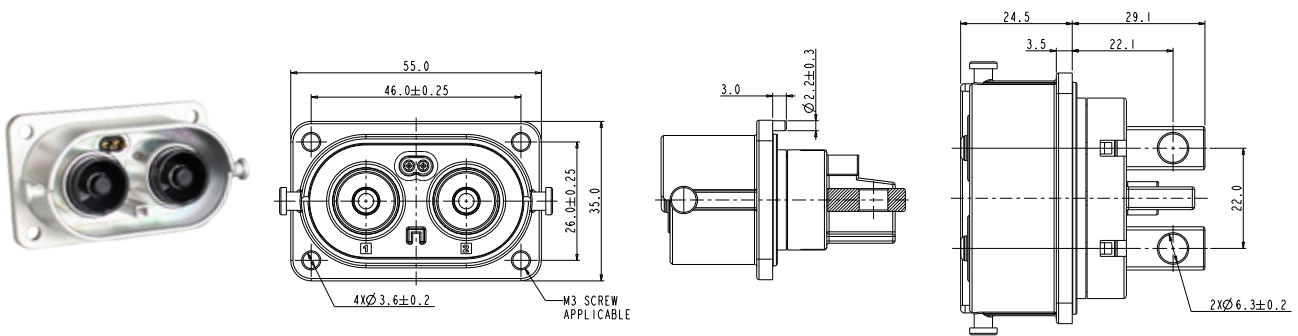
Specially designed for battery, inverters, junction boxes, power distribution boxes and others HEV devices' equipment.

### KEY FEATURES

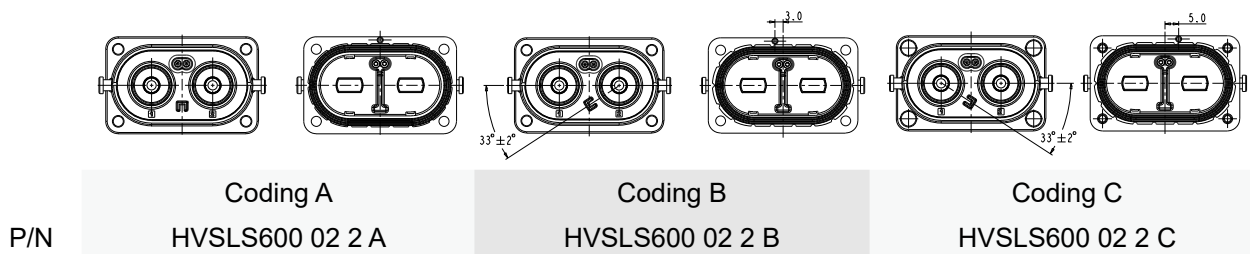
- Integrated internal HVIL
- Current rating up to 120A@ ambient temperature 70°C
- No tool required to unmate
- Sealing, IP67 (mated), IP6K9K
- Touch-proof, IP2XB
- Multiple coding positions
- CPA available

MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	16 to 25 mm <sup>2</sup> 6AWG/8AWG
Insertion and extraction force	< 100N
Connection type	Copper bar
HVIL	Integrated
CPA	Available
ELECTRICAL	
Rated voltage	1000V DC
Rated current	120A Max @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
Salt spray	96 hours
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Terminals	Copper/copper alloy with silver plating
Housing	Zinc alloy

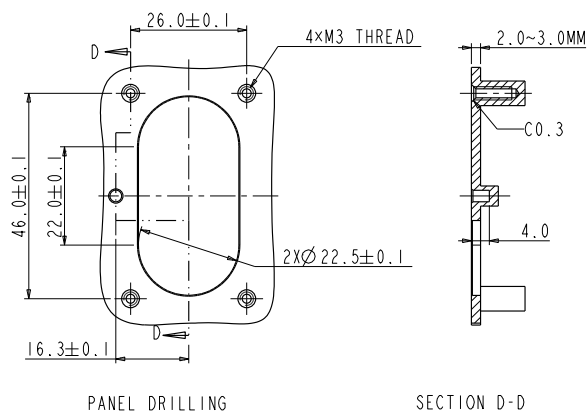
## 2 PIN RECEPTACLE



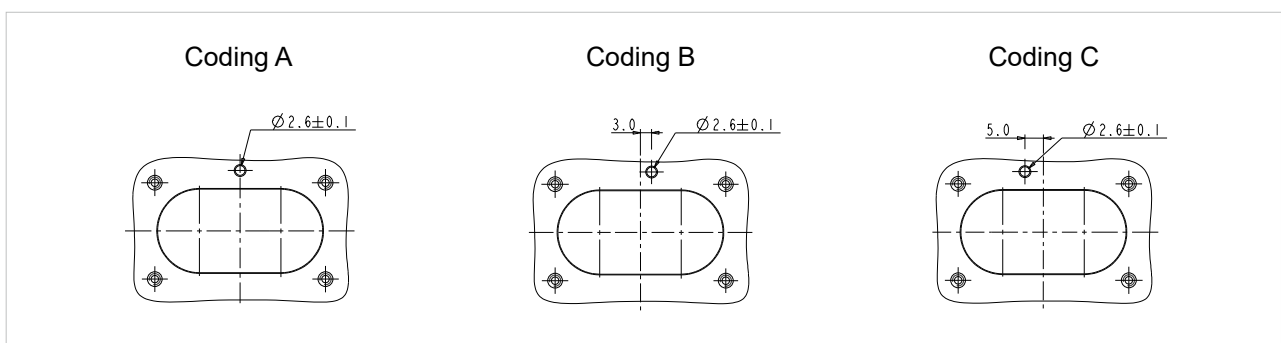
## INSERT ORIENTATIONS



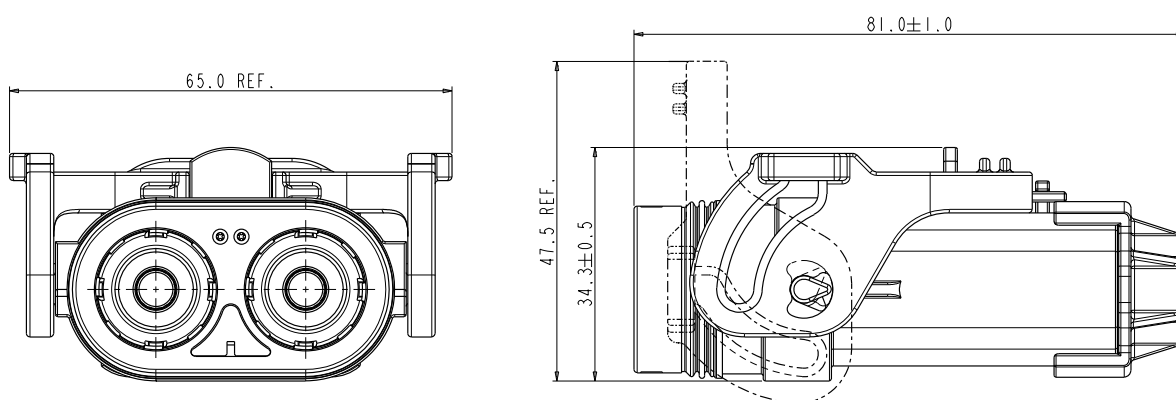
## PANEL MOUNTING DIMENSIONS



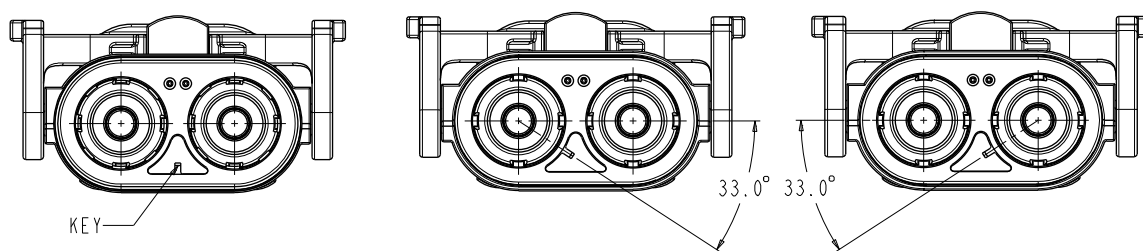
## INSERT ORIENTATIONS



2 PIN STRAIGHT PLUG



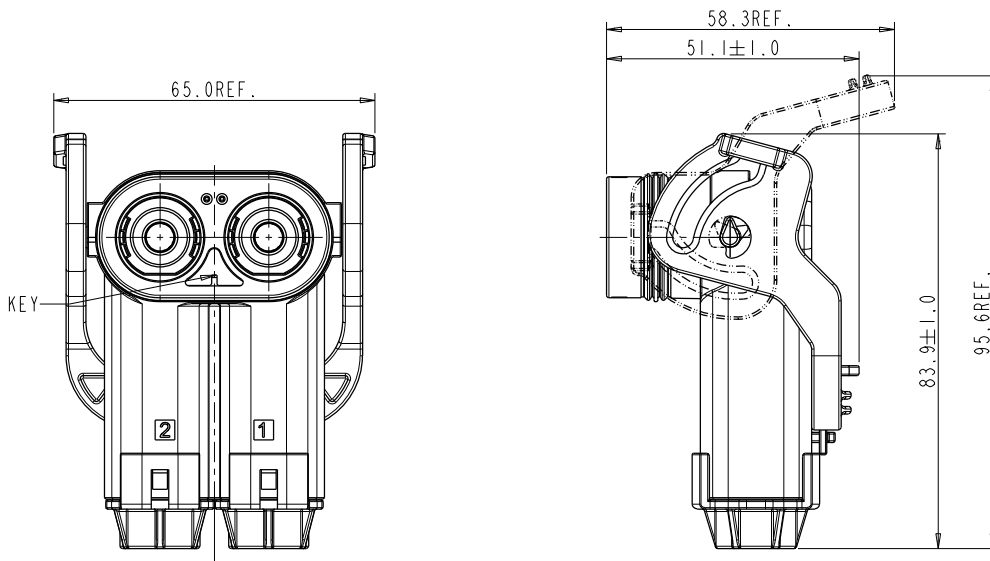
INSERT ORIENTATIONS



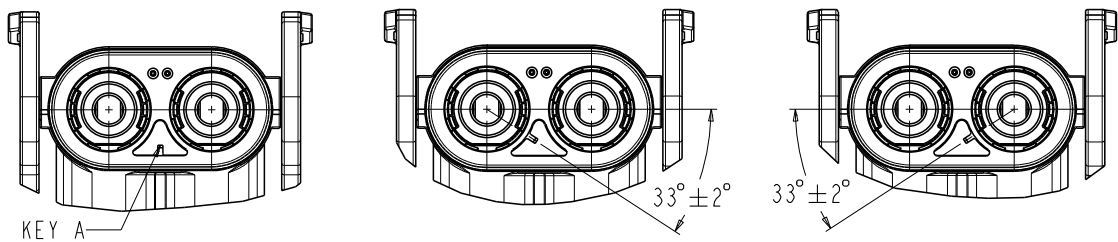
	Coding A	Coding B	Coding C
P/N	HVSL600 06 2 A	HVSL600 06 2 B	HVSL600 06 2 C

# Excel|Mate Metal (HVSLS 600)

## 2 PIN RIGHT ANGLE PLUG

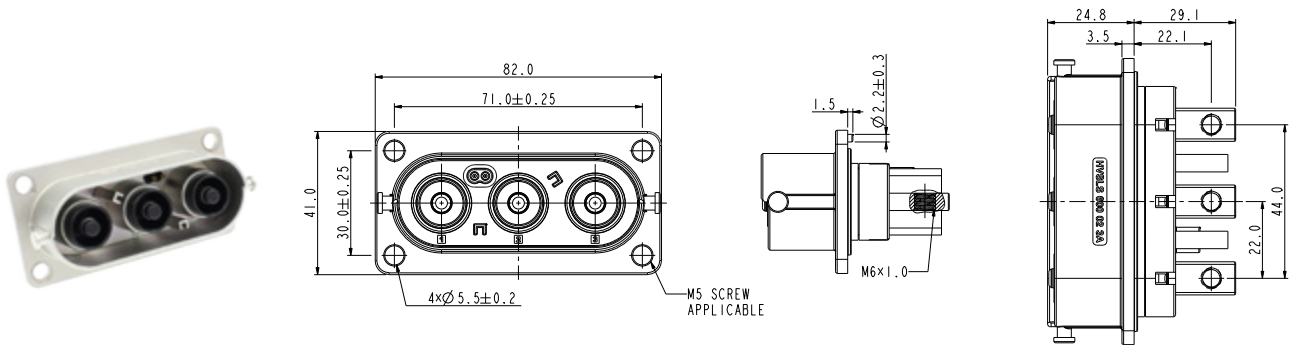


## INSERT ORIENTATIONS

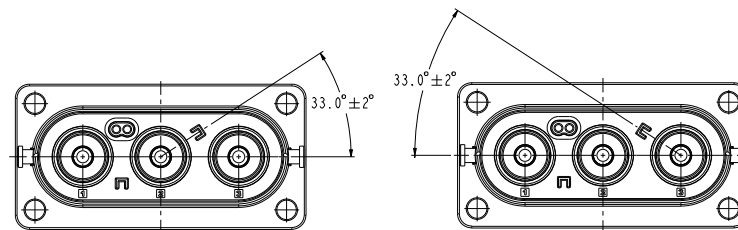


	Coding A	Coding B	Coding C
P/N	HVSLS600 08 2 A	HVSLS600 08 2 B	HVSLS600 08 2 C

3 PIN RECEPTACLE

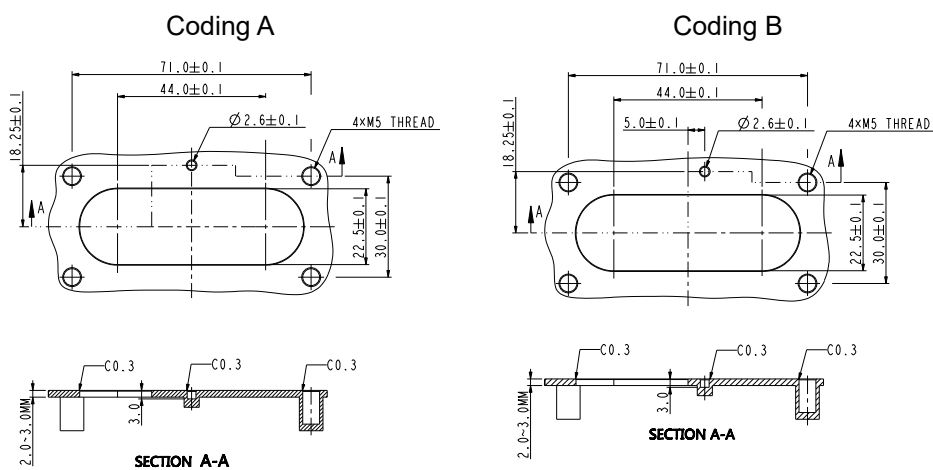


INSERT ORIENTATIONS



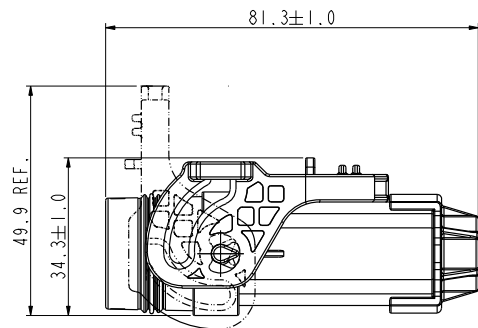
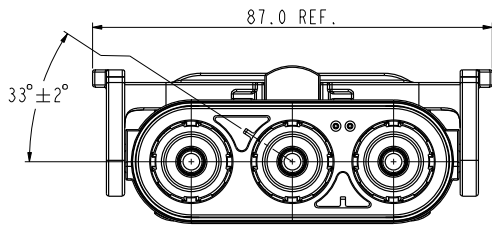
	Coding A	Coding B
P/N	HVSL600 02 3 A	HVSL600 02 3 B

