



# EXCEL | MATE

## High Voltage Safety Lock

|                                              |    |                                                     |     |
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## PRODUCT INTRODUCTION



When high-performance and increased safety are required in xEV, Amphenol PCD's **Excel|Mate** connectors fulfil the challenge.

HVSL Series is designed to meet AK standards for various xEV applications, including power and signal interconnect solutions. Different versions are available, from 1 position to 4 positions and a rated current from 23A to 350A.

| Product                    | HVSL1200     | HVSL1000     | HVSL800      | HVSL800      | HVSL600      | HVSL600      | HVSL630   | HVSL633      | HVSL280   | HVSL282      | HVSL362      | HVSL364      |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|--------------|-----------|--------------|--------------|--------------|
| Position                   | 2            | 1, 2, 3      | 2, 3         | 2            | 2, 3         | 1            | 2         | 3            | 3         | 2            | 2            | 4            |
| Rated Voltage              | 1000V        | 1000V        | 1000V        | 1000V        | 1000V        | 800V         | 800V      | 800V         | 800V      | 800V         | 800V         | 800V         |
| Rated Current              | 350A         | 250A         | 180A         | 180A         | 120A         | 120A         | 40A       | 40A          | 23A       | 32A          | 60A          | 46A          |
| HVIL                       | √            | √            | √            | √            | √            | √            | √         | √            | √         | √            | √            | √            |
| Shielding                  | √            | √            | √            | √            | √            | √            | √         | √            | √         | √            | √            | √            |
| Shell                      | Plastic      | Plastic      | Plastic      | Metal        | Metal        | Plastic      | Plastic   | Plastic      | Plastic   | Plastic      | Plastic      | Plastic      |
| IP67,IP6K9K                | √            | √            | √            | √            | √            | √            | √         | √            | √         | √            | √            | √            |
| Touch-Proof IP2XB          | √            | √            | √            | √            | √            | √            | √         | √            | √         | √            | √            | √            |
| Cable size mm <sup>2</sup> | 70 to 95     | 25 to 70     | 25 to 50     | 25 to 50     | 16 to 25     | 25           | 4 to 6    | 2.5 to 6     | 2.5 to 4  | 2.5 to 4     | 6 to 10      | 2.5 to 6     |
| Cable type shielded wire   | Individually | Individually | Individually | Individually | Individually | Individually | Multicore | Individually | Multicore | Individually | Individually | Individually |

## 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 xEV 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

Shielding performance: EMI/RFI 60DB

Sealing, IP67 (mated), IP6K9K

Touch-proof, IP2XB

Multiple coding positions

### APPLICATIONS

xEV 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

Inflammability UL94V0

### STANDARDS

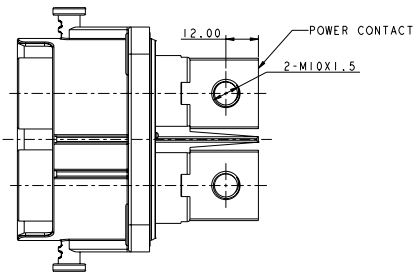
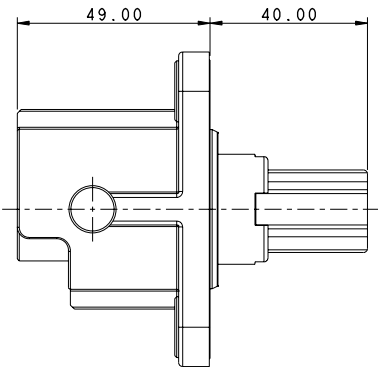
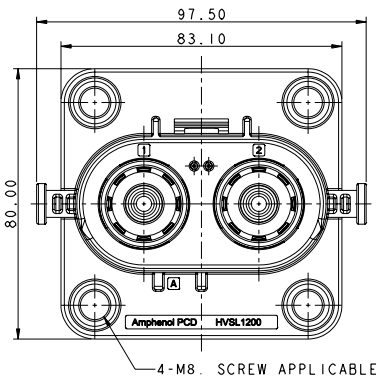
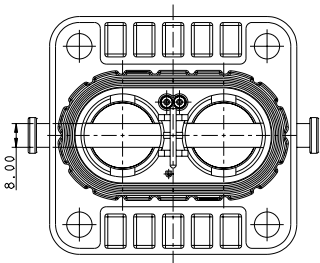
USCAR-2

USCAR37

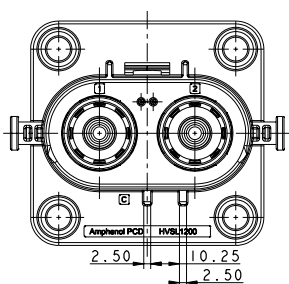
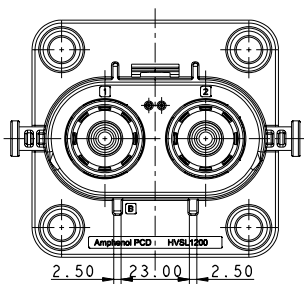
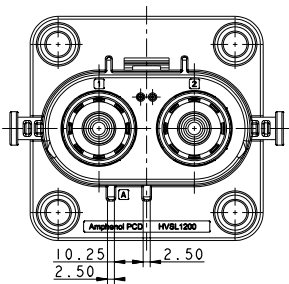
LV-215

RoHS

2 PIN RECEPTACLE BOX MOUNTED

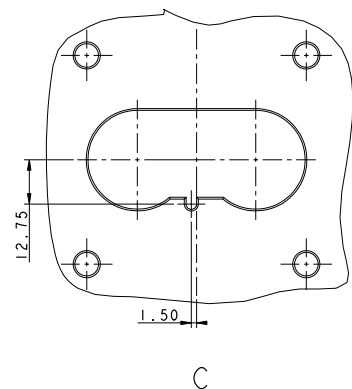
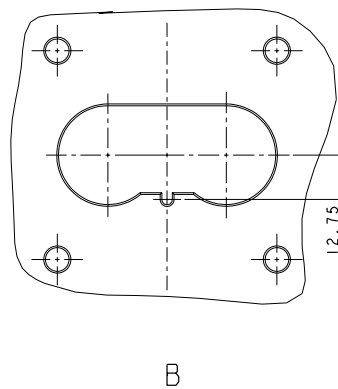
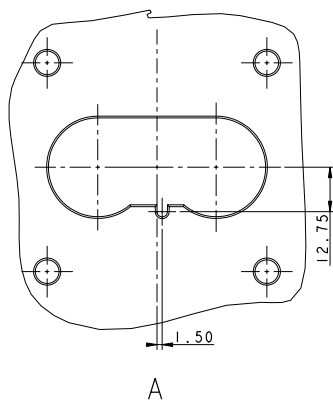
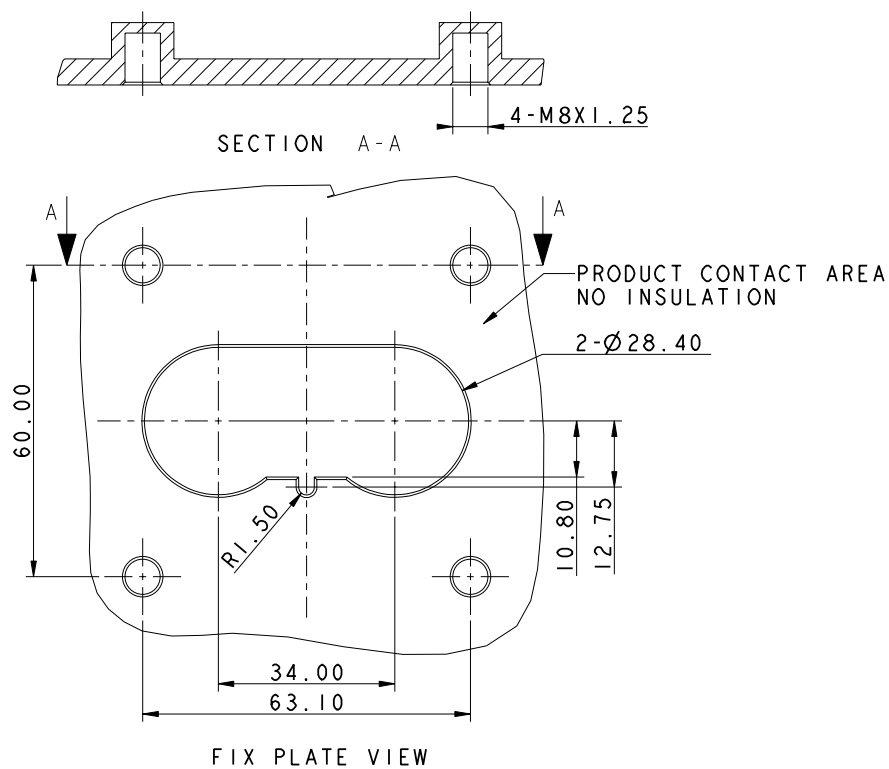


INSERT ORIENTATIONS



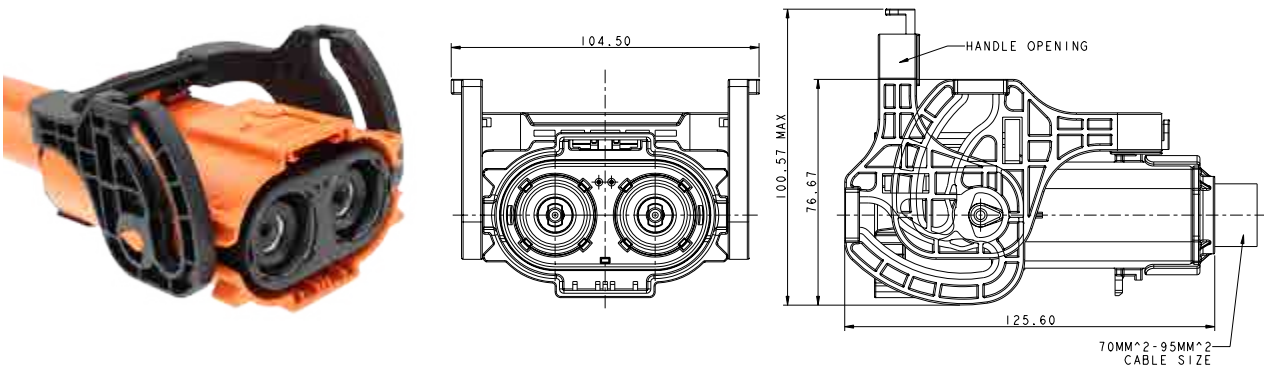
|     | A               | B               | C               |
|-----|-----------------|-----------------|-----------------|
| P/N | HVSL1200 02 2 A | HVSL1200 02 2 B | HVSL1200 02 2 C |

PANEL MOUNTING DIMENSIONS

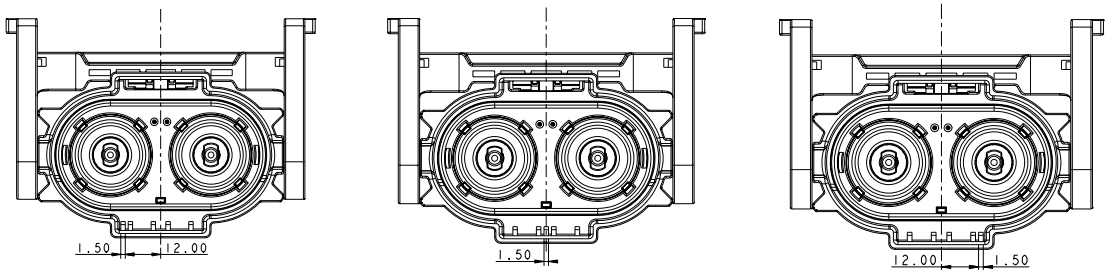


# ExcelMate Max (HVSL 1200)

## 2 PIN PLUG

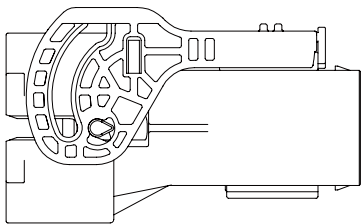


## INSERT ORIENTATIONS

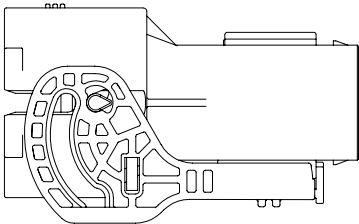


|     | A               | B               | C               |
|-----|-----------------|-----------------|-----------------|
| P/N | HVSL1200 06 2 A | HVSL1200 06 2 B | HVSL1200 06 2 C |

## LEVER POSITION

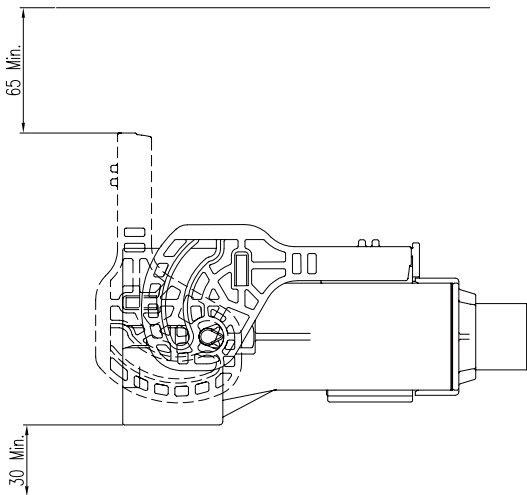


STANDARD LEVER



REVERSE LEVER

## INSTALLATION CLEARANCE





## 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

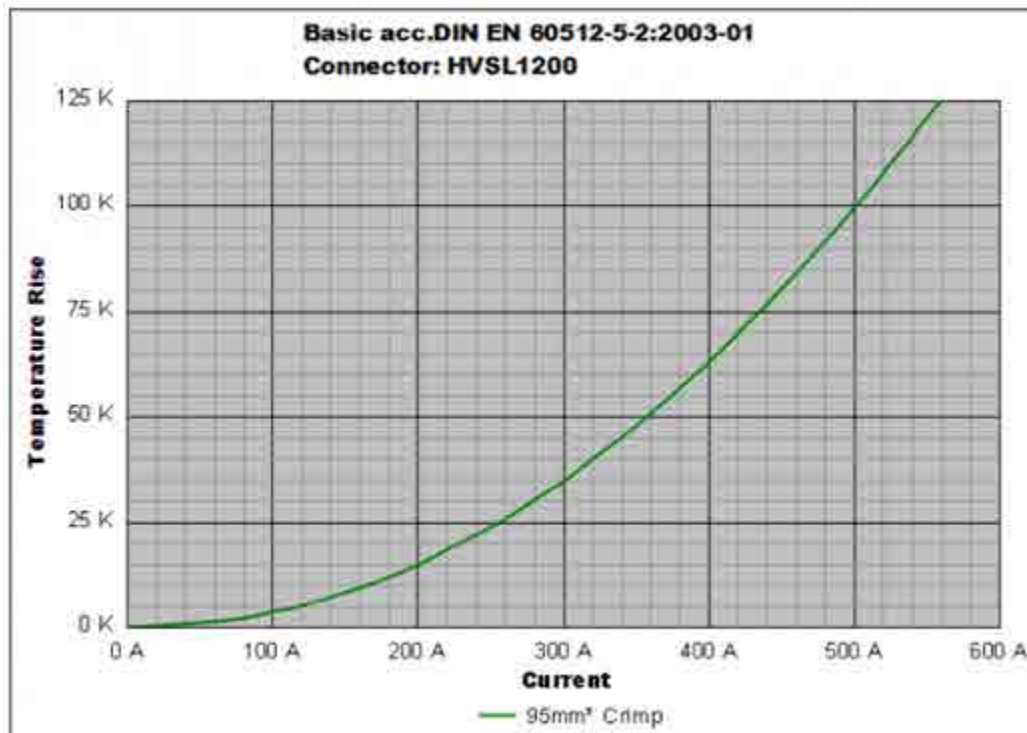
|                                     |          |    |   |   |   |     |
|-------------------------------------|----------|----|---|---|---|-----|
|                                     | HVSL1200 | 02 | 2 | A | 0 | H10 |
| <b>Product type:</b>                |          |    |   |   |   |     |
| 02: 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

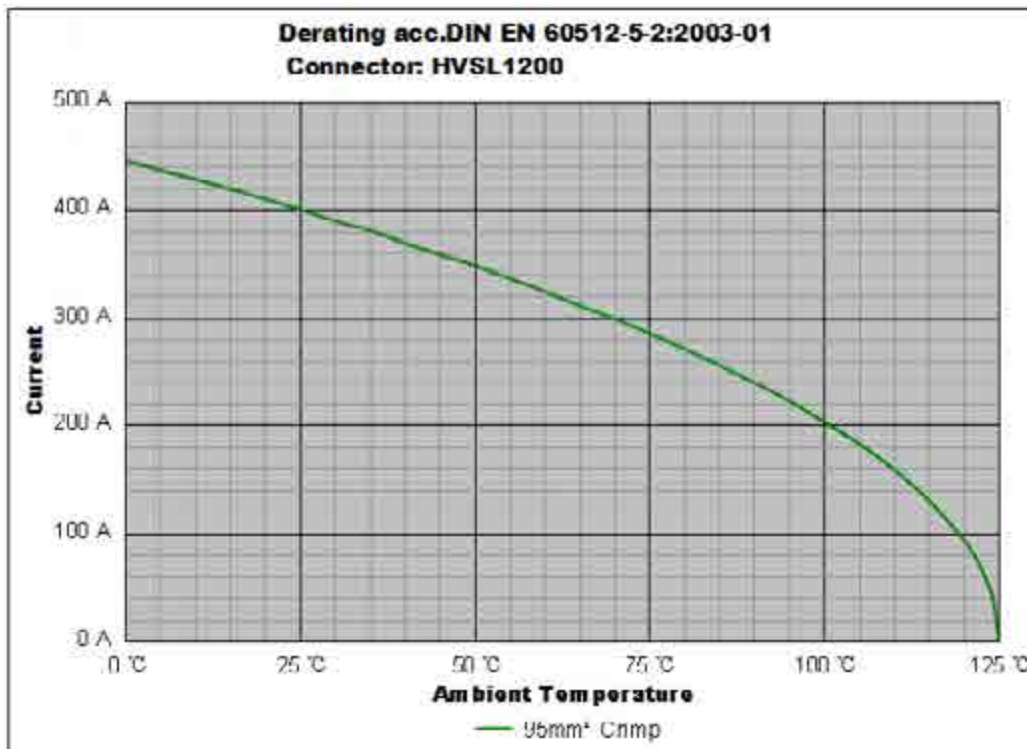
HVIL-contact Extraction tool: HVTOOL10R



## HVSL 1200 | Temperature Rise



## HVSL 1200 | Derating Curve



Remark: tests carried out on the complete connector.

# Excel|Mate Plus (HVSL 1000)

## 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 xEV applications.

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

### KEY FEATURES

With interlock solution

RADSOK® Technology R4 version  
10mm

Shielding performance: EMI/RFI 60DB

AK compliance LV215

Sealing, IP67 (mated), IP6K9K

1 to 3 positions available

Touch-proof, IP2XB

Multiple coding positions

### APPLICATIONS

xEV 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  $> 200\text{M}\Omega$

Dielectric withstand  
voltage 3000V AC

### ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

Inflammability UL94V0

### STANDARDS

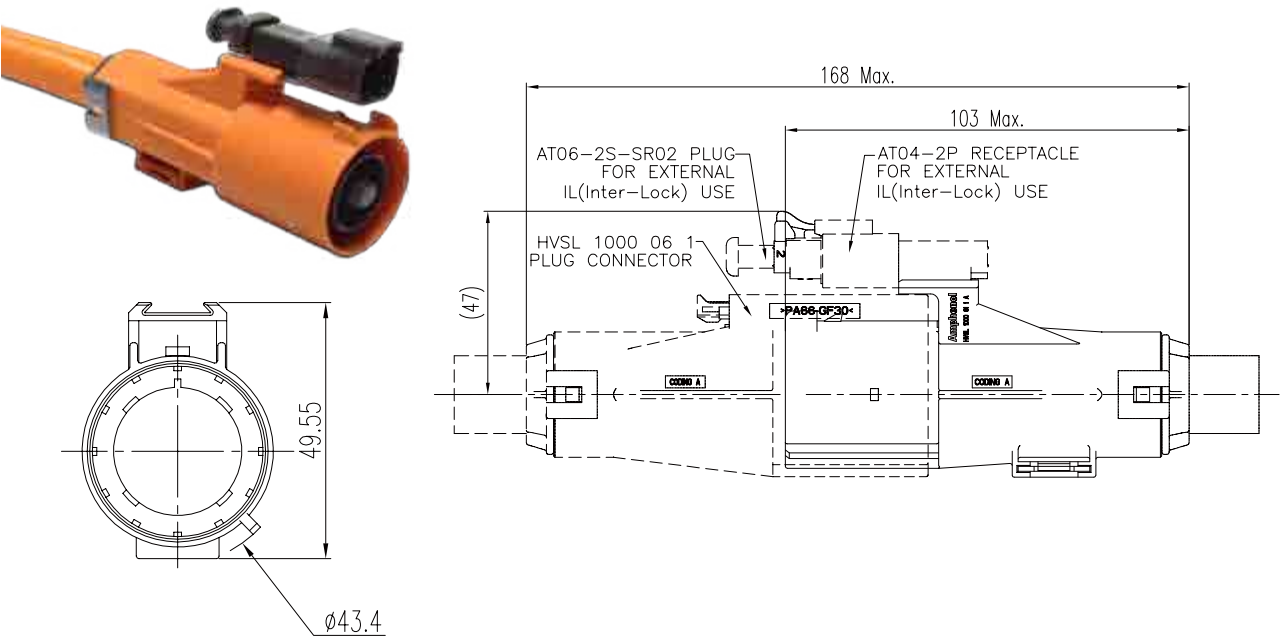
USCAR-2

USCAR-37

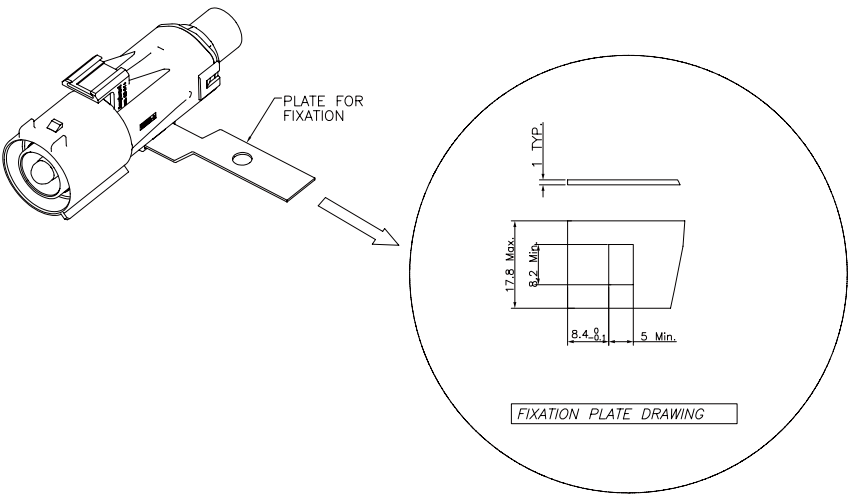
LV-215

RoHS

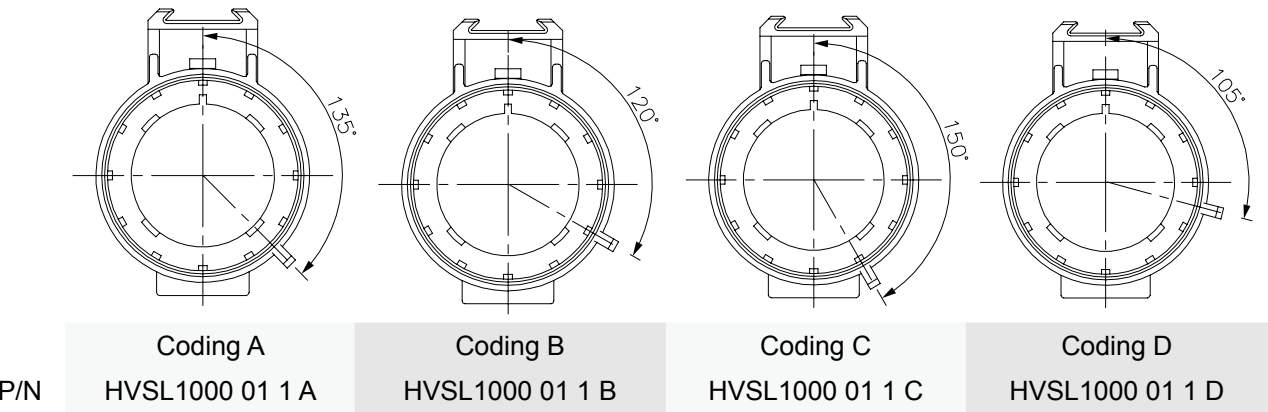
RECEPTACLE IN-LINE



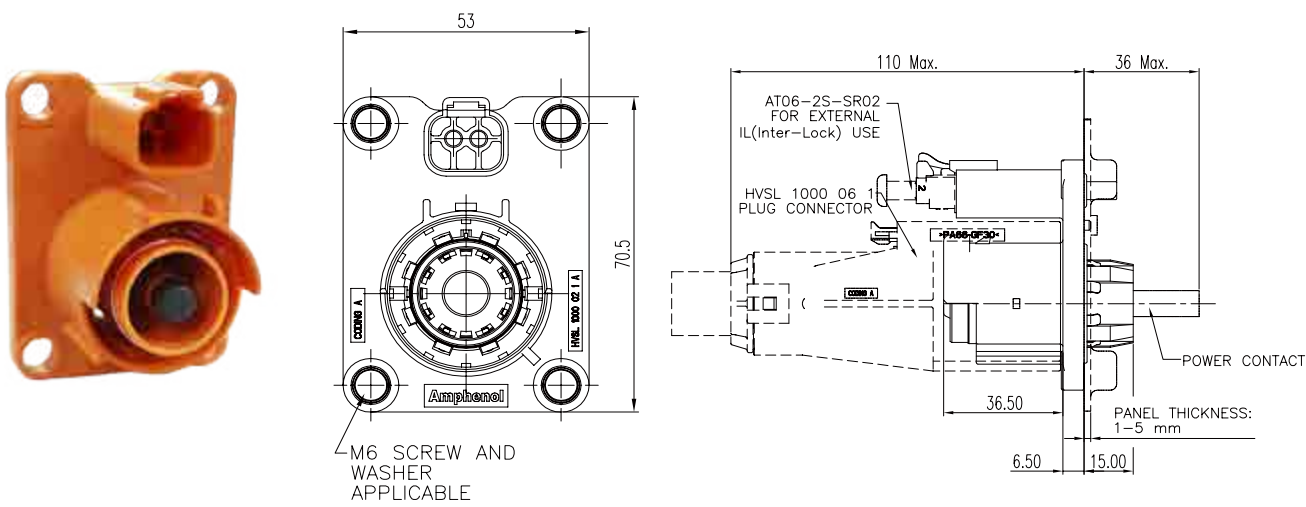
MOUNTED GROOVE



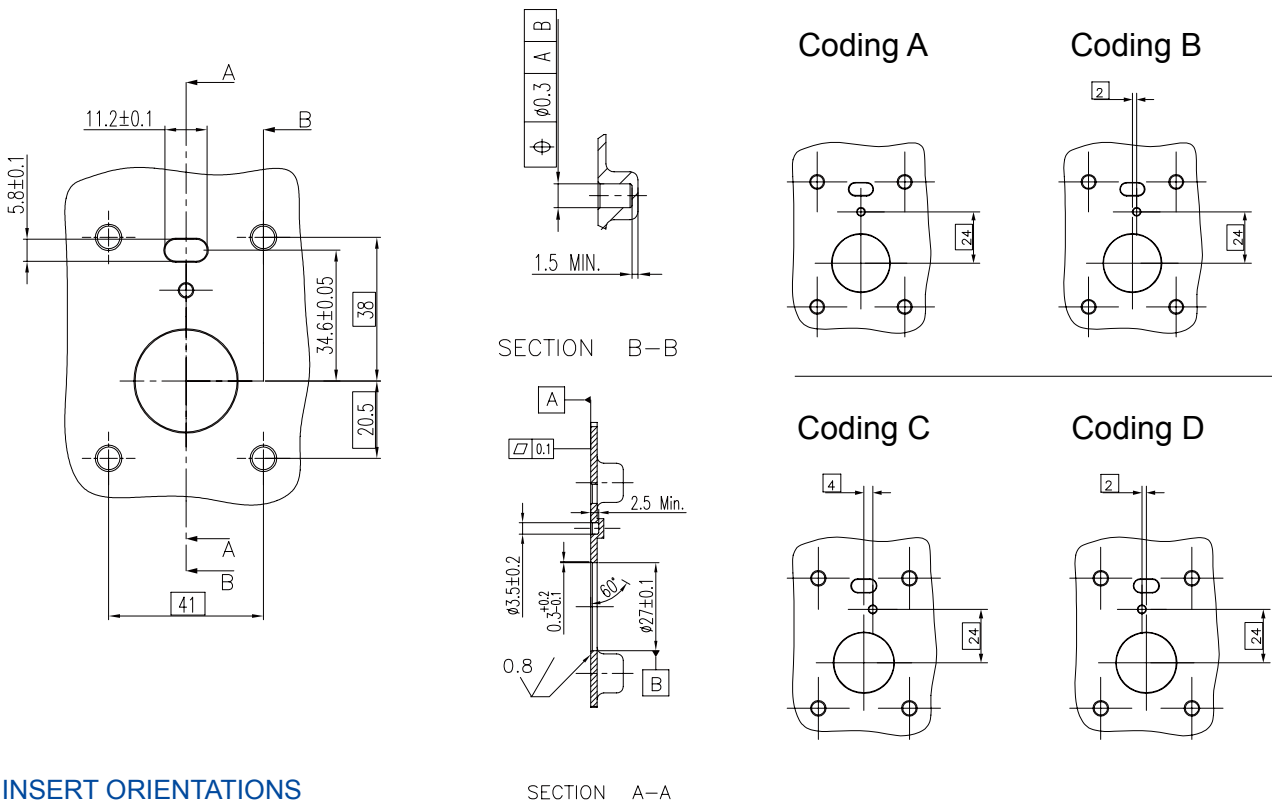
INSERT ORIENTATIONS



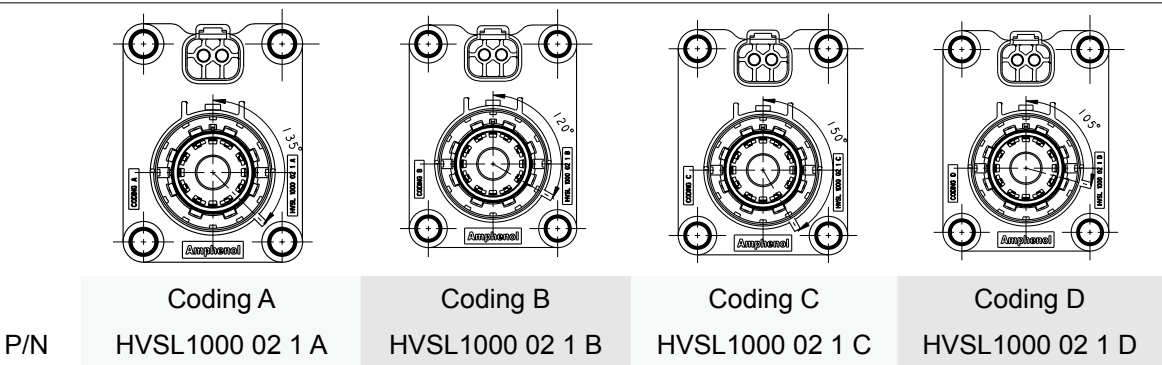
RECEPTACLE BOX MOUNTED



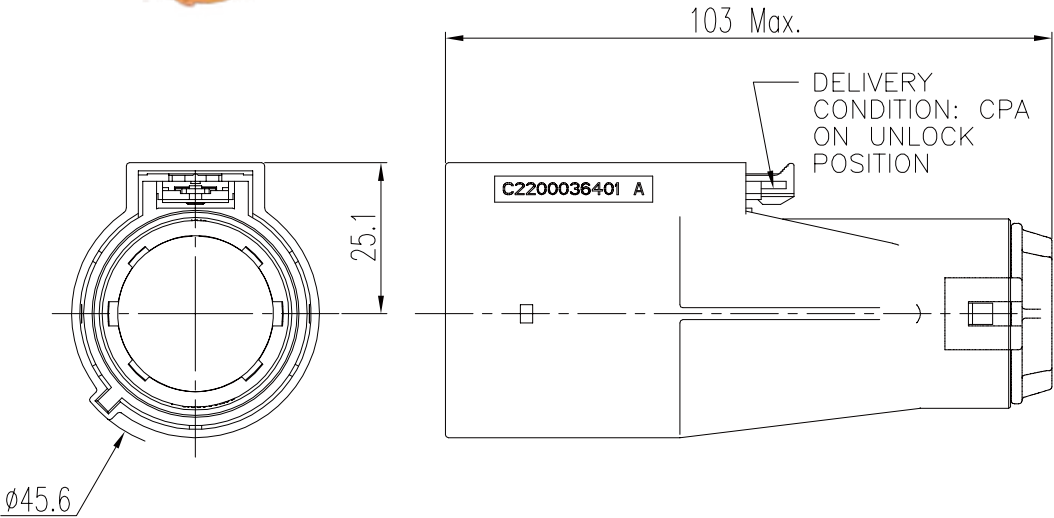
PANEL MOUNTING DIMENSIONS



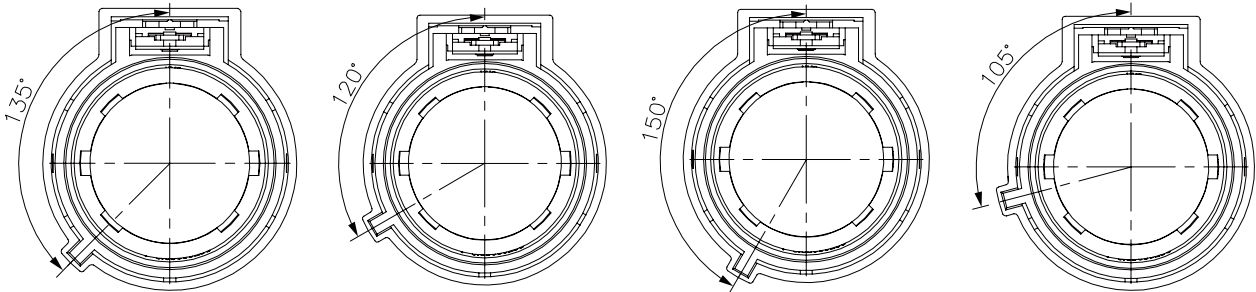
INSERT ORIENTATIONS



PLUG

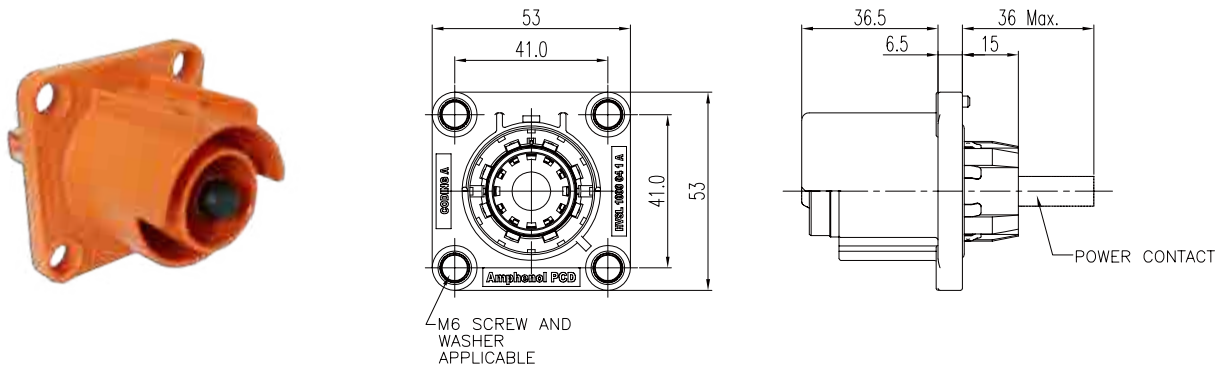


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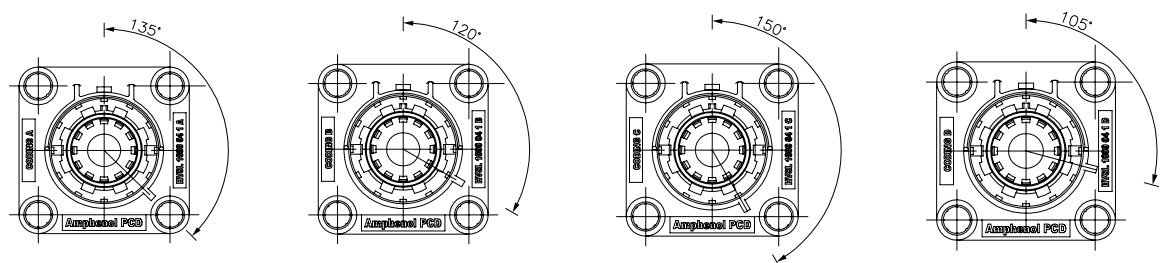


|     | Coding A        | Coding B        | Coding C        | Coding D        |
|-----|-----------------|-----------------|-----------------|-----------------|
| P/N | HVSL1000 06 1 A | HVSL1000 06 1 B | HVSL1000 06 1 C | HVSL1000 06 1 D |

