



AMPHENOL PCD



EXCEL|MATE

HVSL Series

Ref. No: HVSL-ALL-0426

www.amphenolpcd.com.cn

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

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

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

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

EXCEL | MATE Max (HVSL 1400)

EXCEL | MATE (HVSL1400)



High Voltage Safety Lock

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

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

KEY FEATURES

With interlock solution

14mm slotted contacts

Sealing, IP67 (mated), IP6K9K

Touch-proof, IP2XB

Multiple coding positions

Ultrasonic welding for 70mm² to 120mm² wire range (optional)

APPLICATIONS

HEV Battery

Inverters

Junction boxes

Power distribution boxes

MECHANICAL

Durability ≥ 50 mating cycles

Wire range 70mm² to 120mm²

ELECTRICAL

Rated voltage 1000V DC

Rated current 450A Max @ ambient temperature 70°C

Insulator resistance > 200MΩ

Dielectric withstand voltage 3000V AC

ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

STANDARDS

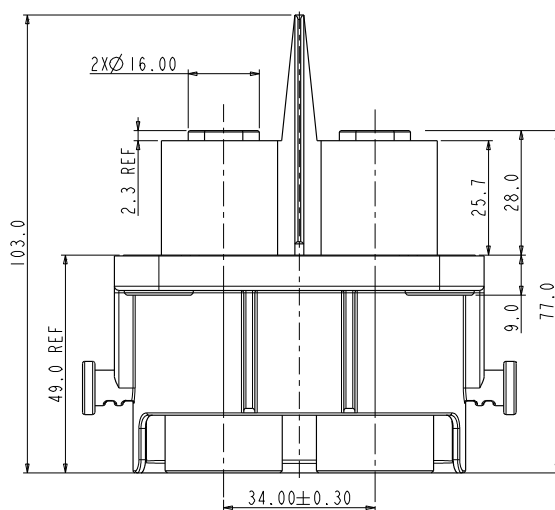
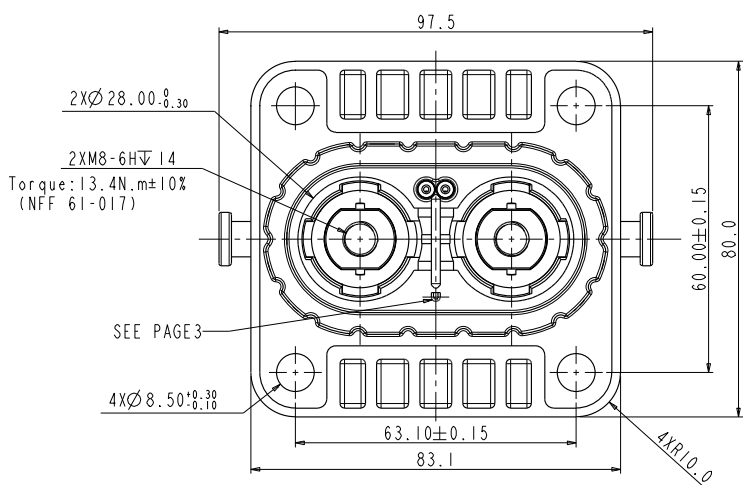
USCAR-2

USCAR-37

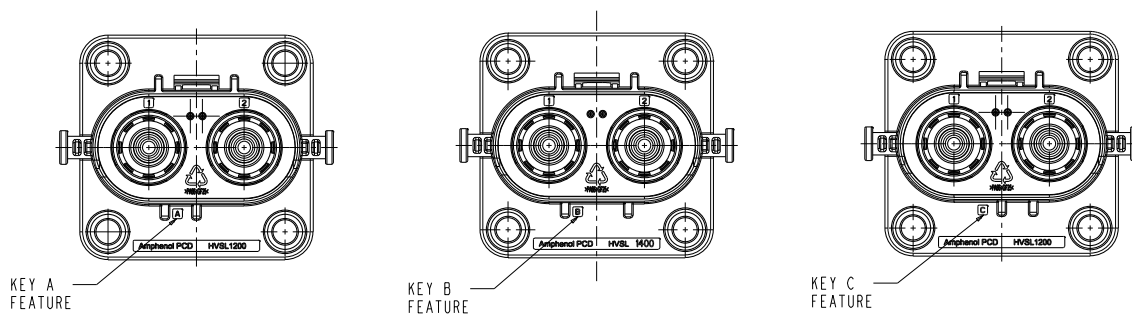
LV-215

RoHS

2 PIN RECEPTACLE BOX MOUNTED

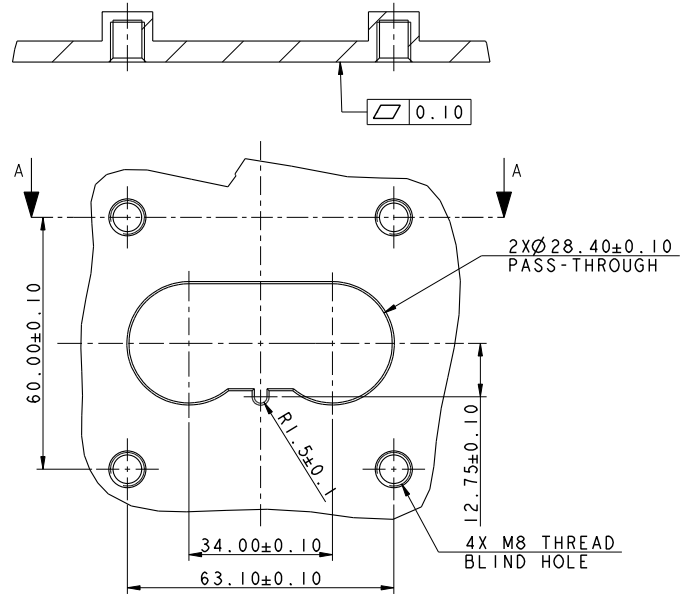


INSERT ORIENTATIONS

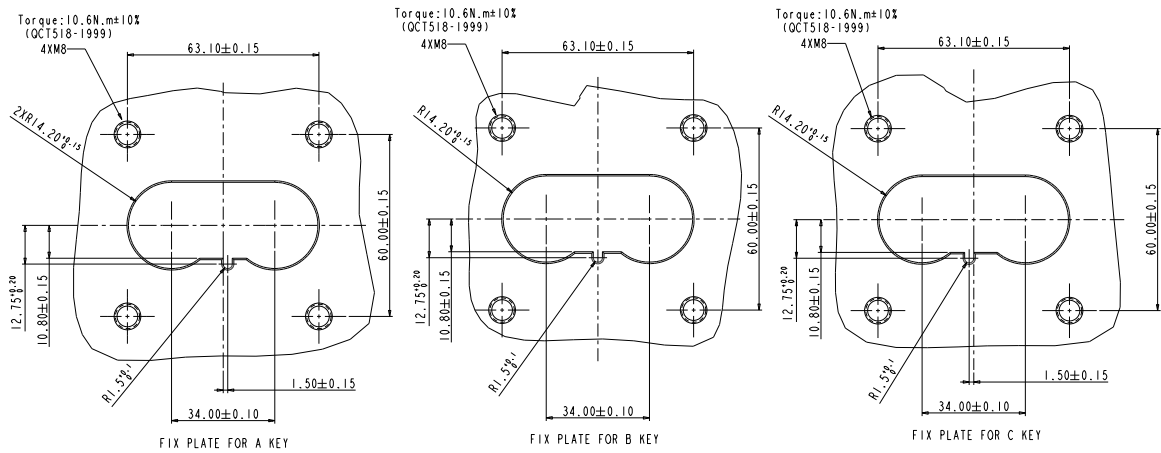


| | Coding A | Coding B | Coding C |
|-----|------------------------|------------------------|------------------------|
| P/N | HVSL1400 02 2 A X D8S6 | HVSL1400 02 2 B X D8S6 | HVSL1400 02 2 C X D8S6 |

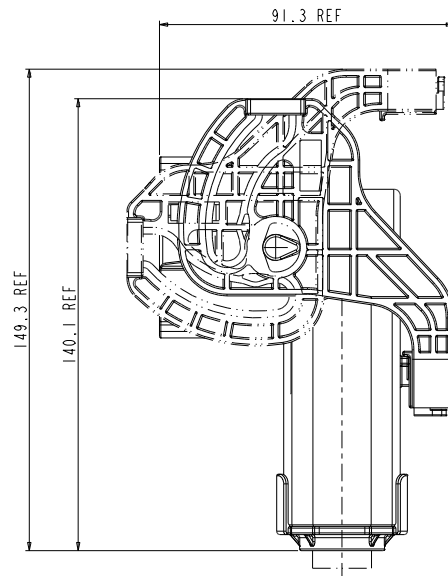
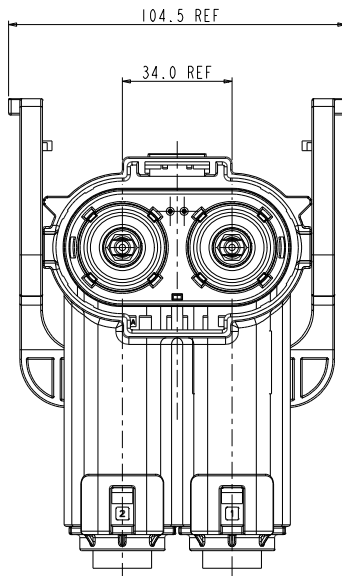
PANEL MOUNTING DIMENSIONS



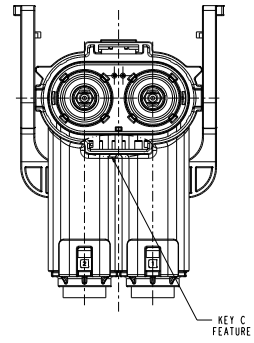
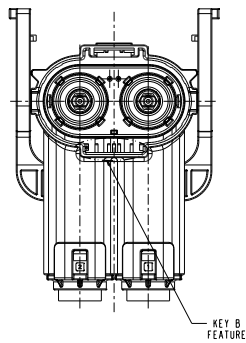
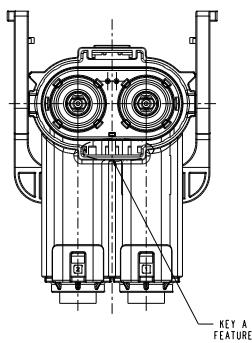
MOUNTING PANEL LAYOUT
RECOMMENDED THICKNESS 3MM MIN.



2 PIN PLUG RIGHT ANGLE



INSERT ORIENTATIONS



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

HOW TO ORDER (HVSL 1400)

HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

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

EXTRACTION TOOL FOR RECEPTACLE SIGNAL CONTACT

HVIL-contact Extraction tool: HVTOOL11R



EXCEL | MATE (HVSL1200)



High Voltage Safety Lock

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

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

KEY FEATURES

With interlock solution

RADSOK® Technology R4 version 12mm

Sealing, IP67 (mated), IP6K9K

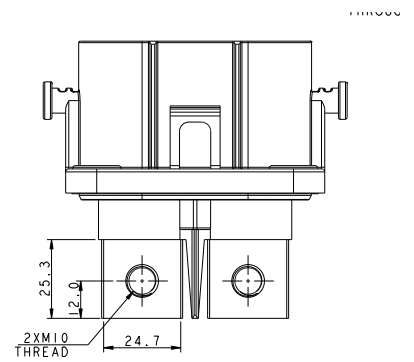
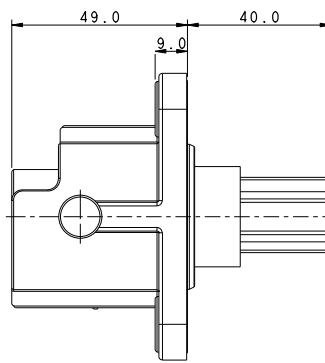
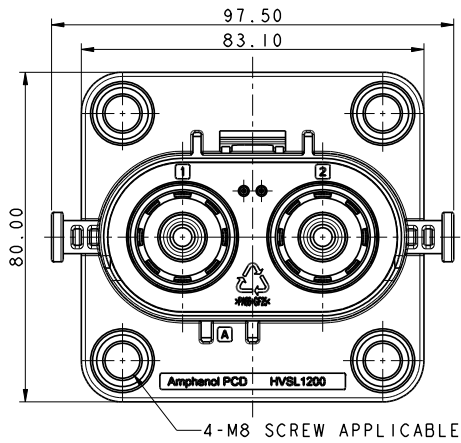
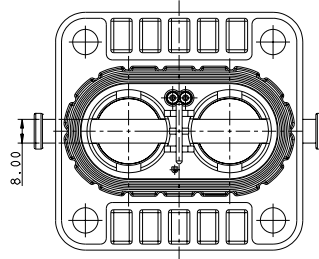
Touch-proof, IP2XB

Multiple coding positions

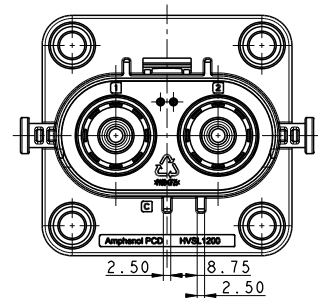
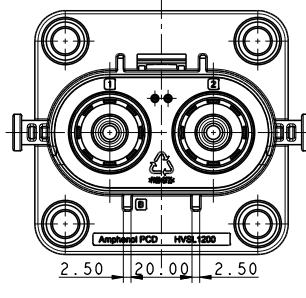
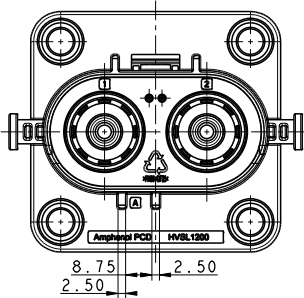
| APPLICATIONS | |
|------------------------------|--|
| HEV Battery | |
| Inverters | |
| Junction boxes | |
| Power distribution boxes | |
| MECHANICAL | |
| Durability | ≥ 50 mating cycles |
| Wire range | 70mm ² to 95mm ² |
| ELECTRICAL | |
| Rated voltage | 1000V DC |
| Rated current | 350A Max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

Excel|Mate Max (HVSL 1200)

2 PIN RECEPTACLE BOX MOUNTED



INSERT ORIENTATIONS

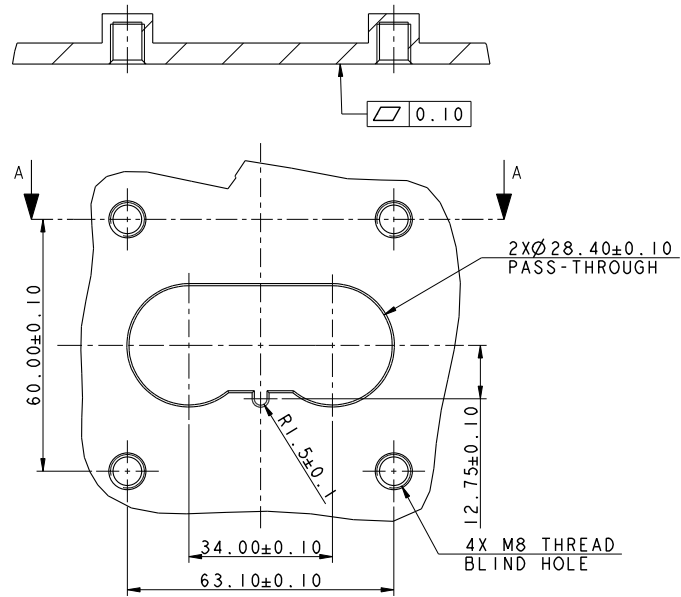


Coding A
P/N HVSL1200 02 2 A

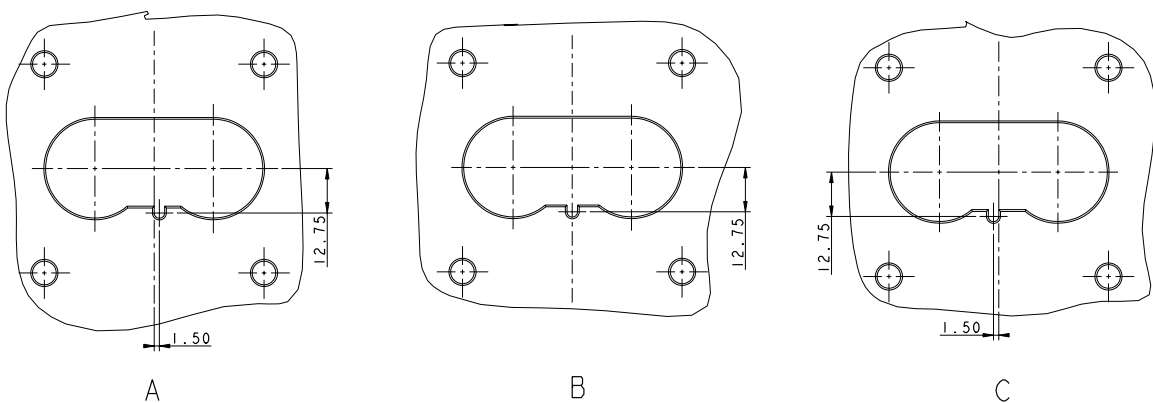
Coding B
P/N HVSL1200 02 2 B

Coding C
P/N HVSL1200 02 2 C

PANEL MOUNTING DIMENSIONS

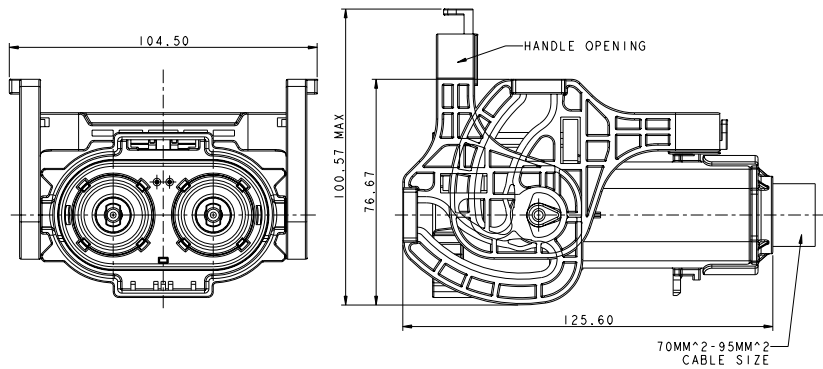


MOUNTING PANEL LAYOUT
RECOMMENDED THICKNESS 3MM MIN.

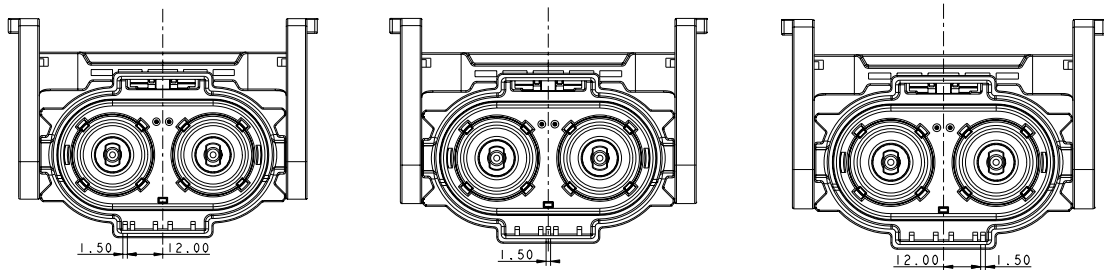


ExcelMate Max (HVSL 1200)

2 PIN PLUG

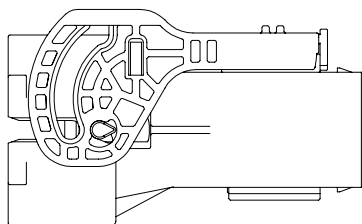


INSERT ORIENTATIONS

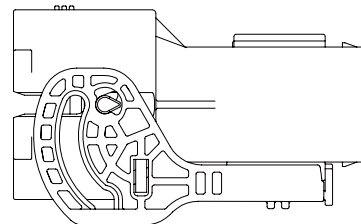


| | Coding A | Coding B | Coding C |
|-----|-----------------|-----------------|-----------------|
| P/N | HVSL1200 06 2 A | HVSL1200 06 2 B | HVSL1200 06 2 C |

LEVER POSITION

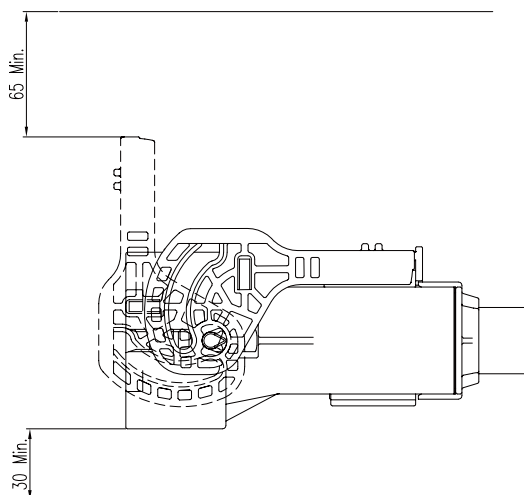


STANDARD LEVER

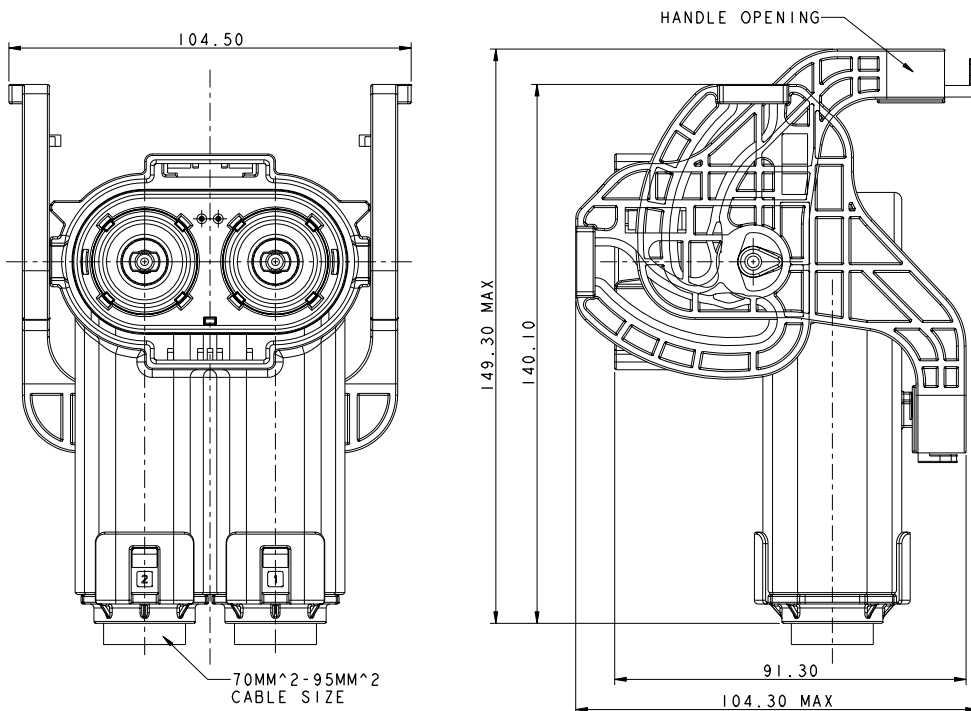


REVERSE LEVER

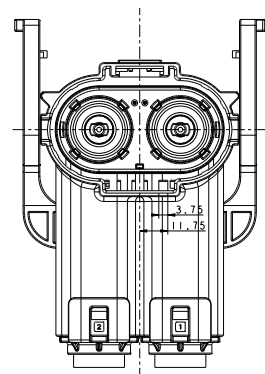
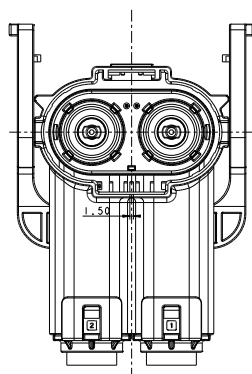
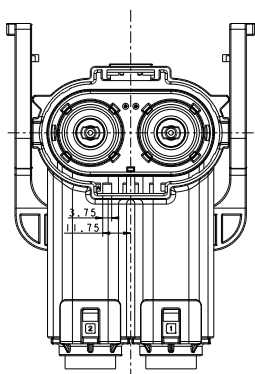
INSTALLATION CLEARANCE



2 PIN PLUG RIGHT ANGLE



INSERT ORIENTATIONS



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

HOW TO ORDER (HVSL 1200)

HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

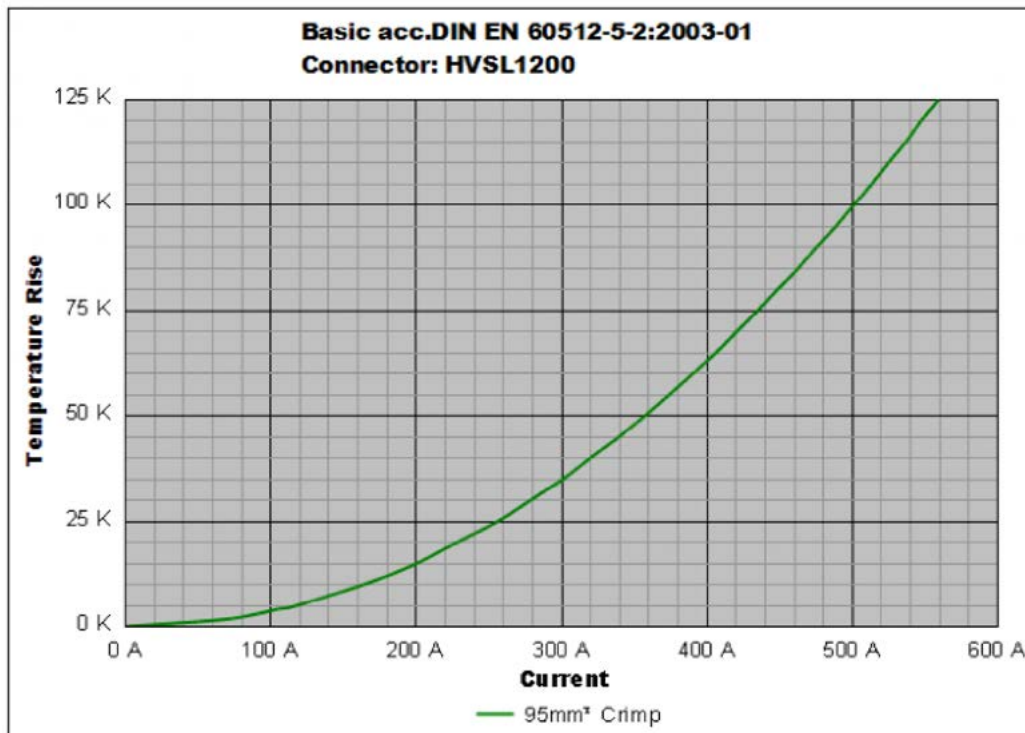
| | | | | | | |
|-------------------------------------|----------|----|---|---|---|-----|
| | HVSL1200 | 02 | 2 | A | 0 | H10 |
| Product type: | | | | | | |
| 02: Box mounted receptacle | | | | | | |
| Position: | | | | | | |
| 2: 2 position | | | | | | |
| Coding / Alternate position: | | | | | | |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

EXTRACTION TOOL FOR RECEPTACLE SIGNAL CONTACT

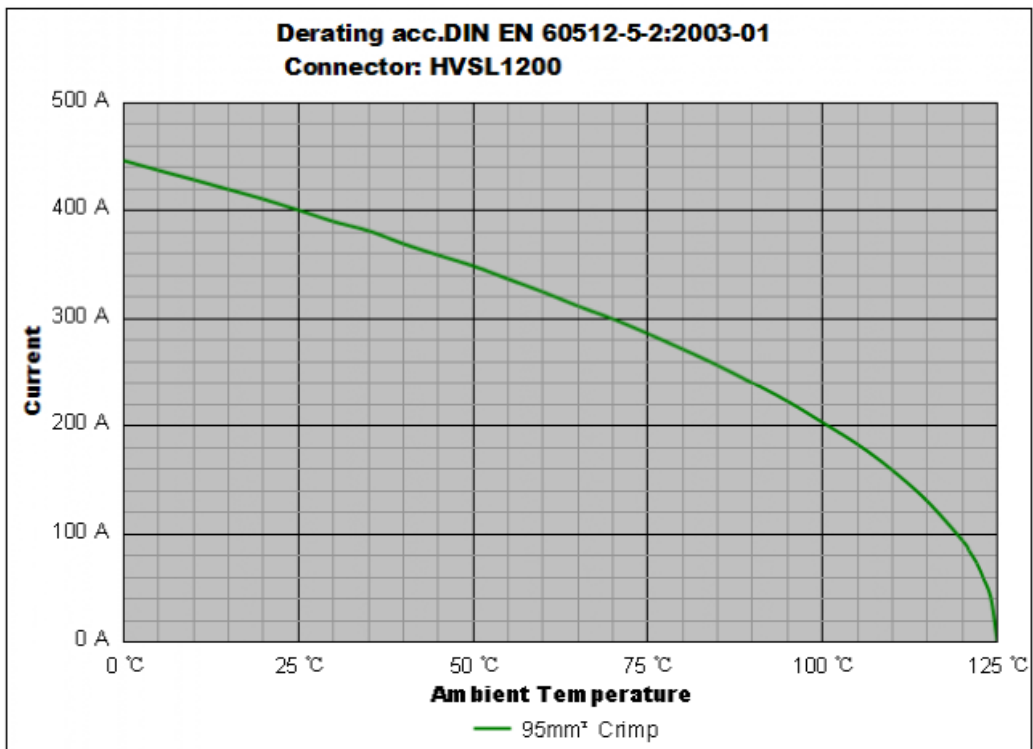
HVIL-contact Extraction tool: HVTOOL11R



HVSL 1200 | Temperature Rise



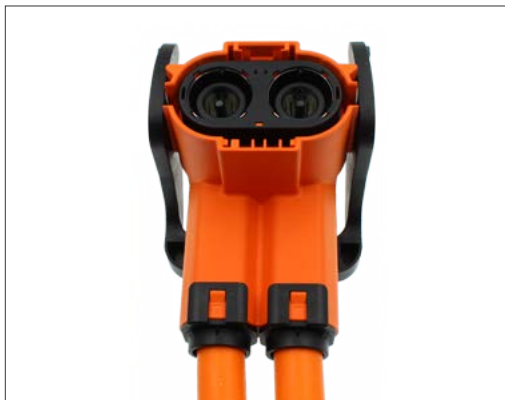
HVSL 1200 | Derating Curve



Remark: tests carried out on the complete connector.

Excel|Mate Plus (HVSL P 1200)

EXCEL | MATE Plus (P 1200)



High Voltage Safety Lock

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

External HVIL.

KEY FEATURES

With interlock solution

Sealing, IP67 (mated), IP6K9K

2-position available

Touch-proof, IP2XB

Multiple coding positions

APPLICATIONS

HEV Battery

Inverters

Junction boxes

Power distribution boxes

MECHANICAL

Durability ≥ 50 mating cycles

Wire range 70 to 95 mm²

ELECTRICAL

Rated voltage 1000V DC

Rated current 70mm² shield cable:
300A Max @ ambient temperature 70°C

95mm² shield cable:
400A Max @ ambient temperature 70°C

Insulator resistance > 200MΩ

Dielectric withstand voltage 3000V AC

ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

STANDARDS

USCAR-2

USCAR-37

LV-215

RoHS & REACH

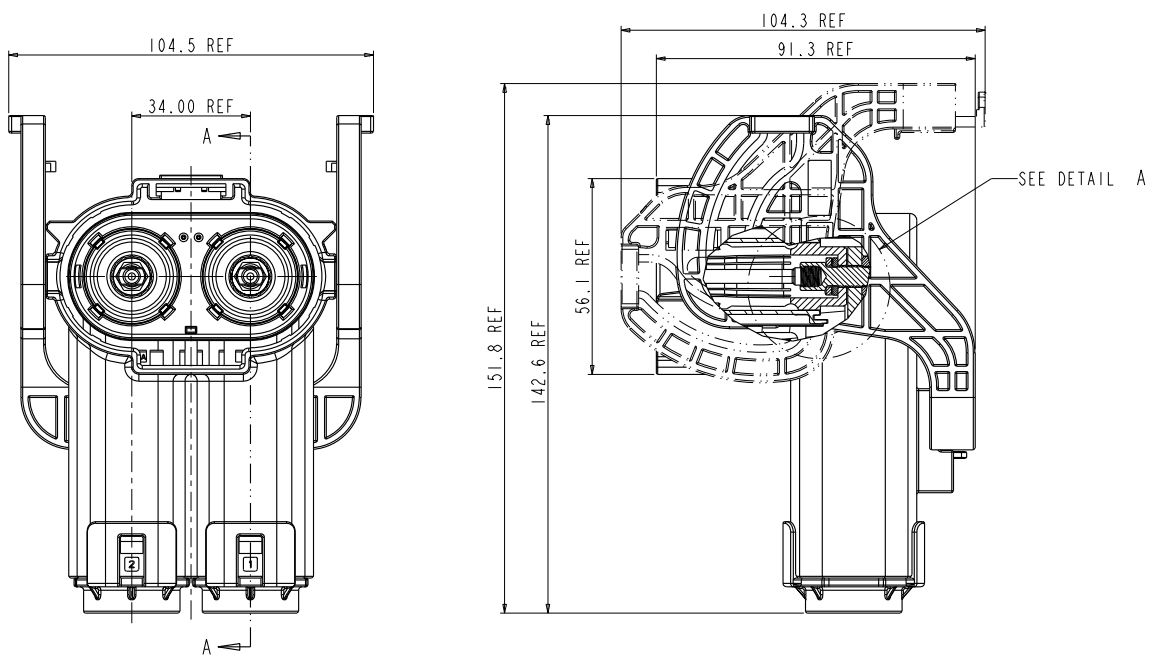
MATERIAL

Contacts Copper alloy with silver plating

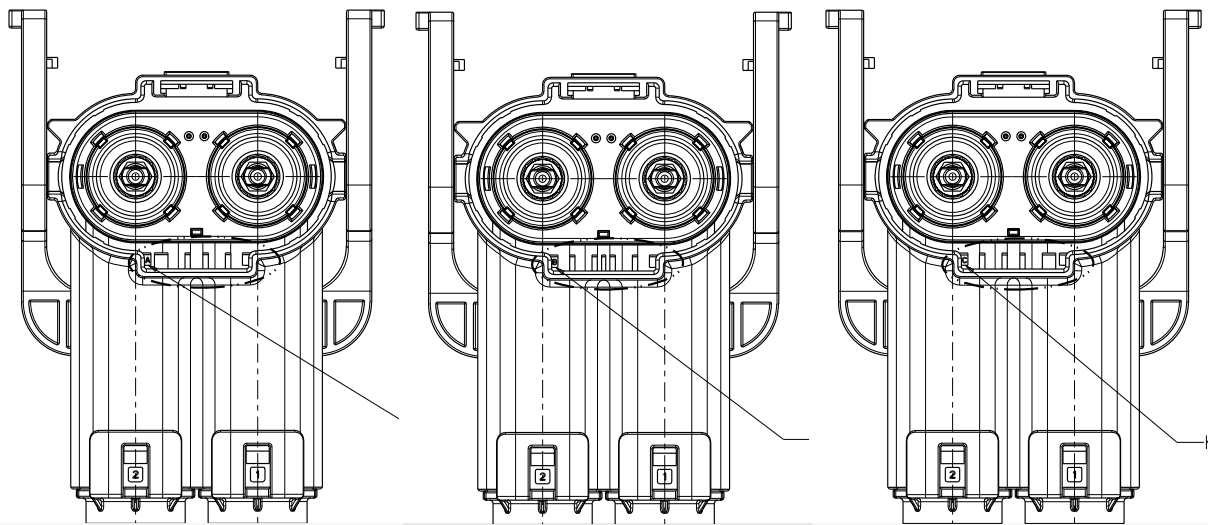
Housing PA66 + GF

Seal SR

2 PIN RIGHT ANGLE PLUG



INSERT ORIENTATIONS



Coding A

Coding B

Coding C

P/N

HVSL P 1200 08 2 A

HVSL P 1200 08 2 B

HVSL P 1200 08 2 C

HOW TO ORDER: PLUG

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

EXCEL | MATE Plus



High Voltage Safety Lock

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

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

KEY FEATURES

With interlock solution

RADSOK® Technology R4 version
10mm

AK compliance LV215

Sealing, IP67 (mated), IP6K9K

1 to 3 positions available

Touch-proof, IP2XB

Multiple coding positions

APPLICATIONS

HEV Battery

Inverters

Junction boxes

Power distribution boxes

MECHANICAL

Durability ≥ 50 mating cycles

Wire range 25 to 70 mm²

ELECTRICAL

Rated voltage 1000V DC

Rated current 250A Max @ ambient temperature 70°C

Insulator resistance $> 100M\Omega$

Dielectric withstand voltage 3000V AC

ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

STANDARDS

USCAR-2

USCAR-37

LV-215

RoHS & REACH

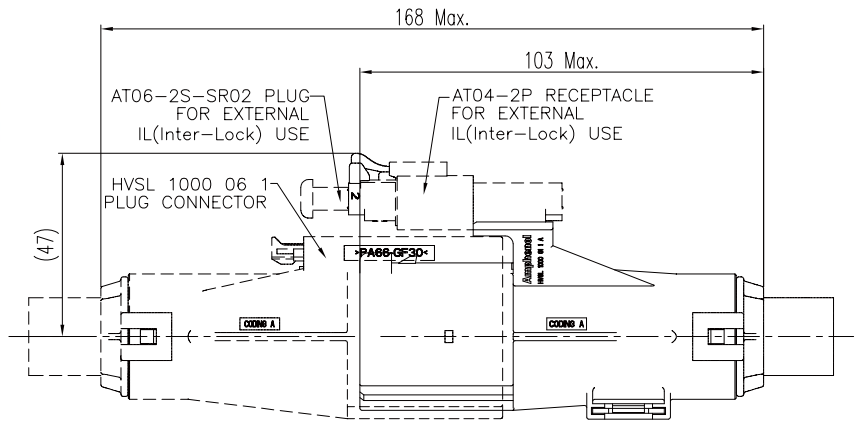
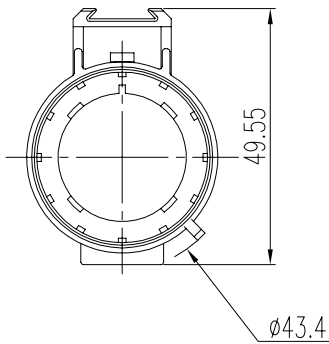
MATERIAL

Contacts Copper alloy with silver plating

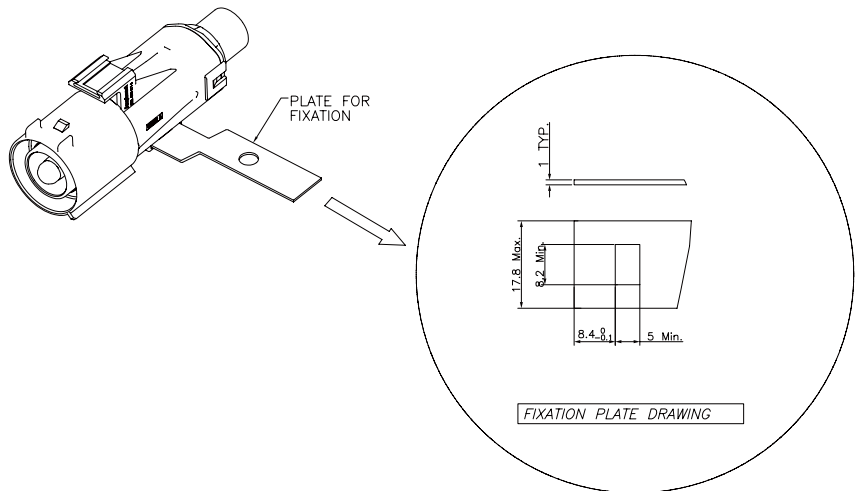
Housing PA66 + GF

Seal SR

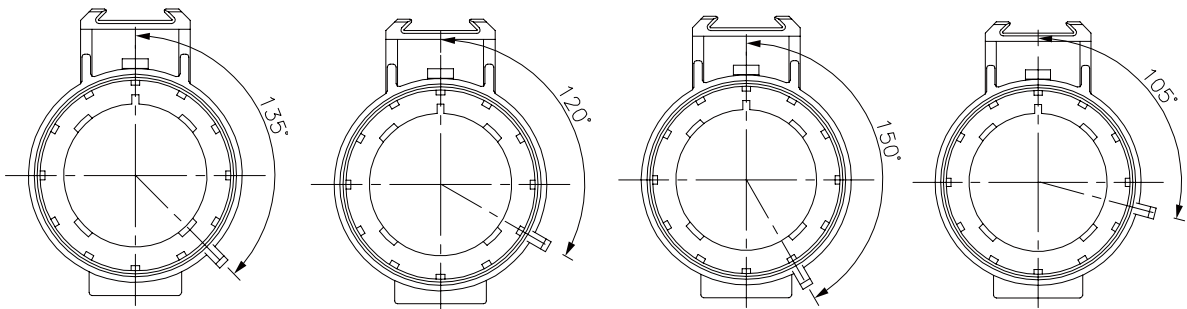
RECEPTACLE IN-LINE



MOUNTED GROOVE

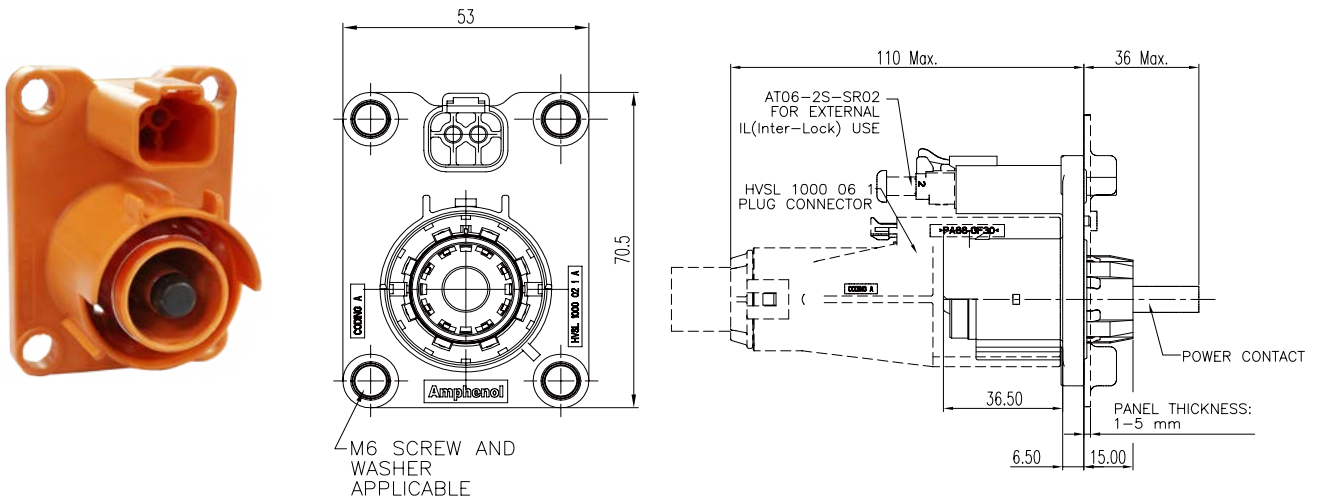


INSERT ORIENTATIONS

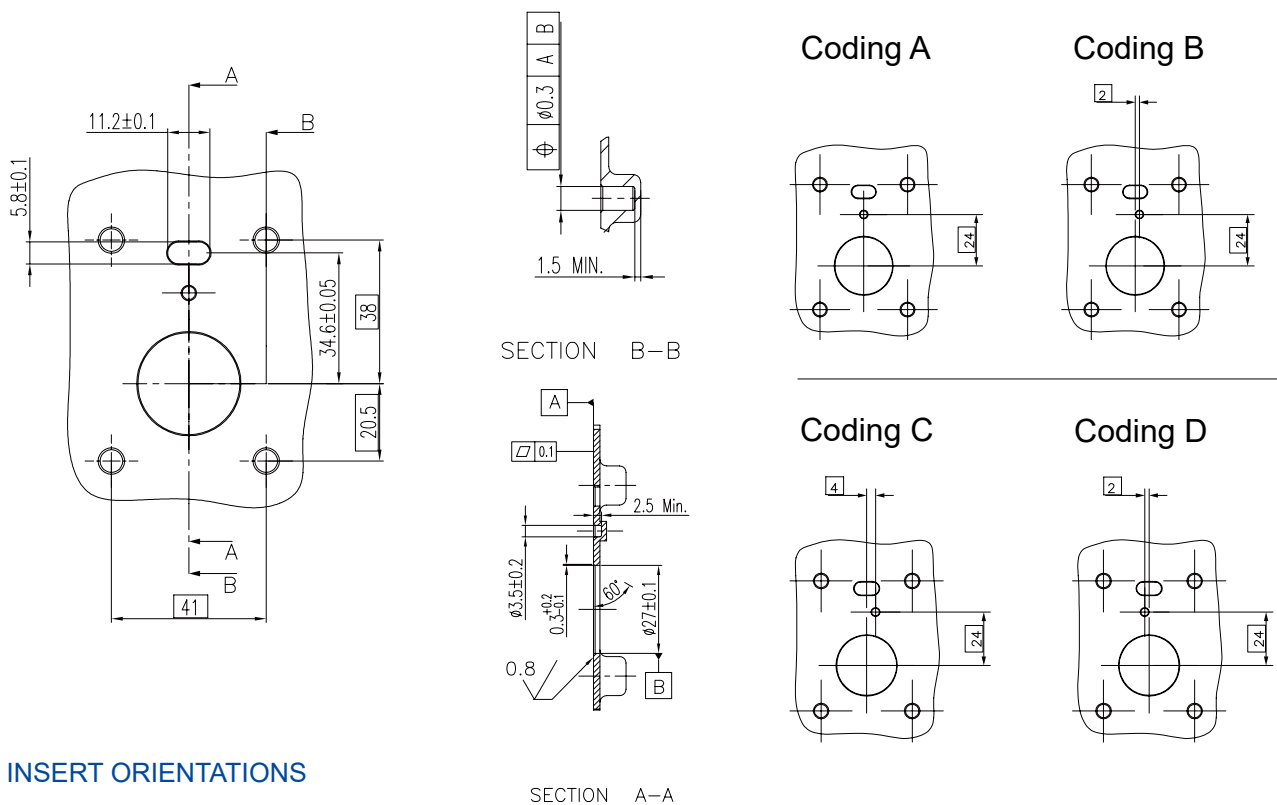


| | Coding A | Coding B | Coding C | Coding D |
|-----|-----------------|-----------------|-----------------|-----------------|
| P/N | HVSL1000 01 1 A | HVSL1000 01 1 B | HVSL1000 01 1 C | HVSL1000 01 1 D |

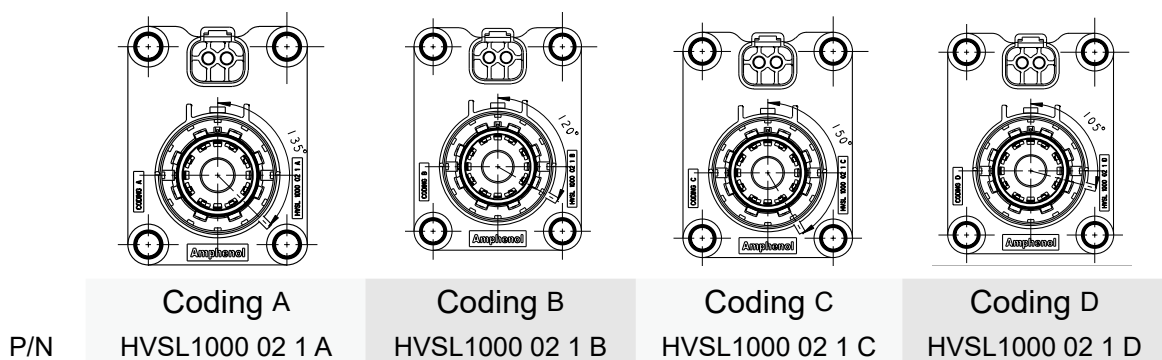
RECEPTACLE BOX MOUNTED WITH INTERLOCK



PANEL MOUNTING DIMENSIONS

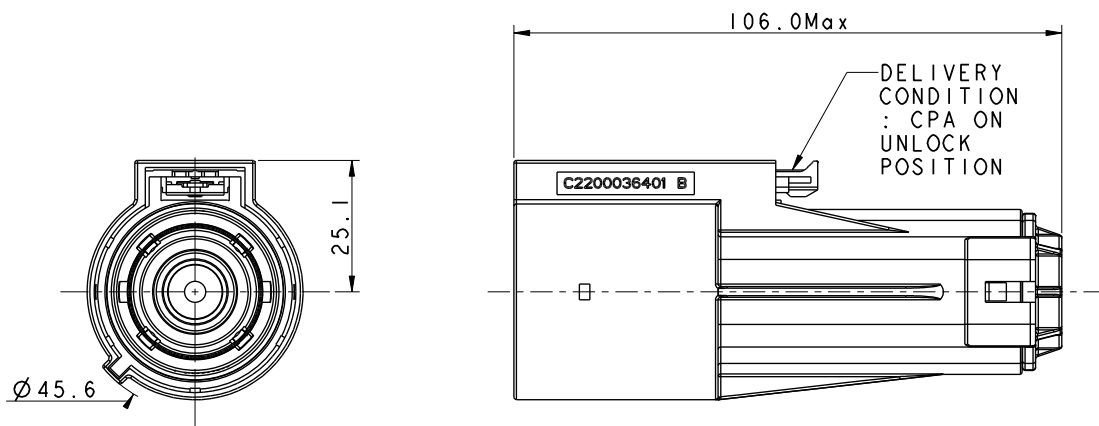


INSERT ORIENTATIONS

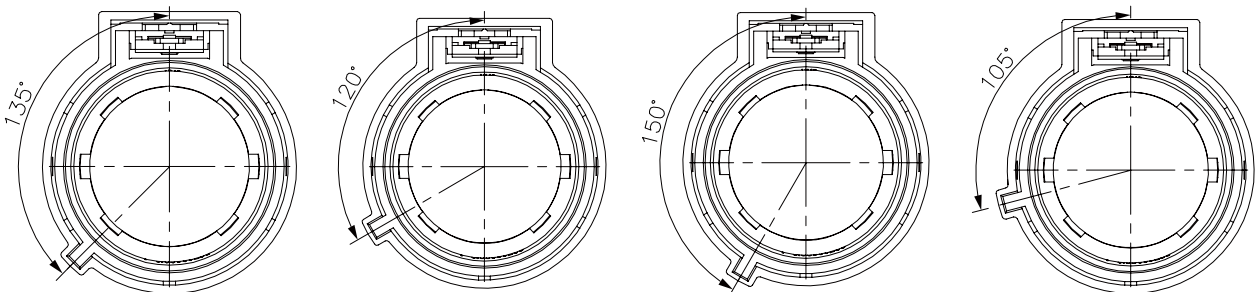


Excel|Mate Plus (HVSL 1000)

PLUG

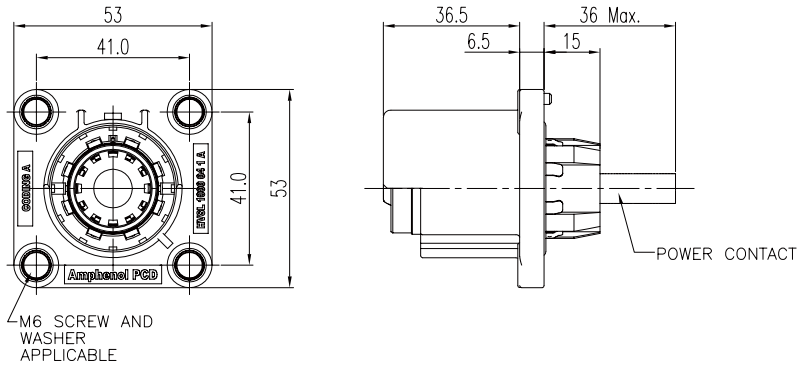


INSERT ORIENTATIONS

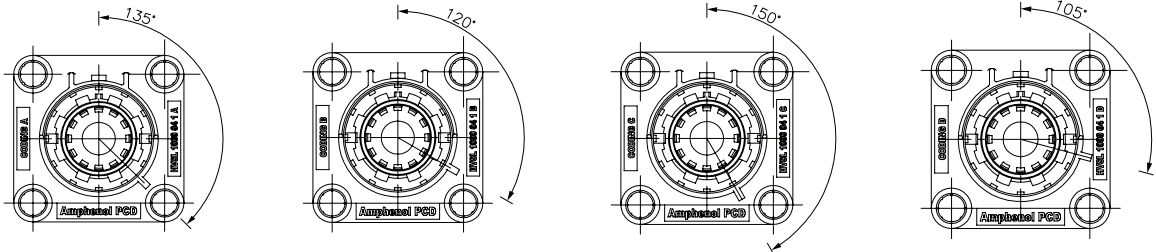


| | Coding A | Coding B | Coding C | Coding D |
|-----|-----------------|-----------------|-----------------|-----------------|
| P/N | HVSL1000 06 1 A | HVSL1000 06 1 B | HVSL1000 06 1 C | HVSL1000 06 1 D |