PANEL MOUNTING DIMENSIONS

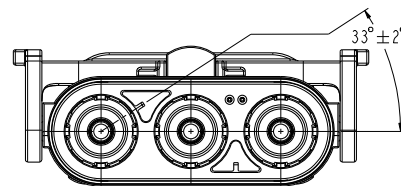
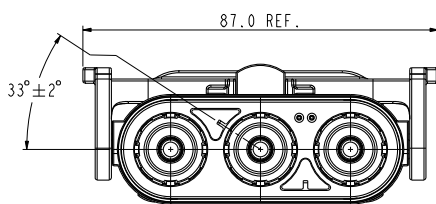


# Excel|Mate Metal (HVSL S 600)

## 3 PIN STRAIGHT PLUG

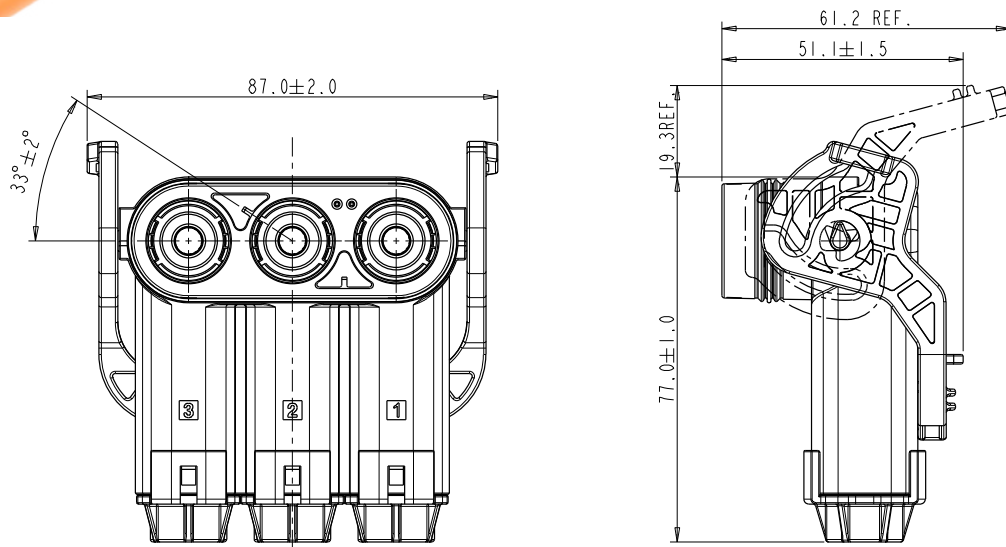


## INSERT ORIENTATIONS

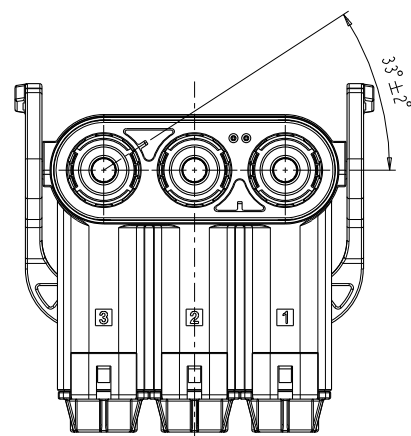
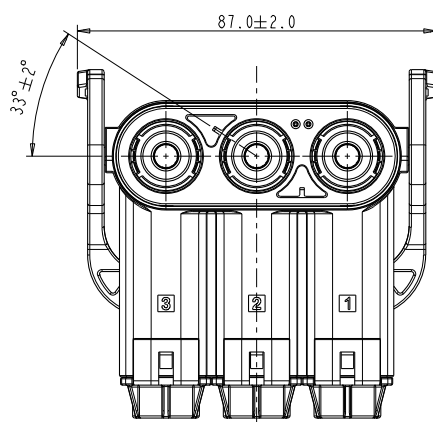


	Coding A	Coding B
P/N	HVSL S600 06 3 A	HVSL S600 06 3 B

3 PIN RIGHT ANGLE PLUG

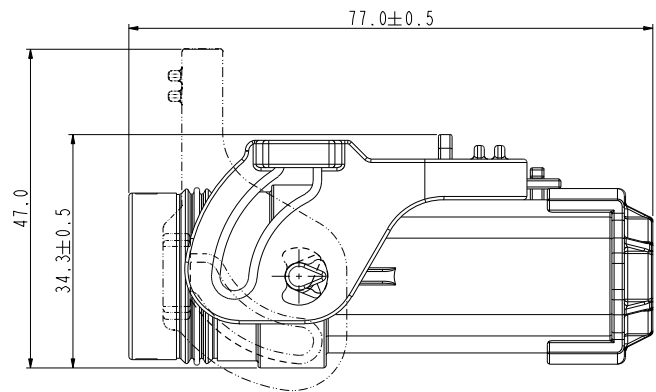
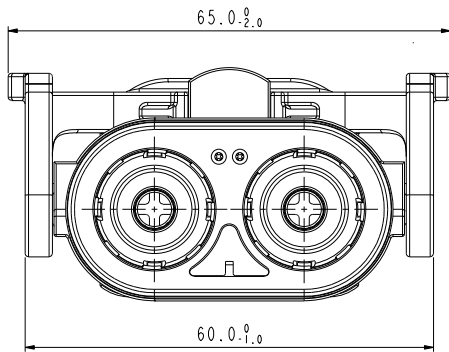


INSERT ORIENTATIONS



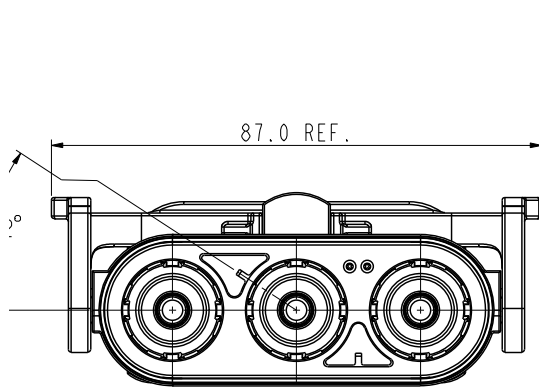
	Coding A	Coding B
P/N	HVSL S600 08 3 A	HVSL S600 08 3 B

DUMMY PLUG - 2PIN

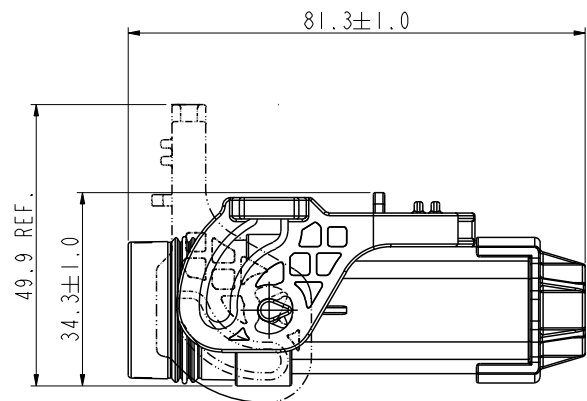


	HVSL S600	06	2	A	0	S03
<b>Product type:</b>	06: Straight plug					
<b>Position:</b>	2: 2 position					
<b>Coding / Alternate position:</b>	A: Coding A B: Coding B C: Coding C					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Dummy plug:</b>	S03					

DUMMY PLUG - 3PIN

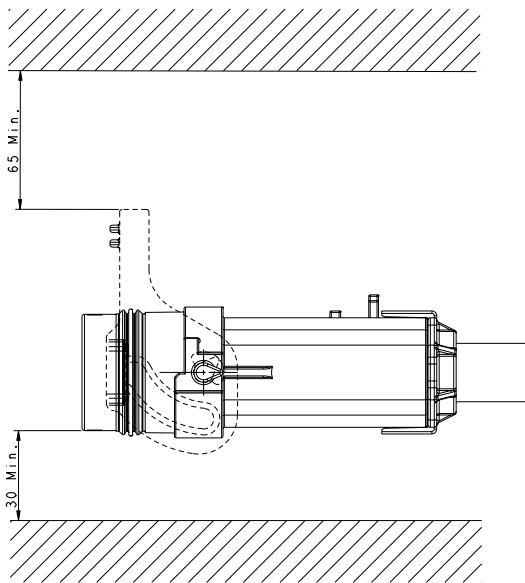


CODING A



	HVSL S600	06	3	A	0	S02
<b>Product type:</b>	06: Straight plug					
<b>Position:</b>	3: 3 position					
<b>Coding / Alternate position:</b>	A: Coding A B: Coding B					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Dummy plug:</b>	S02					

INSTALLATION CLEARANCE



TOOL FOR RIGHT ANGLE PLUGS



Remark:

Customer needs to use fixture HVSLP033002 with Stanley torque wrench sleeve (purchased by the customer) for assembling the finish product HVSLS600082.

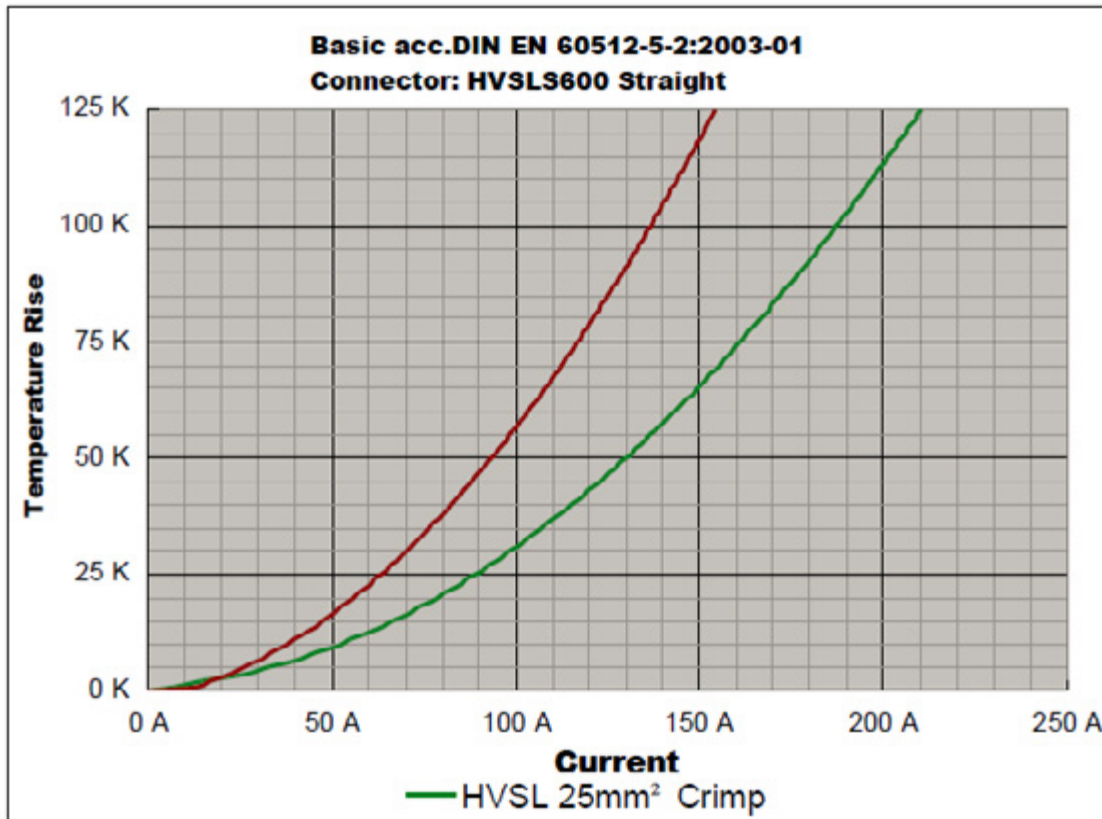
HOW TO ORDER: PLUG

	HVSLS600	06	2	A	0	16
<b>Product type:</b>	06: Straight plug   08: Right angle plug					
<b>Position:</b>	2: 2 position   3: 3 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B   C: Coding C (for 2-pos. only)					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Cable size:</b>	16: 16mm <sup>2</sup> cable   25: 25mm <sup>2</sup> cable					

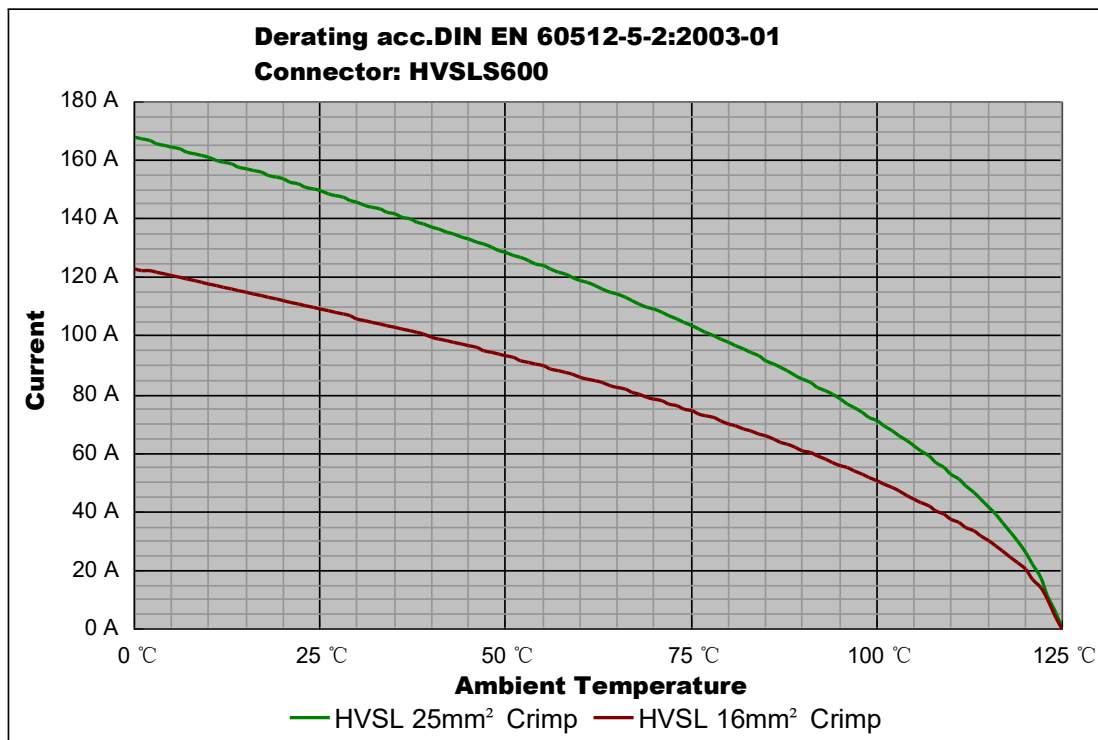
HOW TO ORDER: RECEPTACLE

	HVSLS600	02	2	A	0	H6
<b>Product type:</b>	02: Box mounted receptacle					
<b>Position:</b>	2: 2 position   3: 3 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B   C: Coding C (for 2-pos. only)					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Cable size:</b>	H6: OT terminal					

## HVSL 600 | Temperature Rise



## HVSL 600 | Derating Curve



Remark: tests carried out on the complete connector.