RECEPTACLE BOX MOUNTED **WITHOUT INTERLOCK**

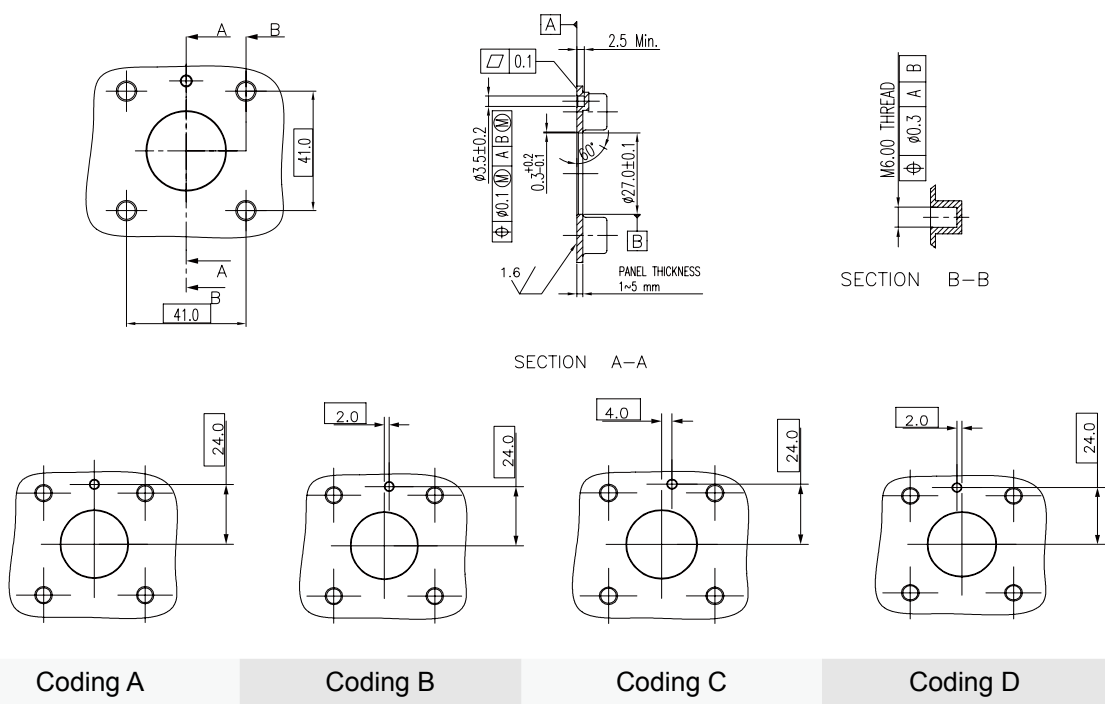


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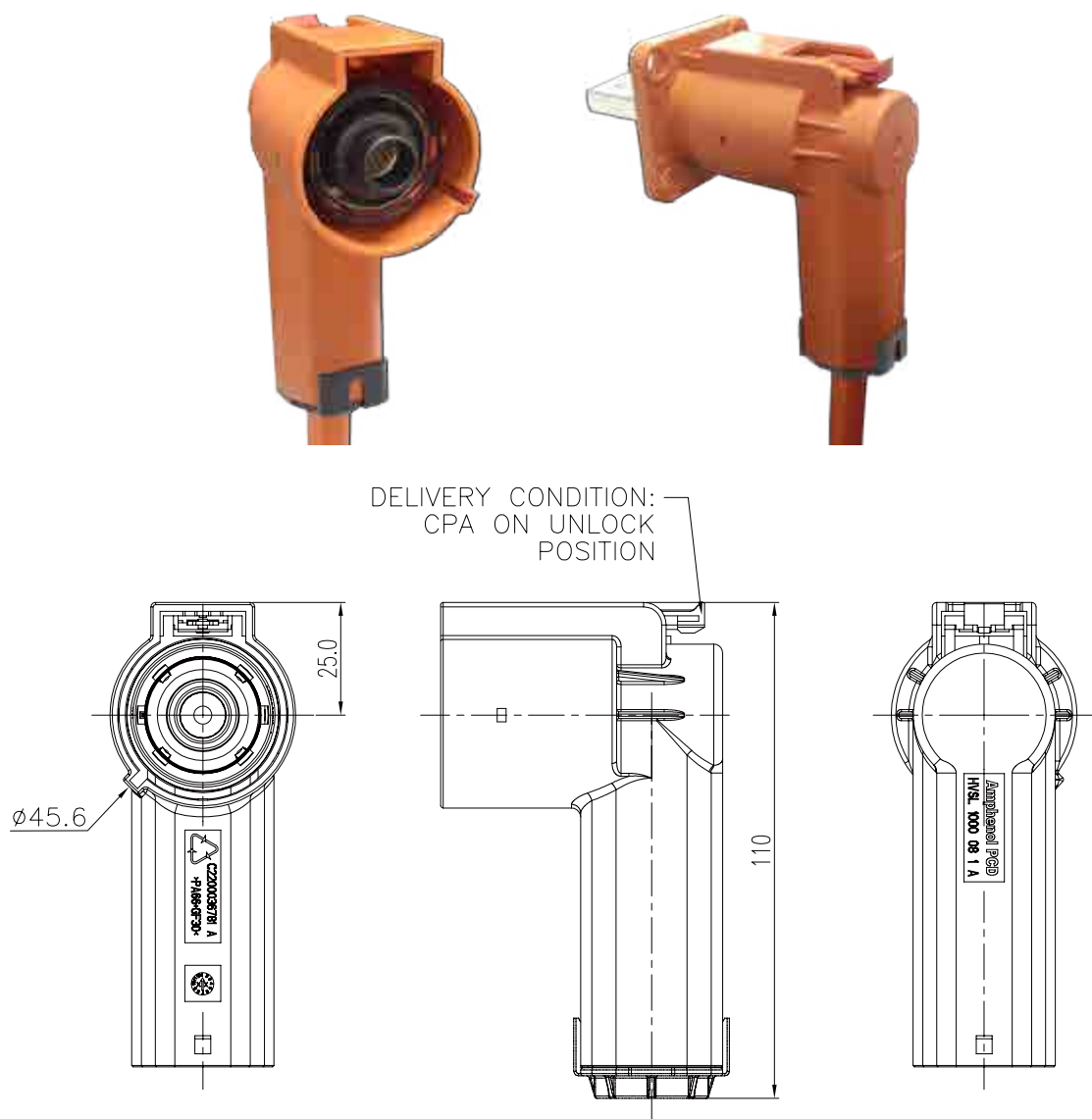


|     | Coding A        | Coding B        | Coding C        | Coding D        |
|-----|-----------------|-----------------|-----------------|-----------------|
| P/N | HVSL1000 04 1 A | HVSL1000 04 1 B | HVSL1000 04 1 C | HVSL1000 04 1 D |

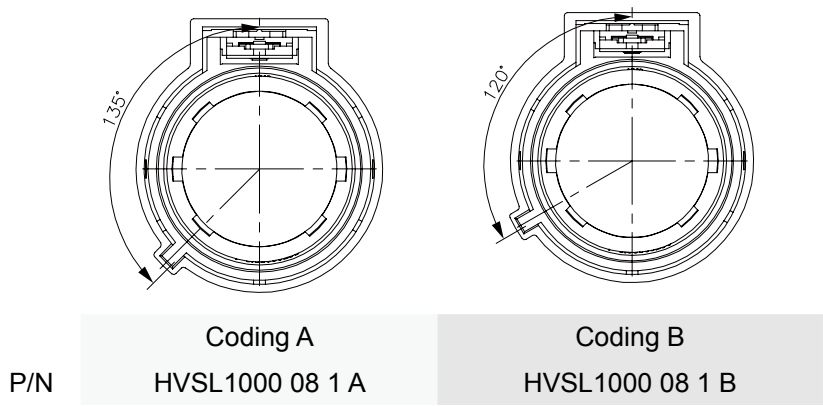
PANEL MOUNTING DIMENSIONS



PLUG RIGHT ANGLE

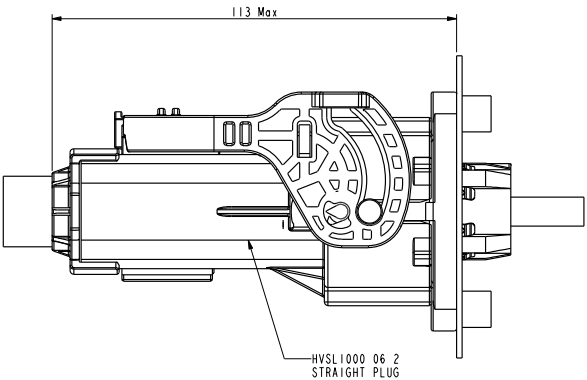


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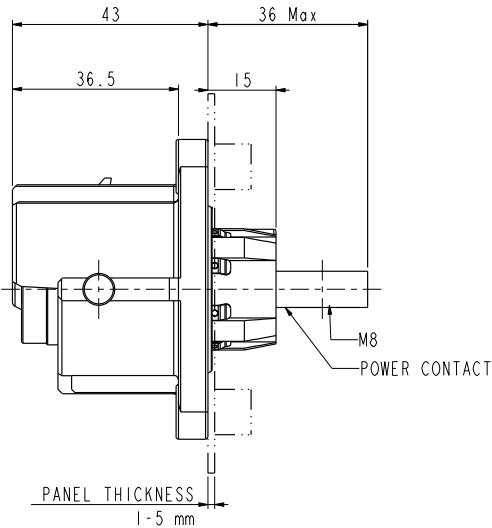
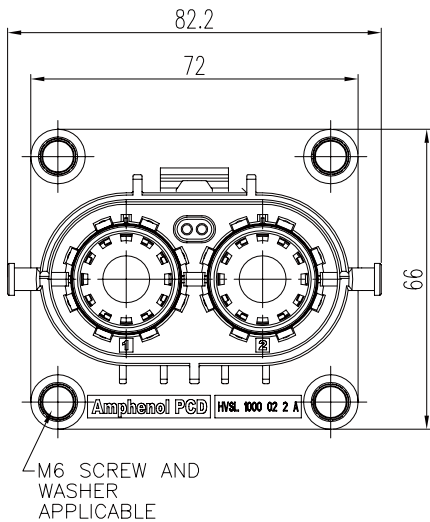


Excel|Mate Plus  
(HVSL 1000)

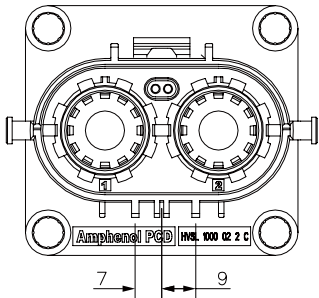
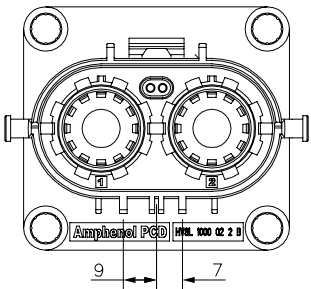
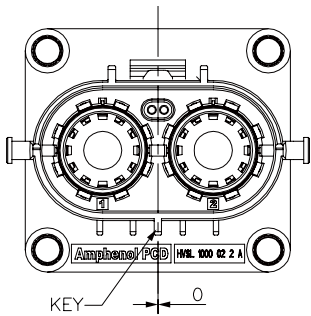
2 PIN RECEPTACLE BOX MOUNTED



CONNECTOR MATED OUTLINE



INSERT ORIENTATIONS

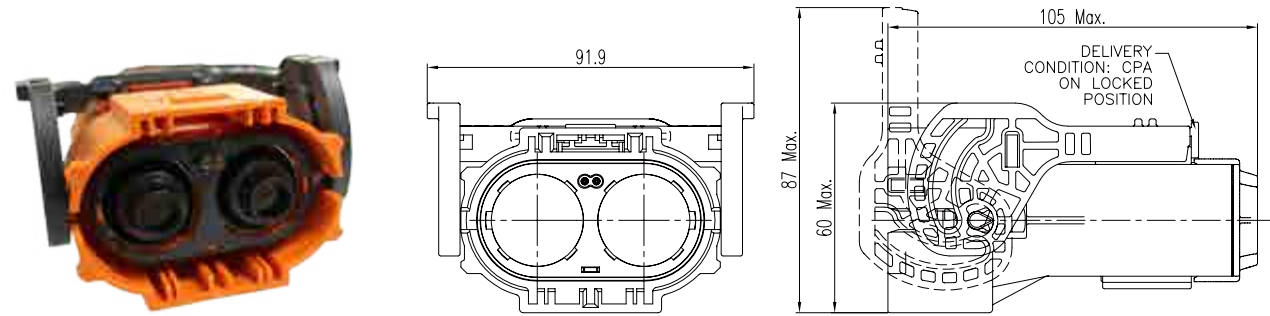


|     | Coding A        | Coding B        | Coding C        |
|-----|-----------------|-----------------|-----------------|
| P/N | HVSL1000 02 2 A | HVSL1000 02 2 B | HVSL1000 02 2 C |

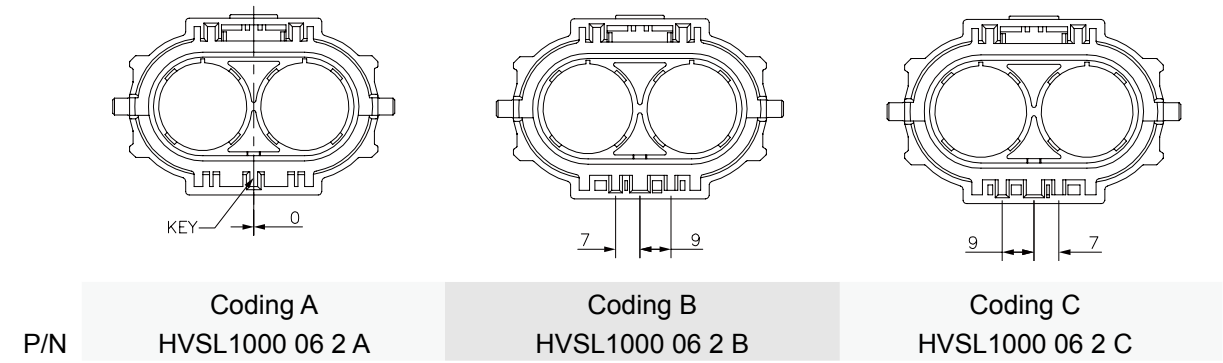


ExcelMate Plus  
(HVSL 1000)

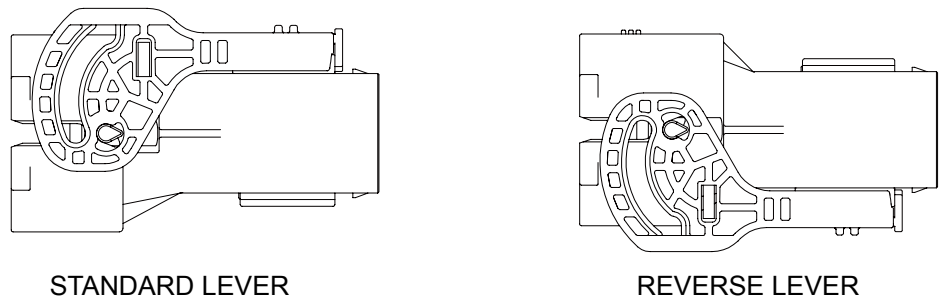
2 PIN PLUG



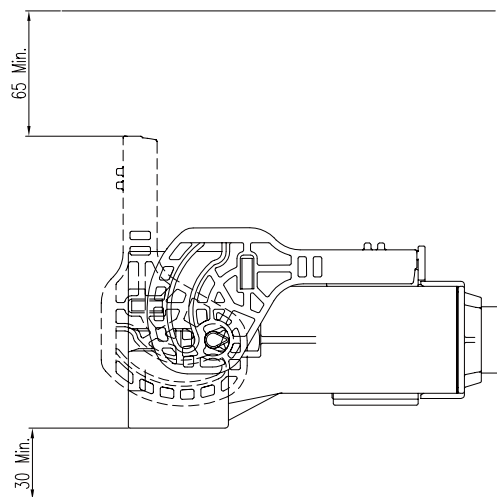
INSERT ORIENTATIONS



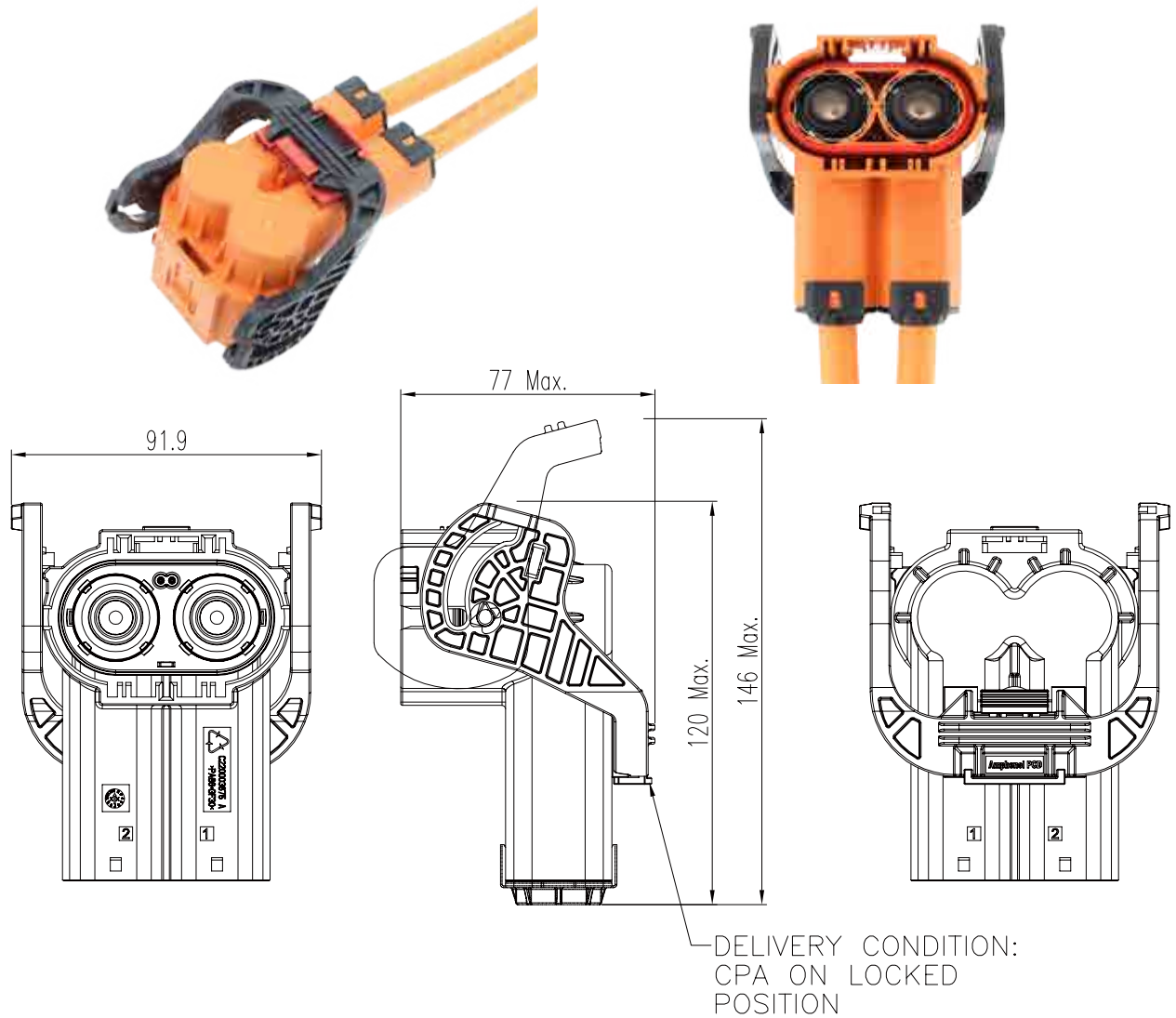
LEVER POSITION



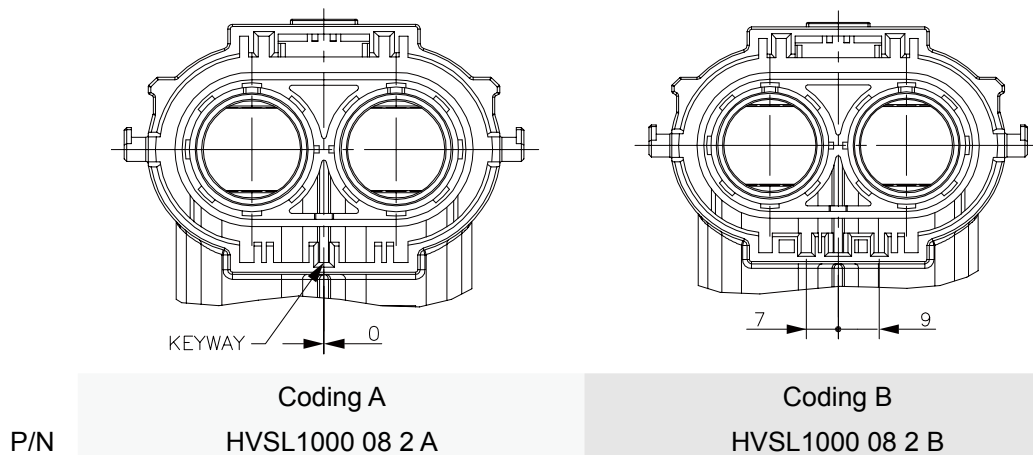
INSTALLATION CLEARANCE



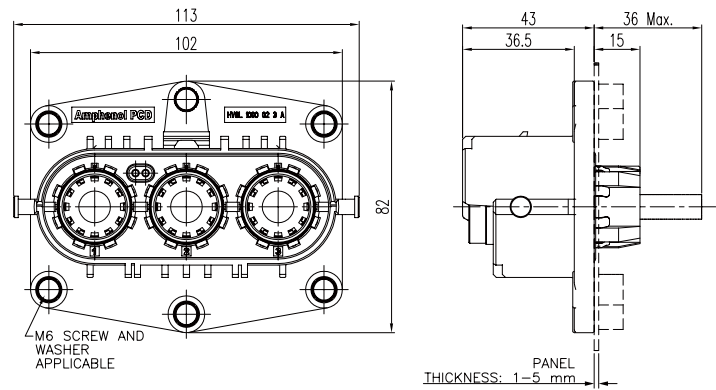
## 2 PIN PLUG RIGHT ANGLE



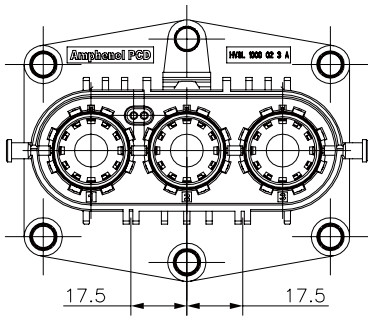
## INSERT ORIENTATIONS



3 PIN RECEPTACLE BOX MOUNTED

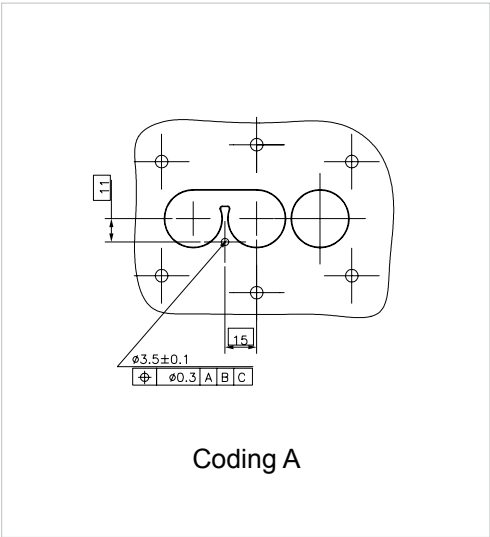
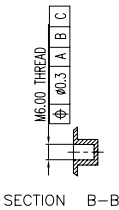
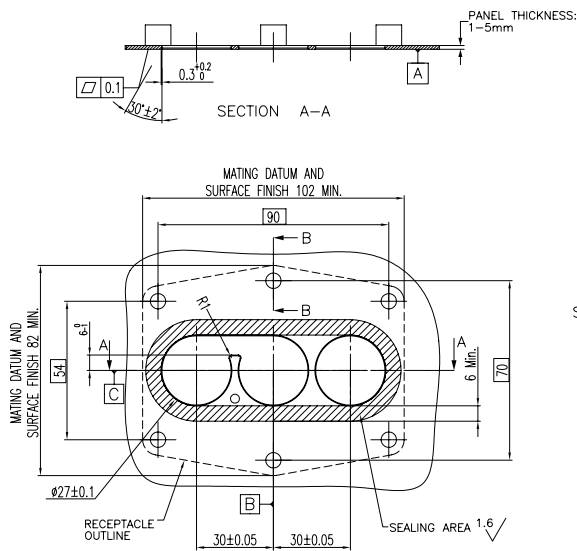


INSERT ORIENTATIONS



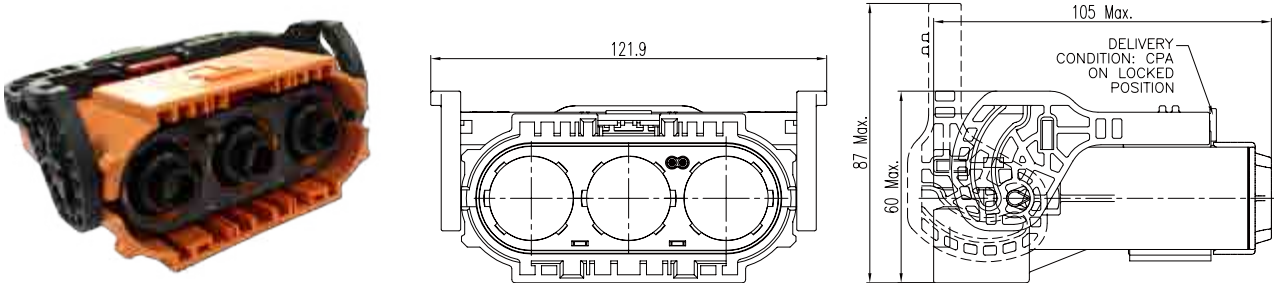
Coding A  
P/N HVSL1000 02 3 A

PANEL MOUNTING DIMENSIONS

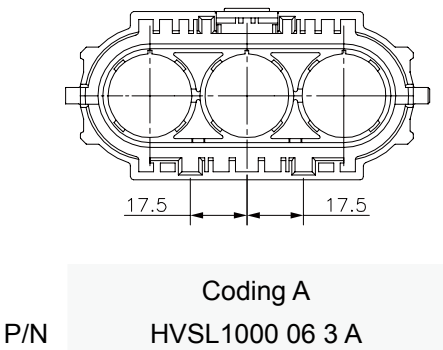


Coding A

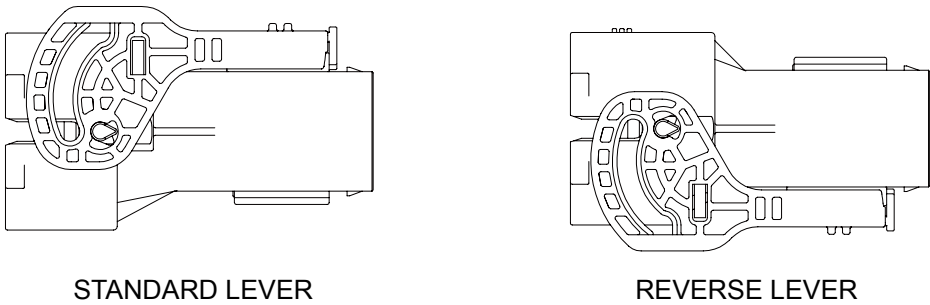
3 PIN PLUG



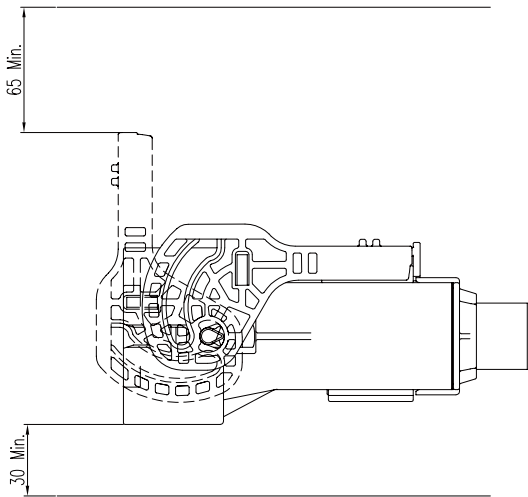
INSERT ORIENTATIONS



LEVER POSITION

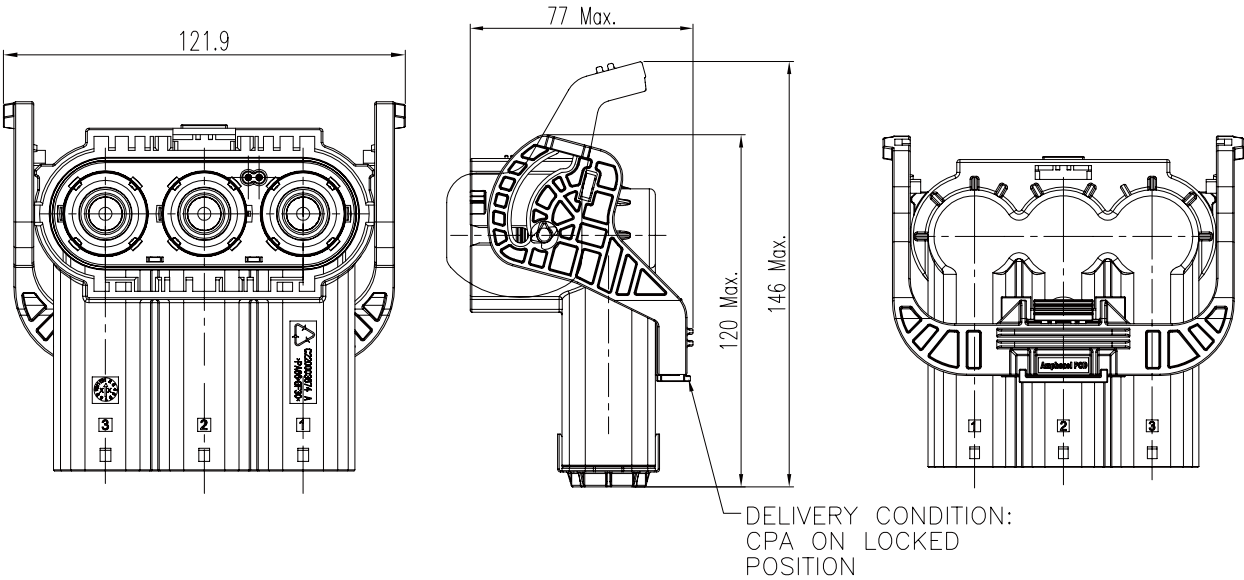


INSTALLATION CLEARANCE

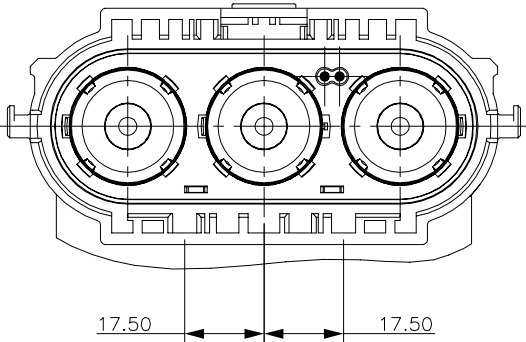


Excel|Mate Plus  
(HVSL 1000)

3 PIN PLUG RIGHT ANGLE



INSERT ORIENTATIONS

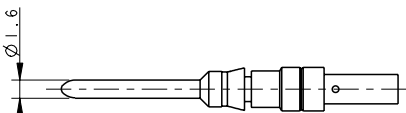
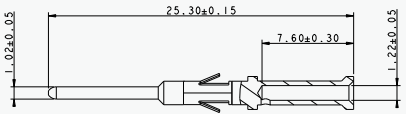
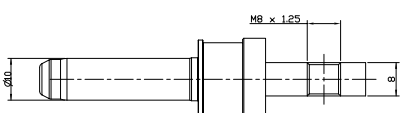
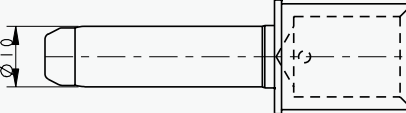
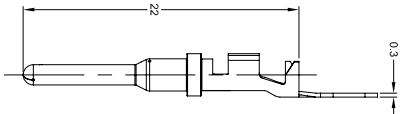
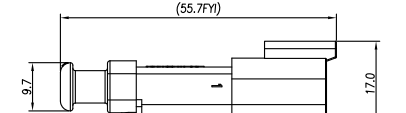
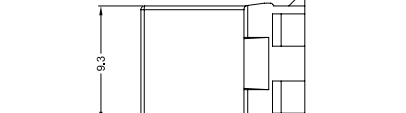


P/N

Coding A  
HVSL1000 08 3 A

## 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<br>for Interlock | C42000400504G<br>0.5mm <sup>2</sup> max wire                                                                                                                     |    |
| 2 or 3 pin<br>for Interlock                   | C200003609<br>0.5mm <sup>2</sup> max wire                                                                                                                        |    |
| Power contact<br>Thread for Bus-bar           | C4200036152                                                                                                                                                      |   |
| Power contact<br>Crimp for wire               | C42000361511 - 70mm <sup>2</sup> wire<br>C42000361512 - 50mm <sup>2</sup> wire<br>C42000361513 - 35mm <sup>2</sup> wire<br>C42000361514 - 25mm <sup>2</sup> wire |  |
| 1 Pin: In-line receptacle<br>for Interlock    | AT60-16-0622<br>0.5mm <sup>2</sup> max wire                                                                                                                      |  |
|                                               | AT04-2P-SR02BLK<br>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<br>HVIL plug                                             | C210003610                                                                                                                                                   |         |
| 1 Pin (For In-line plug)<br>Rope for Interlock                 | C210003608<br>(Order with HVIL plug)                                                                                                                         |         |
| 1 Pin (For R/A plug)<br>Rope for Interlock                     | C210003611<br>(Order with HVIL plug)                                                                                                                         |         |
| Socket contact                                                 | C4200036161 - 70mm <sup>2</sup> wire<br>C4200036162 - 50mm <sup>2</sup> wire<br>C4200036163 - 35mm <sup>2</sup> wire<br>C4200036164 - 25mm <sup>2</sup> wire |         |
| Kit of socket insert<br>For plug                               | C4220036011 - 70mm <sup>2</sup> wire<br>C4220036012 - 50mm <sup>2</sup> wire<br>C4220036013 - 35mm <sup>2</sup> wire<br>C4220036014 - 25mm <sup>2</sup> wire |         |
| Kit of socket insert<br>For receptacle in-line                 | C4220036021 - 70mm <sup>2</sup> wire<br>C4220036022 - 50mm <sup>2</sup> wire<br>C4220036023 - 35mm <sup>2</sup> wire<br>C4220036024 - 25mm <sup>2</sup> wire |         |
| Power contact - rear<br>Crimp for wire<br>for right angle plug | C4220036031 - 70mm <sup>2</sup> wire<br>C4220036032 - 50mm <sup>2</sup> wire<br>C4220036033 - 35mm <sup>2</sup> wire<br>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)



# 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                                                                                                           |          |    |   |   |   |    |
| B: Coding B (Only for 2 & 3 positions)                                                                                |          |    |   |   |   |    |
| C: Coding C (Only for 2 & 3 positions)                                                                                |          |    |   |   |   |    |
| D: Coding D (Only for 1 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   70: 70mm <sup>2</sup> cable |          |    |   |   |   |    |

## HOW TO ORDER: RECEPTACLE

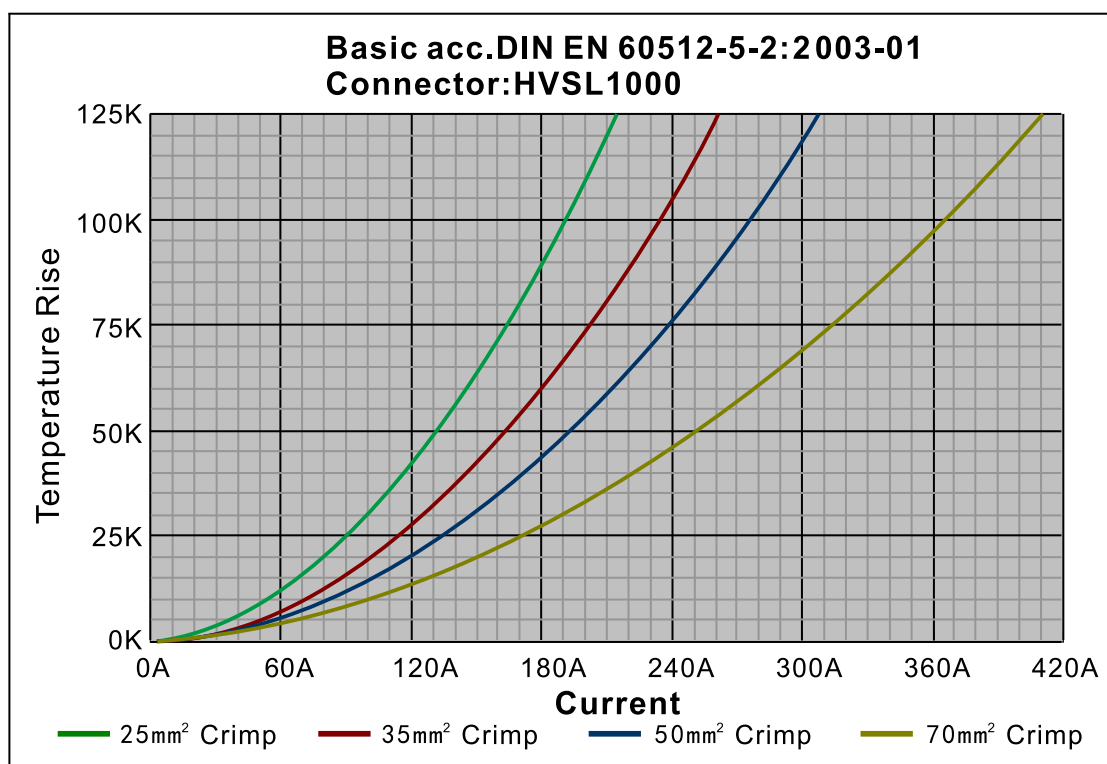
|                                               |          |    |   |   |   |    |
|-----------------------------------------------|----------|----|---|---|---|----|
|                                               | HVSL1000 | 01 | 1 | A | 0 | H8 |
| <b>Product type:</b>                          |          |    |   |   |   |    |
| 01: In-line receptacle                        |          |    |   |   |   |    |
| 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                                   |          |    |   |   |   |    |
| B: Coding B (Only for 2 & 3 positions)        |          |    |   |   |   |    |
| C: Coding C (Only for 2 & 3 positions)        |          |    |   |   |   |    |
| D: Coding D (Only for 1 position)             |          |    |   |   |   |    |
| <b>Interlock:</b>                             |          |    |   |   |   |    |
| 0: Without interlock   1: With interlock      |          |    |   |   |   |    |
| <b>Cable size:</b>                            |          |    |   |   |   |    |
| H8: OT terminal                               |          |    |   |   |   |    |

## EXTRACTION TOOL FOR RECEPTACLE

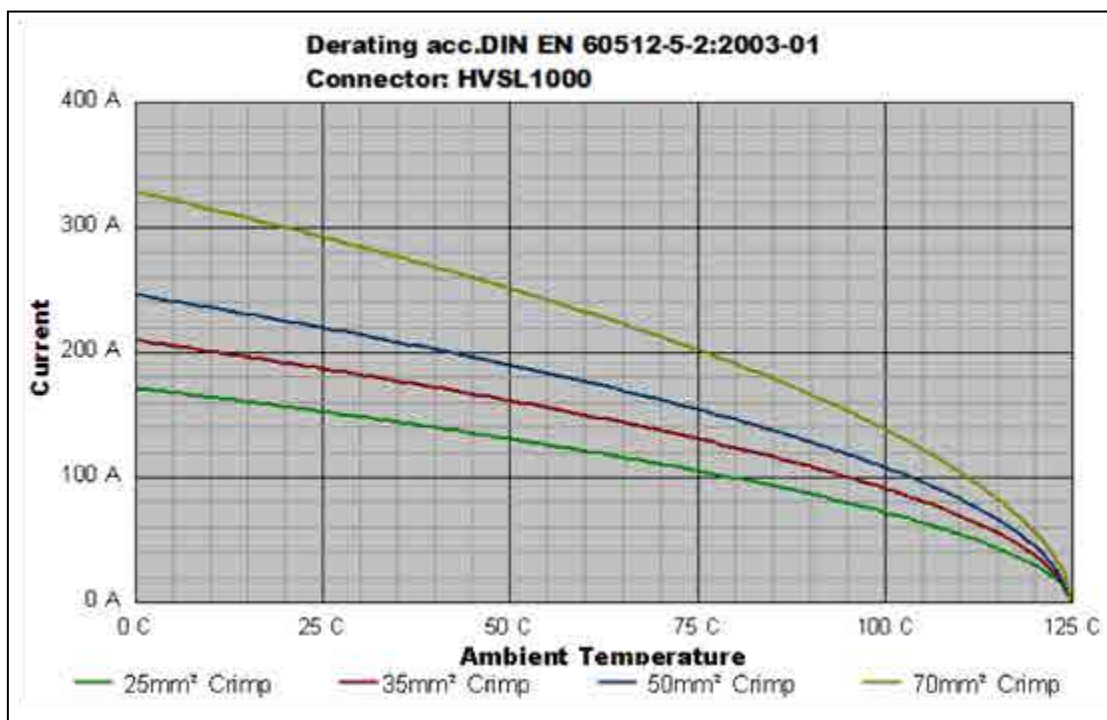
HVIL-contact Extraction tool: HVTOOL10R



## HVSL 1000 | Temperature Rise



## HVSL 1000 | Derating Curve



Remark: tests carried out on the complete connector.