RECEPTACLE BOX MOUNTED **WITHOUT INTERLOCK**

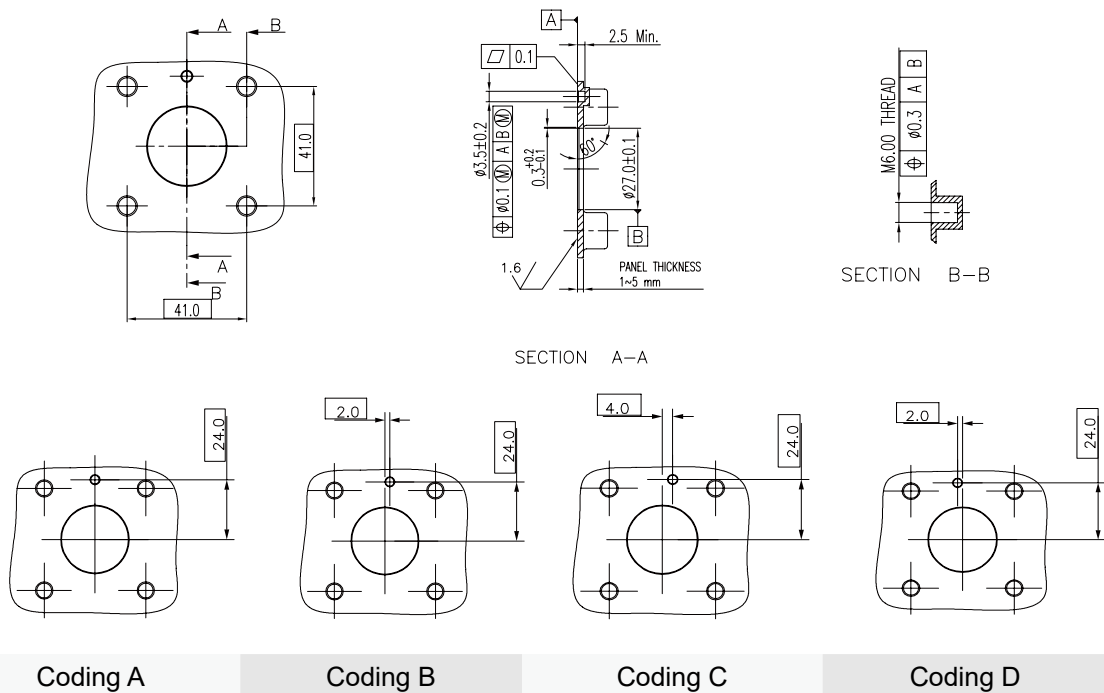


INSERT ORIENTATIONS



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

PANEL MOUNTING DIMENSIONS



Coding A

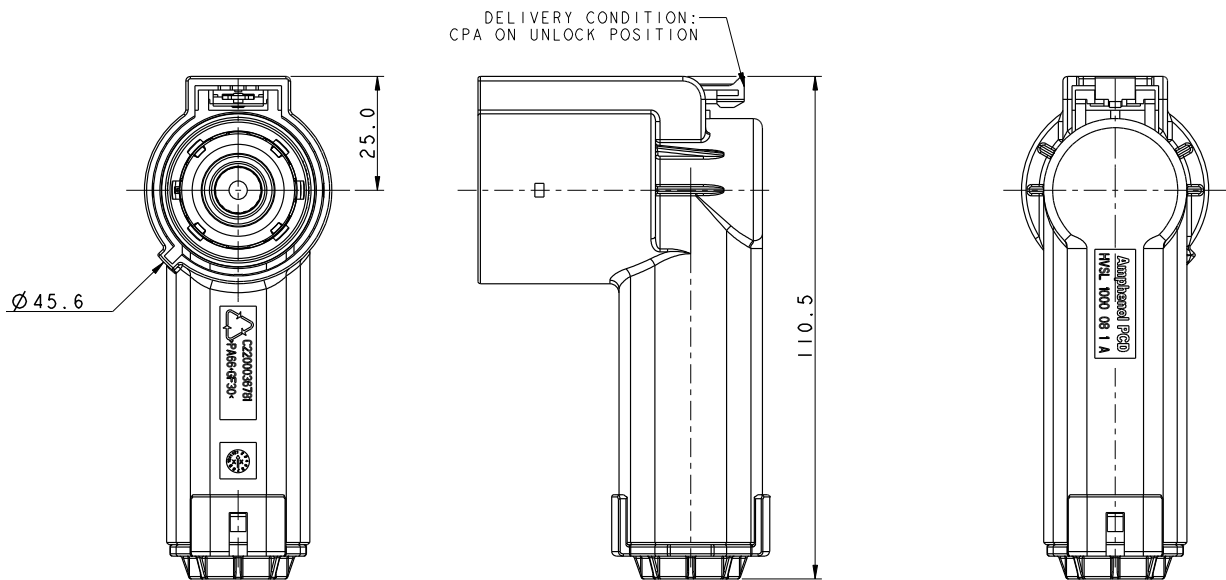
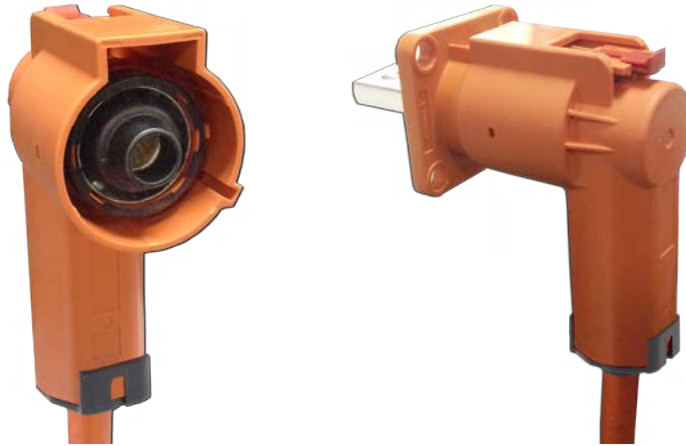
Coding B

Coding C

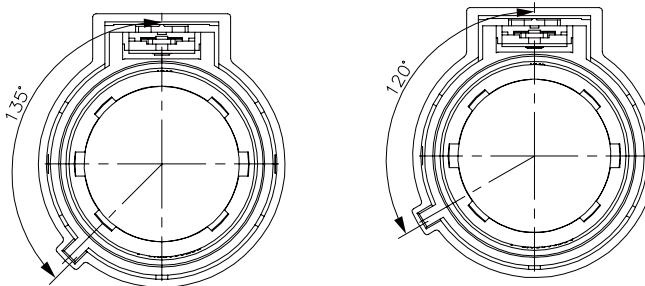
Coding D

ExcellMate Plus (HVSL 1000)

PLUG RIGHT ANGLE

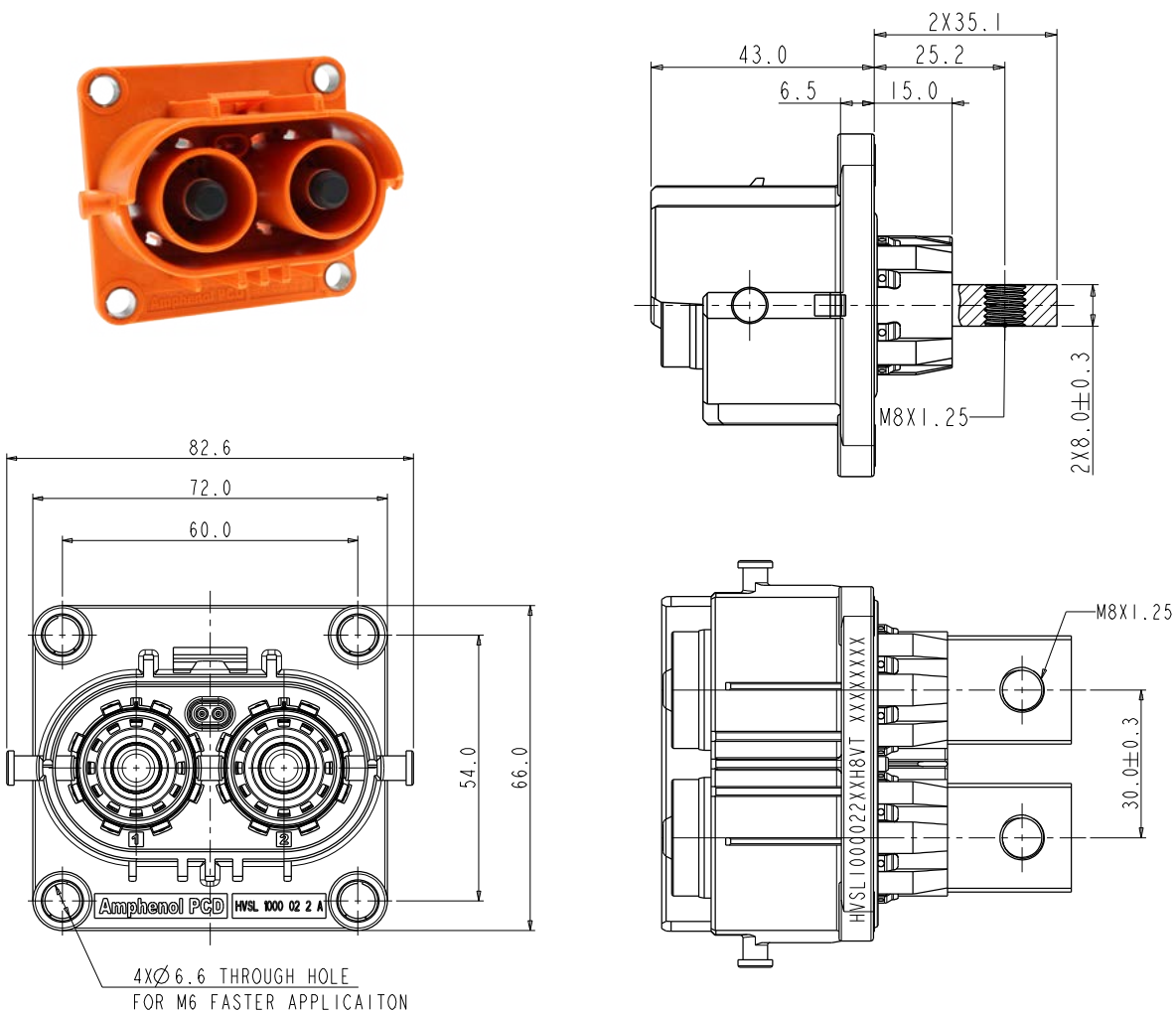


INSERT ORIENTATIONS

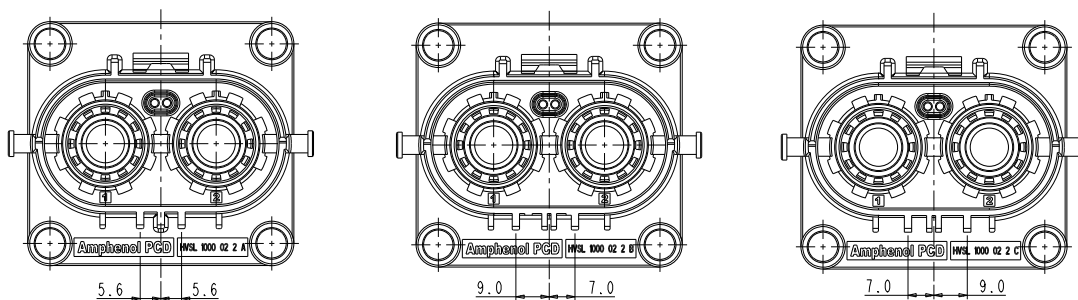


| | Coding A | Coding B |
|-----|-----------------|-----------------|
| P/N | HVSL1000 08 1 A | HVSL1000 08 1 B |

2 PIN RECEPTACLE BOX MOUNTED

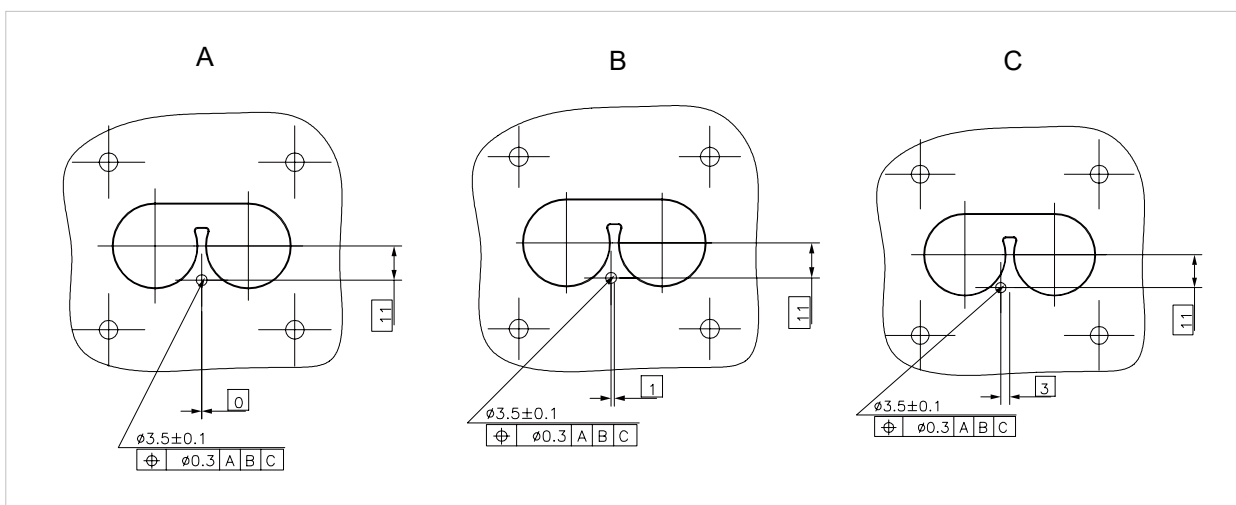
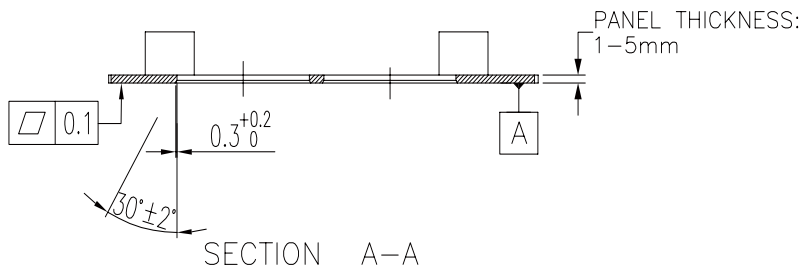
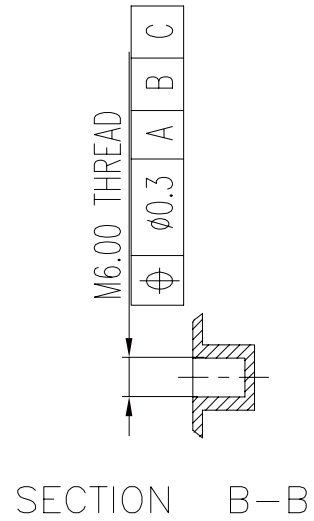
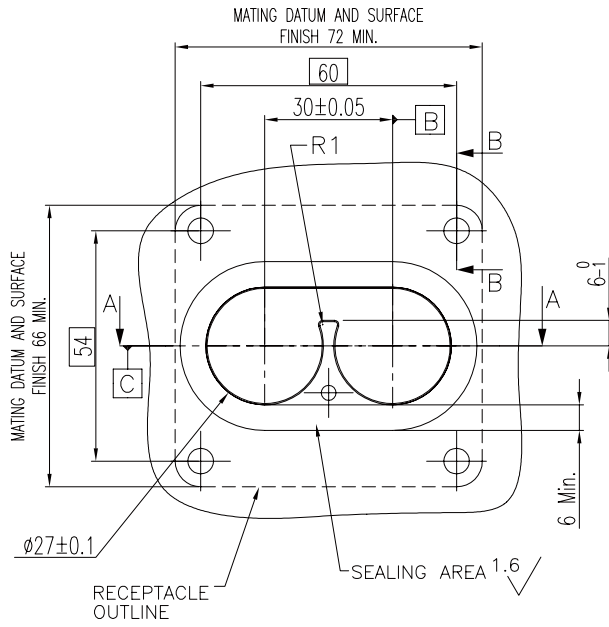


INSERT ORIENTATIONS

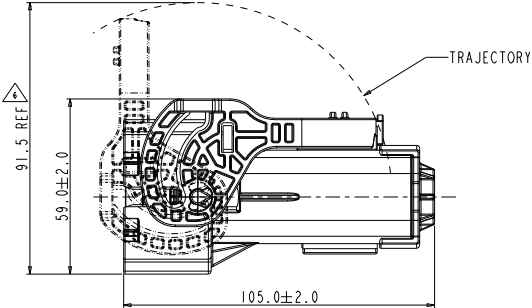
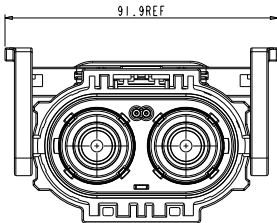


| | Coding A | Coding B | Coding C |
|-----|-----------------|-----------------|-----------------|
| P/N | HVSL1000 02 2 A | HVSL1000 02 2 B | HVSL1000 02 2 C |

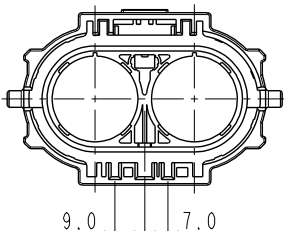
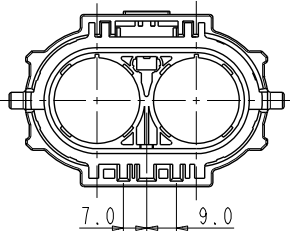
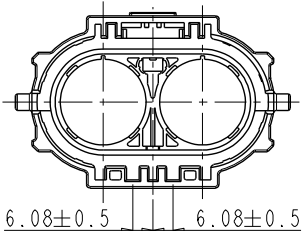
PANEL MOUNTING DIMENSIONS



2 PIN PLUG

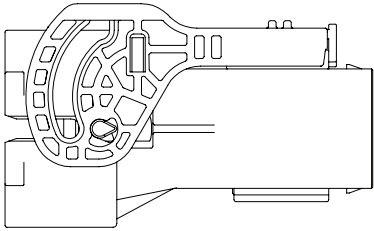


INSERT ORIENTATIONS

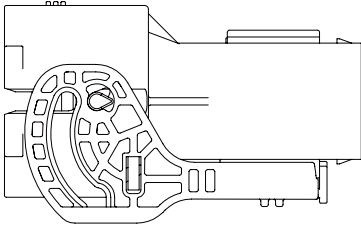


| | Coding A | Coding B | Coding C |
|-----|-----------------|-----------------|-----------------|
| P/N | HVSL1000 06 2 A | HVSL1000 06 2 B | HVSL1000 06 2 C |

LEVER POSITION

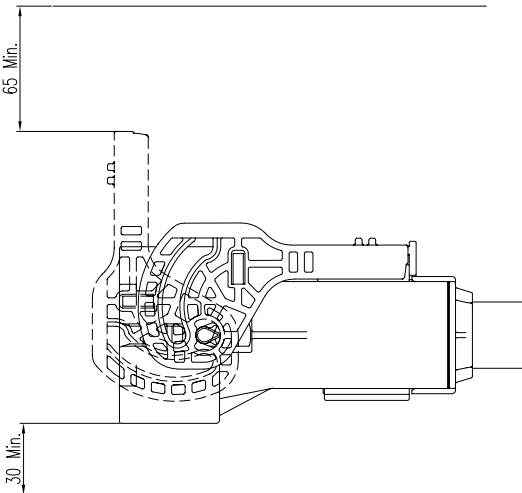


STANDARD LEVER



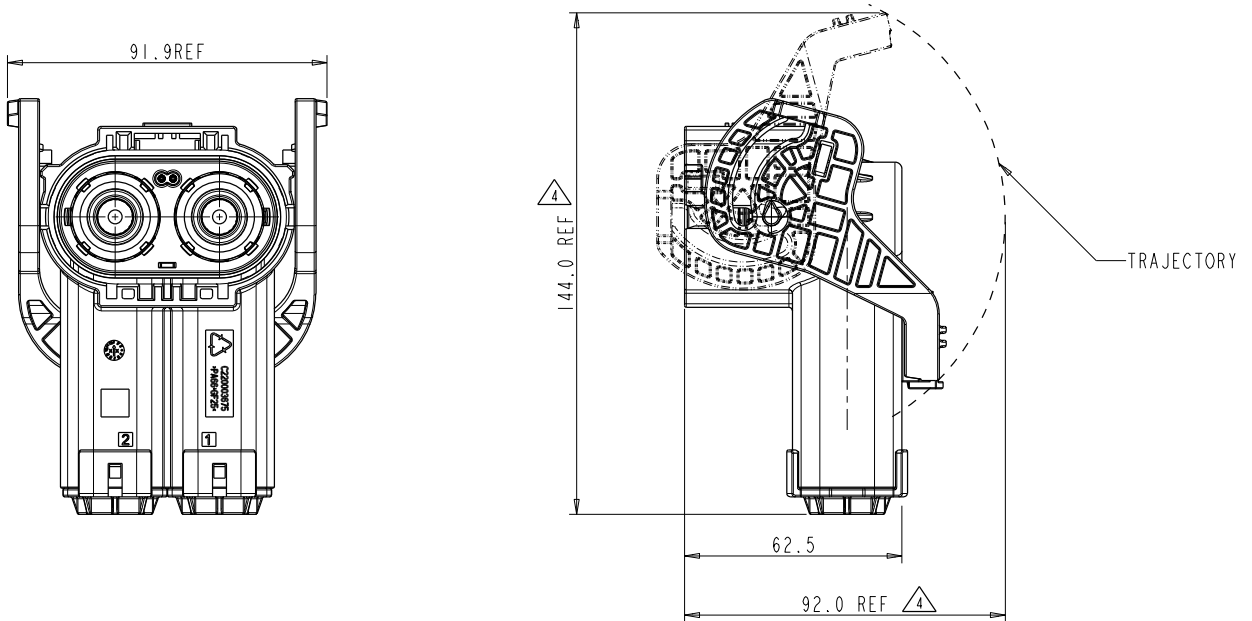
REVERSE LEVER

INSTALLATION CLEARANCE

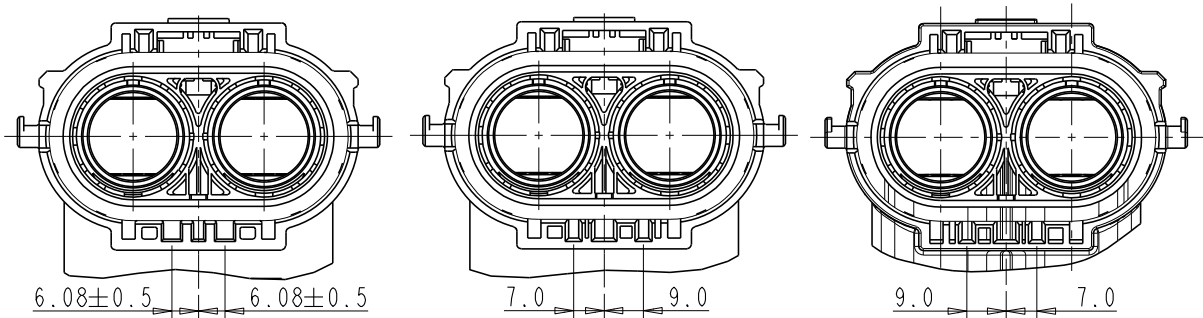


ExcellMate Plus (HVSL 1000)

2 PIN PLUG RIGHT ANGLE

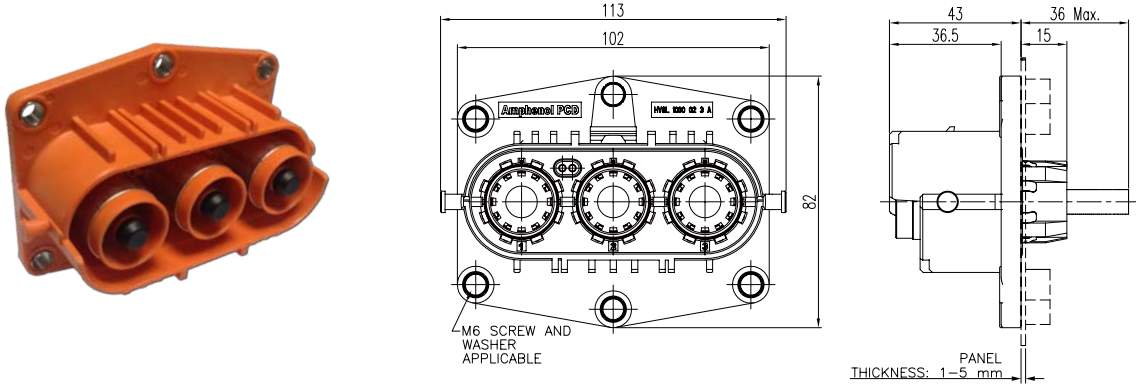


INSERT ORIENTATIONS

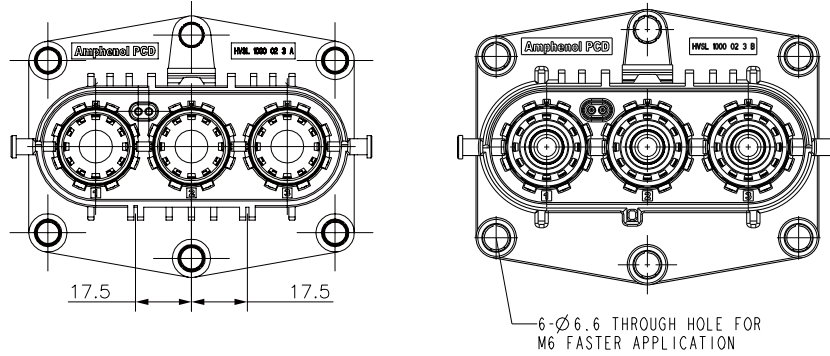


| | Coding A | Coding B | Coding C |
|-----|-----------------|-----------------|-----------------|
| P/N | HVSL1000 08 2 A | HVSL1000 08 2 B | HVSL1000 08 2 C |

3 PIN RECEPTACLE BOX MOUNTED

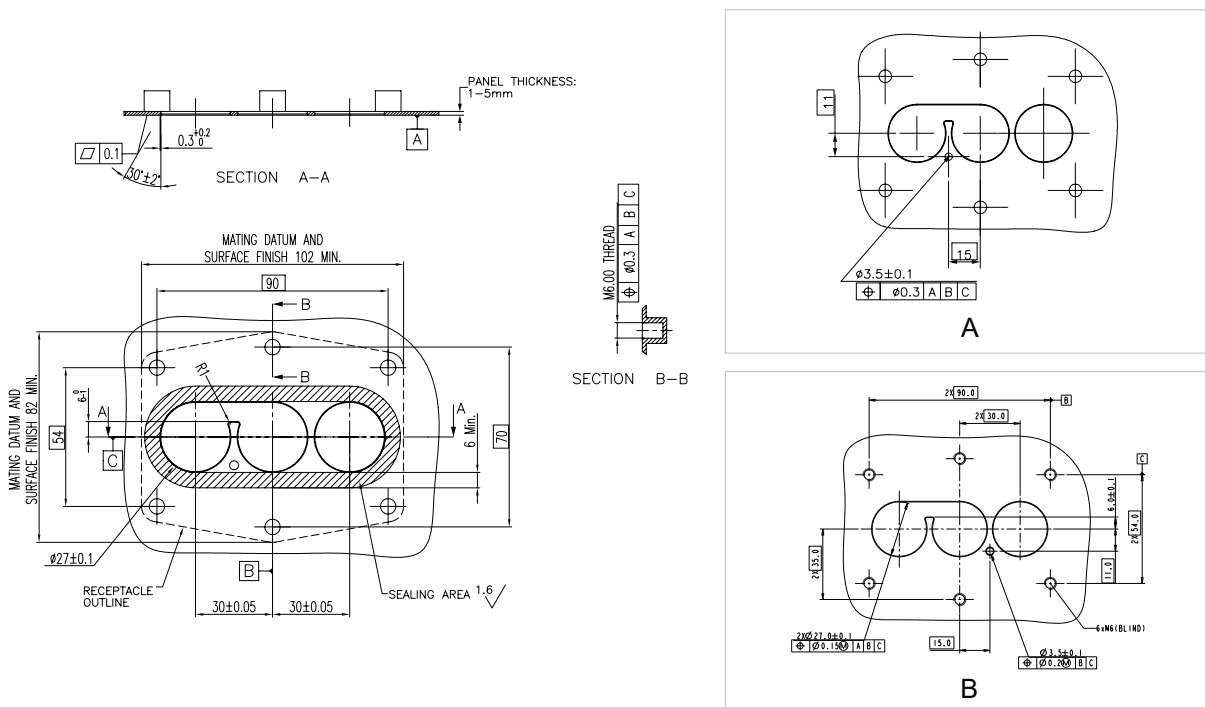


INSERT ORIENTATIONS



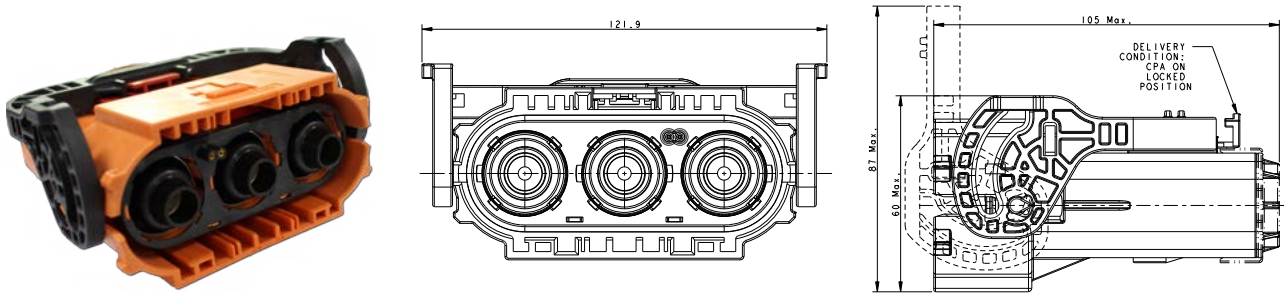
| P/N | Coding A HVSL1000 02 3 A | Coding B HVSL1000 02 3 B |
|-----|-----------------------------|-----------------------------|
|-----|-----------------------------|-----------------------------|

PANEL MOUNTING DIMENSIONS

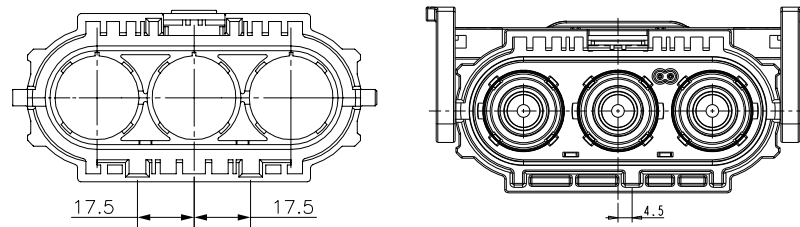


Excel|Mate Plus (HVSL 1000)

3 PIN PLUG

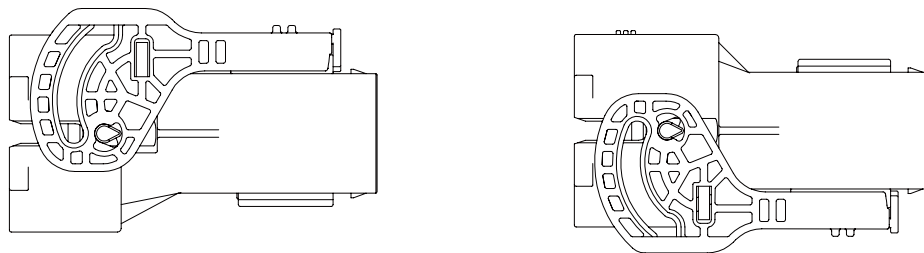


INSERT ORIENTATIONS



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

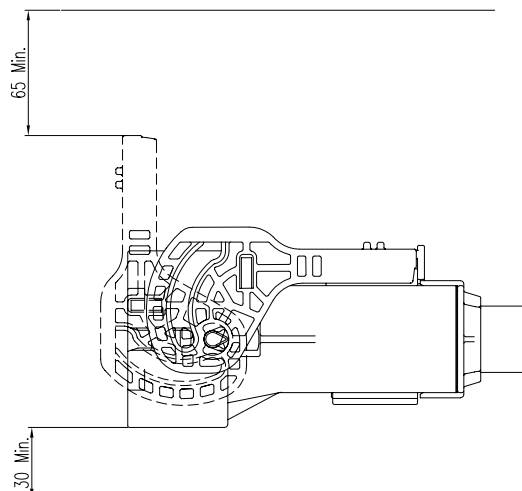
LEVER POSITION



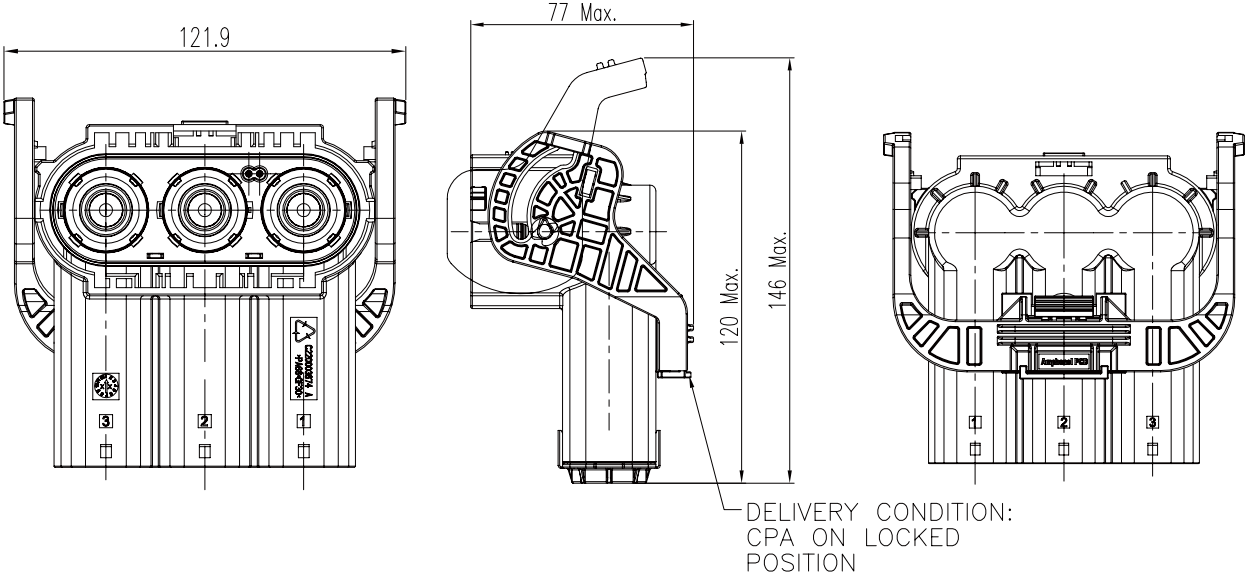
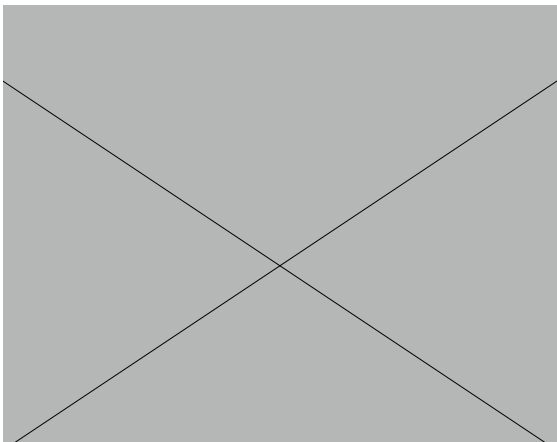
STANDARD LEVER

REVERSE LEVER

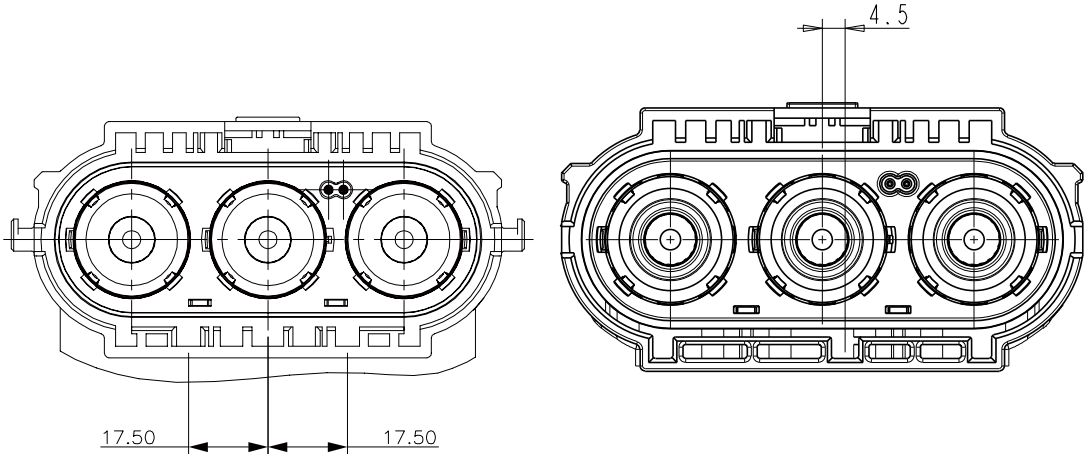
INSTALLATION CLEARANCE



3 PIN PLUG RIGHT ANGLE



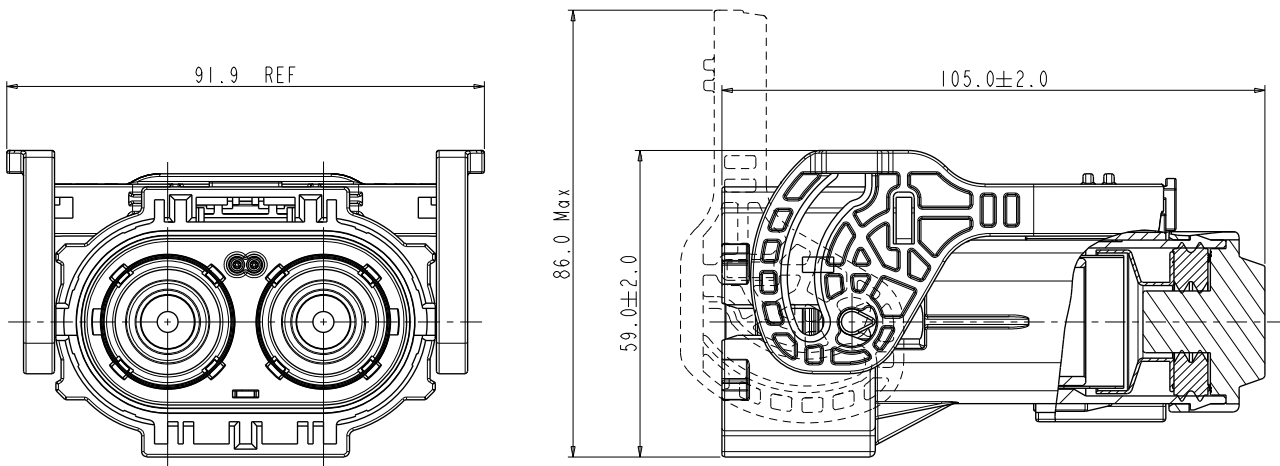
INSERT ORIENTATIONS



Coding A
P/N HVSL1000 08 3 A

Coding B
P/N HVSL1000 08 3 B

DUMMY PLUG



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

Product type:

06: Straight plug

Position:

2: 2 position

Coding / Alternate position:

A: Coding A

B: Coding B

C: Coding C

Interlock:

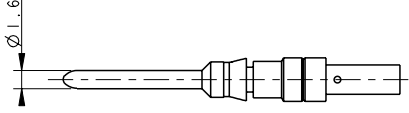
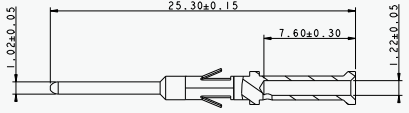
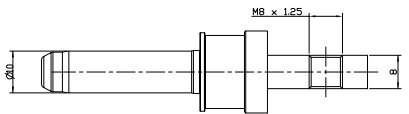
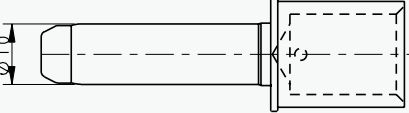
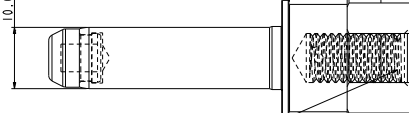
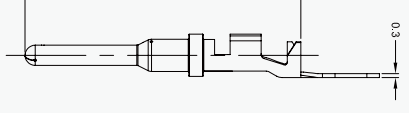
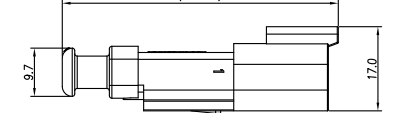
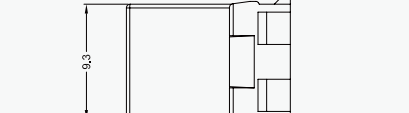
0: Without interlock | 1: With interlock

Dummy plug:

S1

ATTACHMENT: CONTACTS FOR RECEPTACLE

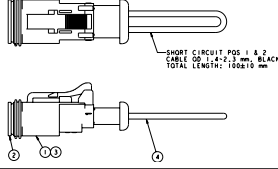
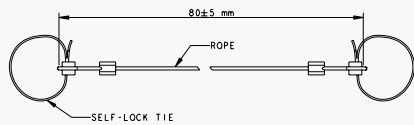
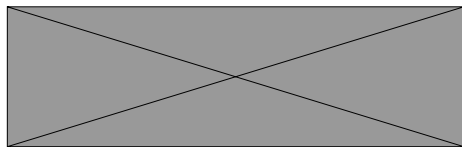
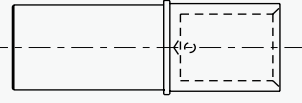
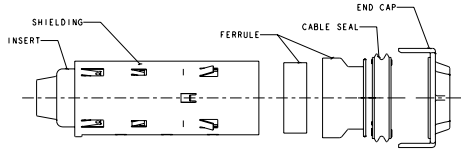
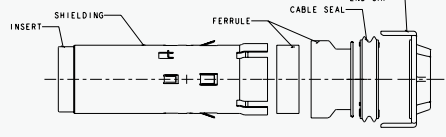
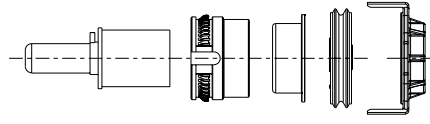
All connectors include contacts. For extra contacts, please order them separately (ref: P/N below)

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

CONTACTS FOR RECEPTACLE

ATTACHMENT: CONTACTS FOR PLUG

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

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

HVSL 1000 | PRODUCT SERIES OVERVIEW

Single pin
(HVIL External)



In-line receptacle



In-line plug

Single pin
(Without HVIL)



2 pin
(HVIL Integrated)



3 pin
(HVIL Integrated)



EXTRACTION TOOL FOR RECEPTACLE SIGNAL CONTACT

HVIL-contact Extraction tool: HVTOOL11R



HOW TO ORDER (HVSL 1000)

HOW TO ORDER: PLUG

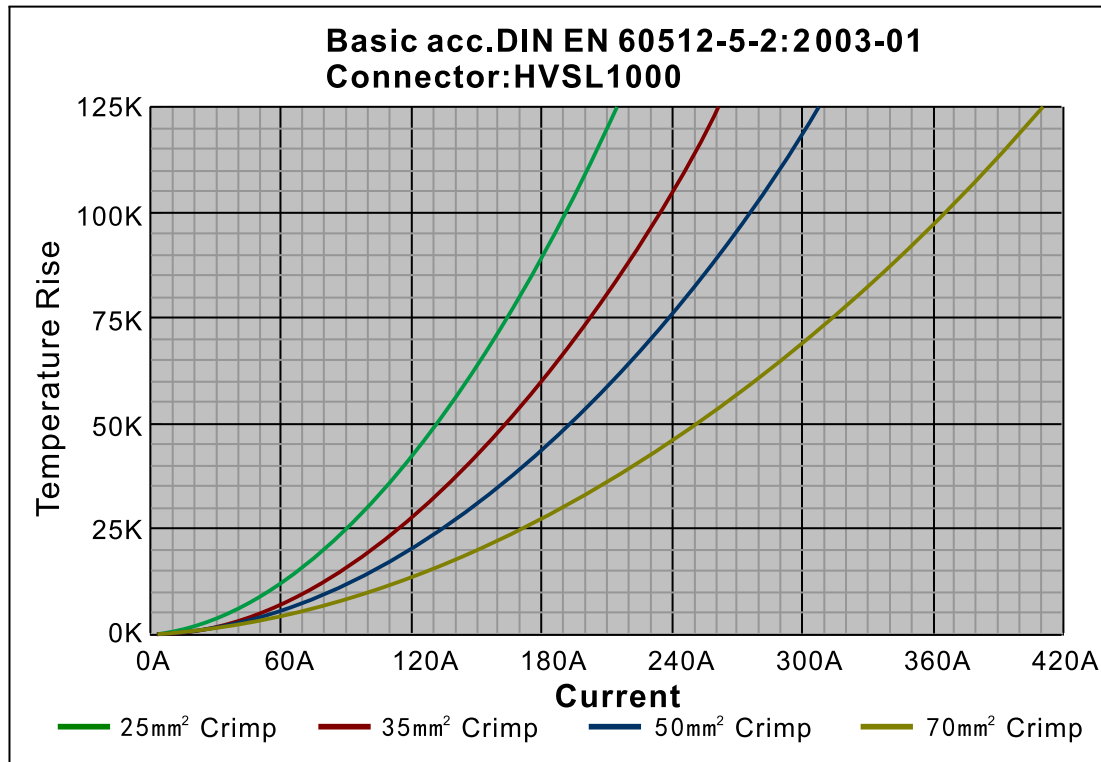
| | | | | | | |
|---|----------|----|---|---|---|----|
| | HVSL1000 | 06 | 1 | A | 0 | 35 |
| Product type: | | | | | | |
| 06: Straight plug 08: Right angle plug | | | | | | |
| Position: | | | | | | |
| 1: 1 position 2: 2 position 3: 3 position | | | | | | |
| Coding / Alternate position: | | | | |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

HOW TO ORDER: RECEPTACLE

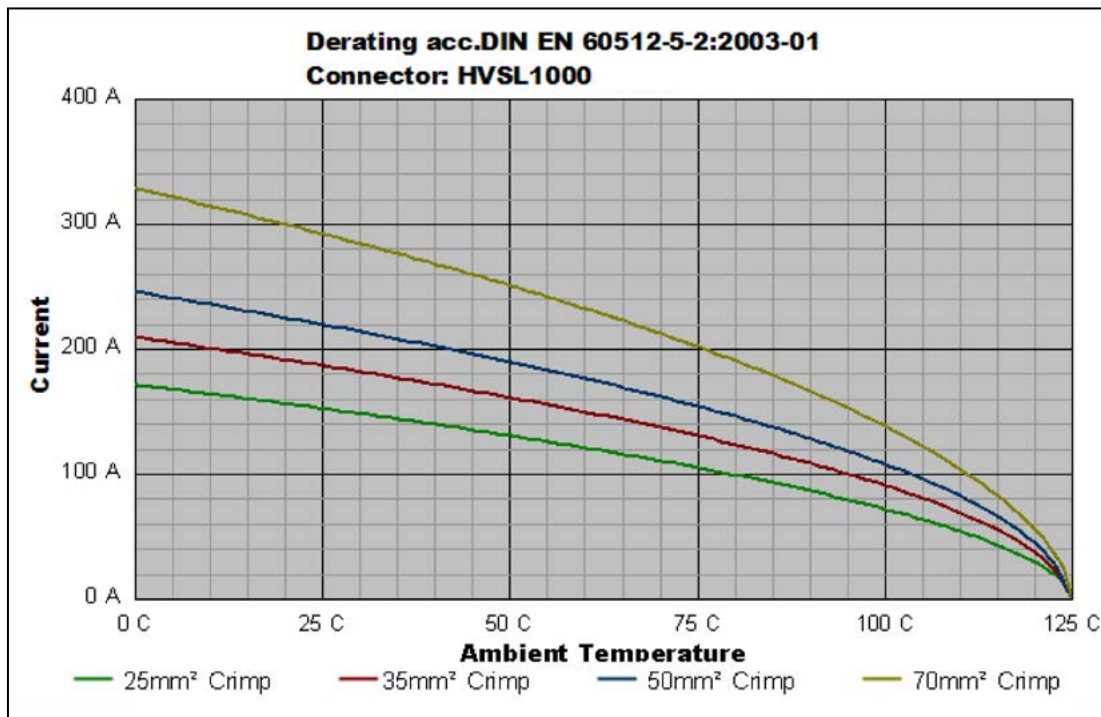
| | | | | | | |
|---|----------|----|---|---|---|----|
| | HVSL1000 | 01 | 1 | A | 0 | 35 |
| Product type: | | | | | | |
| 01: In-line receptacle | | | | | | |
| Position: | | | | | | |
| 1: 1 position | | | | | | |
| Coding / Alternate position: | | | | | | |
| A: Coding A | | | | | | |
| B: Coding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

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

HVSL 1000 | Temperature Rise



HVSL 1000 | Derating Curve



Remark: tests carried out on the complete connector.

Excel|Mate Plus (HVSL P 1000)

EXCEL | MATE Plus (P 1000)



High Voltage Safety Lock

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

External HVIL.

KEY FEATURES

With interlock solution

Sealing, IP67 (mated), IP6K9K

2-position available

Touch-proof, IP2XB

Multiple coding positions

APPLICATIONS

HEV Battery

Inverters

Junction boxes

Power distribution boxes

MECHANICAL

Durability ≥ 50 mating cycles

Wire range 50 to 70 mm²

ELECTRICAL

Rated voltage 1000V DC

Rated current 70mm² shield cable:
250A Max @ ambient temperature 70°C

50mm² shield cable:
200A Max @ ambient temperature 70°C

Insulator resistance $> 200M\Omega$

Dielectric withstand voltage 3000V AC

ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

STANDARDS

USCAR-2

USCAR-37

LV-215

RoHS & REACH

MATERIAL

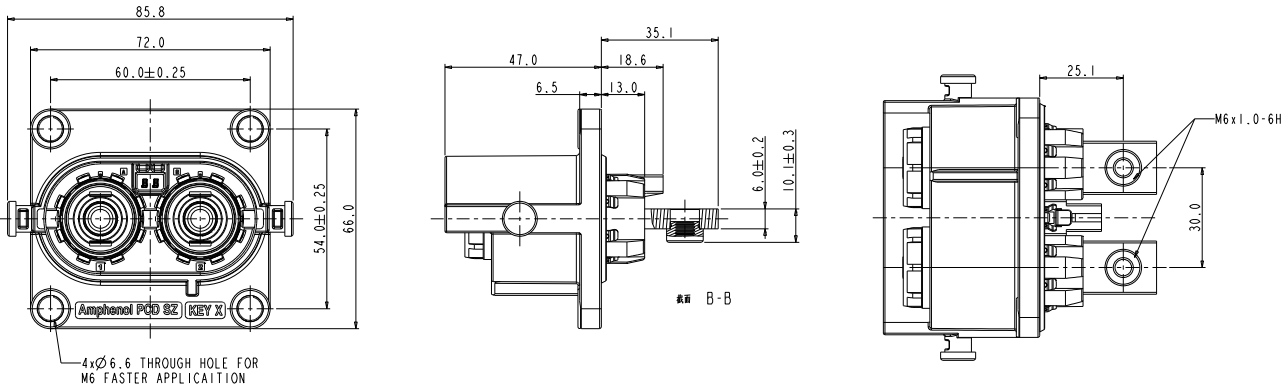
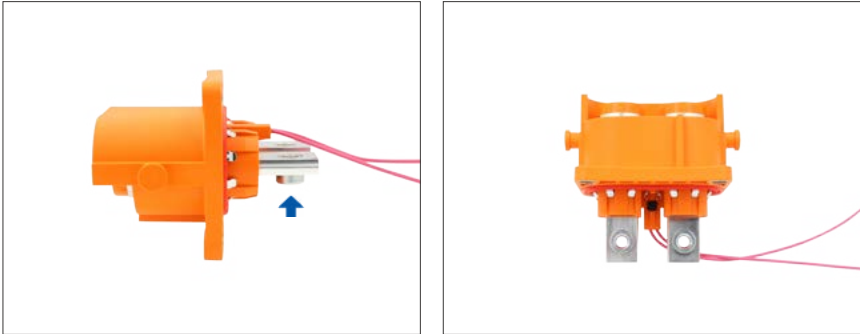
Contacts Copper alloy with silver plating

Housing PA66 + GF

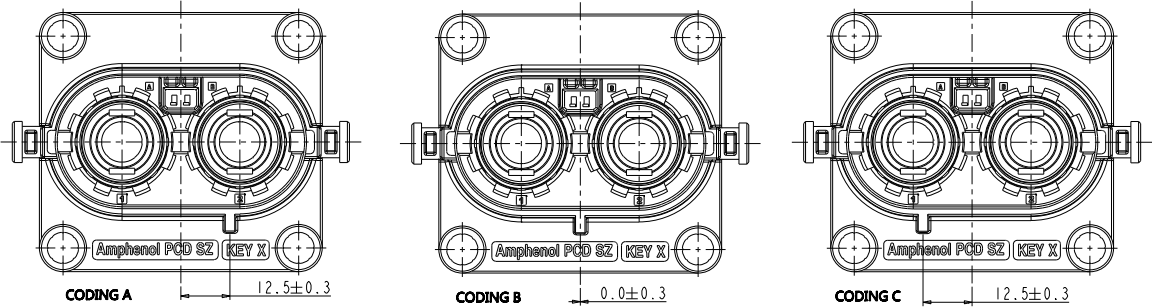
Seal SR

2 PIN RECEPTACLE

Signal PIN and TPA need to be purchased separately.