# EXCEL | MATE Metal (HVSL5 800)

## EXCEL | MATE Metal (HVSL5 800)



### EXCEL | MATE Metal

EXCEL | MATE Metal is a 2 pin connector with a current carrying capacity of 180A and 25 to 50mm<sup>2</sup> crimping cable.

Specially designed for battery, inverters, junction boxes, power distribution boxes and others HEV devices' equipment.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 180A@ ambient temperature 70°C

No tool required to unmate

Sealing, IP67 (mated), IP6K9K

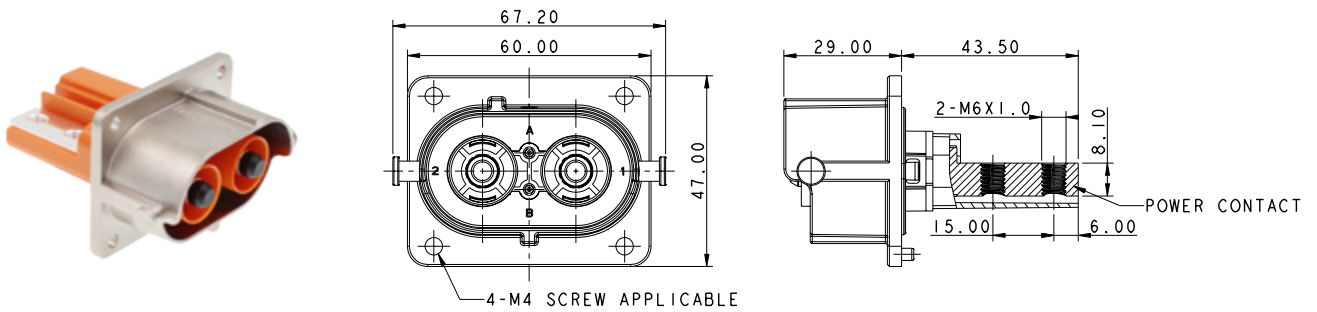
Touch-proof, IP2XB

Multiple coding positions

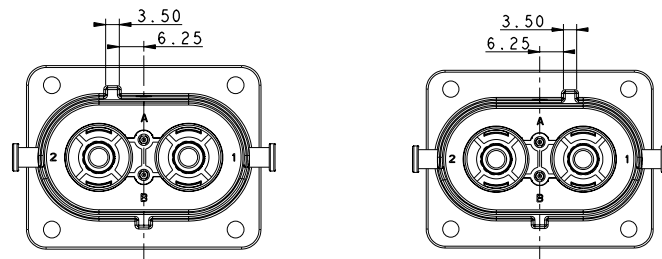
CPA available

MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	25 to 50 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 75N
Connection type	Copper bar
HVIL	Integrated
CPA	Available
ELECTRICAL	
Rated voltage	1000V DC
Rated current	180A Max @ ambient temperature 70°C
Insulator resistance	> 200MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
Salt spray	96 hours
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	
MATERIAL	
Terminals	Copper/copper alloy with silver plating
Housing	Aluminium alloy

RECEPTACLE

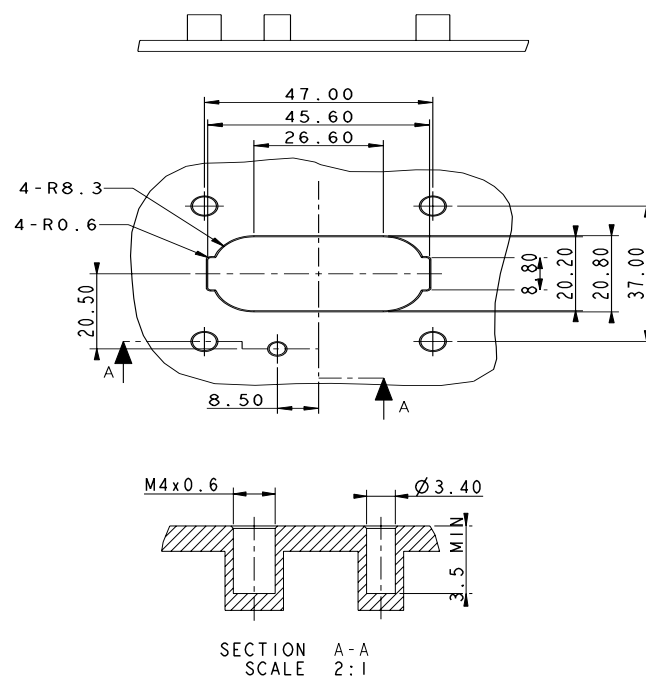


INSERT ORIENTATIONS



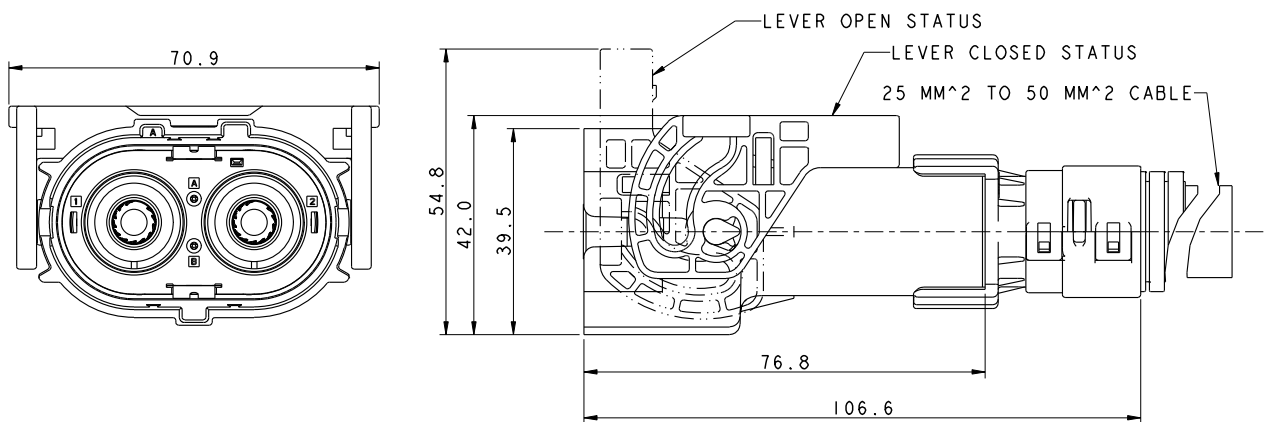
	Coding A	Coding B
P/N	HVSL800 02 2 A	HVSL800 02 2 B

PANEL MOUNTED DIMENSIONS

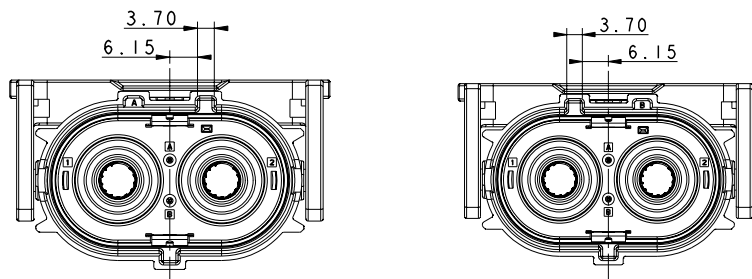


# Excel|Mate Metal (HVSL S 800)

## STRAIGHT PLUG



## INSERT ORIENTATIONS

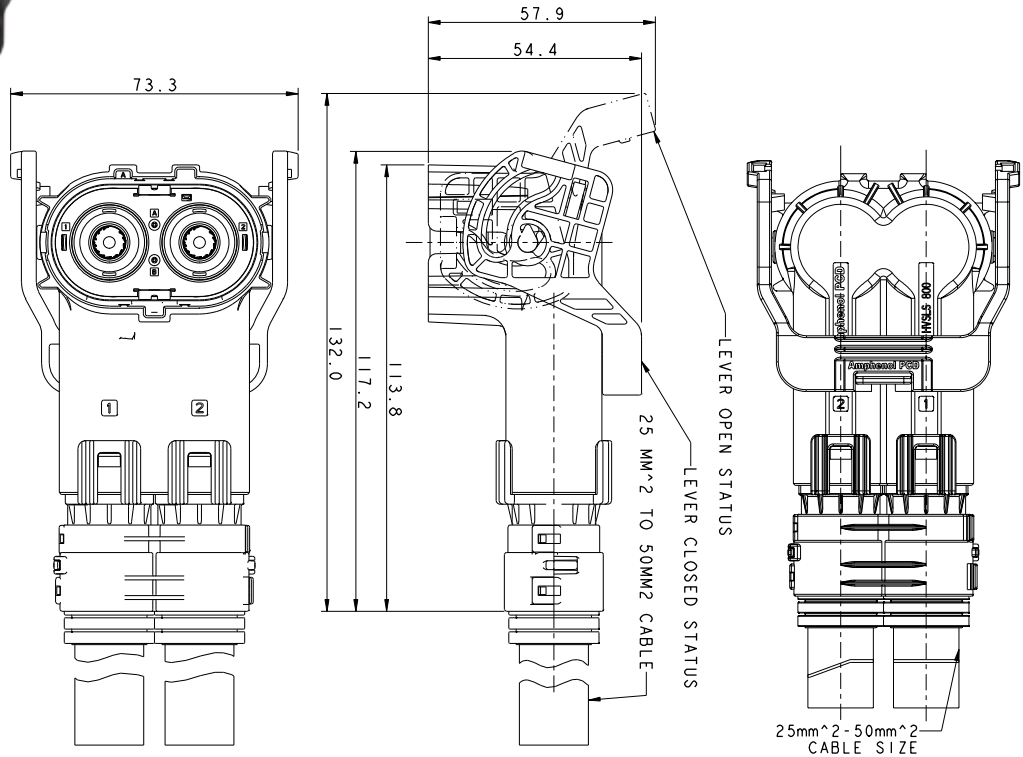


P/N

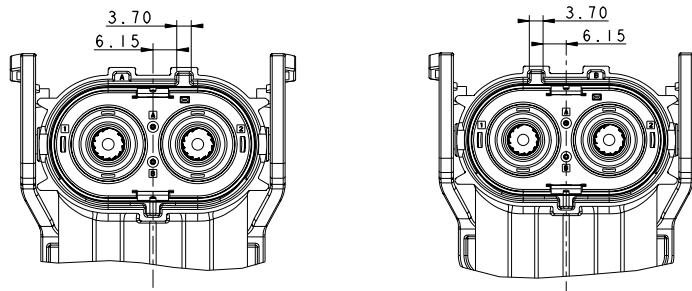
Coding A  
HVSL S800 06 2 A

Coding B  
HVSL S800 06 2 B

PLUG RIGHT ANGLE

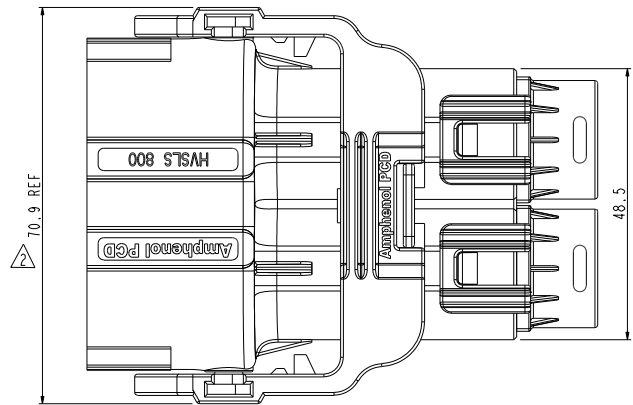
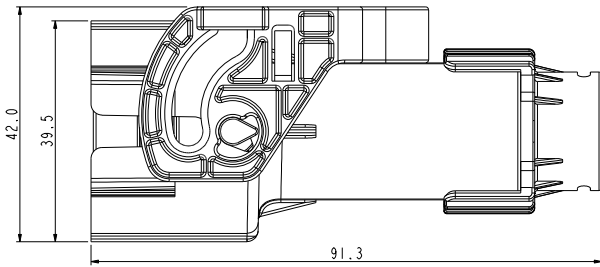


INSERT ORIENTATIONS



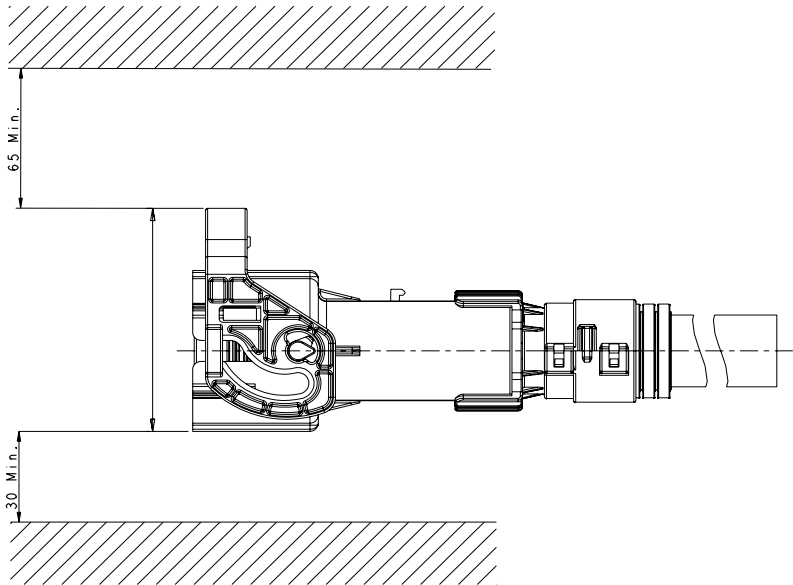
	Coding A	Coding B
P/N	HVSL800 08 2 A	HVSL800 08 2 B

DUMMY PLUG - 2PIN



	HVSL S800	06	2	A	S1
<b>Product type:</b>	06: Straight plug				
<b>Position:</b>	2: 2 position				
<b>Coding / Alternate position:</b>	A: Coding A B: Coding B				
<b>Dummy plug:</b>	S1				

INSTALLATION CLEARANCE



HOW TO ORDER: PLUG

	HVSL S800	06	2	A	0	35
<b>Product type:</b>	06: Straight plug   08: Right angle plug					
<b>Position:</b>	2: 2 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Cable size:</b>	25: 25mm <sup>2</sup> cable   35: 35mm <sup>2</sup> cable   50: 50mm <sup>2</sup> cable					

HOW TO ORDER: RECEPTACLE

	HVSL S800	02	2	A	0	H6
<b>Product type:</b>	02: Box mounted receptacle					
<b>Position:</b>	2: 2 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Cable size:</b>	H6: OT terminal					

# EXCEL | MATE Metal (HVSL 8003)

## EXCEL | MATE Metal (HVSL 8003)



### EXCEL | MATE Metal

EXCEL | MATE Metal is a 2 pin connector with a current carrying capacity of 180A and 25 to 50mm<sup>2</sup> crimping cable.