# Excel|Mate S (HVSL 800)

## Excel|Mate S



### Excel|Mate S

Excel|Mate S is a 2 pin and 3 pin connector with a current carrying capacity from 120 to 180A and 25 to 50 mm<sup>2</sup> crimping cable.

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

### KEY FEATURES

- Integrated internal HVIL
- Current rating up to 180A
- 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                                    |

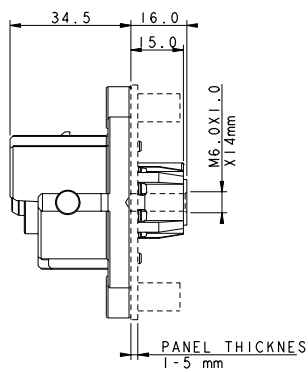
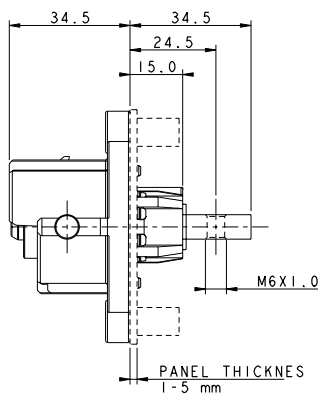
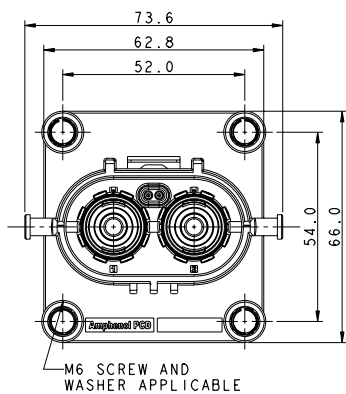
### ELECTRICAL

|                              |                                     |
|------------------------------|-------------------------------------|
| Rated voltage                | 1000V DC                            |
| Rated current                | Max 180A @ ambient temperature 70°C |
| Insulator resistance         | > 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       |

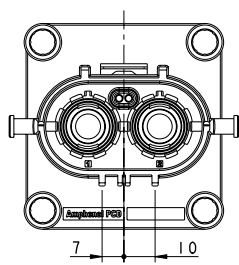
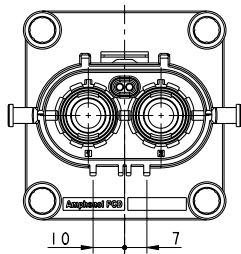
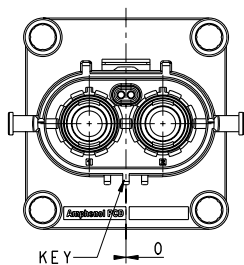
2 PIN RECEPTACLE



POWER CONTACT  
HOLE TERMINATION

POWER CONTACT  
SCREW TERMINATION - INTERNAL

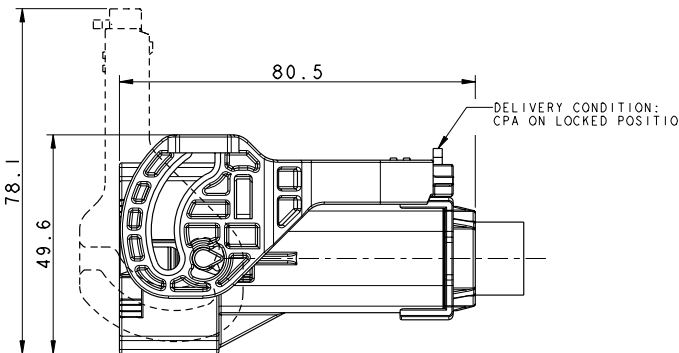
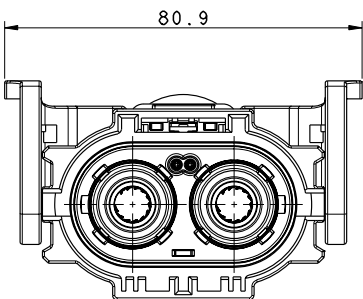
INSERT ORIENTATIONS



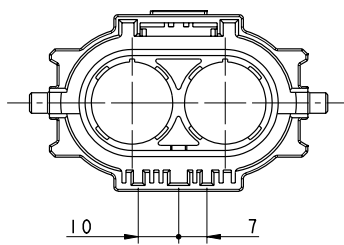
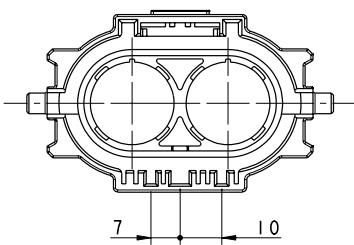
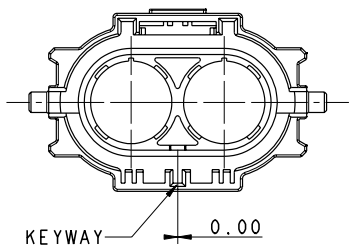
|     |                |                |                |
|-----|----------------|----------------|----------------|
|     | Coding A       | Coding B       | Coding C       |
| P/N | HVSL800 02 2 A | HVSL800 02 2 B | HVSL800 02 2 C |

Excel|Mate S  
(HVSL 800)

2 PIN STRAIGHT PLUG

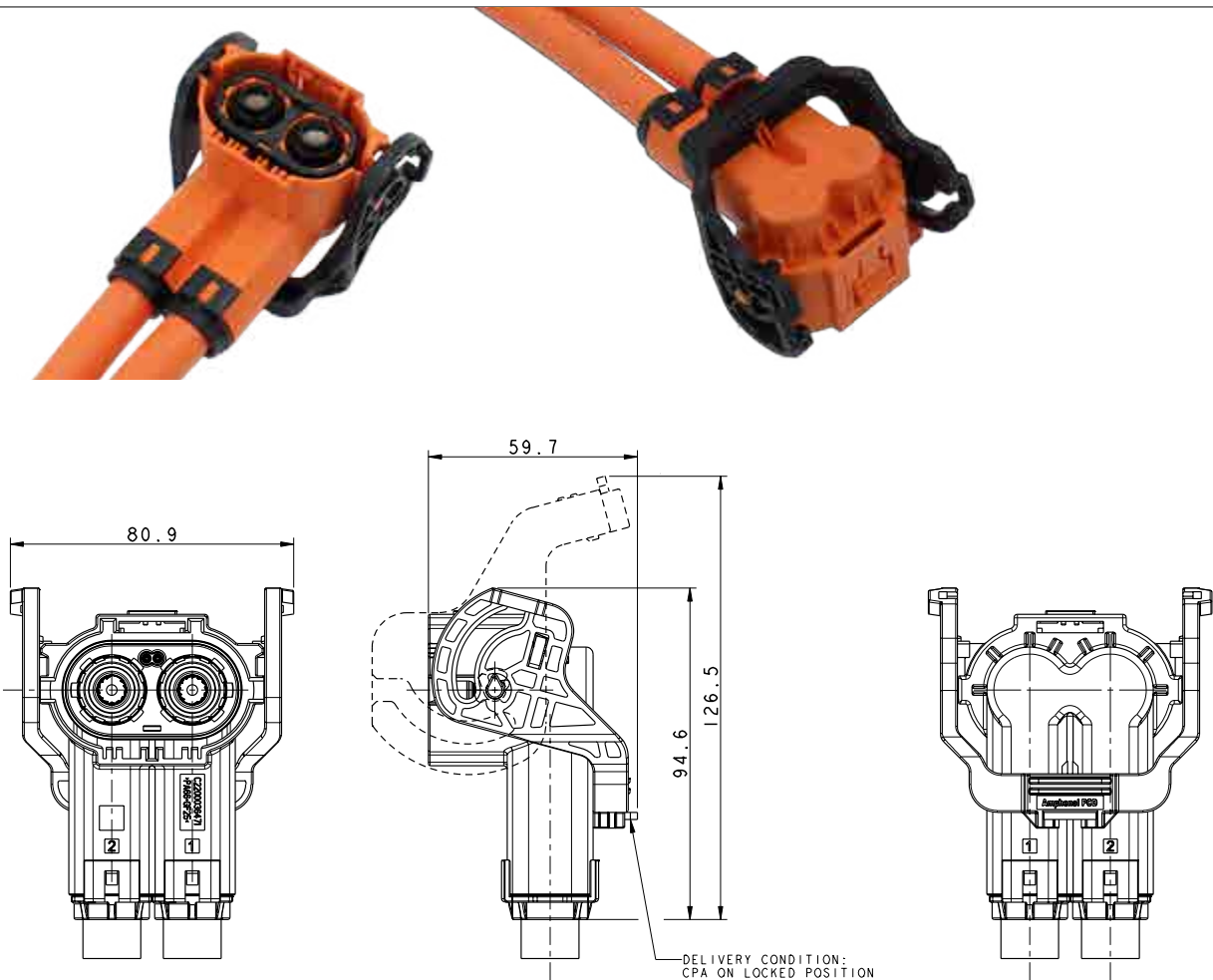


INSERT ORIENTATIONS

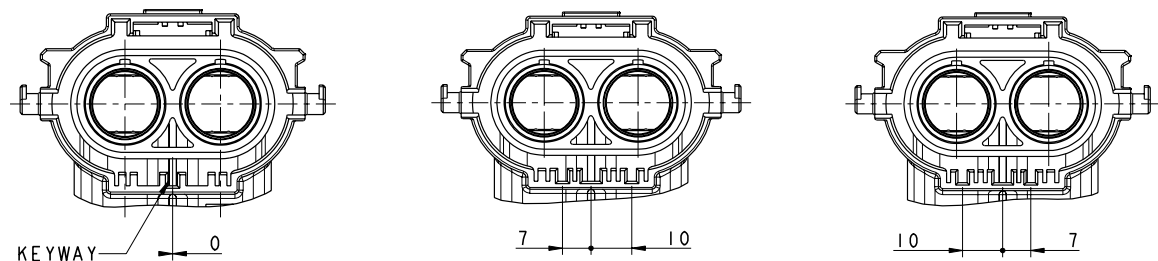


|     | Coding A       | Coding B       | Coding C       |
|-----|----------------|----------------|----------------|
| P/N | HVSL800 06 2 A | HVSL800 06 2 B | HVSL800 06 2 C |

2 PIN RIGHT ANGLE PLUG

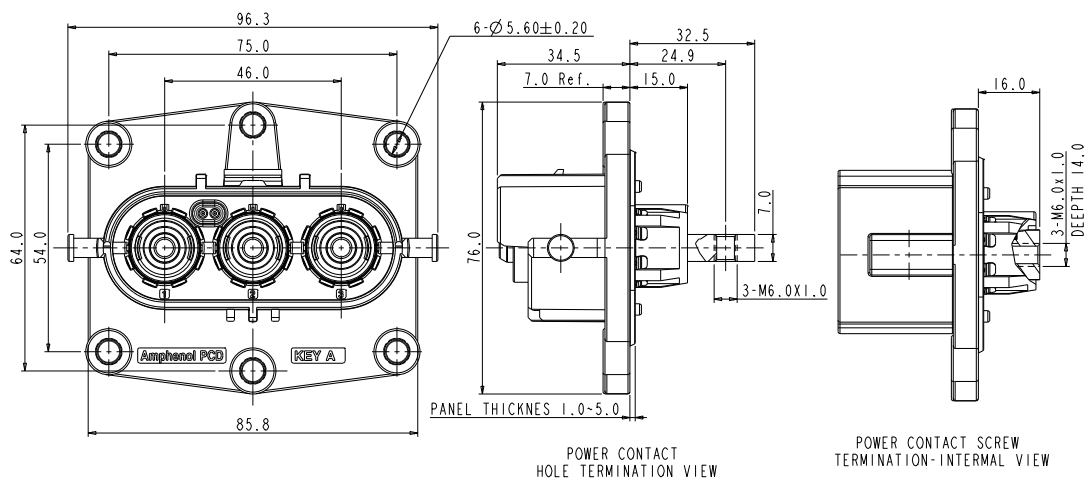


INSERT ORIENTATIONS

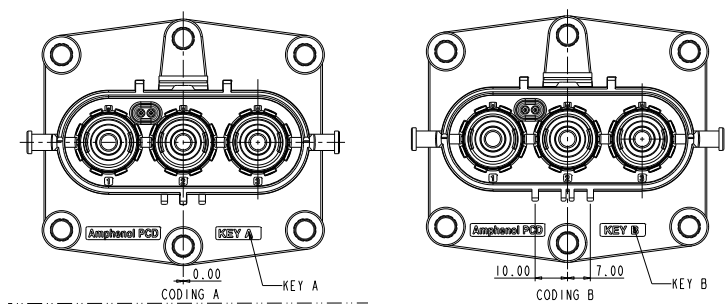


|     |                |                |                |
|-----|----------------|----------------|----------------|
|     | Coding A       | Coding B       | Coding C       |
| P/N | HVSL800 08 2 A | HVSL800 08 2 B | HVSL800 08 2 C |

3 PIN RECEPTACLE

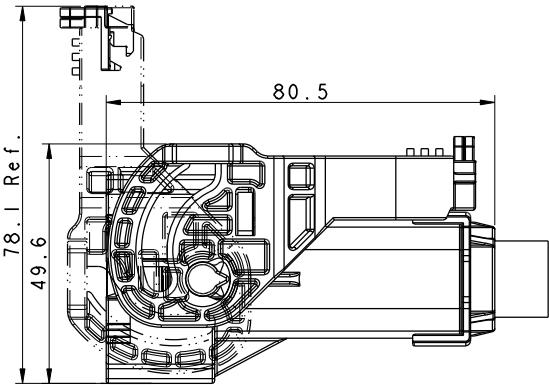
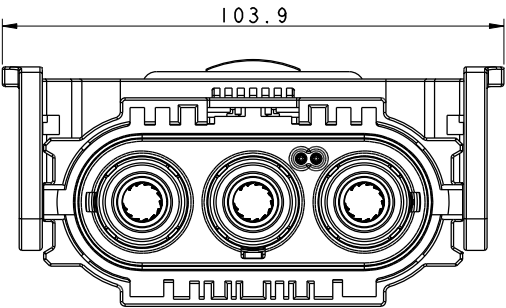


INSERT ORIENTATIONS

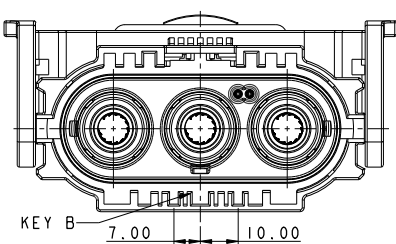
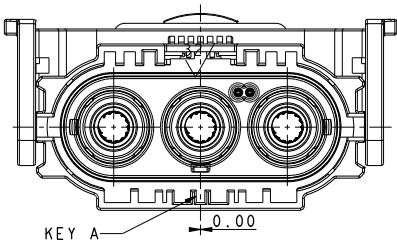


|     | Coding A       | Coding B       |
|-----|----------------|----------------|
| P/N | HVSL800 02 3 A | HVSL800 02 3 B |

3 PIN STRAIGHT PLUG



INSERT ORIENTATIONS

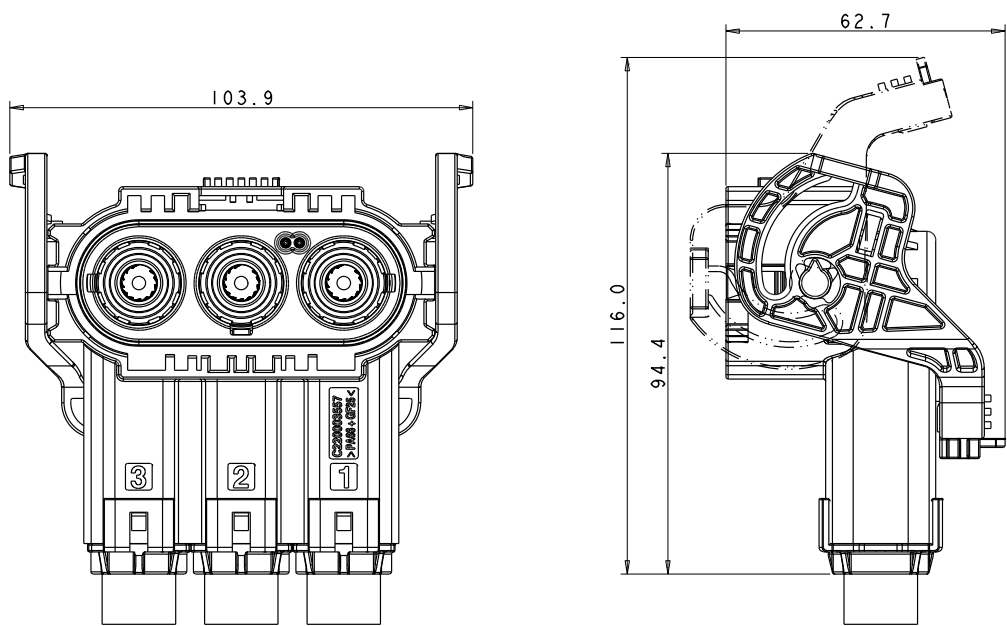


P/N

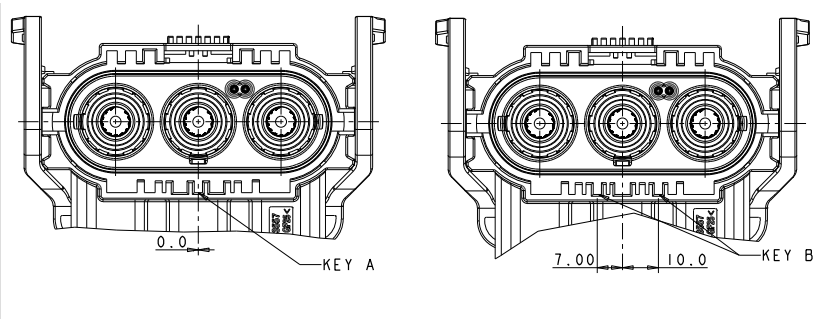
Coding A  
HVSL800 06 3 A

Coding B  
HVSL800 06 3 B

3 PIN RIGHT ANGLE PLUG

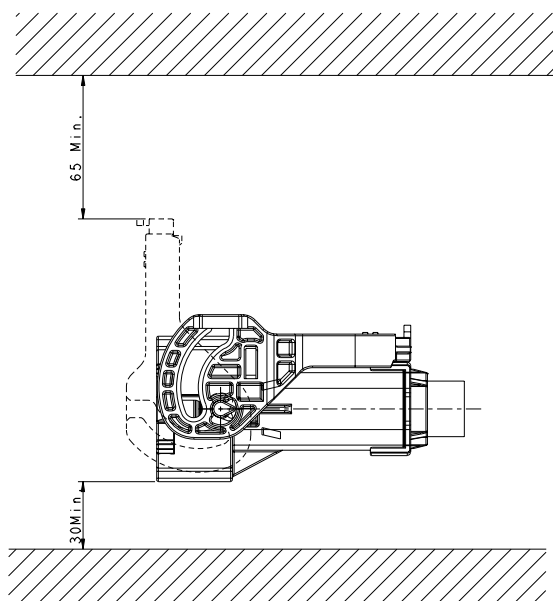


INSERT ORIENTATIONS



|     | A              | B              |
|-----|----------------|----------------|
| P/N | HVSL800 08 3 A | HVSL800 08 3 B |

## INSTALLATION CLEARANCE



## EXTRACTION TOOL FOR RECEPTACLE

HVIL-contact Extraction tool: HVTOOL10R



## HOW TO ORDER: PLUG

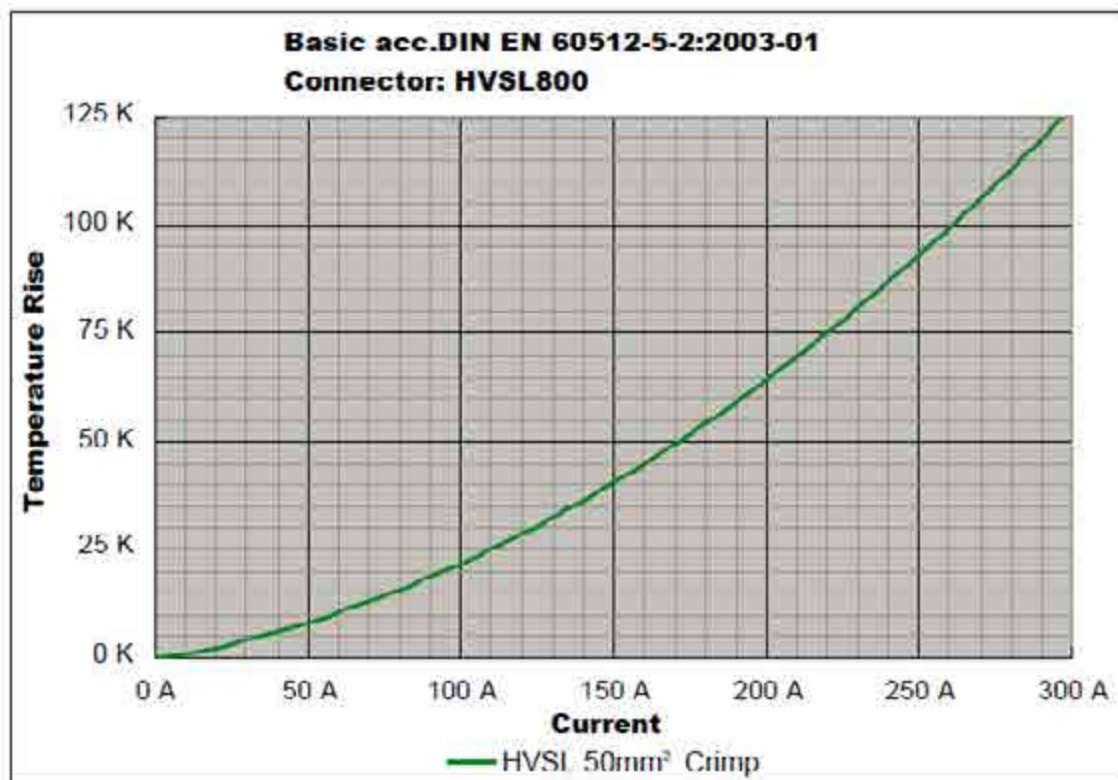
|                                                                                         |    |   |   |   |    |
|-----------------------------------------------------------------------------------------|----|---|---|---|----|
| HVSL800                                                                                 | 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

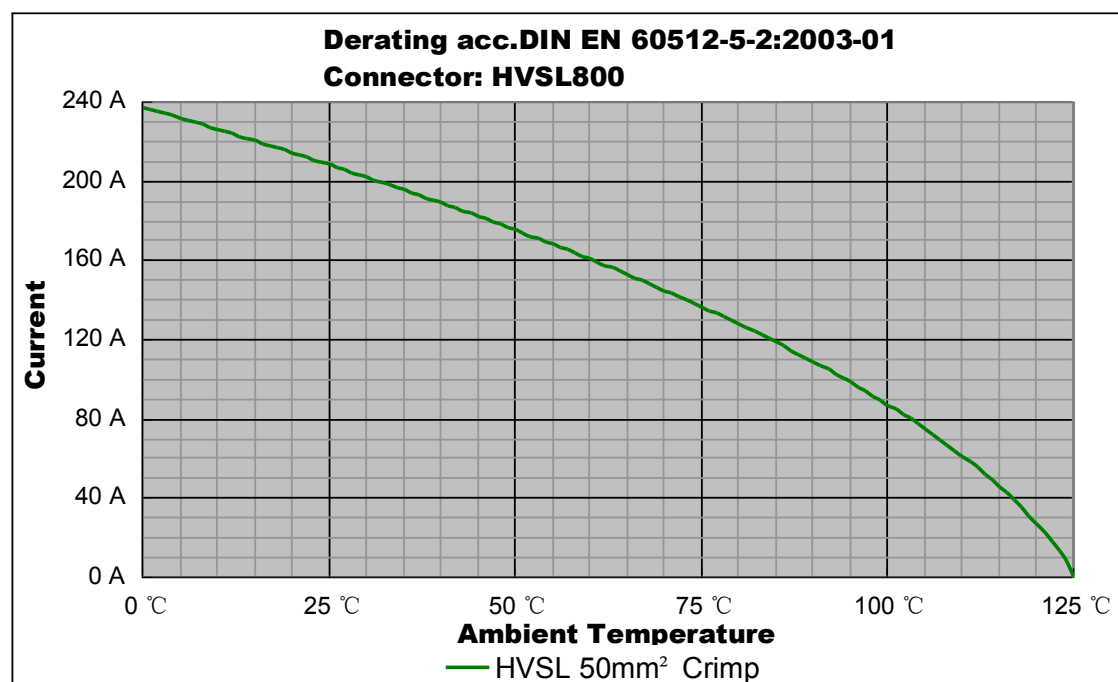
|                                                                 |    |   |   |   |    |
|-----------------------------------------------------------------|----|---|---|---|----|
| HVSL800                                                         | 02 | 2 | A | 0 | H6 |
| <b>Product type:</b>                                            |    |   |   |   |    |
| 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.

## 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.

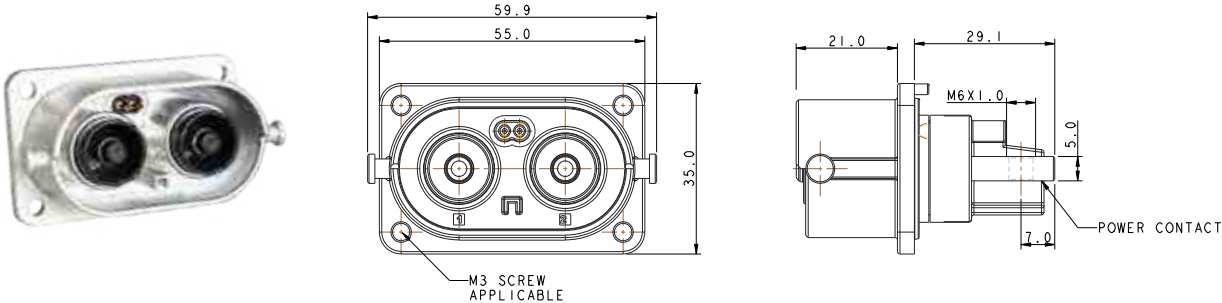
Specially designed for battery, inverters, junction boxes, power distribution boxes and others xEV devices' equipment.

### KEY FEATURES

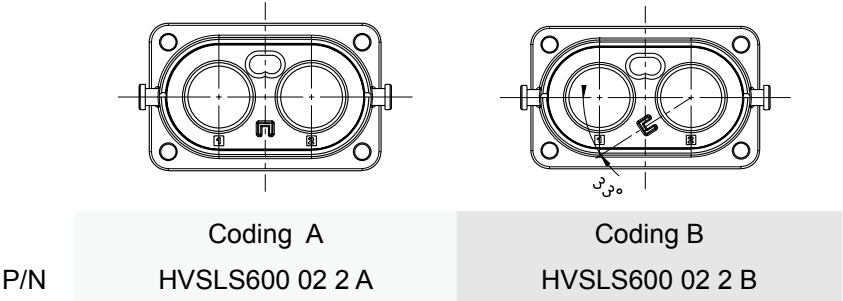
- Integrated internal HVIL
- Current rating up to 120A
- No tool required to unmate
- Sealing, IP67 (mated), IP6K9K
- Touch-proof, IP2XB
- Multiple coding positions
- CPA available

| MECHANICAL                     |                                         |
|--------------------------------|-----------------------------------------|
| Durability                     | ≥ 50 mating cycles                      |
| Wire range                     | 16 to 25 mm <sup>2</sup> shielded wire  |
| 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           | > 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                                |
| MATERIAL                       |                                         |
| Terminals                      | Copper/copper alloy with silver plating |
| Housing                        | Zinc alloy                              |

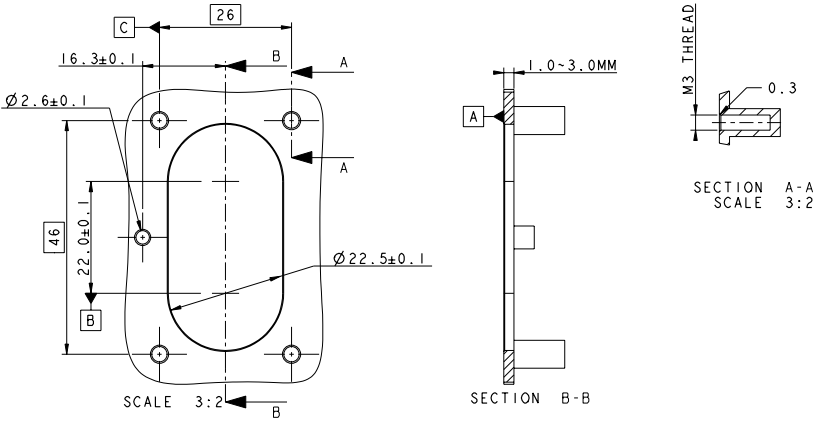
2 PIN RECEPTACLE



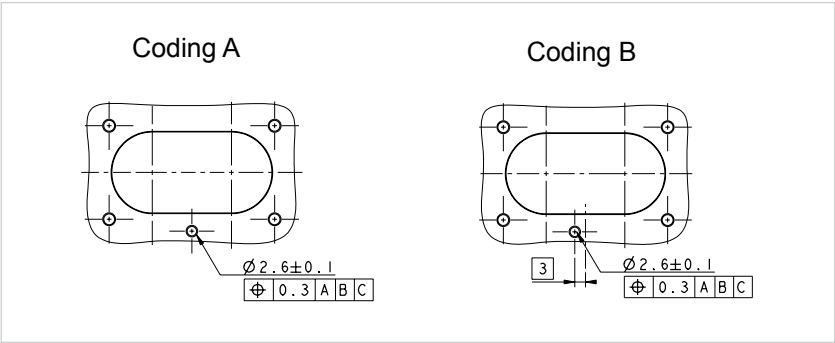
INSERT ORIENTATIONS



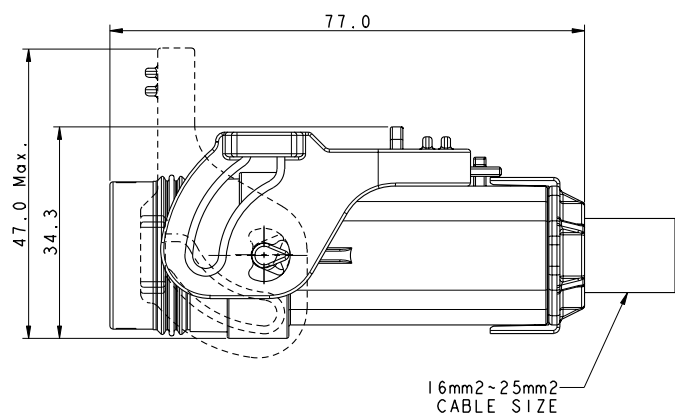
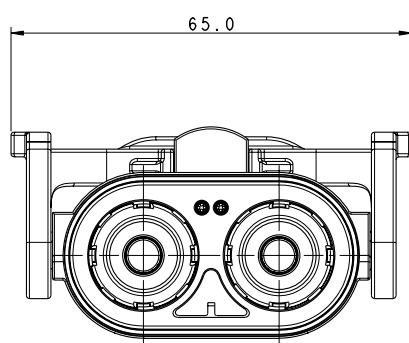
PANEL MOUNTING DIMENSIONS



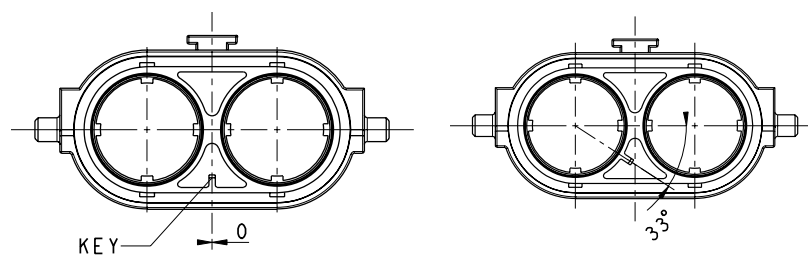
INSERT ORIENTATIONS



## 2 PIN STRAIGHT PLUG



## INSERT ORIENTATIONS



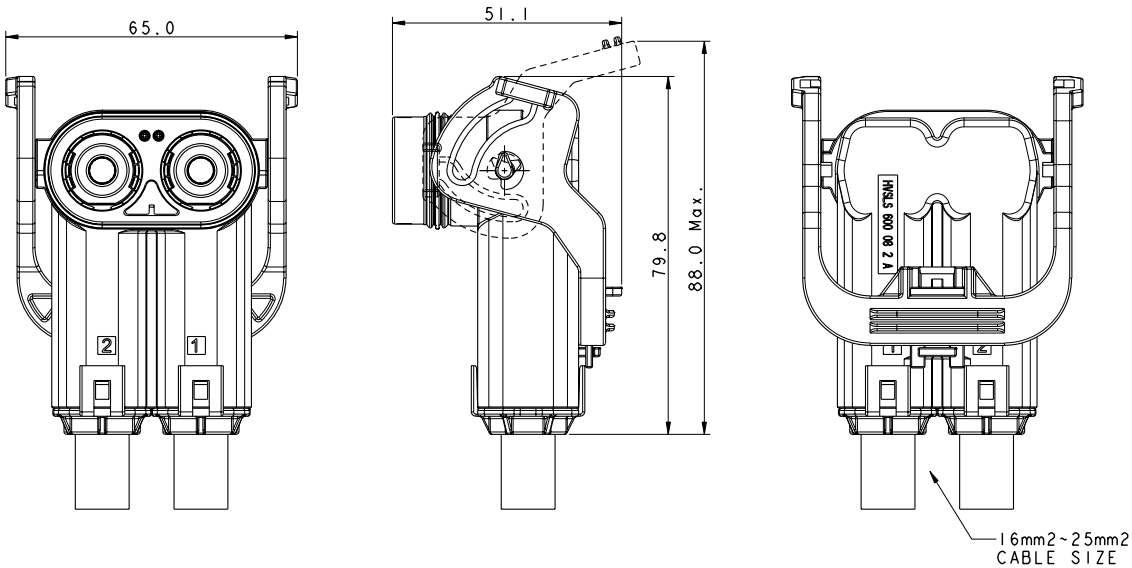
P/N

Coding A  
HVSLS600 06 2 A

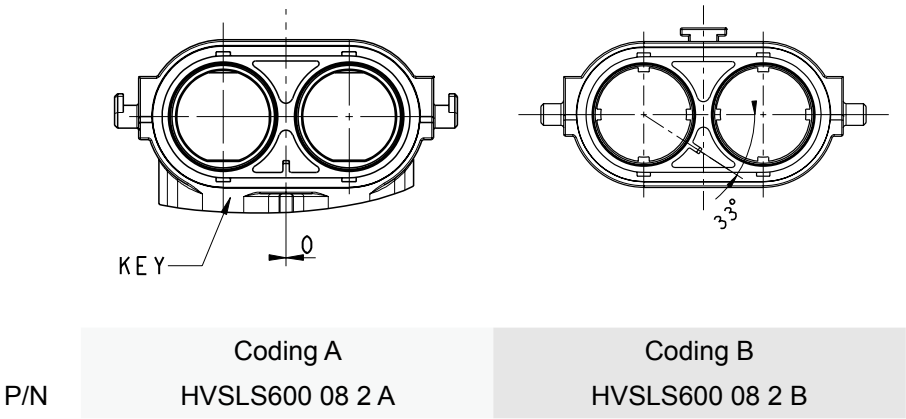
Coding B  
HVSLS600 06 2 B

Excel|Mate Metal  
(HVSLS 600)

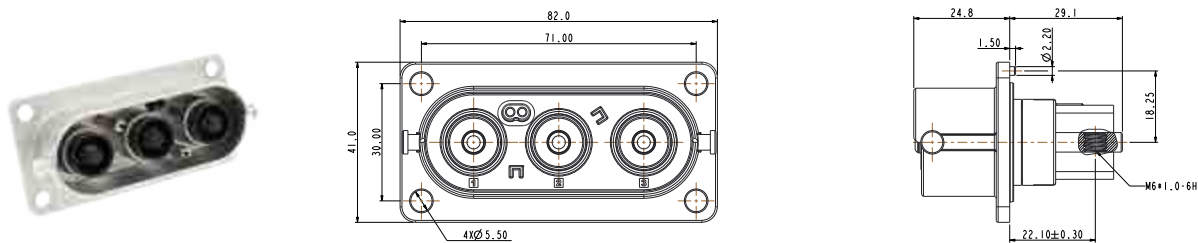
2 PIN RIGHT ANGLE PLUG



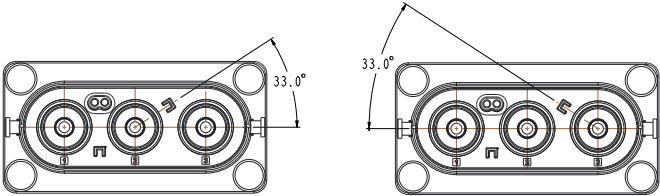
INSERT ORIENTATIONS



3 PIN RECEPTACLE

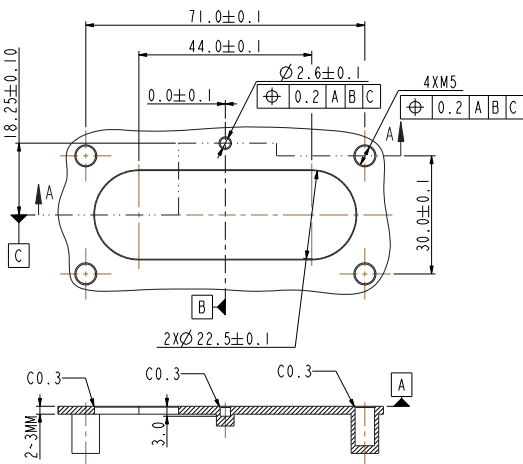


INSERT ORIENTATIONS

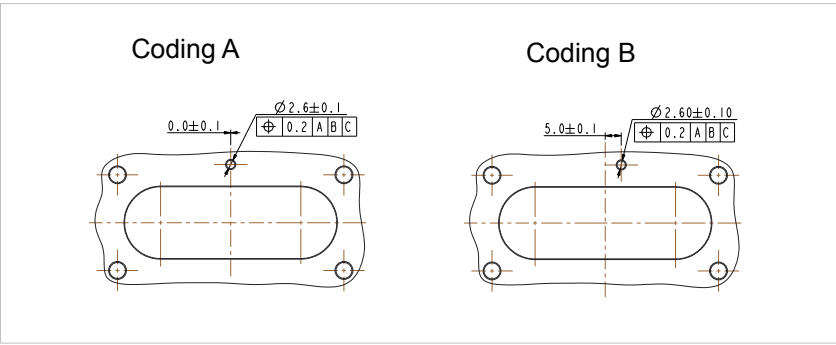


|     | Coding A        | Coding B        |
|-----|-----------------|-----------------|
| P/N | HVSLS600 02 3 A | HVSLS600 02 3 B |