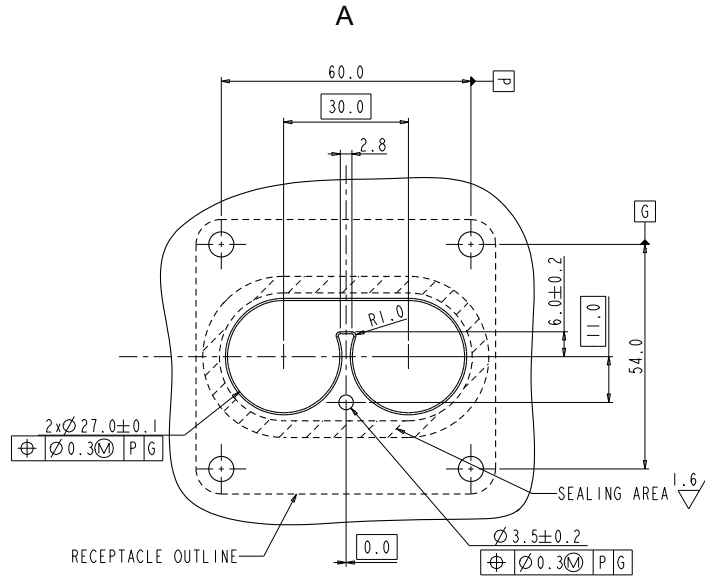


INSERT ORIENTATIONS

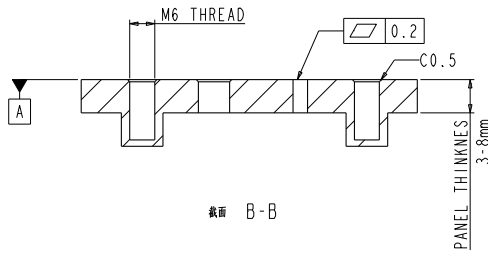


| | Coding A | Coding B | Coding C |
|-----|--------------------|--------------------|--------------------|
| P/N | HVSL P 1000 02 2 A | HVSL P 1000 02 2 B | HVSL P 1000 02 2 C |

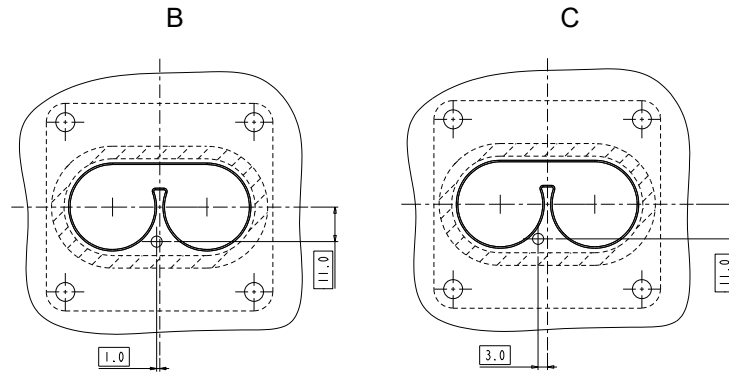
PANEL MOUNTING DIMENSIONS



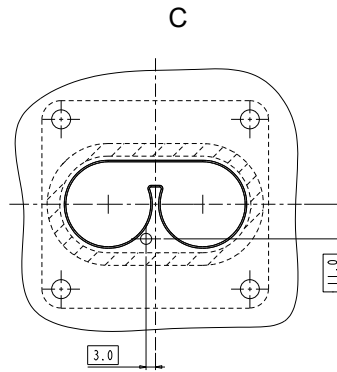
CODING A INTERFACE VIEW
ALL OTHER DIMENSIONS SAME AS CODING A



截面 B-B

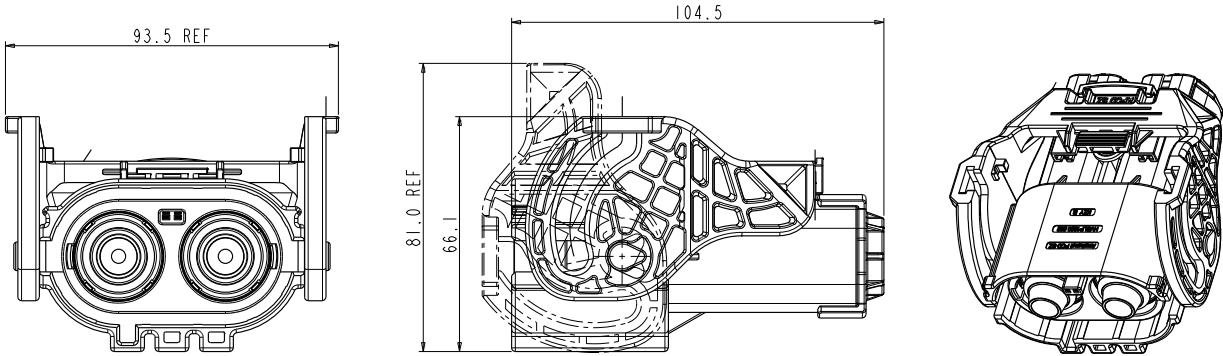


CODING B INTERFACE VIEW
ALL OTHER DIMENSIONS SAME AS CODING B

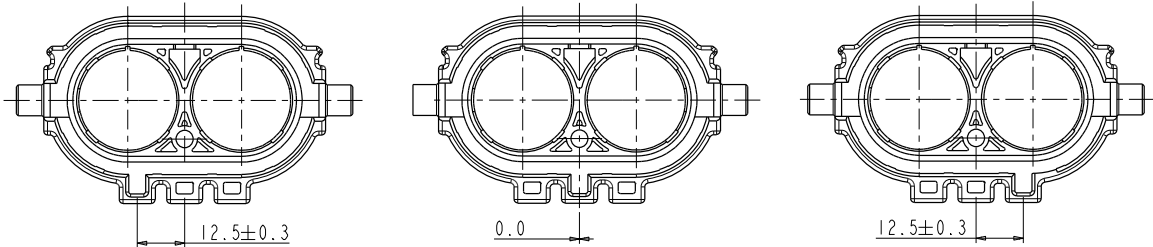


CODING C INTERFACE VIEW
ALL OTHER DIMENSIONS SAME AS CODING C

2 PIN STRAIGHT PLUG



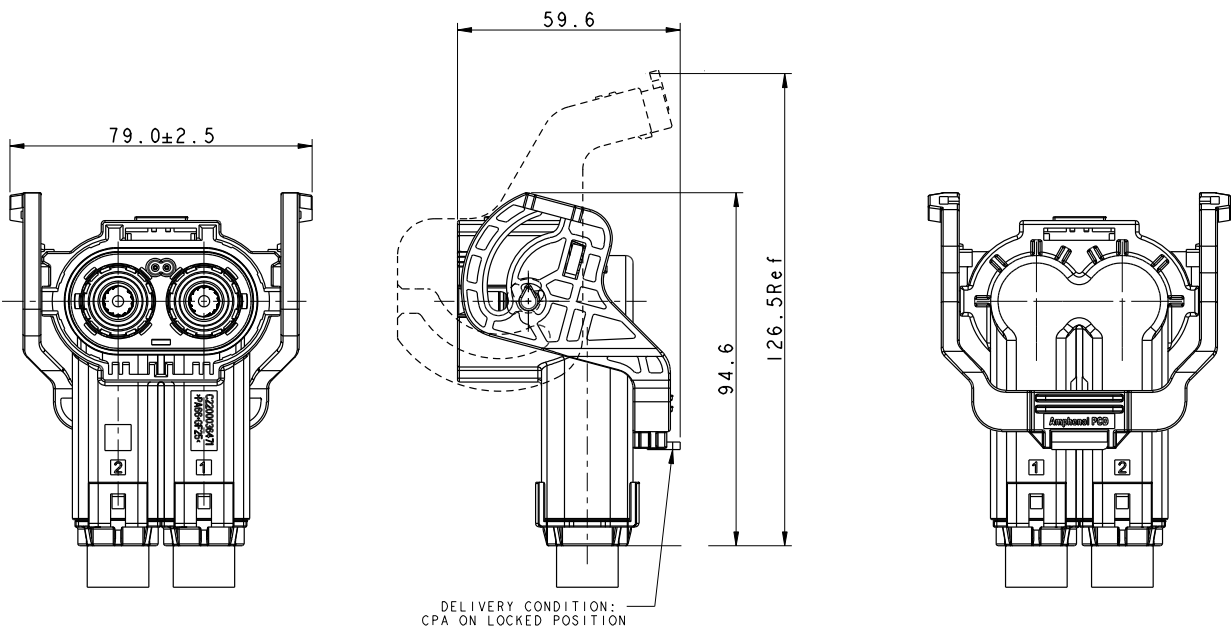
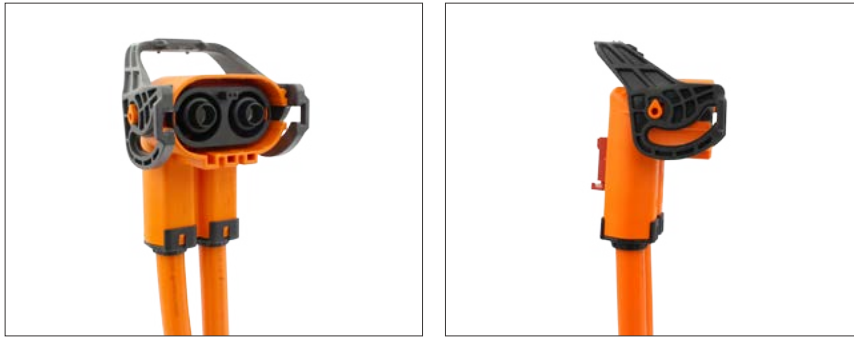
INSERT ORIENTATIONS



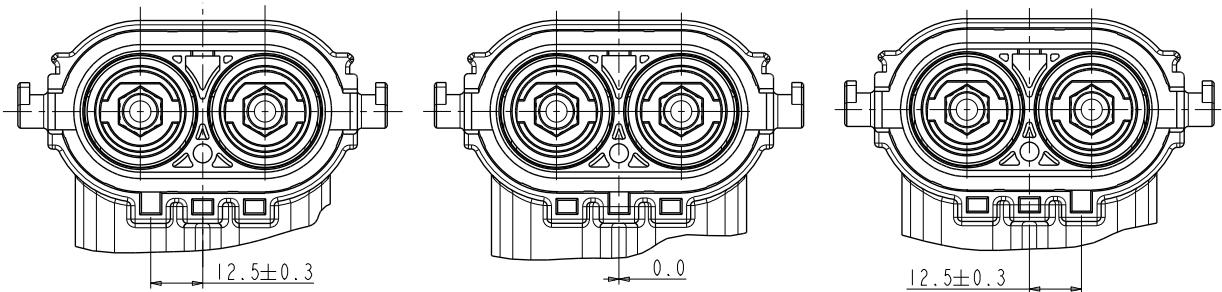
| | Coding A | Coding B | Coding C |
|-----|--------------------|--------------------|--------------------|
| P/N | HVSL P 1000 06 2 A | HVSL P 1000 06 2 B | HVSL P 1000 06 2 C |

ExcelMate Plus (HVSL P 1000)

2 PIN RIGHT ANGLE PLUG



INSERT ORIENTATIONS



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

HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

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

Excel|Mate S (HVSL 800)

ExcelMate S (HVSL800)



EXCEL | MATE S

EXCEL | MATE S is a 2 pin and 3 pin connector with a current carrying capacity from 120 to 200A and 25 to 50 mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

No tool required to unmate

Sealing, IP67 , IP6K9K

Touch-proof, IP2XB

Multiple coding positions

CPA available

MECHANICAL

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

ELECTRICAL

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

ENVIRONMENTAL

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

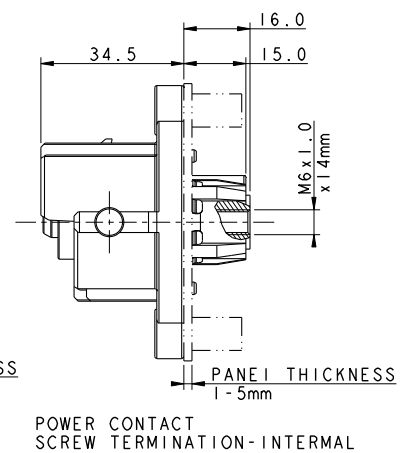
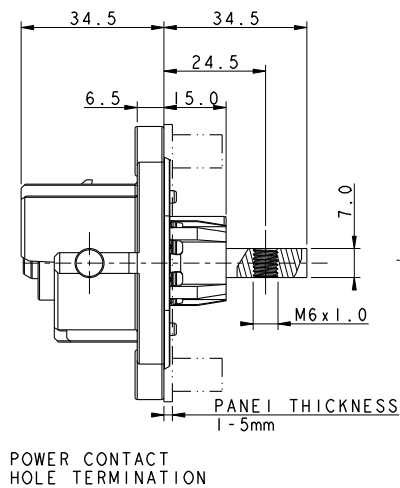
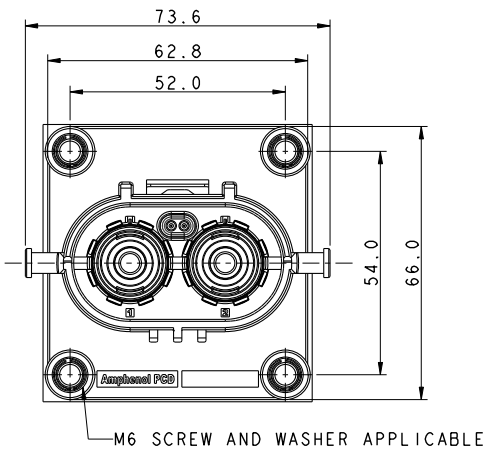
STANDARDS

| |
|----------|
| USCAR-2 |
| USCAR-37 |
| LV-215 |
| RoHS |

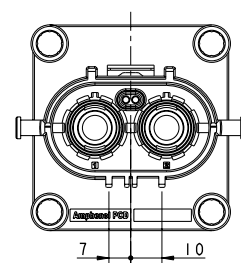
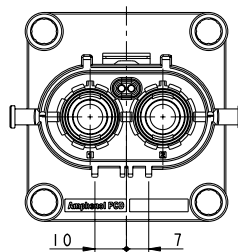
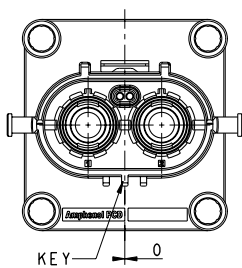
MATERIAL

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

2 PIN RECEPTACLE



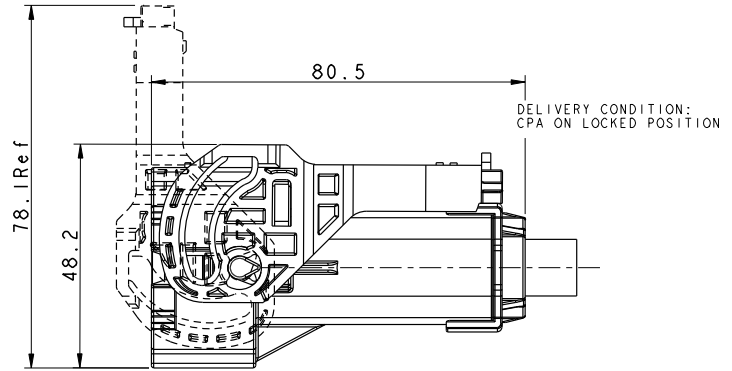
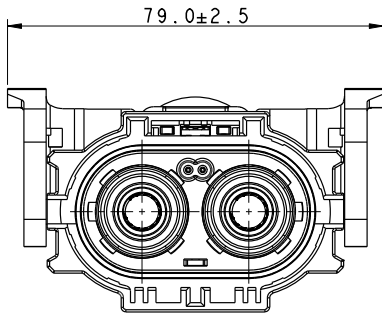
INSERT ORIENTATIONS



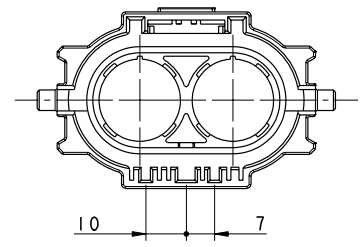
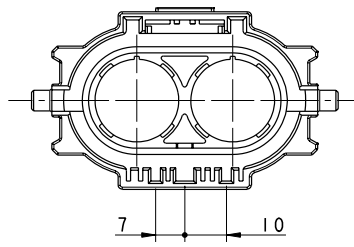
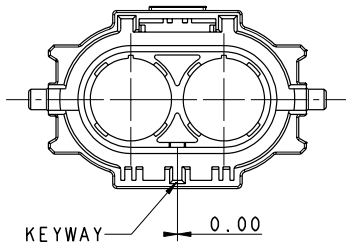
| | Coding A | Coding B | Coding C |
|-----|----------------|----------------|----------------|
| P/N | HVSL800 02 2 A | HVSL800 02 2 B | HVSL800 02 2 C |

Excel|Mate S (HVSL 800)

2 PIN STRAIGHT PLUG



INSERT ORIENTATIONS

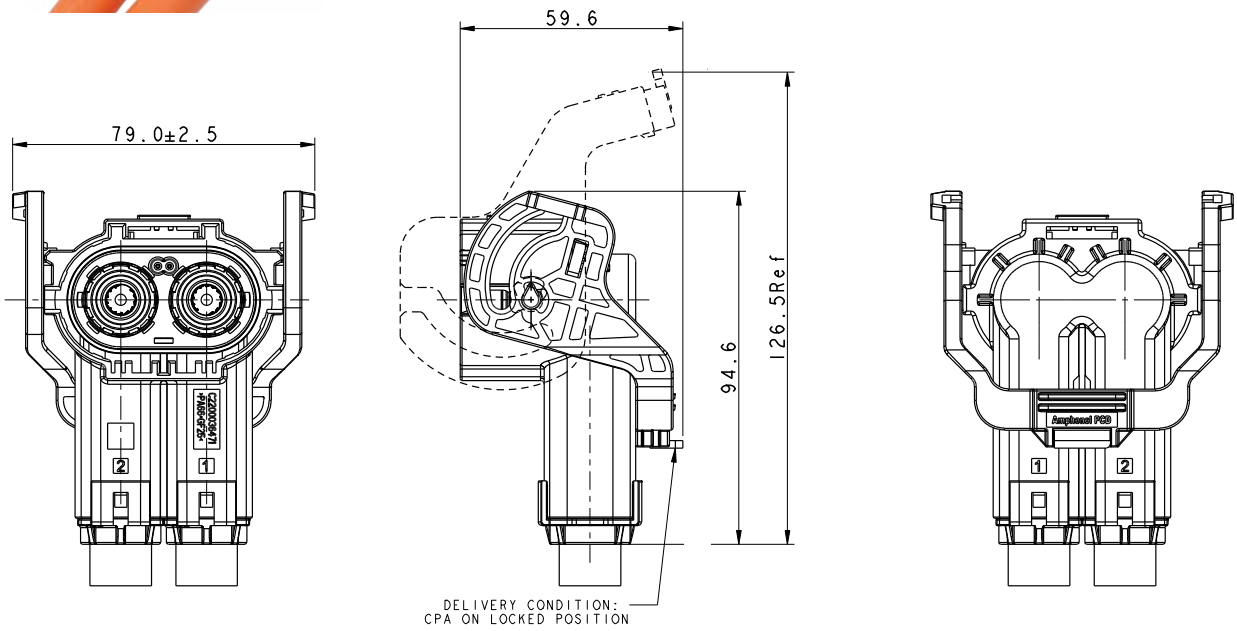


P/N Coding A
HVSL800 06 2 A

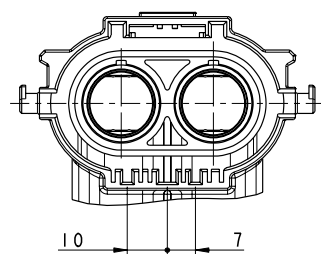
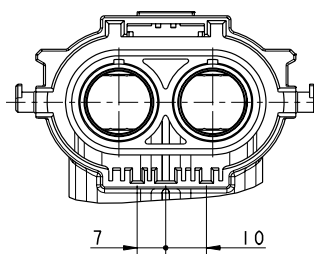
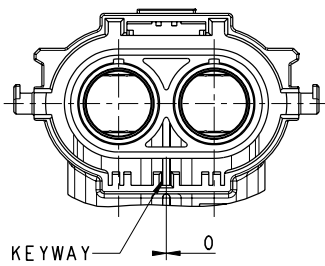
Coding B
HVSL800 06 2 B

Coding C
HVSL800 06 2 C

2 PIN RIGHT ANGLE PLUG



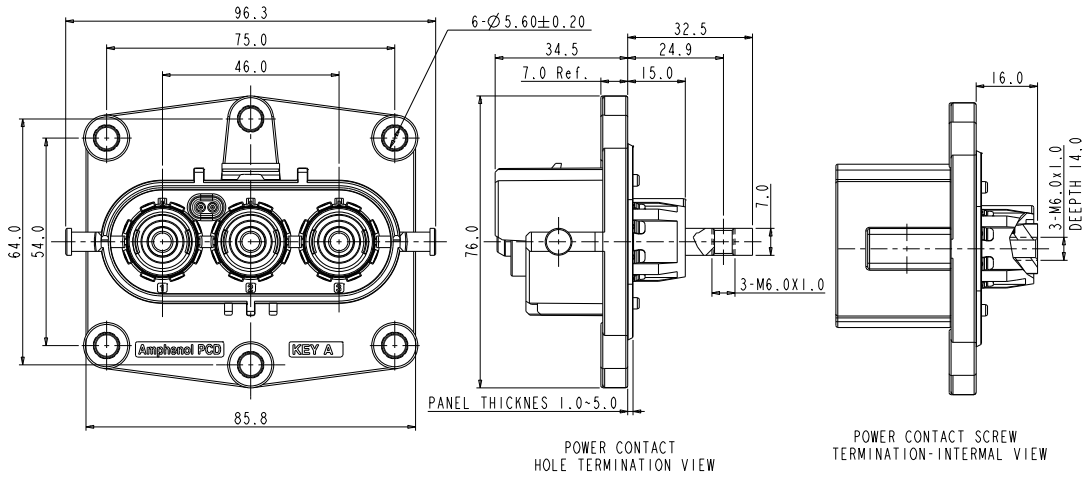
INSERT ORIENTATIONS



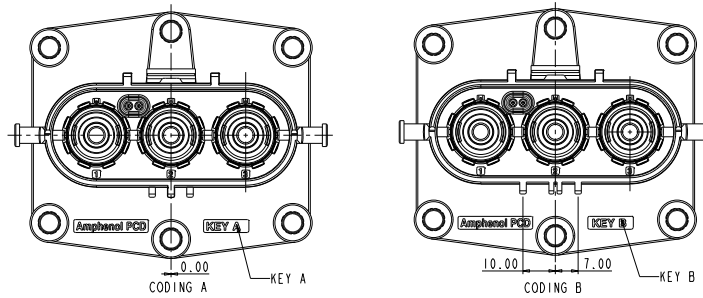
| | Coding A | Coding B | Coding C |
|-----|----------------|----------------|----------------|
| P/N | HVSL800 08 2 A | HVSL800 08 2 B | HVSL800 08 2 C |

Excel|Mate S (HVSL 800)

3 PIN RECEPTACLE

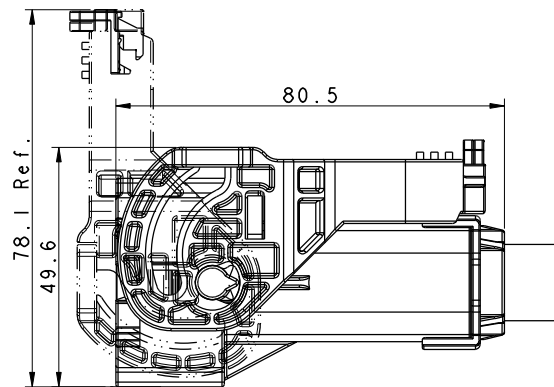
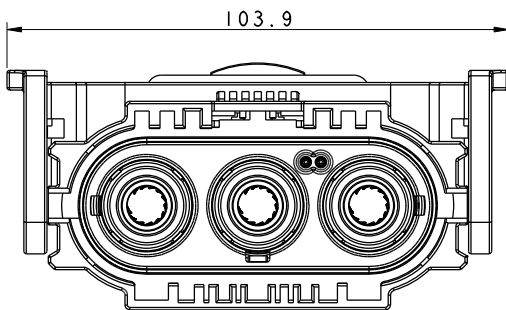


INSERT ORIENTATIONS

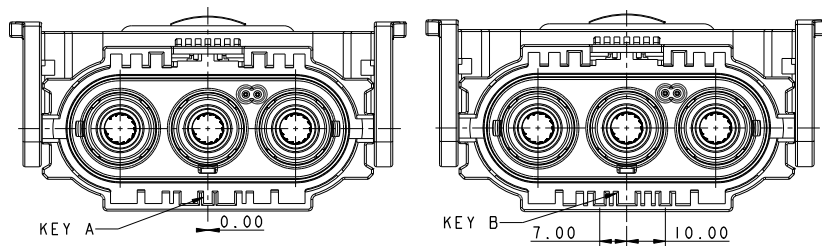


| | Coding A | Coding B |
|-----|----------------|----------------|
| P/N | HVSL800 02 3 A | HVSL800 02 3 B |

3 PIN STRAIGHT PLUG



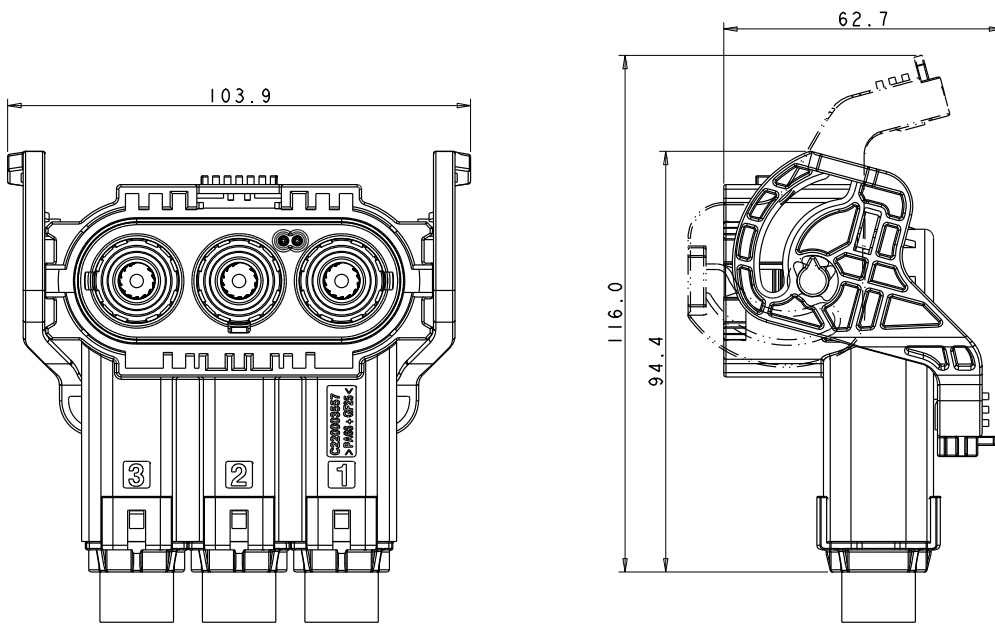
INSERT ORIENTATIONS



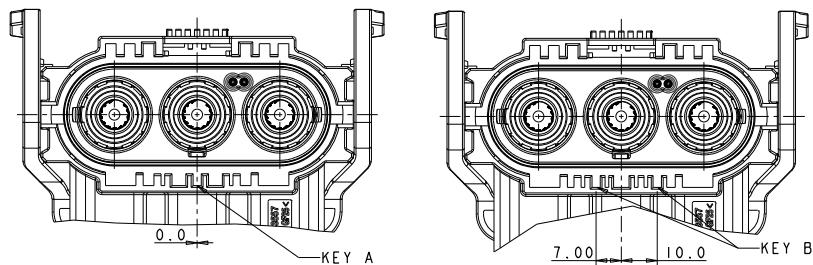
| | Coding A | Coding B |
|-----|----------------|----------------|
| P/N | HVSL800 06 3 A | HVSL800 06 3 B |

Excel|Mate S (HVSL 800)

3 PIN RIGHT ANGLE PLUG

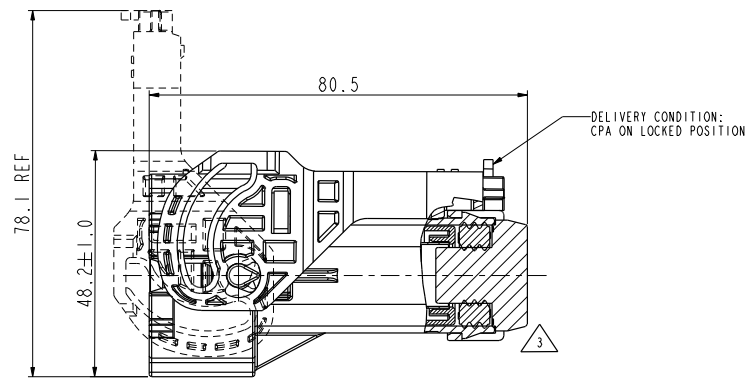
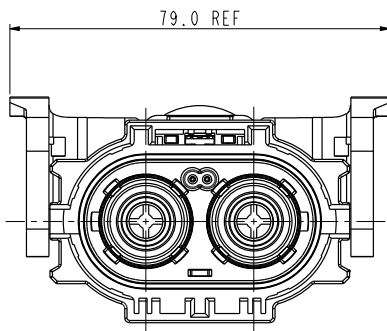


INSERT ORIENTATIONS



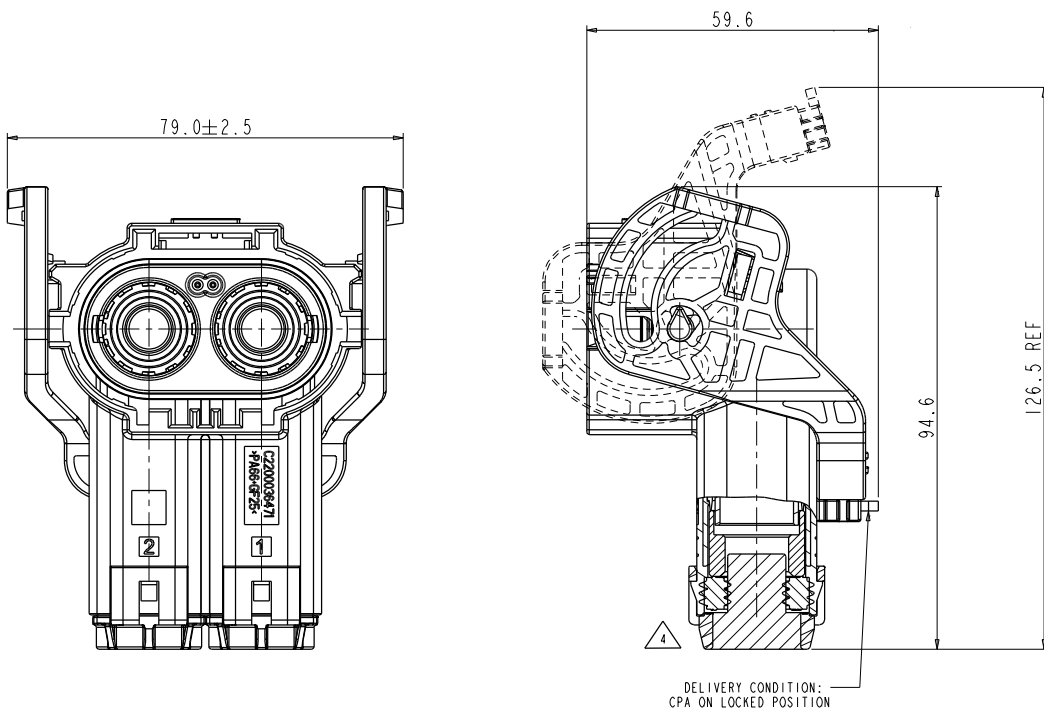
| | Coding A | Coding B |
|-----|----------------|----------------|
| P/N | HVSL800 08 3 A | HVSL800 08 3 B |

DUMMY STRAIGHT PLUG



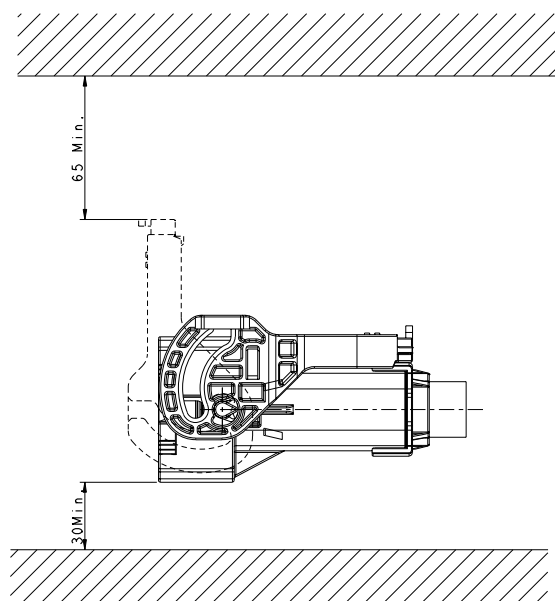
| | | | | | | |
|-------------------------------------|---|----|---|---|---|----|
| | HVSL800 | 06 | 2 | A | 0 | S1 |
| Product type: | 06: Straight plug | | | | | |
| Position: | 2: 2 position | | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: Coding C | | | | | |
| Interlock: |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

DUMMY RIGHT ANGLE PLUG



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

INSTALLATION CLEARANCE



EXTRACTION TOOL FOR RECEPTACLE HVIL

HVIL-contact Extraction tool: HVTOOL11R



HOW TO ORDER: PLUG

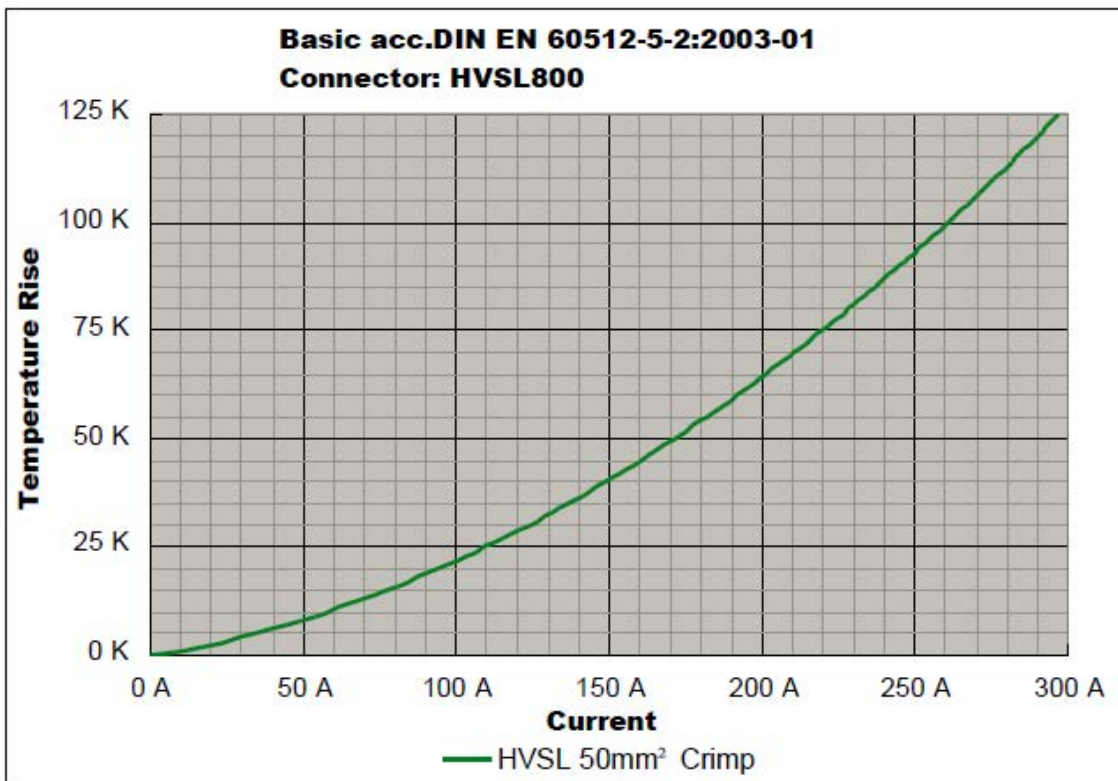
| | | | | | | |
|-------------------------------------|---|----|---|---|---|----|
| | HVSL800 | 06 | 2 | A | 0 | 50 |
| Product type: | 06: Straight plug 08: Right angle plug | | | | | |
| Position: | 2: 2 position 3: 3 position | | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: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

HOW TO ORDER: RECEPTACLE

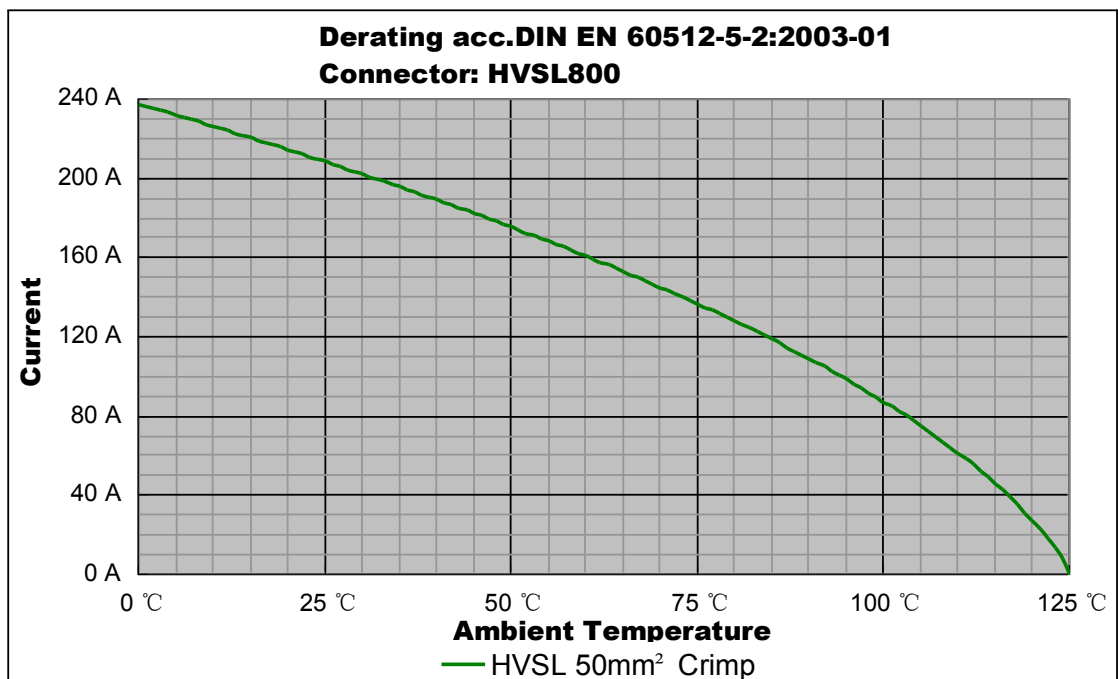
| | | | | | | |
|-------------------------------------|---|----|---|---|---|----|
| | HVSL800 | 02 | 2 | A | 0 | H6 |
| Product type: | 02: Box mounted receptacle | | | | | |
| Position: | 2: 2 position 3: 3 position | | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: Coding C (Only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

CHARTS (HVSL 800)

HVSL 800 | Temperature Rise



HVSL 800 | Derating Curve



Remark: tests carried out on the complete connector.

ExcelMate S (P 800)



EXCEL | MATE S

EXCEL | MATE S (P 800) is a 2 pin connector with a current carrying capacity from 120 to 200A and 25 to 50 mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

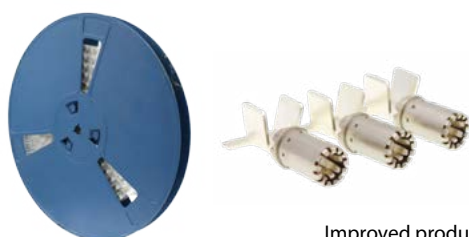
No tool required to unmate

Sealing, IP67 , IP6K9K

Touch-proof, IP2XB

Multiple coding positions

CPA available



Improved production efficiency. Automated tape and reel packaging.

MECHANICAL

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

ELECTRICAL

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

ENVIRONMENTAL

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

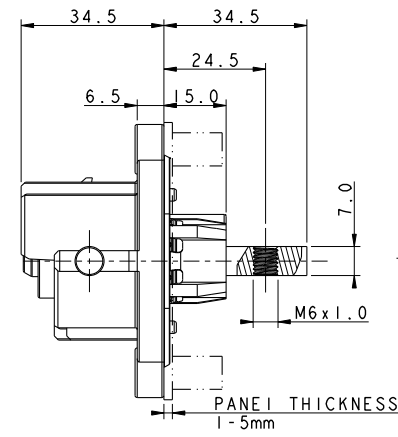
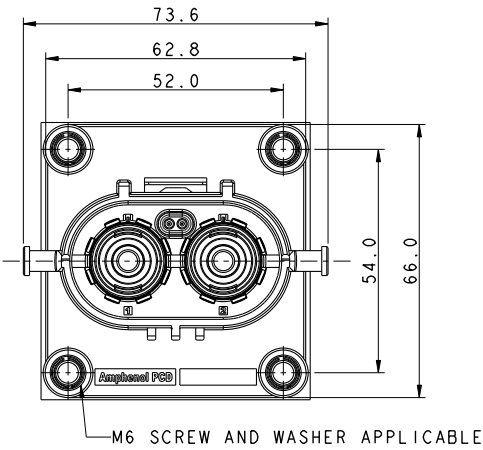
STANDARDS

| |
|----------|
| USCAR-2 |
| USCAR-37 |
| LV-215 |
| RoHS |

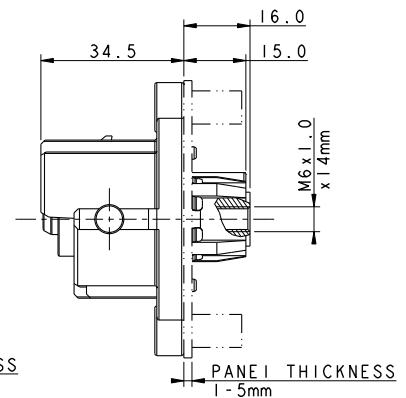
MATERIAL

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

2 PIN RECEPTACLE

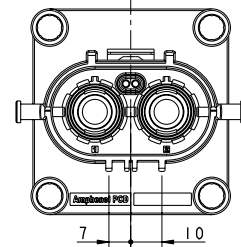
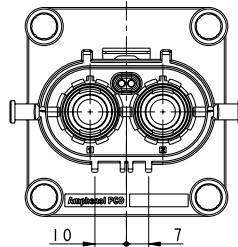
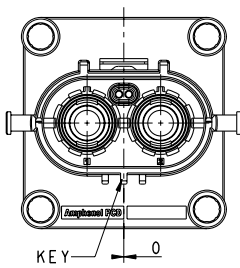


POWER CONTACT
HOLE TERMINATION



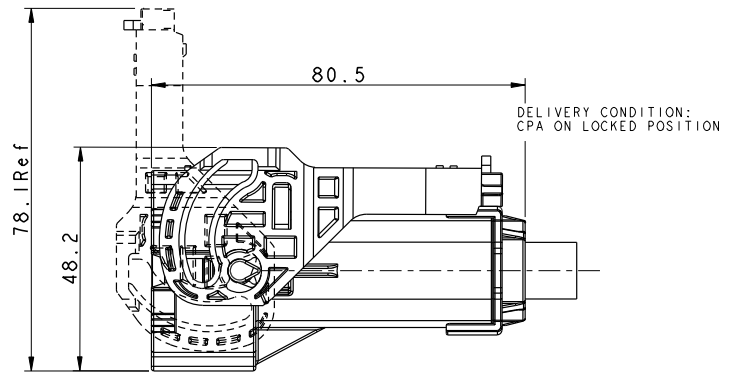
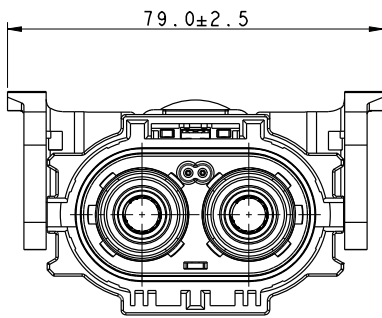
POWER CONTACT
SCREW TERMINATION-INTERNAL

INSERT ORIENTATIONS

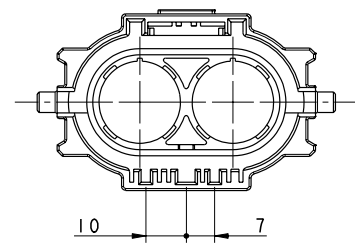
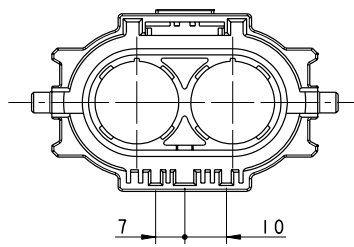
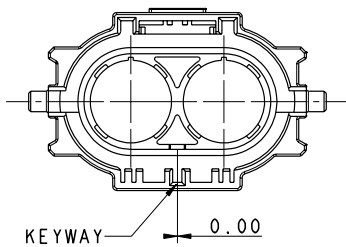


| | Coding A | Coding B | Coding C |
|-----|----------------|----------------|----------------|
| P/N | HVSL800 02 2 A | HVSL800 02 2 B | HVSL800 02 2 C |

2 PIN STRAIGHT PLUG



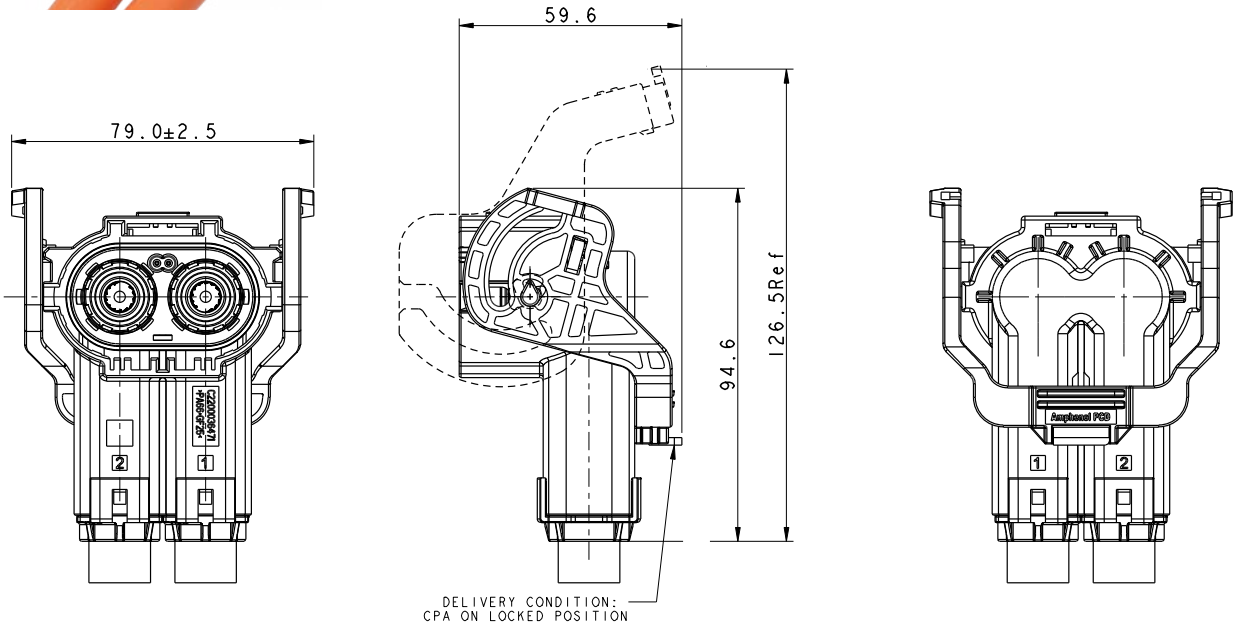
INSERT ORIENTATIONS



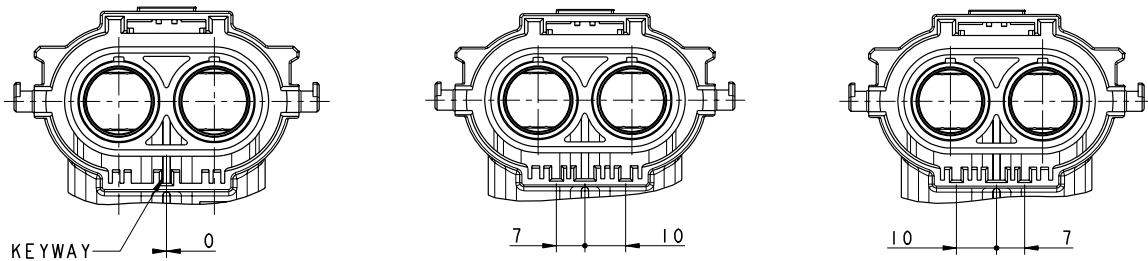
| | Coding A | Coding B | Coding C |
|-----|-----------------|-----------------|-----------------|
| P/N | HVSLP800 06 2 A | HVSLP800 06 2 B | HVSLP800 06 2 C |

Excel|Mate S (HVSL P 800)

2 PIN RIGHT ANGLE PLUG



INSERT ORIENTATIONS

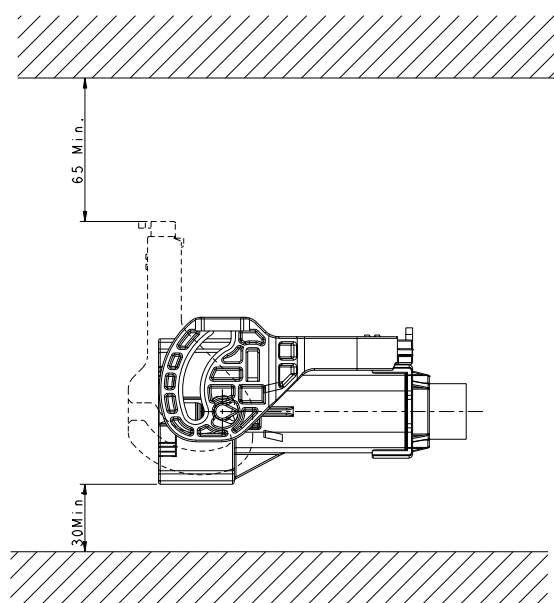


Coding A
P/N HVSLP800 08 2 A

Coding B
P/N HVSLP800 08 2 B

Coding C
P/N HVSLP800 08 2 C

INSTALLATION CLEARANCE



EXTRACTION TOOL FOR RECEPTACLE HVIL



HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

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

Excel|Mate PT (HVPC 800)

HVPC 800



KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

Multiple coding positions

360° shielded from wire to device

Economical

MECHANICAL

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

ELECTRICAL

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

ENVIRONMENTAL

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

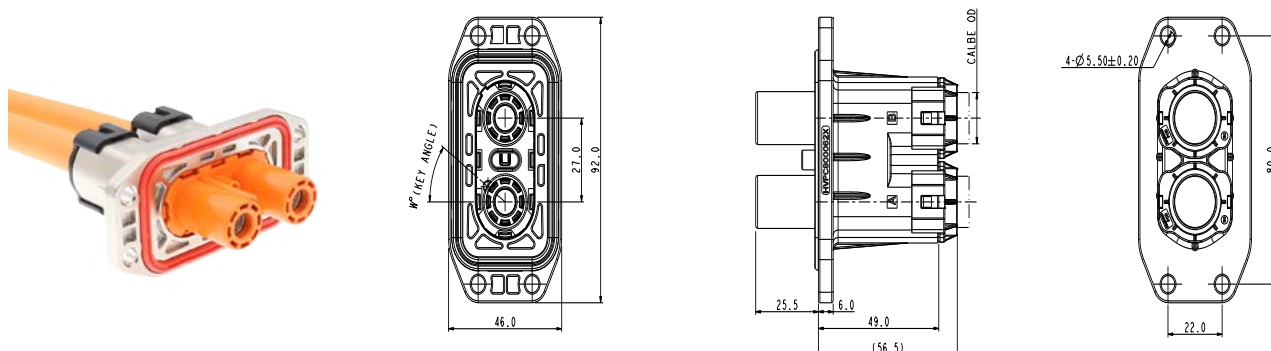
STANDARDS

| | |
|----------|--|
| USCAR-2 | |
| USCAR-37 | |
| LV-215 | |
| RoHS | |

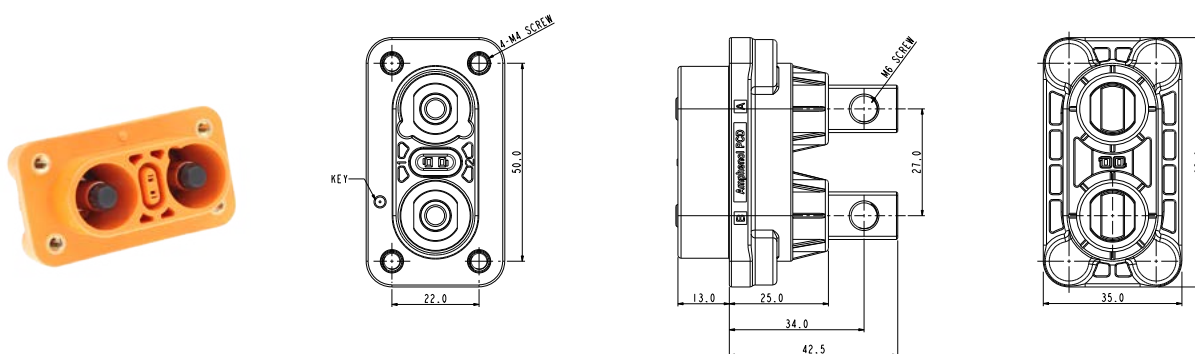
MATERIAL

| | |
|---------|-------|
| Housing | Metal |
|---------|-------|

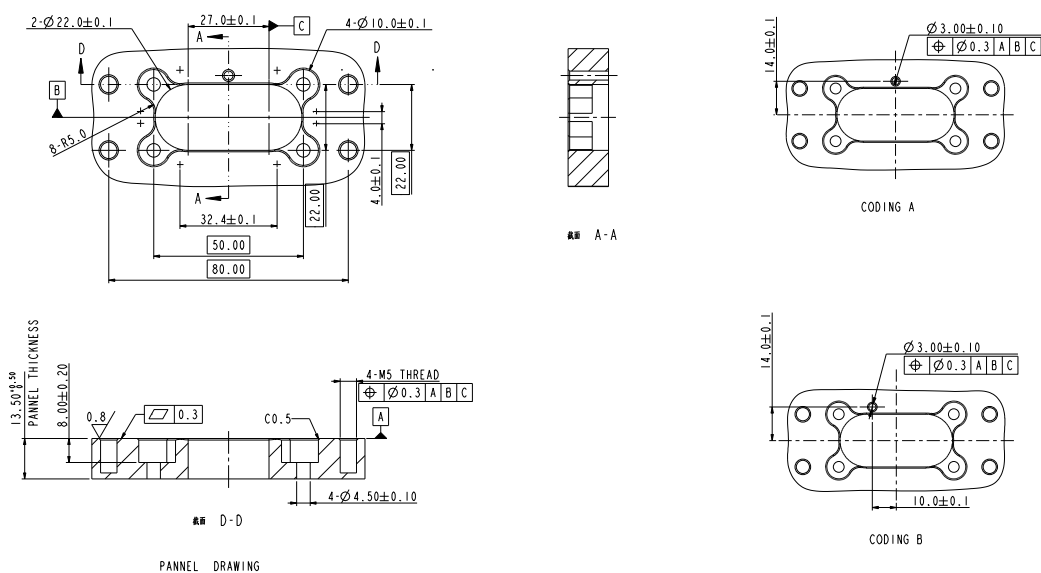
HVPC 800 PLUG



HVPC 800 RECEPTACLE



PANEL MOUNTING DIMENSION



HOW TO ORDER (HVPC 800)