Specially designed for battery, inverters, junction boxes, power distribution boxes and others HEV devices' equipment.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 180 A@ ambient temperature 70°C

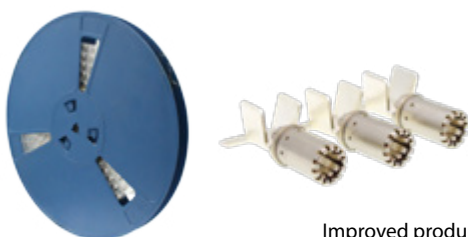
No tool required to unmate

Sealing, IP67 (mated), IP6K9K

Touch-proof, IP2XB

Multiple coding positions

CPA available



Improved production efficiency. Automated tape and reel packaging.

### MECHANICAL

Durability	≥ 50 mating cycles
Wire range	25 to 50 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 75N
Connection type	Copper bar
HVIL	Integrated
CPA	Available

### ELECTRICAL

Rated voltage	1000V DC
Rated current	180A Max @ ambient temperature 70°C
Insulator resistance	> 200MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device

### ENVIRONMENTAL

Sealing	IP67, IP6K9K (mated)
Touch-proof	IP2XB
Temperature range	-40°C to 125°C
Salt spray	96 hours

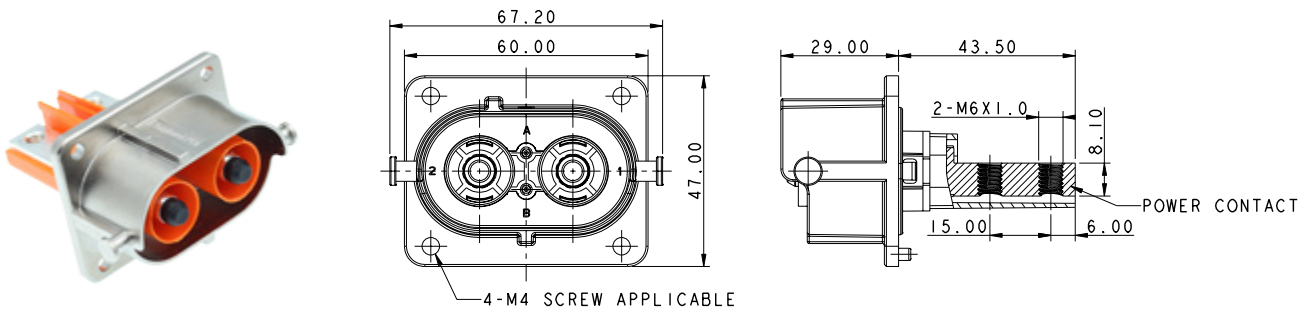
### STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

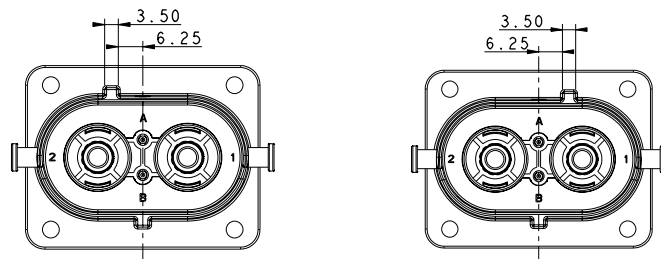
### MATERIAL

Terminals	Copper/copper alloy with silver plating
Housing	Aluminium alloy

RECEPTACLE

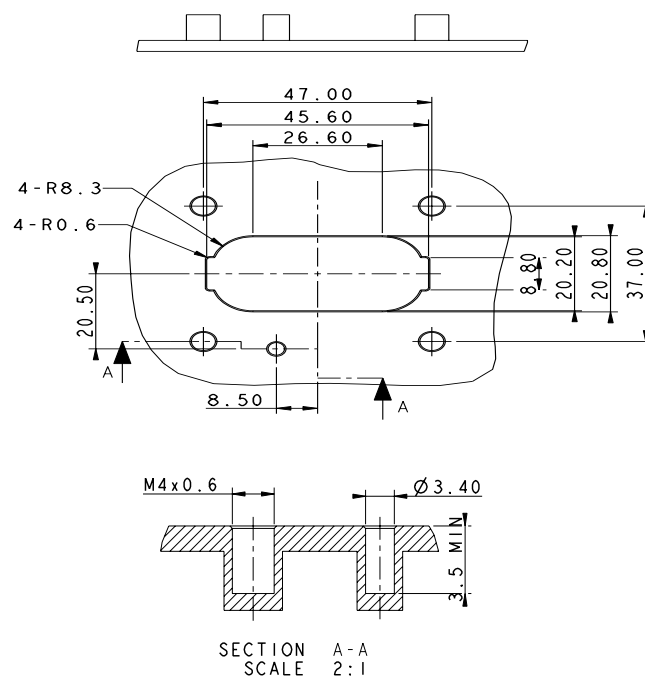


INSERT ORIENTATIONS

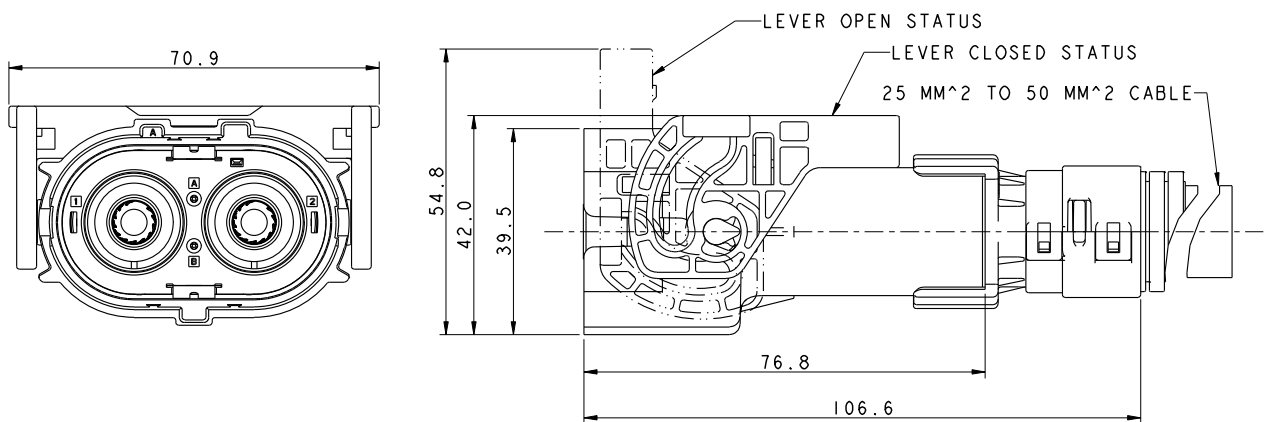


	Coding A	Coding B
P/N	HVSL8003 2 2 A	HVSL8003 2 2 B

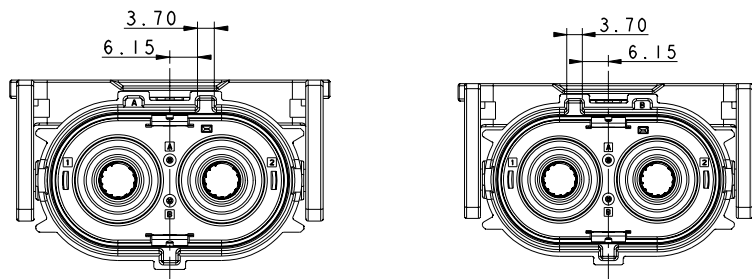
PANEL MOUNTED DIMENSIONS



STRAIGHT PLUG



INSERT ORIENTATIONS

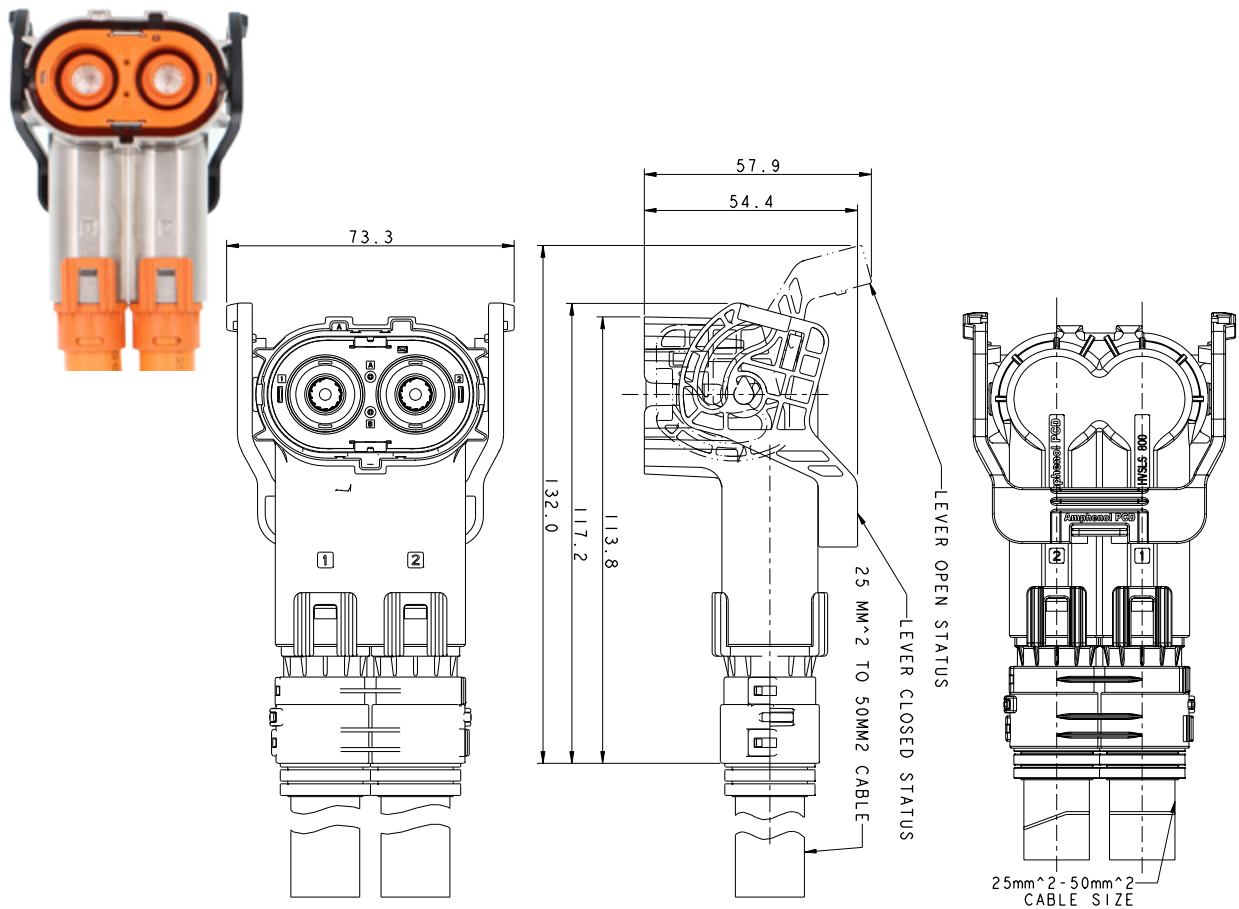


P/N

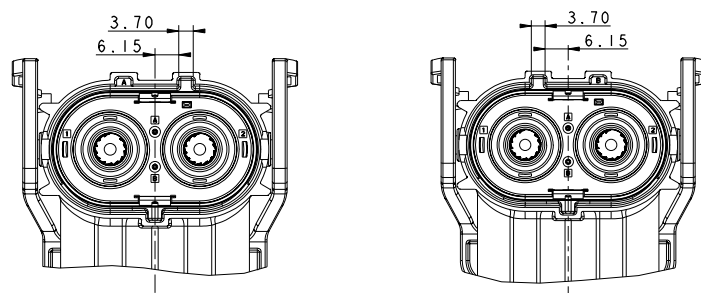
Coding A  
HVSL8003 6 2 A

Coding B  
HVSL8003 6 2 B

RIGHT ANGLE PLUG

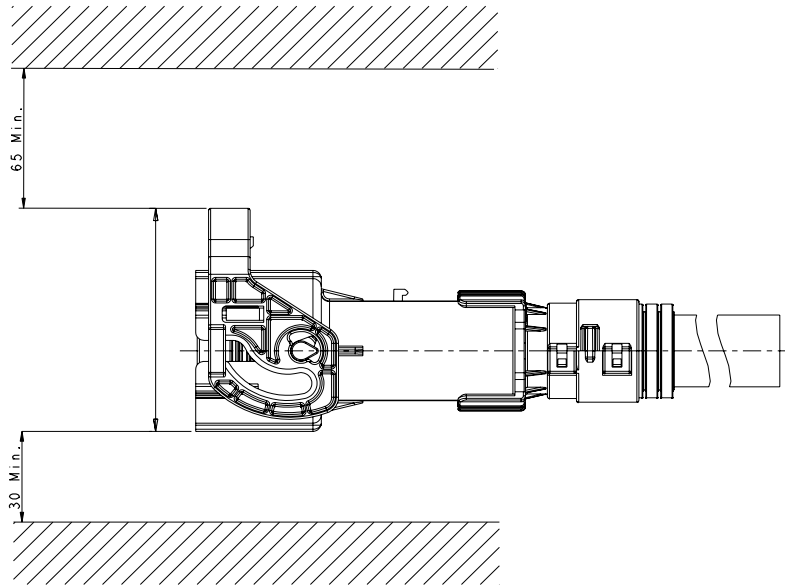


INSERT ORIENTATIONS



	Coding A	Coding B
P/N	HVSL8003 8 2 A	HVSL8003 8 2 B

INSTALLATION CLEARANCE



HOW TO ORDER: PLUG

	HVSL8003	6	2	A	0	35
<b>Product type:</b>	6: Straight plug   8: Right angle plug					
<b>Position:</b>	2: 2 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Cable size:</b>	25: 25mm <sup>2</sup> cable   35: 35mm <sup>2</sup> cable   50: 50mm <sup>2</sup> cable					

HOW TO ORDER: RECEPTACLE

	HVSL8003	2	2	A	0	H6
<b>Product type:</b>	2: Box mounted receptacle					
<b>Position:</b>	2: 2 position					
<b>Coding / Alternate position:</b>	A: Coding A   B: Coding B					
<b>Interlock:</b>	0: Without interlock   1: With interlock					
<b>Cable size:</b>	H6: OT terminal					