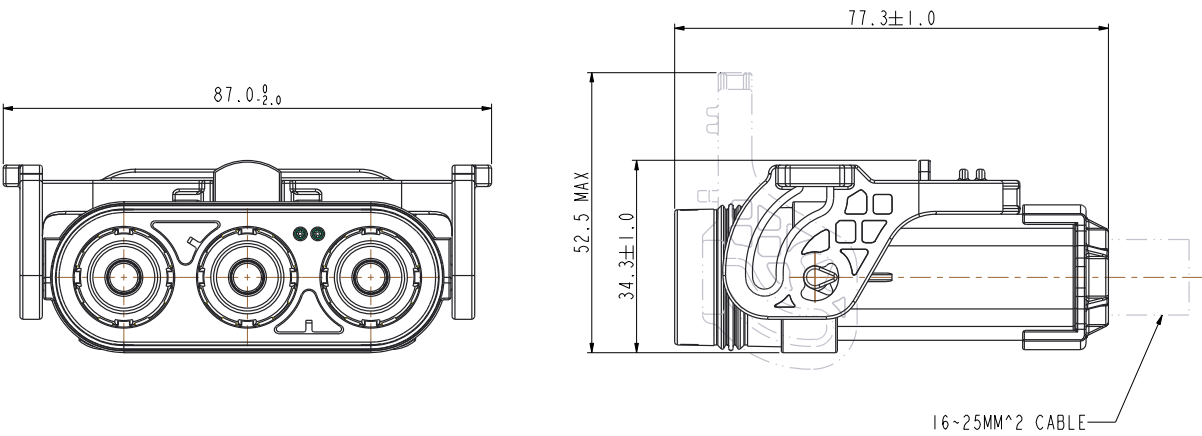
PANEL MOUNTING DIMENSIONS



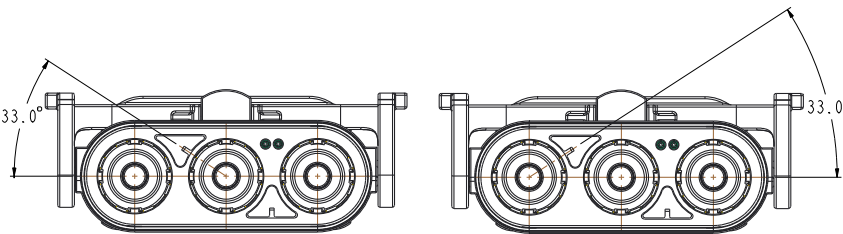
INSERT ORIENTATIONS



3 PIN STRAIGHT PLUG

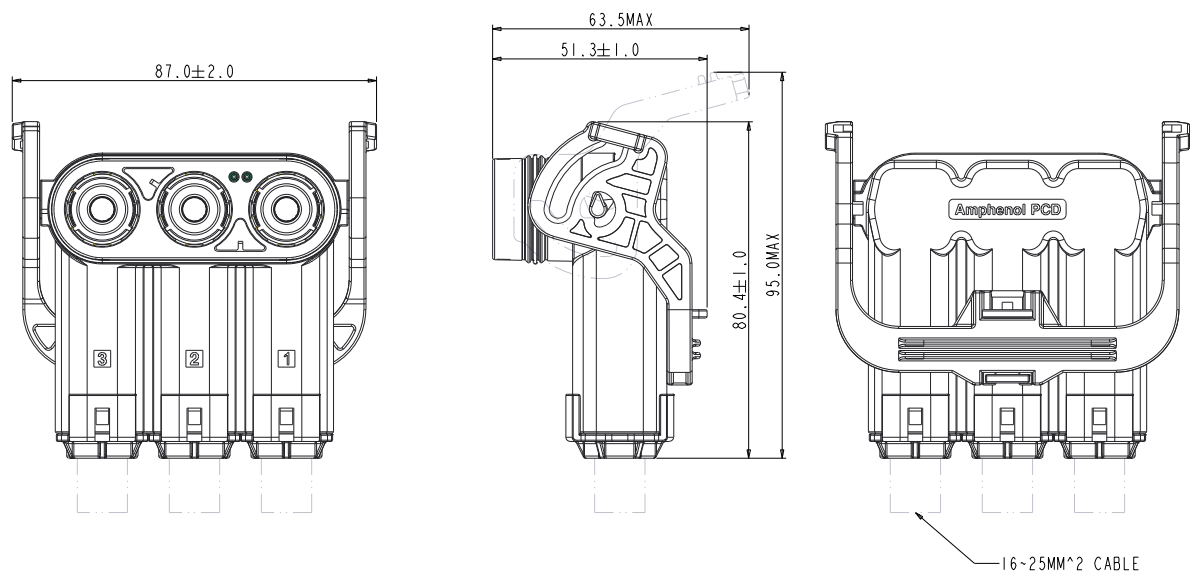


INSERT ORIENTATIONS

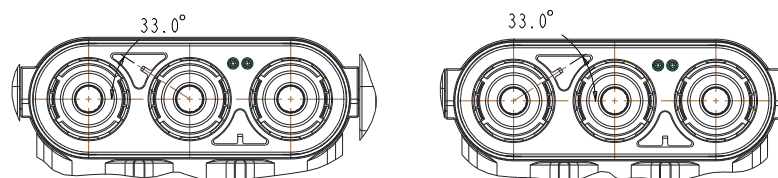


|     | Coding A        | Coding B        |
|-----|-----------------|-----------------|
| P/N | HVSLS600 06 3 A | HVSLS600 06 3 B |

### 3 PIN RIGHT ANGLE PLUG

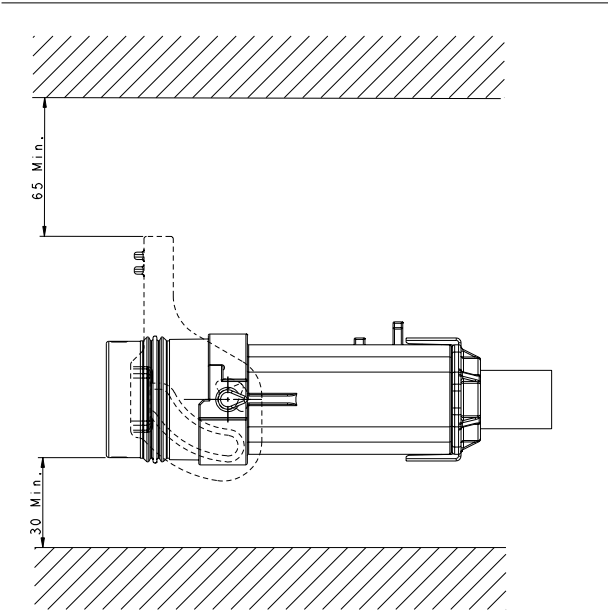


### INSERT ORIENTATIONS



|     | Coding A        | Coding B        |
|-----|-----------------|-----------------|
| P/N | HVSLS600 08 2 A | HVSLS600 08 2 B |

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.

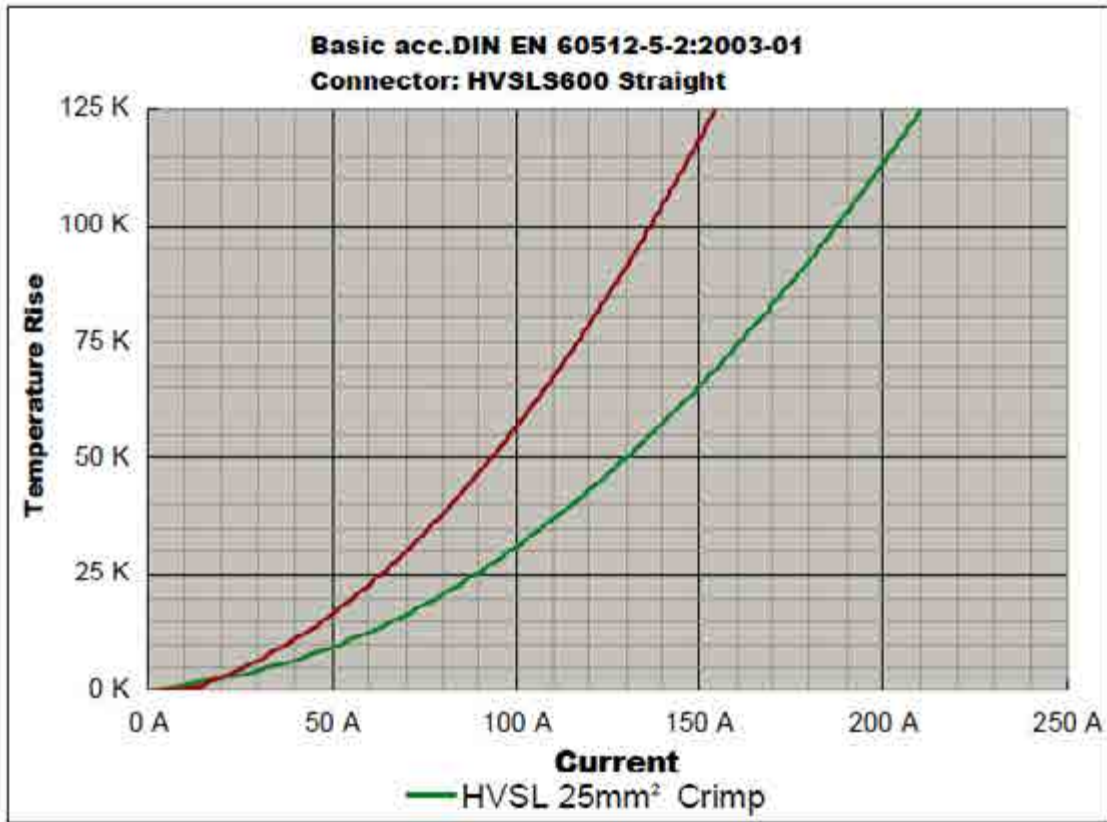
HOW TO ORDER: PLUG

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

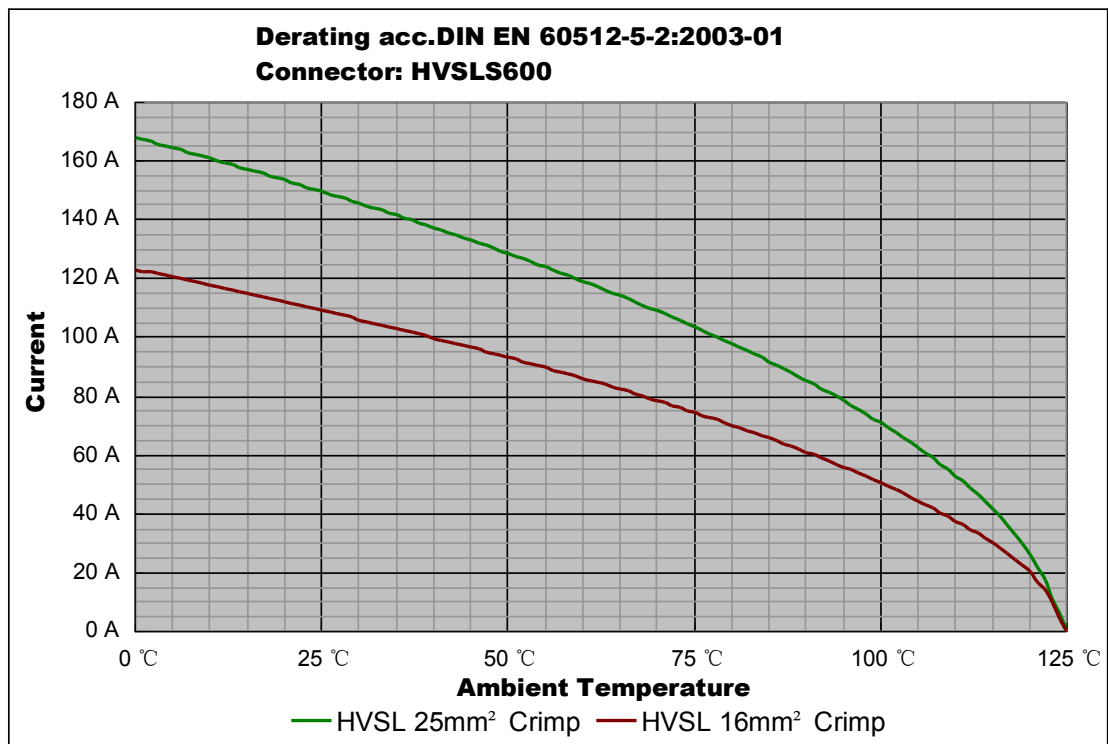
HOW TO ORDER: RECEPTACLE

|                                                                  |          |    |   |   |   |    |
|------------------------------------------------------------------|----------|----|---|---|---|----|
|                                                                  | HVSLS600 | 02 | 2 | A | 0 | H6 |
| <b>Product type:</b><br>02: Box mounted receptacle               |          |    |   |   |   |    |
| <b>Position:</b><br>2: 2 position   3: 3 position                |          |    |   |   |   |    |
| <b>Coding / Alternate position:</b><br>A: Coding A   B: Coding B |          |    |   |   |   |    |
| <b>Interlock:</b><br>0: Without interlock   1: With interlock    |          |    |   |   |   |    |
| <b>Cable size:</b><br>H6: OT terminal                            |          |    |   |   |   |    |

## HVSLS 600 | Temperature Rise



## HVSLS 600 | Derating Curve



Remark: tests carried out on the complete connector.

# Excel|Mate Metal (HVSLS 800)

## Excel|Mate Metal (HVSLS800)



### Excel|Mate Metal

Excel|Mate Metal is a 2 pin connector with a current carrying capacity of 180A and 35 to 50mm<sup>2</sup> crimping cable.

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

### KEY FEATURES

Integrated internal HVIL

Current rating up to 180A

No tool required to unmate

Sealing, IP67 (mated), IP6K9K

Touch-proof, IP2XB

Multiple coding positions

CPA available

### MECHANICAL

|                                |                                        |
|--------------------------------|----------------------------------------|
| Durability                     | ≥ 50 mating cycles                     |
| Wire range                     | 35 to 50 mm <sup>2</sup> shielded wire |
| Insertion and extraction force | < 100N                                 |
| 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            |

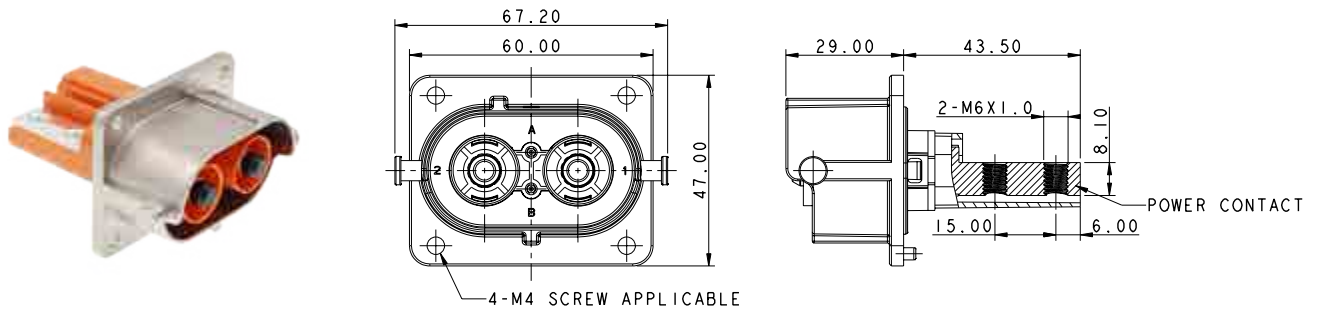
### ENVIRONMENTAL

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

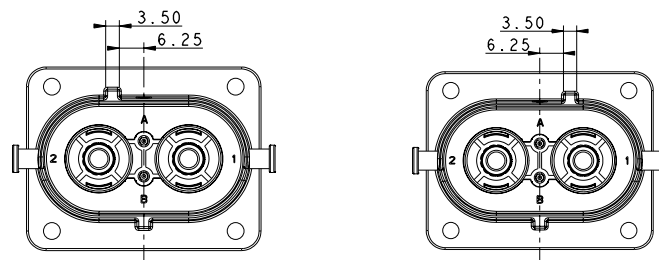
### MATERIAL

|           |                                         |
|-----------|-----------------------------------------|
| Terminals | Copper/copper alloy with silver plating |
| Housing   | Zinc alloy                              |

## RECEPTACLE

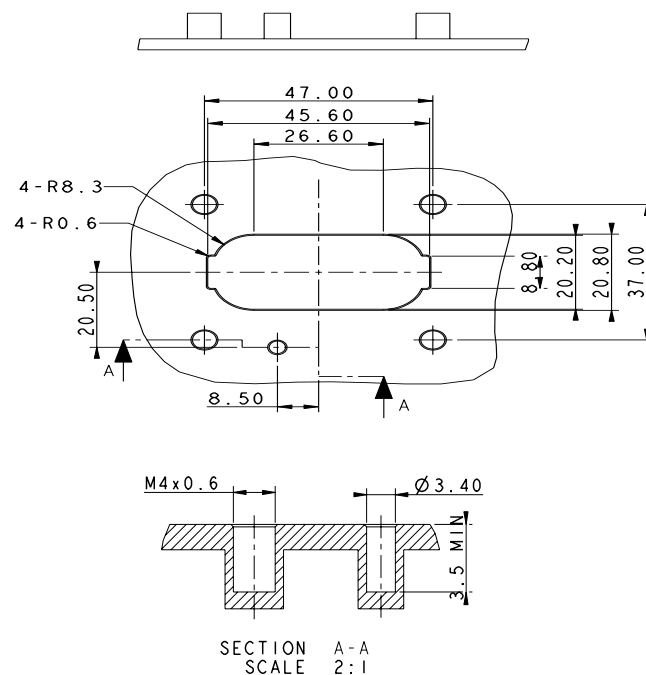


## INSERT ORIENTATIONS

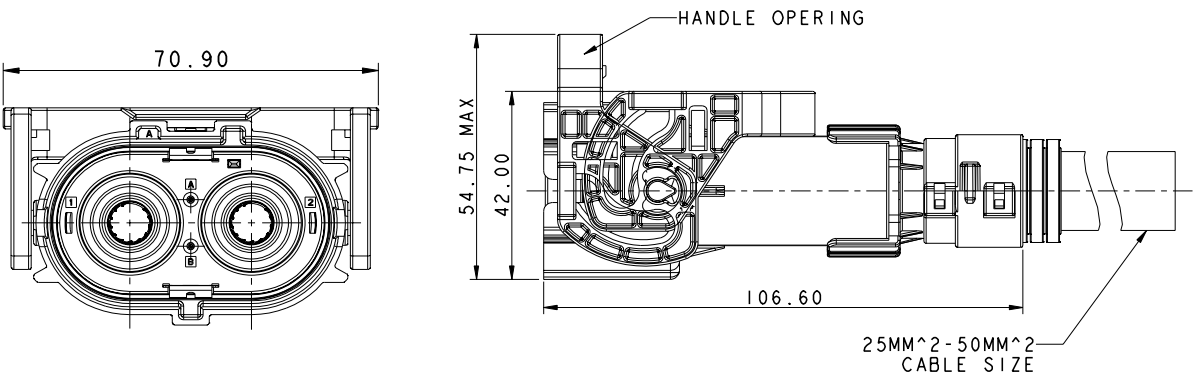


|     | Coding A       | Coding B       |
|-----|----------------|----------------|
| P/N | HVSL800 02 2 A | HVSL800 02 2 B |

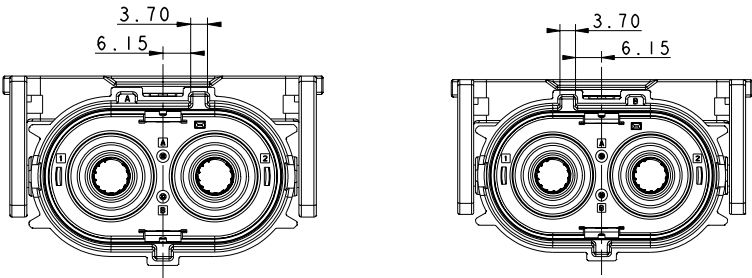
## PANEL MOUNTED DIMENSIONS



STRAIGHT PLUG

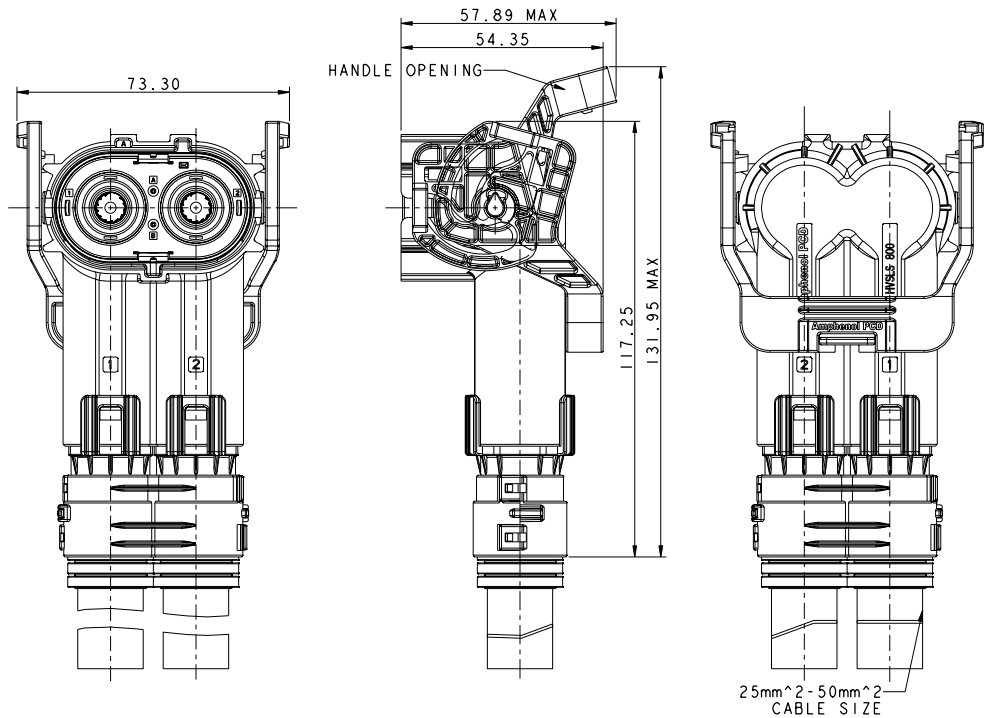


INSERT ORIENTATIONS

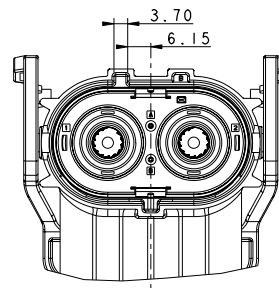
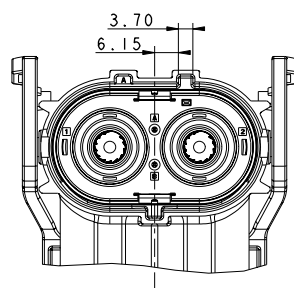


|     | Coding A        | Coding B        |
|-----|-----------------|-----------------|
| P/N | HVSLS800 06 2 A | HVSLS800 06 2 B |

## RIGHT ANGLE PLUG



## INSERT ORIENTATIONS

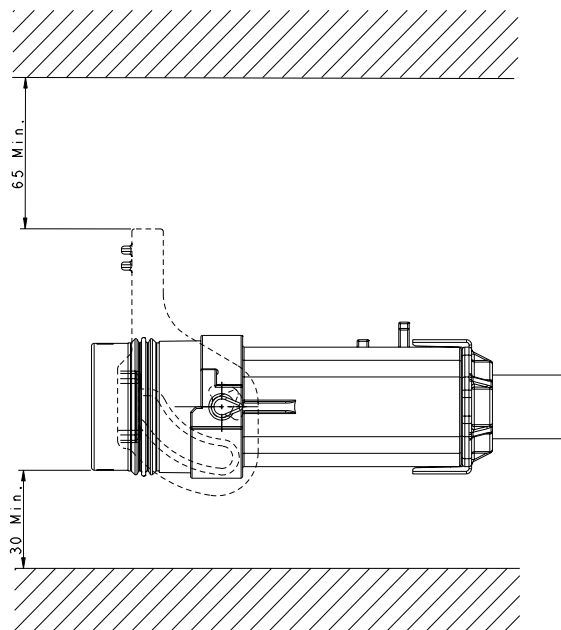


P/N

Coding A  
HVSLS800 08 2 A

Coding B  
HVSLS800 08 2 B

## INSTALLATION CLEARANCE



## HOW TO ORDER: PLUG

|                                                           |          |    |   |   |   |    |
|-----------------------------------------------------------|----------|----|---|---|---|----|
|                                                           | HVSLS800 | 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>                                        |          |    |   |   |   |    |
| 35: 35mm <sup>2</sup> cable   50: 50mm <sup>2</sup> cable |          |    |   |   |   |    |

## HOW TO ORDER: RECEPTACLE

|                                          |          |    |   |   |   |    |
|------------------------------------------|----------|----|---|---|---|----|
|                                          | HVSLS800 | 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 Eco (HVSL600 1 POSITION CONNECTOR)



### 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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67 (mated), IP6K9K

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                | 800V DC                         |
| Rated current                | 120A @ ambient temperature 70°C |
| Insulator resistance         | > 200MΩ                         |
| Dielectric withstand voltage | 3000V AC                        |
| Shielding                    | 360° from wire to device        |

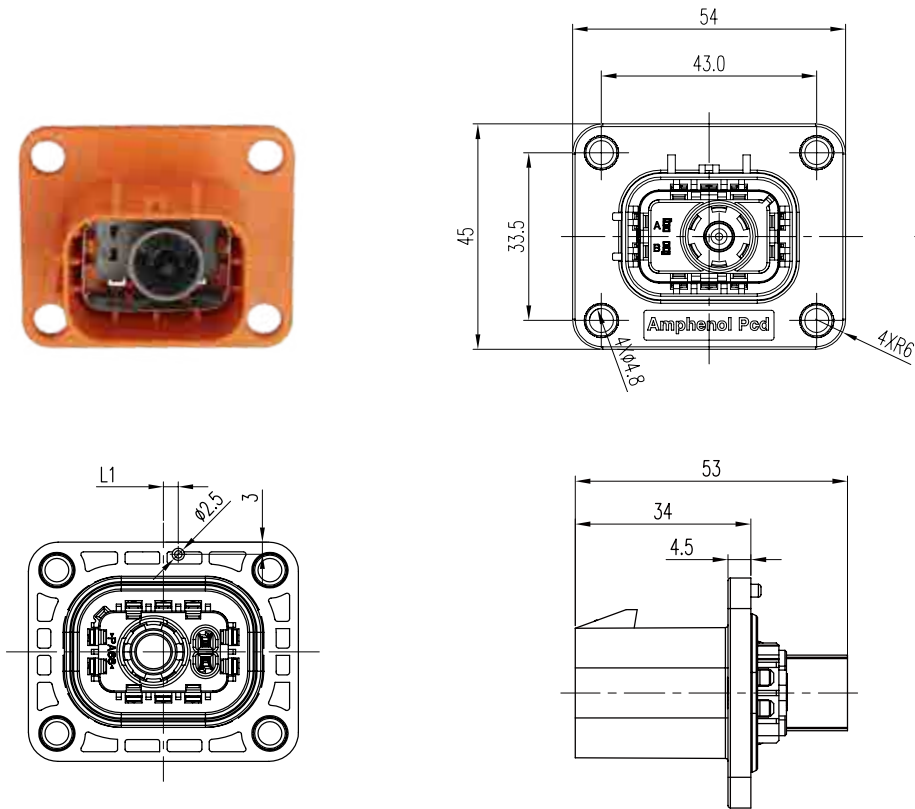
### ENVIRONMENTAL

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

### MATERIAL

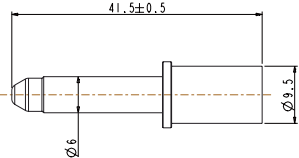
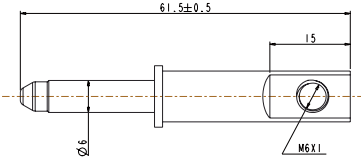
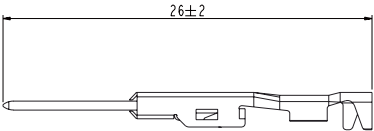
|           |                                         |
|-----------|-----------------------------------------|
| Terminals | Copper/copper alloy with silver plating |
| Housing   | PA66 + GF                               |

RECEPTACLE



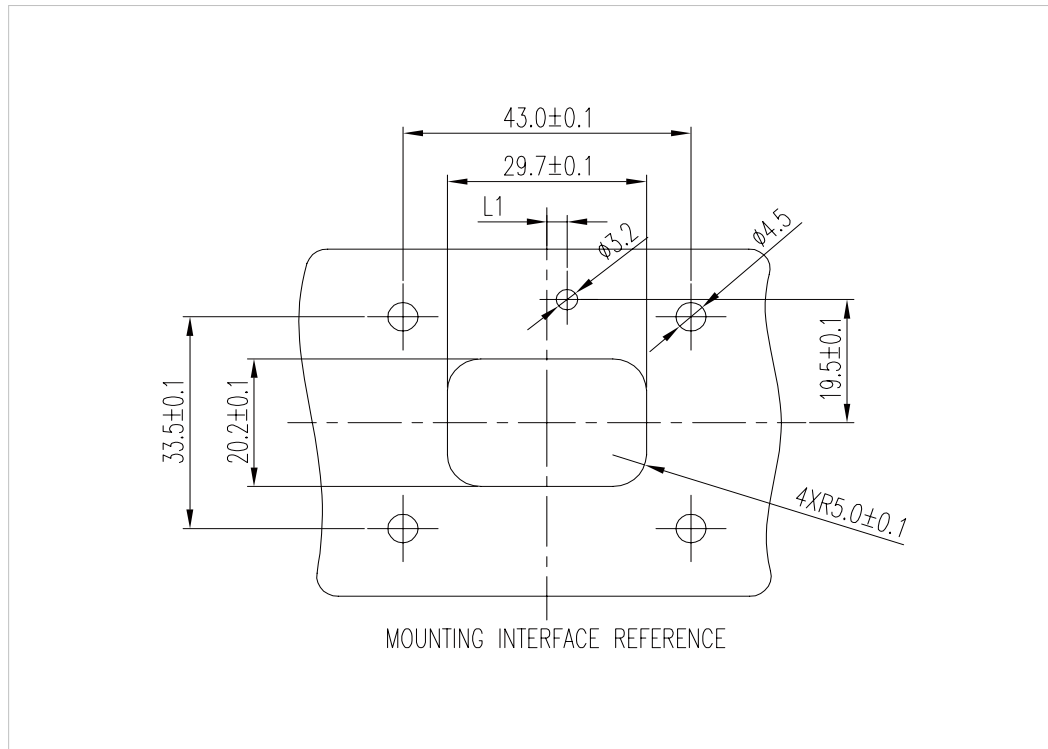
CONTACTS

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

| For HVSL600021XX25                                                                  | For HVSL600021XXH6                                                                  | For HVSL600021XX25                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Pin contact: crimp for wire                                                         | Pin contact: end with bus-bar                                                       | Pin signal contact (HVIL)                                                            |
| P/N: C420003621                                                                     | P/N: C420003625                                                                     | P/N: C310003613                                                                      |
|  |  |  |
| 25mm <sup>2</sup> unshielded wire                                                   | —                                                                                   | 0.5mm <sup>2</sup> unshielded wire                                                   |

## PANEL MOUNTING DIMENSIONS

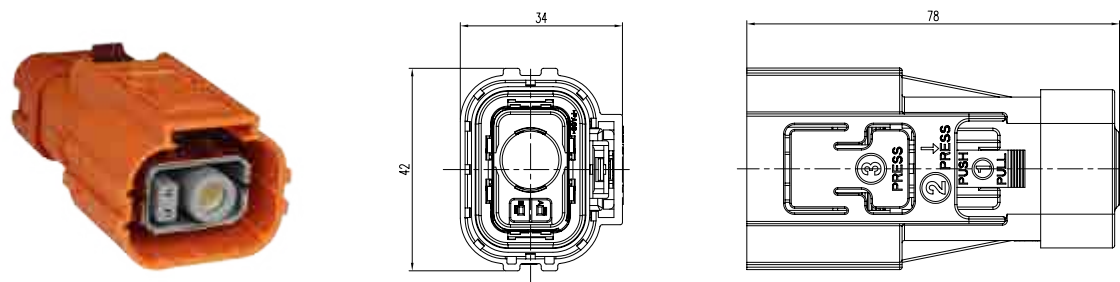
| CODING           | A | B  | C  | D  | E  |
|------------------|---|----|----|----|----|
| L1 (Receptacle)  | 0 | 3  | 6  | -3 | -6 |
| L1 (Panel mount) | 0 | -3 | -6 | 3  | 6  |



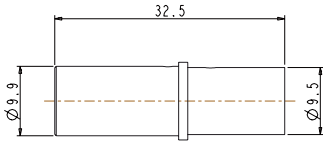
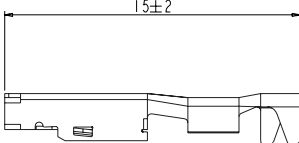
## INSERT ORIENTATIONS

|     |                |                |                |                |                |
|-----|----------------|----------------|----------------|----------------|----------------|
|     |                |                |                |                |                |
|     | Coding A       | Coding B       | Coding C       | Coding D       | Coding E       |
| P/N | HVSL600 02 1 A | HVSL600 02 1 B | HVSL600 02 1 C | HVSL600 02 1 D | HVSL600 02 1 E |

PLUG



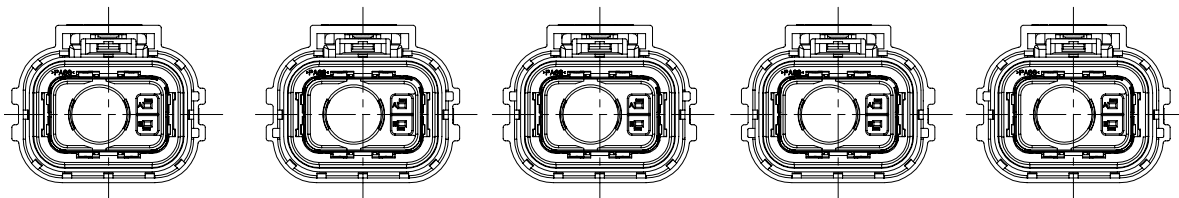
CONTACTS

| All connectors do not include contacts. Please order them separately (ref: P/N below) |                                                                                      |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| For HVSL600061XX25XX                                                                  | For HVSL600061XX25XX                                                                 |
| Socket contact                                                                        | Socket signal contact (HVIL)                                                         |
| P/N: C420003620                                                                       | P/N: C310003614                                                                      |
|    |  |
| 25mm <sup>2</sup> shielded wire                                                       | 0.5mm <sup>2</sup> unshielded wire                                                   |

Sealing gasket for HVSL600061XX25XX:

| 12                    | 11                    | 10                    |
|-----------------------|-----------------------|-----------------------|
| P/N: C270003607       | P/N: C2700036071      | P/N: C2700036072      |
| 12 ± 0.2 mm (Wire OD) | 11 ± 0.2 mm (Wire OD) | 10 ± 0.2 mm (Wire OD) |

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 |

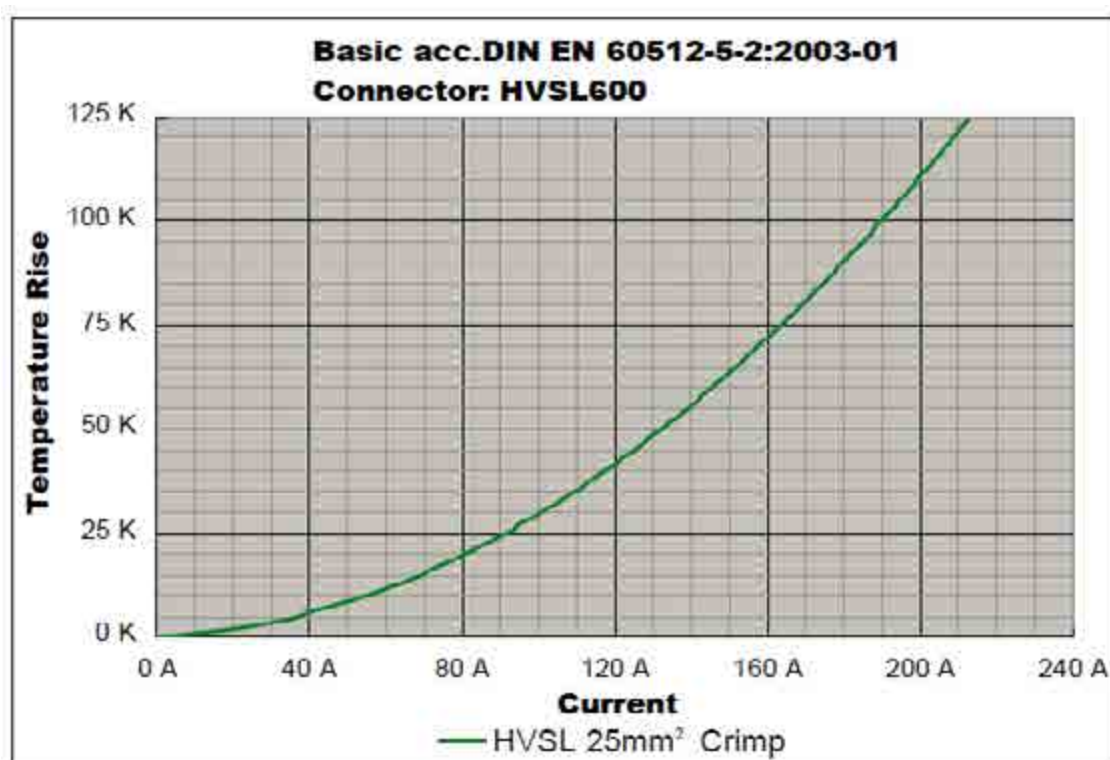
## HOW TO ORDER: PLUG

|                                     |                                                                                                            |         |    |   |   |   |    |    |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|---------|----|---|---|---|----|----|
|                                     |                                                                                                            | 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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |         |    |   |   |   |    |    |
| <b>Interlock:</b>                   | <b>0:</b> Without interlock<br><b>1:</b> With interlock                                                    |         |    |   |   |   |    |    |
| <b>Cable size:</b>                  | <b>25:</b> 25mm <sup>2</sup>                                                                               |         |    |   |   |   |    |    |
| <b>Sealing gasket:</b>              | <b>10:</b> 10mm (Wire OD)<br><b>11:</b> 11mm (Wire OD)<br><b>12:</b> 12mm (Wire OD)                        |         |    |   |   |   |    |    |

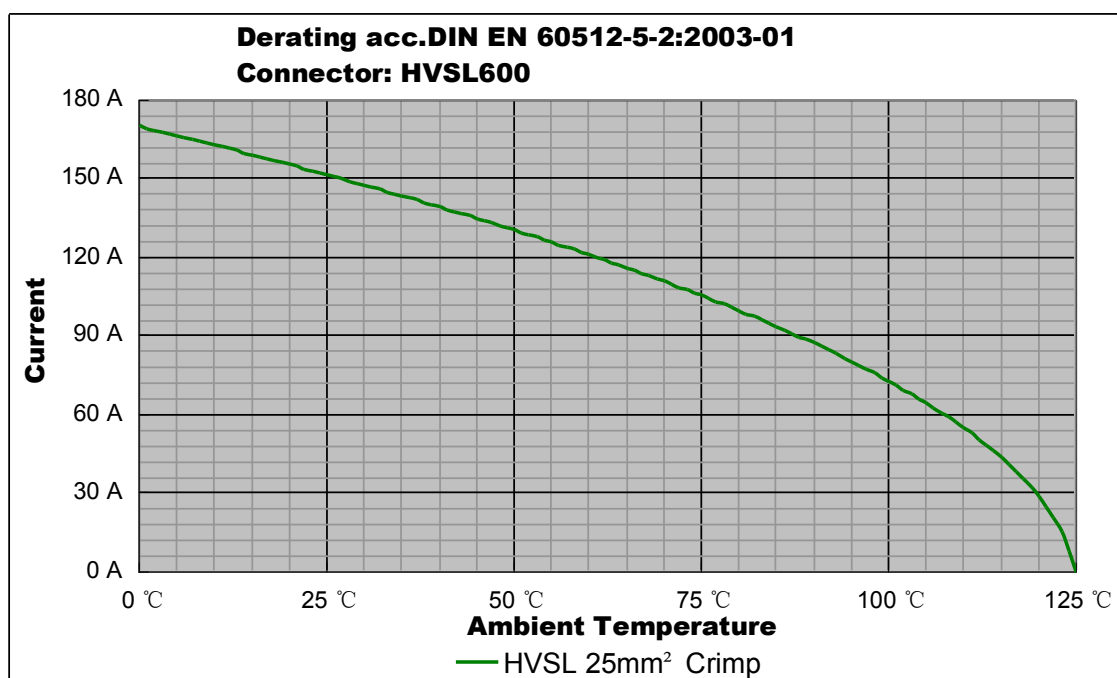
## HOW TO ORDER: RECEPTACLE

|                                     |                                                                                                            |         |    |   |   |    |  |  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|---------|----|---|---|----|--|--|
|                                     |                                                                                                            | HVSL600 | 02 | 1 | A | 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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |         |    |   |   |    |  |  |
| <b>Cable size:</b>                  | <b>25:</b> 25mm <sup>2</sup><br><b>H6:</b> OT terminal                                                     |         |    |   |   |    |  |  |

## HVSL 600 | Temperature Rise



## HVSL 600 | Derating Curve



Remark: tests carried out on the complete connector.