HOW TO ORDER: PLUG

| | | | | | | |
|--|----------|----|---|---|---|----|
| | HVPC 800 | 06 | 2 | A | 1 | 35 |
| Product type: | | | | | | |
| 06: Plug | | | | | | |
| Position: | | | | | | |
| 2: 2 positions | | | | | | |
| Coding: | | | | | | |
| A: Coding A | | | | | | |
| B: Coding B | | | | | | |
| HVIL: | | | | | | |
| 0: Without HVIL | | | | | | |
| 1: With HVIL | | | | | | |
| Wire type: | | | | | | |
| 35: 35mm ² shielded wire | | | | | | |
| 50: 50mm ² shielded wire | | | | | | |

HOW TO ORDER: RECEPTACLE

| | | | | | | |
|---------------------------|----------|----|---|---|---|----|
| | HVPC 800 | 02 | 2 | A | 1 | H6 |
| Product type: | | | | | | |
| 02: Receptacle | | | | | | |
| Position: | | | | | | |
| 2: 2 positions | | | | | | |
| Coding: | | | | | | |
| A: Coding A | | | | | | |
| B: Coding B | | | | | | |
| HVIL: | | | | | | |
| 0: Without HVIL | | | | | | |
| 1: With HVIL | | | | | | |
| Wire type: | | | | | | |
| H6: M6 OT terminal | | | | | | |

HVPC 18



KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

Multiple coding positions

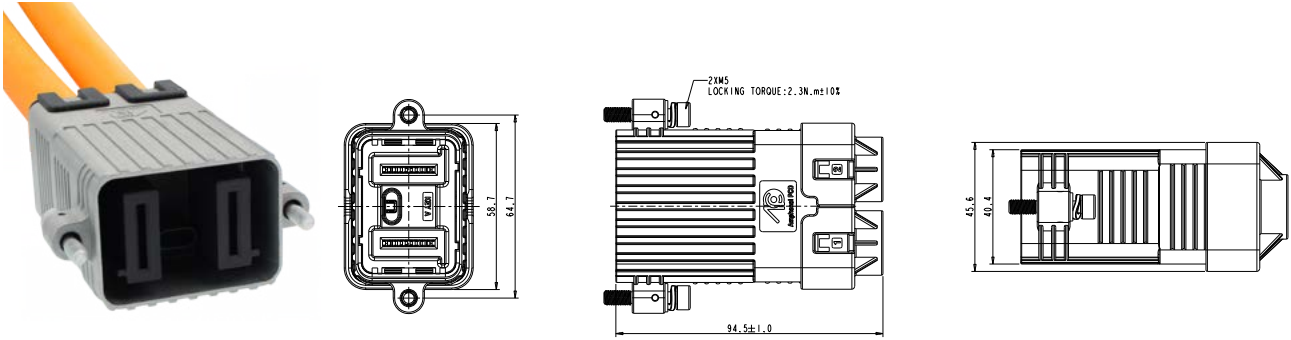
360° shielded from wire to device

Economical

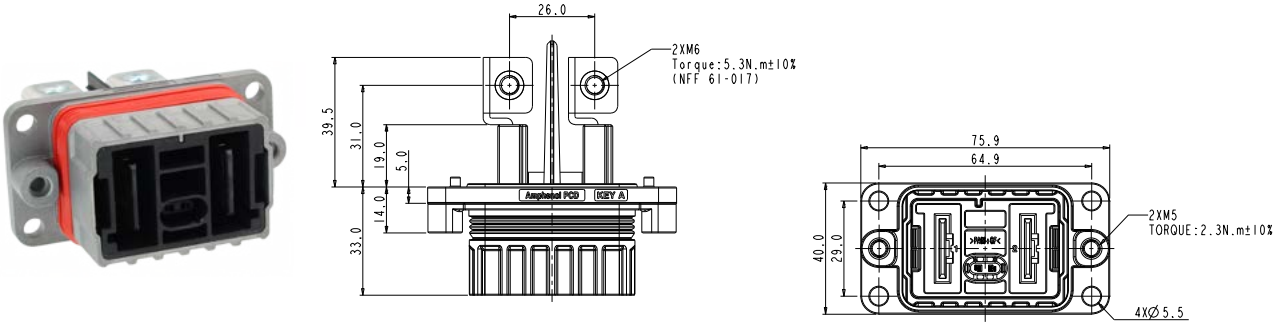
| MECHANICAL | |
|--------------------------------|--|
| Durability | ≥ 50 mating cycles |
| Wire range | 35 to 70 mm ² shielded wire |
| Insertion and extraction force | < 100N |
| Connection type | Crimp |
| HVIL | Integrated |
| ELECTRICAL | |
| Rated voltage | 1000V DC |
| Rated current | Max 250A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

Excel|Mate PT (HVPC 18)

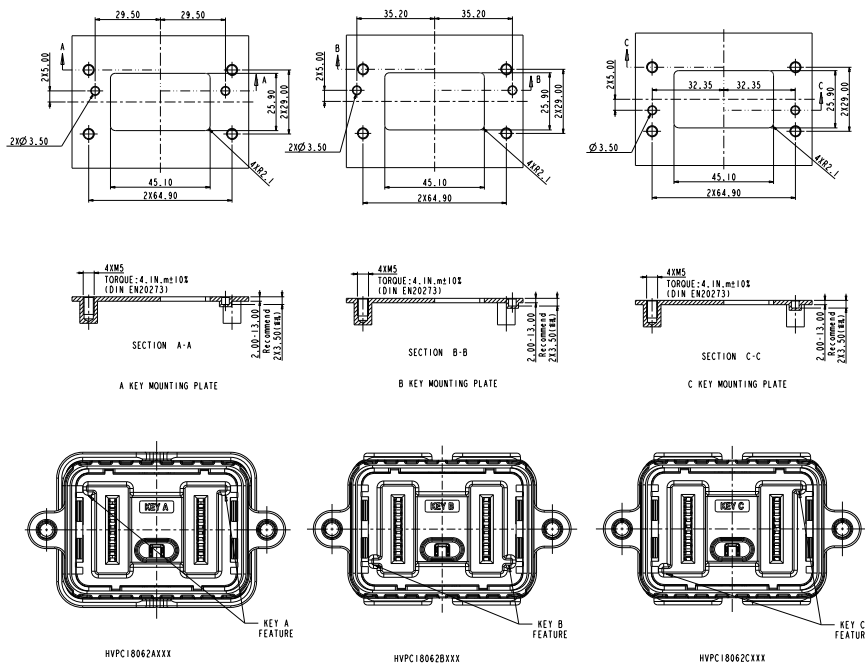
HVPC 18 PLUG



HVPC 18 RECEPTACLE



PANEL MOUNTING DIMENSIONS



HOW TO ORDER: PLUG

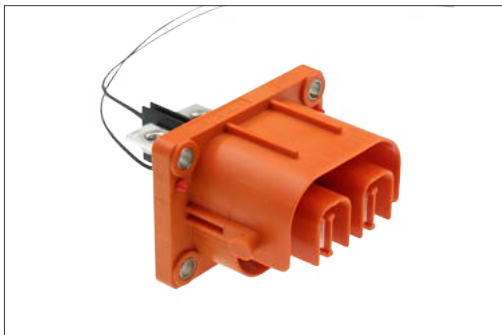
| | | | | | | |
|----------------------|---|----|---|---|---|----|
| | HVPC 18 | 06 | 2 | A | 1 | 35 |
| Product type: | 06: Plug | | | | | |
| Position: | 2: 2 positions | | | | | |
| Coding: | A: Coding A B: Coding B C: Coding C | | | | | |
| HVIL: | 0: Without HVIL 1: With HVIL | | | | | |
| Wire type: | 35: 35mm ² shielded wire 50: 50mm ² shielded wire 70: 70mm ² shielded wire | | | | | |

HOW TO ORDER: RECEPTACLE

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

Excel|Mate S (HVSLF 10)

HVSLF 10



KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

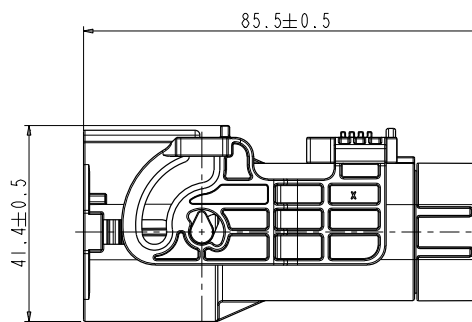
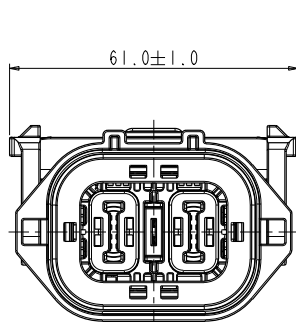
Multiple coding positions

360° shielded from wire to device

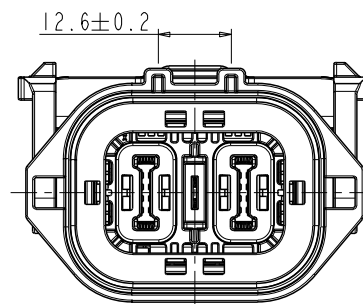
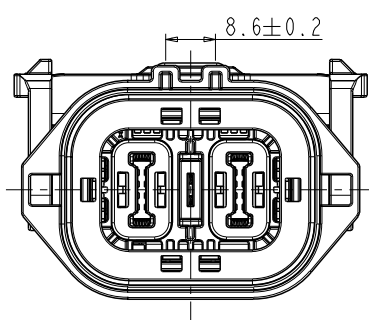
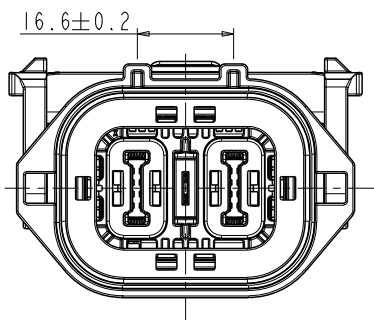
Economical

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

HVSLF 10 STRAIGHT PLUG



INSERT ORIENTATION

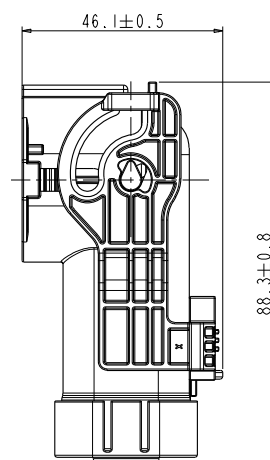
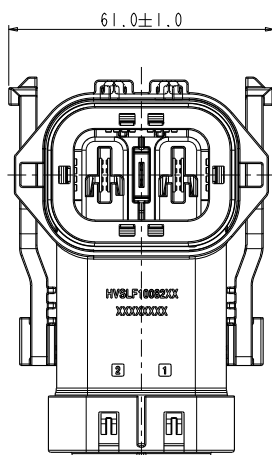


Coding A

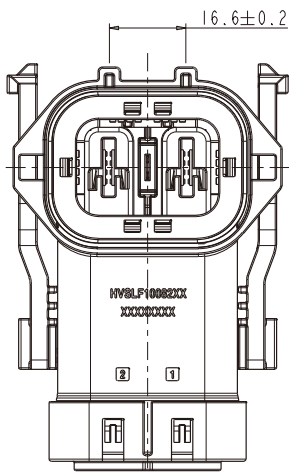
Coding B

Coding C

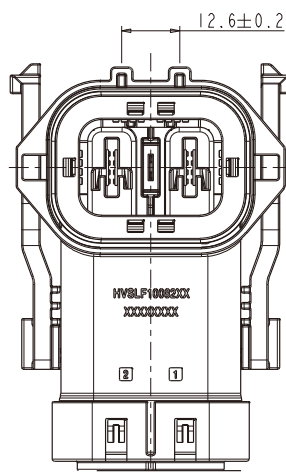
HVSLF 10 RIGHT-ANGLE PLUG



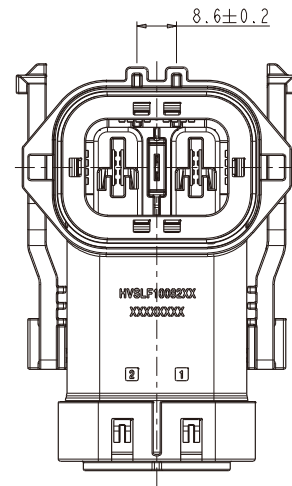
INSERT ORIENTATION



Coding A
HVSLF10 062 A

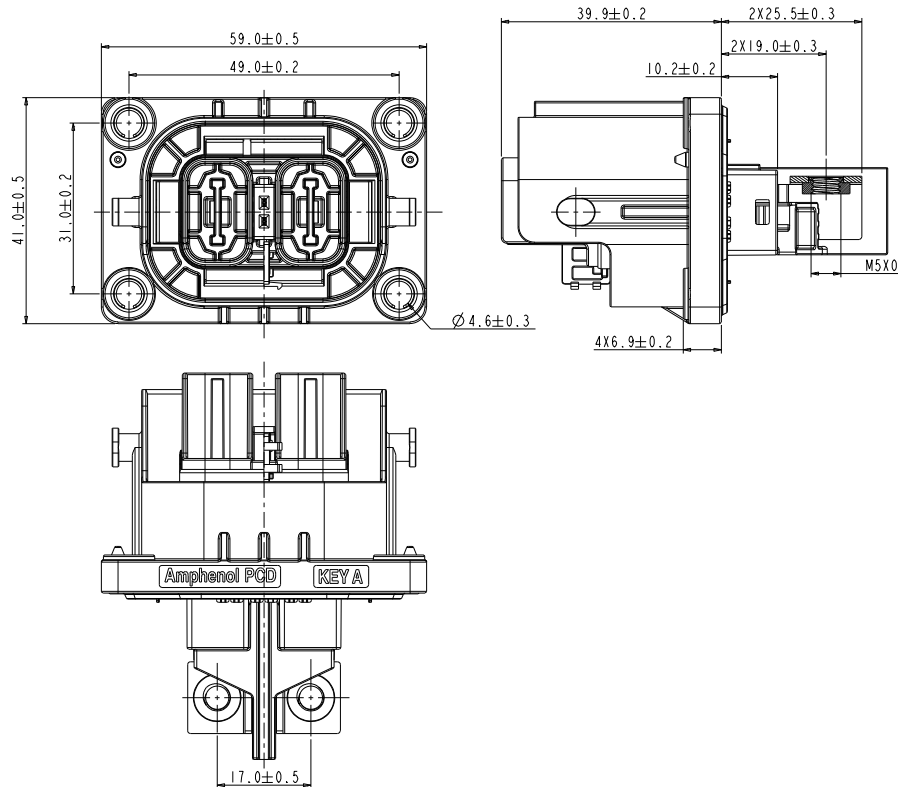
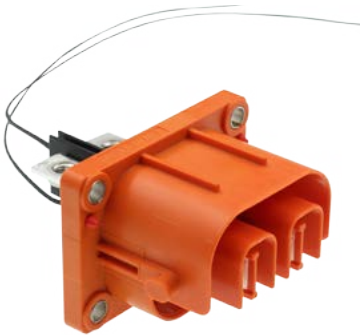


Coding B
HVSLF10 062 B

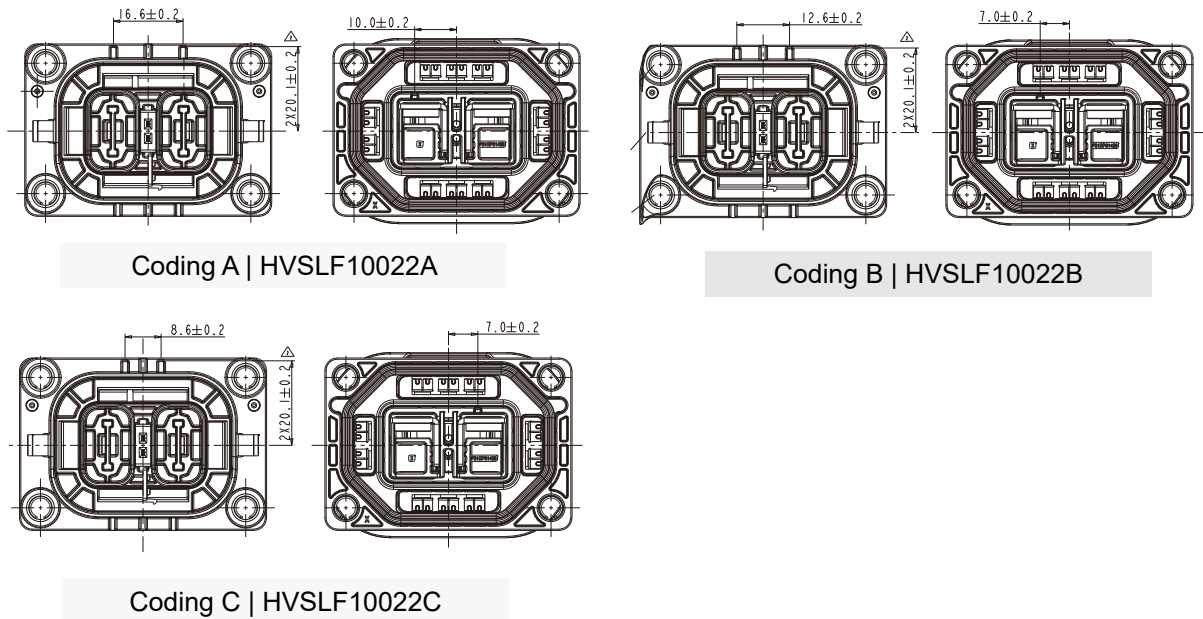


Coding C
HVSLF10 062 C

HVSLF 18 RECEPTACLE



INSERT ORIENTATION



HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

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

Excel|Mate S (HVSLF 18)

HVSLF 18

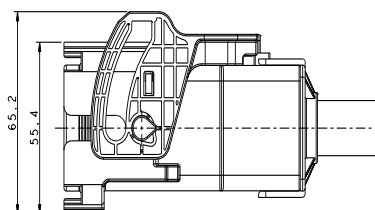
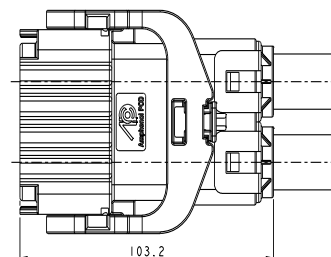
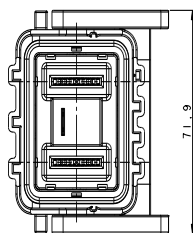


KEY FEATURES

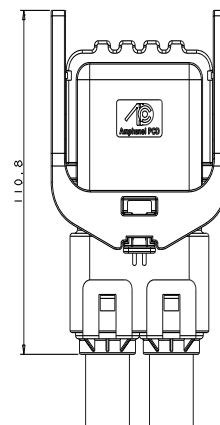
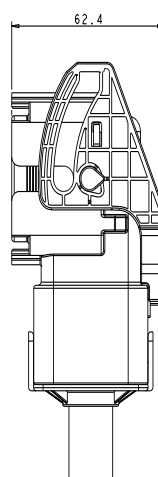
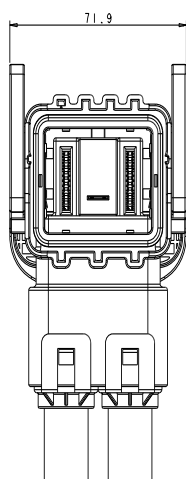
- Easy to install, reliable connection
- Sealing, IP67, IP6K9K (mated)
- Multiple coding positions
- 360° shielded from wire to device
- Economical

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

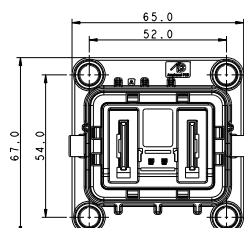
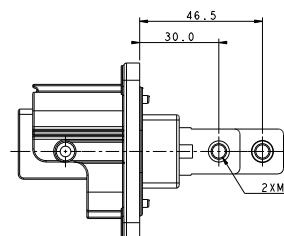
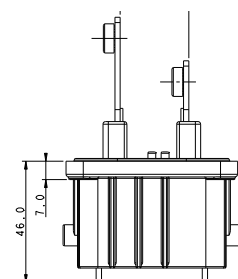
HVSLF 18 STRAIGHT PLUG



HVSLF 18 RIGHT-ANGLE PLUG



HVSLF 18 RECEPTACLE



HOW TO ORDER (HVSLF 18)

HOW TO ORDER: PLUGS

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

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

HOW TO ORDER: RECEPTACLE

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

HVSLF 300



KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

Multiple coding positions

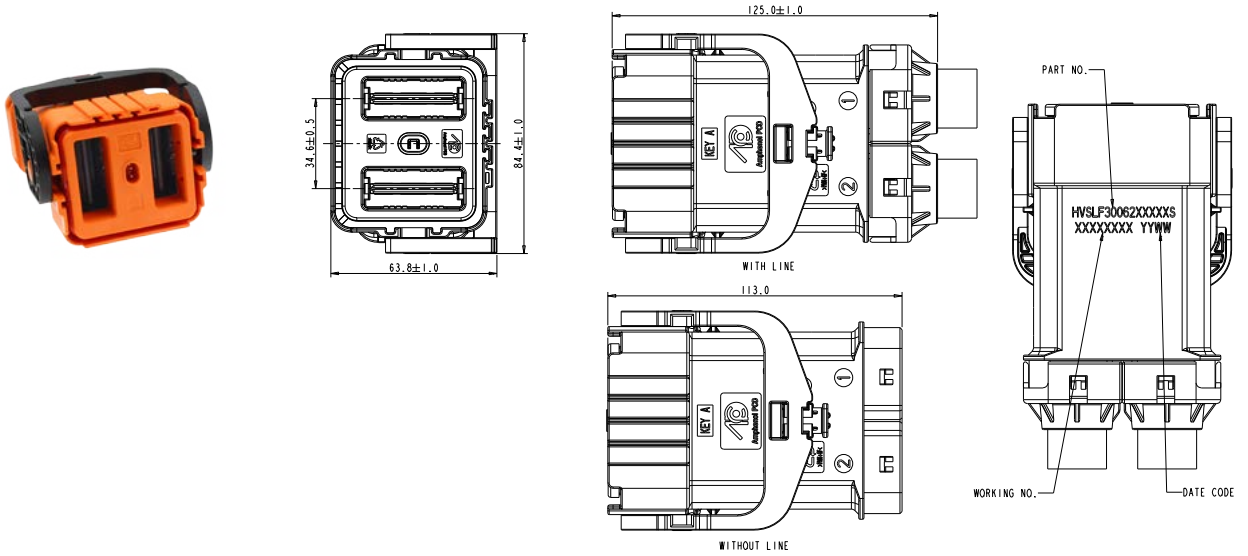
360° shielded from wire to device

Economical

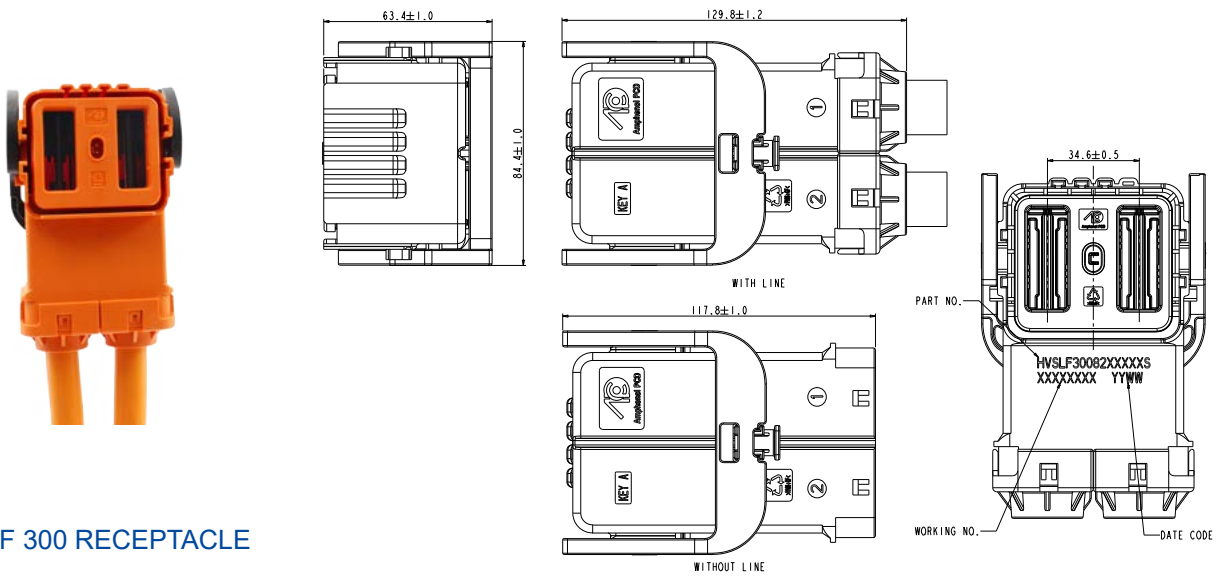
| MECHANICAL | |
|--------------------------------|--|
| Durability | 50 mating cycles |
| Wire range | 95 to 120 mm ² shielded wire |
| Insertion and extraction force | < 100N |
| Connection type | Crimp |
| HVIL | Integrated |
| ELECTRICAL | |
| Rated voltage | 1000V DC |
| Rated current | Max 430A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

Excel|Mate S (HVSLF 300)

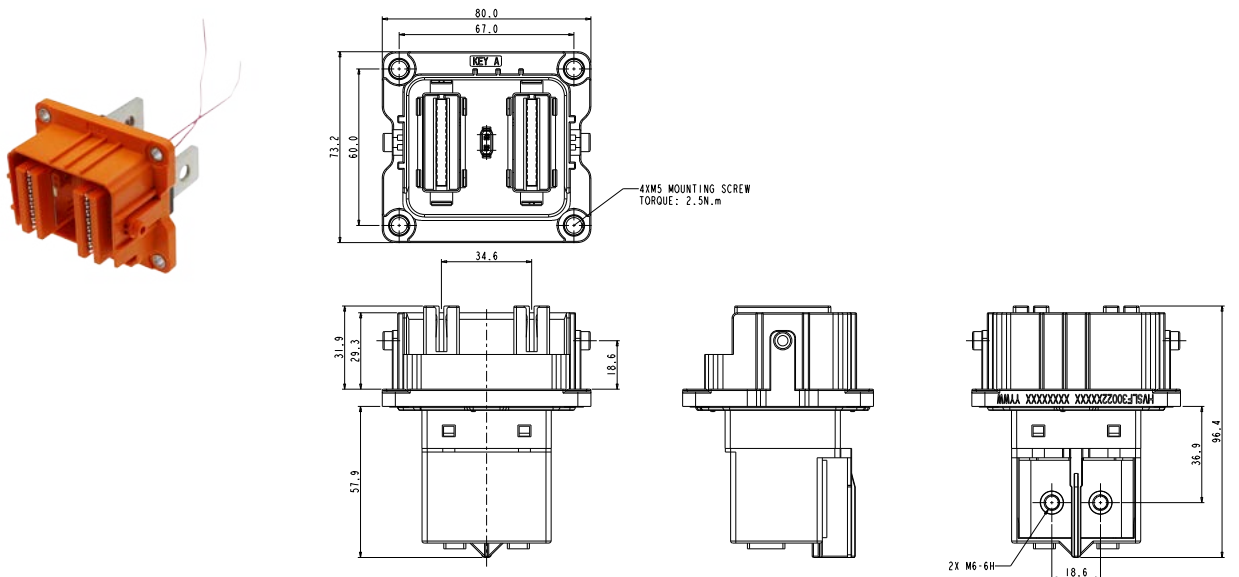
HVSLF 300 STRAIGHT PLUG



HVSLF 300 RIGHT-ANGLE PLUG



HVSLF 300 RECEPTACLE



HOW TO ORDER: PLUGS

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

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

HOW TO ORDER: RECEPTACLE

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

Excel|Mate Eco (HVSL 600)

Excel|Mate Eco (HVSL600)



HVSL600

HVSL600 is a single pin connector with a current carrying capacity of 120A and 25mm² crimping cable. It can be utilized with multi-core or individually shielded wire. An integrated internal HVIL with multiple routing options allows package size optimization and flexibility.

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

Multiple coding positions

CPA available

MECHANICAL

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

ELECTRICAL

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

ENVIRONMENTAL

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

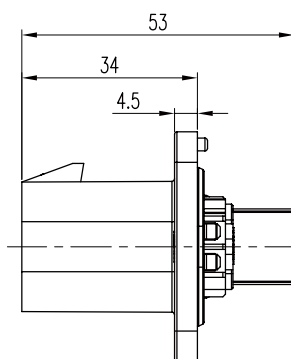
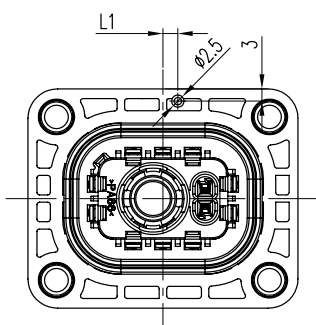
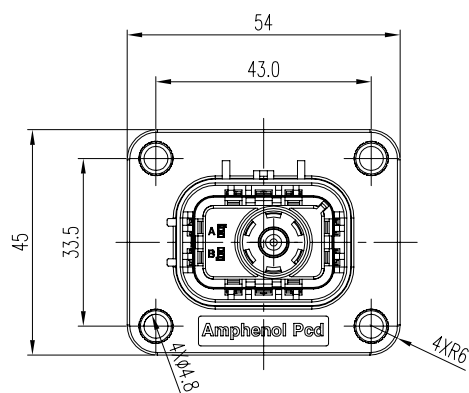
STANDARDS

| |
|----------|
| USCAR-2 |
| USCAR-37 |
| LV-215 |
| RoHS |

MATERIAL

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

RECEPTACLE



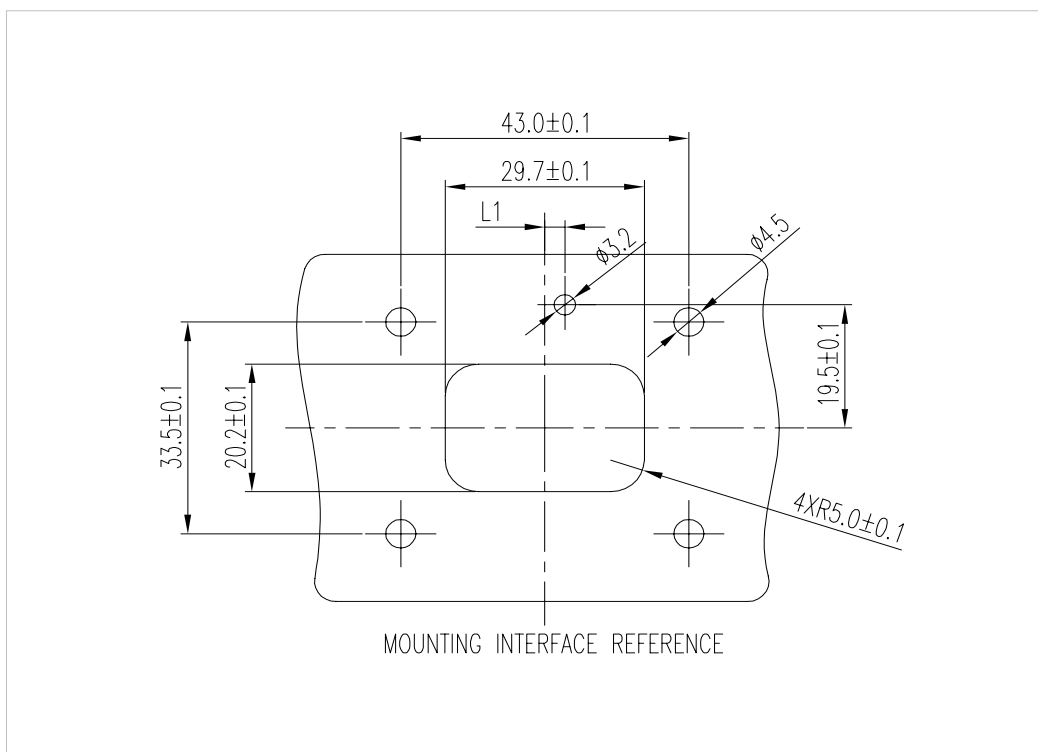
CONTACTS

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

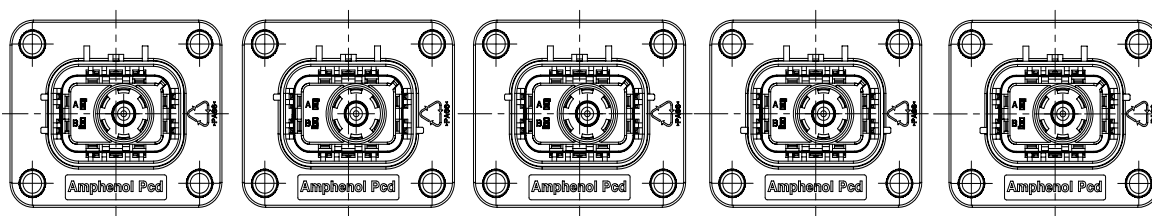
| Pin contact: crimping | Pin contact: end with bus-bar | Pin signal contact (HVIL) |
|-----------------------------------|-------------------------------|------------------------------------|
| P/N: C420003621 | P/N: C420003625 | P/N: C310003613S |
| | | |
| 25mm ² unshielded wire | OT terminal | 0.5mm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

PANEL MOUNTING DIMENSIONS

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

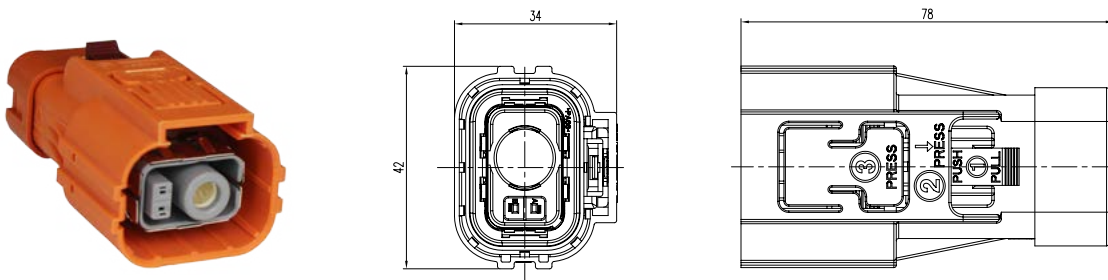


INSERT ORIENTATIONS



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

PLUG

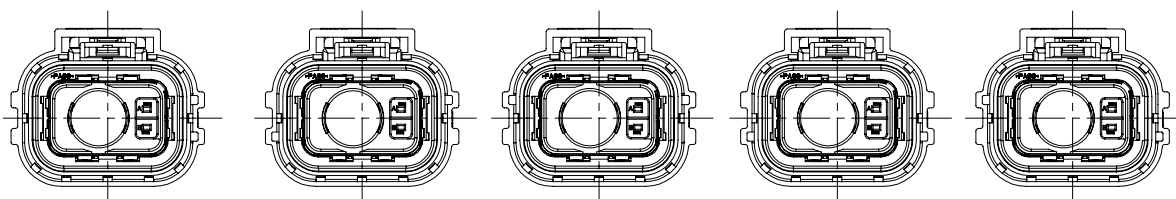


CONTACTS

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

| Socket contact | Socket signal contact (HVIL) |
|---------------------------------|------------------------------------|
| P/N: C420003620 | P/N: C310003614S |
| | |
| 25mm ² shielded wire | 0.5mm ² unshielded wire |

INSERT ORIENTATIONS



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

HOW TO ORDER (HVSL 600)

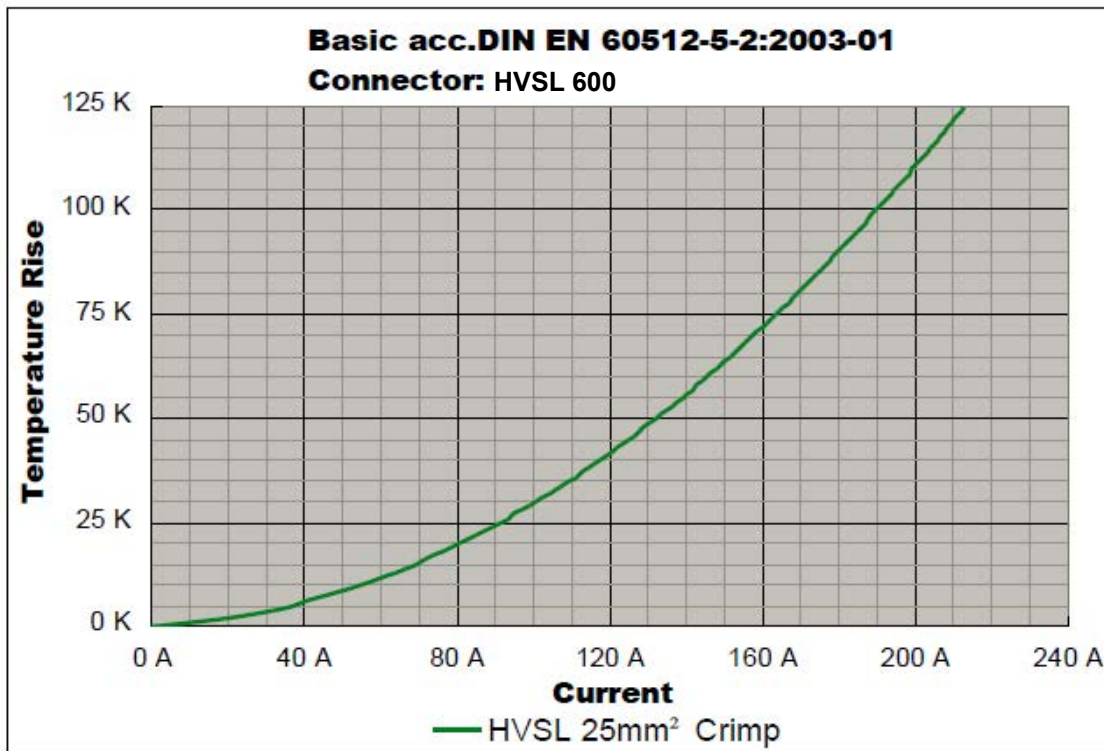
HOW TO ORDER: PLUG

| | HVSL600 | 06 | 1 | A | 0 | 25 | 10 |
|-------------------------------------|--|----|---|---|---|----|----|
| Product type: | 06: Straight plug | | | | | | |
| Position: | 1: 1 position | | | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: Coding C D: Coding D E: Coding E | | | | | | |
| HVIL: | 0: Without interlock 1: With interlock | | | | | | |
| Cable size: | 25: 25mm² | | | | | | |
| Cable OD: | 10: 10 ± 0.5mm 11: 11 ± 0.5mm 12: 12 ± 0.5mm 13: 13 +0/-0.5mm | | | | | | |

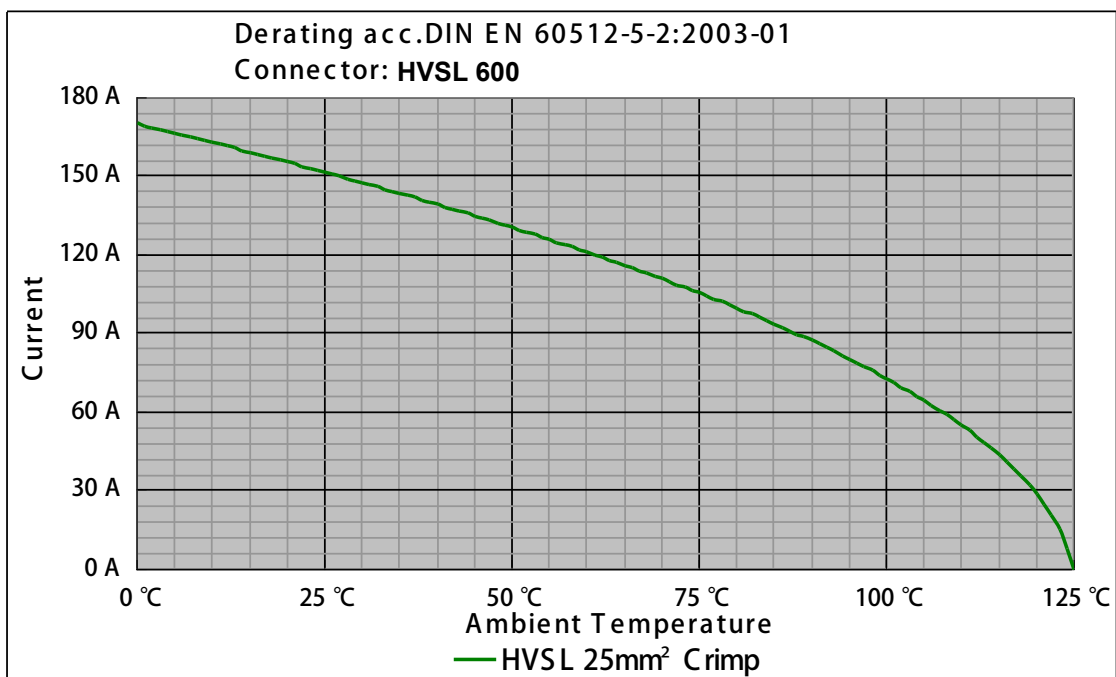
HOW TO ORDER: RECEPTACLE

| | HVSL600 | 02 | 1 | A | 0 | 25 |
|-------------------------------------|--|----|---|---|---|----|
| Product type: | 02: Box mounted receptacle | | | | | |
| Position: | 1: 1 position | | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: Coding C D: Coding D E: Coding E | | | | | |
| HVIL: | 0: Without interlock 1: With interlock | | | | | |
| Cable size: | 25: 25mm² H6: OT terminal | | | | | |

HVSL 600 | Temperature Rise



HVSL 600 | Derating Curve



Remark: tests carried out on the complete connector.

Excel|Mate Eco (HVSL 630)

Excel|Mate Eco (HVSL630)



HVSL630

HVSL630 is a 2 position connector with a current carrying capacity from 23 to 40A and 4 to 6mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

Multiple coding positions

CPA available

MECHANICAL

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

ELECTRICAL

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

ENVIRONMENTAL

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

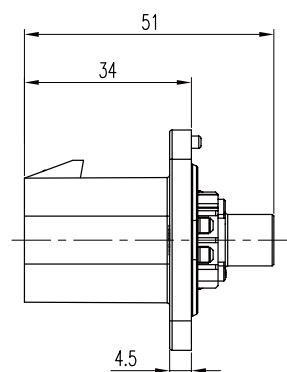
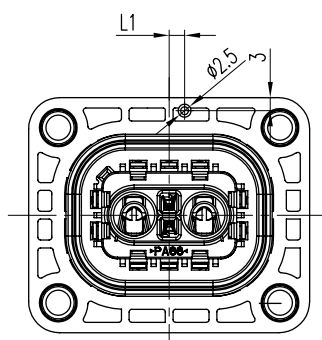
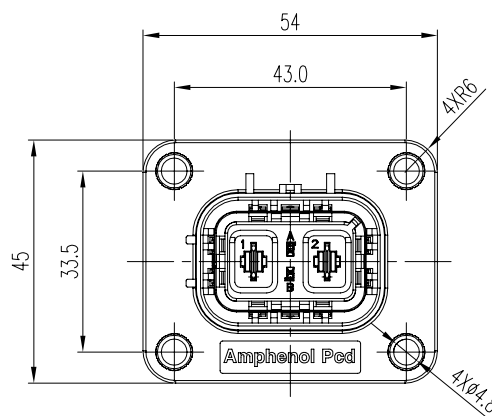
STANDARDS

| | |
|----------|--|
| USCAR-2 | |
| USCAR-37 | |
| LV-215 | |
| RoHS | |

MATERIAL

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

RECEPTACLE



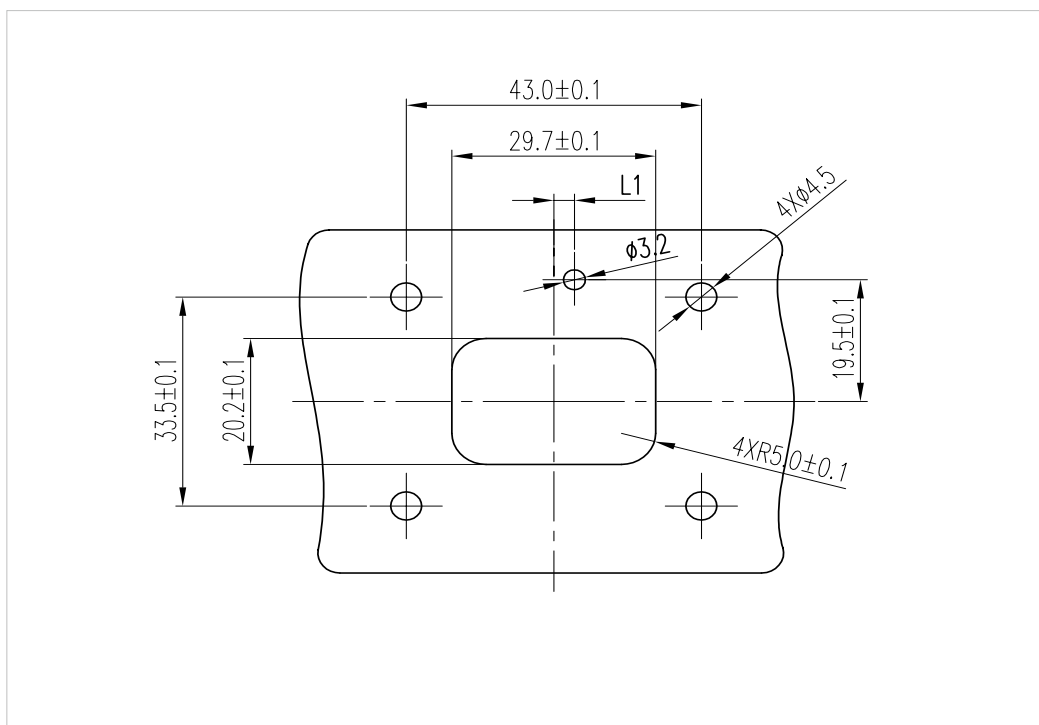
CONTACTS

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

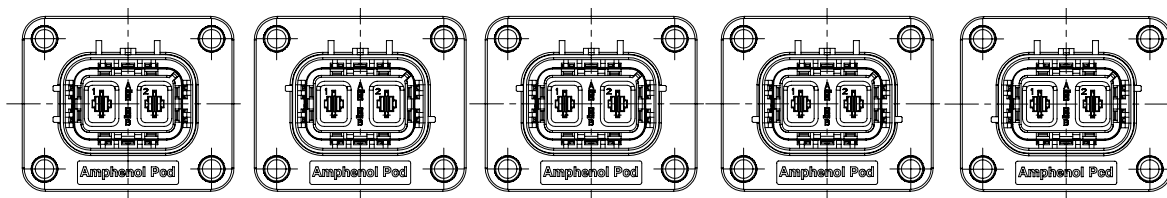
| Pin contact: crimping | HVIL CONTACTS |
|---------------------------------------|------------------------------------|
| P/N: C310003622S | P/N: C310003613S |
| | |
| 4 to 6mm ² unshielded wire | 0.5mm ² unshielded wire |

PANEL MOUNTING DIMENSION

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

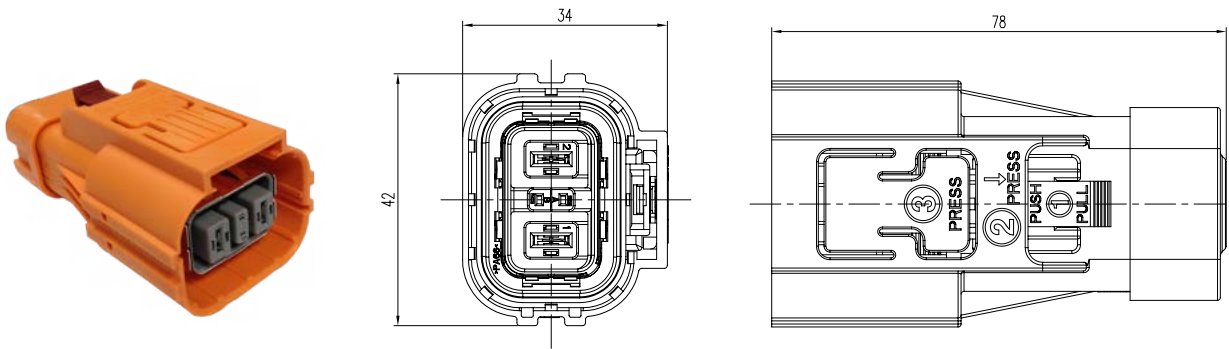


INSERT ORIENTATIONS



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

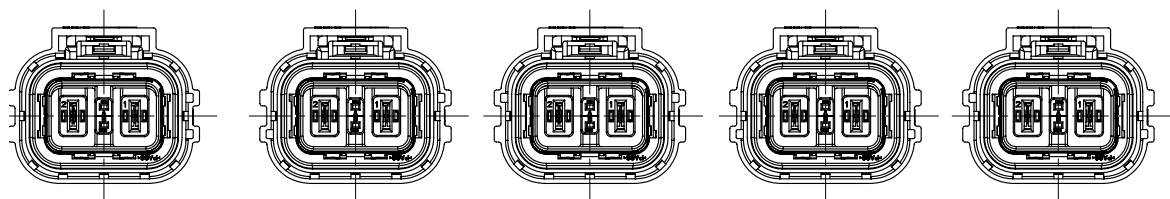
PLUG



CONTACTS

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

INSERT ORIENTATIONS



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

HOW TO ORDER (HVSL 630)

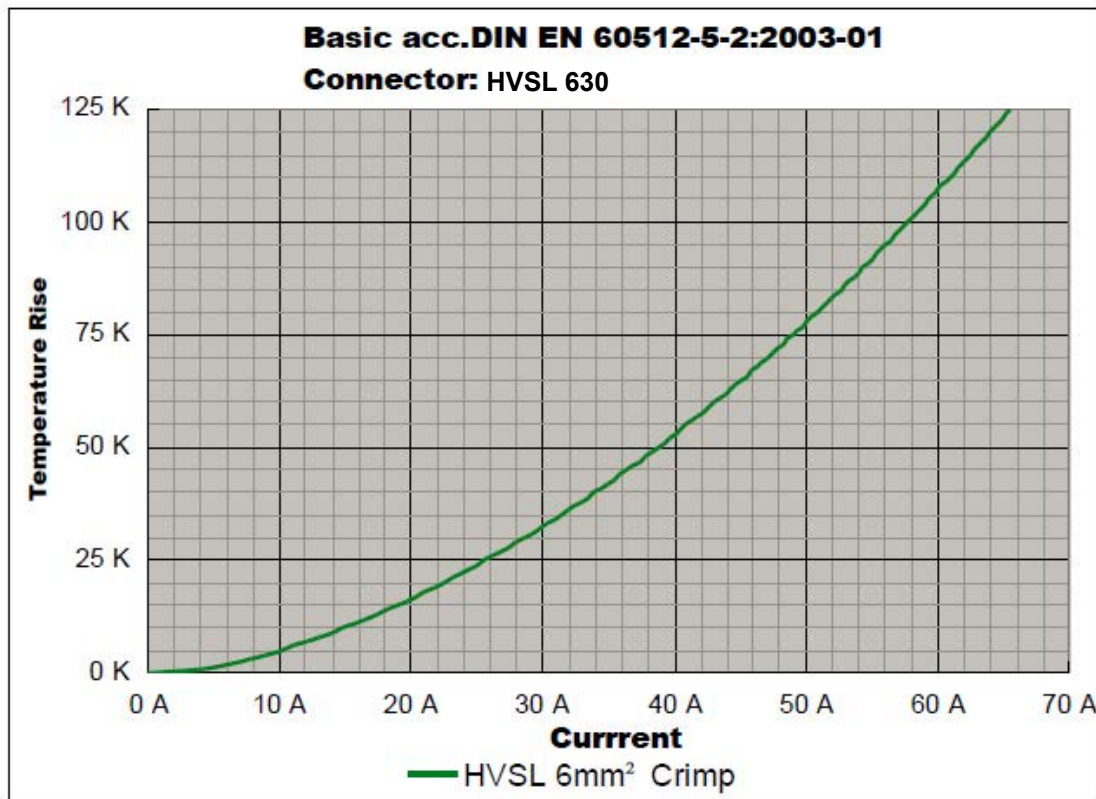
HOW TO ORDER: PLUG

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

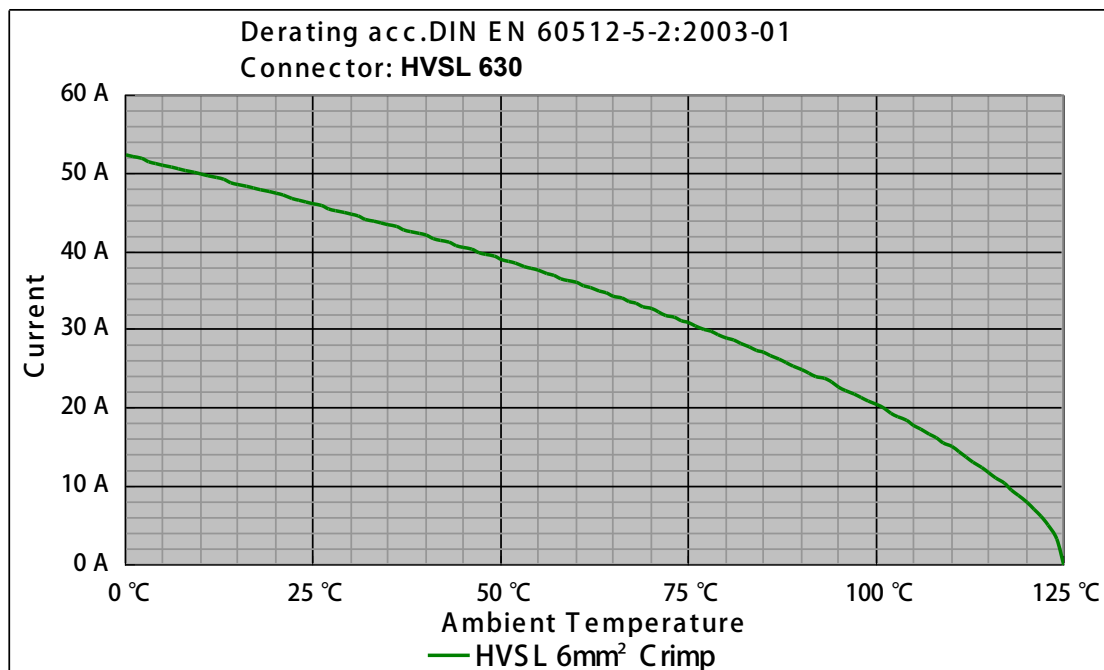
HOW TO ORDER: RECEPTACLE

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

HVSL 630 | Temperature Rise



HVSL 630 | Derating Curve



Remark: tests carried out on the complete connector.