## EXCEL | MATE PT (HVPT - PASS-THROUGH WITH CABLE GLAND)



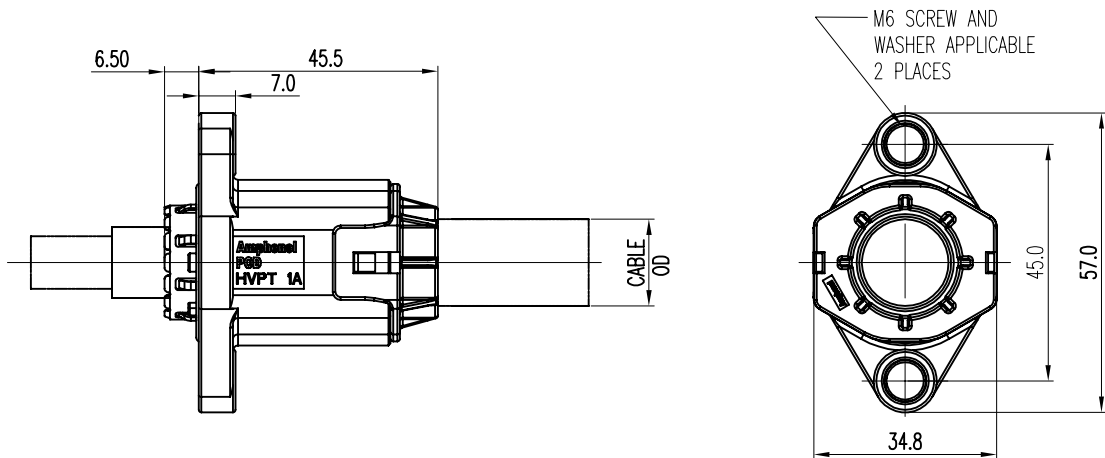
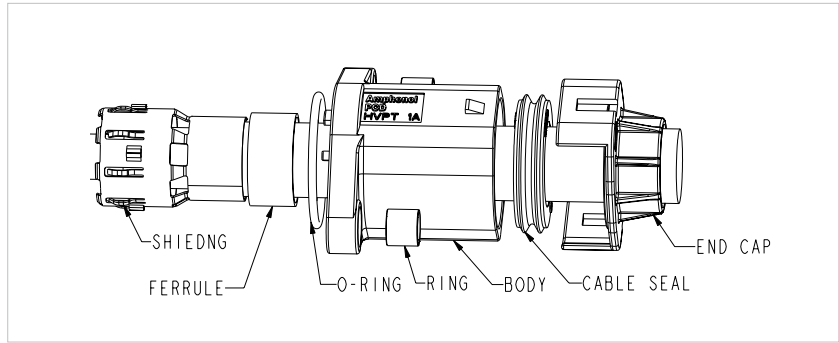
MECHANICAL	
Wire range	25 to 70 mm <sup>2</sup> shielded wires
Connection type	Crimping
ELECTRICAL	
Rated voltage	1000V DC
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS & REACH	
MATERIAL	
Housing	PA66 + GF

### KEY FEATURES

- 1 to 3 positions available
- Light in weight with plastic shell
- Easy to install, reliable connection
- Sealing, IP67, IP6K9K
- Multiple coding positions
- 360° shielded from wire to device
- Economical

# Excel|Mate PT (HVPT)

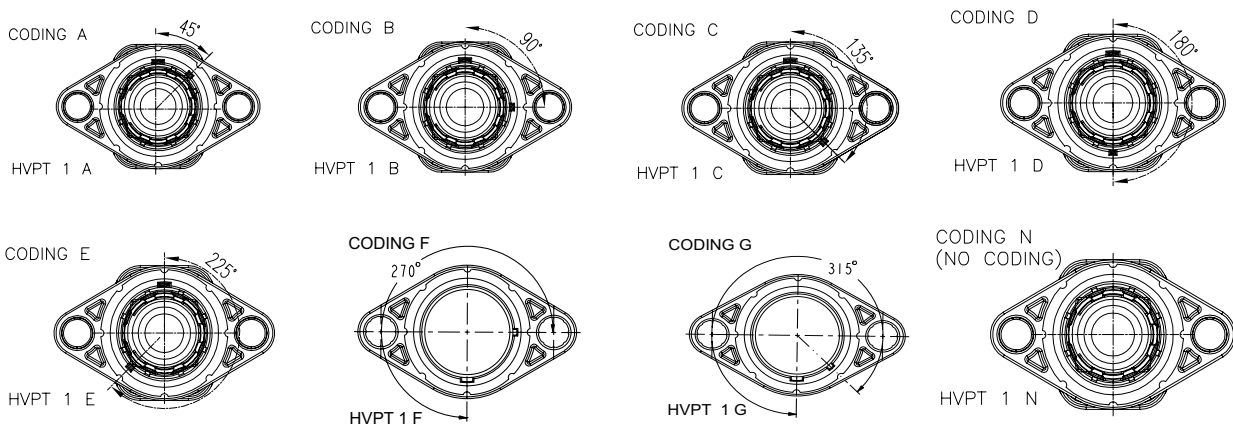
## 1 POSITION PASS-THROUGH



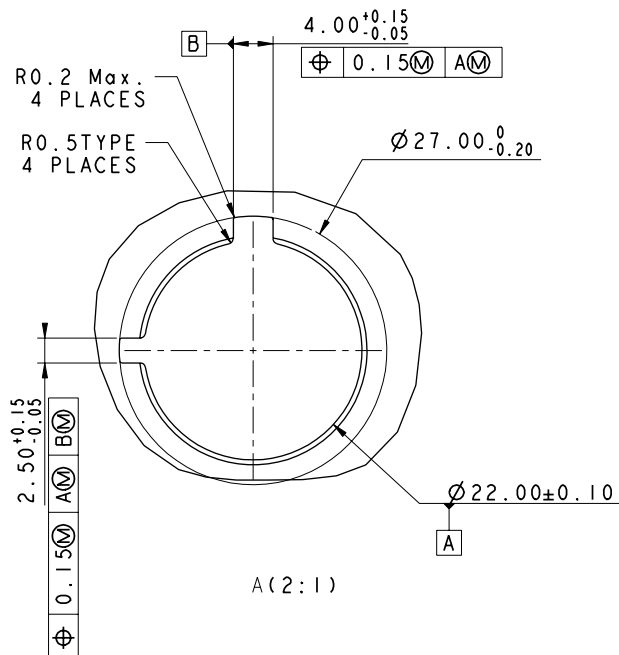
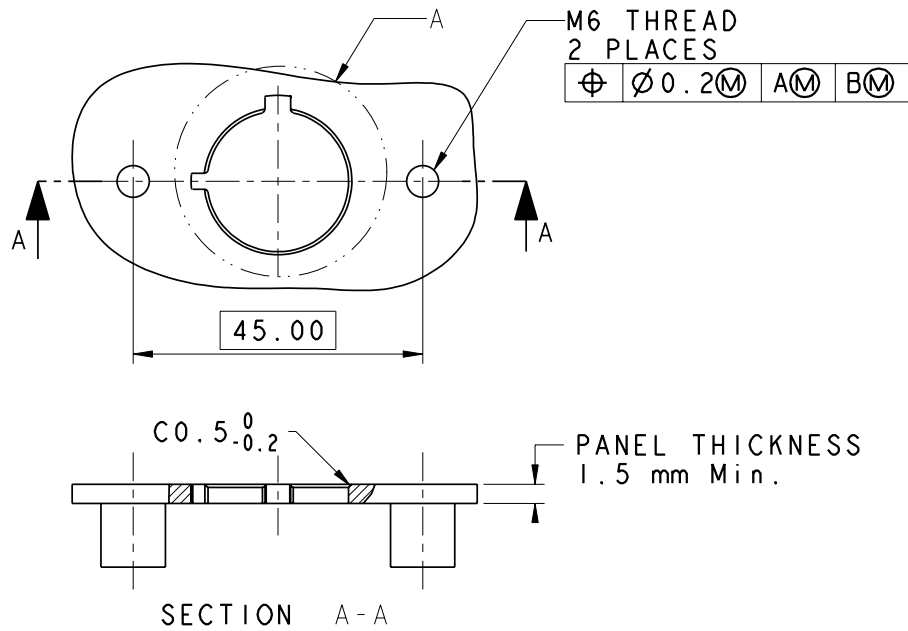
## CONTACTS

Part number	Conductor cross section (mm <sup>2</sup> )	Cable OD
HVPT 1 X 70	70	19.0±0.4
HVPT 1 X 50	50	16.5±0.4
HVPT 1 X 35	35	14.2±0.4
HVPT 1 X 25	25	11.9±0.4

## INSERT ORIENTATIONS

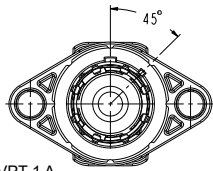


PANEL MOUNTING DIMENSIONS



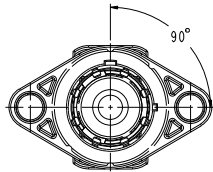
## PANEL MOUNTING DIMENSIONS

CODING A



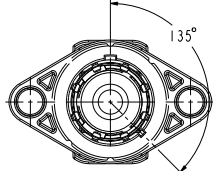
HVPT 1 A

CODING B



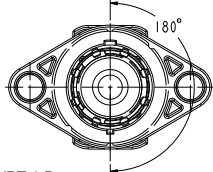
HVPT 1 B

CODING C



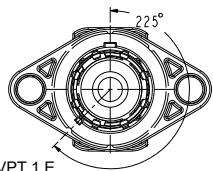
HVPT 1 C

CODING D



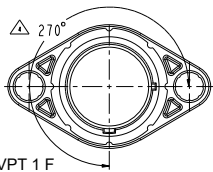
HVPT 1 D

CODING E



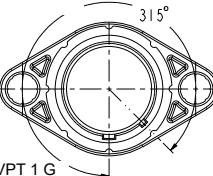
HVPT 1 E

CODING F



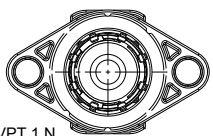
HVPT 1 F

CODING G



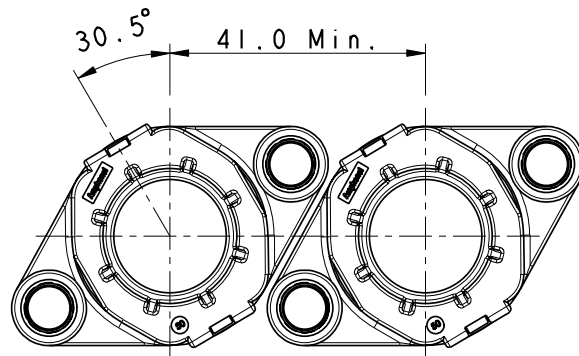
HVPT 1 G

NO CODING (N)

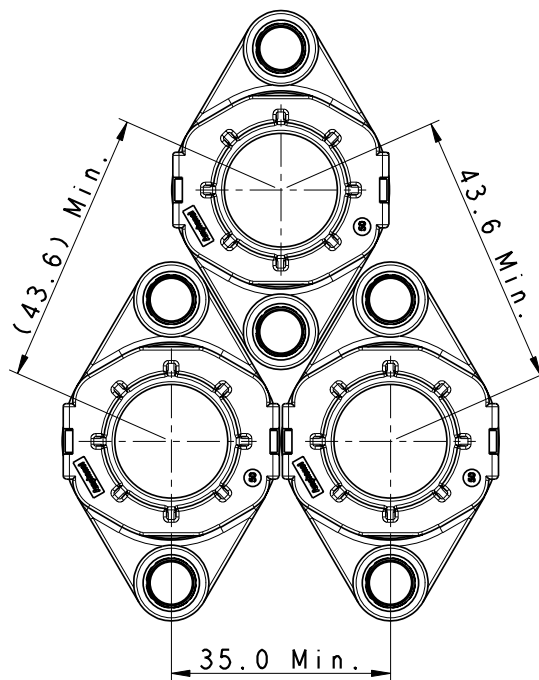


HVPT 1 N

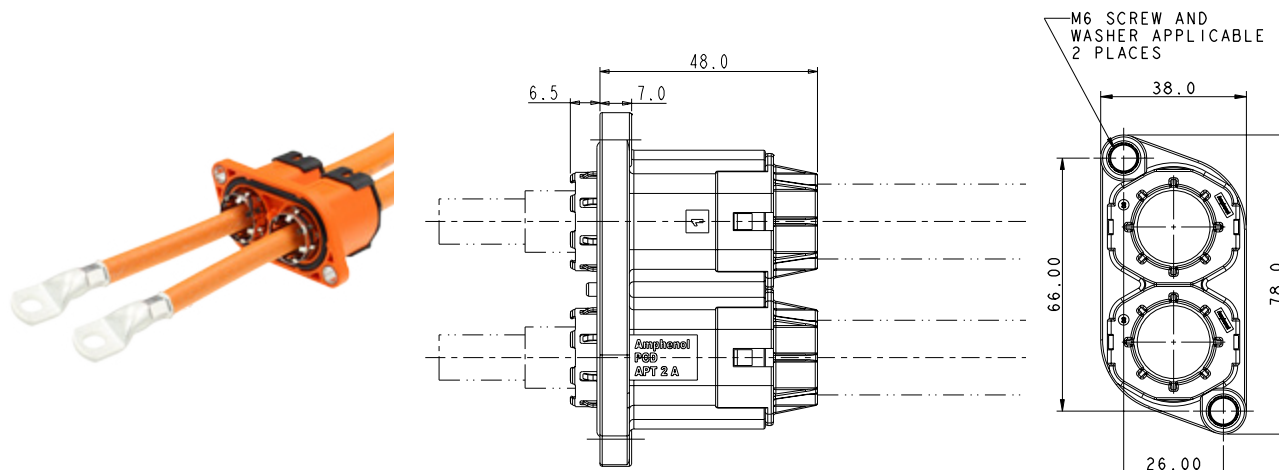
## RECOMMENDED LAYOUT FOR 2 UNITS



## RECOMMENDED LAYOUT FOR 3 UNITS



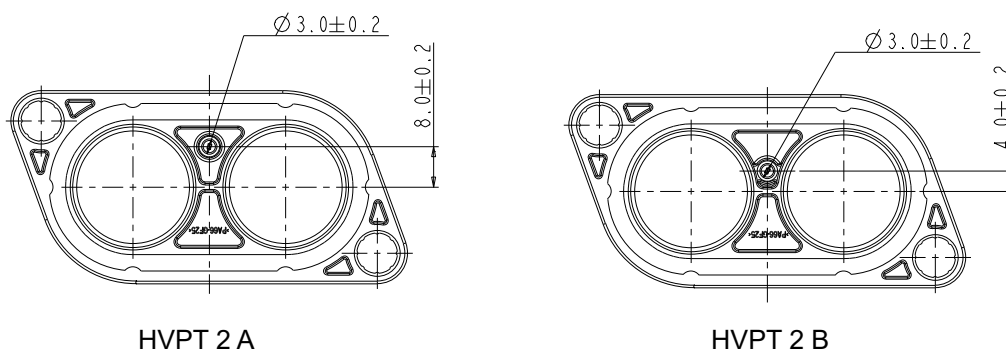
## 2 POSITION PASS-THROUGH



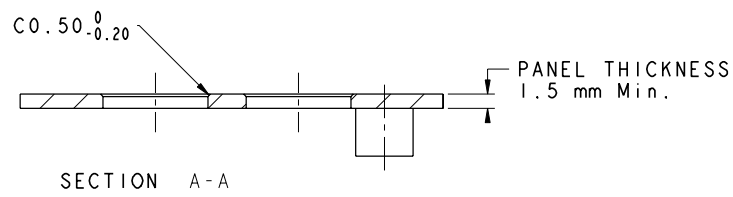
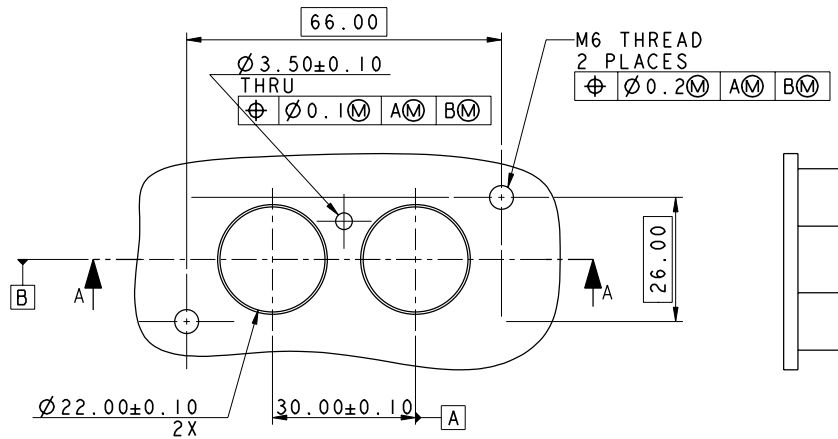
## CONTACTS