## Excel|Mate Eco (HVSL630 2 POSITION CONNECTOR)


**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 xEV devices' equipment.

**KEY FEATURES**

Integrated internal HVIL

Current rating up to 40A

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67 (mated), IP6K9K

Touch-proof, IP2XB

Multiple coding positions

CPA available

**MECHANICAL**

|                                |                                      |
|--------------------------------|--------------------------------------|
| Durability                     | ≥ 50 mating cycles                   |
| Wire range                     | 4 to 6 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                | 800V DC                            |
| Rated current                | 40A Max @ ambient temperature 70°C |
| Insulator resistance         | > 200MΩ                            |
| Dielectric withstand voltage | 3000V AC                           |
| Shielding                    | 360° from wire to device           |

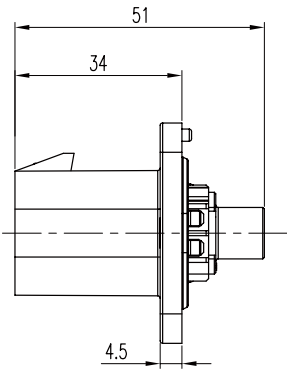
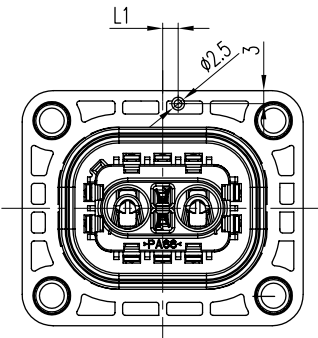
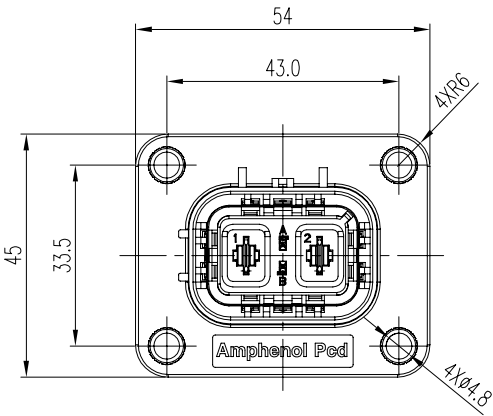
**ENVIRONMENTAL**

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

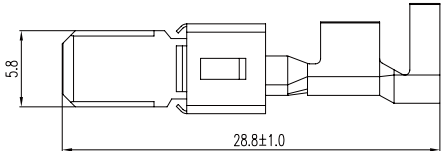
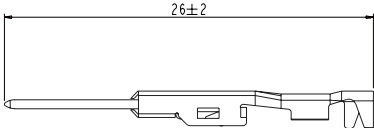
**MATERIAL**

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

RECEPTACLE

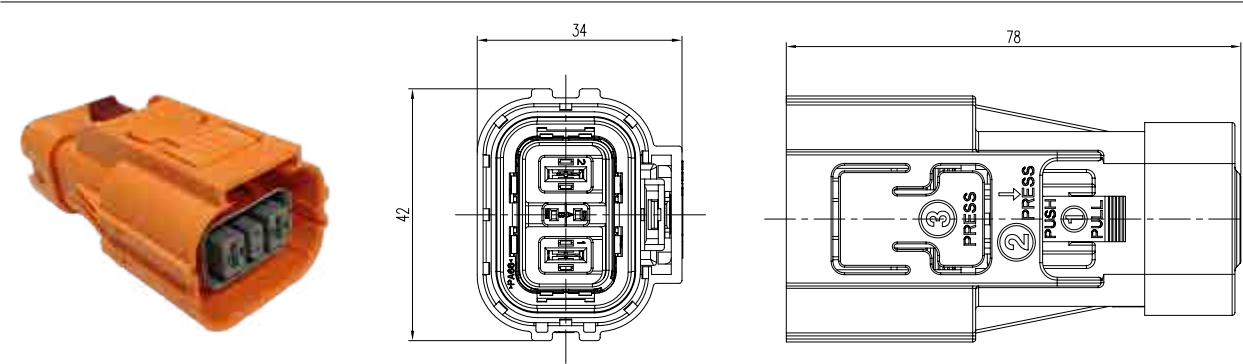


CONTACTS

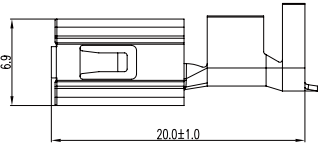
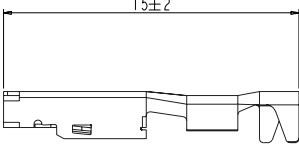
| All connectors do not include contacts. Please order them separately (ref: P/N below) |                                                                                      |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| For HVSL630022XX06                                                                    | For HVSL630022XX06                                                                   |
| Pin contact: crimping                                                                 | Pin signal contact (HVIL)                                                            |
| P/N: C310003622                                                                       | P/N: C310003613                                                                      |
|    |  |
| 4 to 6mm <sup>2</sup> unshielded wire                                                 | 0.5mm <sup>2</sup> unshielded wire                                                   |



PLUG



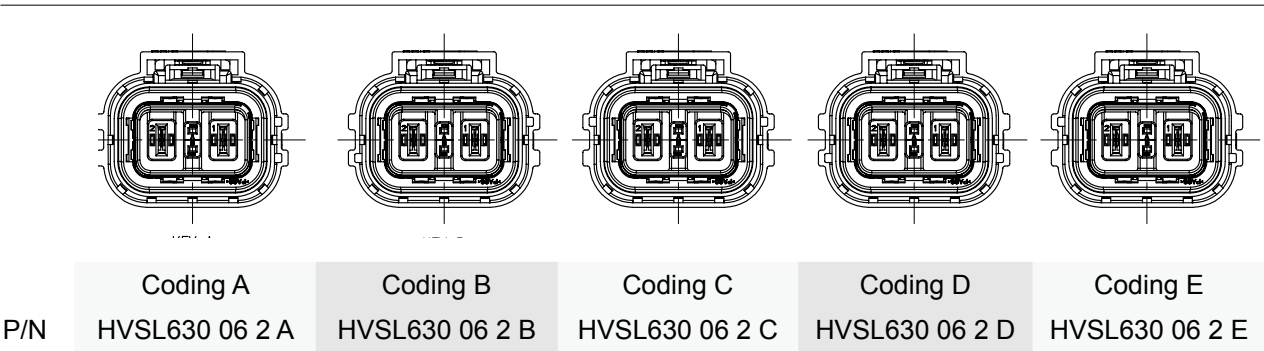
CONTACTS

| All connectors do not include contacts. Please order them separately (ref: P/N below) |                                                                                      |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| For HVSL630062XX06XX                                                                  | For HVSL630062XX06XX                                                                 |
| Socket contact                                                                        | Socket signal contact (HVIL)                                                         |
| P/N: C310003623                                                                       | P/N: C310003614                                                                      |
|    |  |
| 4 to 6mm <sup>2</sup> shielded wire                                                   | 0.5mm <sup>2</sup> unshielded wire                                                   |

Sealing gasket for HVSL630062XX06XX:

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| 12                    | 11                    | 10                    |
| P/N: C270003607       | P/N: C2700036071      | P/N: C2700036072      |
| 12 ± 0.2 mm (Wire OD) | 11 ± 0.2 mm (Wire OD) | 10 ± 0.2 mm (Wire OD) |

INSERT ORIENTATIONS



## HOW TO ORDER: PLUG

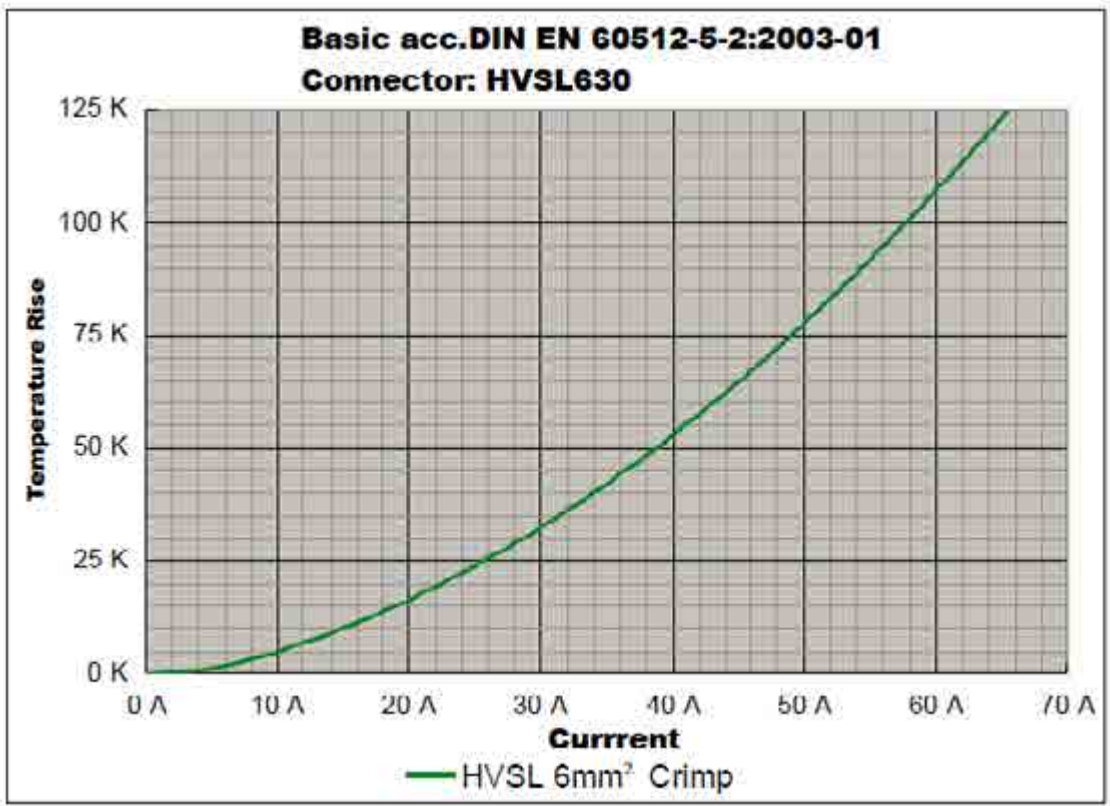
|                                     |                                                                                                            | HVSL630 | 06 | 2 | A | 0 | 04 | 10 |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|---------|----|---|---|---|----|----|
| <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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |         |    |   |   |   |    |    |
| <b>Interlock:</b>                   | <b>0:</b> Without interlock<br><b>1:</b> With interlock                                                    |         |    |   |   |   |    |    |
| <b>Cable size:</b>                  | <b>04:</b> 4mm <sup>2</sup><br><b>06:</b> 6mm <sup>2</sup><br><b>25:</b> 25mm <sup>2</sup>                 |         |    |   |   |   |    |    |
| <b>Sealing gasket:</b>              | <b>10:</b> 10mm (Wire OD)<br><b>11:</b> 11mm (Wire OD)<br><b>12:</b> 12mm (Wire OD)                        |         |    |   |   |   |    |    |

## HOW TO ORDER: RECEPTACLE

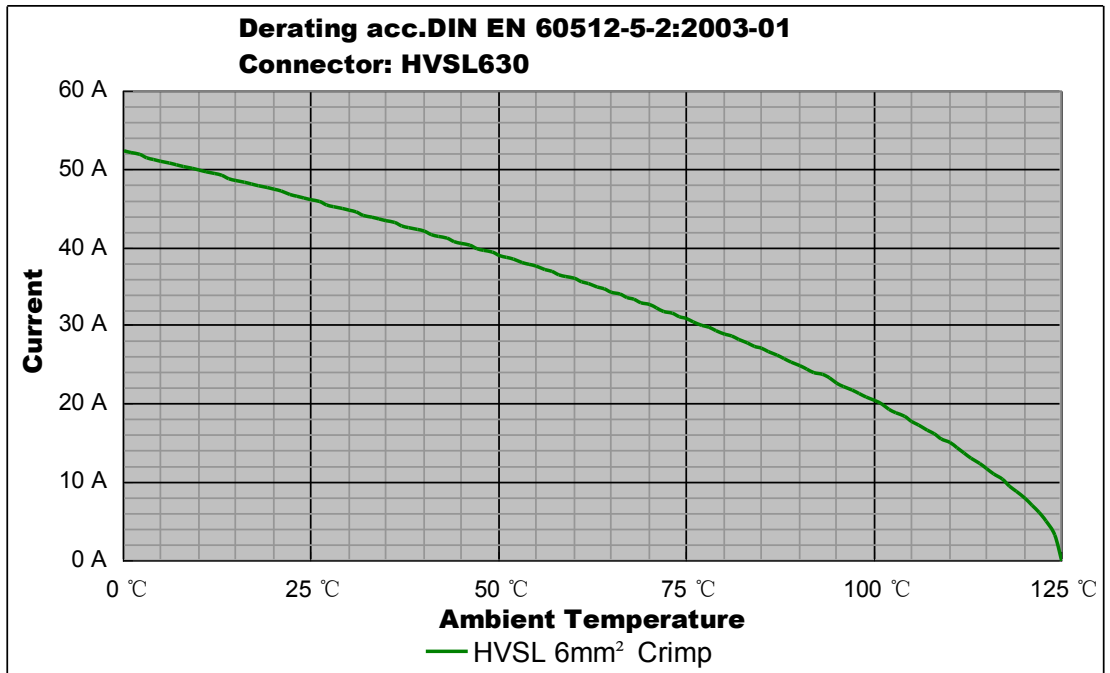
|                                     |                                                                                                            | HVSL630 | 02 | 2 | A | 04 |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|---------|----|---|---|----|
| <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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |         |    |   |   |    |
| <b>Cable size:</b>                  | <b>04:</b> 4mm <sup>2</sup><br><b>06:</b> 6mm <sup>2</sup>                                                 |         |    |   |   |    |

# CHARTS (HVSL 630)

## HVSL 630 | Temperature Rise



## HVSL 630 | Derating Curve



Remark: tests carried out on the complete connector.

## 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 xEV devices' equipment.

### KEY FEATURES

Integrated internal HVIL

Current rating up to 40A

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67 (mated), IP6K9K

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) |
| Insertion and extraction force | < 100N                                                                    |
| Connection type                | Crimping                                                                  |
| Latching style                 | Two stage, finger actuated                                                |
| HVIL                           | Integrated                                                                |
| CPA                            | Available                                                                 |

### ELECTRICAL

|                              |                                    |
|------------------------------|------------------------------------|
| Rated voltage                | 800V DC                            |
| Rated current                | 40A Max @ ambient temperature 70°C |
| Insulator resistance         | > 200MΩ                            |
| Dielectric withstand voltage | 3000V AC                           |
| Shielding                    | 360° from wire to device           |

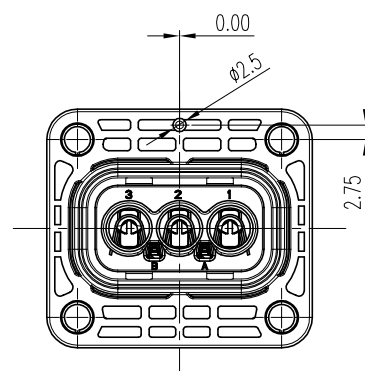
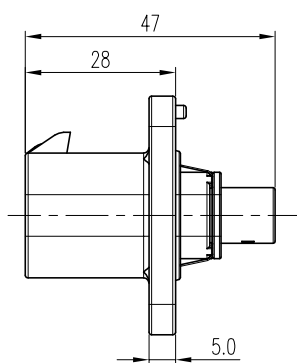
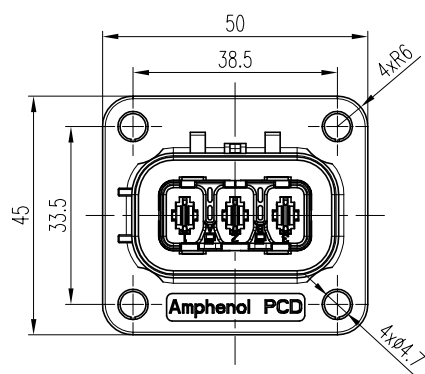
### ENVIRONMENTAL

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

### MATERIAL

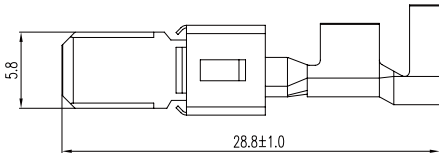
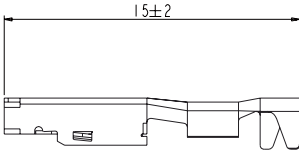
|           |                                      |
|-----------|--------------------------------------|
| Terminals | Copper/copper alloy with tin plating |
| Housing   | PA66 + GF                            |

RECEPTACLE HVSL633

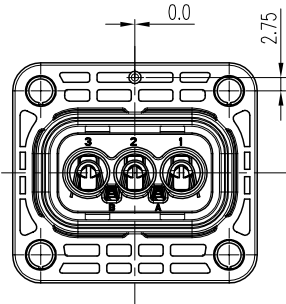
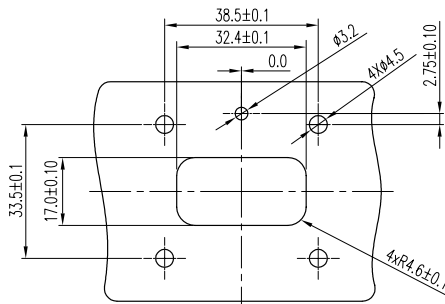
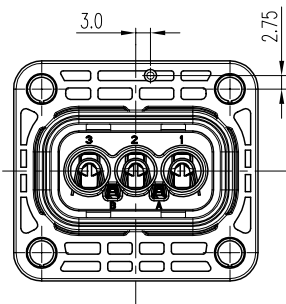
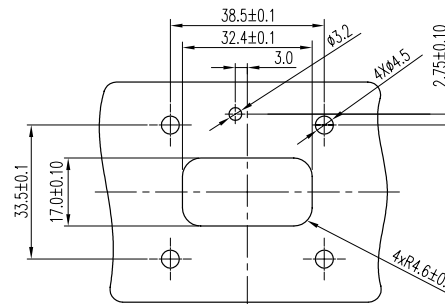
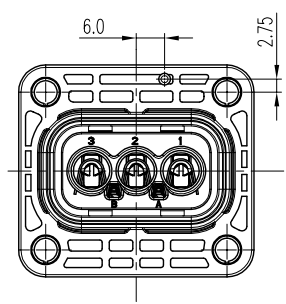
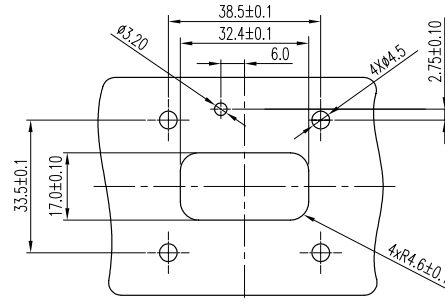
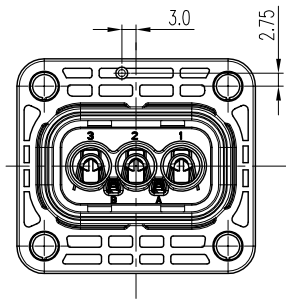
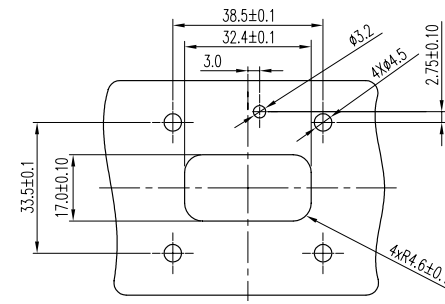
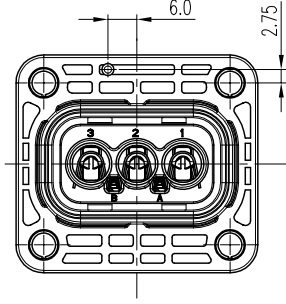
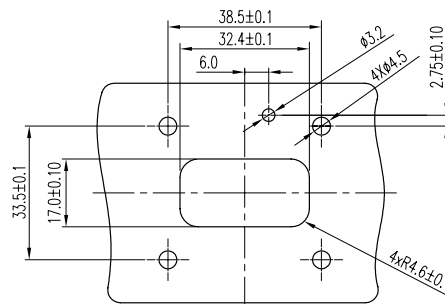


CONTACTS

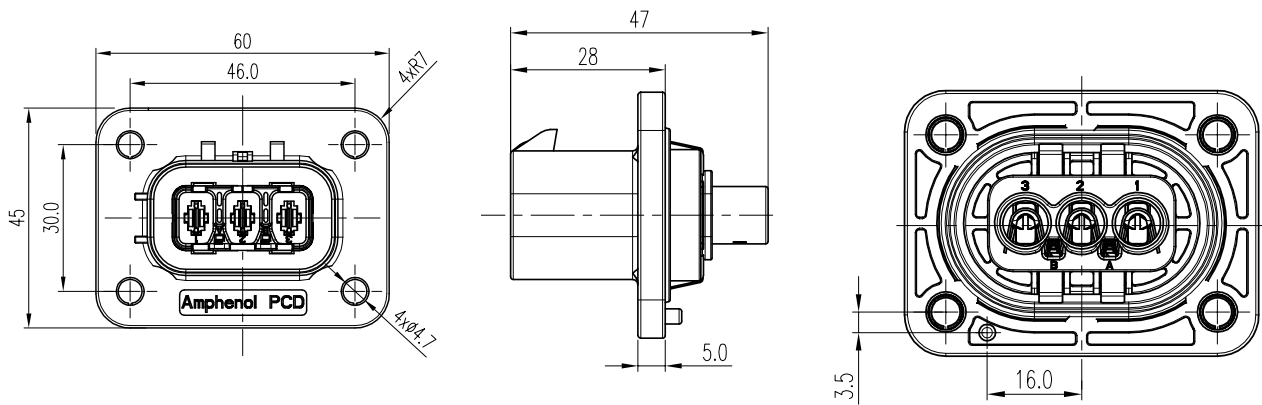
All connectors do not include contacts. Please order them separately (ref: P/N below)

| Pin contact: crimping                                                               | Socket signal contact (HVIL)                                                         |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| P/N: C310003622                                                                     | P/N: C310003614                                                                      |
|  |  |
| 4 to 6mm <sup>2</sup> unshielded wire                                               | 0.5mm <sup>2</sup> unshielded wire                                                   |

PANEL MOUNTING DIMENSION

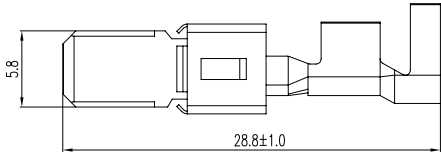
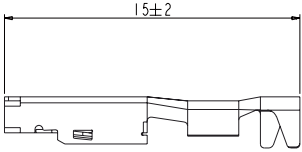
| PART NUMBER   | INSERT ORIENTATION                                                                  | PANEL MOUNTED DIMENSION                                                              |
|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| HVSL633 023 A |    |    |
| HVSL633 023 B |   |   |
| HVSL633 023 C |  |  |
| HVSL633 023 D |  |  |
| HVSL633 023 E |  |  |

RECEPTACLE HVSLC633

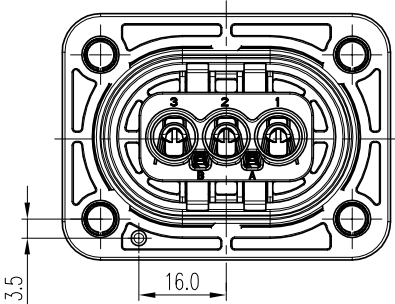
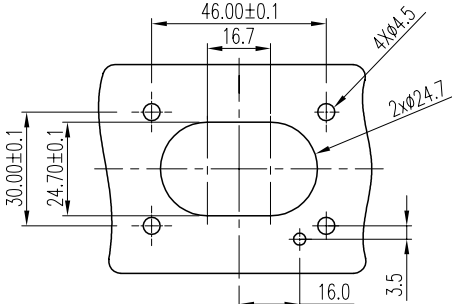
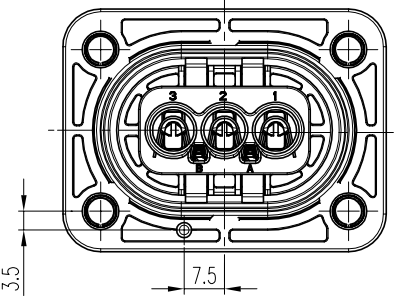
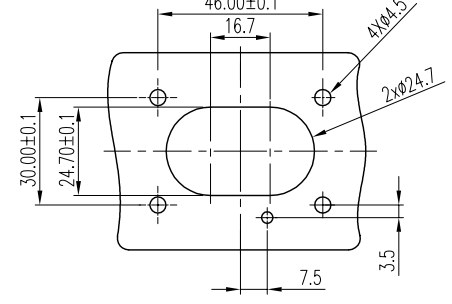
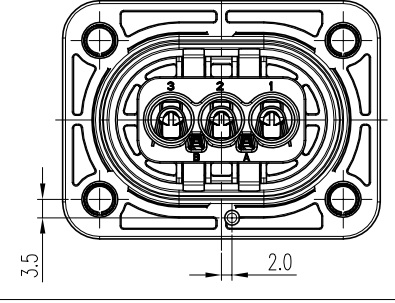
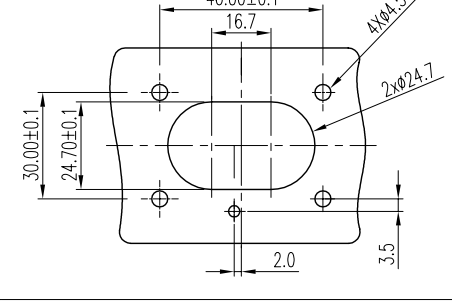
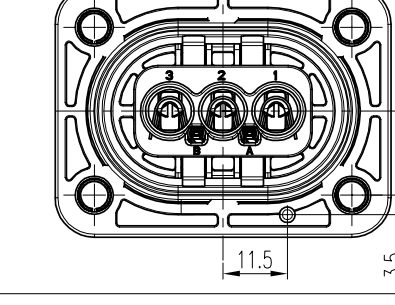
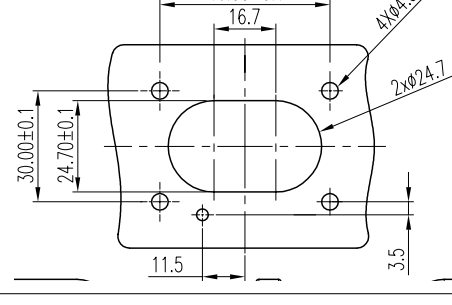


CONTACTS

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

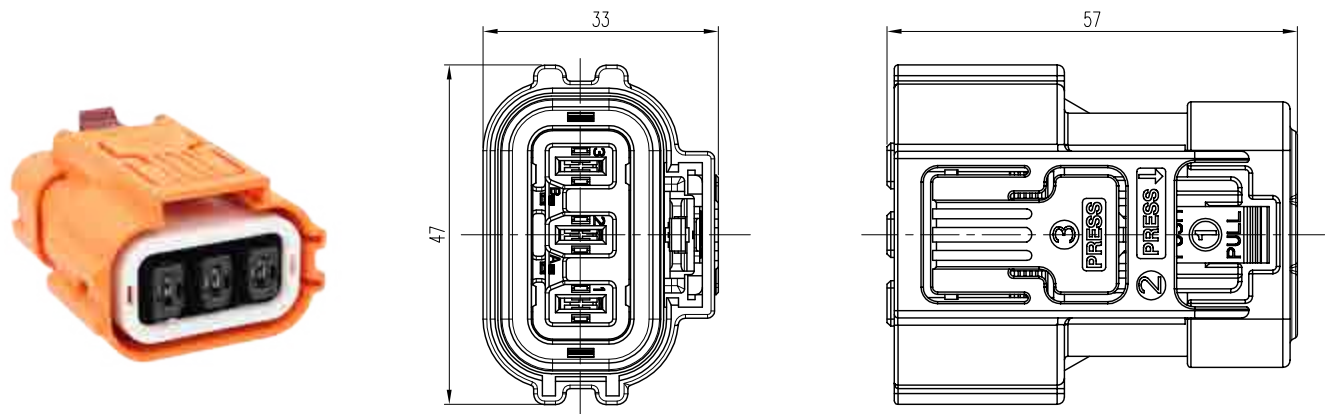
| Pin contact: crimping                                                               | Socket signal contact (HVIL)                                                         |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| P/N: C310003622                                                                     | P/N: C310003614                                                                      |
|  |  |
| 4 to 6mm <sup>2</sup> unshielded wire                                               | 0.5mm <sup>2</sup> unshielded wire                                                   |

PANEL MOUNTING DIMENSION

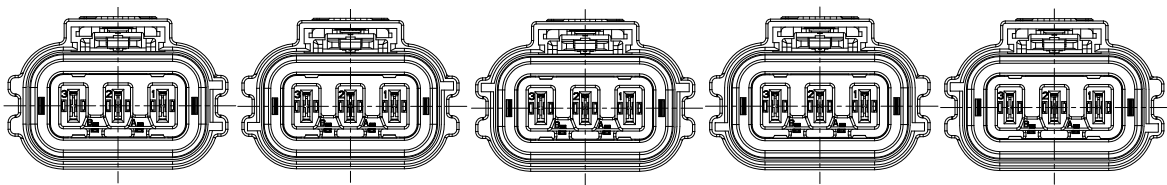
| PART NUMBER    | INSERT ORIENTATION                                                                  | PANEL MOUNTED DIMENSION                                                              |
|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| HVSLC633 023 A |    |    |
| HVSLC633 023 B |   |   |
| HVSLC633 023 C |  |  |
| HVSLC633 023 D |  |  |

Excel|Mate Eco  
(HVSL 633)

PLUG

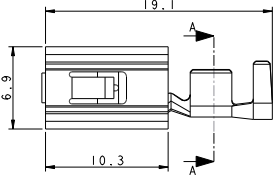
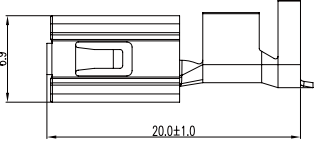


INSERT ORIENTATIONS



|     | 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: C310003623                                                                     | Integrated, no need to buy. |
|    |  |                             |
| 2.5mm² shielded wire                                                                  | 4 to 6mm² shielded wire                                                             |                             |

## 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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |         |    |   |   |   |    |   |
| <b>Interlock:</b>                   | <b>0:</b> Without interlock<br><b>1:</b> With interlock                                                    |         |    |   |   |   |    |   |
| <b>Cable size:</b>                  | <b>03:</b> 2.5mm <sup>2</sup><br><b>04:</b> 4mm <sup>2</sup><br><b>06:</b> 6mm <sup>2</sup>                |         |    |   |   |   |    |   |
| <b>Wire type:</b>                   | <b>I:</b> Individually shielded wire                                                                       |         |    |   |   |   |    |   |

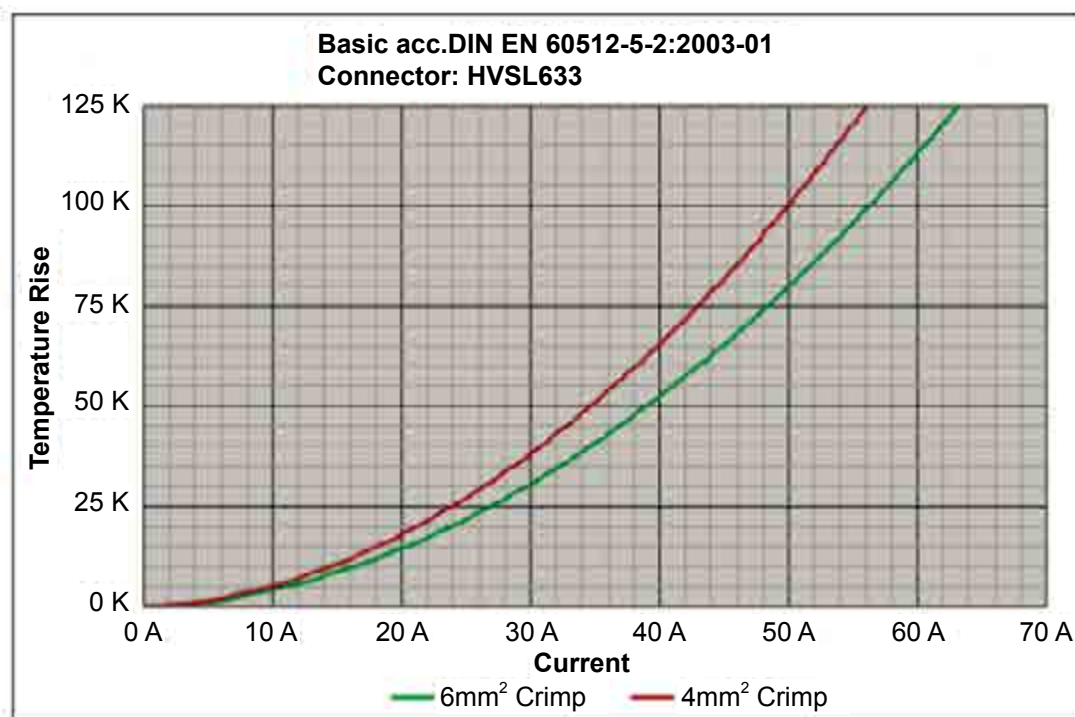
## HOW TO ORDER: RECEPTACLES

|                                     |                                                                                                            |         |    |   |   |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|---------|----|---|---|
|                                     |                                                                                                            | 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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |         |    |   |   |

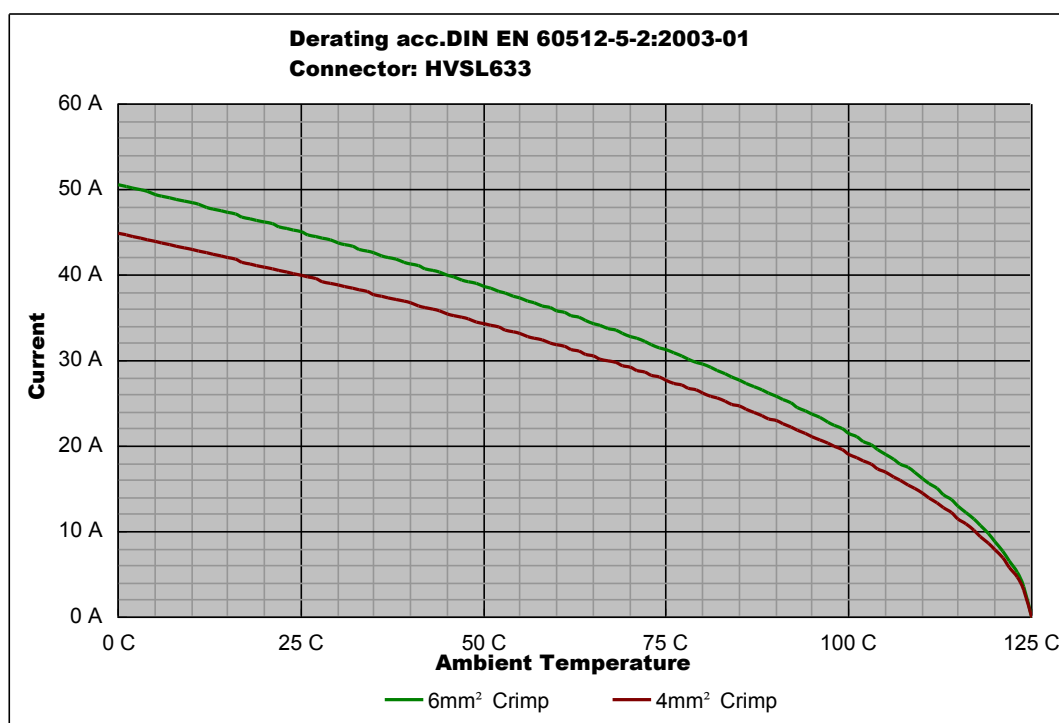
|                                     |                                                                                      |          |    |   |   |
|-------------------------------------|--------------------------------------------------------------------------------------|----------|----|---|---|
|                                     |                                                                                      | 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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D |          |    |   |   |

# CHARTS (HVSL 633)

## HVSL 633 | Temperature Rise



## HVSL 633 | Derating Curve



Remark: tests carried out on the complete connector.

## Excel|Mate Eco (HVSL280 3 POSITION CONNECTOR)


**HVSL280**

**HVSL280** is a 3 position connector with plastic housing, high voltage , integrated HVIL. It provides a current carrying capacity from 16 to 23A and 2.5 to 4mm<sup>2</sup> crimping cable.