EXCEL | MATE Eco (HVSL 633)

EXCEL | MATE (HVSL633 3 pin connector)



HVSL633

HVSL633 is a 3 position connector with a current carrying capacity from 23 to 40A and 2.5 to 6mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

Multiple coding positions

CPA available

MECHANICAL

| | |
|--------------------------------|---|
| Durability | ≥ 50 mating cycles |
| Wire range | 2.5 to 6 mm ² shielded wire (2.5mm ² only for plug) 2.5mm ² multicore wire |
| Insertion and extraction force | < 75N |
| Connection type | Crimping |
| Latching style | Two stage, finger actuated |
| HVIL | Integrated |
| CPA | Available |

ELECTRICAL

| | |
|------------------------------|------------------------------------|
| Rated voltage | 1000V DC |
| Rated current | 40A Max @ ambient temperature 70°C |
| Insulator resistance | > 200MΩ |
| Dielectric withstand voltage | 3000V AC |
| Shielding | 360° from wire to device |

ENVIRONMENTAL

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

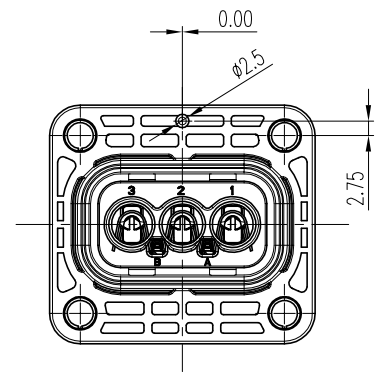
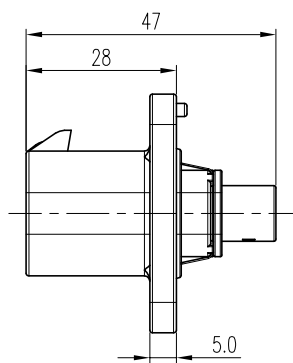
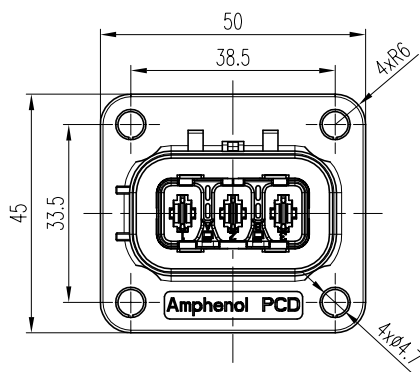
STANDARDS

| |
|----------|
| USCAR-2 |
| USCAR-37 |
| LV-215 |
| RoHS |

MATERIAL

| | |
|-----------|---------------------|
| Terminals | Copper/copper alloy |
| Housing | PA66 + GF |

RECEPTACLE HVSL633



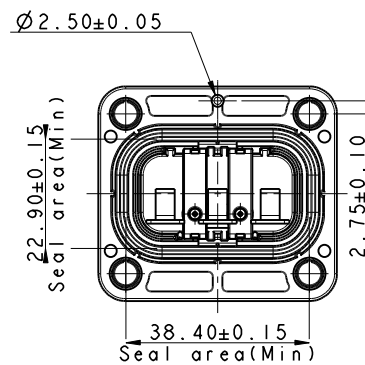
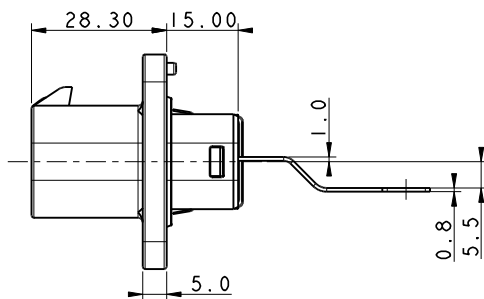
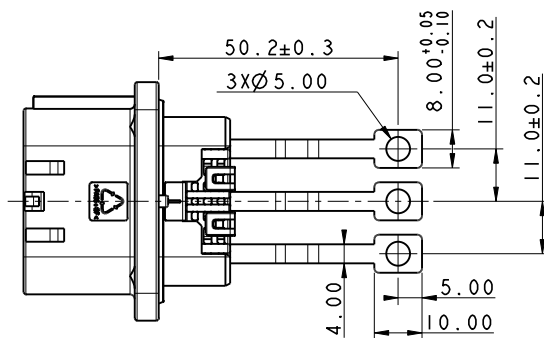
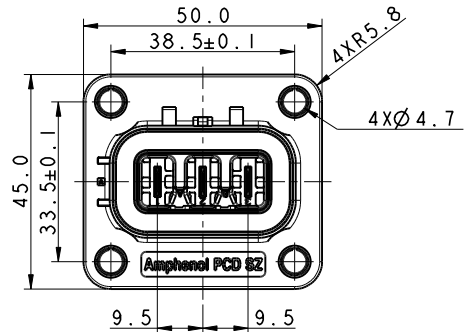
CONTACTS

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

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

Excel|Mate Eco (HVSLW 633)

RECEPTACLE HVSLW633

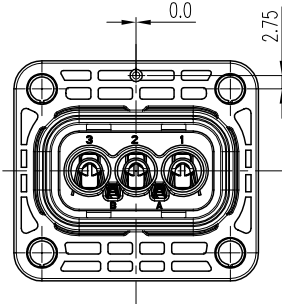
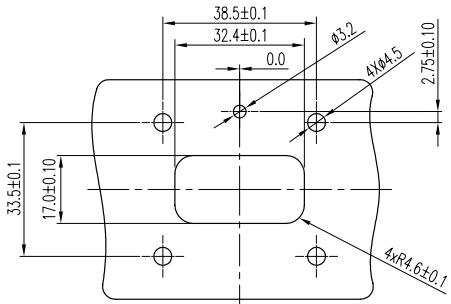
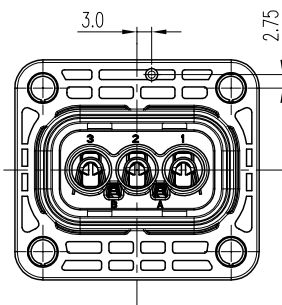
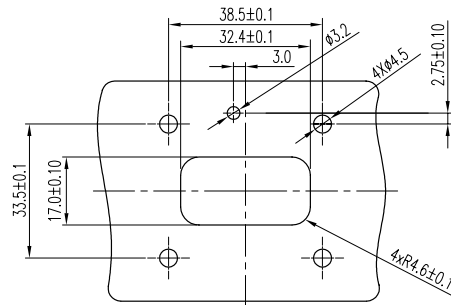
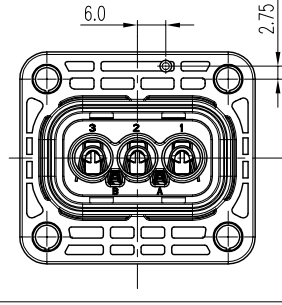
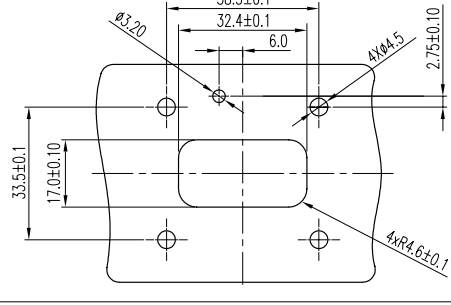
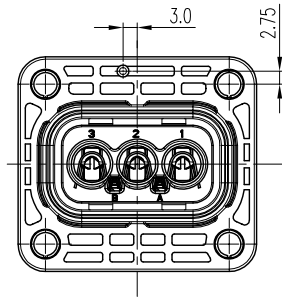
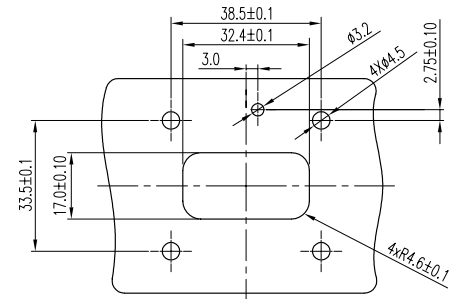
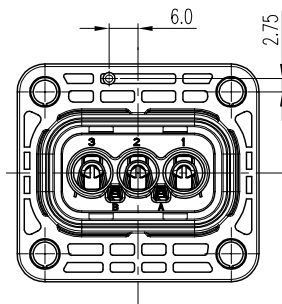
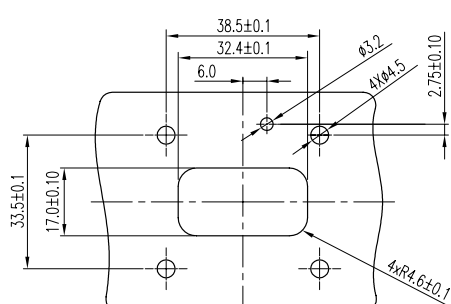


CONTACTS

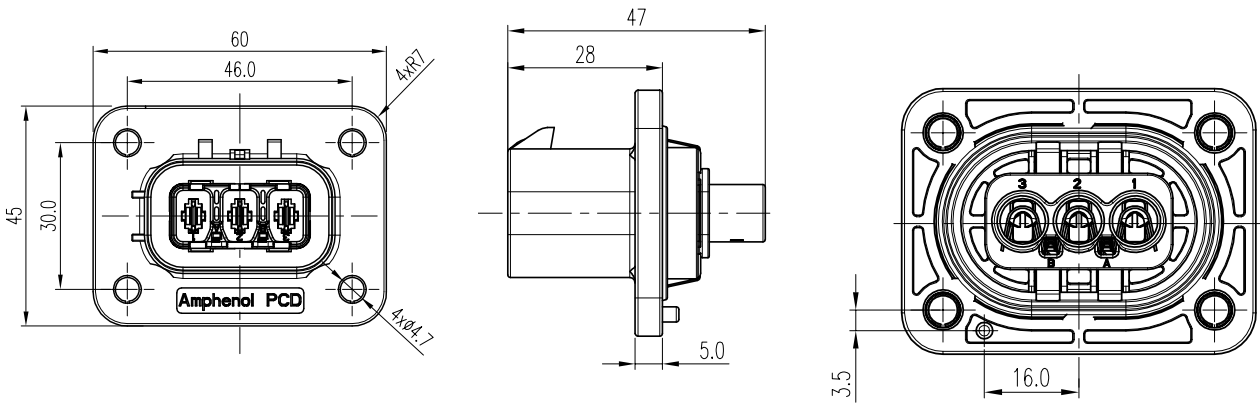
All connectors do not include contacts. Please order them separately (ref: P/N below)

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

PANEL MOUNTING DIMENSION

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

RECEPTACLE HVSLC633



CONTACTS

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

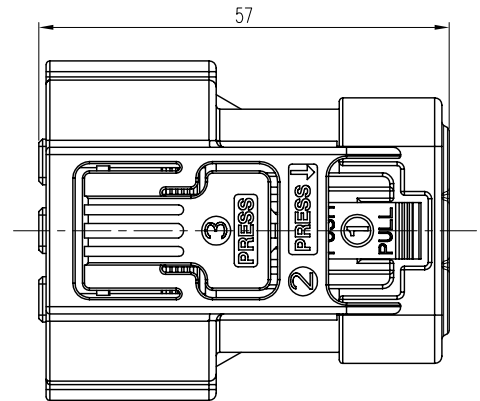
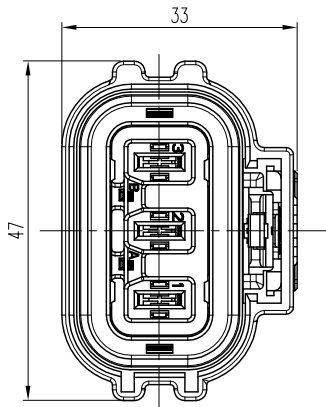
| Pin contact: crimping | Pin contact: crimping | Socket signal contact (HVIL) |
|------------------------------------|---------------------------------------|------------------------------------|
| P/N: C310023505 | P/N: C310003622S | P/N: C310003614S |
| | | |
| 2.5mm ² unshielded wire | 4 to 6mm ²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

PANEL MOUNTING DIMENSION

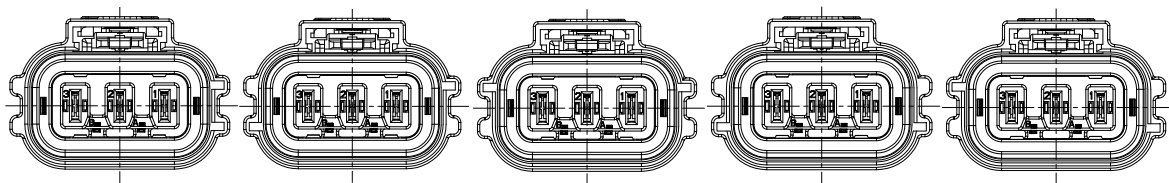
| PART NUMBER | INSERT ORIENTATIONS | PANEL MOUNTED DIMENSION |
|----------------|---------------------|-------------------------|
| HVSLC633 023 A | | |
| HVSLC633 023 B | | |
| HVSLC633 023 C | | |
| HVSLC633 023 D | | |

Excel|Mate Eco (HVSL 633)

PLUG



INSERT ORIENTATIONS



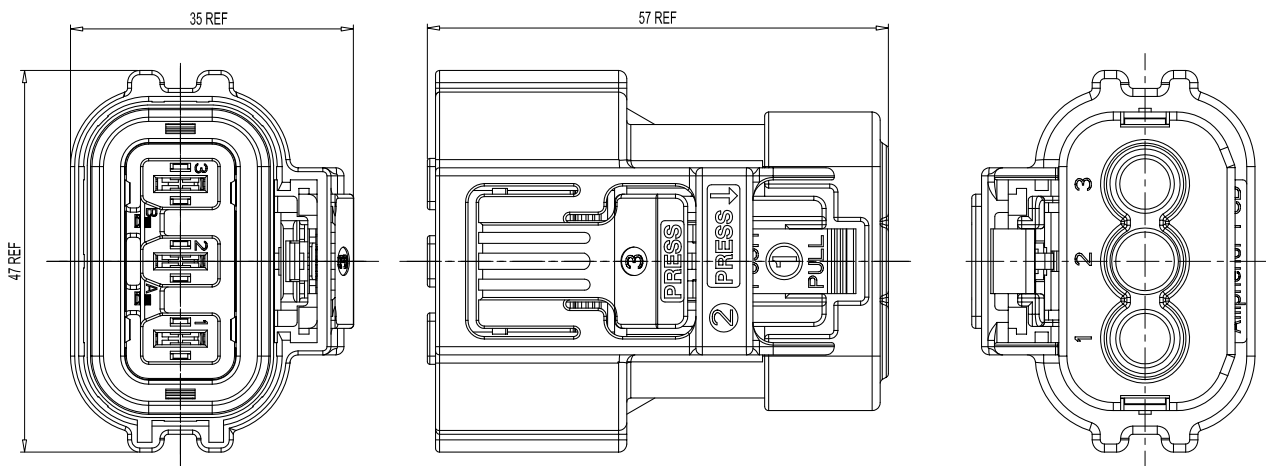
| | Coding A | Coding B | Coding C | Coding D | Coding E |
|-----|----------------|----------------|----------------|----------------|----------------|
| P/N | HVSL633 06 3 A | HVSL633 06 3 B | HVSL633 06 3 C | HVSL633 06 3 D | HVSL633 06 3 E |

CONTACTS

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

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

DUMMY PLUG



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

HOW TO ORDER (HVSL 633)

HOW TO ORDER: PLUG

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

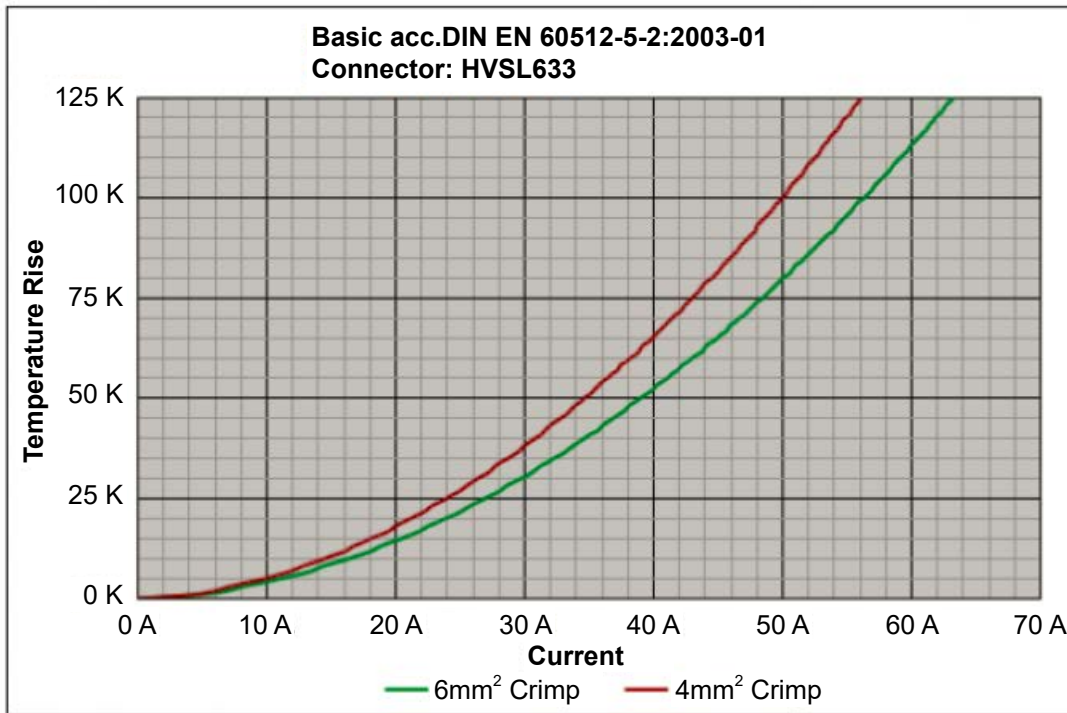
| | | HVSL633 | 06 | 3 | A | 0 | 04 | M | S1 |
|-------------------------------------|---|---------|----|---|---|---|----|---|----|
| Product type: | 06: Straight plug | | | | | | | | |
| Position: | 3: 3 positions | | | | | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: Coding C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

HOW TO ORDER: RECEPTACLES

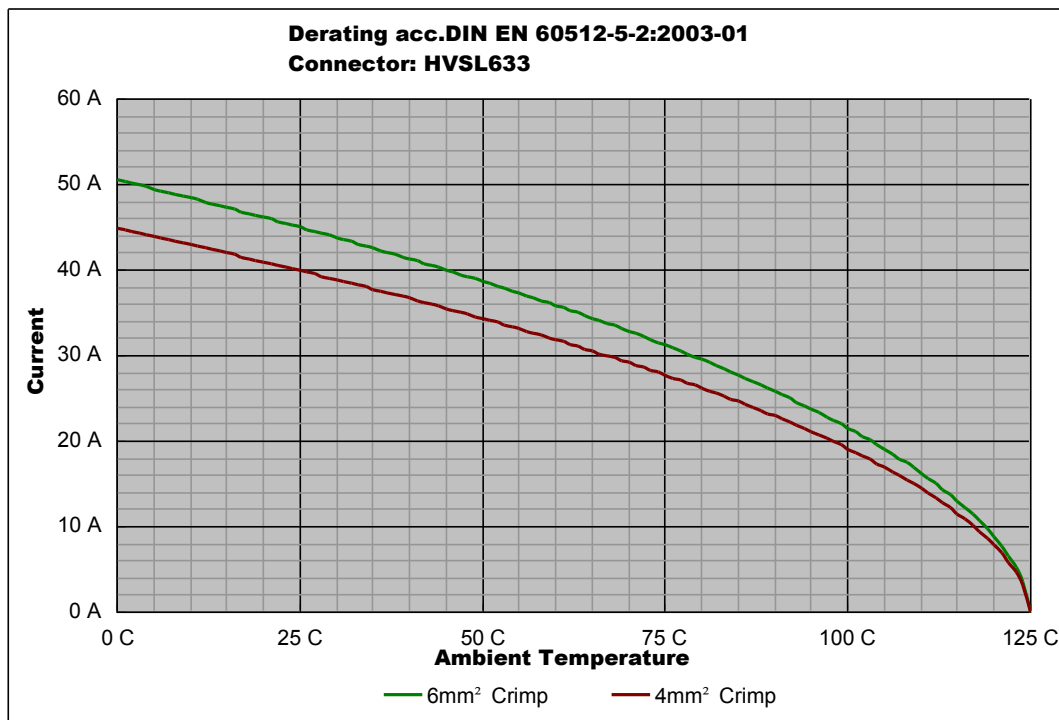
| | | HVSL633 | 02 | 3 | A |
|-------------------------------------|---|---------|----|---|---|
| Product type: | 02: Box mounted receptacle | | | | |
| Position: | 3: 3 positions | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: Coding C D: Coding D E: Coding E | | | | |

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

HVSL 633 | Temperature Rise



HVSL 633 | Derating Curve



Remark: tests carried out on the complete connector.

EXCEL | MATE Eco (HVSL 635B)

EXCEL | MATE Eco (HVSL635B)



HVSL635B

HVSL635B is a 5 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 40A and 2.5 to 6mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

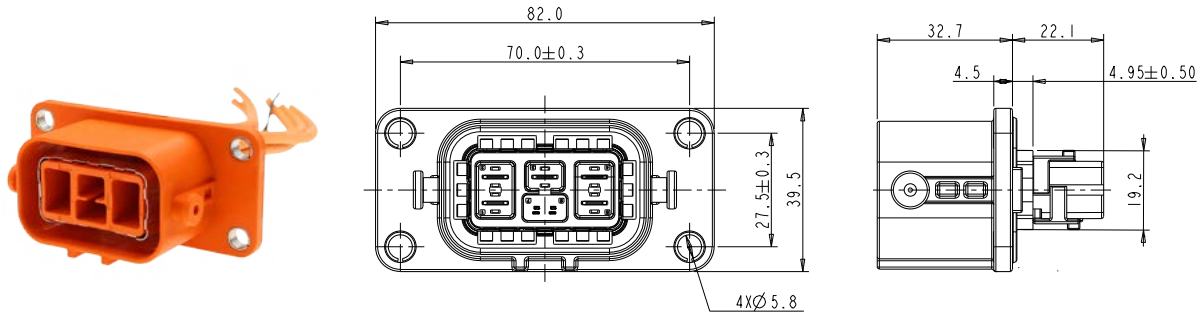
Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

CPA available

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

RECEPTACLE



CONTACTS

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

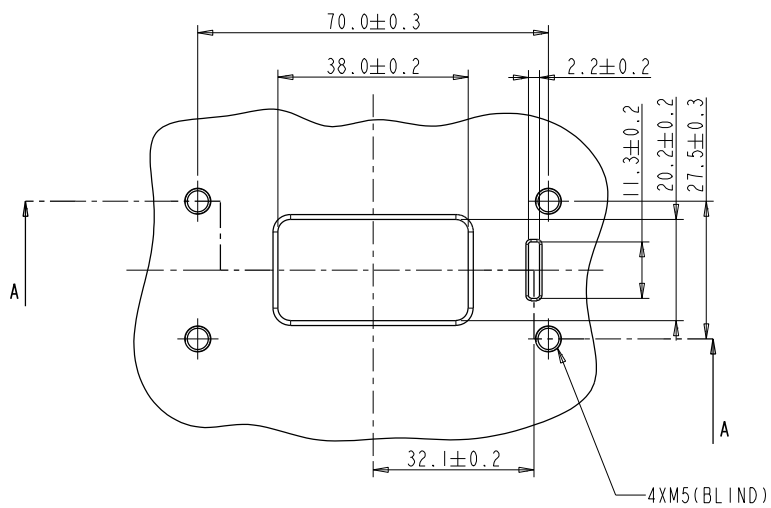
When customers purchase the complete connector, two TPAs are already included as part of the package. There is no need for them to make a separate purchase.

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

PROTECTION CAP

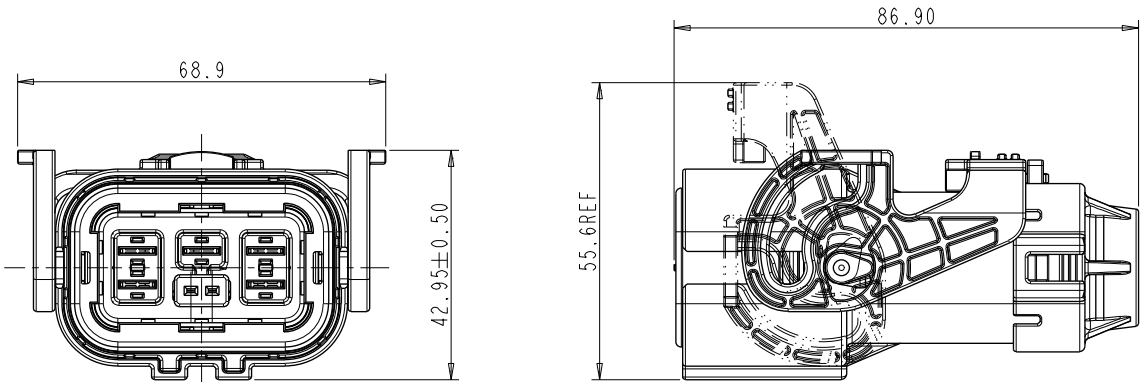


PANEL MOUNTING DIMENSION



MOUNTING INTERFACE SPECIFICATION
RECOMMENDED THICKNESS:3.0mm Min

PLUG



CONTACTS

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

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

HOW TO ORDER (HVSL 635B)

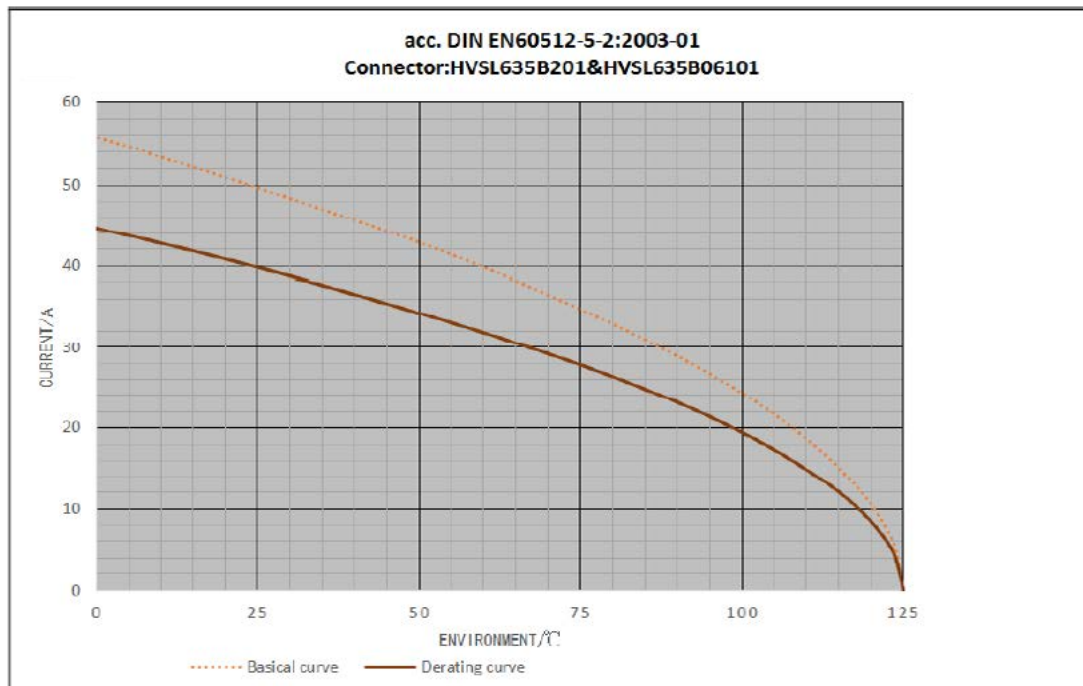
HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

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

HVSL 635B | Derating Curve



Derating curve

Remark: tests carried out on the complete connector.

Excel|Mate Eco (HVSL280)



HVSL280

HVSL280 is a 3 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity from 16 to 32A and 2.5 to 4mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

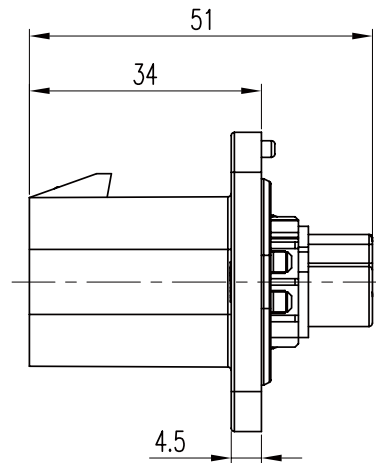
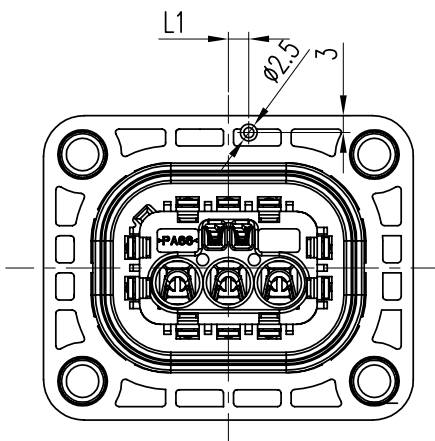
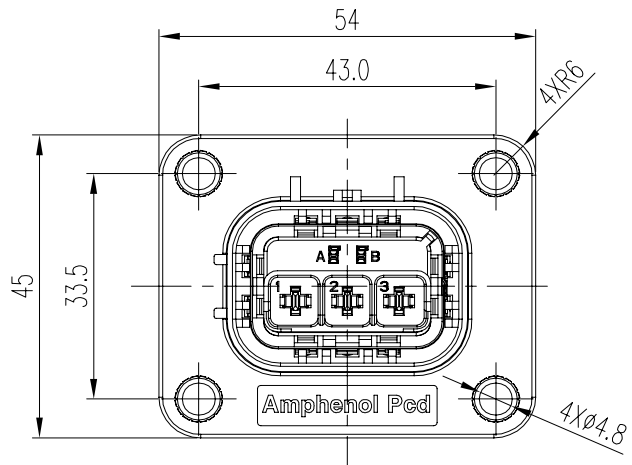
Touch-proof, IP2XB

Multiple coding positions

CPA available

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

RECEPTACLE



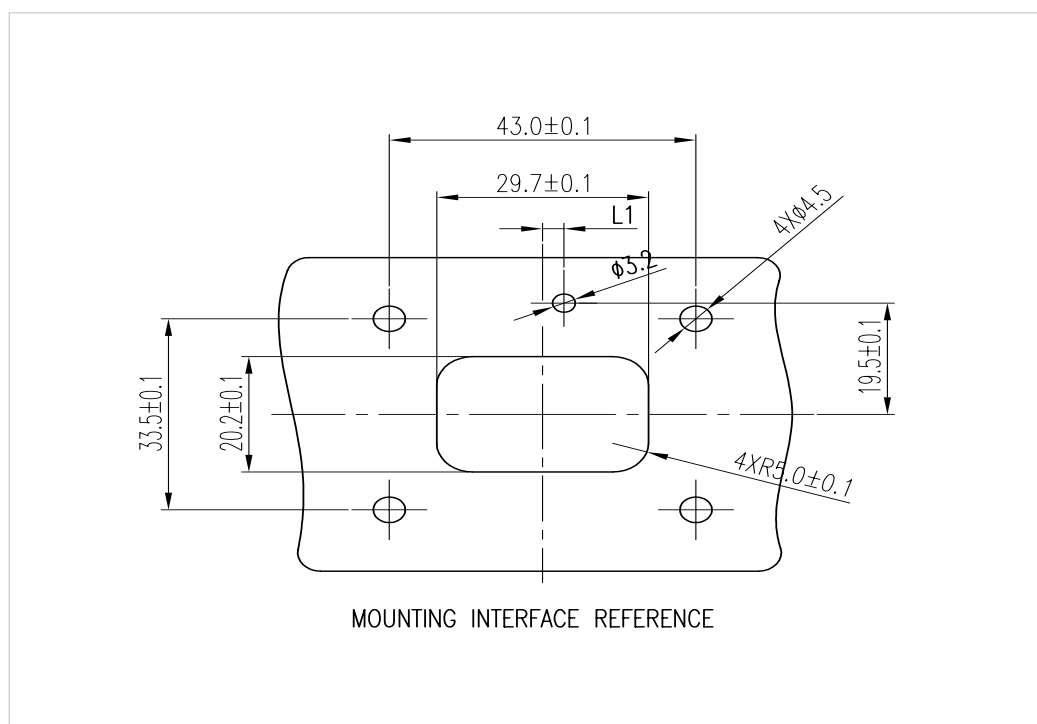
CONTACTS

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

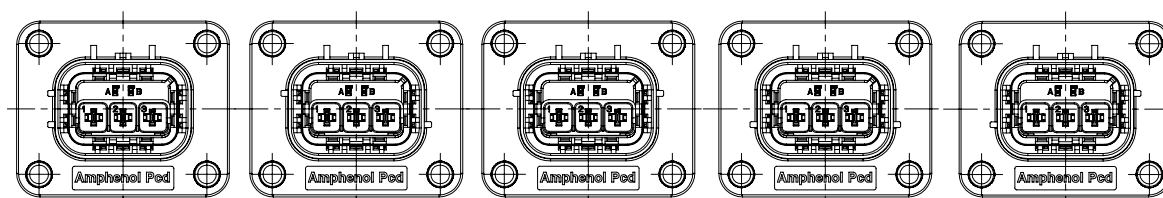
| Pin contact: crimping P/N: C310003611S | Pin signal contact (HVIL) P/N: C310003613S |
|---|---|
| | |
| 2.5 to 4mm ² unshielded wire | 0.5 to 0.75mm ² unshielded wire |

PANEL MOUNTING DIMENSION

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



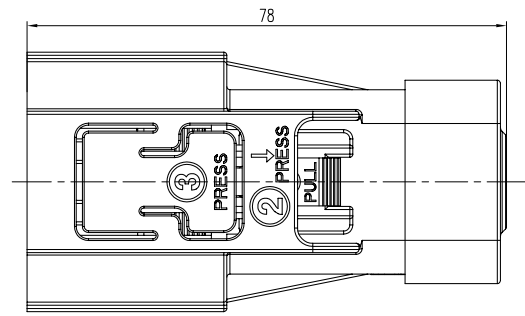
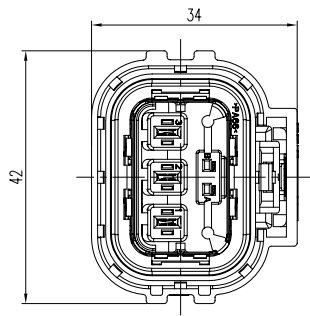
INSERT ORIENTATIONS



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

Excel|Mate Eco (HVSL 280)

PLUG

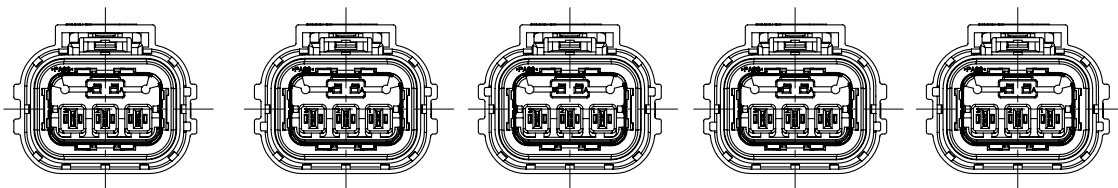


CONTACTS

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

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

INSERT ORIENTATIONS



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

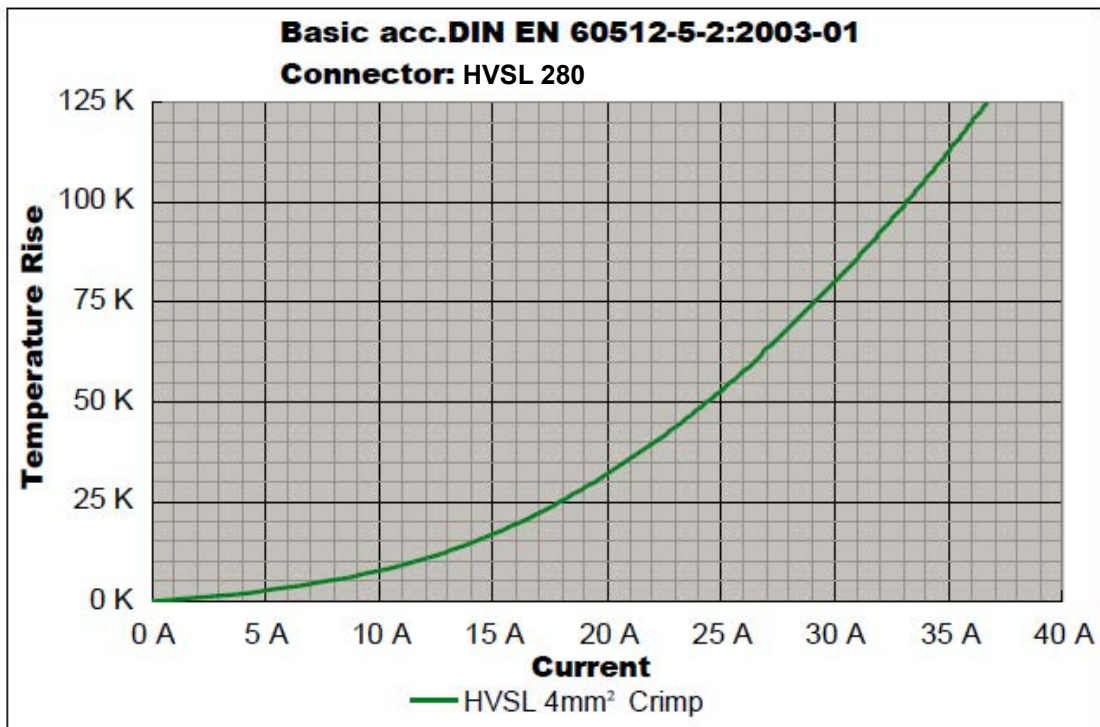
HOW TO ORDER: PLUG

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

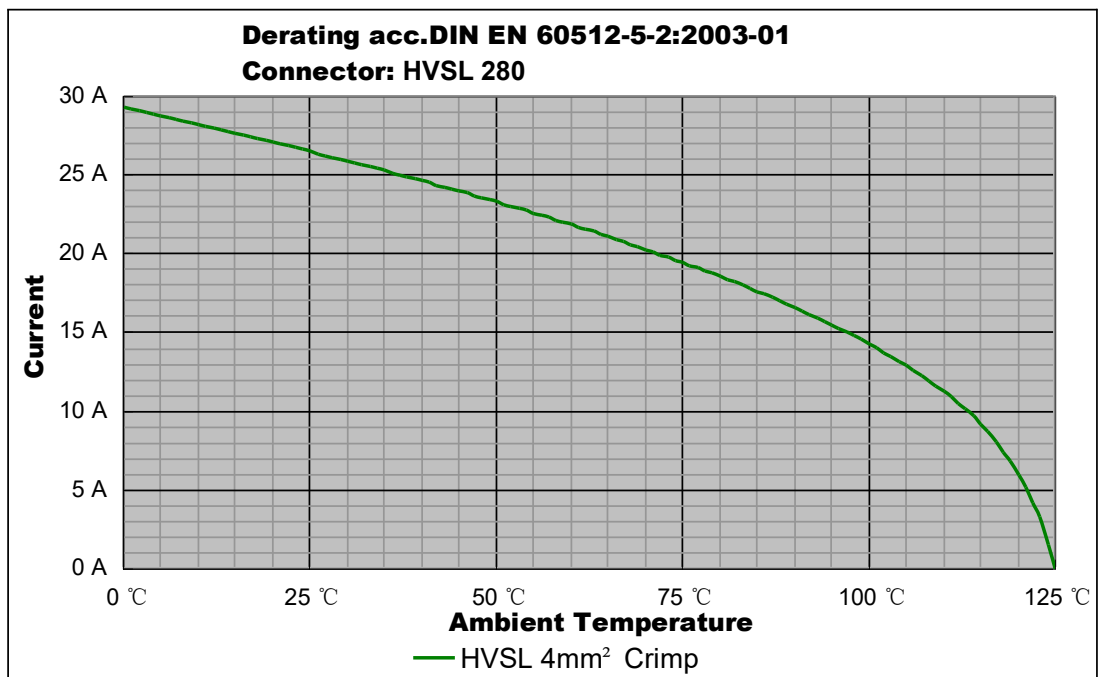
HOW TO ORDER: RECEPTACLE

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

HVSL 280 | Temperature Rise



HVSL 280 | Derating Curve



Remark: tests carried out on the complete connector.

Excel|Mate Eco (HVSL282)



HVSL282

HVSL282 is a 2 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity from 16 to 32A and 2.5 to 4mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

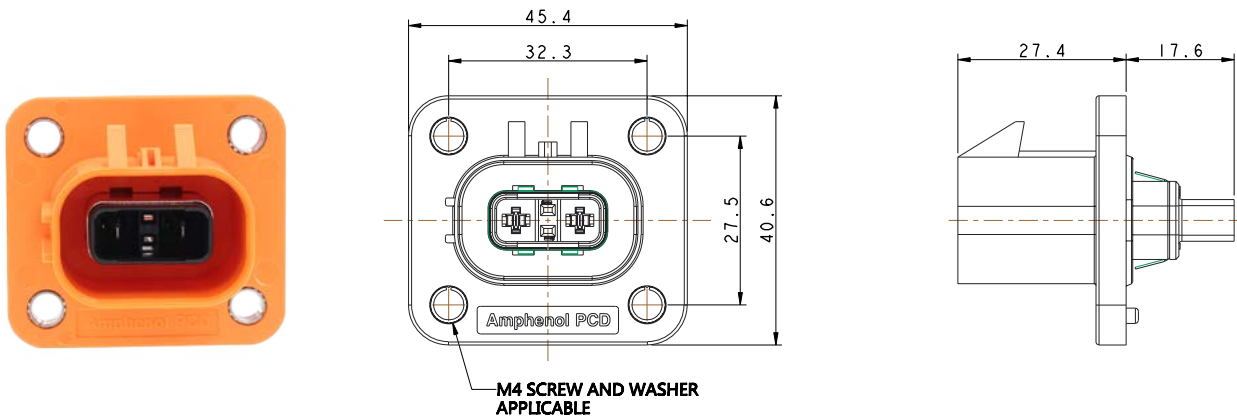
Touch-proof, IP2XB

Multiple coding positions

CPA available

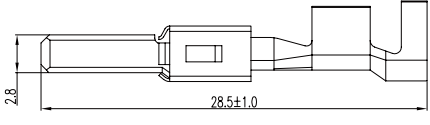
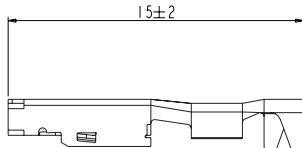
| MECHANICAL | |
|--------------------------------|--|
| Durability | ≥ 50 mating cycles |
| Wire range | 2.5 to 4 mm ² shielded wire |
| Insertion and extraction force | < 100N |
| Connection type | Crimping |
| Latching style | Two stage, finger actuated |
| HVIL | Integrated |
| CPA | Available |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

RECEPTACLE

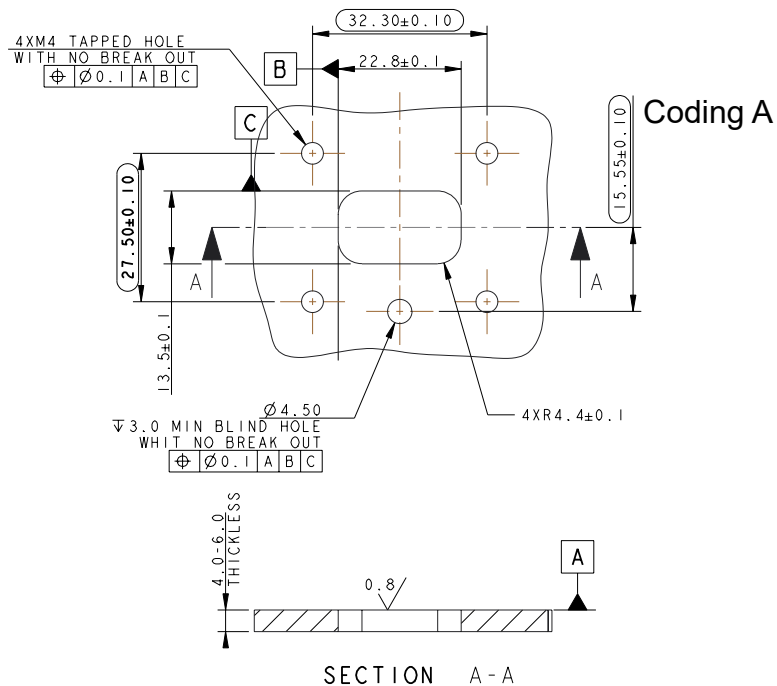


CONTACTS

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

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

PANEL MOUNTING DIMENSION



PANEL MOUNTING DIMENSION

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

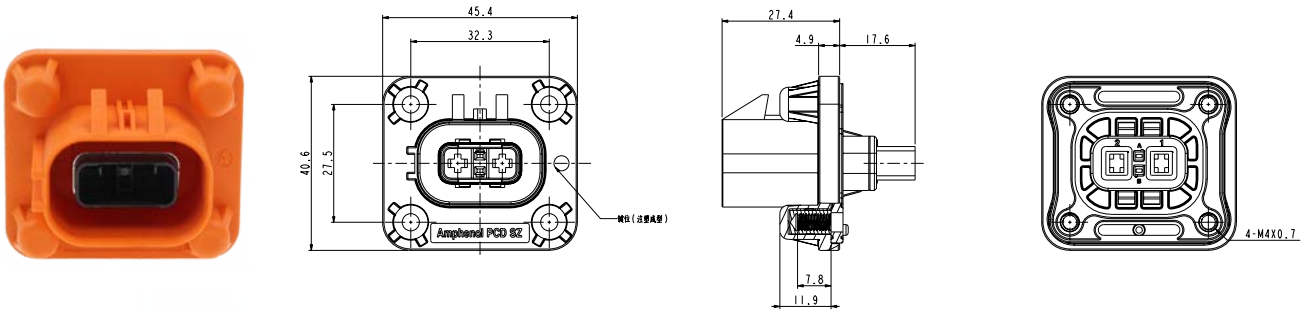
PANEL MOUNTING DIMENSION

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

PANEL MOUNTING DIMENSION

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

BLIND HOLE MOUNTED RECEPTACLE

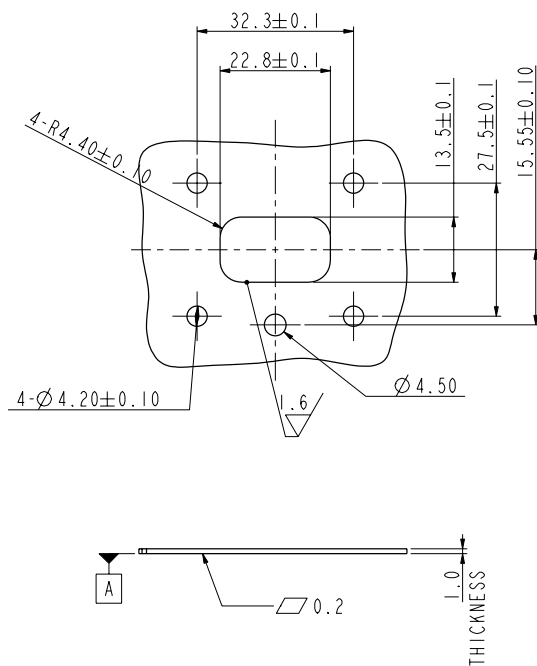


CONTACTS

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

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

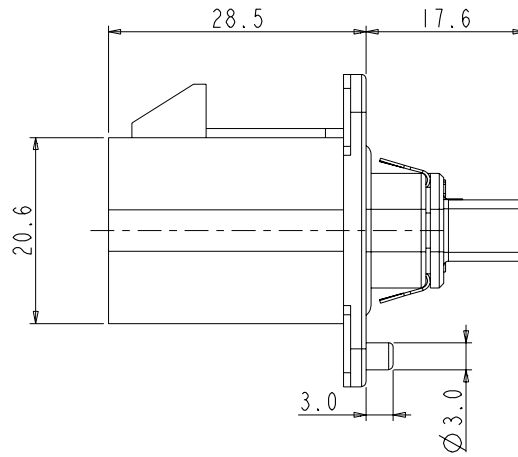
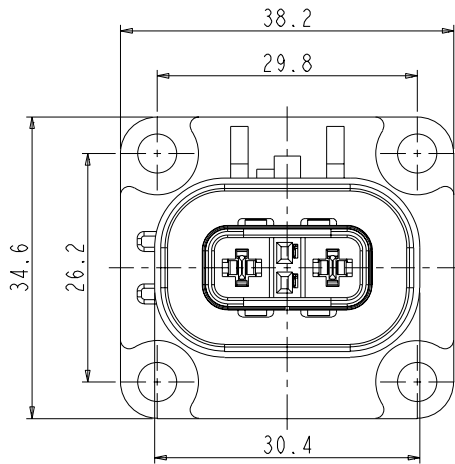
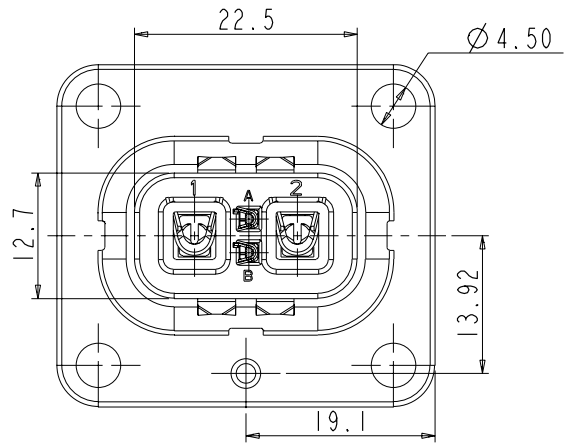
PANEL MOUNTING DIMENSION



PANEL MOUNTING DIMENSION

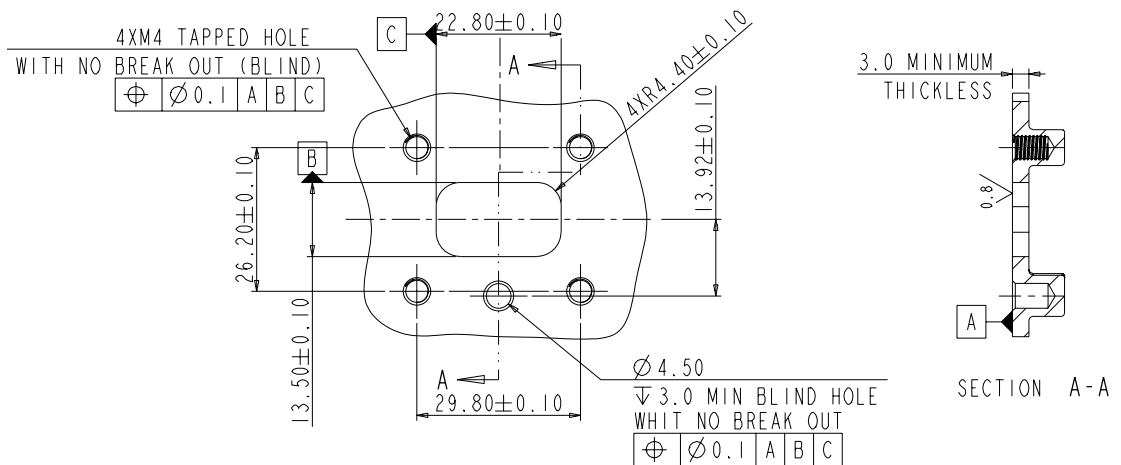
| Part number | INSERT ORIENTATIONS | | | PANEL MOUNTING DIMENSION |
|---------------|---------------------|--|--|--------------------------|
| HVSL282 032 A | | | | |
| HVSL282 032 B | | | | |
| HVSL282 032 C | | | | |
| HVSL282 032 D | | | | |
| HVSL282 032 E | | | | |
| HVSL282 032 F | | | | |

RECEPTACLE: METAL SHELL

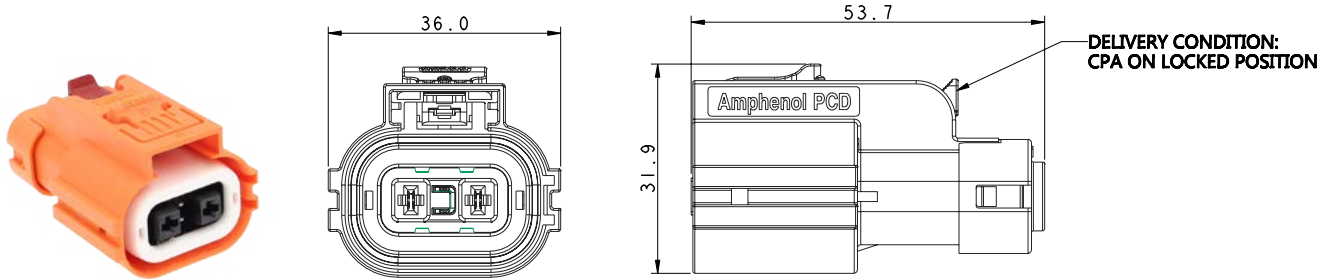


PANEL MOUNTING DIMENSION

PANEL CUT-OUT REFERENCE



PLUG

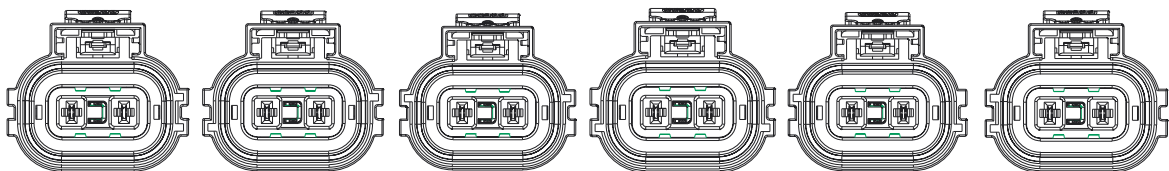


CONTACTS

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

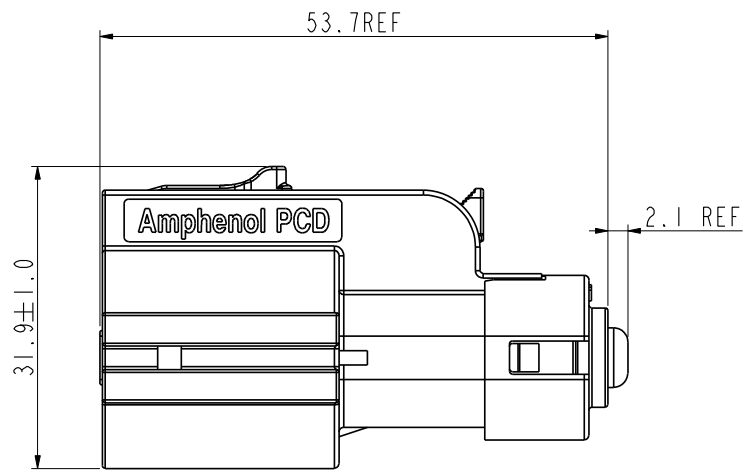
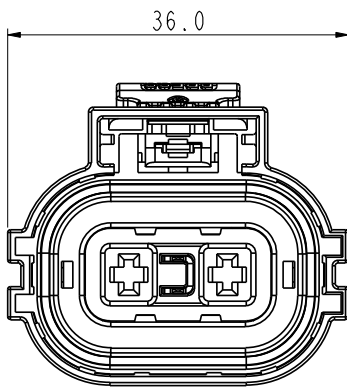
| Socket contact: crimping | HVIL contacts |
|---------------------------------------|-----------------------------|
| P/N: C310003612S | Integrated, no need to buy. |
| | |
| 2.5 to 4mm ² shielded wire | |

INSERT ORIENTATIONS



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

DUMMY PLUG



HVSL282 06 2 N 0

Product type:

06: Straight plug

Position:

2: 2 position

Coding / Alternate position:

N: No coding key

Interlock:

0: Without interlock | 1: With interlock

HOW TO ORDER: PLUG

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

HOW TO ORDER (HVSL 282)

HOW TO ORDER: RECEPTACLES

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

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

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

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

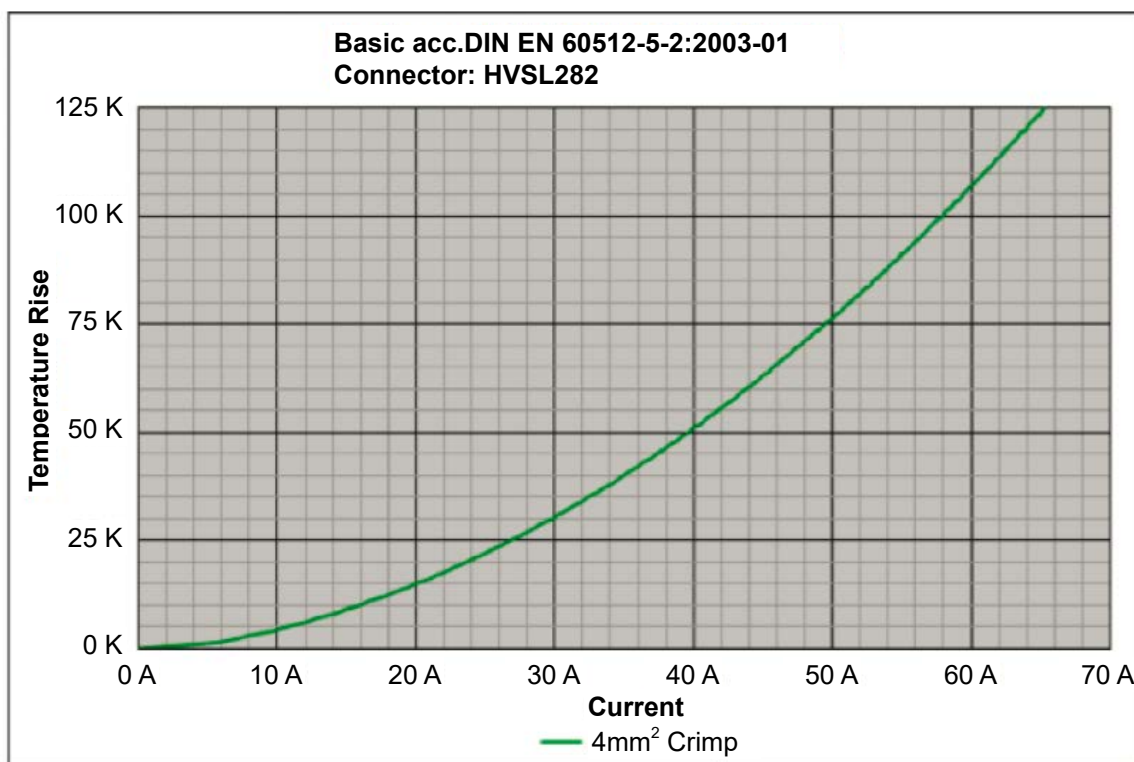
Remark: W stands for Waterproof.