Part number	Conductor cross section (mm <sup>2</sup> )	Cable OD
HVPT 2 X 70	70	19.0±0.4
HVPT 2 X 50	50	16.5±0.4
HVPT 2 X 35	35	14.2±0.4
HVPT 2 X 25	25	11.9±0.4

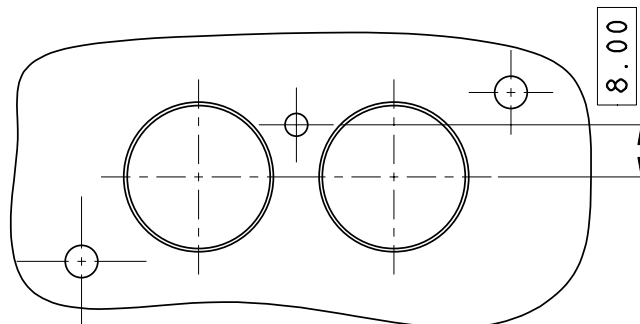
## INSERT ORIENTATIONS



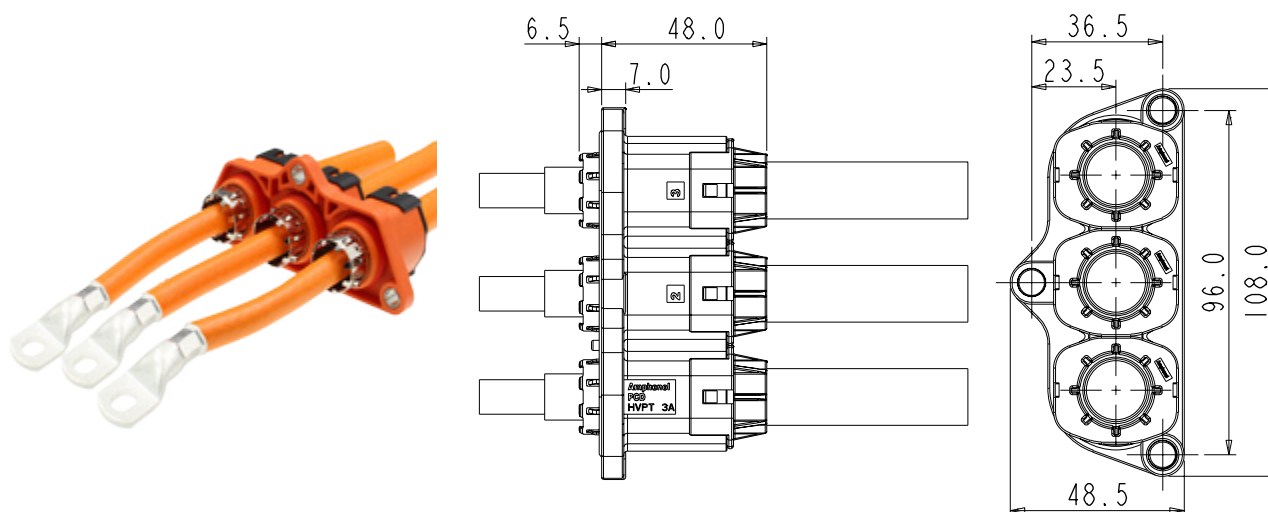
PANEL MOUNTING DIMENSION



CODING A



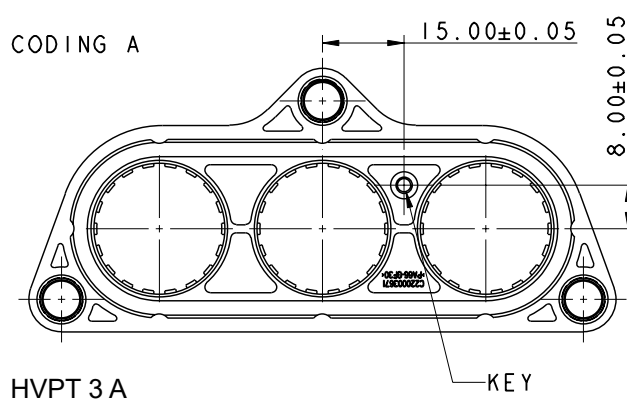
## 3 POSITION PASS-THROUGH



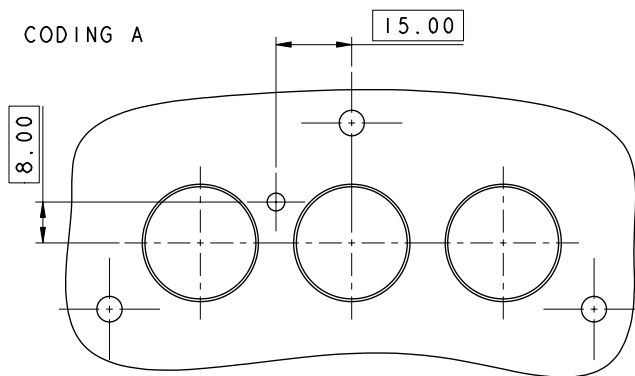
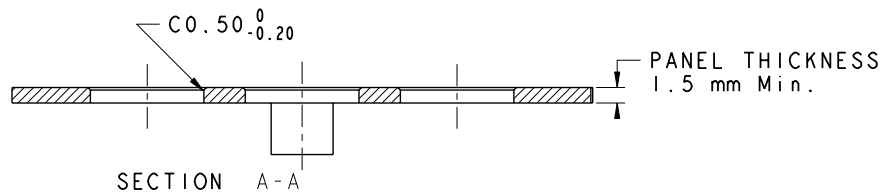
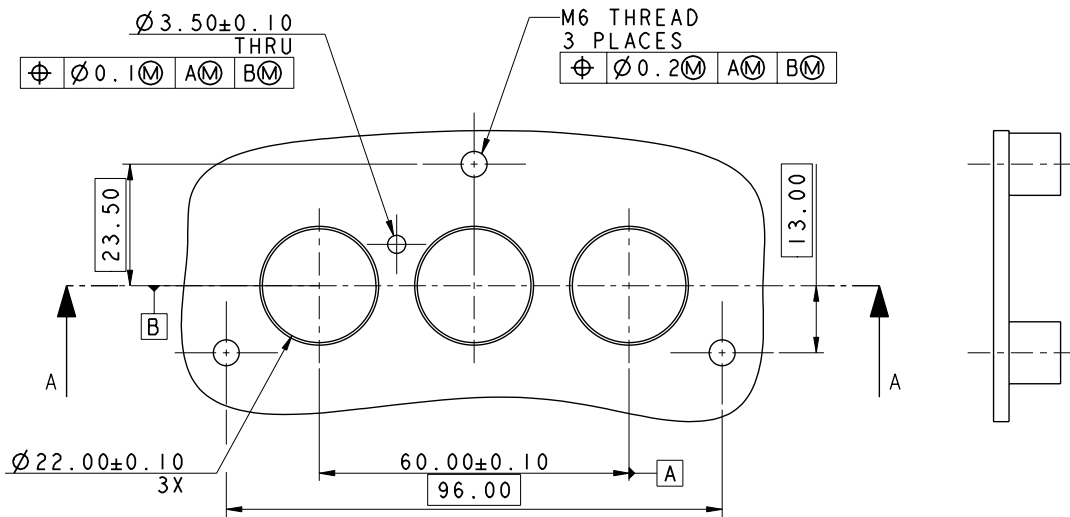
## CONTACTS

Part number	Conductor cross section (mm <sup>2</sup> )	Cable OD
HVPT 3 X 70	70	19.0±0.4
HVPT 3 X 50	50	16.5±0.4
HVPT 3 X 35	35	14.2±0.4
HVPT 3 X 25	25	11.9±0.4

## INSERT ORIENTATIONS



PANEL MOUNTING DIMENSIONS



## HVPT B PASS-THROUGH

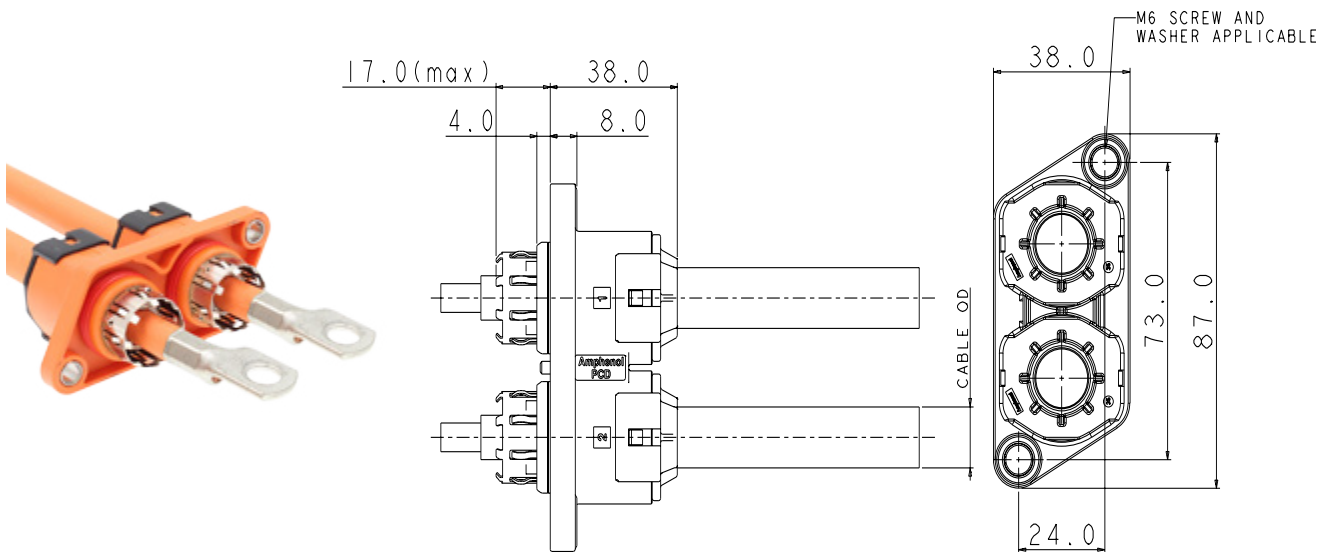


### KEY FEATURES

- 2 & 3 positions available
- Light in weight with plastic shell
- Easy to install, reliable connection
- Sealing, IP67 & IP6K9K (mated)
- Multiple coding positions
- 360° shielded from wire to device
- Economical

MECHANICAL	
Wire range	25 to 70 mm <sup>2</sup> shielded wires
Connection type	Crimping
ELECTRICAL	
Rated voltage	1000V DC
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K
Temperature range	-40°C to 125°C
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS & REACH	
MATERIAL	
Housing	PA66 + GF

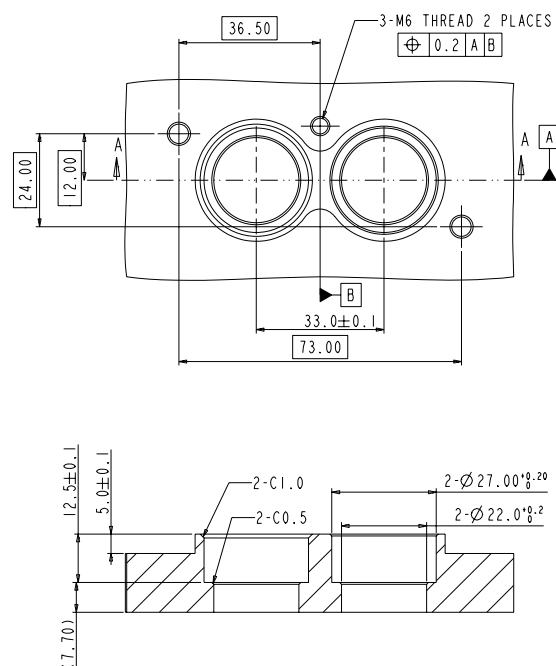
## HVPTB 2 POSITION PASS-THROUGH



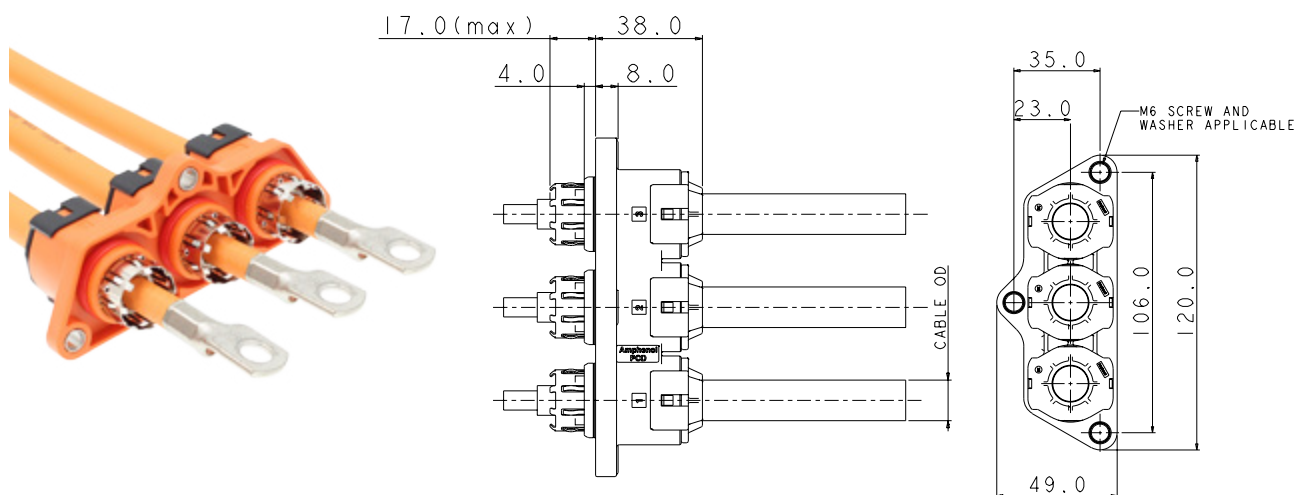
## PART NUMBER

Part number	Conductor cross section (mm <sup>2</sup> )	Cable OD
HVPTB 2 B 70	70	19.0±0.4
HVPTB 2 B 50	50	16.5±0.4
HVPTB 2 B 35	35	14.2±0.4
HVPTB 2 B 25	25	11.9±0.4