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

**KEY FEATURES**

Integrated internal HVIL

Current rating up to 23A

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67 (mated), IP6K9K

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                | 800V DC                            |
| Rated current                | 23A Max @ ambient temperature 70°C |
| Insulator resistance         | > 200MΩ                            |
| Dielectric withstand voltage | 3000V AC                           |
| Shielding                    | 360° from wire to device           |

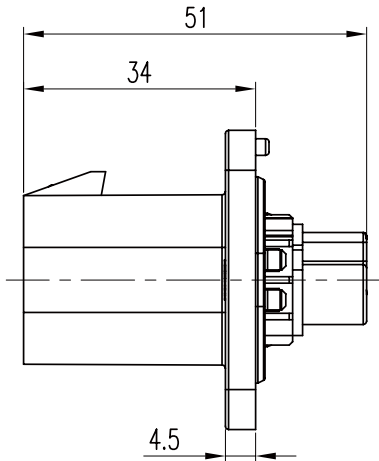
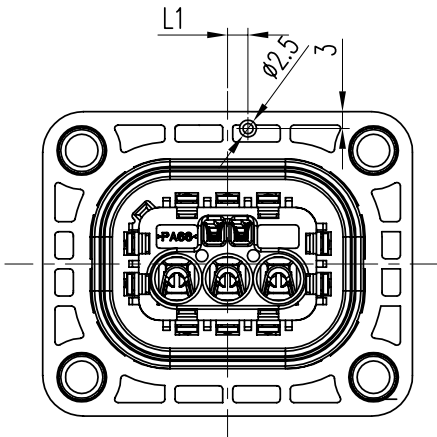
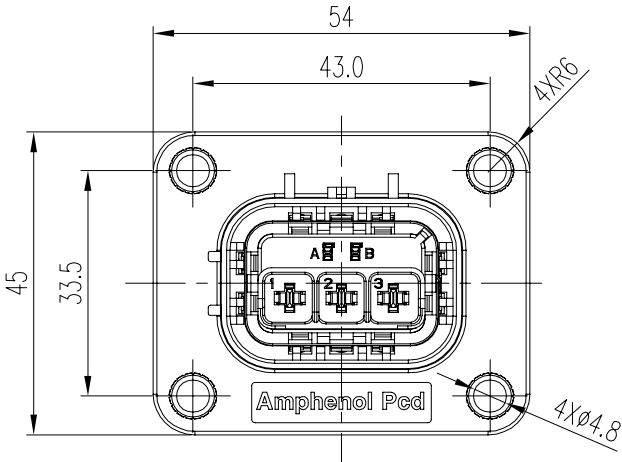
**ENVIRONMENTAL**

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

**MATERIAL**

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

RECEPTACLE

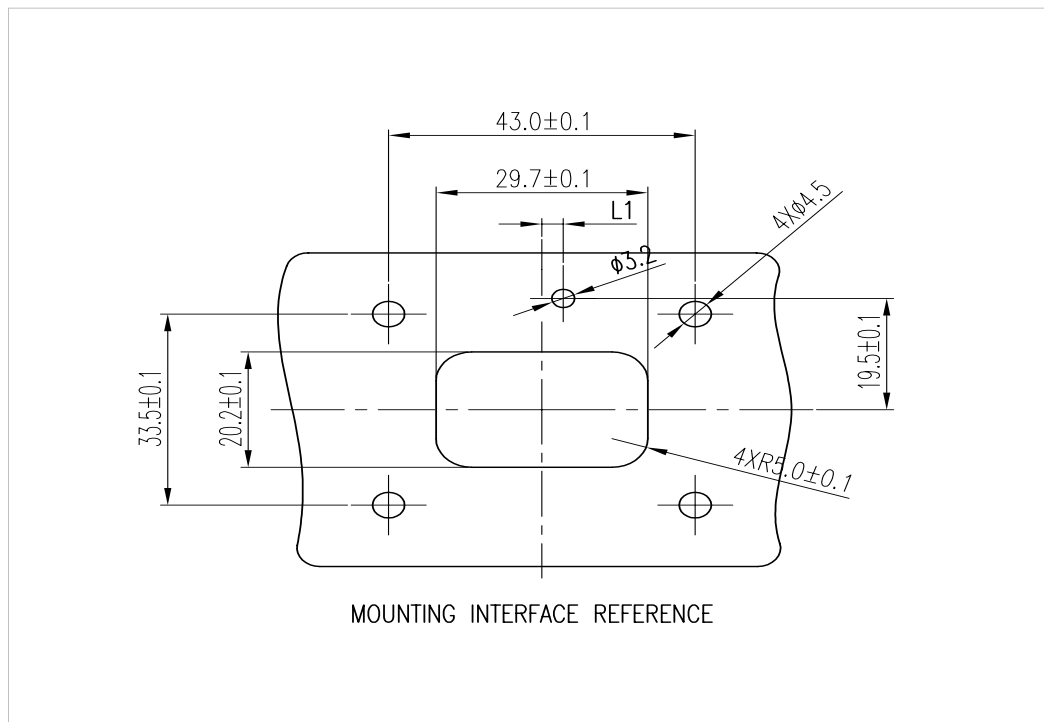


CONTACTS

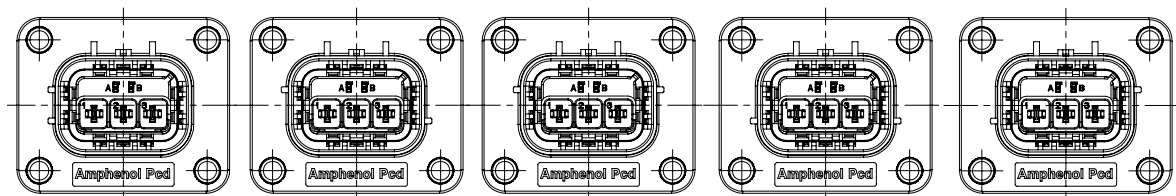
| All connectors do not include contacts. Please order them separately (ref: P/N below) |                                    |
|---------------------------------------------------------------------------------------|------------------------------------|
| For HVSL280023XX04                                                                    | For HVSL280023XX04                 |
| Pin contact: crimping                                                                 | Pin signal contact (HVIL)          |
| P/N: C310003611                                                                       | P/N: C310003613                    |
|                                                                                       |                                    |
| 2.5 to 4mm <sup>2</sup> unshielded wire                                               | 0.5mm <sup>2</sup> unshielded wire |

## PANEL MOUNTING DIMENSIONS

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



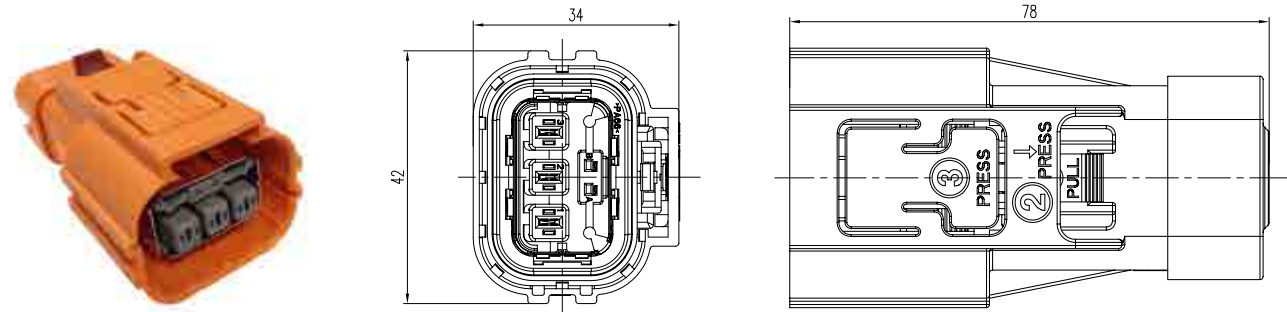
## INSERT ORIENTATIONS



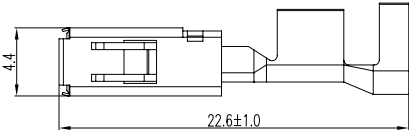
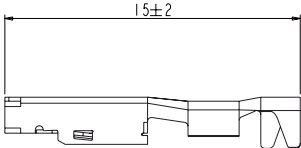
|     | Coding A       | Coding B       | Coding C       | Coding D       | Coding E       |
|-----|----------------|----------------|----------------|----------------|----------------|
| P/N | HVSL280 02 3 A | HVSL280 02 3 B | HVSL280 02 3 C | HVSL280 02 3 D | HVSL280 02 3 E |

Excel|Mate Eco  
(HVSL 280)

PLUG



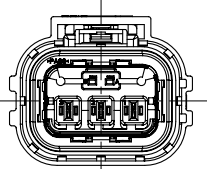
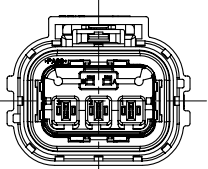
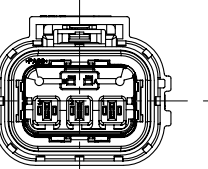
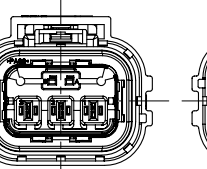
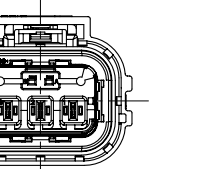
CONTACTS

| All connectors do not include contacts. Please order them separately (ref: P/N below) |                                                                                      |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| For HVSL280063XX04XX                                                                  | For HVSL280063XX04XX                                                                 |
| Socket contact                                                                        | Socket signal contact (HVIL)                                                         |
| P/N: C310003612                                                                       | P/N: C310003614                                                                      |
|    |  |
| 2.5 to 4mm <sup>2</sup> shielded wire                                                 | 0.5mm <sup>2</sup> unshielded wire                                                   |

Sealing gasket for HVSL280063XX04XX:

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| 12                    | 11                    | 10                    |
| P/N: C270003607       | P/N: C2700036071      | P/N: C2700036072      |
| 12 ± 0.2 mm (Wire OD) | 11 ± 0.2 mm (Wire OD) | 10 ± 0.2 mm (Wire OD) |

INSERT ORIENTATIONS

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

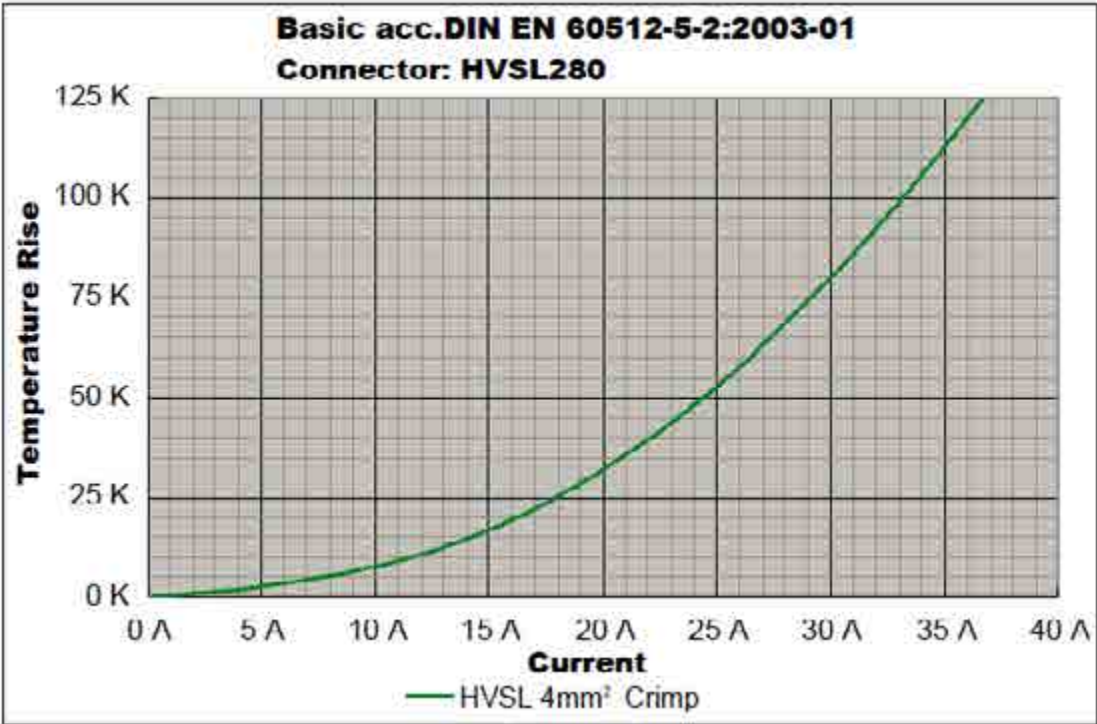
## HOW TO ORDER: PLUG

|                                     | HVSL280                                                                                                    | 06 | 3 | A | 0 | 03 | 10 |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|----|---|---|---|----|----|
| <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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |    |   |   |   |    |    |
| <b>Interlock:</b>                   | <b>0:</b> Without interlock<br><b>1:</b> With interlock                                                    |    |   |   |   |    |    |
| <b>Cable size:</b>                  | <b>03:</b> 2.5mm <sup>2</sup><br><b>04:</b> 4mm <sup>2</sup>                                               |    |   |   |   |    |    |
| <b>Sealing gasket:</b>              | <b>10:</b> 10mm (Wire OD)<br><b>11:</b> 11mm (Wire OD)<br><b>12:</b> 12mm (Wire OD)                        |    |   |   |   |    |    |

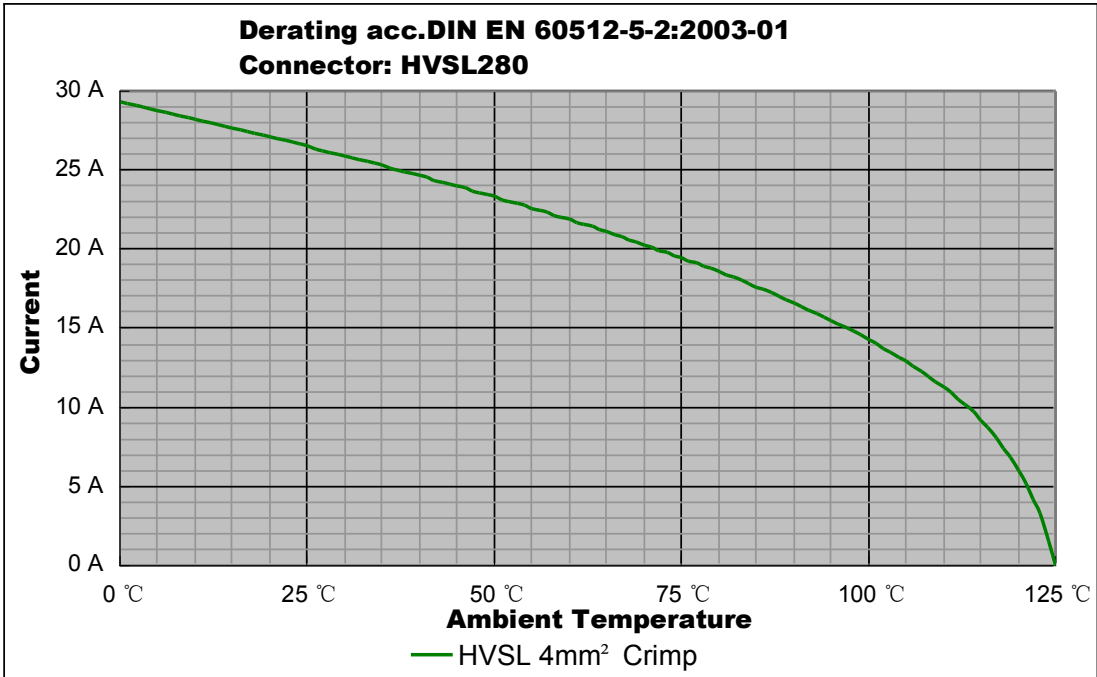
## HOW TO ORDER: RECEPTACLE

|                                     | HVSL280                                                                                                    | 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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |    |   |   |

HVSL 280 | Temperature Rise



HVSL 280 | Derating Curve



Remark: tests carried out on the complete connector.

## Excel|Mate Eco (HVSL282 2 PIN connector)


**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 xEV device applications.

**KEY FEATURES**

Integrated internal HVIL

Current rating up to 32A

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67 (mated), IP6K9K

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                | 800V DC                            |
| Rated current                | 32A Max @ ambient temperature 70°C |
| Insulator resistance         | > 200MΩ                            |
| Dielectric withstand voltage | 3000V AC                           |
| Shielding                    | 360° from wire to device           |

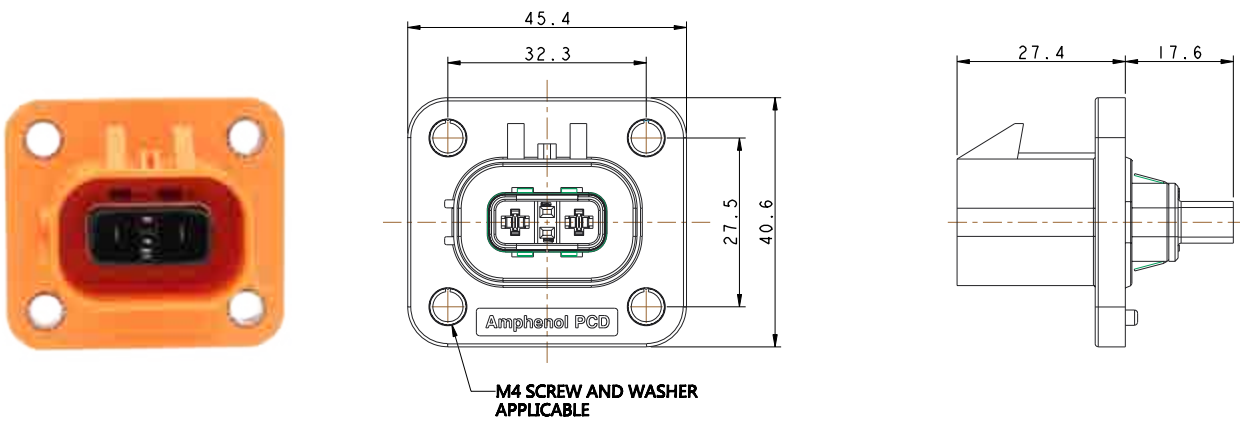
**ENVIRONMENTAL**

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

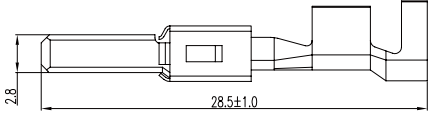
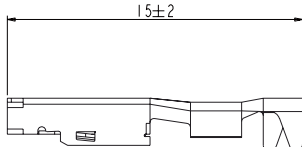
**MATERIAL**

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

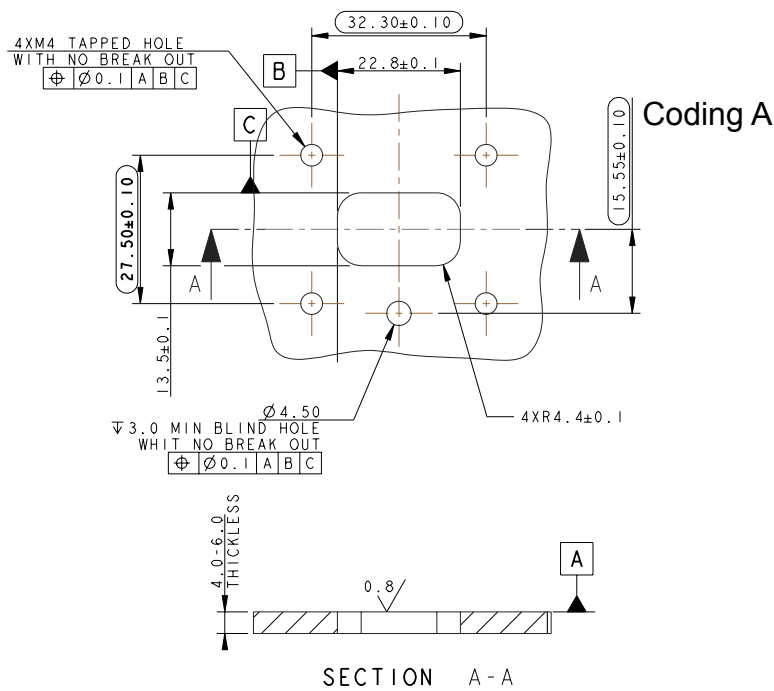
RECEPTACLE



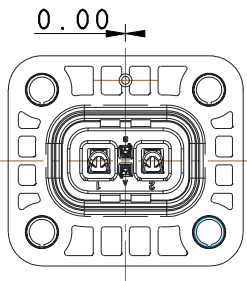
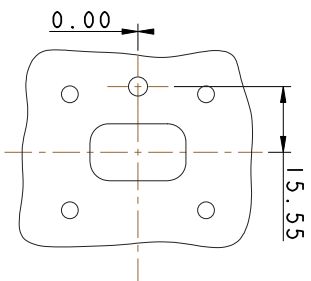
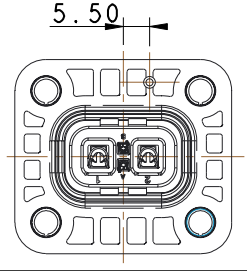
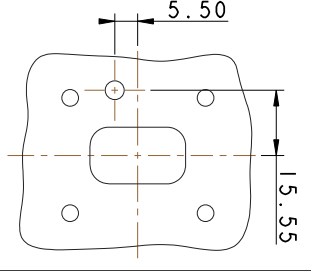
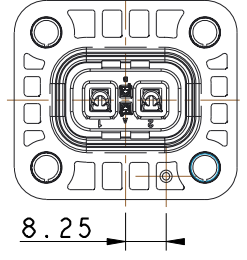
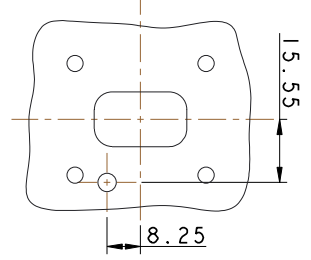
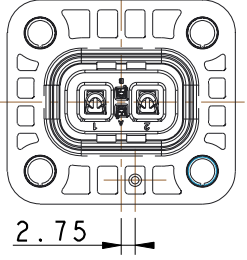
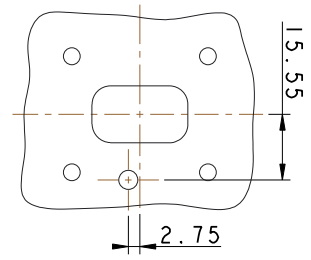
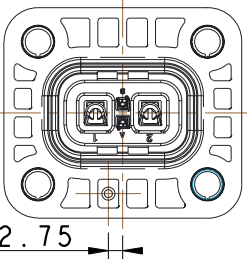
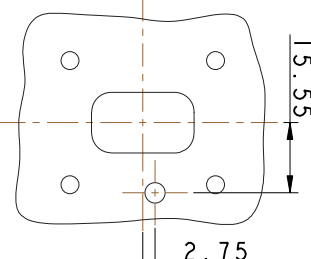
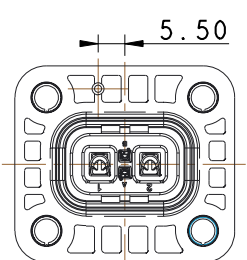
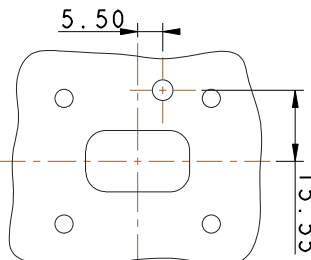
CONTACTS

| All connectors do not include contacts. Please order them separately (ref: P/N below) |                                                                                      |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Pin contact: crimping                                                                 | Socket signal contact (HVIL)                                                         |
| P/N: C310003611                                                                       | P/N: C310003614                                                                      |
|    |  |
| 2.5 to 4mm <sup>2</sup> unshielded wire                                               | 0.5mm <sup>2</sup> unshielded wire                                                   |

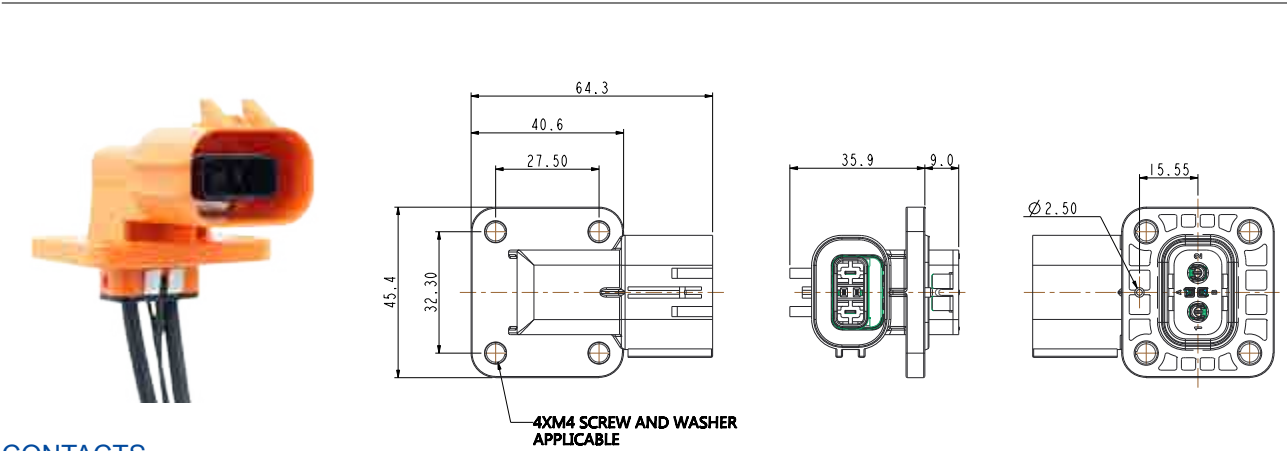
PANEL MOUNTING DIMENSION



# PANEL MOUNTING HOLES POSITIONS

| PART NUMBER    | INSERT ORIENTATION                                                                  | PANEL MOUNTING DIMENSION                                                              |
|----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| HVSL282 02 2 A |    |    |
| HVSL282 02 2 B |    |    |
| HVSL282 02 2 C |   |   |
| HVSL282 02 2 D |  |  |
| HVSL282 02 2 E |  |  |
| HVSL282 02 2 F |  |  |

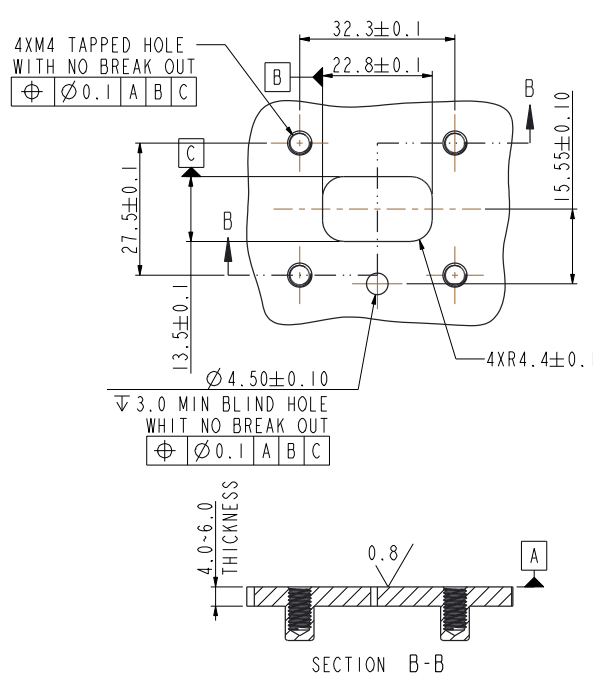
RIGHT-ANGLE RECEPTACLE



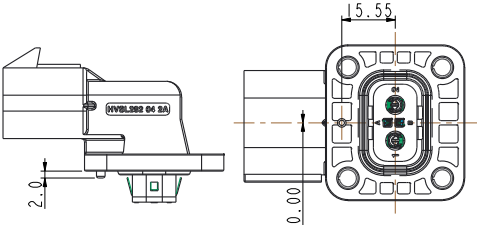
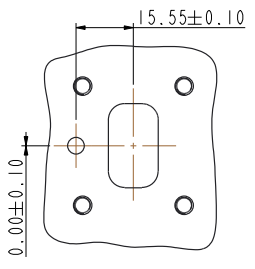
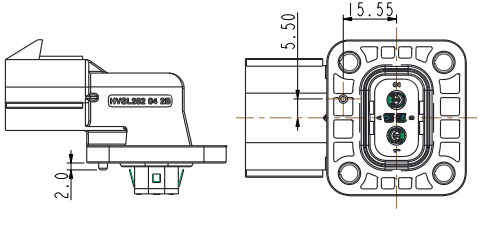
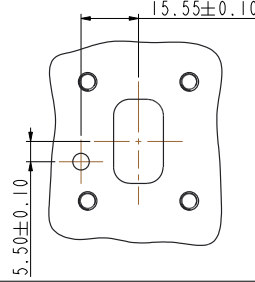
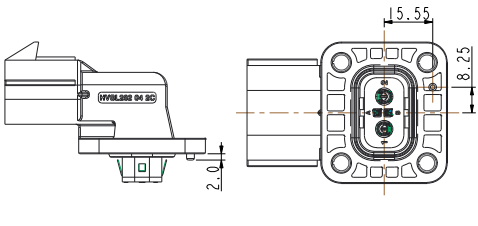
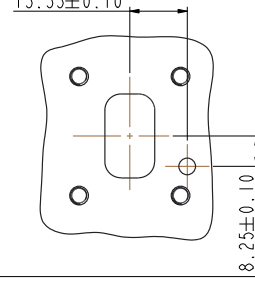
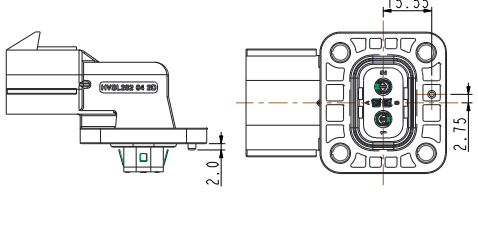
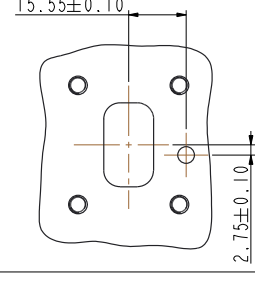
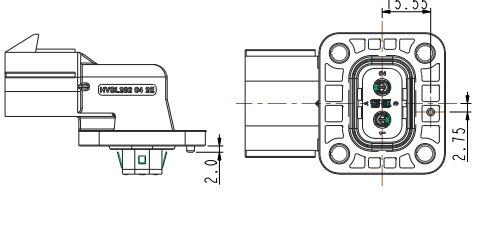
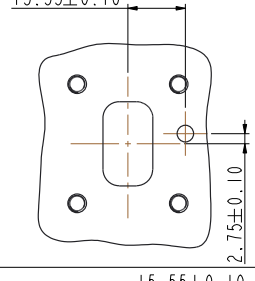
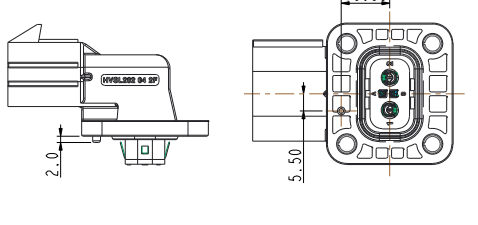
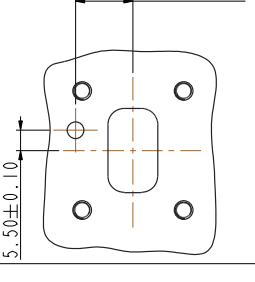
CONTACTS

| All connectors do not include contacts. Please order them separately (ref: P/N below)                                     |                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Socket contact: crimping                                                                                                  | Socket signal contact (HVIL)                                                                      |
| P/N: C310003612                                                                                                           | P/N: C310003614                                                                                   |
| <p>Technical drawing of a socket contact crimping. The dimensions are: overall width 4.4 and overall length 22.6±1.0.</p> | <p>Technical drawing of a socket signal contact (HVIL). The dimension is: overall width 15±2.</p> |
| 2.5 to 4mm <sup>2</sup> shielded wire                                                                                     | 0.5mm <sup>2</sup> unshielded wire                                                                |

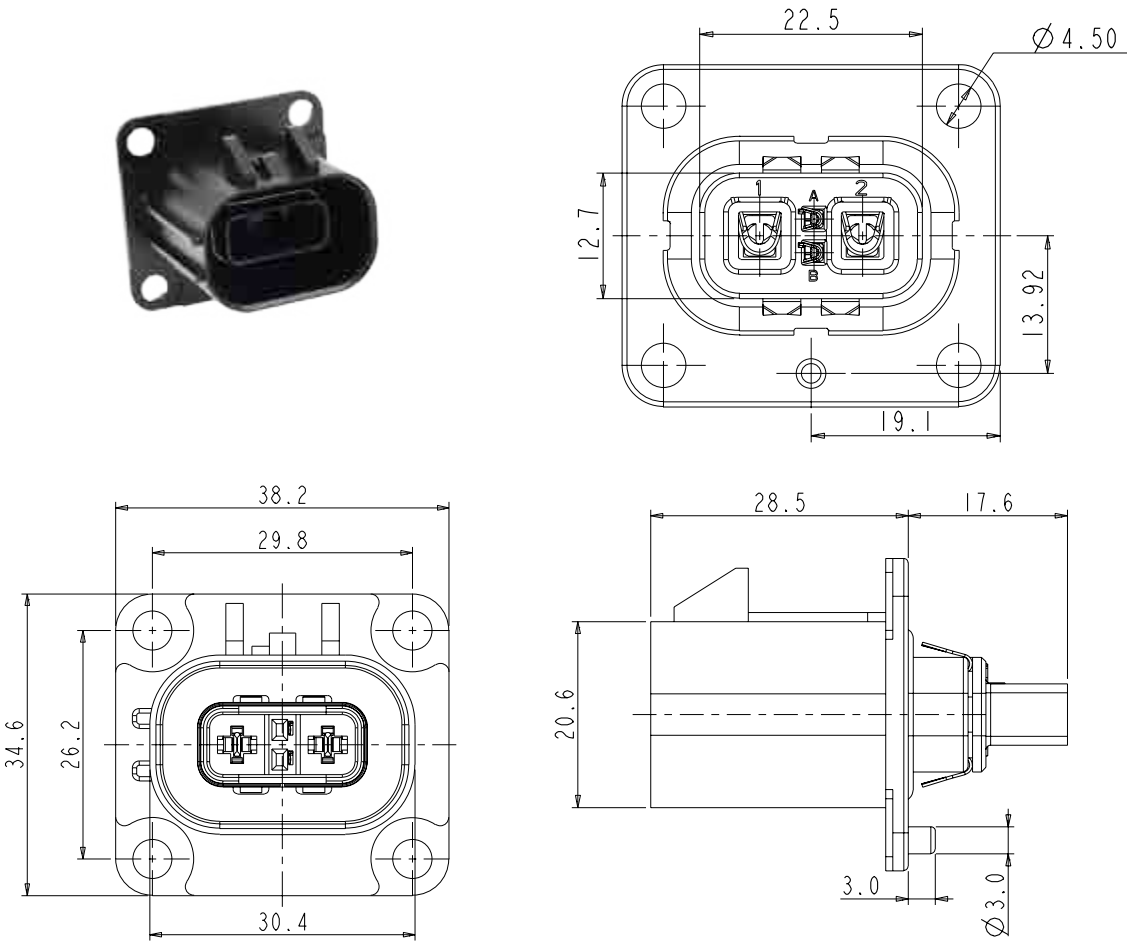
PANEL MOUNTING DIMENSION



# PANEL MOUNTING HOLES POSITIONS

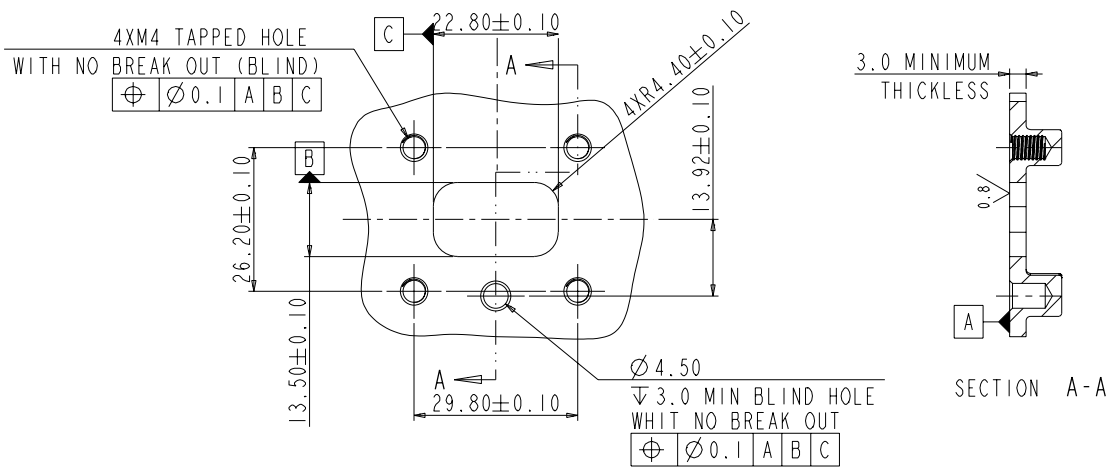
| PART NUMBER     | INSERT ORIENTATION                                                                  | PANEL MOUNTING DIMENSION                                                              |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 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: METAL SHELL

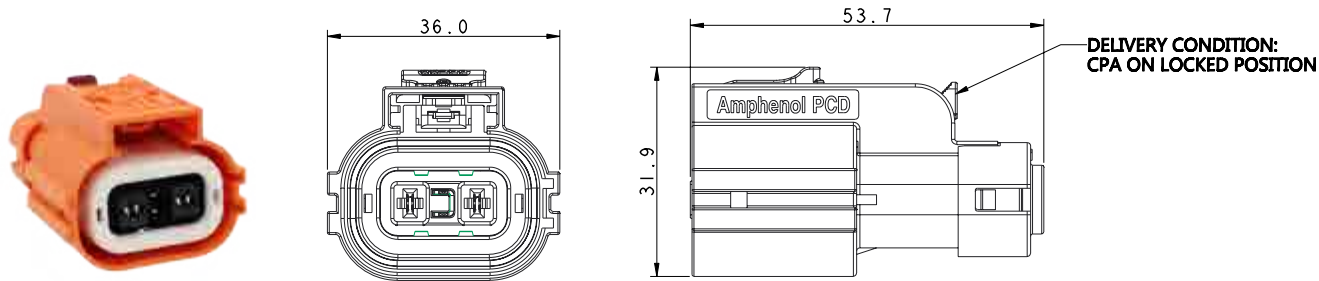


PANEL MOUNTING DIMENSION

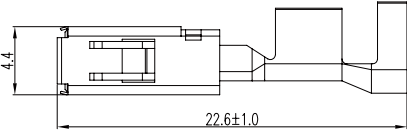
PANEL CUT-OUT REFERENCE



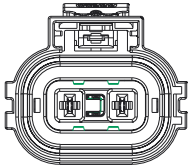
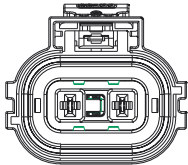
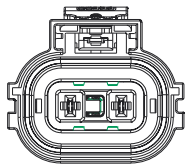
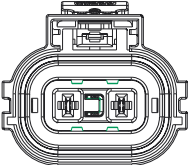
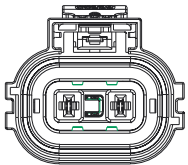
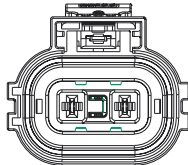
PLUG



CONTACTS

| All connectors do not include contacts. Please order them separately (ref: P/N below) |                             |
|---------------------------------------------------------------------------------------|-----------------------------|
| Socket contact: crimping                                                              | HVIL contacts               |
| P/N: C310003612                                                                       | 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                                                                        |