RECEPTACLE: METAL SHELL

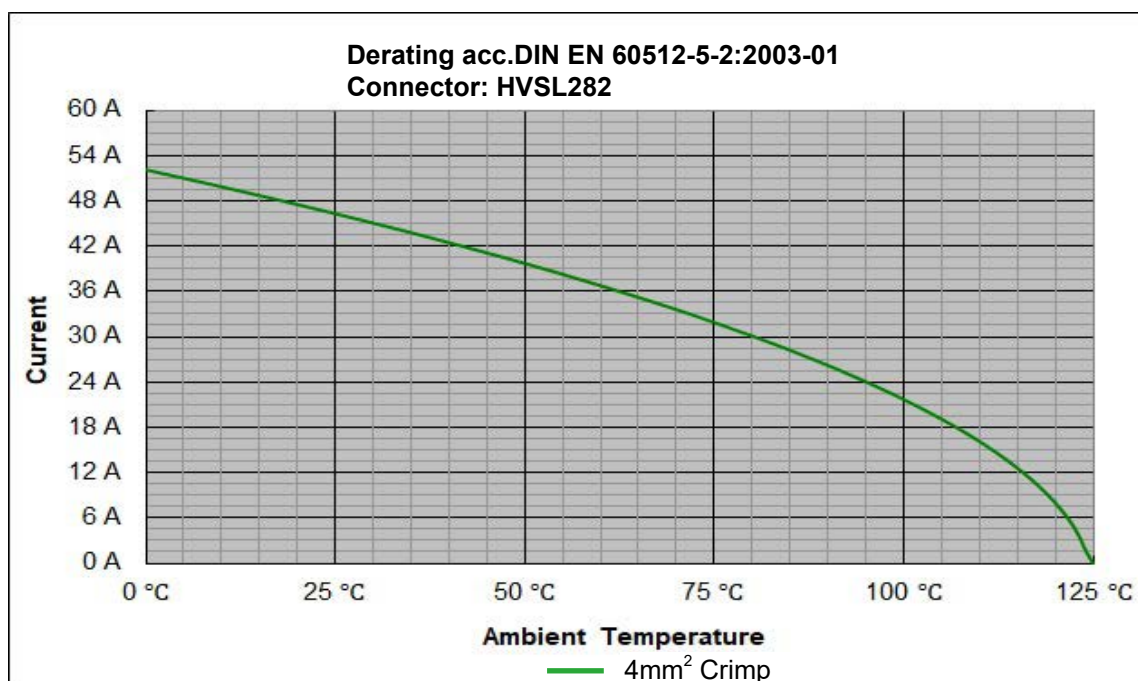
| | | | | |
|-------------------------------------|-----------------------------------|----|---|---|
| | HVSLM282 | 02 | 2 | A |
| Product type: | 02: Box mounted receptacle | | | |
| Position: | 2: 2 positions | | | |
| Coding / Alternate position: | A: Coding A | | | |

Remark: M stands for Metal.

HVSL 282 | Temperature Rise



HVSL 282 | Derating Curve



Remark: tests carried out on the complete connector.

Excel|Mate Eco (HVSL 362)

Excel|Mate Eco (HVSL362)



HVSL362

HVSL362 is a 2 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 95A and a 6 to 16mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

Multiple coding positions

CPA available

MECHANICAL

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

ELECTRICAL

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

ENVIRONMENTAL

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

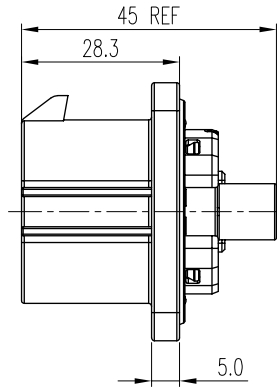
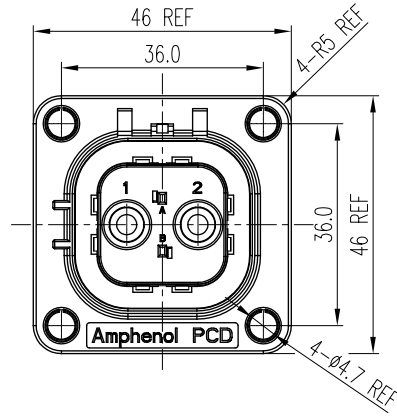
STANDARDS

| |
|----------|
| USCAR-2 |
| USCAR-37 |
| LV-215 |
| RoHS |

MATERIAL

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

RECEPTACLE

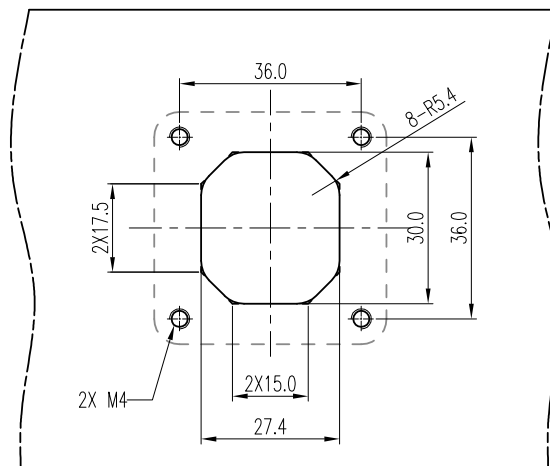


CONTACTS

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

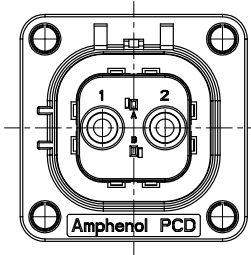
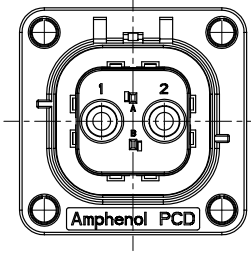
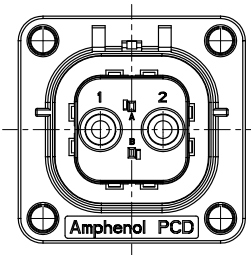
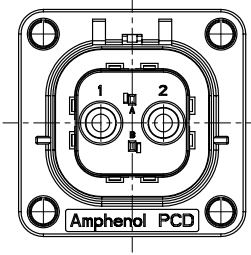
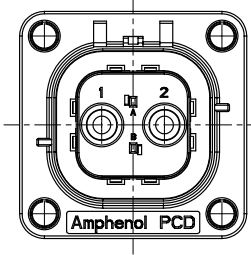
| CONTACTS | | | |
|------------------|----------------------------------|-----------------------------|------------------------------|
| HVIL CONTACTS | 6 to 10mm ² (Stamped) | 16mm ² (Stamped) | 16mm ² (Machined) |
| P/N: C310003614S | P/N: C3100235011 | P/N: P03BS00081 | P/N: P03BM00197 |
| | | |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

PANEL MOUNTING DIMENSION

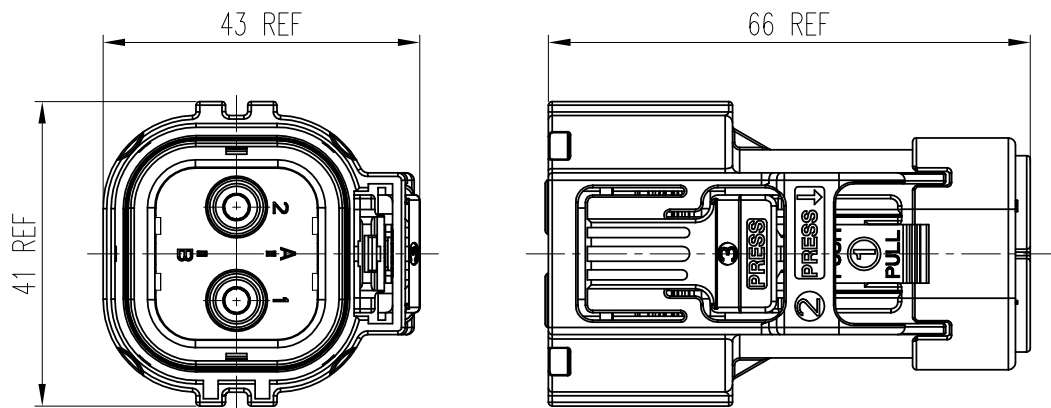


MOUNTING INTERFACE SPECIFICATION
RECOMMENDED THICKNESS:3.0mm Min

PANEL MOUNTING HOLES POSITIONS

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

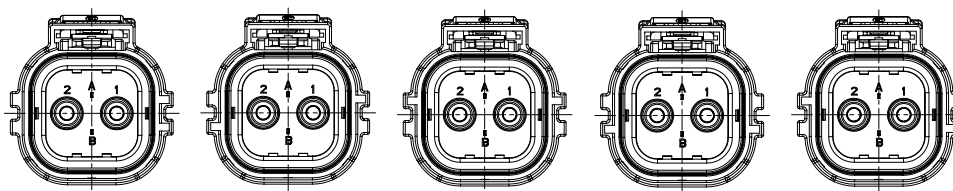
PLUG



CONTACTS

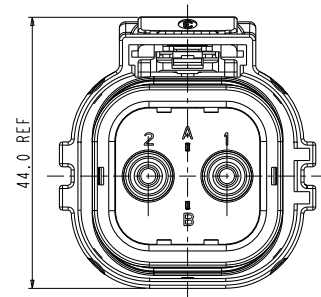
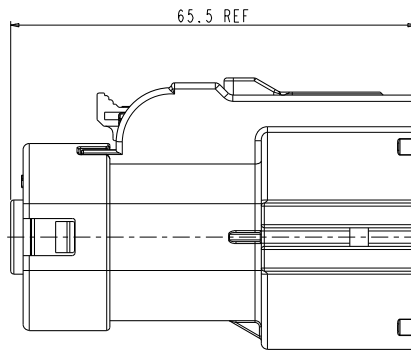
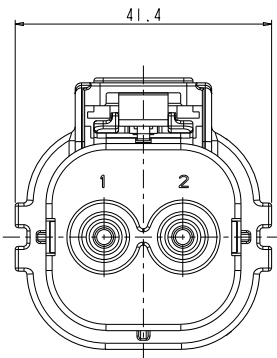
| All connectors do not include contacts. Please order them separately (ref: P/N below) | | | |
|---|----------------------------------|-----------------------------|------------------------------|
| CONTACTS | | | |
| HVIL CONTACTS | 6 to 10mm ² (Stamped) | 16mm ² (Stamped) | 16mm ² (Machined) |
| |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

INSERT ORIENTATIONS



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

DUMMY PLUG



Straight Plug



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

Right-Angle Plug



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

HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

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

Excel|Mate Eco (HVSL 362 Multicore)

Excel|Mate Eco (HVSL362 Multicore Plug)



HVSL362 Multicore

HVSL362 multicore is a 2 position plug with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 60A and a 6 to 10mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

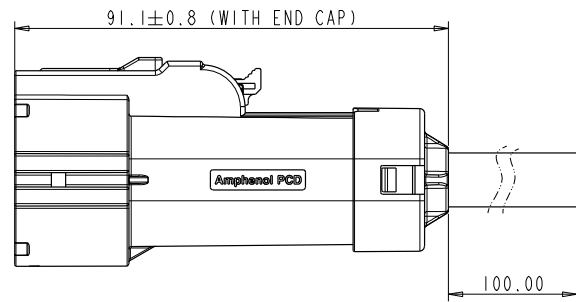
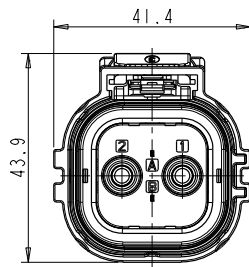
Touch-proof, IP2XB

Multiple coding positions

CPA available

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

PLUG



CABLE FIXATION: 100mm MAX

CONTACTS

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

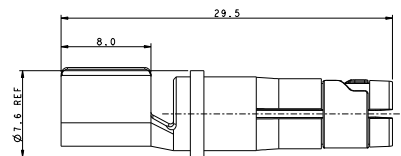
CONTACTS

HVIL CONTACTS

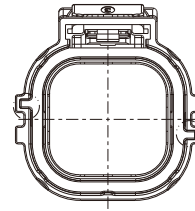
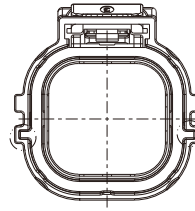
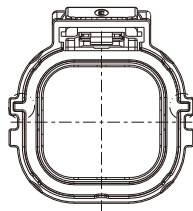
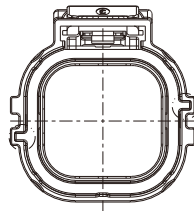
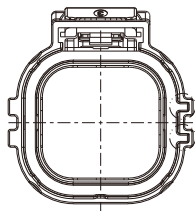
6 to 10mm² (Stamped)

P/N: C3100235021

Integrated, no need to buy.



INSERT ORIENTATIONS



Coding A

Coding B

Coding C

Coding D

Coding E

P/N HVSL362 062 A

P/N HVSL362 062 B

P/N HVSL362 062 C

P/N HVSL362 062 D

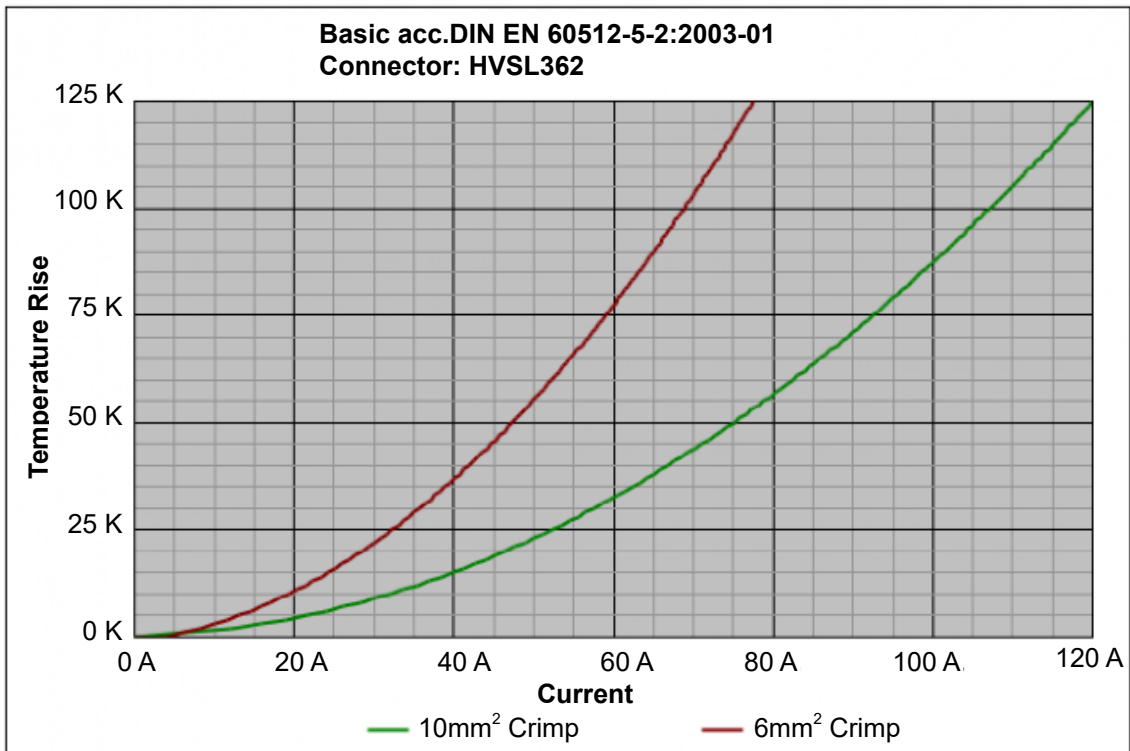
P/N HVSL362 062 E

HOW TO ORDER: MULTICORE PLUG

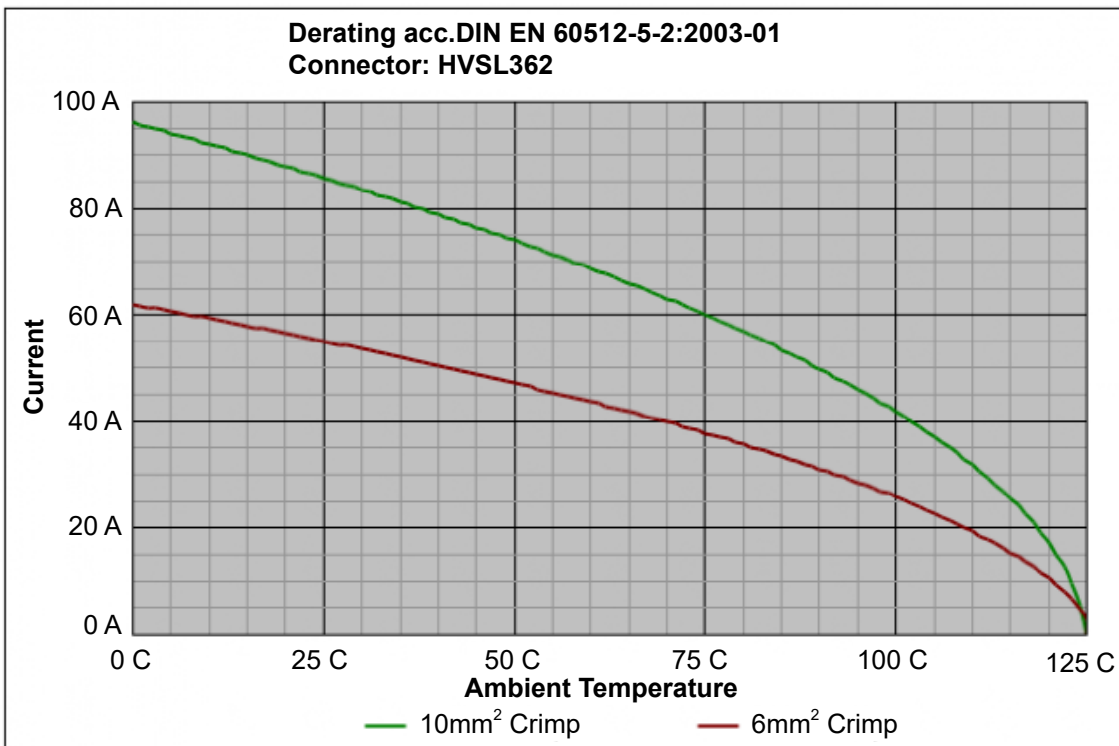
| | | | | | | | |
|-------------------------------------|--|----|---|---|---|----|---|
| | HVSL362 | 06 | 2 | A | 1 | 06 | M |
| Product type: | 06: Straight plug | | | | | | |
| Position: | 2: 2 positions | | | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: Coding C D: Coding D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

CHARTS (HVSL 362)

HVSL 362 | Temperature Rise



HVSL 362 | Derating Curve



Remark: tests carried out on the complete connector.

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



HVSL364

HVSL364 is a 3 to 4 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 80A and 2.5 to 16mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

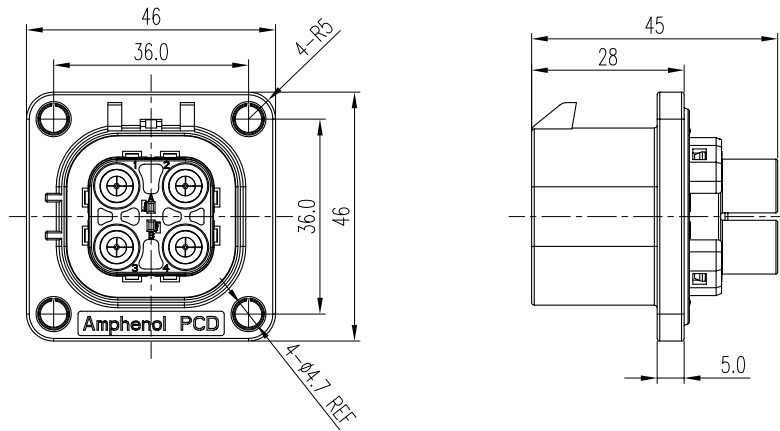
Touch-proof, IP2XB

Multiple coding positions

CPA available

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

RECEPTACLE



CONTACTS

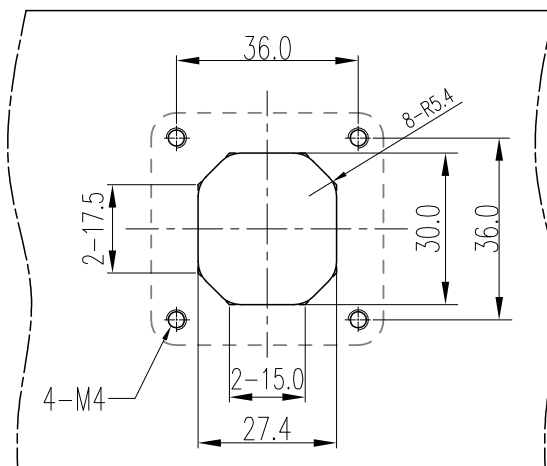
All connectors do not include contacts. Please order them separately (ref: P/N below)

CONTACTS (Pin contact)

| HVIL CONTACTS | 6mm ² (Machined) | 6mm ² (Stamped) | 4mm ² | 2.5mm ² |
|------------------|-----------------------------|----------------------------|------------------|--------------------|
| P/N: C310003614S | P/N: C200012101 | P/N: C310026000 | P/N: C310026004 | P/N: C310026006 |
| | | | | |

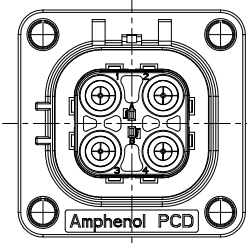
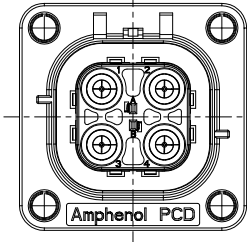
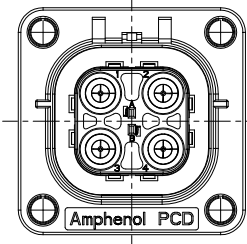
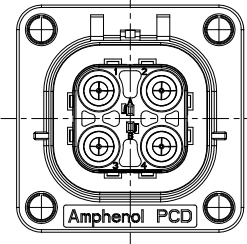
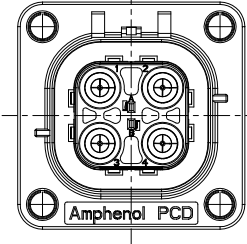
| 6 to 10mm ² (Stamped) | 16mm ² (Stamped) | Availability in terms of wire range |
|----------------------------------|-----------------------------|---|
| P/N: C3100235011 | P/N: P03BS00081 | 2.5mm² to 16mm² 3 to 4 PINS available |
| | | |

PANEL MOUNTING DIMENSION

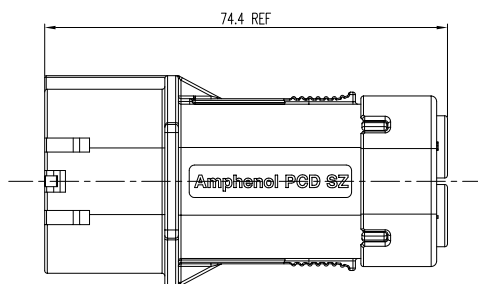
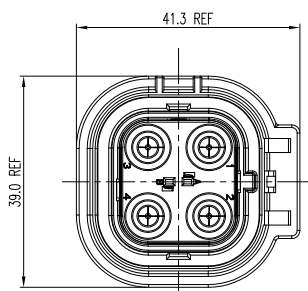


MOUNTING INTERFACE SPECIFICATION
RECOMMENDED THICKNESS: 3.0mm Min

PANEL MOUNTING HOLES POSITIONS

| PART NUMBER | INSERT ORIENTATIONS |
|---|--|
| <p>HVSL364 024 A (2.5 to 6mm²)</p> <p>HVSL364 024 A S11 (10 to 16mm²)</p> |  |
| <p>HVSL364 024 B (2.5 to 6mm²)</p> <p>HVSL364 024 B S11 (10 to 16mm²)</p> |  |
| <p>HVSL364 024 C (2.5 to 6mm²)</p> <p>HVSL364 024 C S11 (10 to 16mm²)</p> |  |
| <p>HVSL364 024 D (2.5 to 6mm²)</p> <p>HVSL364 024 D S11 (10 to 16mm²)</p> |  |
| <p>HVSL364 024 E (2.5 to 6mm²)</p> <p>HVSL364 024 E S11 (10 to 16mm²)</p> |  |

RECEPTACLE IN-LINE



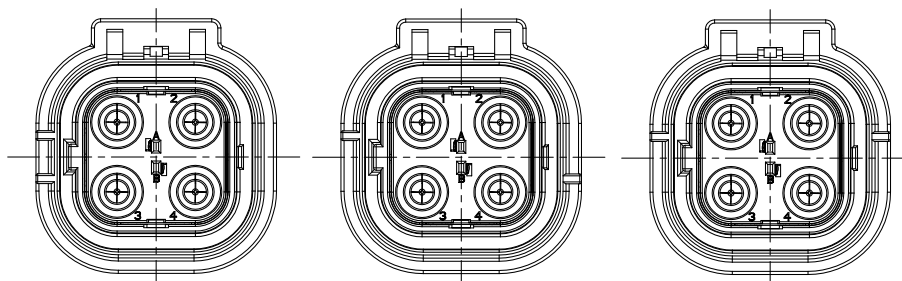
CONTACTS

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

CONTACTS (Pin contact)

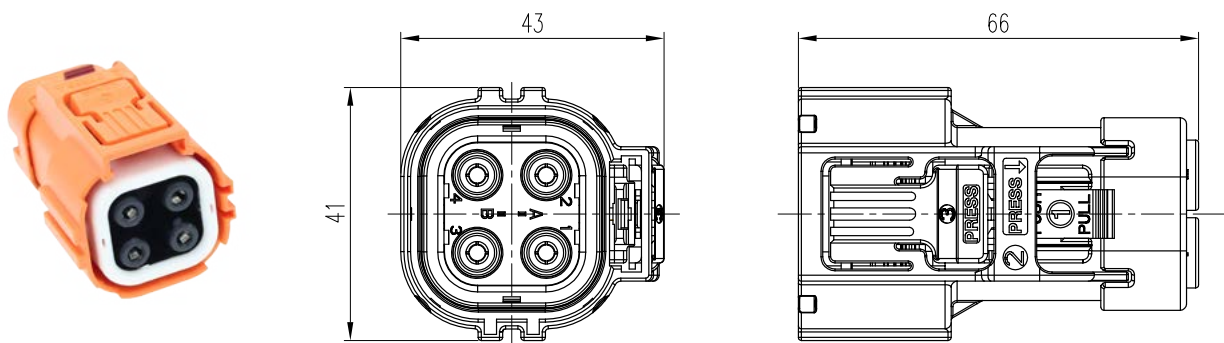
| HVIL CONTACTS | 6mm ² (Machined) | 6mm ² (Stamped) | 4mm ² | 2.5mm ² |
|----------------------------------|-----------------------------|----------------------------|------------------|---|
| P/N: C310003614S | P/N: C200012101 | P/N: C310026000 | P/N: C310026004 | P/N: C310026006 |
| | | | | |
| 6 to 10mm ² (Stamped) | | 6AWG (Stamped) | | Availability in terms of wire range 2.5mm² to 6mm² 4 PINS only 10mm² to 13.3mm² (6AWG) 3 and 4 PINS both available |
| P/N: C3100235011 | | P/N: P03BS00081 | | |
| | | | | |

INSERT ORIENTATIONS



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

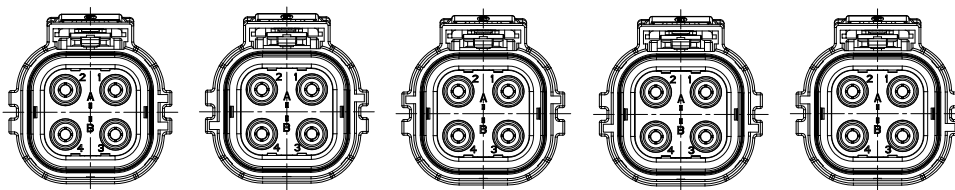
PLUG



CONTACTS

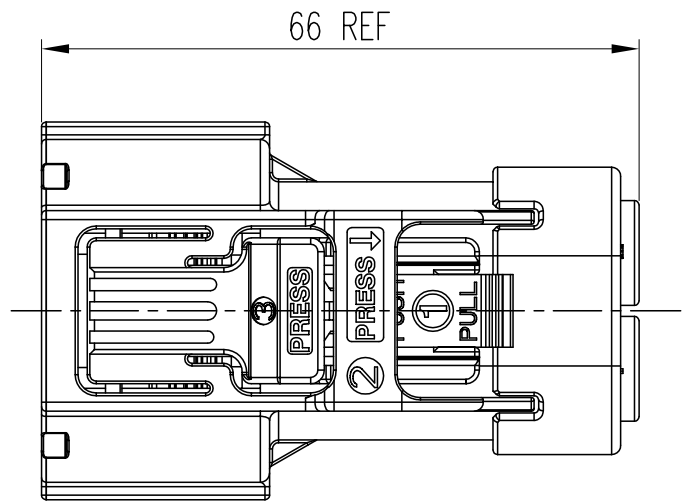
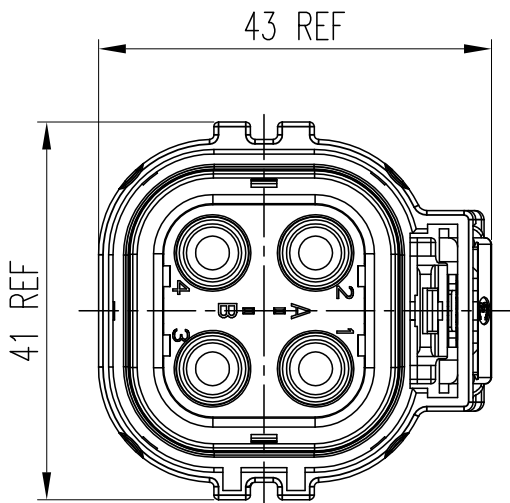
| All connectors do not include contacts. Please order them separately (ref: P/N below) | | | | |
|---|-----------------------------|--|------------------|--------------------|
| CONTACTS (Socket contact) | | | | |
| HVIL CONTACTS | 6mm ² (Machined) | 6mm ² (Stamped) | 4mm ² | 2.5mm ² |
| Integrated, no need to buy. - | P/N: C200012102 | P/N: C310026001 | P/N: C310026005 | P/N: C310026007 |
| | | | | |
| 6 to 10mm ² (Stamped) | 16mm ² (Stamped) | Availability in terms of wire range | | |
| P/N: C3100235021 | P/N: P03BS00080 | 2.5mm² to 6mm² 4 PINS only | | |
| | | 10mm² to 16mm² 3 and 4 PINS both available | | |

INSERT ORIENTATIONS



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

DUMMY PLUG



HVSL364 06 4 A S5

Product type:

06: Straight plug

Position:

4: 4 position

Coding / Alternate position:

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

Dummy plug:

S5

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

| | HVSL364 | 06 | 4 | A | 0 | 03 | I |
|-------------------------------------|--|----|---|---|---|----|---|
| Product type: | 06: Straight plug | | | | | | |
| Position: | 4: 4 position | | | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: Coding C D: Coding D E: Coding E | | | | | | |
| Interlock: | 0: Without interlock 1: With interlock | | | | | | |
| Cable size: | 03: 2.5mm^2 04: 4mm^2 06: 6mm^2 | | | | | | |
| Wire type: | I: Individually shielded wire | | | | | | |

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

| | HVSL364 | 02 | 4 | A | | | |
|-------------------------------------|--|----|---|---|--|--|--|
| Product type: | 02: Box mounted receptacle | | | | | | |
| Position: | 4: 4 positions | | | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: Coding C D: Coding D E: Coding E | | | | | | |

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

HOW TO ORDER (HVSL 364)

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

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

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

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

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

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



HVSL364 Multicore

HVSL364 multicore is a 4 position plug with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 40A and 2.5 to 6mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

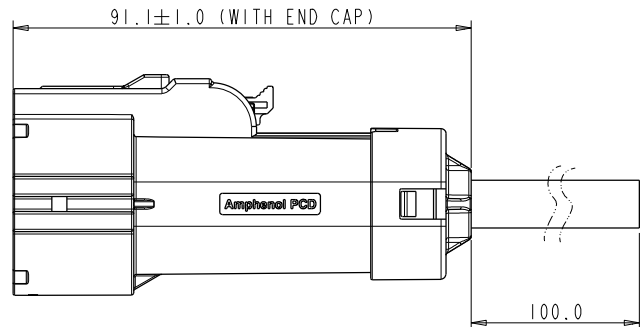
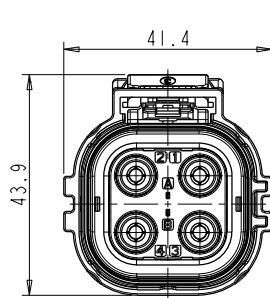
Multiple coding positions

CPA available

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

Excel|Mate Eco (HVSL 364 Multicore)

PLUG



CABLE FIXATION: 100mm MAX

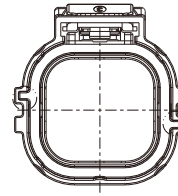
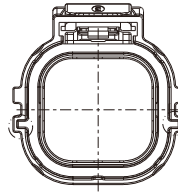
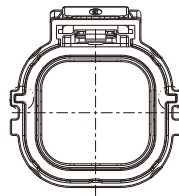
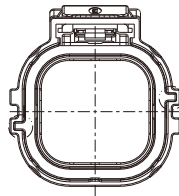
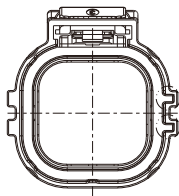
CONTACTS

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

CONTACTS

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

INSERT ORIENTATIONS



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

HOW TO ORDER: MULTICORE PLUG

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

EXCEL | MATE Eco (HVSL365 5 PIN connector)



HVSL365

HVSL365 is a 5 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 40A and 2.5 to 6mm² crimping cable. The two signal contacts offer a rated current up to 5A and 0.5 to 0.75mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

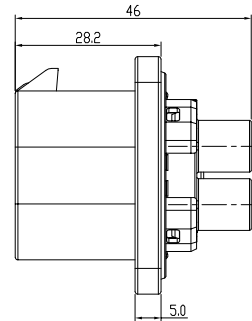
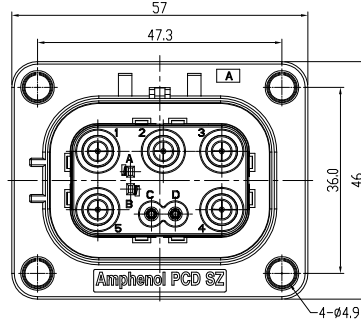
Touch-proof, IP2XB

Multiple coding positions

CPA available

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

RECEPTACLE



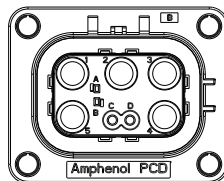
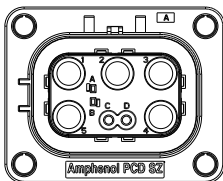
CONTACTS

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

CONTACTS (Pin contact)

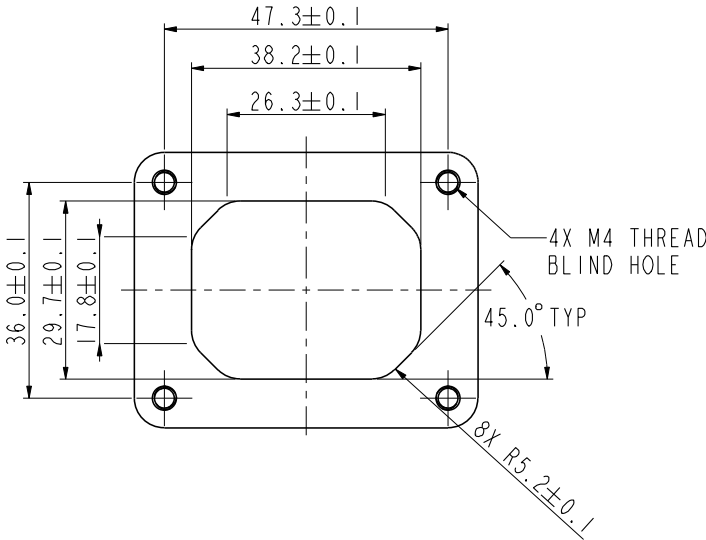
| HVIL contacts | 2.5mm ² | 4 to 6mm ² | Signal contacts |
|------------------|--------------------|-----------------------|------------------|
| P/N: C310003614S | P/N: C310026002 | P/N: C310026000 | P/N: LVRC20SC01S |
| | | | |

INSERT ORIENTATIONS



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

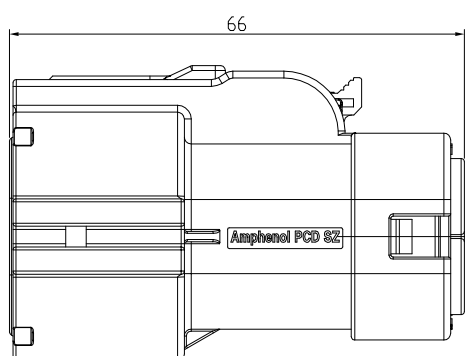
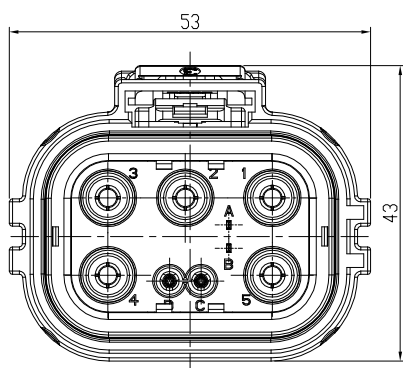
PANEL MOUNTING DIMENSION



PANEL MOUNTING HOLES POSITIONS

| PART NUMBER | INSERT ORIENTATIONS |
|---------------|---------------------|
| HVSL365 025 A | |
| HVSL365 025 B | |

PLUG



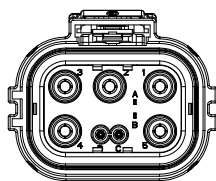
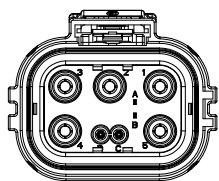
CONTACTS

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

CONTACTS (Socket contact)

| HVIL CONTACTS | 2.5mm ² | 4 to 6mm ² | Signal contacts |
|-----------------------------|--------------------|-----------------------|-------------------|
| Integrated, no need to buy. | P/N: C310026003 | P/N: C310026001 | P/N: L17D3D475T75 |
| | | | |

INSERT ORIENTATIONS



P/N

Coding A
HVSL365 065 A XXXI

Coding B
HVSL365 065 B XXXI

HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

| | | HVSL365 | 02 | 5 | A |
|-------------------------------------|--|---------|----|---|---|
| Product type: | 02: Box mounted receptacle | | | | |
| Position: | 5: 5 positions | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B | | | | |

EXCEL | MATE Eco (HVSL 366)

EXCEL | MATE Eco (HVSL366)



HVSL366

HVSL366 is a 6 position connector with plastic housing, high voltage, integrated HVIL. It provides a current carrying capacity up to 40A and 2.5 to 6mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

Two-stage, tool or thumb activated latching

No tool required to unmate

Sealing, IP67, IP6K9K (mated)

Touch-proof, IP2XB

Multiple coding positions

CPA available

MECHANICAL

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

ELECTRICAL

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

ENVIRONMENTAL

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

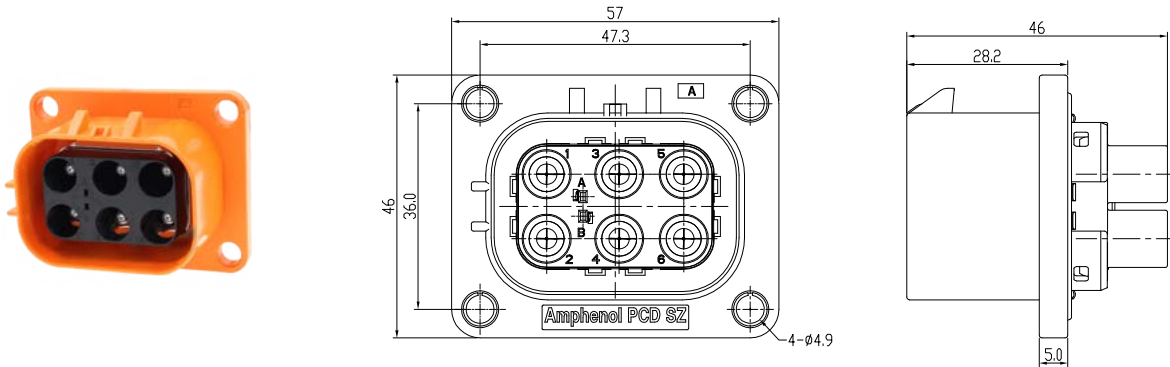
STANDARDS

| |
|----------|
| USCAR-2 |
| USCAR-37 |
| LV-215 |
| RoHS |

MATERIAL

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

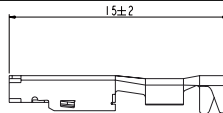
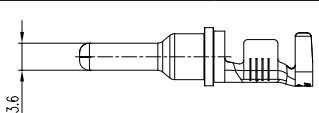
RECEPTACLE



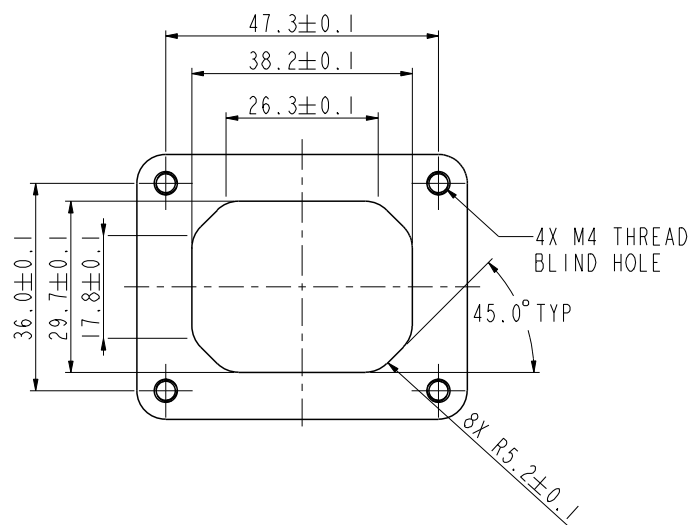
CONTACTS

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

CONTACTS (Pin contact)

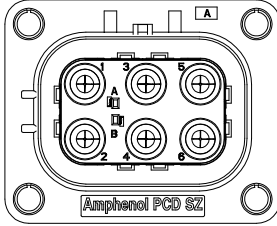
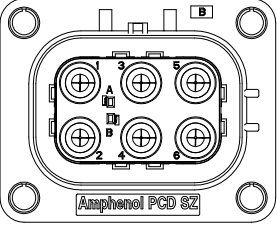
| HVIL contacts | 2.5mm ² | 4 to 6mm ² |
|---|--|-----------------------|
| P/N: C310003614S | P/N: C310026002 | P/N: C310026000 |
|  |  | |

PANEL MOUNTING DIMENSION

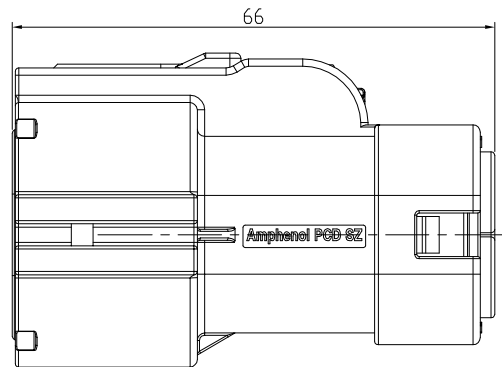
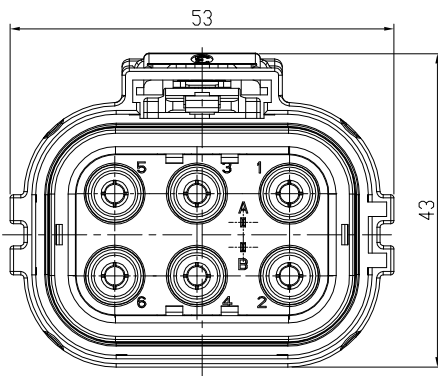


MOUNTING INTERFACE SPECIFICATION
RECOMMENDED THICKNESS: 3.0mm Min

PANEL MOUNTING HOLES POSITIONS

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

PLUG

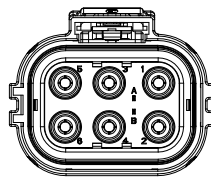
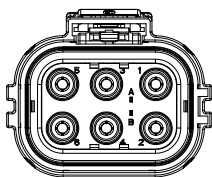


CONTACTS

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

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

INSERT ORIENTATIONS



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

HOW TO ORDER (HVSL 366)

HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

| | HVSL366 | 02 | 6 | A |
|-------------------------------------|---------|--|---|---|
| Product type: | | 02: Box mounted receptacle | | |
| Position: | | 6: 6 positions | | |
| Coding / Alternate position: | | A: Coding A B: Coding B | | |

EXCEL | MATE Metal: 2 PIN & 3 PIN CONNECTOR



EXCEL | MATE Metal

EXCEL | MATE Metal is a 2 pin and 3 pin connector with current carrying capacity from 80 to 120A and 16 to 25mm² crimping cable.

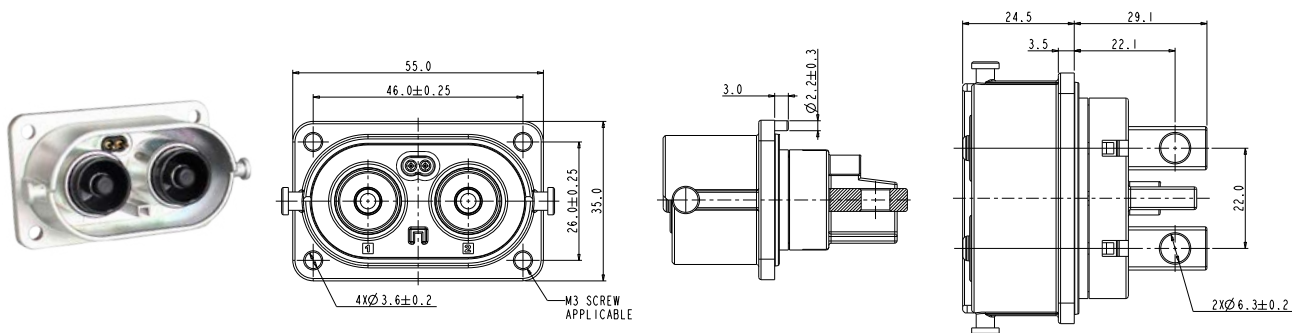
Specially designed for battery, inverters, junction boxes, power distribution boxes and others HEV devices' equipment.