## PANEL MOUNTING DIMENSIONS



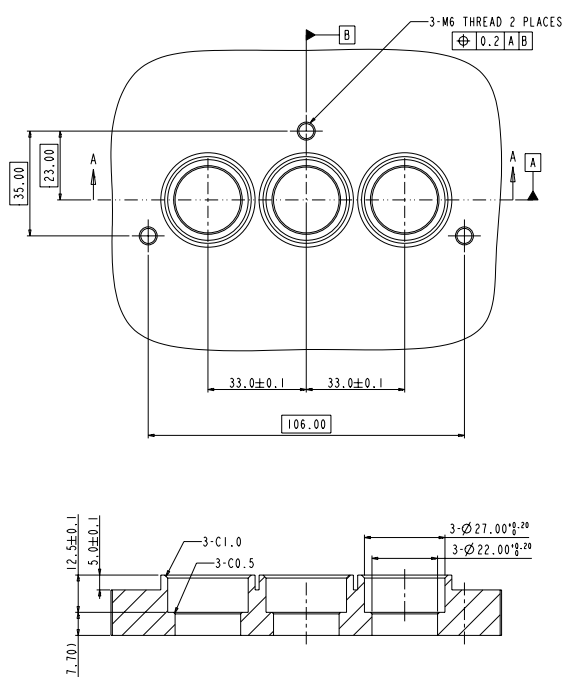
## HVPTB 3 POSITION PASS-THROUGH



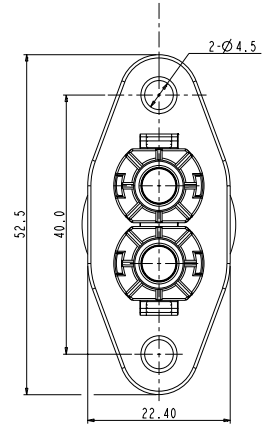
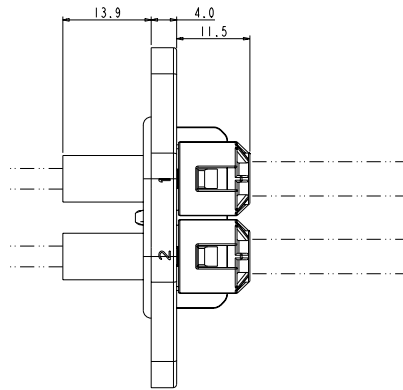
## PART NUMBER

Part number	Conductor cross section (mm <sup>2</sup> )	Cable OD
HVPTB 3 N 70	70	19.0±0.4
HVPTB 3 N 50	50	16.5±0.4
HVPTB 3 N 35	35	14.2±0.4
HVPTB 3 N 25	25	11.9±0.4

## PANEL MOUNTING DIMENSIONS



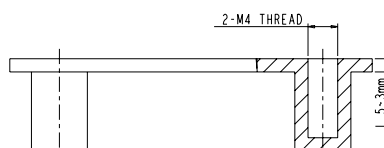
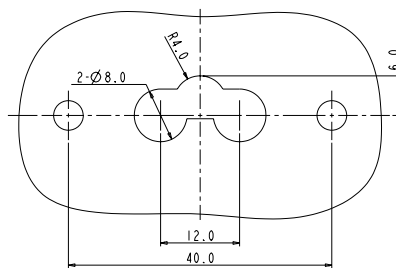
HVPTB 2A POSITION PASS-THROUGH



PART NUMBER

Part number	Conductor cross section (mm <sup>2</sup> )	Cable OD (mm)
HVPTB 2A 03	2.5 / 3.0	5.2 ± 0.2

PANEL MOUNTING DIMENSIONS



## HVPC PASS-THROUGH



### KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

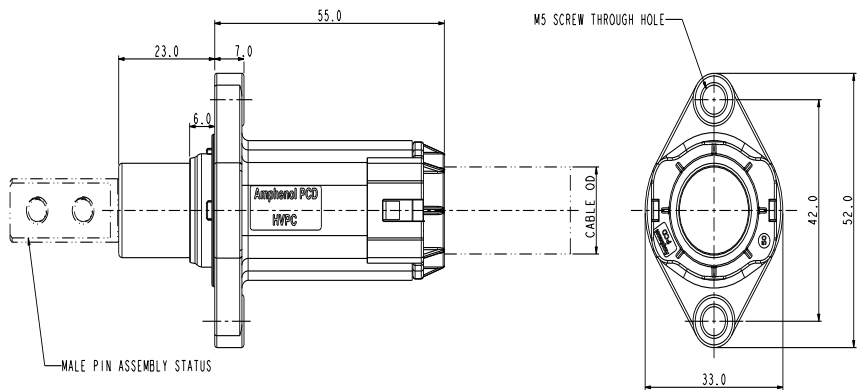
Multiple coding positions

360° shielded from wire to device

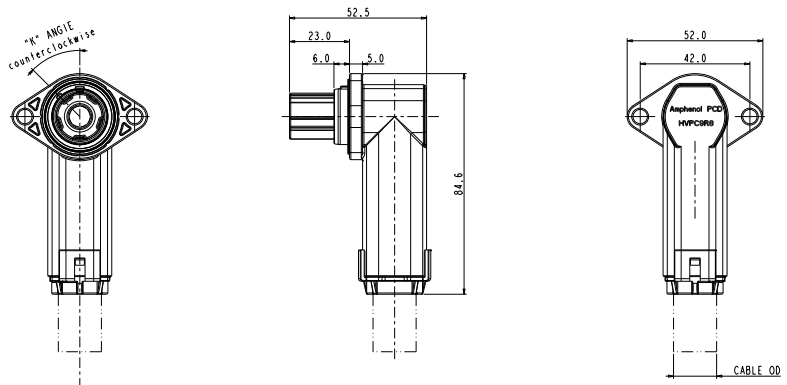
Economical

MECHANICAL	
Durability	≥ 50 mating cycles
Wire range	35 to 50 mm <sup>2</sup> shielded wire
Insertion and extraction force	< 100N
Connection type	Crimp
ELECTRICAL	
Rated voltage	1000V DC
Rated current	Max 180A @ ambient temperature 70°C
Insulator resistance	> 100MΩ
Dielectric withstand voltage	3000V AC
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Temperature range	-40°C to 125°C
Salt spray	96 hours
Touch-proof	IP2XB
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS & REACH	
MATERIAL	
Housing	Metal

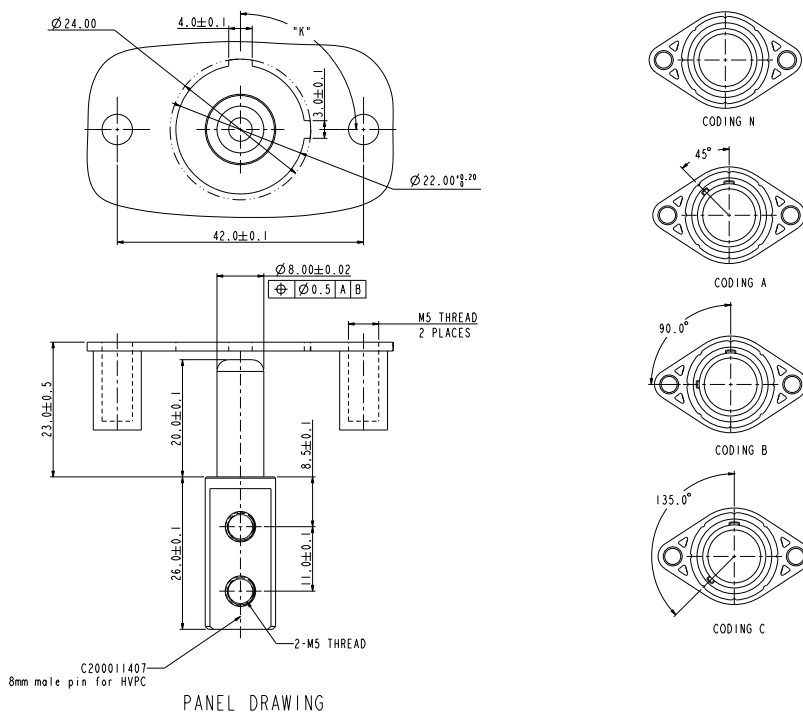
## HVPC 1 POSITION PASS-THROUGH



## HVPC 1 POSITION RIGHT-ANGLE



## PANEL MOUNTING DIMENSIONS



PANEL DRAWING

## HOW TO ORDER

	HVPC	7	R8	1	A	35
<b>Product type:</b>						
<b>7:</b> Straight						
<b>9:</b> Right angle						
<b>Insert size:</b>						
<b>R8:</b> 8mm pin contact						
<b>Position:</b>						
<b>1:</b> 1 position						
<b>Coding:</b>						
<b>A:</b> Coding A						
<b>B:</b> Coding B						
<b>C:</b> Coding C						
<b>D:</b> Coding D (Right-Angle only)						
<b>E:</b> Coding E (Right-Angle only)						
<b>N:</b> Coding N (Straight only)						
<b>Wire type:</b>						
<b>35:</b> 35mm <sup>2</sup> shielded wire						
<b>50:</b> 50mm <sup>2</sup> shielded wire						

# Excel|Mate PT (HVPT M)

## HVPT M



### KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

Multiple coding positions

360° shielded from wire to device

Economical

### MECHANICAL

Wire range	70 to 150 mm <sup>2</sup> shielded wire
------------	---

Connection type	Crimp
-----------------	-------

### ELECTRICAL

Voltage rating (cable)	1000V DC
------------------------	----------

Insulator resistance	> 200MΩ
----------------------	---------

Shielding	360° from wire to device
-----------	--------------------------

### ENVIRONMENTAL

Sealing	IP67, IP6K9K (mated)
---------	----------------------

Temperature range	-40°C to 125°C
-------------------	----------------

Salt spray	500 hours
------------	-----------

### STANDARDS

USCAR-2	
---------	--

USCAR-37	
----------	--

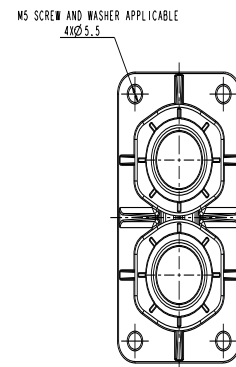
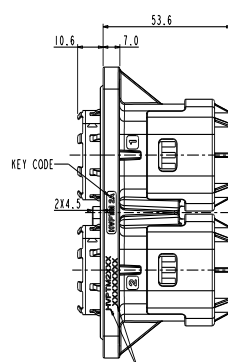
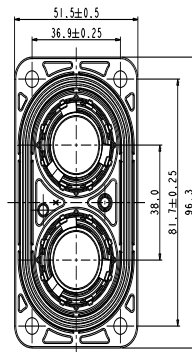
LV-216-2	
----------	--

RoHS & REACH	
--------------	--

### MATERIAL

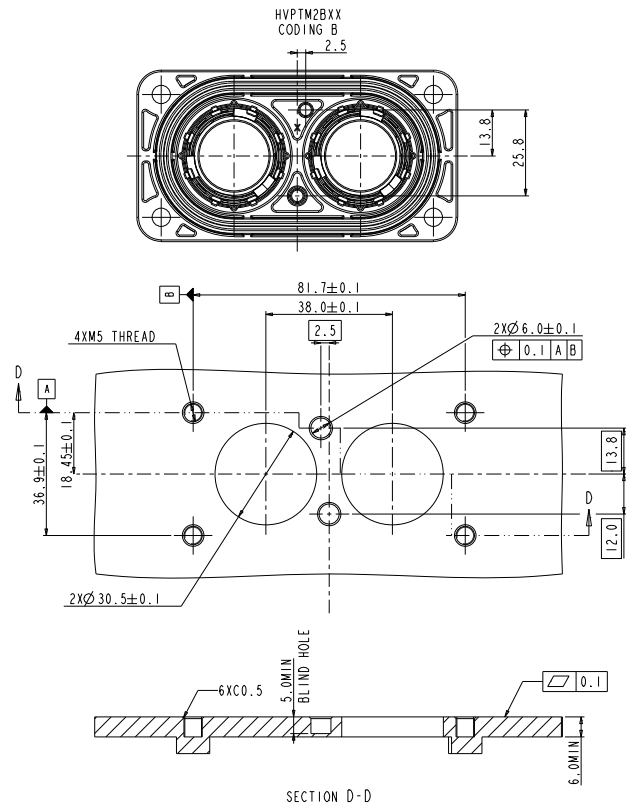
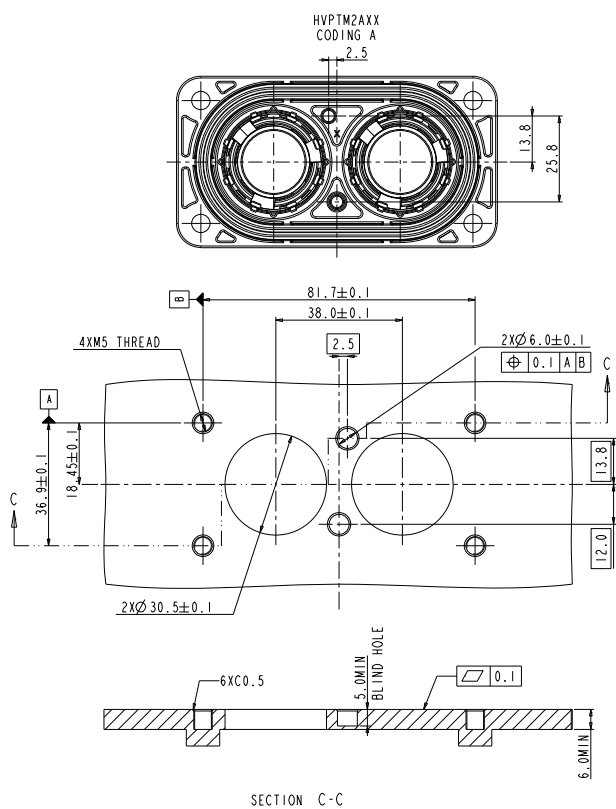
Housing	Metal
---------	-------