# HOW TO ORDER (HVSL 282)

## HOW TO ORDER: PLUG

|                                     |                                      |                    |    |   |   |   |    |   |
|-------------------------------------|--------------------------------------|--------------------|----|---|---|---|----|---|
|                                     |                                      | HVSL282            | 06 | 2 | A | 0 | 03 | 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>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: RECEPTACLES

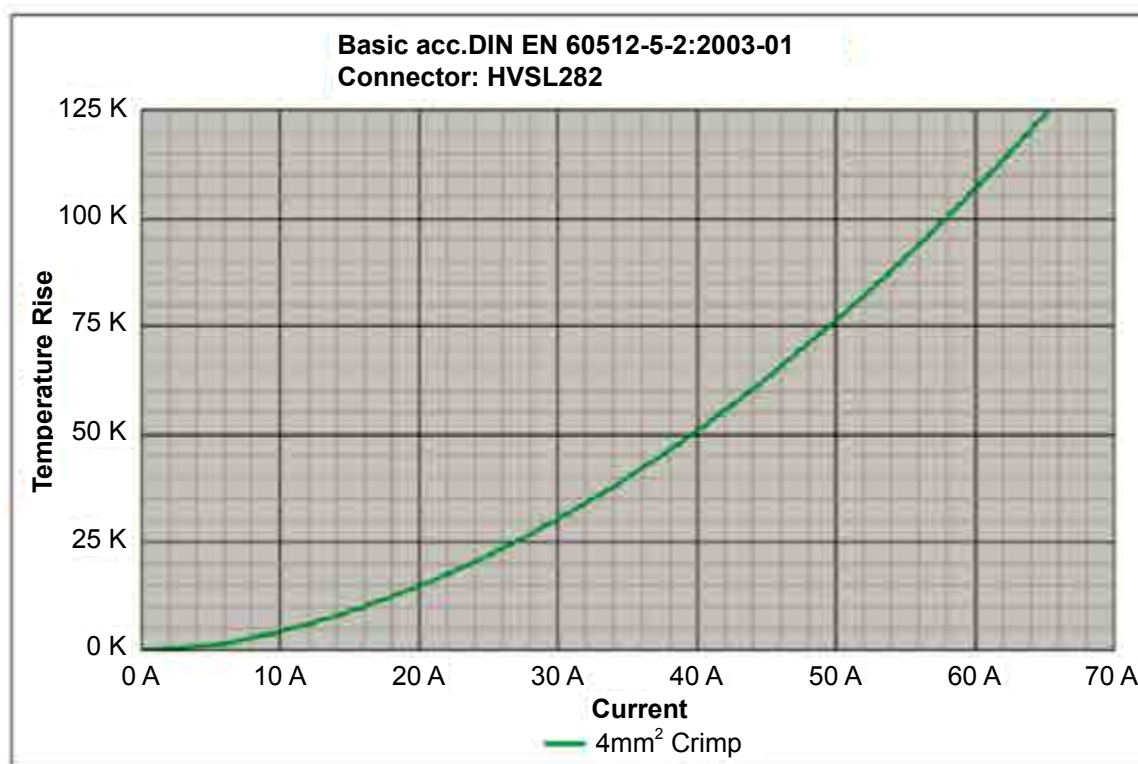
|                                     |                                   |                    |    |   |   |
|-------------------------------------|-----------------------------------|--------------------|----|---|---|
|                                     |                                   | HVSL282            | 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>D:</b> Coding D |    |   |   |
|                                     | <b>B:</b> Coding B                | <b>E:</b> Coding E |    |   |   |
|                                     | <b>C:</b> Coding C                | <b>F:</b> Coding F |    |   |   |

|                                     |                                   |                    |    |   |   |   |
|-------------------------------------|-----------------------------------|--------------------|----|---|---|---|
|                                     |                                   | HVSL282            | 04 | 2 | A | X |
| <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>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               |                    |    |   |   |   |

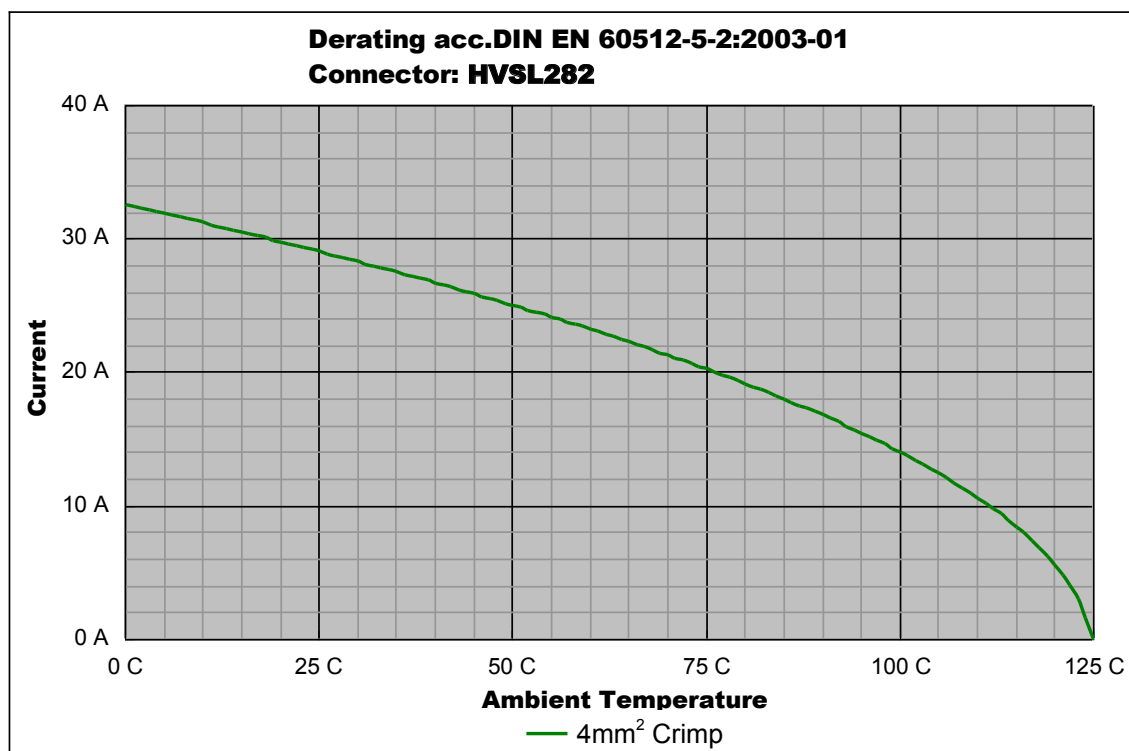
## RECEPTACLE: METAL SHELL

|                                     |                                   |                    |    |   |   |
|-------------------------------------|-----------------------------------|--------------------|----|---|---|
|                                     |                                   | 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                | <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 |    |   |   |

## 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 2 PIN connector)



## HVSL362

**HVSL362** is a 2 position connector 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 xEV device applications.

## KEY FEATURES

Integrated internal HVIL

Current rating up to 60A

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67 (mated), IP6K9K

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                | 800V DC                            |
| Rated current                | 60A Max @ ambient temperature 70°C |
| Insulator resistance         | > 200MΩ                            |
| Dielectric withstand voltage | 3000V AC                           |
| Shielding                    | 360° from wire to device           |

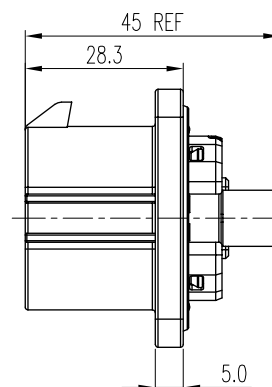
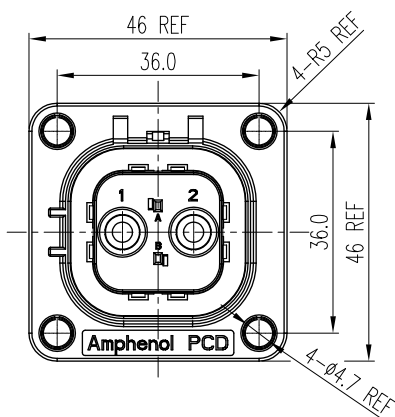
## ENVIRONMENTAL

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

## MATERIAL

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

## RECEPTACLE

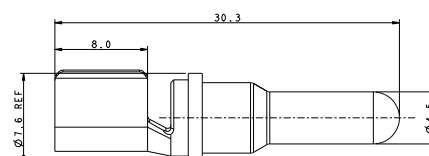


## CONTACTS

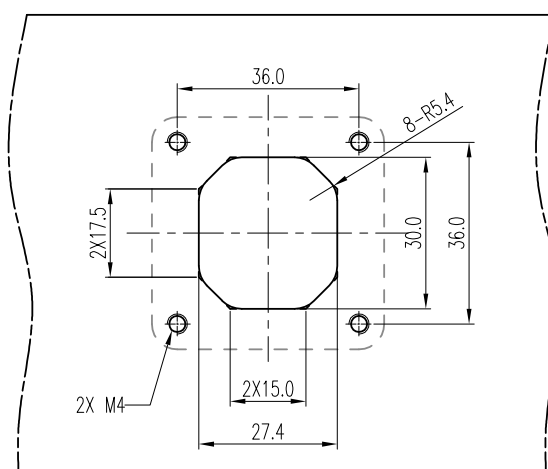
All connectors do not include contacts. Please order them separately (ref: P/N below)

### CONTACTS

| HVIL contacts   | 6 to 10mm <sup>2</sup> |
|-----------------|------------------------|
| P/N: C310003614 | P/N: C3100235011       |

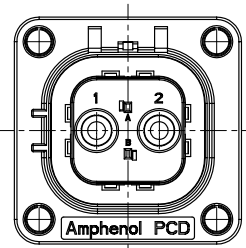
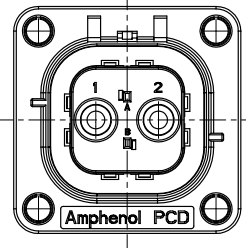
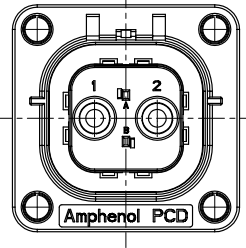
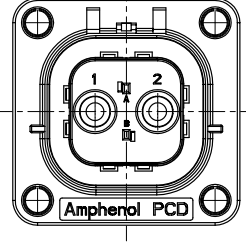
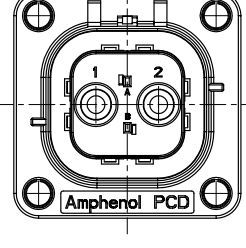


## PANEL MOUNTING DIMENSION

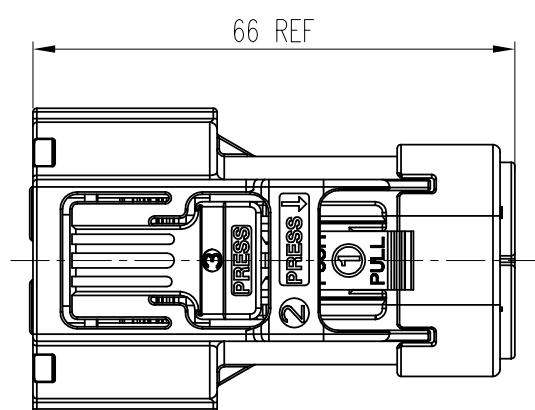
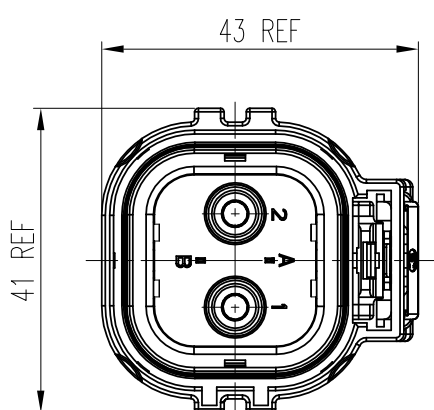


MOUNTING INTERFACE SPECIFICATION  
RECOMMENDED THICKNESS: 3.0mm Min

PANEL MOUNTING HOLES POSITIONS

| PART NUMBER   | INSERT ORIENTATION                                                                   |
|---------------|--------------------------------------------------------------------------------------|
| HVSL362 022 A |    |
| HVSL362 022 B |   |
| HVSL362 022 C |  |
| HVSL362 022 D |  |
| HVSL362 022 E |  |

## PLUG

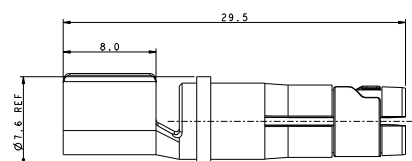


## CONTACTS

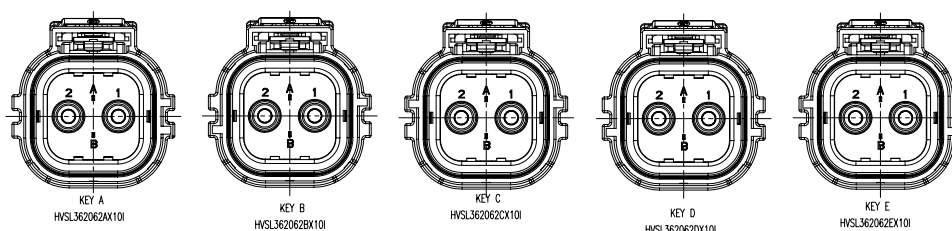
All connectors do not include contacts. Please order them separately (ref: P/N below)

### CONTACTS

| HVIL contacts               | 6 to 10mm <sup>2</sup> |
|-----------------------------|------------------------|
| Integrated, no need to buy. | P/N: C3100235021       |



## 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 |

## HOW TO ORDER (HVSL 362)

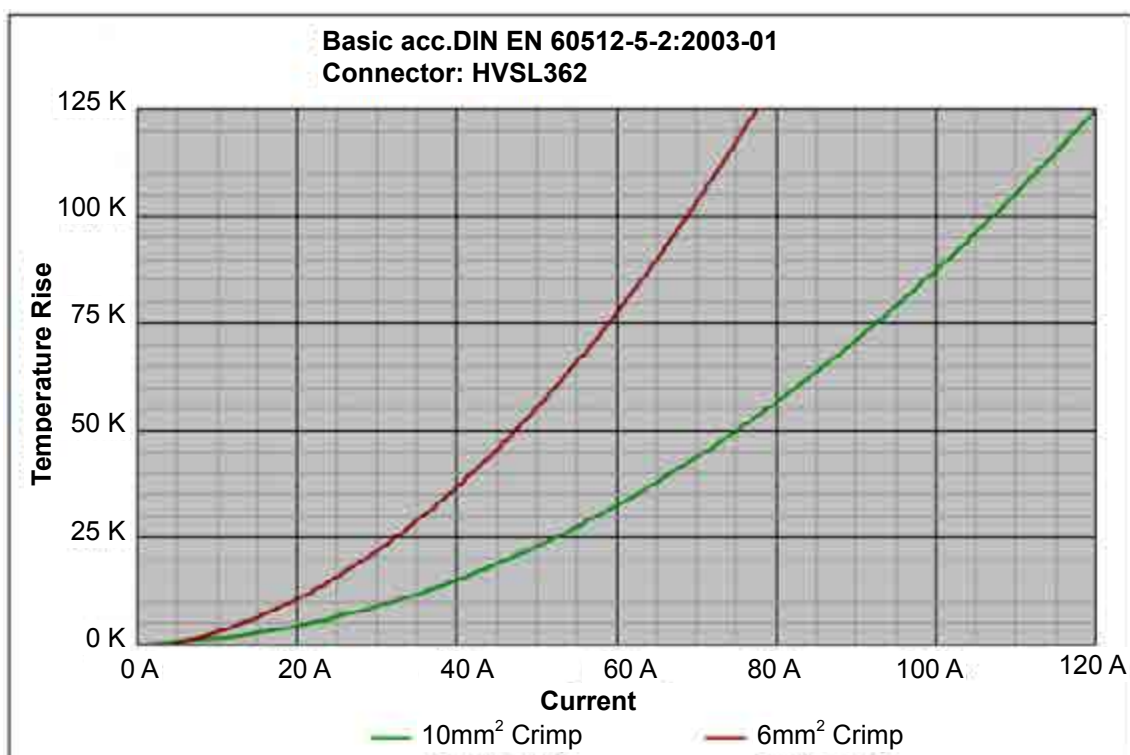
### HOW TO ORDER: PLUG

|                                     |                                                                                                            |         |    |   |   |   |    |   |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|---------|----|---|---|---|----|---|
|                                     |                                                                                                            | 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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |         |    |   |   |   |    |   |
| <b>Interlock:</b>                   | <b>0:</b> Without interlock<br><b>1:</b> With interlock                                                    |         |    |   |   |   |    |   |
| <b>Cable size:</b>                  | <b>06:</b> 6mm <sup>2</sup><br><b>10:</b> 10mm <sup>2</sup>                                                |         |    |   |   |   |    |   |
| <b>Wire type:</b>                   | <b>I:</b> Individually shielded wire                                                                       |         |    |   |   |   |    |   |

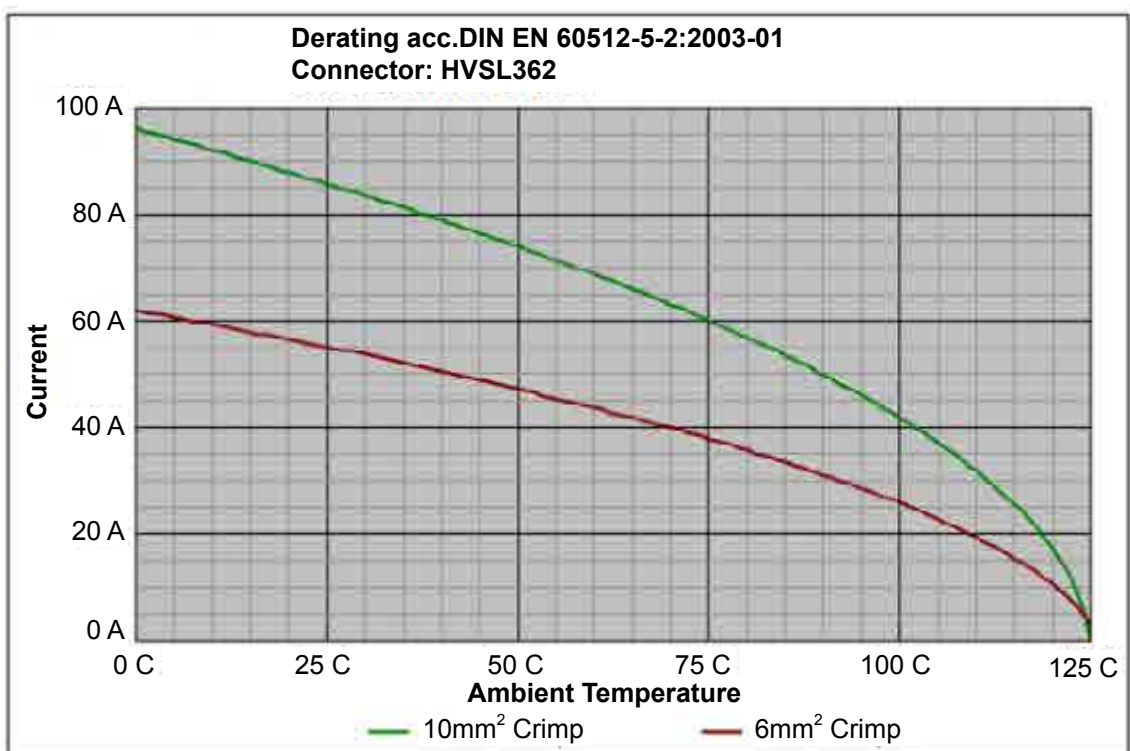
### HOW TO ORDER: RECEPTACLE

|                                     |                                                                                                            |         |    |   |   |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|---------|----|---|---|
|                                     |                                                                                                            | 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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |         |    |   |   |

## HVSL 362 | Temperature Rise



## HVSL 362 | Derating Curve



Remark: tests carried out on the complete connector.

# Excel|Mate Eco (HVSL 364)

Excel|Mate Eco (HVSL364 4 PIN connector)



## HVSL364

**HVSL364** is a 4 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 46A and 2.5 to 6mm<sup>2</sup> crimping cable.

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

## KEY FEATURES

Integrated internal HVIL

Current rating up to 46A

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67 (mated), IP6K9K

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                | 800V DC                            |
| Rated current                | 46A Max @ ambient temperature 70°C |
| Insulator resistance         | > 200MΩ                            |
| Dielectric withstand voltage | 3000V AC                           |
| Shielding                    | 360° from wire to device           |

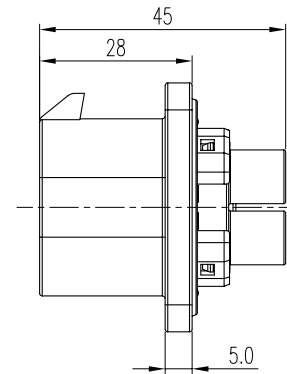
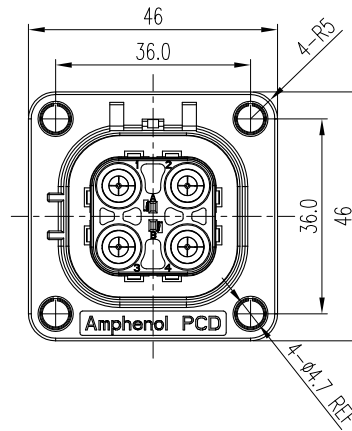
## ENVIRONMENTAL

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

## MATERIAL

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

## RECEPTACLE

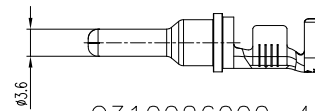


## CONTACTS

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

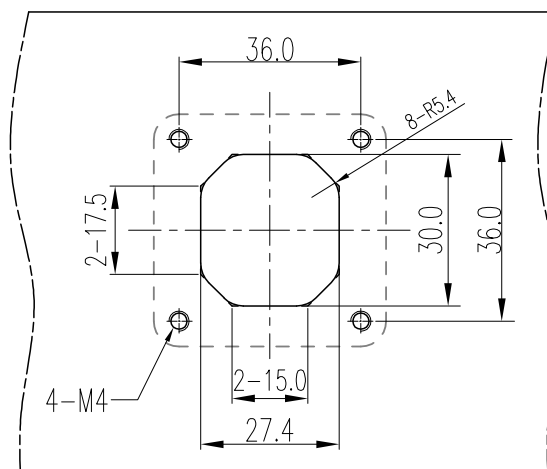
### CONTACTS

| HVIL contacts   | 4 to 6mm <sup>2</sup> | 2.5mm <sup>2</sup> |
|-----------------|-----------------------|--------------------|
| P/N: C310003614 | P/N: C310026000       | P/N: C310026002    |



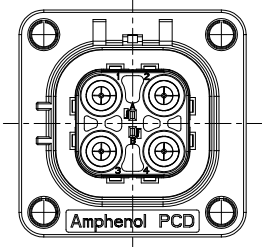
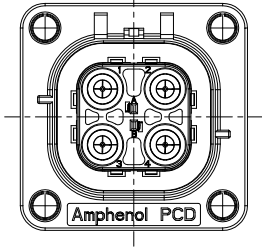
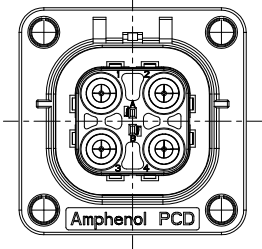
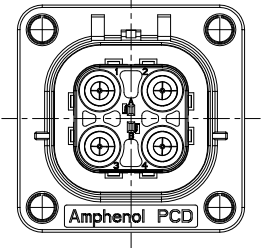
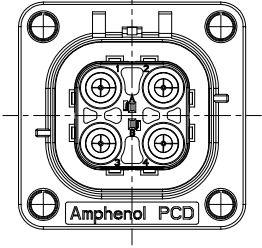
C310026000–4&6mm<sup>2</sup> wire  
C310026002–2.5mm<sup>2</sup> wire

## PANEL MOUNTING DIMENSION

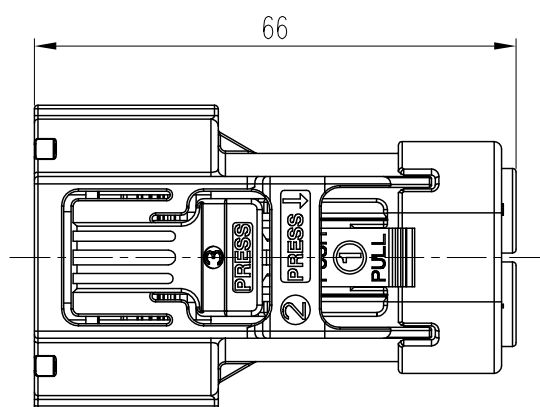
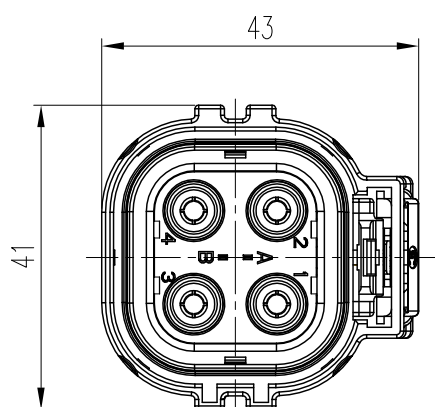


MOUNTING INTERFACE SPECIFICATION  
RECOMMENDED THICKNESS:3.0mm Min

PANEL MOUNTING HOLES POSITIONS

| PART NUMBER   | INSERT ORIENTATION                                                                   |
|---------------|--------------------------------------------------------------------------------------|
| HVSL364 024 A |    |
| HVSL364 024 B |   |
| HVSL364 024 C |  |
| HVSL364 024 D |  |
| HVSL364 024 E |  |

## PLUG

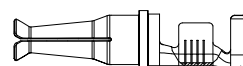


## CONTACTS

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

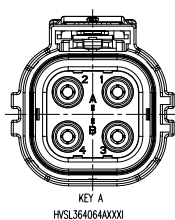
### CONTACTS

| HVIL contacts               | 4 to 6mm <sup>2</sup> | 2.5mm <sup>2</sup> |
|-----------------------------|-----------------------|--------------------|
| Integrated, no need to buy. | P/N: C310026001       | P/N: C310026003    |

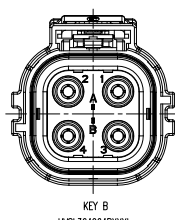


C310026001—4&6mm<sup>2</sup> wire  
C310026003—2.5mm<sup>2</sup> wire

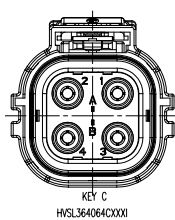
## INSERT ORIENTATIONS



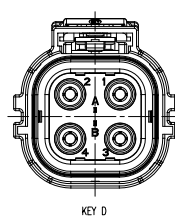
KEY A  
HVSL364064AXXXI



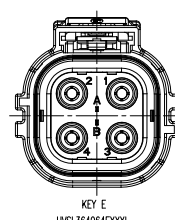
KEY B  
HVSL364064BXXXI



KEY C  
HVSL364064CXXI



KEY D  
HVSL364064DXXI



KEY E  
HVSL364064EXXXI

|     | Coding A      | Coding B      | Coding C      | Coding D      | Coding E      |
|-----|---------------|---------------|---------------|---------------|---------------|
| P/N | HVSL364 064 A | HVSL364 064 B | HVSL364 064 C | HVSL364 064 D | HVSL364 064 E |

## HOW TO ORDER (HVSL 364)

### HOW TO ORDER: PLUG

|                                     |                                                                                                            |         |    |   |   |   |    |   |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|---------|----|---|---|---|----|---|
|                                     |                                                                                                            | 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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |         |    |   |   |   |    |   |
| <b>Interlock:</b>                   | <b>0:</b> Without interlock<br><b>1:</b> With interlock                                                    |         |    |   |   |   |    |   |
| <b>Cable size:</b>                  | <b>03:</b> 2.5mm <sup>2</sup><br><b>04:</b> 4mm <sup>2</sup><br><b>06:</b> 6mm <sup>2</sup>                |         |    |   |   |   |    |   |
| <b>Wire type:</b>                   | <b>I:</b> Individually shielded wire                                                                       |         |    |   |   |   |    |   |

### HOW TO ORDER: RECEPTACLE

|                                     |                                                                                                            |         |    |   |   |  |  |  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|---------|----|---|---|--|--|--|
|                                     |                                                                                                            | 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<br><b>B:</b> Coding B<br><b>C:</b> Coding C<br><b>D:</b> Coding D<br><b>E:</b> Coding E |         |    |   |   |  |  |  |

## ExcelMate PT (HVPT - PASS-THROUGH WITH CABLE GLAND)

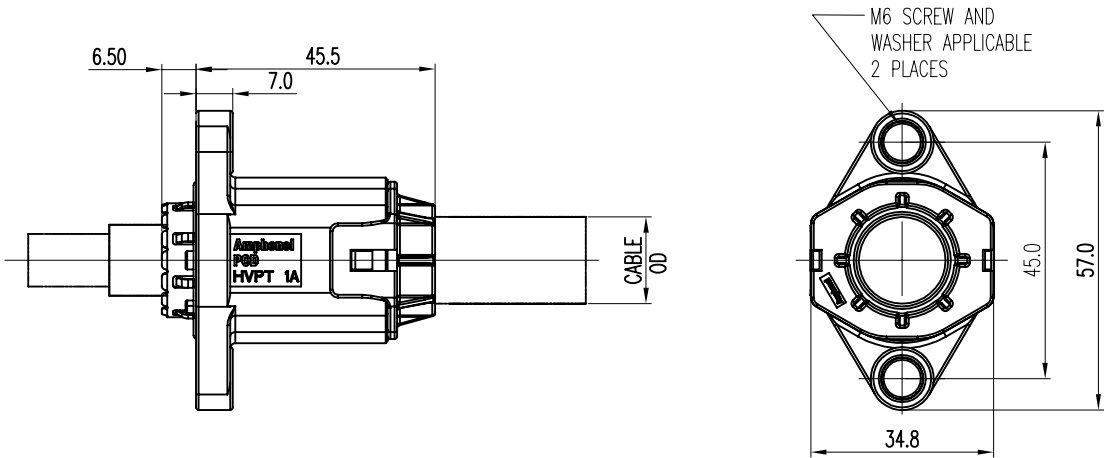
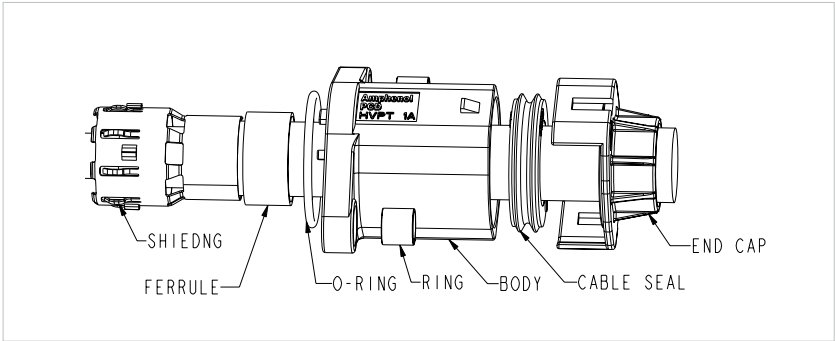


| MECHANICAL                   |                                         |
|------------------------------|-----------------------------------------|
| Wire range                   | 25 to 70 mm <sup>2</sup> shielded wires |
| Connection type              | Crimping                                |
|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

### KEY FEATURES

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

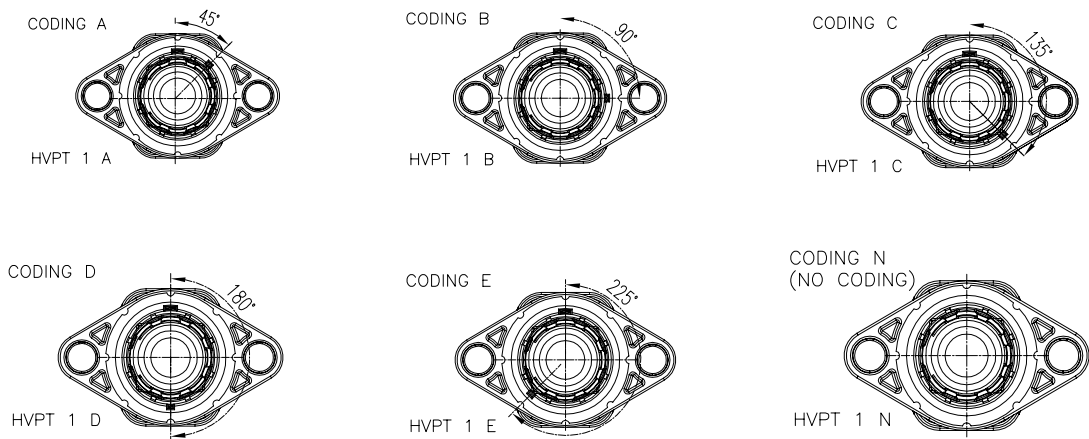
1 POSITION PASS-THROUGH



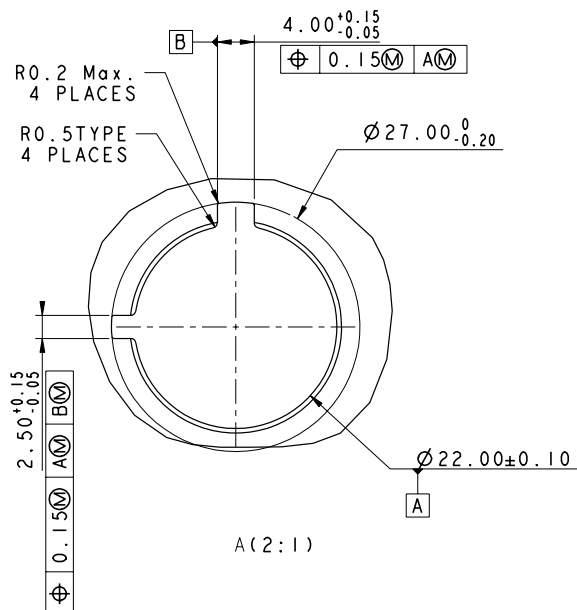
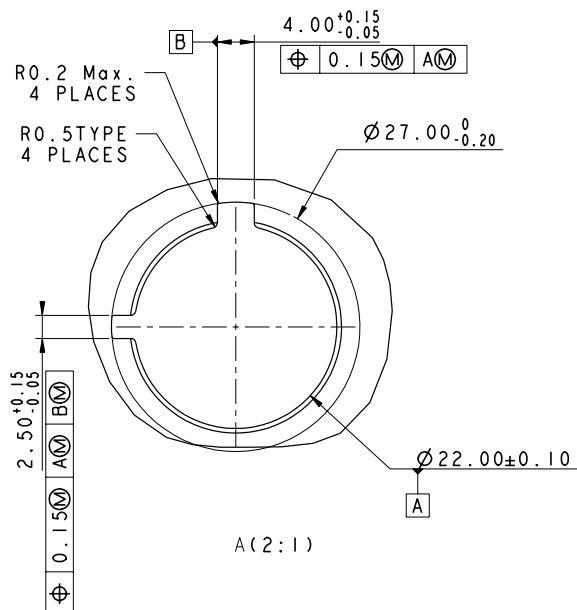
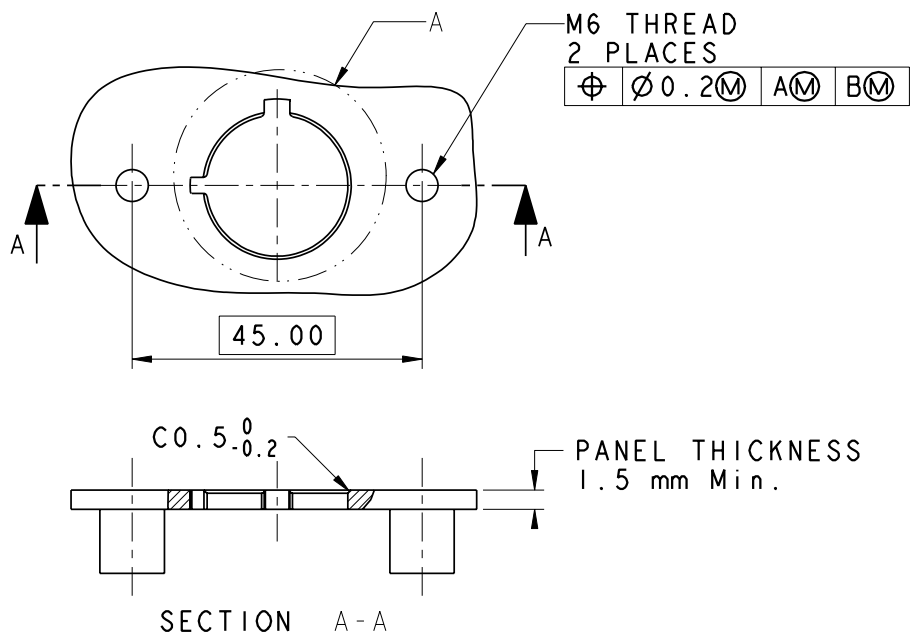
CONTACTS

| Part number | Conductor cross section (mm <sup>2</sup> ) | Cable OD |
|-------------|--------------------------------------------|----------|
| HVPT 1 X 70 | 70                                         | 19.0±0.3 |
| HVPT 1 X 50 | 50                                         | 16.5±0.3 |
| HVPT 1 X 35 | 35                                         | 14.2±0.3 |
| HVPT 1 X 25 | 25                                         | 11.9±0.3 |