KEY FEATURES

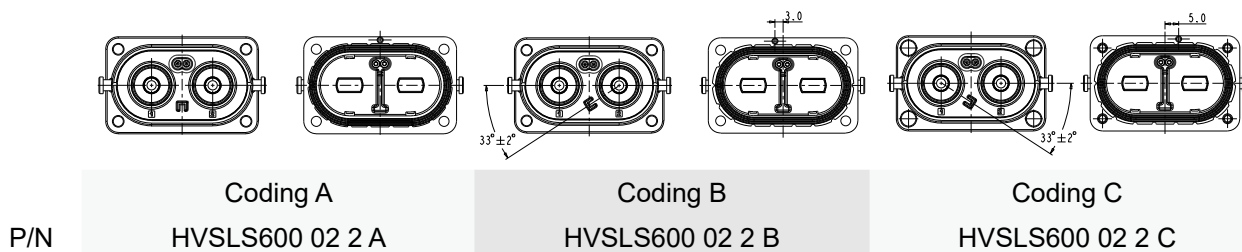
- Integrated internal HVIL
- Current rating up to 120A@ ambient temperature 70°C
- No tool required to unmate
- Sealing, IP67 (mated), IP6K9K
- Touch-proof, IP2XB
- Multiple coding positions
- CPA available

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

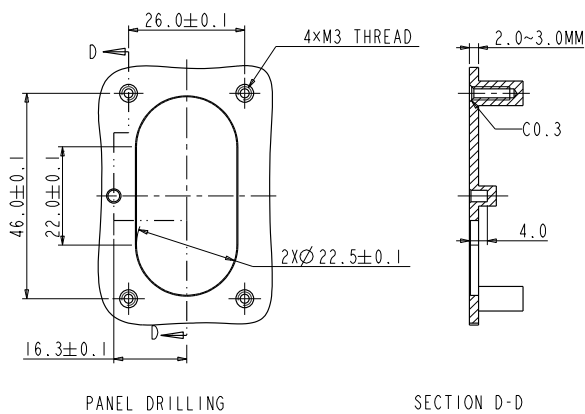
2 PIN RECEPTACLE



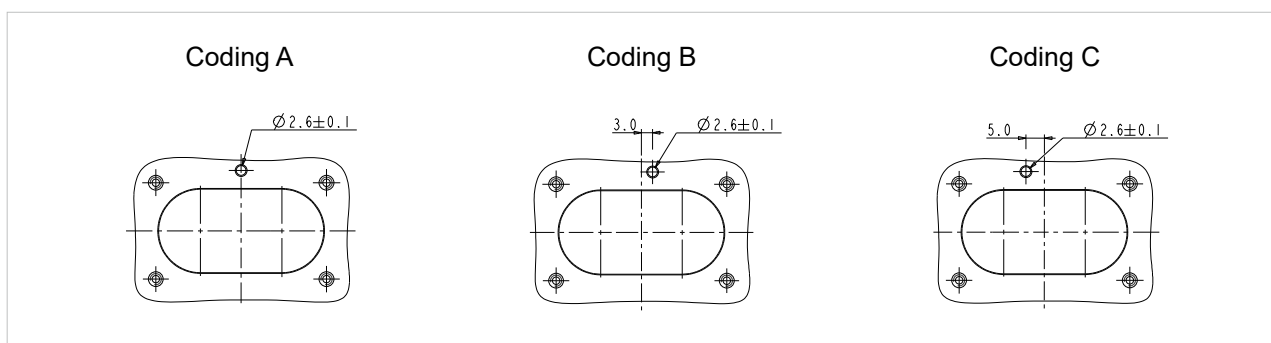
INSERT ORIENTATIONS



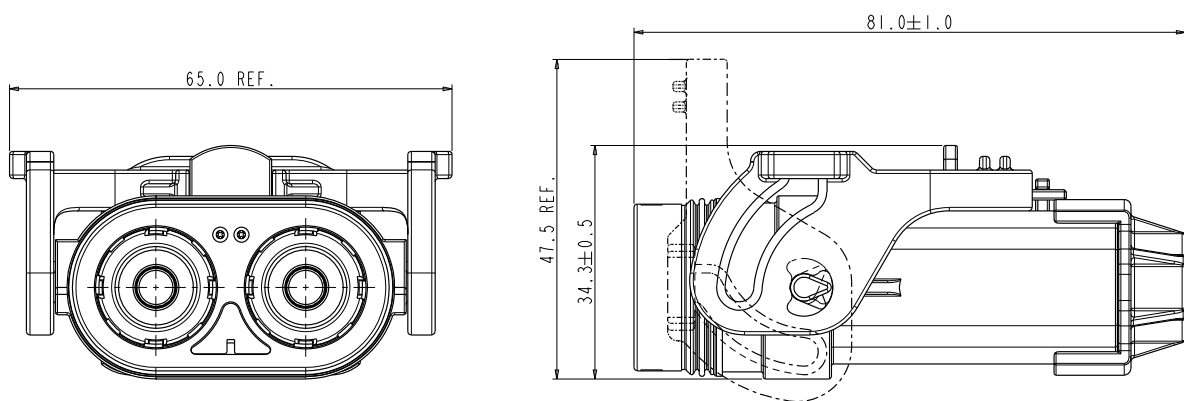
PANEL MOUNTING DIMENSIONS



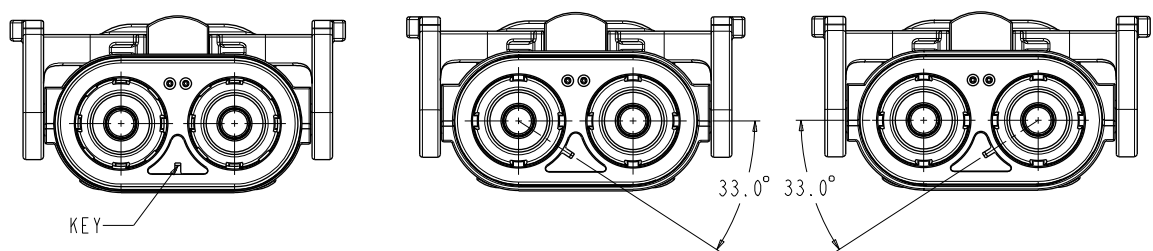
INSERT ORIENTATIONS



2 PIN STRAIGHT PLUG



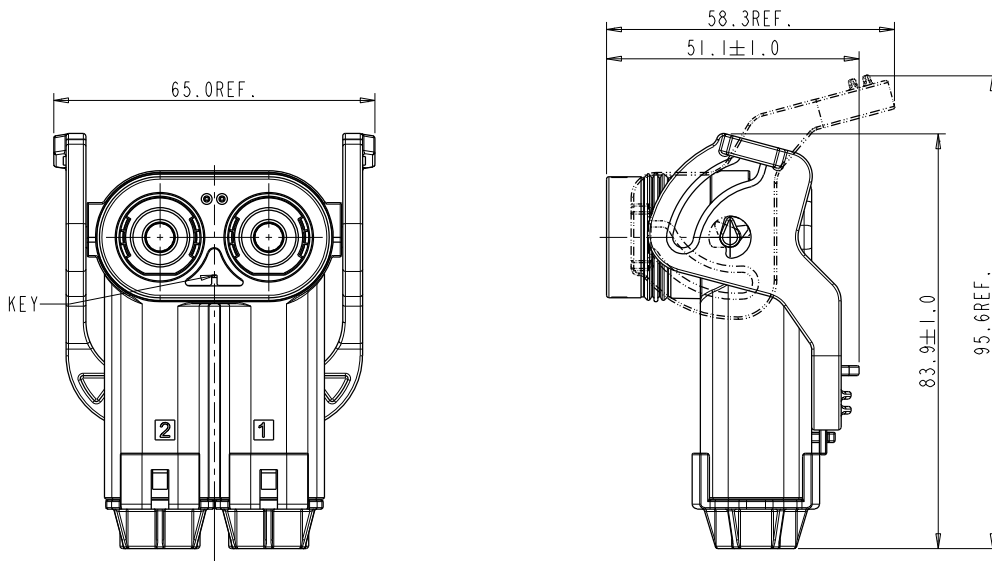
INSERT ORIENTATIONS



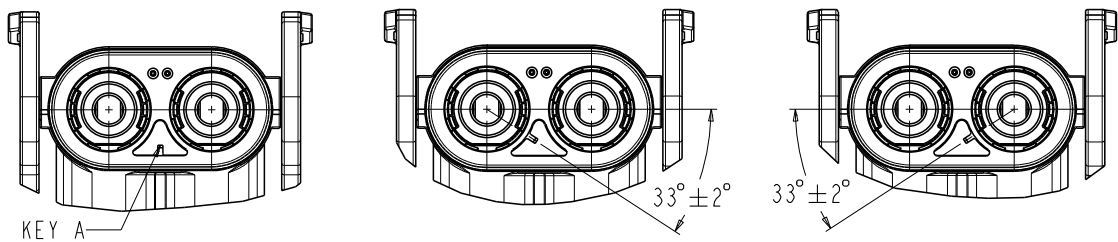
| | Coding A | Coding B | Coding C |
|-----|-----------------|-----------------|-----------------|
| P/N | HVSLS600 06 2 A | HVSLS600 06 2 B | HVSLS600 06 2 C |

Excel|Mate Metal (HVSL S 600)

2 PIN RIGHT ANGLE PLUG

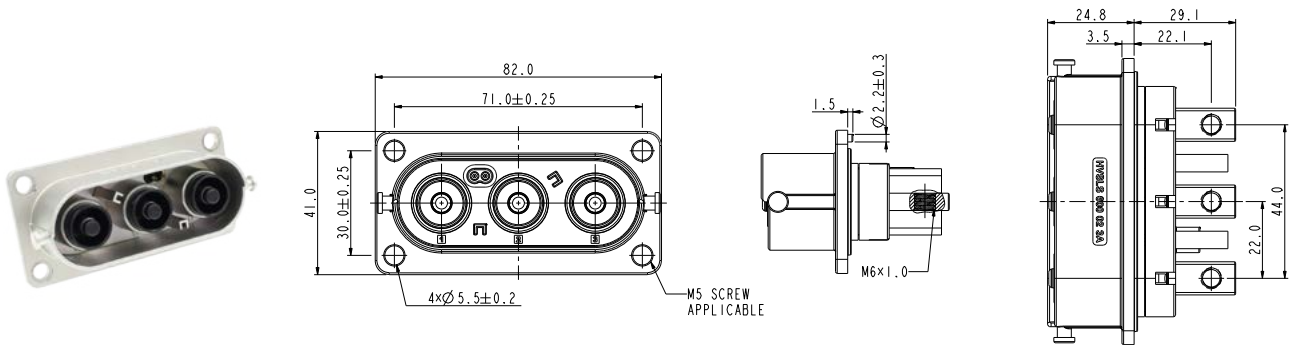


INSERT ORIENTATIONS

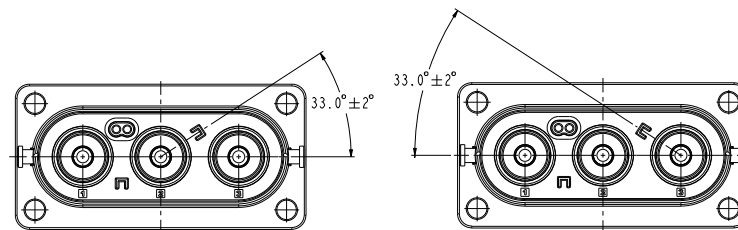


| | Coding A | Coding B | Coding C |
|-----|------------------|------------------|------------------|
| P/N | HVSL S600 08 2 A | HVSL S600 08 2 B | HVSL S600 08 2 C |

3 PIN RECEPTACLE

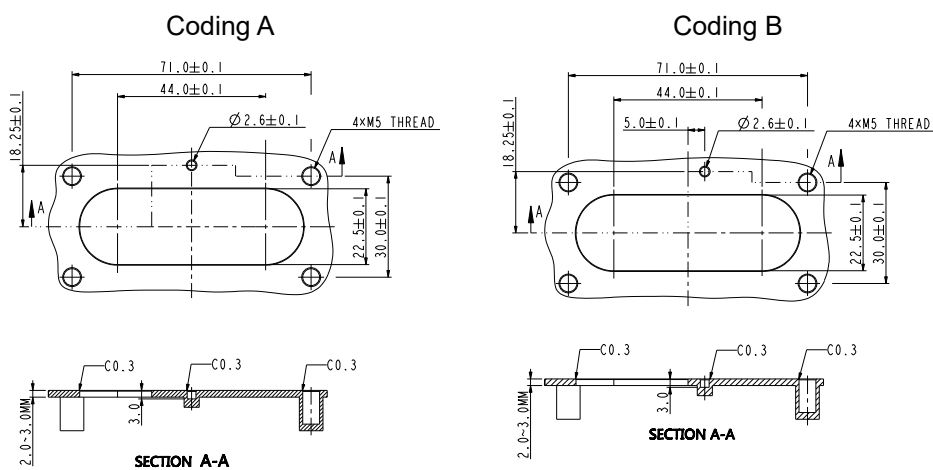


INSERT ORIENTATIONS

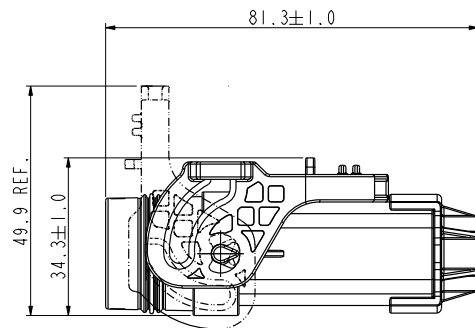
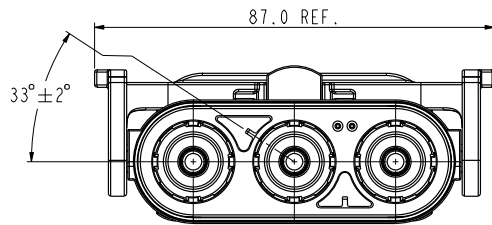


| | Coding A | Coding B |
|-----|----------------|----------------|
| P/N | HVSL600 02 3 A | HVSL600 02 3 B |

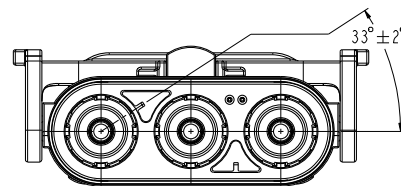
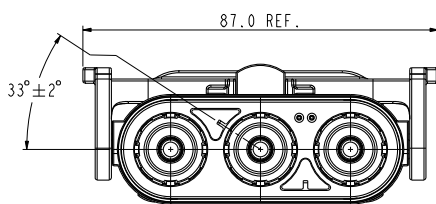
PANEL MOUNTING DIMENSIONS



3 PIN STRAIGHT PLUG

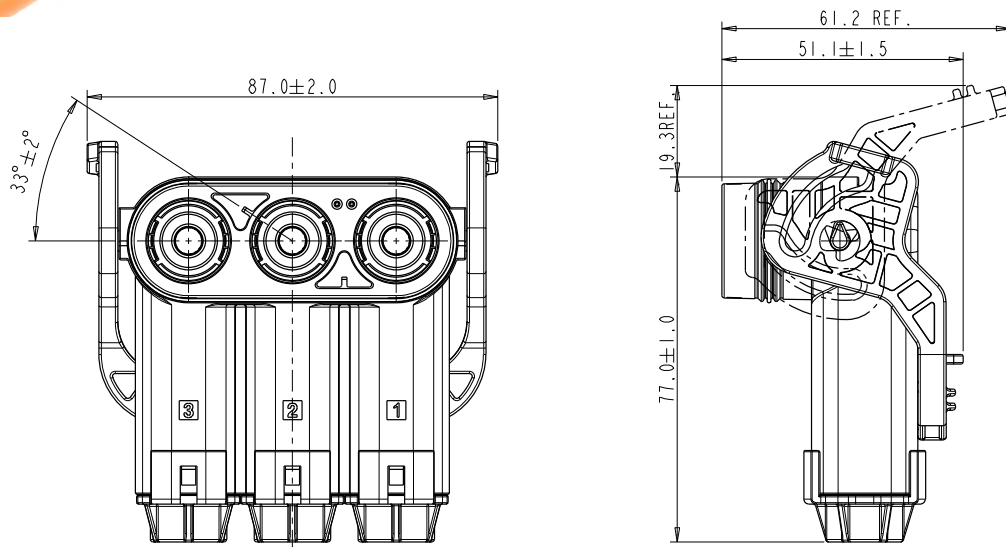


INSERT ORIENTATIONS

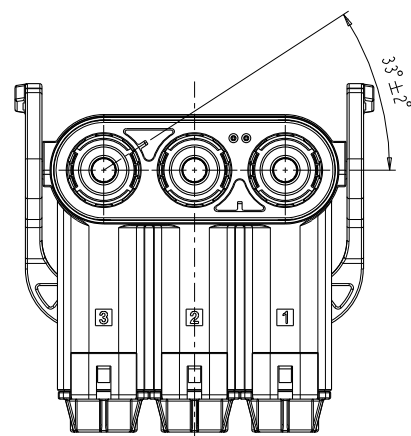
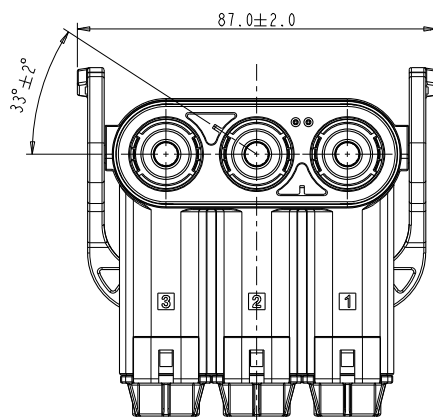


| | Coding A | Coding B |
|-----|------------------|------------------|
| P/N | HVSL S600 06 3 A | HVSL S600 06 3 B |

3 PIN RIGHT ANGLE PLUG

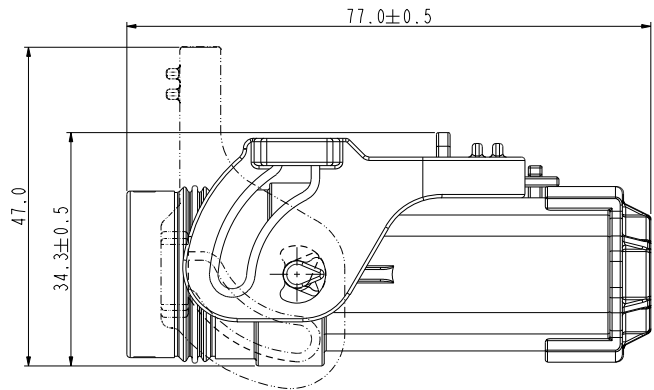
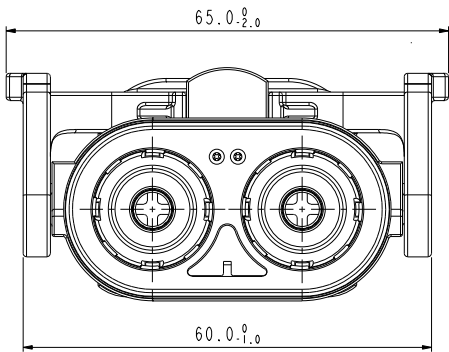


INSERT ORIENTATIONS



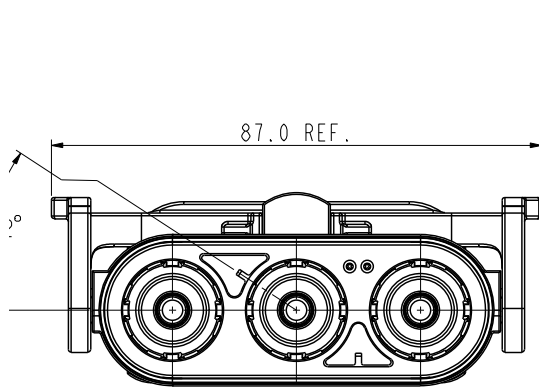
| | Coding A | Coding B |
|-----|------------------|------------------|
| P/N | HVSL S600 08 3 A | HVSL S600 08 3 B |

DUMMY PLUG - 2PIN

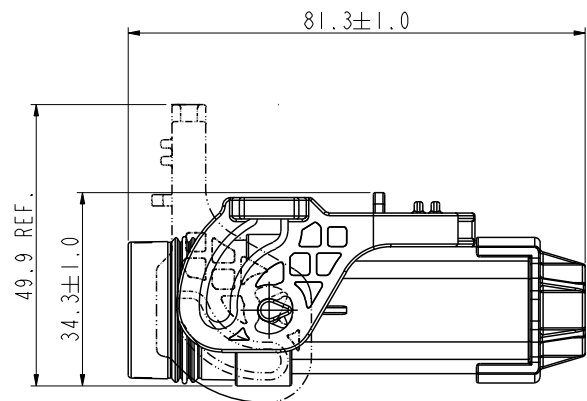


| | | | | | | |
|-------------------------------------|---|----|---|---|---|-----|
| | HVSL S600 | 06 | 2 | A | 0 | S03 |
| Product type: | 06: Straight plug | | | | | |
| Position: | 2: 2 position | | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B C: Coding C | | | | | |
| Interlock: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

DUMMY PLUG - 3PIN

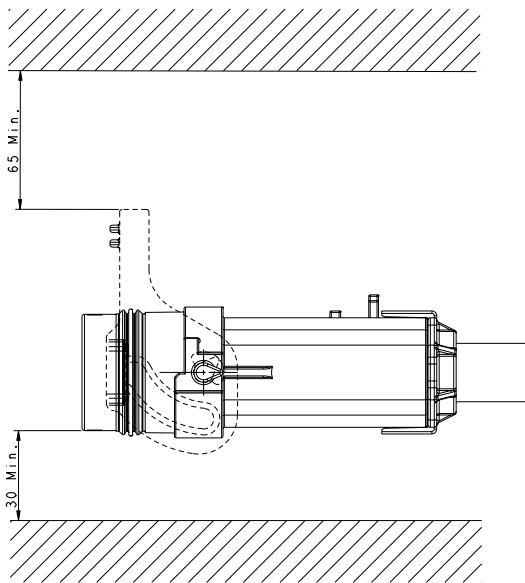


CODING A



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

INSTALLATION CLEARANCE



TOOL FOR RIGHT ANGLE PLUGS



Remark:

Customer needs to use fixture HVSLP033002 with Stanley torque wrench sleeve (purchased by the customer) for assembling the finish product HVSL5600082.

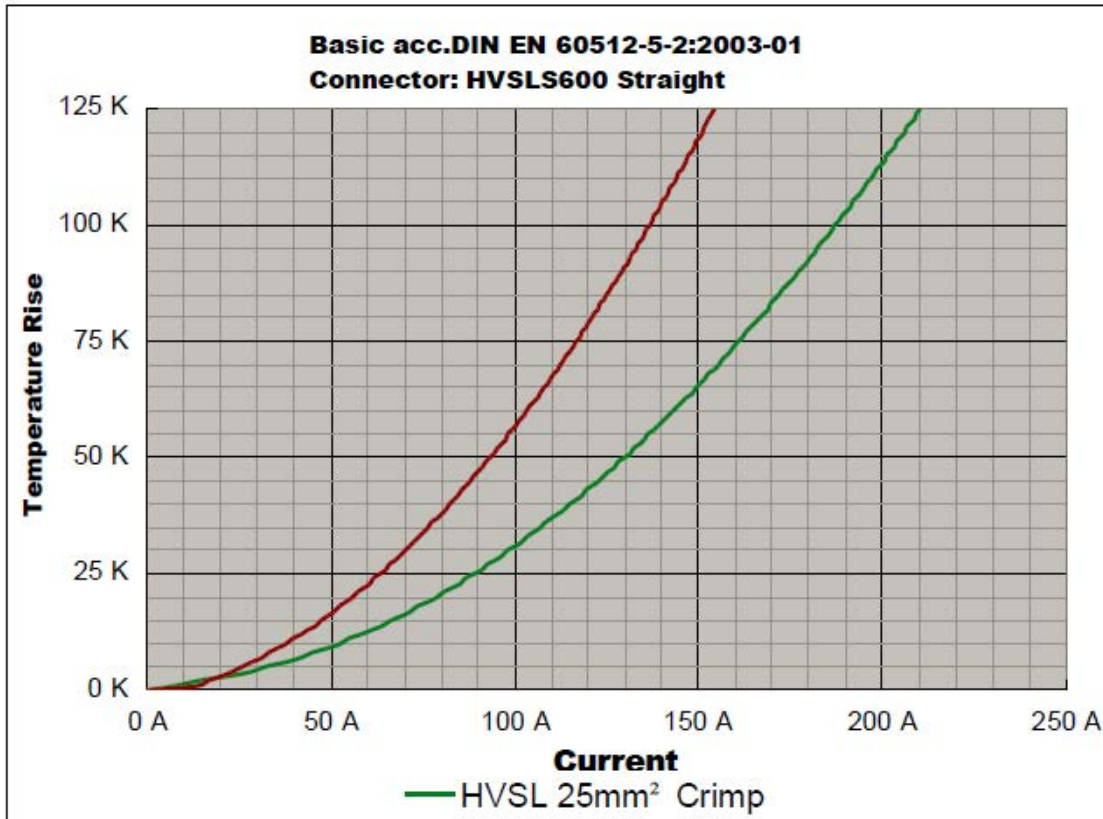
HOW TO ORDER: PLUG

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

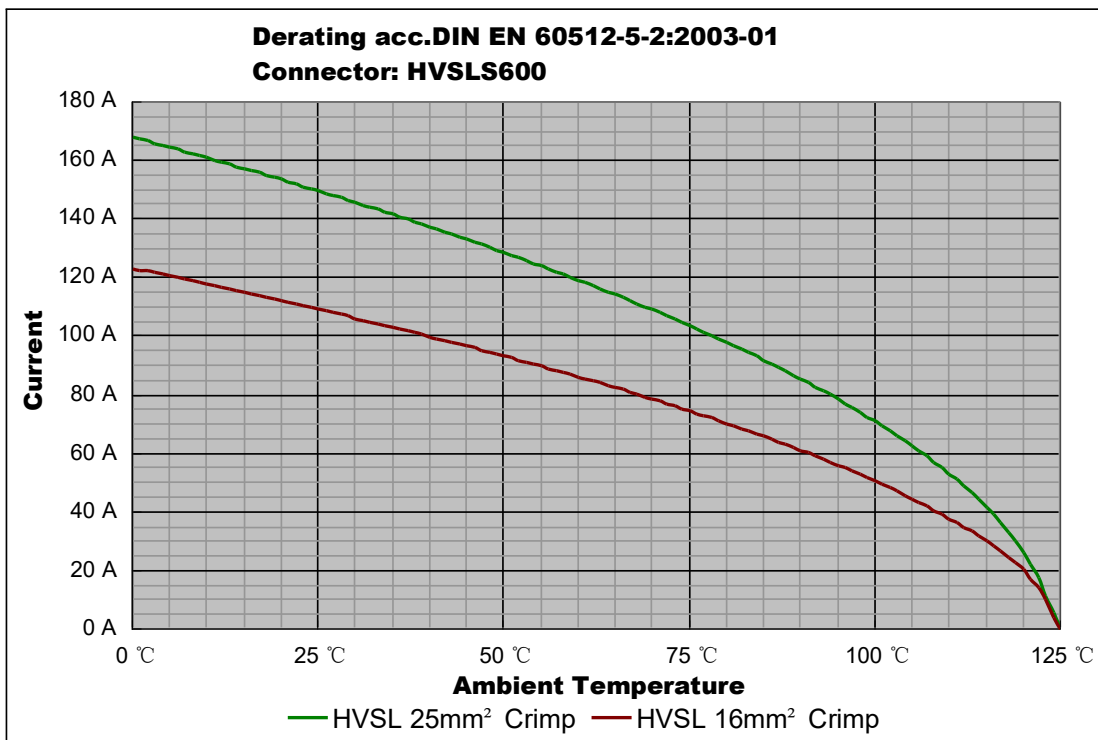
HOW TO ORDER: RECEPTACLE

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

HVSL 600 | Temperature Rise



HVSL 600 | Derating Curve



Remark: tests carried out on the complete connector.

EXCEL | MATE Metal (HVSL S 800)

EXCEL | MATE Metal (HVSL S 800)



EXCEL | MATE Metal

EXCEL | MATE Metal is a 2 pin connector with a current carrying capacity of 180A and 25 to 50mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

No tool required to unmate

Sealing, IP67 (mated), IP6K9K

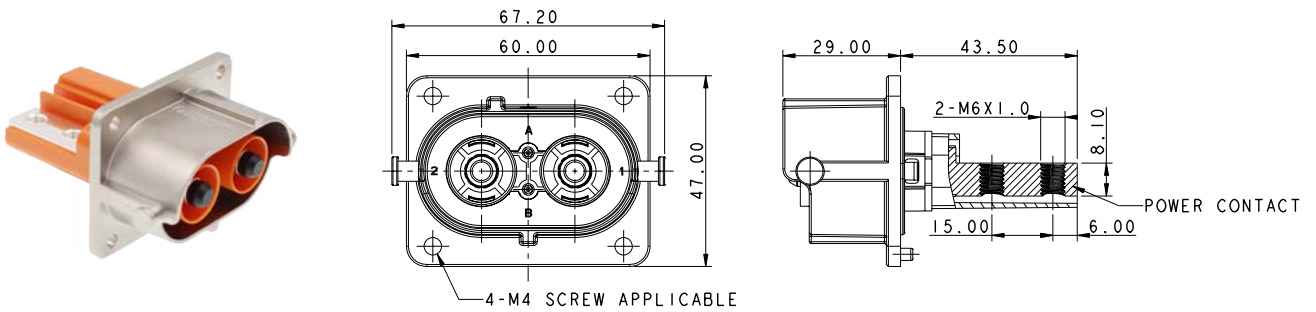
Touch-proof, IP2XB

Multiple coding positions

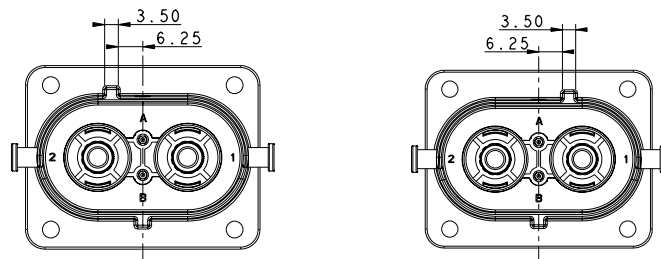
CPA available

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

RECEPTACLE

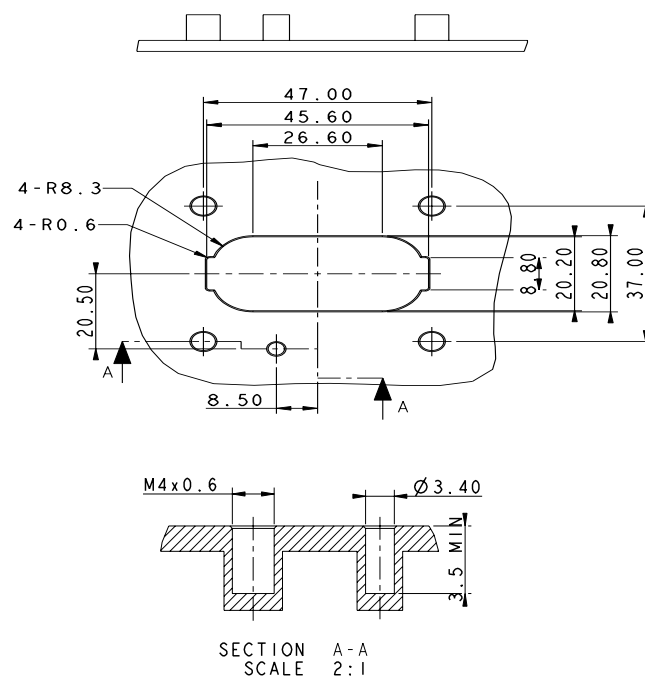


INSERT ORIENTATIONS



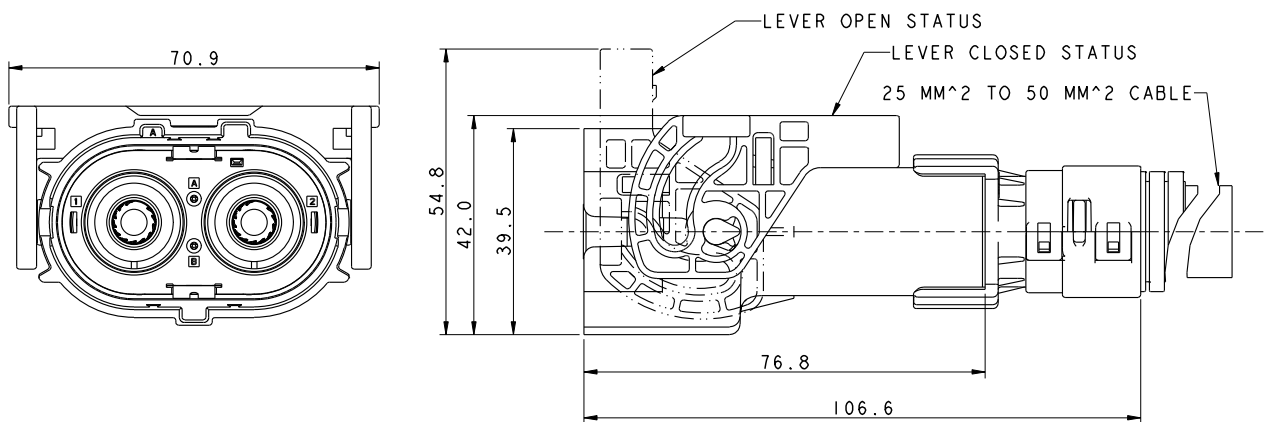
| | Coding A | Coding B |
|-----|----------------|----------------|
| P/N | HVSL800 02 2 A | HVSL800 02 2 B |

PANEL MOUNTED DIMENSIONS

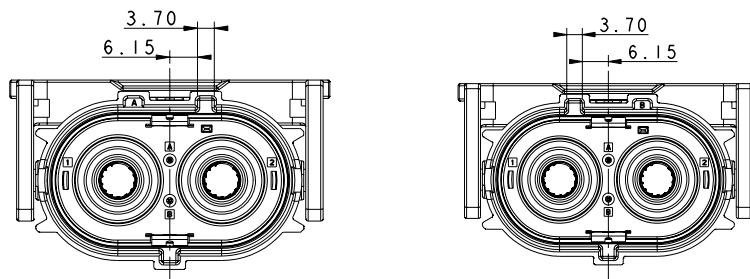


Excel|Mate Metal (HVSL S 800)

STRAIGHT PLUG



INSERT ORIENTATIONS

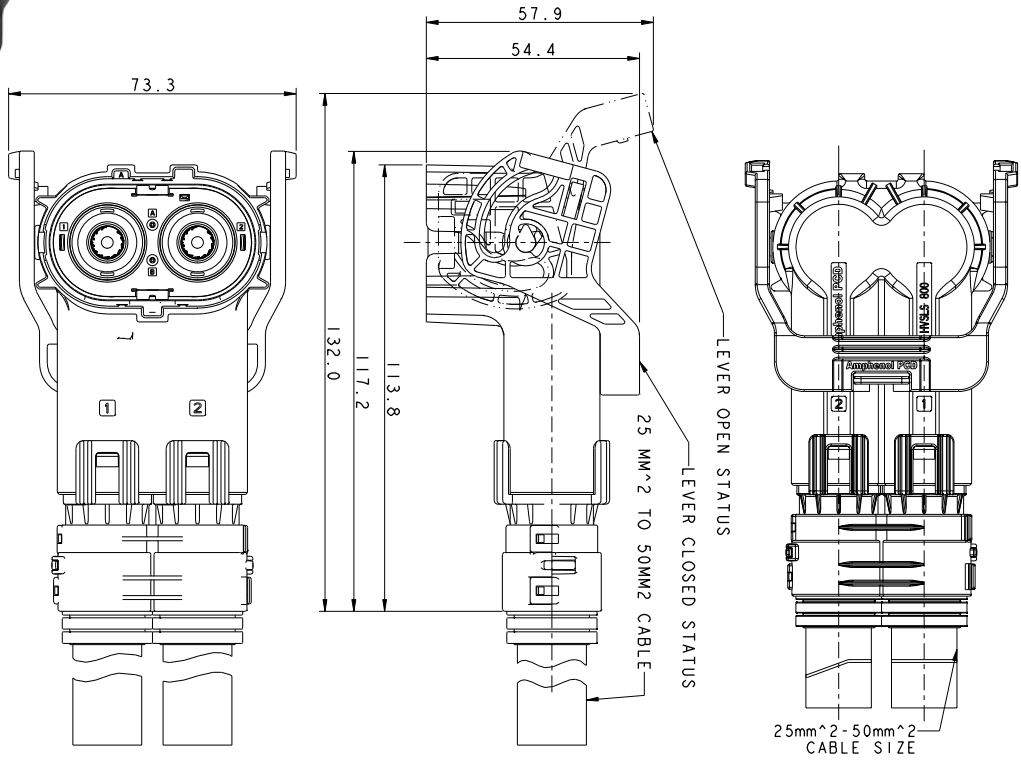


P/N

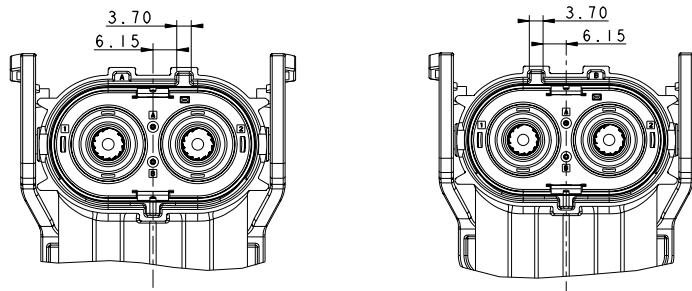
Coding A
HVSL S800 06 2 A

Coding B
HVSL S800 06 2 B

PLUG RIGHT ANGLE

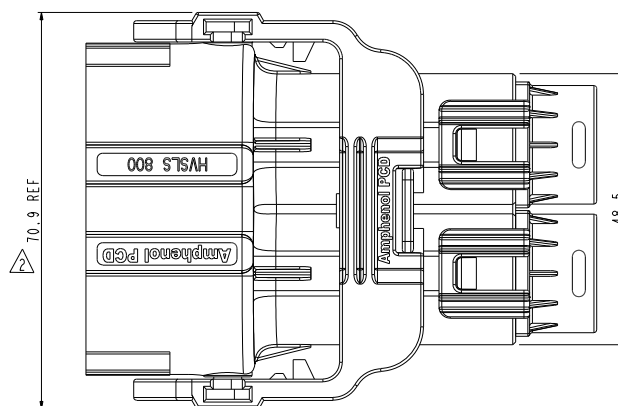
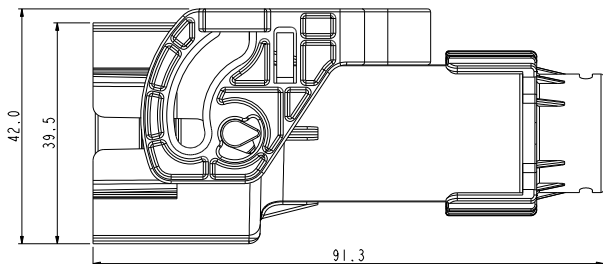


INSERT ORIENTATIONS



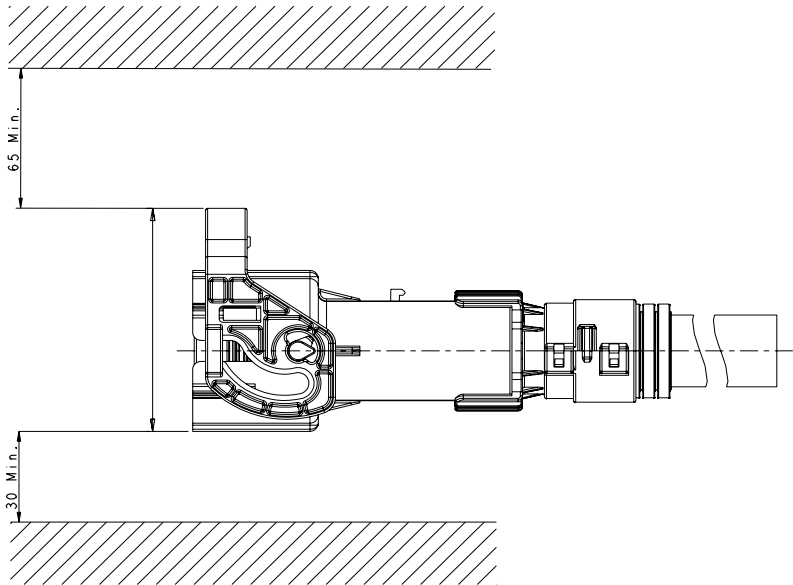
| | | |
|-----|----------------|----------------|
| | Coding A | Coding B |
| P/N | HVSL800 08 2 A | HVSL800 08 2 B |

DUMMY PLUG - 2PIN



| | | | | | |
|-------------------------------------|----------------------------|----|---|---|----|
| | HVSL S800 | 06 | 2 | A | S1 |
| Product type: | 06: Straight plug | | | | |
| Position: | 2: 2 position | | | | |
| Coding / Alternate position: | A: Coding A B: Coding B | | | | |
| Dummy plug: | S1 | | | | |

INSTALLATION CLEARANCE



HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

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

EXCEL | MATE Metal (HVSL 8003)

EXCEL | MATE Metal (HVSL 8003)



EXCEL | MATE Metal

EXCEL | MATE Metal is a 2 pin connector with a current carrying capacity of 180A and 25 to 50mm² crimping cable.

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

KEY FEATURES

Integrated internal HVIL

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

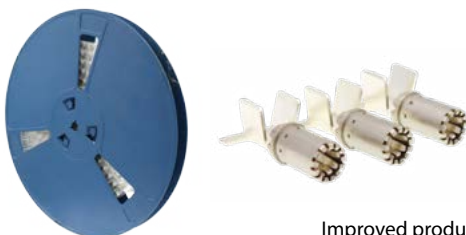
No tool required to unmate

Sealing, IP67 (mated), IP6K9K

Touch-proof, IP2XB

Multiple coding positions

CPA available



Improved production efficiency. Automated tape and reel packaging.

MECHANICAL

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

ELECTRICAL

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

ENVIRONMENTAL

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

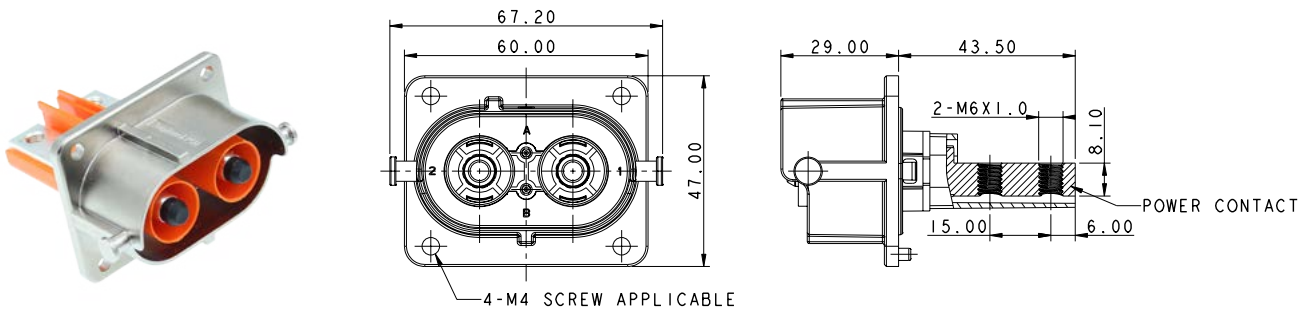
STANDARDS

| | |
|----------|--|
| USCAR-2 | |
| USCAR-37 | |
| LV-215 | |
| RoHS | |

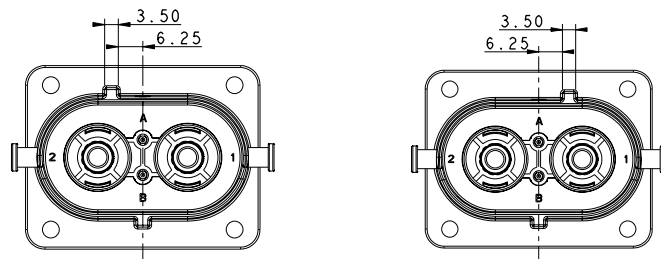
MATERIAL

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

RECEPTACLE

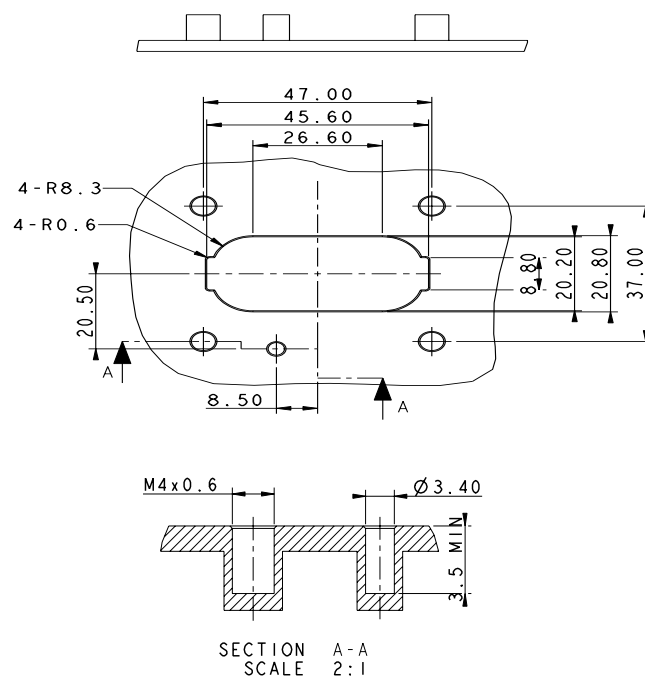


INSERT ORIENTATIONS



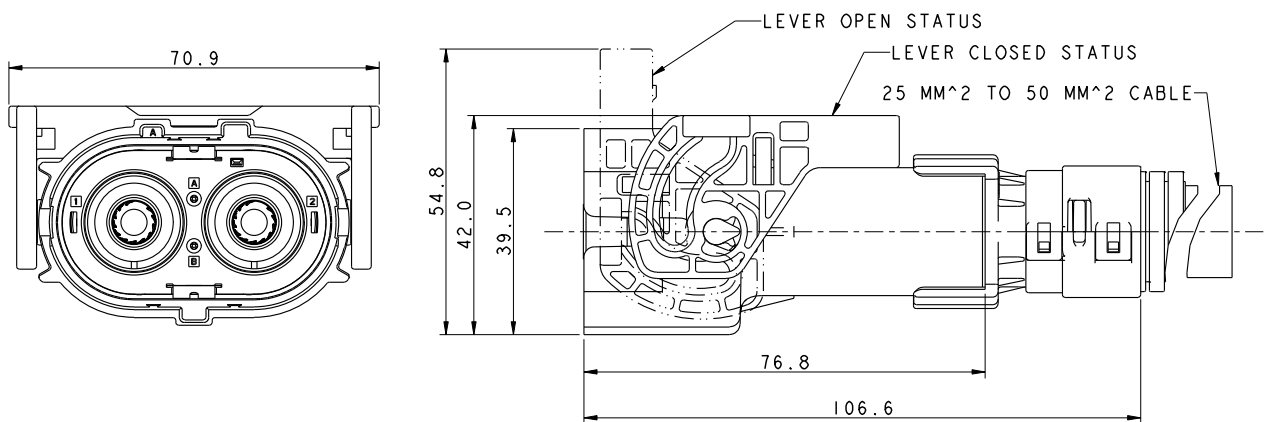
| | Coding A | Coding B |
|-----|----------------|----------------|
| P/N | HVSL8003 2 2 A | HVSL8003 2 2 B |

PANEL MOUNTED DIMENSIONS

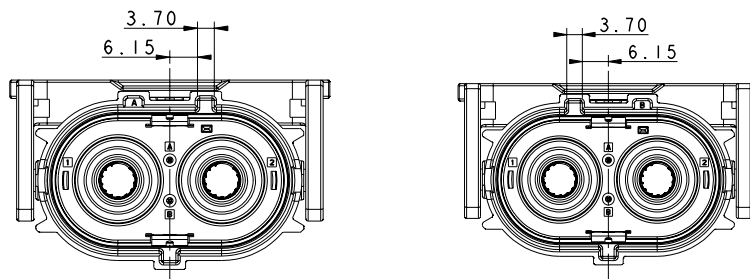


Excel|Mate Metal (HVSL 8003)

STRAIGHT PLUG



INSERT ORIENTATIONS

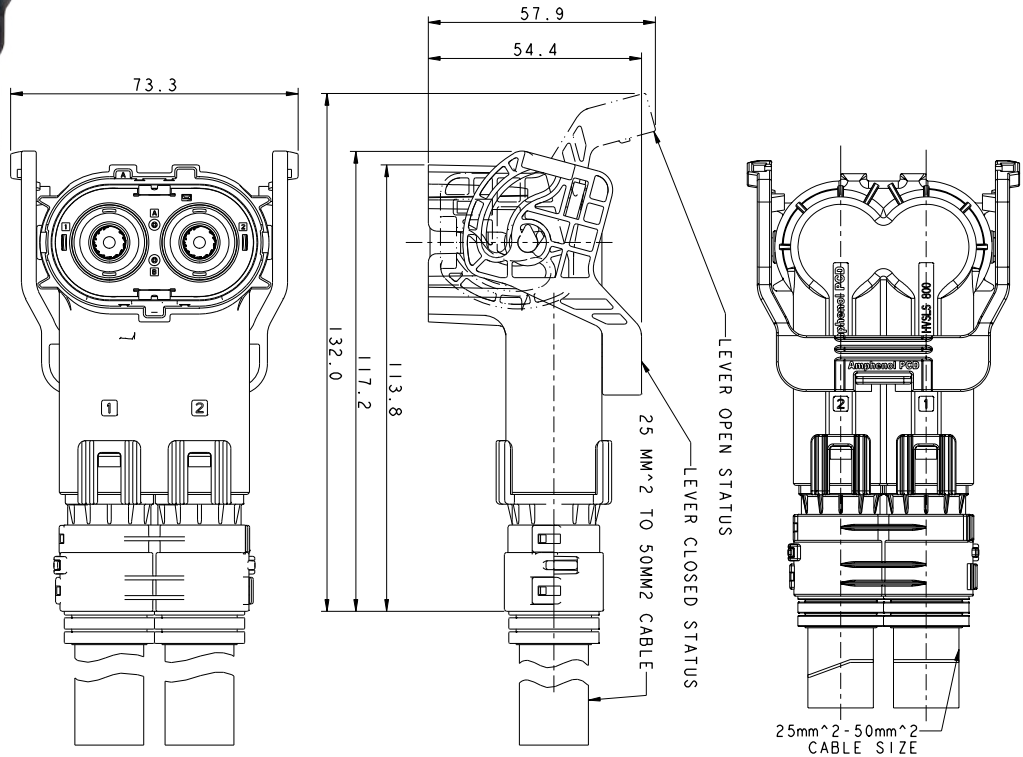


P/N

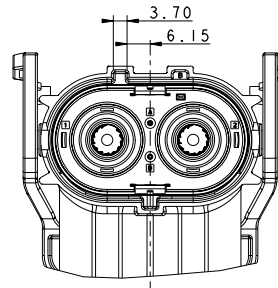
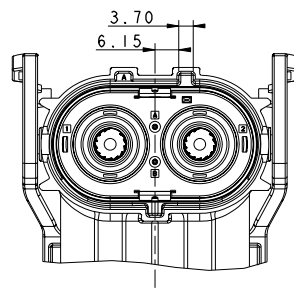
Coding A
HVSL8003 6 2 A

Coding B
HVSL8003 6 2 B

RIGHT ANGLE PLUG

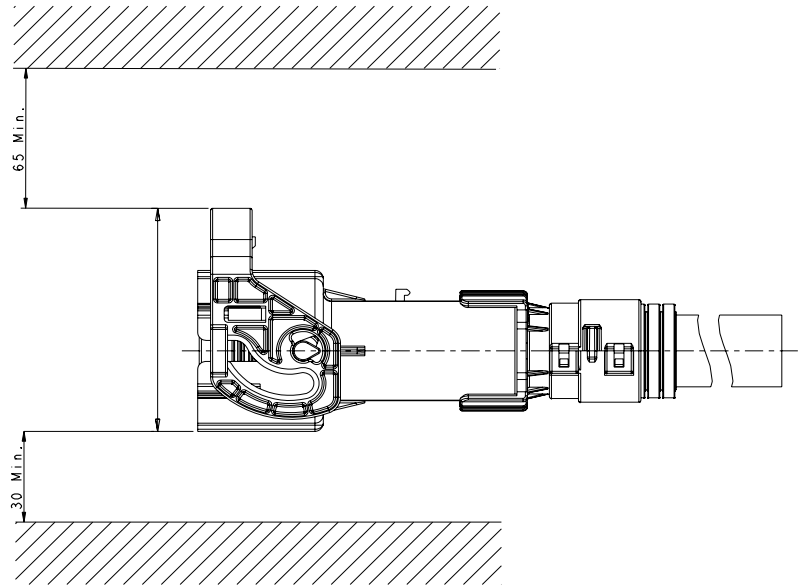


INSERT ORIENTATIONS



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

INSTALLATION CLEARANCE



HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

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

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



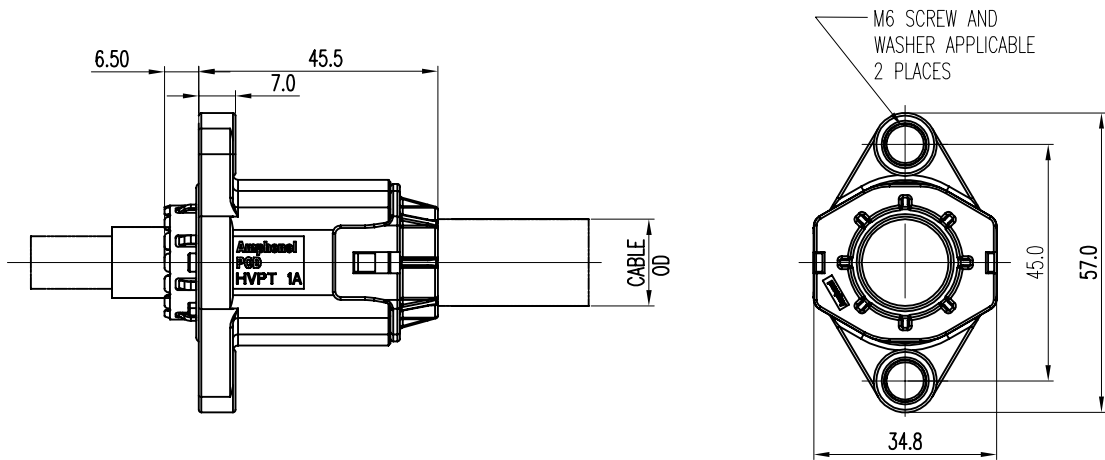
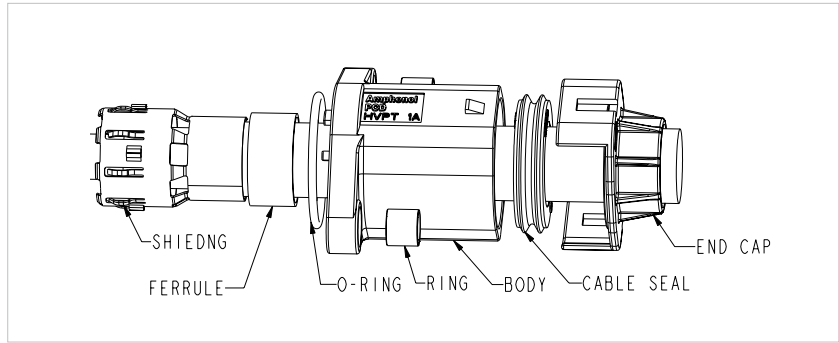
KEY FEATURES