## HVPT M 2-PIN

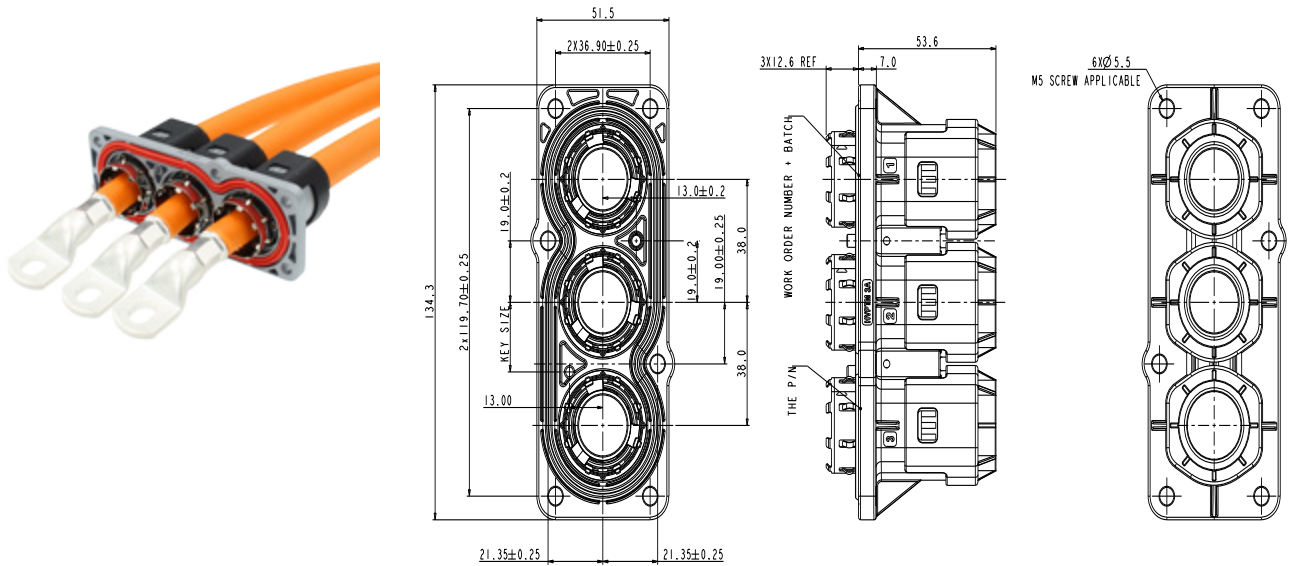


PRINTING CONTENT:  
THE FIRST ROW IS P/N (PRINT THE FULL CODE)  
THE SECOND ROW IS WORK ORDER NUMBER + BATCH

## PANEL MOUNTING DIMENSION

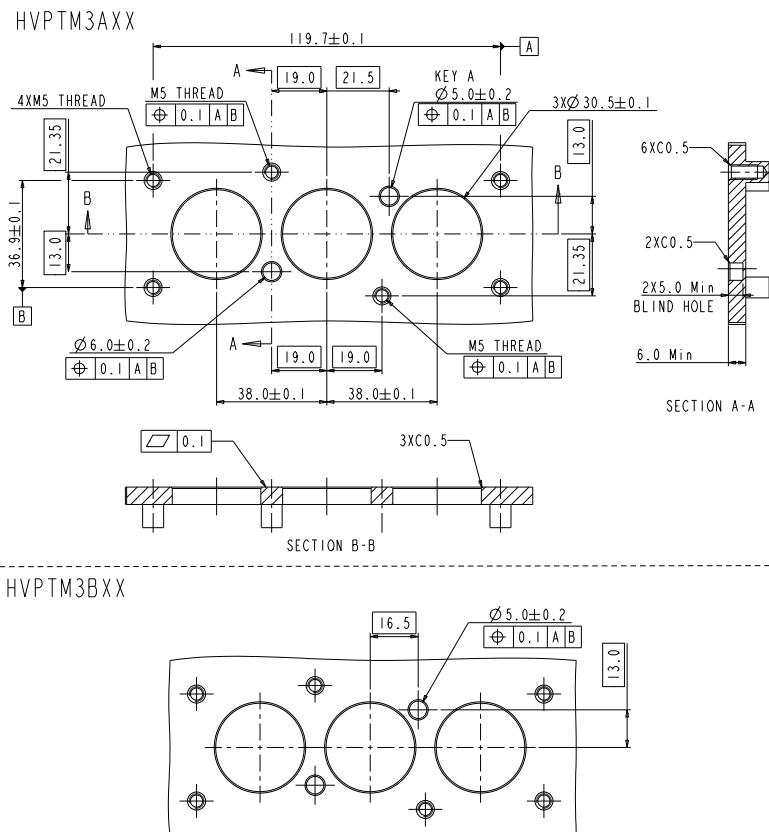


## HVPT M 3-PIN



## PANEL MOUNTING DIMENSION

### MOUNTING PANEL RECOMMENDATION



HOW TO ORDER: PLUG

	HVPT M	2	A	01
<b>Position:</b>				
<b>2:</b>	2 positions			
<b>3:</b>	3 positions			
<b>Coding:</b>				
<b>A:</b>	Coding A			
<b>B:</b>	Coding B			
<b>Wire type:</b>				
<b>01:</b>	95mm <sup>2</sup> shielded wire			
<b>02:</b>	120mm <sup>2</sup> shielded wire			
<b>03:</b>	70mm <sup>2</sup> shielded wire			
<b>04:</b>	150mm <sup>2</sup> shielded wire			

# Excel|Mate PT (HVPT BM)

## HVPT BM



### KEY FEATURES

Easy to install, reliable connection

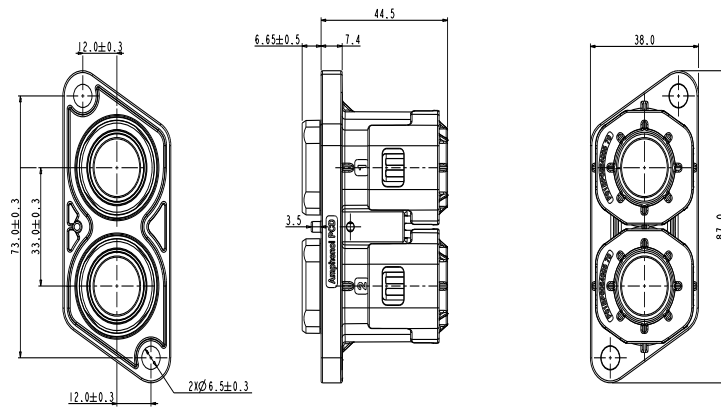
Sealing, IP67, IP6K9K (mated)  
Multiple coding positions

360° shielded from wire to device

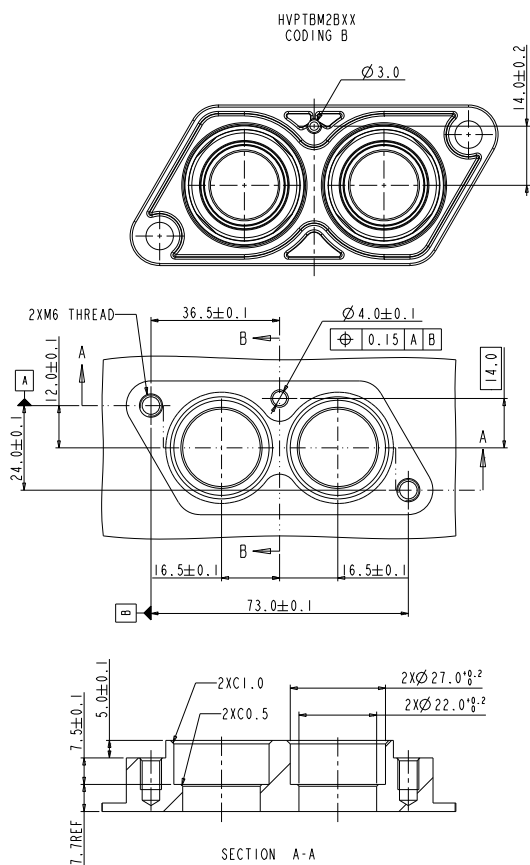
Economical

MECHANICAL	
Wire range	16 to 70 mm <sup>2</sup> shielded wire
Connection type	Crimp
ELECTRICAL	
Voltage rating (cable)	1000V DC
Insulator resistance	> 200MΩ
Shielding	360° from wire to device
ENVIRONMENTAL	
Sealing	IP67, IP6K9K (mated)
Temperature range	-40°C to 125°C
Salt spray	500 hours
STANDARDS	
USCAR-2	
USCAR-37	
LV-216-2	
RoHS & REACH	
MATERIAL	
Housing	Metal

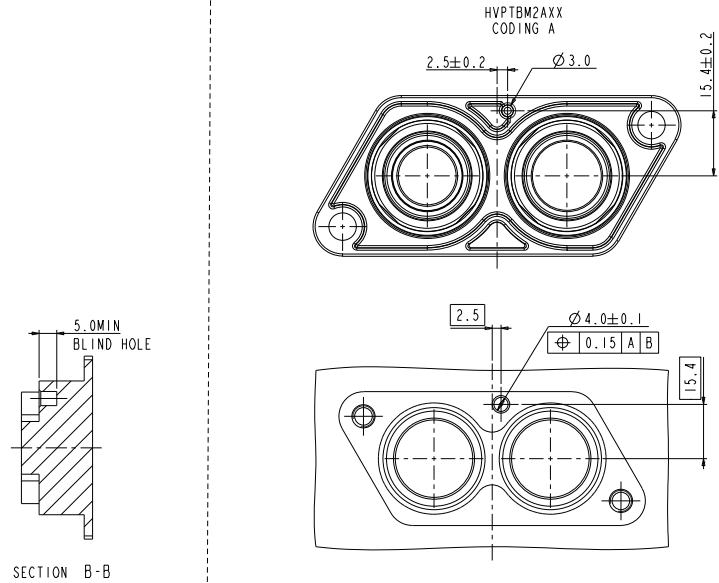
## HVPT M 2-PIN



## PANEL MOUNTING DIMENSION



MOUNTING PANEL RECOMMENDED DIMENSIONS

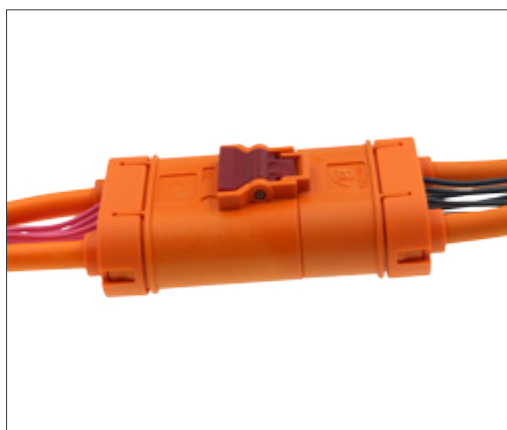


MOUNTING PANEL RECOMMENDED DIMENSIONS

HOW TO ORDER: PLUG

HVPT BM	2	A	01
<b>Position:</b> 2: 2 positions			
<b>Coding:</b> A: Coding A B: Coding B			
<b>Wire type:</b> 01: 16mm <sup>2</sup> shielded wire 02: 25mm <sup>2</sup> shielded wire 03: 35mm <sup>2</sup> shielded wire 04: 50mm <sup>2</sup> shielded wire 05: 70mm <sup>2</sup> shielded wire			

## AUTOLOCK



### KEY FEATURES

Easy to install, reliable connection

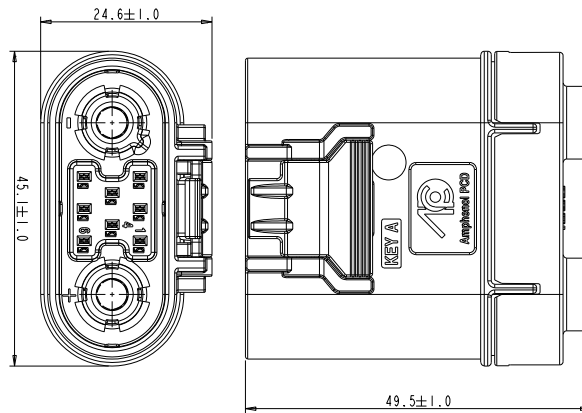
Sealing, IP67  
Multiple coding positions

Economical

MECHANICAL	
Wire range	6 to 16 mm <sup>2</sup> shielded wire & unshielded wire
Connection type	Crimp
ELECTRICAL	
Rated voltage	1000V DC 600V AC
Rated current	80A Max @ ambient temperature 70°C
Insulator resistance	> 200MΩ
Dielectric withstand voltage	4800V DC 3000V AC
ENVIRONMENTAL	
Sealing	IP67
Temperature range	-40°C to 105°C
STANDARDS	
USCAR-2	
USCAR-37	
ISO19642-5	
RoHS & REACH	

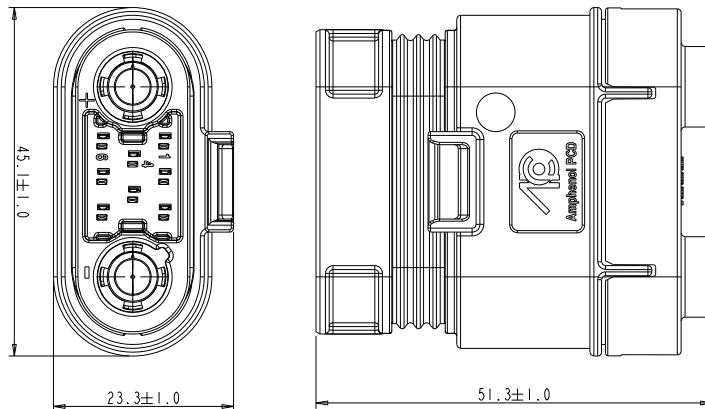
# Wire-to-Wire (AUTOLOCK)

## Plug: wire-to-wire



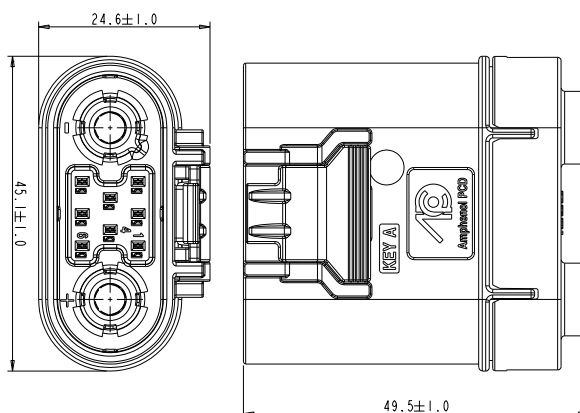
AL4000	62	XX	X	XX
Product type: Plug (180)		Signal Pin: 04: 4 PIN 05: 5 PIN 06: 6 PIN 07: 7 PIN 08: 8 PIN	Coding: A: KEY A B: KEY B	Wire Specification: 06: 6mm <sup>2</sup> 10: 10mm <sup>2</sup> 16: 16mm <sup>2</sup>

## Receptacle: wire-to-wire



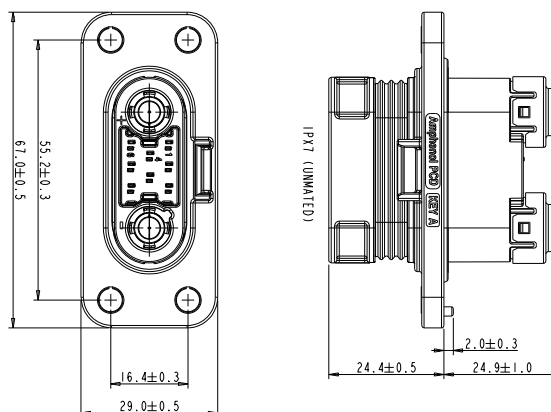
AL4000	22	L	XX	XX
Product type: Socket		Mounting: L: Inline	Signal Pin: 04: 4 PIN 05: 5 PIN 06: 6 PIN 07: 7 PIN 08: 8 PIN	Wire Specification: 06: 6mm <sup>2</sup> 10: 10mm <sup>2</sup> 16: 16mm <sup>2</sup>

## Plug: wire-to-board



AL4000	62	XX	X	XX
Product type:	Plug (180)	Signal Pin:	Coding:	Wire Specification:
		04: 4 PIN	A: KEY A	06: 6mm <sup>2</sup>
		05: 5 PIN	B: KEY B	10: 10mm <sup>2</sup>
		06: 6 PIN		16: 16mm <sup>2</sup>
		07: 7 PIN		
		08: 8 PIN		

## Receptacle: wire-to-board



AL4000	22	F	XX	X	XX	X	X
Product type:	Receptacle	Mounting:	Signal Pin:	Coding:	Wire Specification:	IP Rate:	Protection Cap:
		F: Front Mounting	04: 4 PIN	A: KEY A	06: 6mm <sup>2</sup>	0: None	0: Without
			05: 5 PIN	B: KEY B	10: 10mm <sup>2</sup>	1: IPX7 (unmated)	1: With
			06: 6 PIN		16: 16mm <sup>2</sup>		
			07: 7 PIN				
			08: 8 PIN				



## Amphenol PCD Shenzhen

Building C  
Da Gang Industrial Zone, Yu Tang Street  
Guang Ming District Shenzhen 518132  
China

Tel.: +86 755-8173-8000  
Email: [inquiry@amphenolpcd.com.cn](mailto:inquiry@amphenolpcd.com.cn)

[www.amphenolpcd.com.cn](http://www.amphenolpcd.com.cn)



### Notes:

Amphenol PCD Shenzhen has made every effort to ensure that the information contained in this catalog is accurate at the time of publication. Specifications or information stated in this publication are subject to change without notice.

Amphenol PCD Shenzhen reserves the right to clarify this catalog.