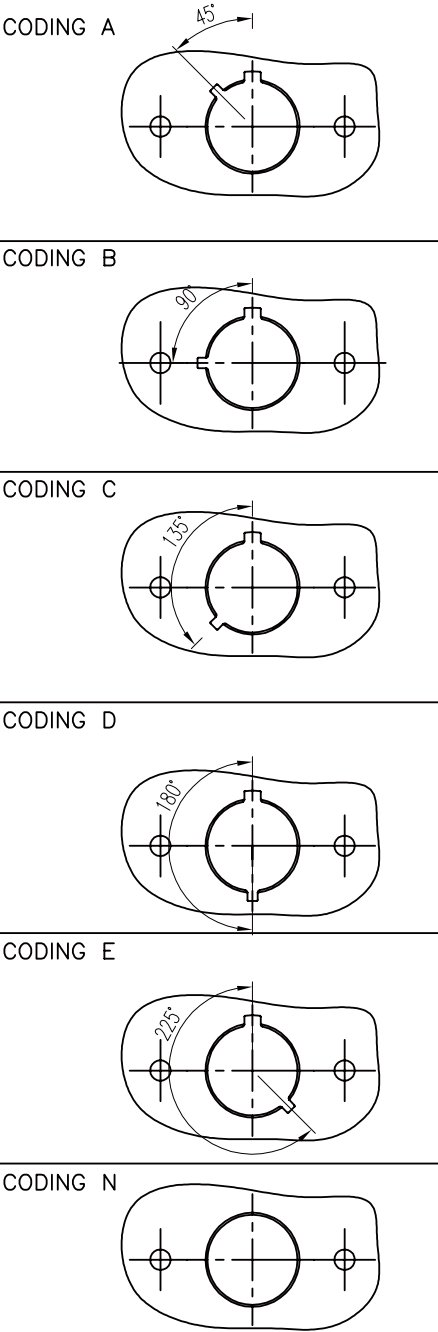
INSERT ORIENTATIONS



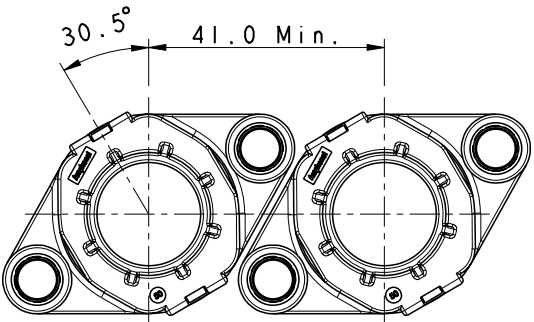
PANEL MOUNTING DIMENSIONS



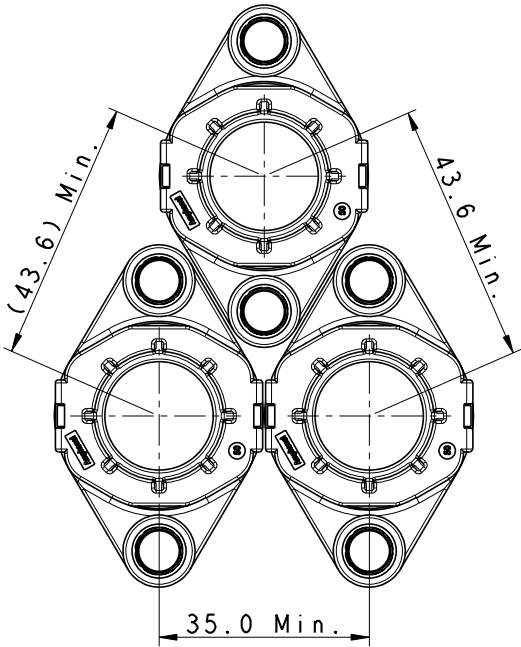
PANEL MOUNTING DIMENSIONS



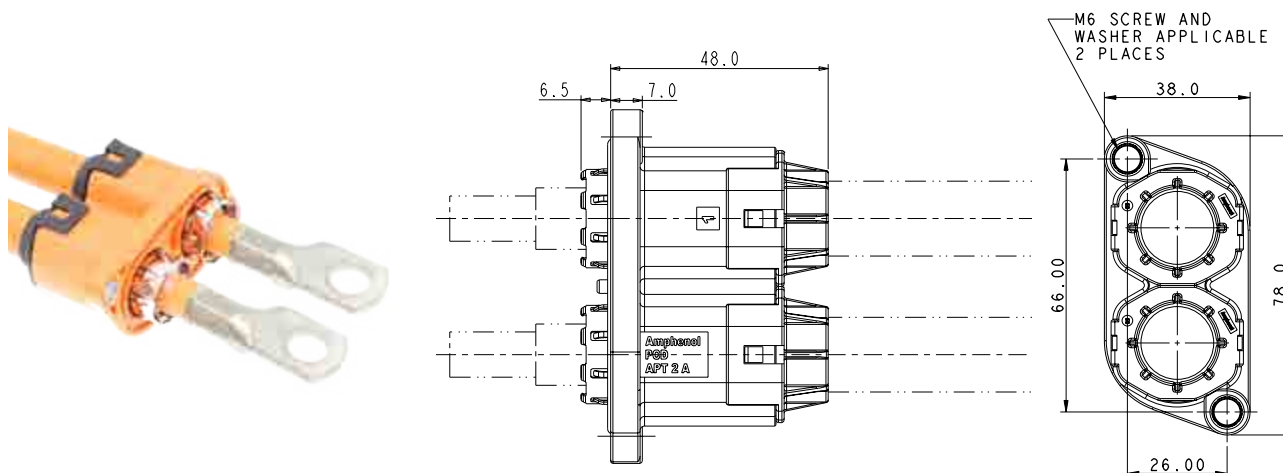
RECOMMENDED LAYOUT FOR 2 UNITS



RECOMMENDED LAYOUT FOR 3 UNITS



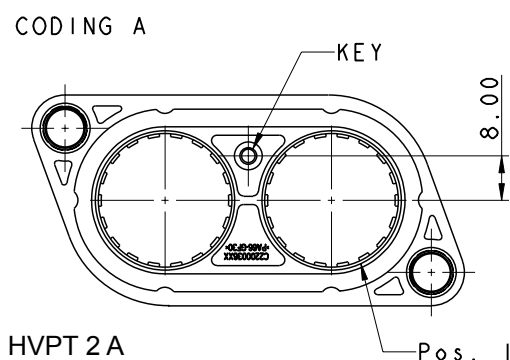
## 2 POSITION PASS-THROUGH



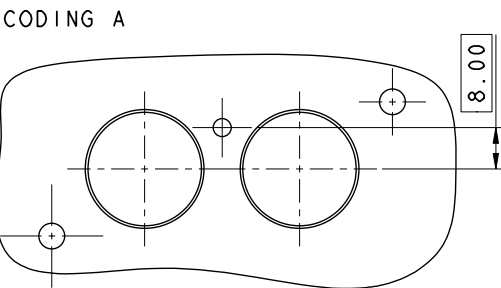
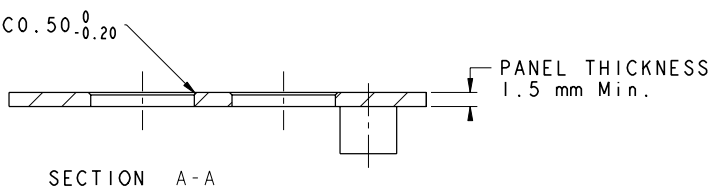
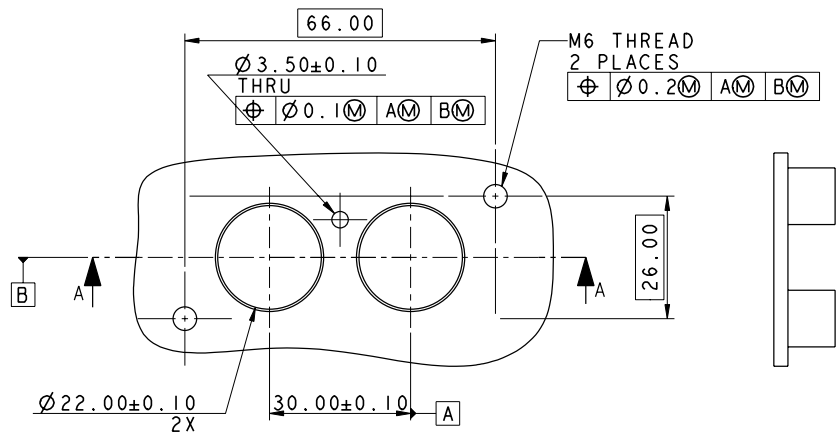
## CONTACTS

| Part number | Conductor cross section (mm <sup>2</sup> ) | Cable OD |
|-------------|--------------------------------------------|----------|
| HVPT 2 X 70 | 70                                         | 19.0±0.3 |
| HVPT 2 X 50 | 50                                         | 16.5±0.3 |
| HVPT 2 X 35 | 35                                         | 14.2±0.3 |
| HVPT 2 X 25 | 25                                         | 11.9±0.3 |

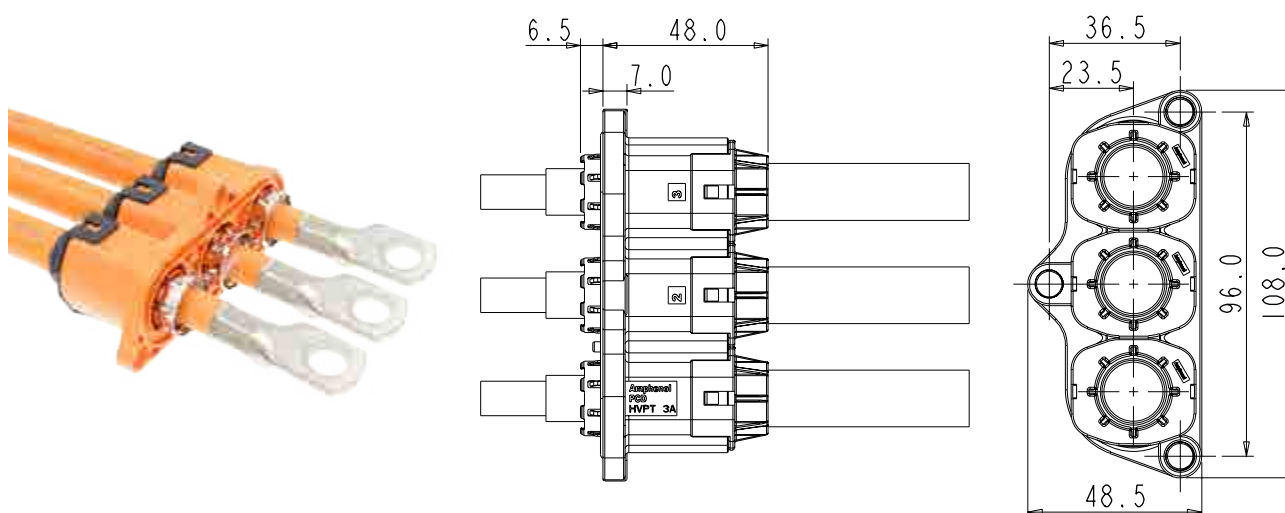
## INSERT ORIENTATIONS



PANEL MOUNTING DIMENSIONS



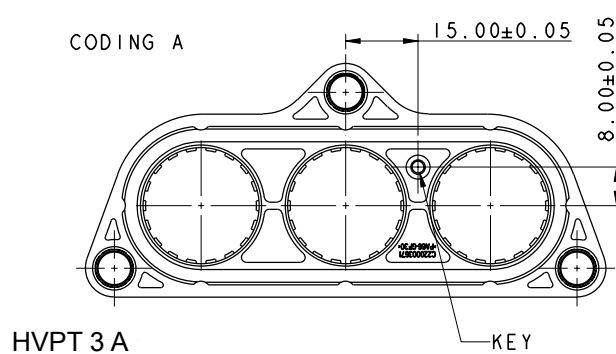
### 3 POSITION PASS-THROUGH



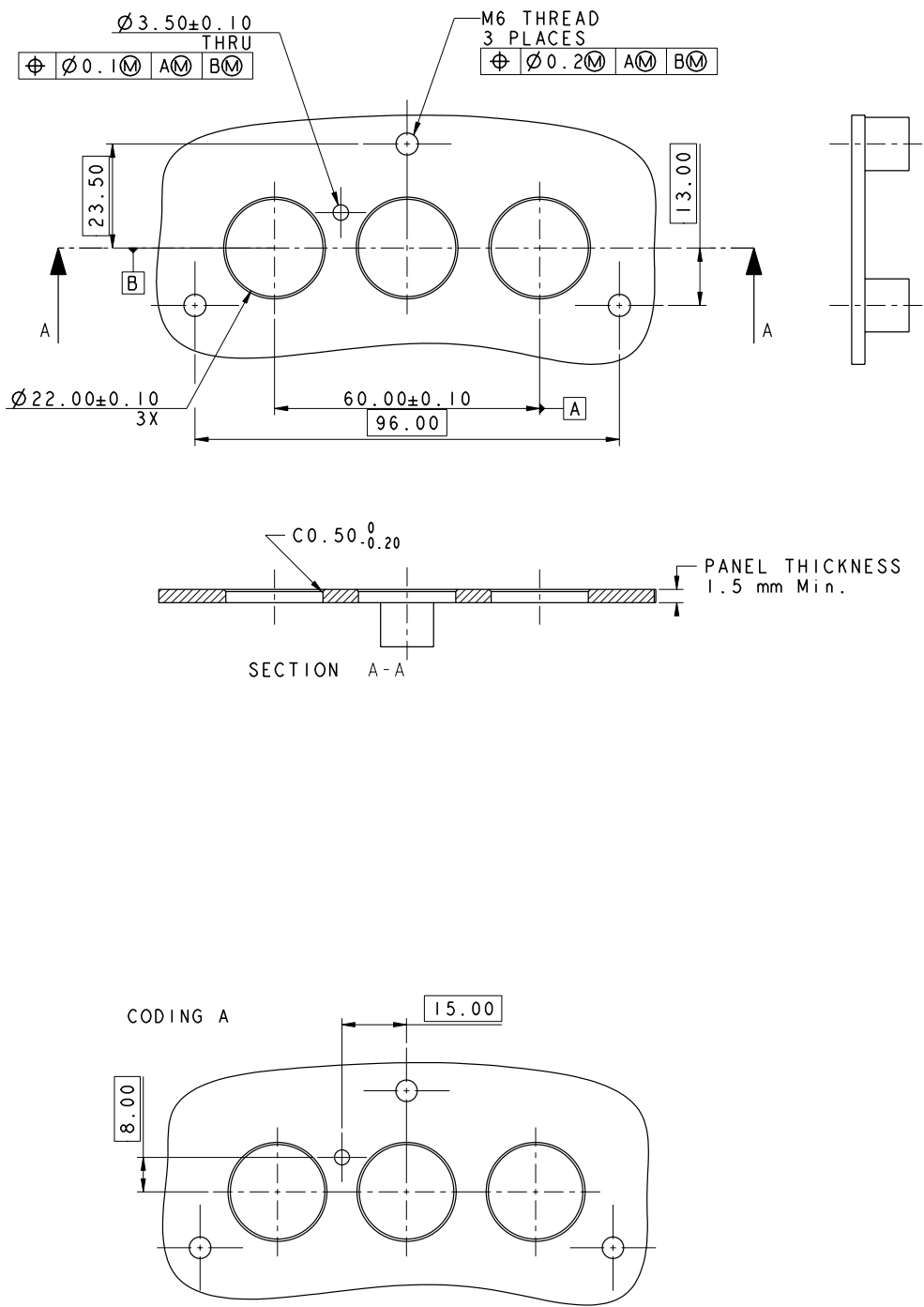
### CONTACTS

| Part number | Conductor cross section (mm <sup>2</sup> ) | Cable OD |
|-------------|--------------------------------------------|----------|
| HVPT 3 X 70 | 70                                         | 19.0±0.3 |
| HVPT 3 X 50 | 50                                         | 16.5±0.3 |
| HVPT 3 X 35 | 35                                         | 14.2±0.3 |
| HVPT 3 X 25 | 25                                         | 11.9±0.3 |

### INSERT ORIENTATIONS



PANEL MOUNTING DIMENSIONS



## HVPT B PASS-THROUGH

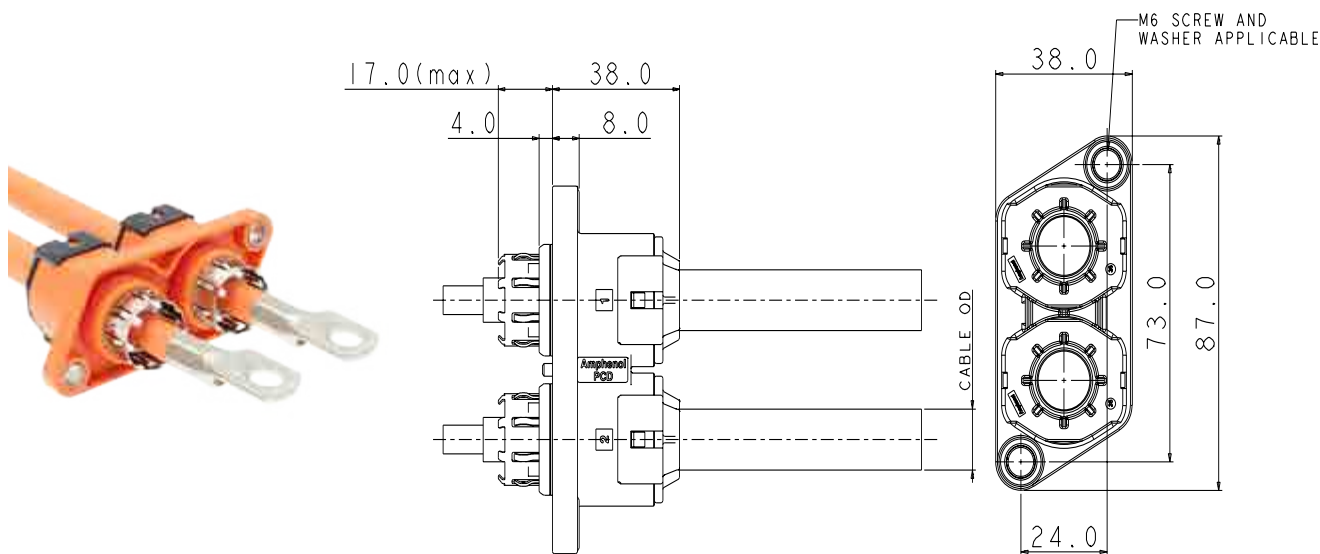


| MECHANICAL                   |                                         |
|------------------------------|-----------------------------------------|
| Wire range                   | 25 to 70 mm <sup>2</sup> shielded wires |
| Connection type              | Crimping                                |
|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

### KEY FEATURES

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

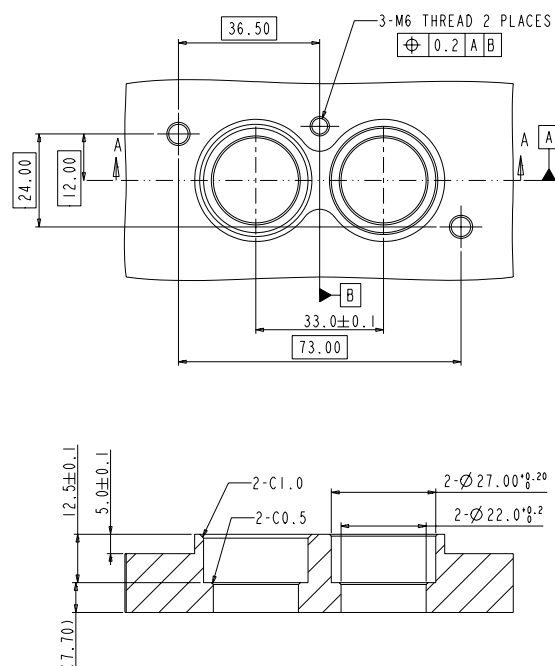
HVPTB 2 POSITION PASS-THROUGH



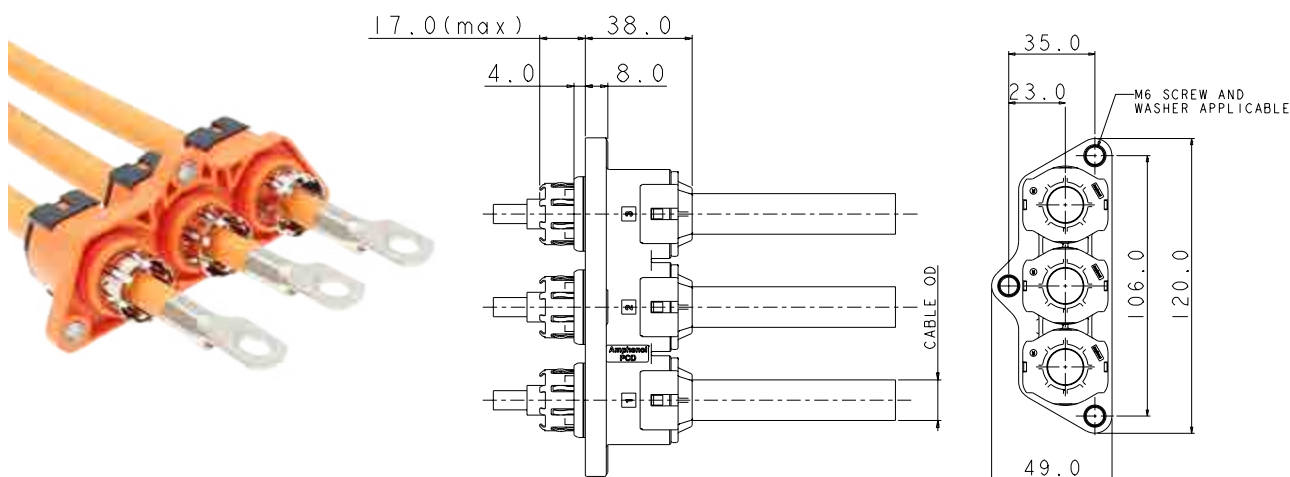
PART NUMBER

| Part number  | Conductor cross section (mm <sup>2</sup> ) | Cable OD |
|--------------|--------------------------------------------|----------|
| HVPTB 2 B 70 | 70                                         | 19.0±0.3 |
| HVPTB 2 B 50 | 50                                         | 16.5±0.3 |
| HVPTB 2 B 35 | 35                                         | 14.2±0.3 |
| HVPTB 2 B 25 | 25                                         | 11.9±0.3 |

PANEL MOUNTING DIMENSIONS



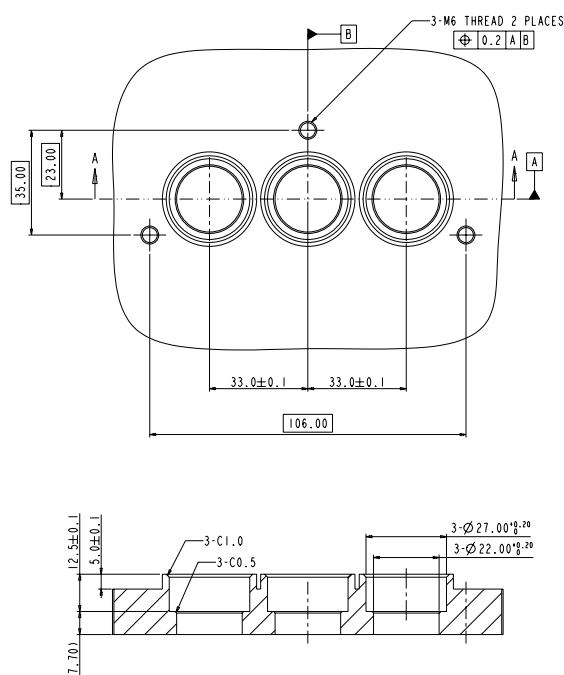
## HVPTB 3 POSITION PASS-THROUGH



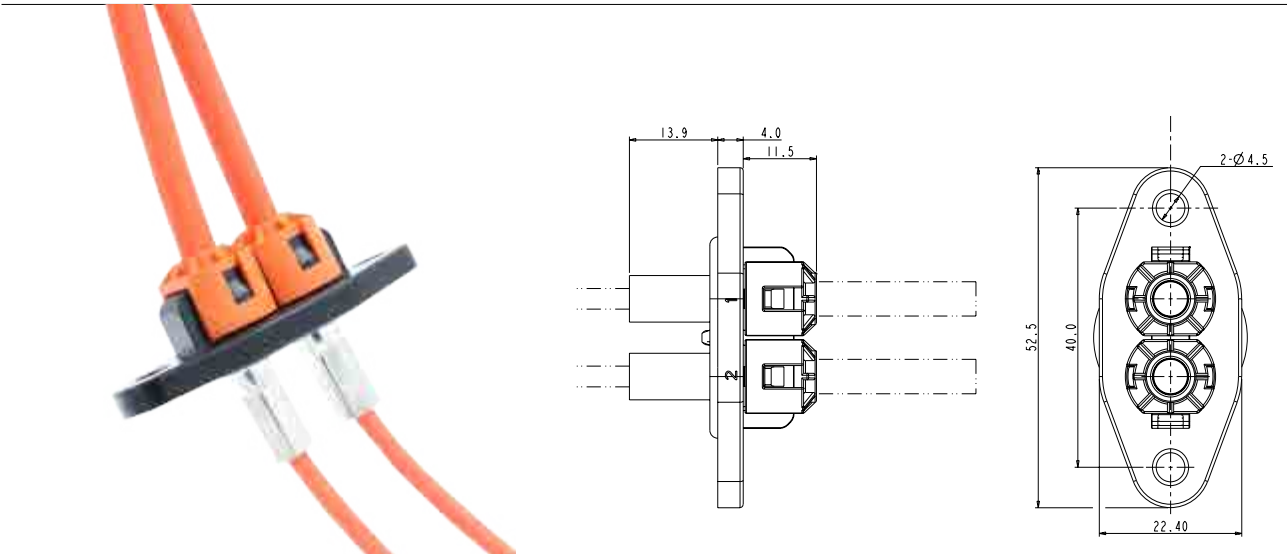
## PART NUMBER

| Part number  | Conductor cross section (mm <sup>2</sup> ) | Cable OD |
|--------------|--------------------------------------------|----------|
| HVPTB 3 N 70 | 70                                         | 19.0±0.3 |
| HVPTB 3 N 50 | 50                                         | 16.5±0.3 |
| HVPTB 3 N 35 | 35                                         | 14.2±0.3 |
| HVPTB 3 N 25 | 25                                         | 11.9±0.3 |

## PANEL MOUNTING DIMENSIONS



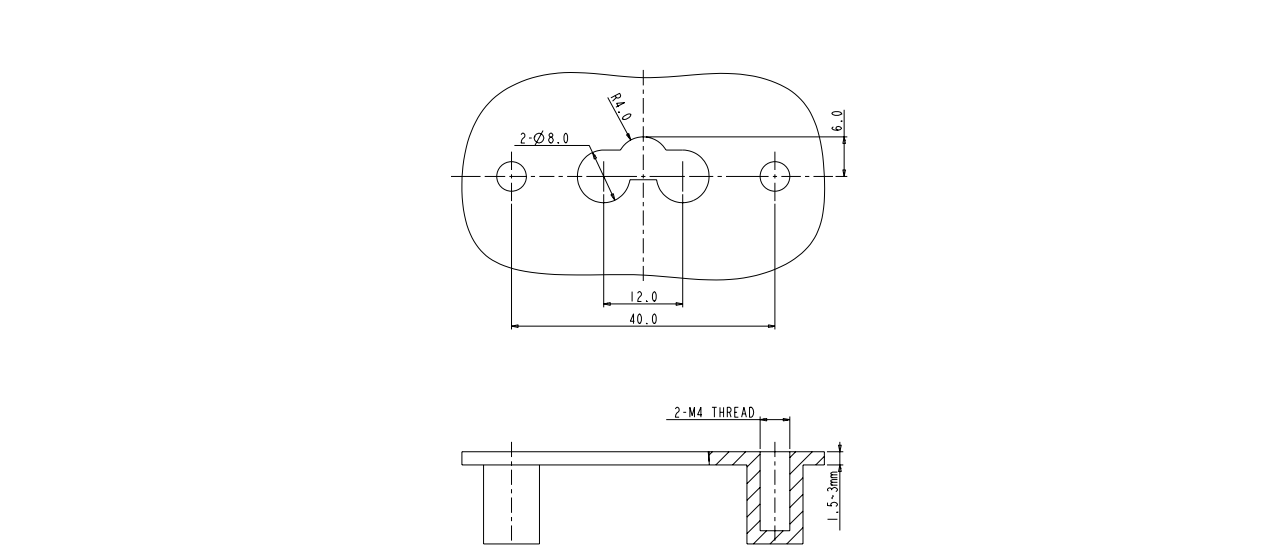
HVPTB 2A POSITION PASS-THROUGH



PART NUMBER

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

PANEL MOUNTING DIMENSIONS



## HVPC PASS-THROUGH

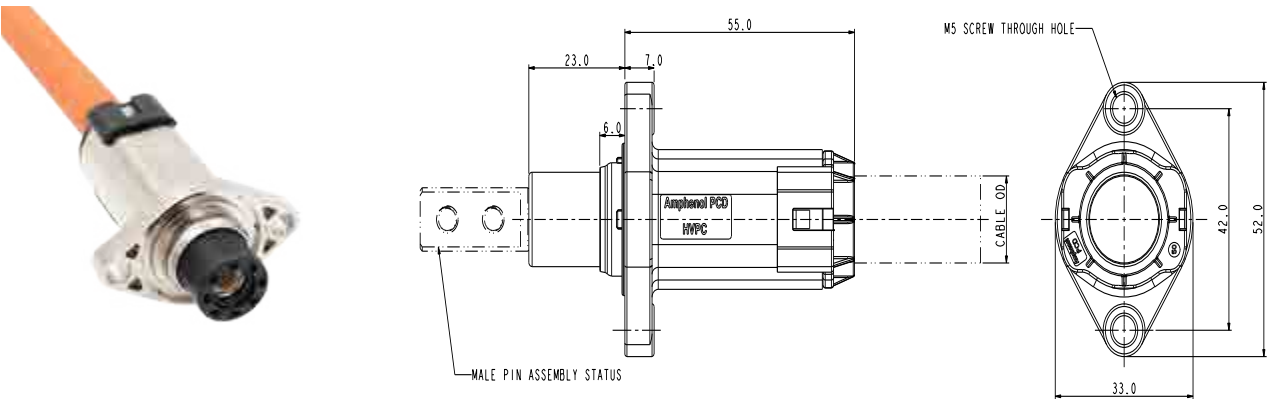


| MECHANICAL                   |                                        |
|------------------------------|----------------------------------------|
| Wire range                   | 35 to 50mm <sup>2</sup> shielded wires |
| Connection type              | Crimping                               |
| ELECTRICAL                   |                                        |
| Rated voltage                | 1000V DC                               |
| Dielectric withstand voltage | 3000V AC                               |
| Shielding                    | 360° from wire to device               |
| ENVIRONMENTAL                |                                        |
| Sealing                      | IP67, IP6K9K (mated)                   |
| Temperature range            | -40°C to 125°C                         |
| Salt spray                   | 96 hours                               |
| MATERIAL                     |                                        |
| Housing                      | Metal                                  |

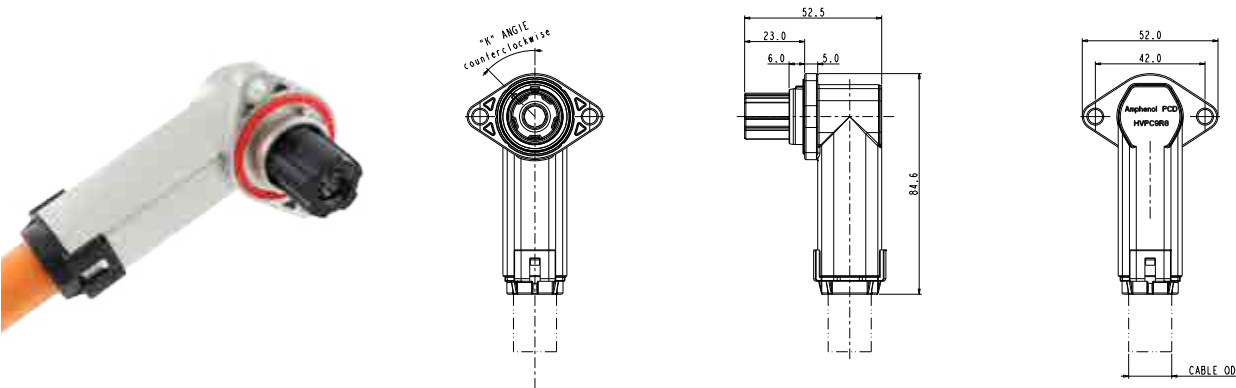
### KEY FEATURES

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

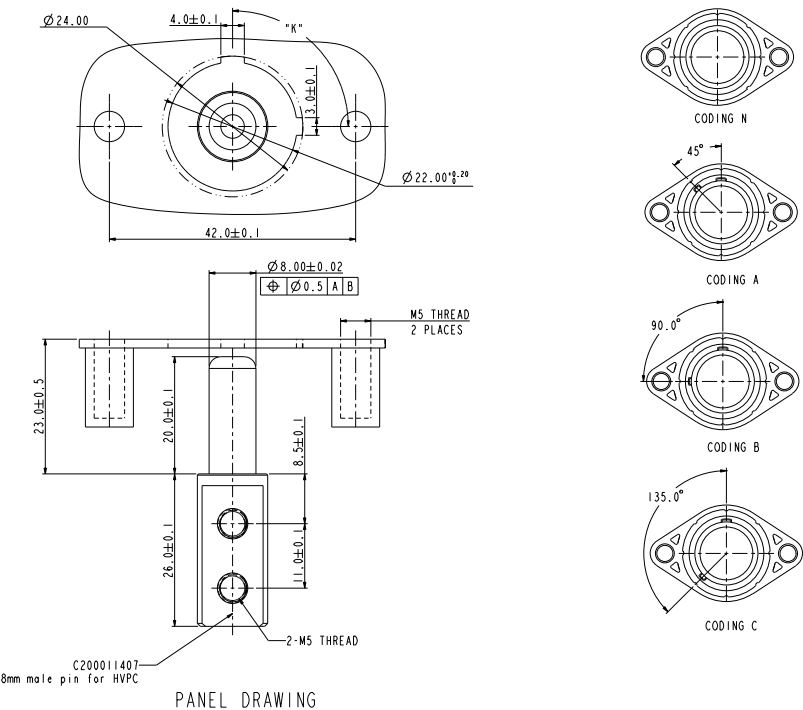
HVPC 1 POSITION PASS-THROUGH



HVPC 1 POSITION RIGHT-ANGLE



PANEL MOUNTING DIMENSIONS



## HOW TO ORDER

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

Excel|Mate PT  
(HVPC 800)

HVPC 800

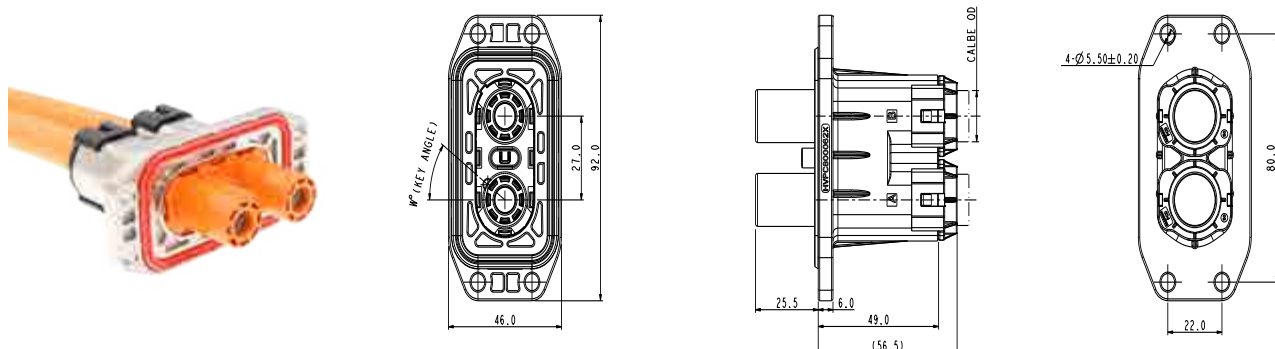


| MECHANICAL                   |                                        |
|------------------------------|----------------------------------------|
| Wire range                   | 35 to 50mm <sup>2</sup> shielded wires |
| Connection type              | Crimping                               |
| ELECTRICAL                   |                                        |
| Rated voltage                | 1000V DC                               |
| Dielectric withstand voltage | 3000V AC                               |
| Shielding                    | 360° from wire to device               |
| ENVIRONMENTAL                |                                        |
| Sealing                      | IP67, IP6K9K (mated)                   |
| Temperature range            | -40°C to 125°C                         |
| Salt spray                   | 96 hours                               |
| MATERIAL                     |                                        |
| Housing                      | Metal                                  |
|                              |                                        |

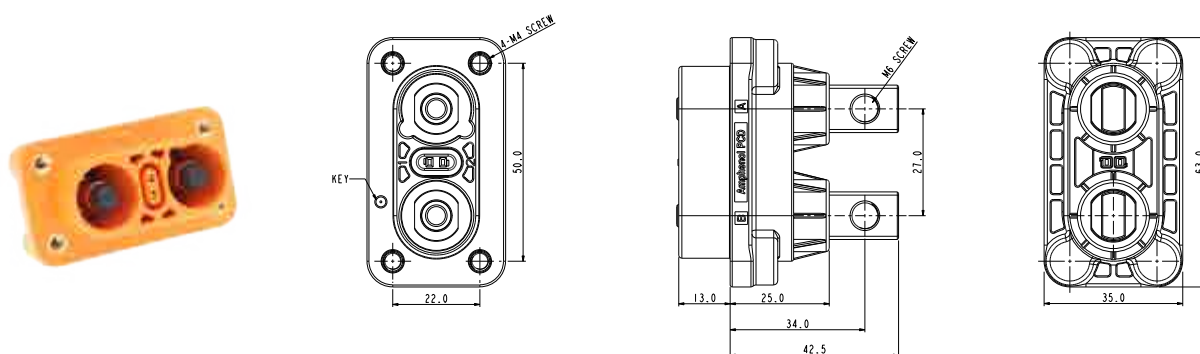
KEY FEATURES

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

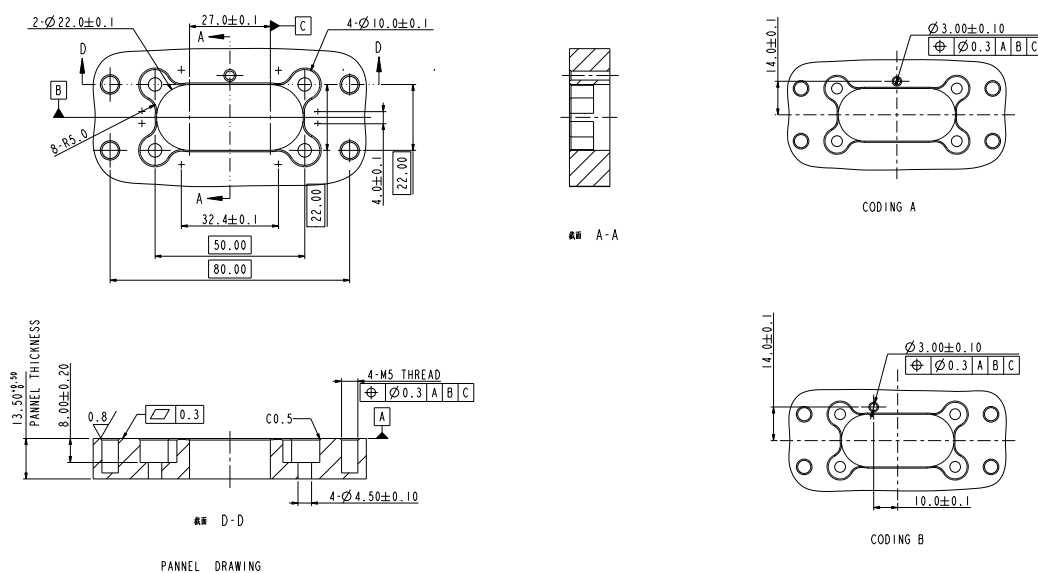
## HVPC 800 PLUG



## HVPC 800 RECEPTACLE



## PANEL MOUNTING DIMENSIONS



# HOW TO ORDER (HVPC 800)

## HOW TO ORDER

|                                                                                                 |          |    |   |   |   |    |
|-------------------------------------------------------------------------------------------------|----------|----|---|---|---|----|
|                                                                                                 | HVPC 800 | 02 | 2 | A | 1 | 35 |
| <b>Product type:</b><br>02: Receptacle<br>06: Plug                                              |          |    |   |   |   |    |
| <b>Position:</b><br>2: 2 positions                                                              |          |    |   |   |   |    |
| <b>Coding:</b><br>A: Coding A<br>B: Coding B                                                    |          |    |   |   |   |    |
| <b>HVIL:</b><br>0: Without HVIL<br>1: With HVIL                                                 |          |    |   |   |   |    |
| <b>Wire type:</b><br>35: 35mm <sup>2</sup> shielded wire<br>50: 50mm <sup>2</sup> shielded wire |          |    |   |   |   |    |

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