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

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

Excel|Mate PT (HVPT)

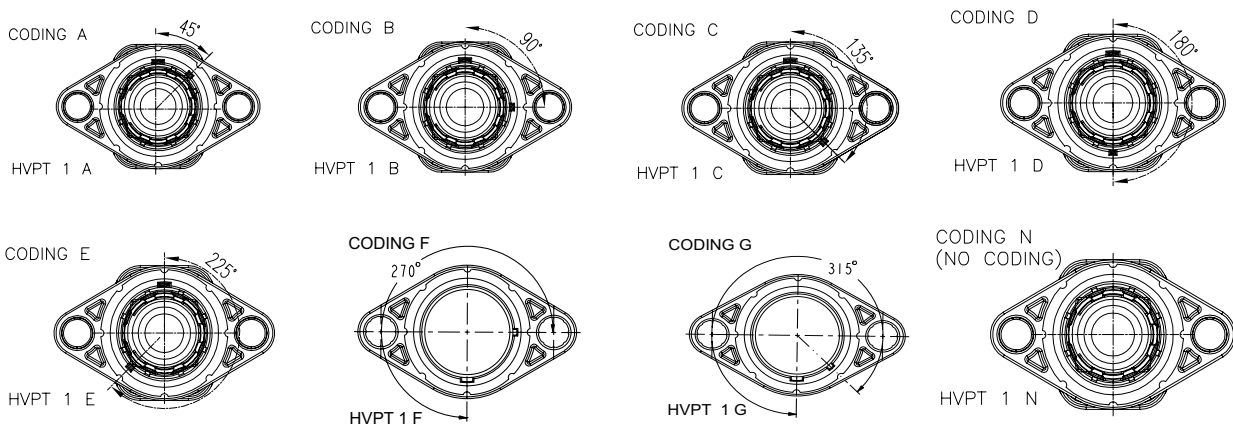
1 POSITION PASS-THROUGH



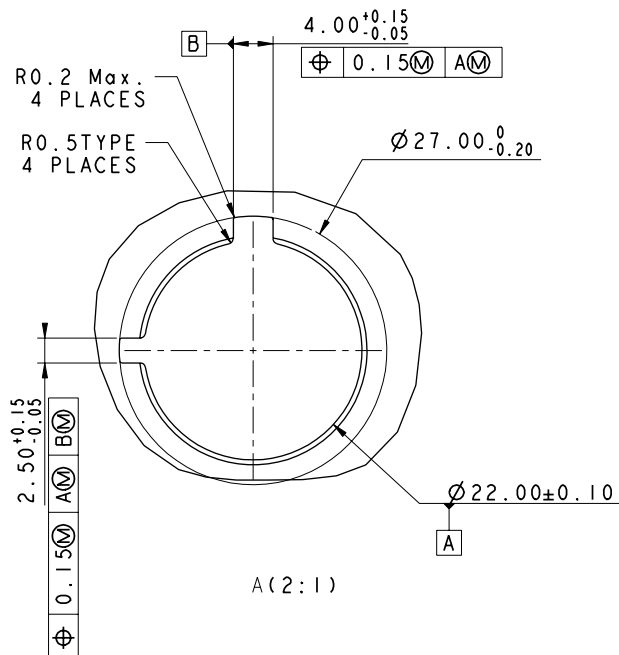
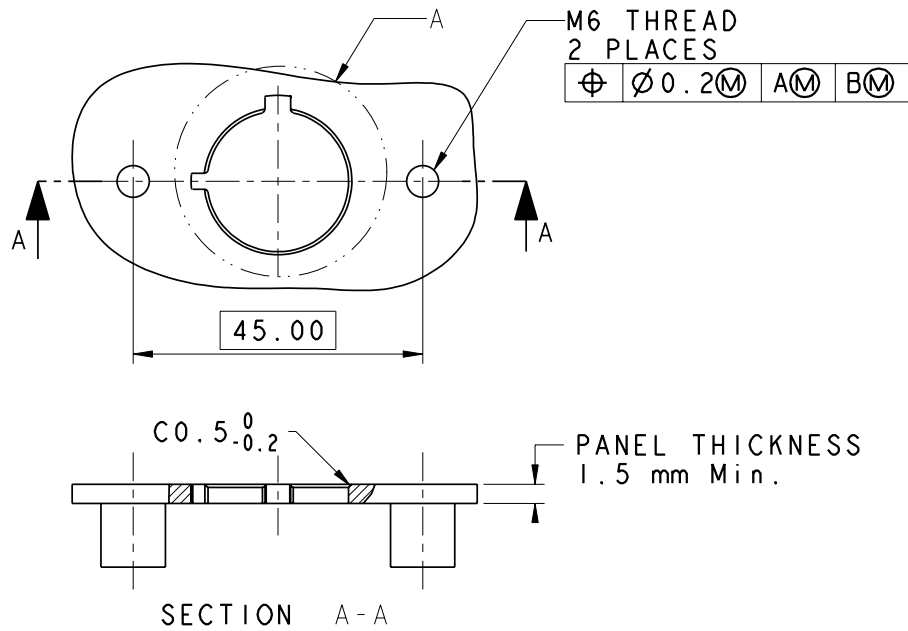
CONTACTS

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

INSERT ORIENTATIONS

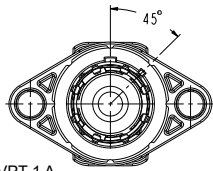


PANEL MOUNTING DIMENSIONS



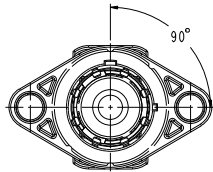
PANEL MOUNTING DIMENSIONS

CODING A



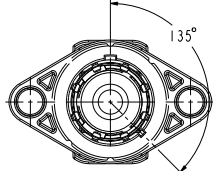
HVPT 1 A

CODING B



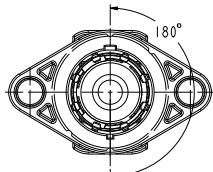
HVPT 1 B

CODING C



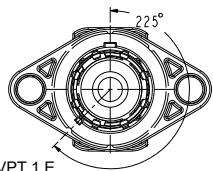
HVPT 1 C

CODING D



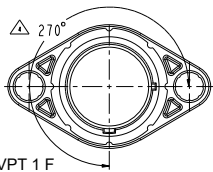
HVPT 1 D

CODING E



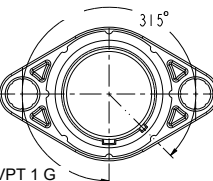
HVPT 1 E

CODING F



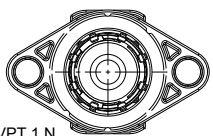
HVPT 1 F

CODING G



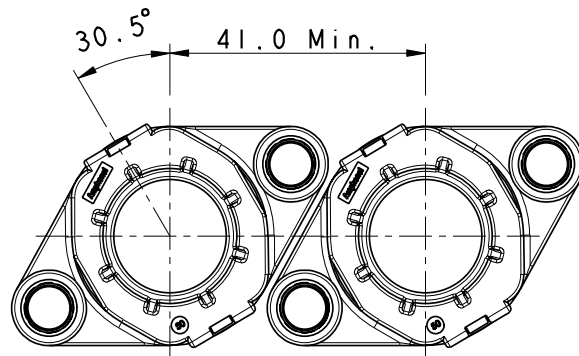
HVPT 1 G

NO CODING (N)

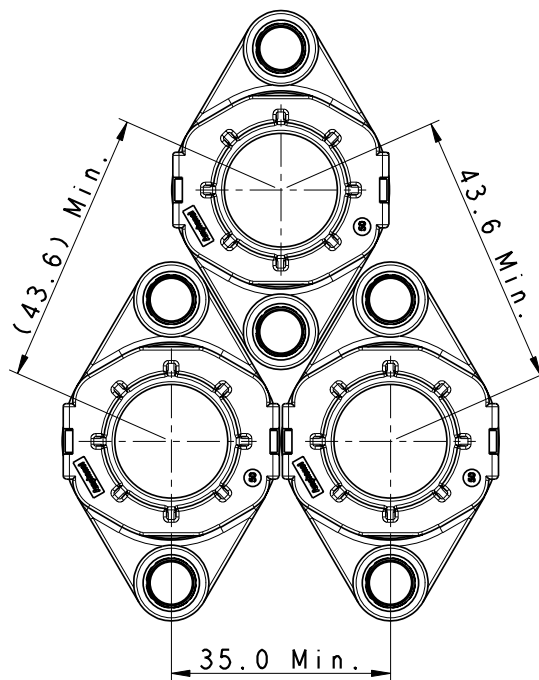


HVPT 1 N

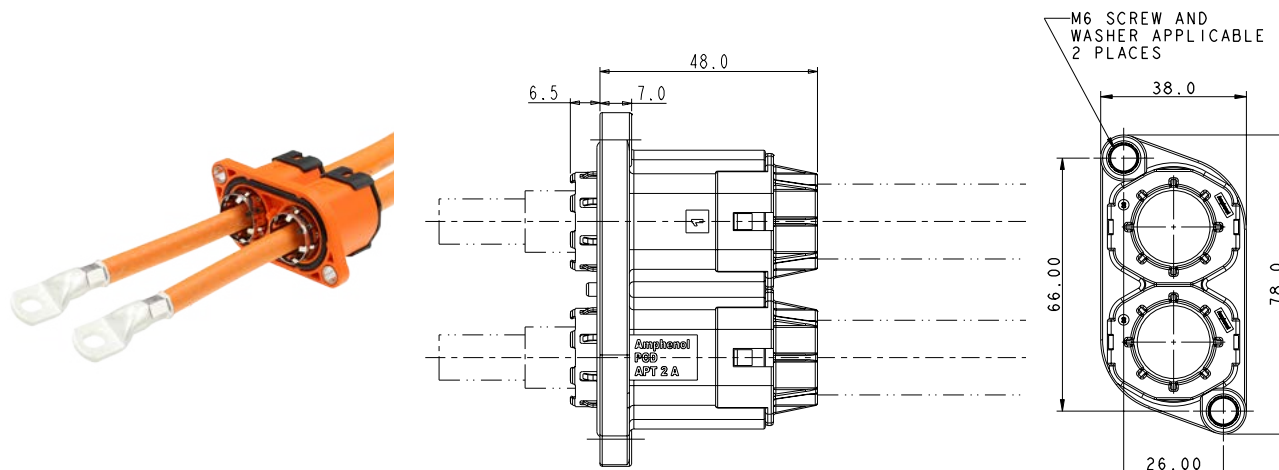
RECOMMENDED LAYOUT FOR 2 UNITS



RECOMMENDED LAYOUT FOR 3 UNITS



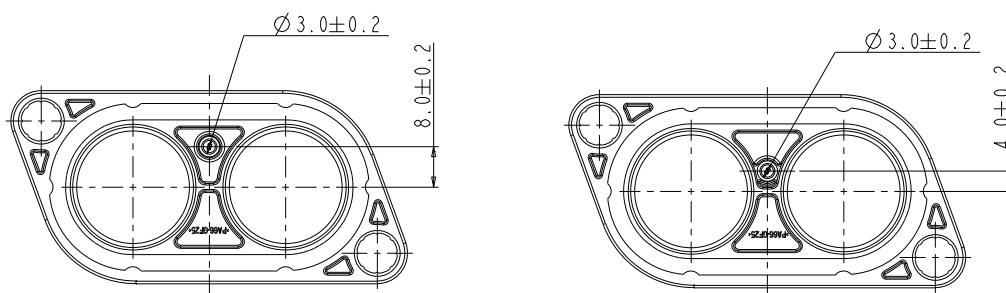
2 POSITION PASS-THROUGH



CONTACTS

| Part number | Conductor cross section (mm ²) | Cable OD |
|-------------|--|----------|
| HVPT 2 X 70 | 70 | 19.0±0.4 |
| HVPT 2 X 50 | 50 | 16.5±0.4 |
| HVPT 2 X 35 | 35 | 14.2±0.4 |
| HVPT 2 X 25 | 25 | 11.9±0.4 |

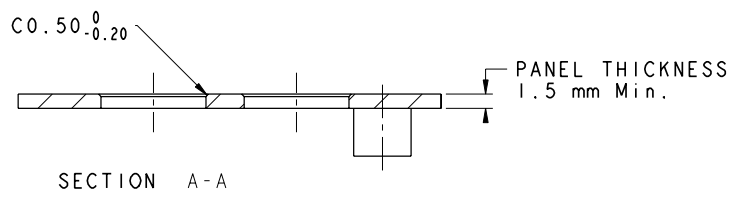
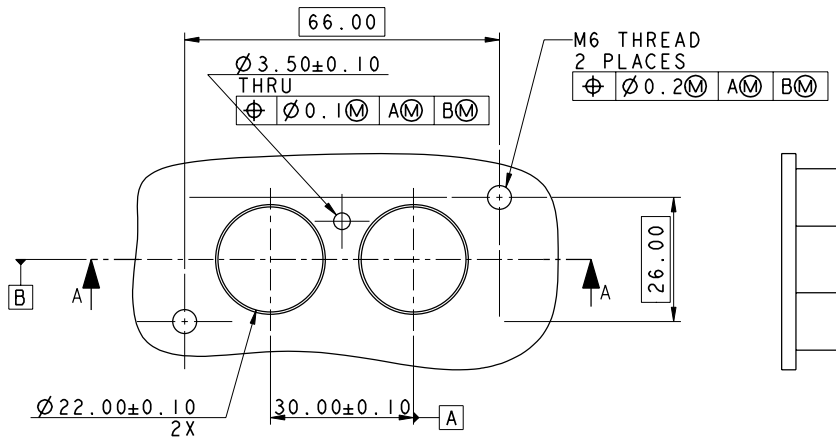
INSERT ORIENTATIONS



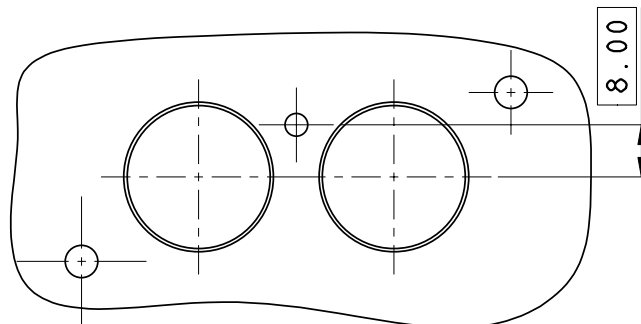
HVPT 2 A

HVPT 2 B

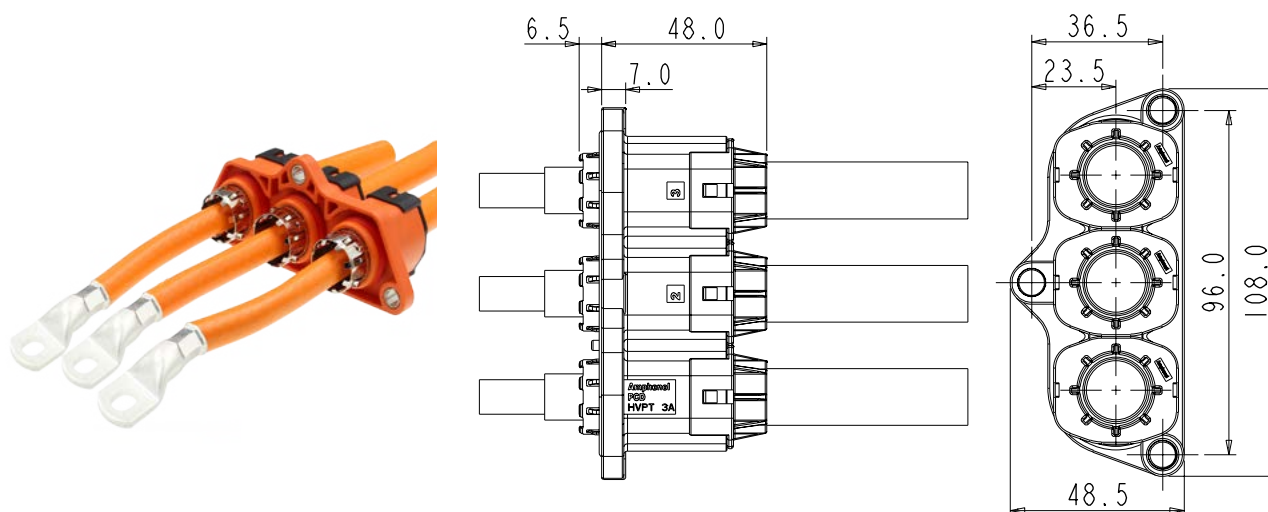
PANEL MOUNTING DIMENSION



CODING A



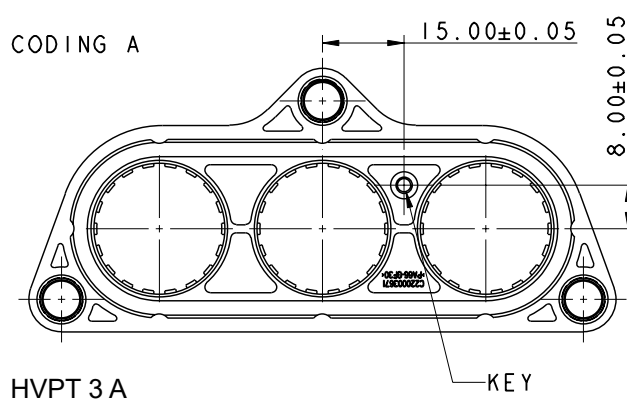
3 POSITION PASS-THROUGH



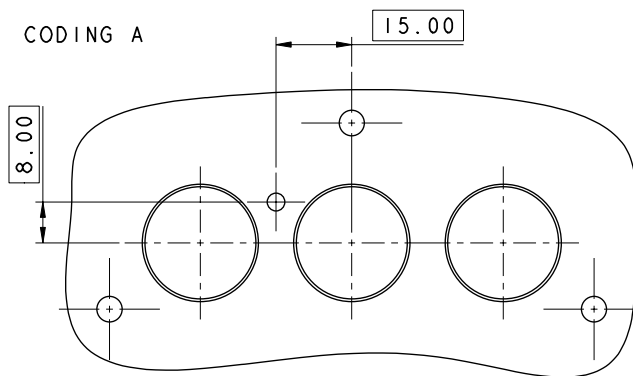
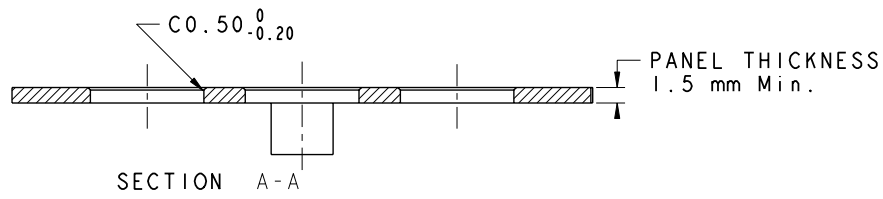
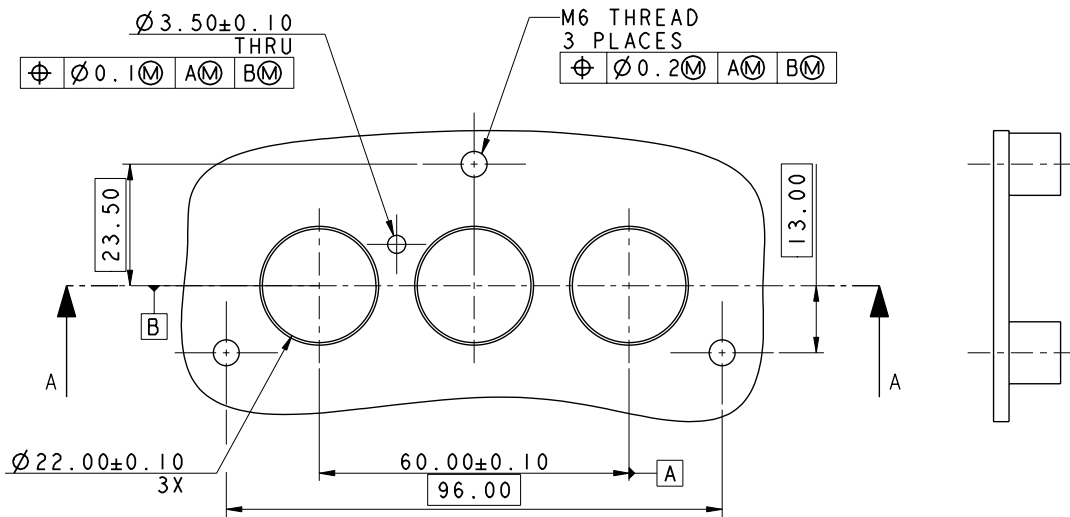
CONTACTS

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

INSERT ORIENTATIONS



PANEL MOUNTING DIMENSIONS



HVPT B PASS-THROUGH

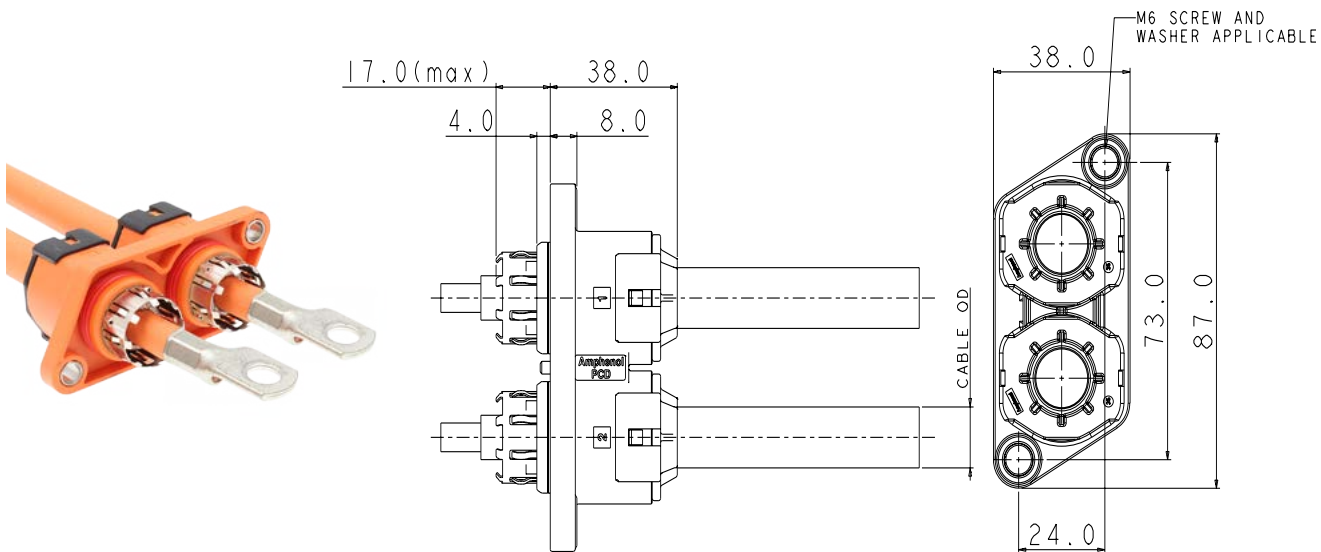


KEY FEATURES

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

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

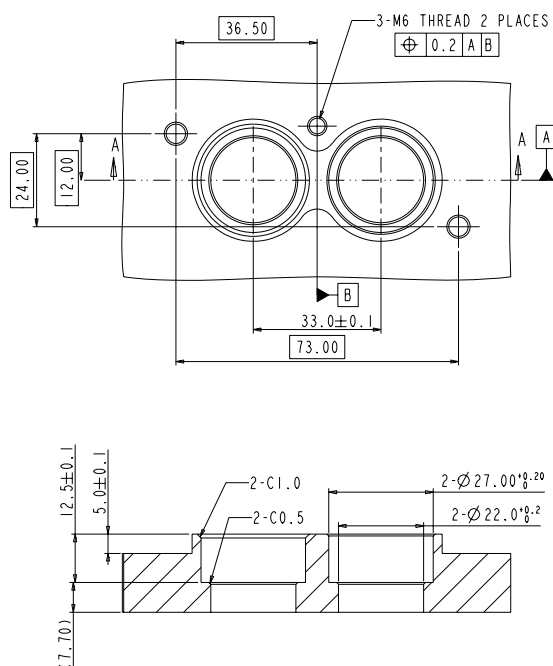
HVPTB 2 POSITION PASS-THROUGH



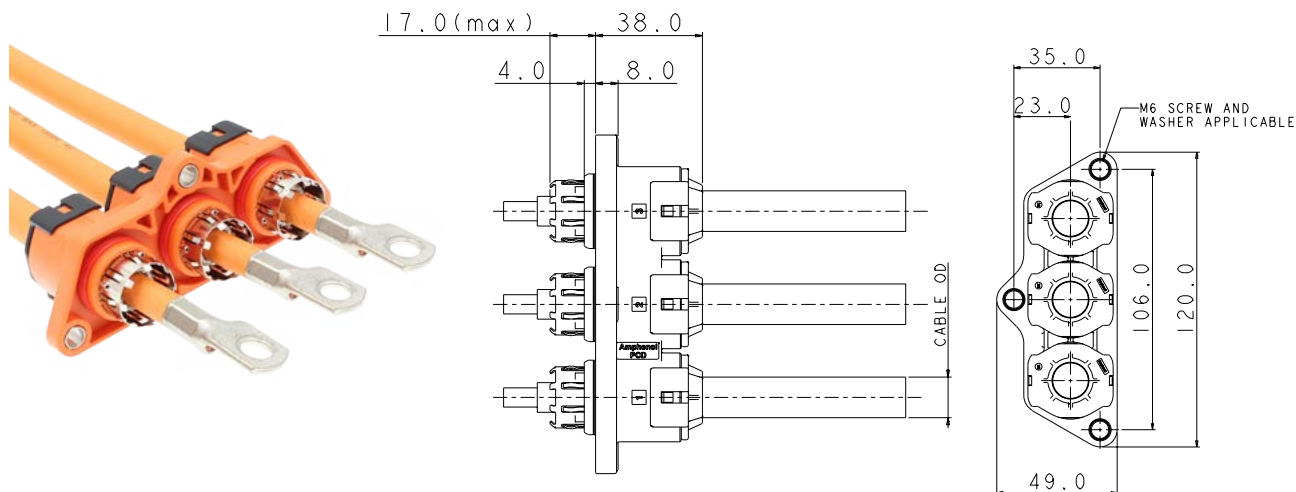
PART NUMBER

| Part number | Conductor cross section (mm ²) | Cable OD |
|--------------|--|----------|
| HVPTB 2 B 70 | 70 | 19.0±0.4 |
| HVPTB 2 B 50 | 50 | 16.5±0.4 |
| HVPTB 2 B 35 | 35 | 14.2±0.4 |
| HVPTB 2 B 25 | 25 | 11.9±0.4 |

PANEL MOUNTING DIMENSIONS



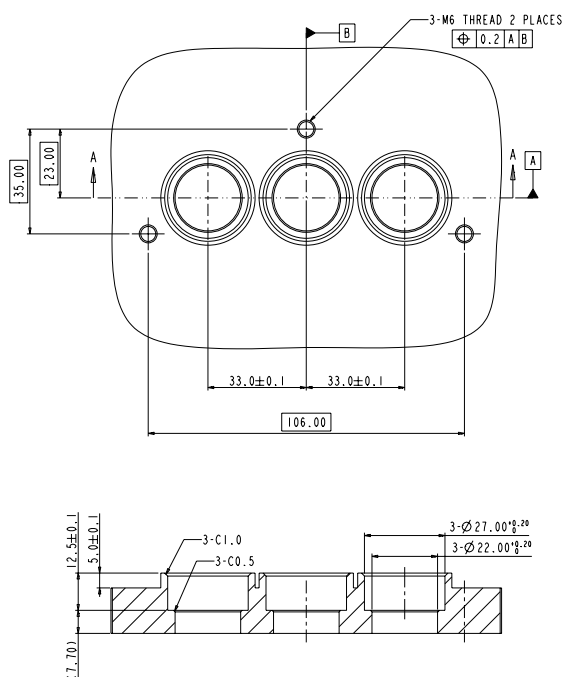
HVPTB 3 POSITION PASS-THROUGH



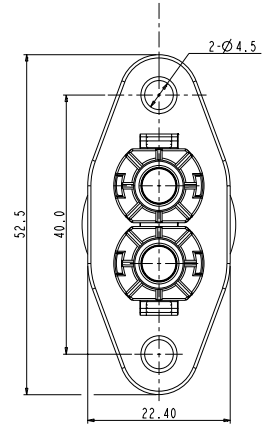
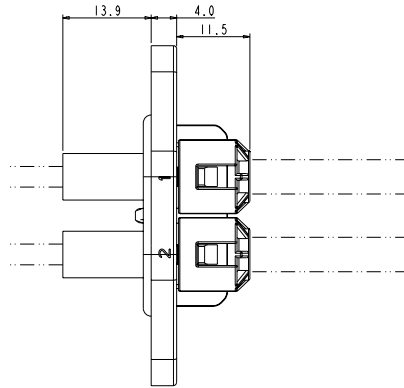
PART NUMBER

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

PANEL MOUNTING DIMENSIONS



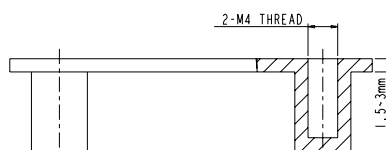
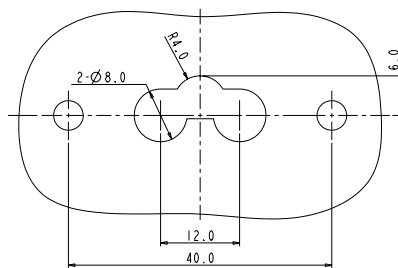
HVPTB 2A POSITION PASS-THROUGH



PART NUMBER

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

PANEL MOUNTING DIMENSIONS



HVPC PASS-THROUGH



KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

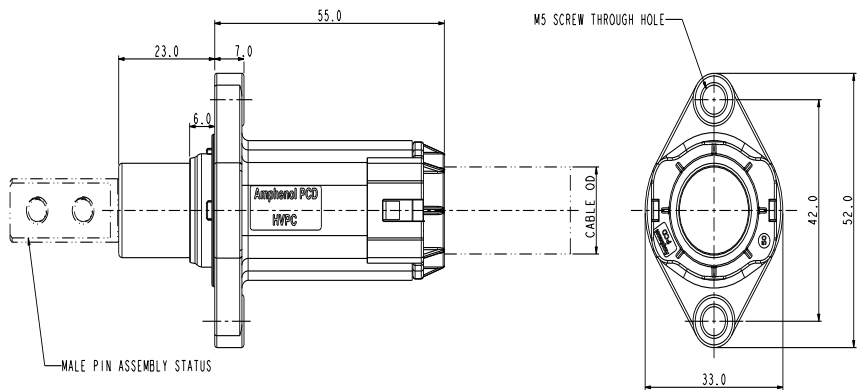
Multiple coding positions

360° shielded from wire to device

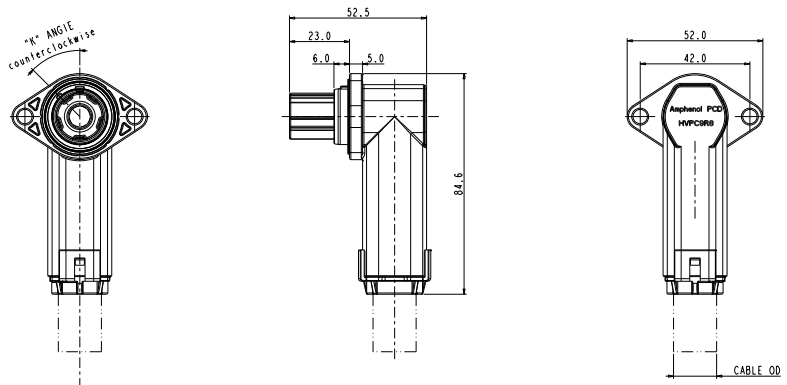
Economical

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

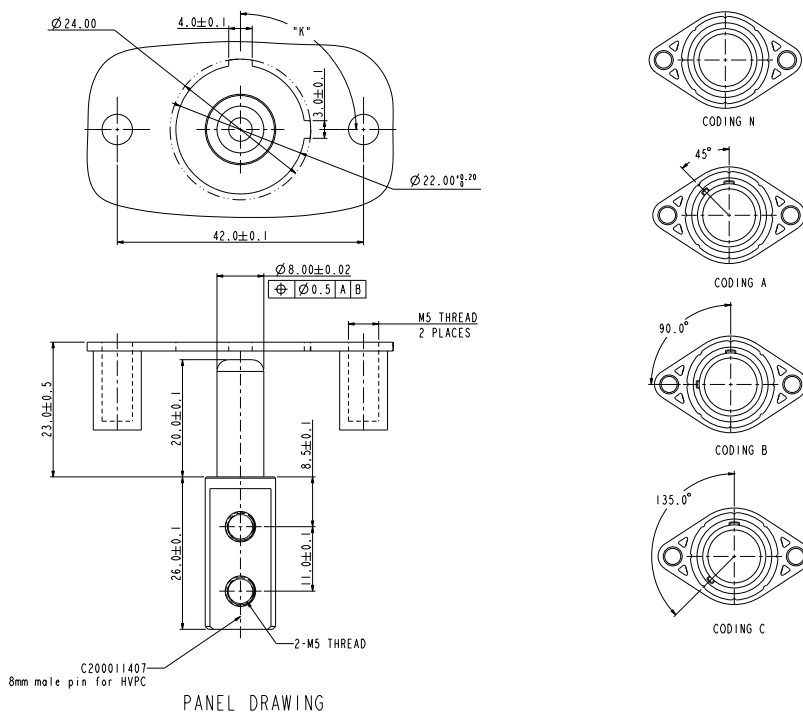
HVPC 1 POSITION PASS-THROUGH



HVPC 1 POSITION RIGHT-ANGLE



PANEL MOUNTING DIMENSIONS



HOW TO ORDER

| | HVPC | 7 | R8 | 1 | A | 35 |
|--|------|---|----|---|---|----|
| Product type: | | | | | | |
| 7: Straight | | | | | | |
| 9: Right angle | | | | | | |
| Insert size: | | | | | | |
| R8: 8mm pin contact | | | | | | |
| Position: | | | | | | |
| 1: 1 position | | | | | | |
| Coding: | | | | | | |
| 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) | | | | | | |
| Wire type: | | | | | | |
| 35: 35mm ² shielded wire | | | | | | |
| 50: 50mm ² shielded wire | | | | | | |

Excel|Mate PT (HVPT M)

HVPT M



KEY FEATURES

Easy to install, reliable connection

Sealing, IP67, IP6K9K (mated)

Multiple coding positions

360° shielded from wire to device

Economical

MECHANICAL

| | |
|------------|---|
| Wire range | 70 to 150 mm ² shielded wire |
|------------|---|

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

ELECTRICAL

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

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

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

ENVIRONMENTAL

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

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

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

STANDARDS

| | |
|---------|--|
| USCAR-2 | |
|---------|--|

| | |
|----------|--|
| USCAR-37 | |
|----------|--|

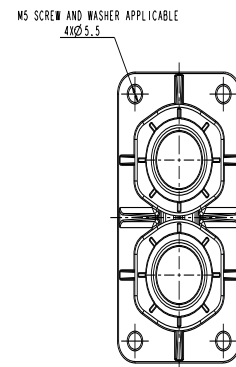
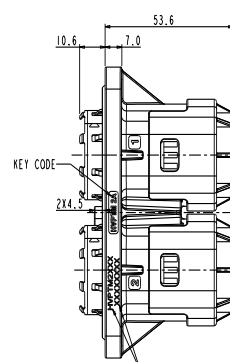
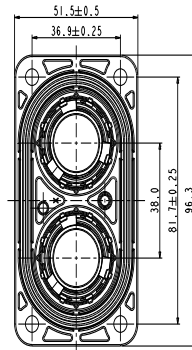
| | |
|----------|--|
| LV-216-2 | |
|----------|--|

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

MATERIAL

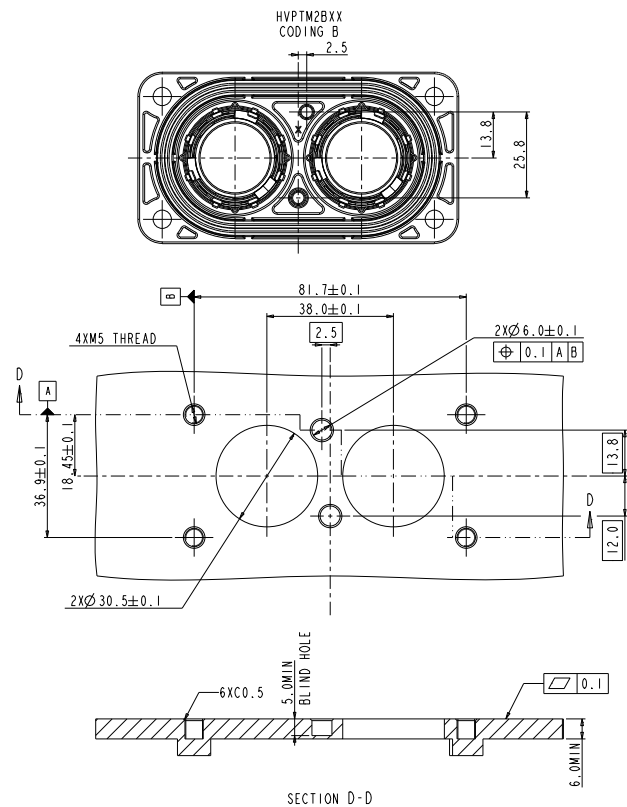
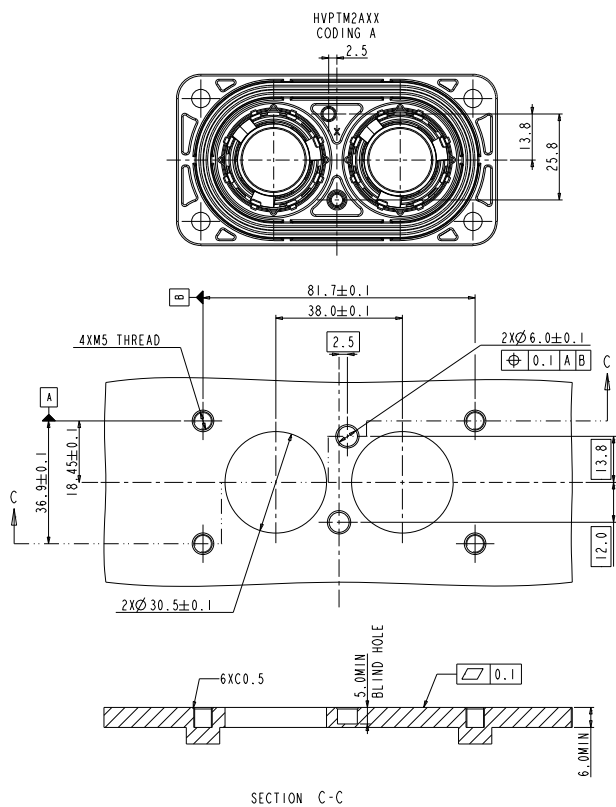
| | |
|---------|-------|
| Housing | Metal |
|---------|-------|

HVPT M 2-PIN

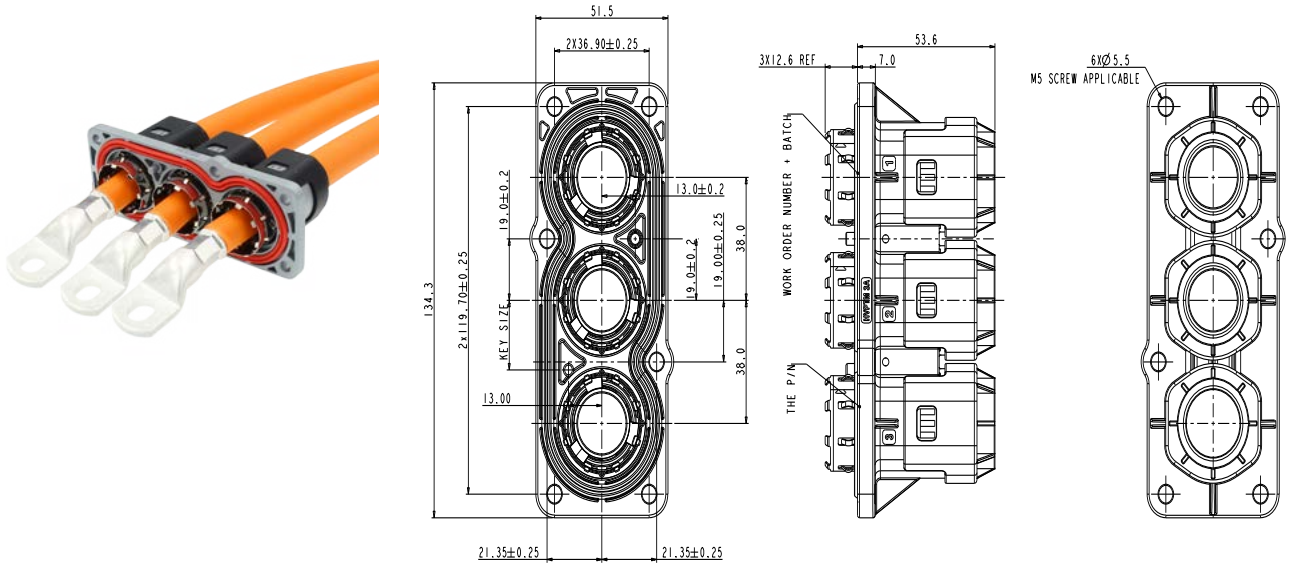


PRINTING CONTENT:
THE FIRST ROW IS P/N (PRINT THE FULL CODE)
THE SECOND ROW IS WORK ORDER NUMBER + BATCH

PANEL MOUNTING DIMENSION

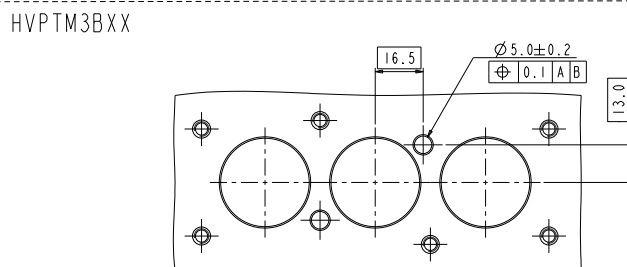
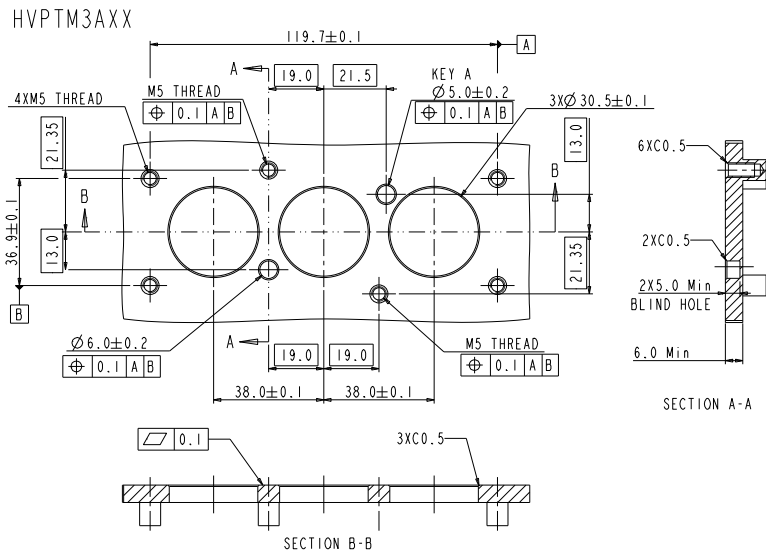


HVPT M 3-PIN



PANEL MOUNTING DIMENSION

MOUNTING PANEL RECOMMENDATION



HOW TO ORDER: PLUG

| | | | | |
|-------------------|----------------------------------|---|---|----|
| | HVPT M | 2 | A | 01 |
| Position: | | | | |
| 2: | 2 positions | | | |
| 3: | 3 positions | | | |
| Coding: | | | | |
| A: | Coding A | | | |
| B: | Coding B | | | |
| Wire type: | | | | |
| 01: | 95mm ² shielded wire | | | |
| 02: | 120mm ² shielded wire | | | |
| 03: | 70mm ² shielded wire | | | |
| 04: | 150mm ² shielded wire | | | |

Excel|Mate PT (HVPT BM)

HVPT BM



KEY FEATURES

Easy to install, reliable connection

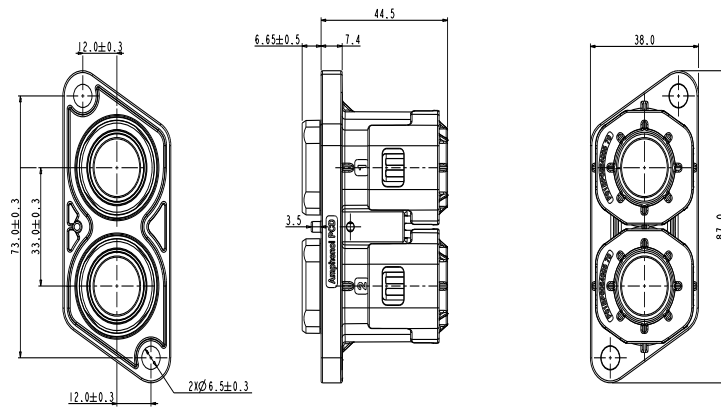
Sealing, IP67, IP6K9K (mated)
Multiple coding positions

360° shielded from wire to device

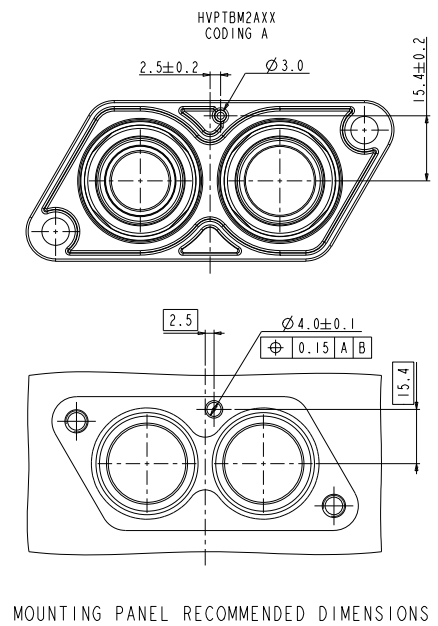
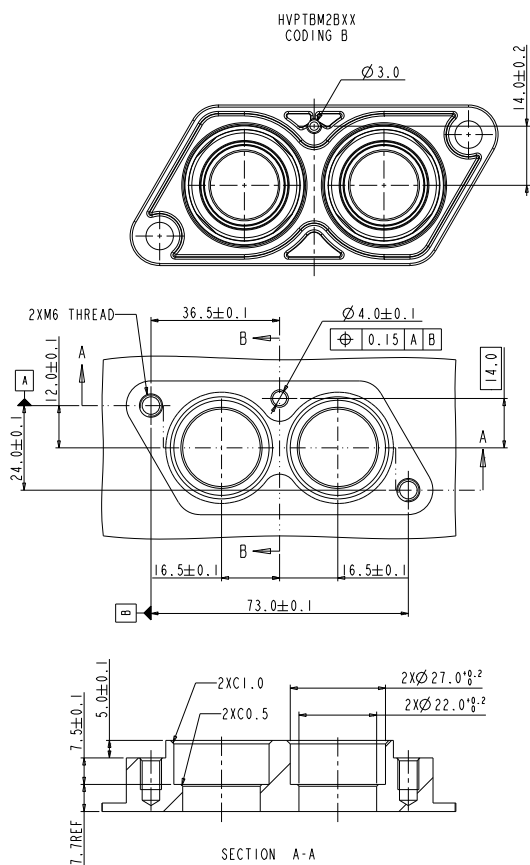
Economical

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

HVPT M 2-PIN



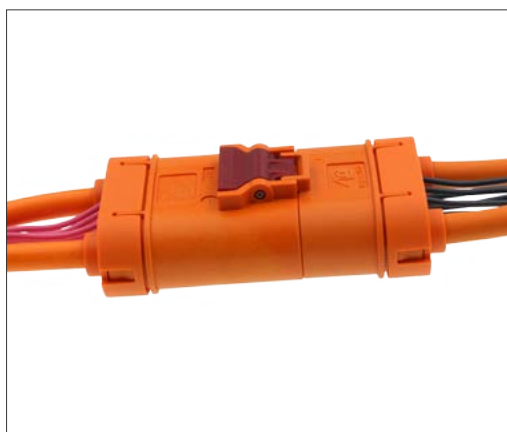
PANEL MOUNTING DIMENSION



HOW TO ORDER: PLUG

| | | | | |
|--|---------|---|---|----|
| | HVPT BM | 2 | A | 01 |
| Position: | | | | |
| 2: 2 positions | | | | |
| Coding: | | | | |
| A: Coding A | | | | |
| B: Coding B | | | | |
| Wire type: | | | | |
| 01: 16mm ² shielded wire | | | | |
| 02: 25mm ² shielded wire | | | | |
| 03: 35mm ² shielded wire | | | | |
| 04: 50mm ² shielded wire | | | | |
| 05: 70mm ² shielded wire | | | | |

AUTOLOCK



KEY FEATURES

Easy to install, reliable connection

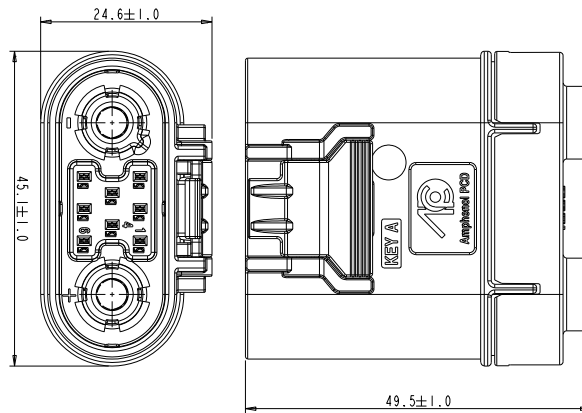
Sealing, IP67
Multiple coding positions

Economical

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

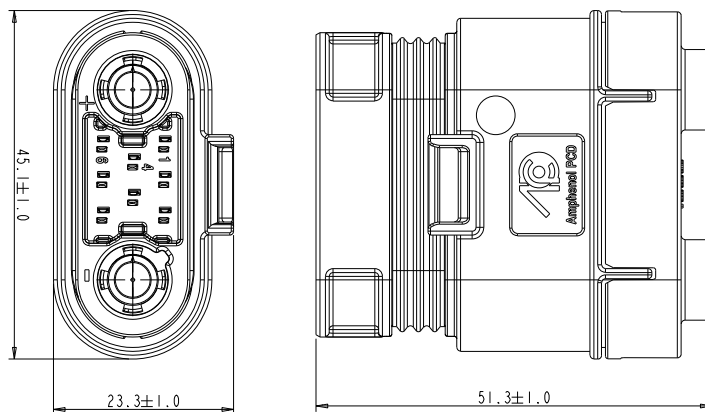
Wire-to-Wire (AUTOLOCK)

Plug: wire-to-wire



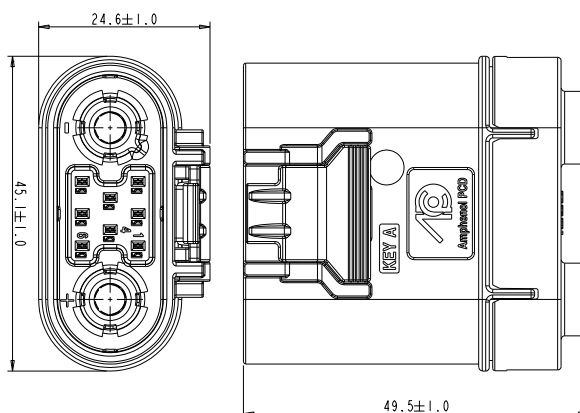
| | | | | |
|--------|-----------------------------|--|---------------------------------|---|
| AL4000 | 62 | XX | X | XX |
| | Product type: Plug (180) | Signal Pin: 04: 4 PIN 05: 5 PIN 06: 6 PIN 07: 7 PIN 08: 8 PIN | Coding: A: KEY A B: KEY B | Wire Specification: 06: 6mm ² 10: 10mm ² 16: 16mm ² |

Receptacle: wire-to-wire



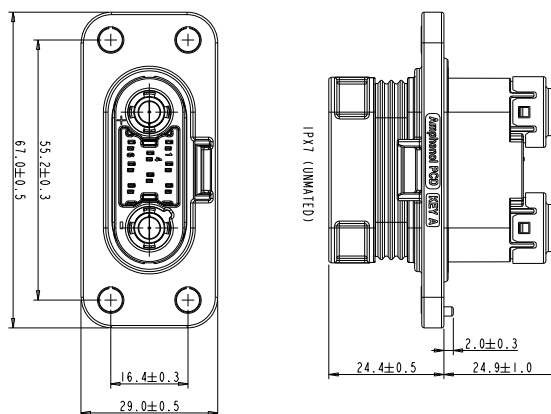
| | | | | |
|--------|-------------------------|------------------------|--|---|
| AL4000 | 22 | L | XX | XX |
| | Product type: Socket | Mounting: L: Inline | Signal Pin: 04: 4 PIN 05: 5 PIN 06: 6 PIN 07: 7 PIN 08: 8 PIN | Wire Specification: 06: 6mm ² 10: 10mm ² 16: 16mm ² |

Plug: wire-to-board



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

Receptacle: wire-to-board



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



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