

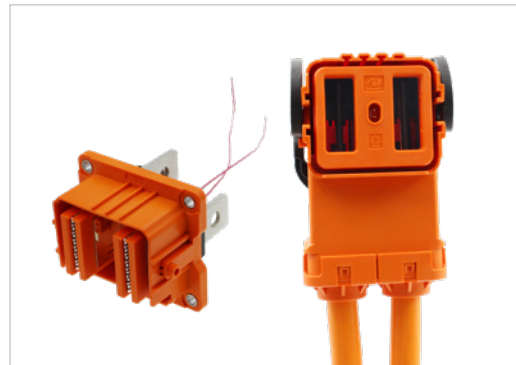


EXCEL | MATE

HVSL Series

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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 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, 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	690V	1000V	1000V	1000V	1000V	1000V	1000V
Rated Current	450A	350A	400A	250A	250A	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	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	25 to 70	95 to 120	25 to 50	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	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	I/M	I	I	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

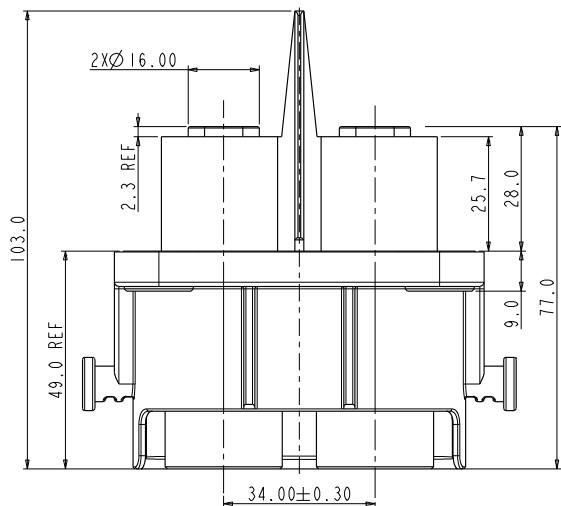
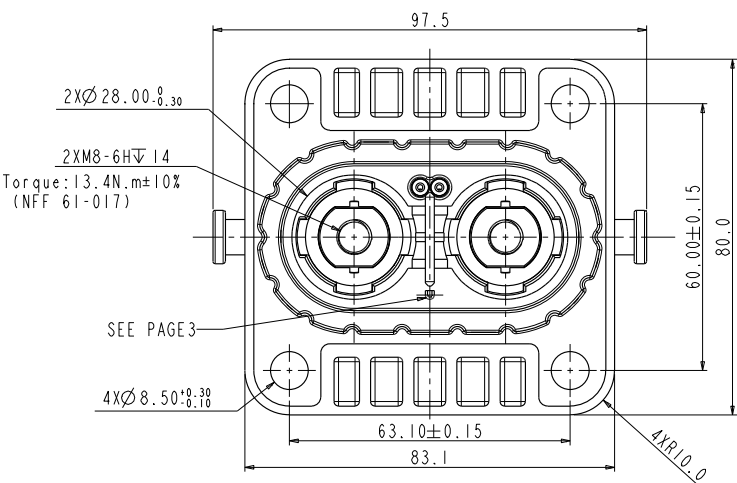
USCAR-2

USCAR-37

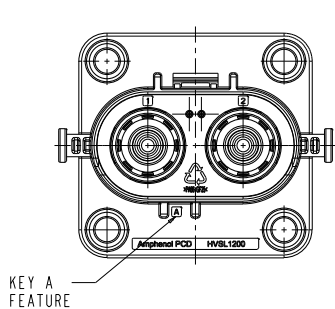
LV-215

RoHS

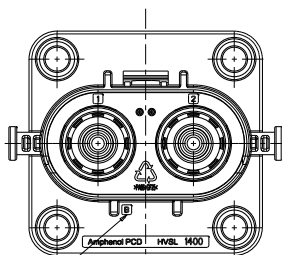
2 PIN RECEPTACLE BOX MOUNTED



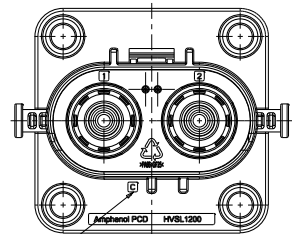
INSERT ORIENTATIONS



KEY A
FEATURE

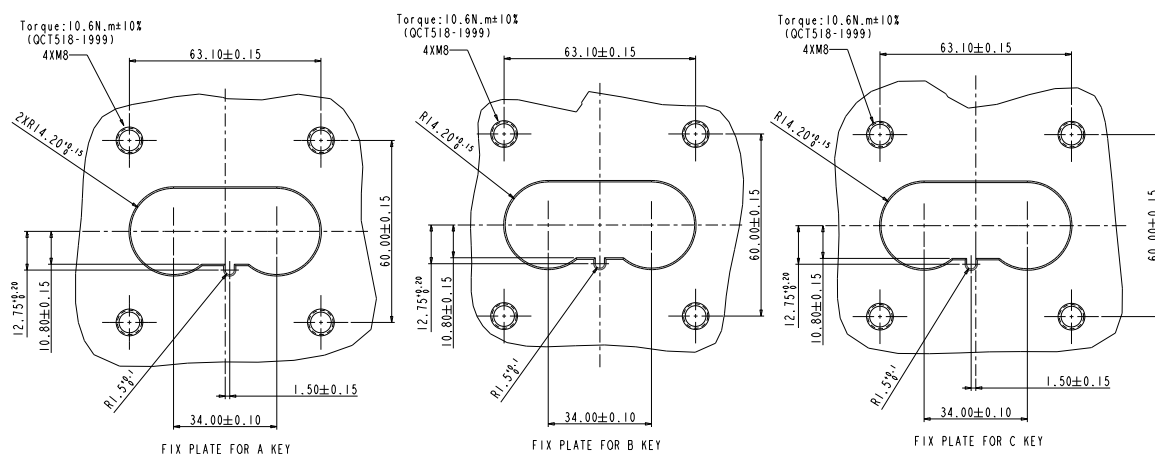


KEY B
FEATURE

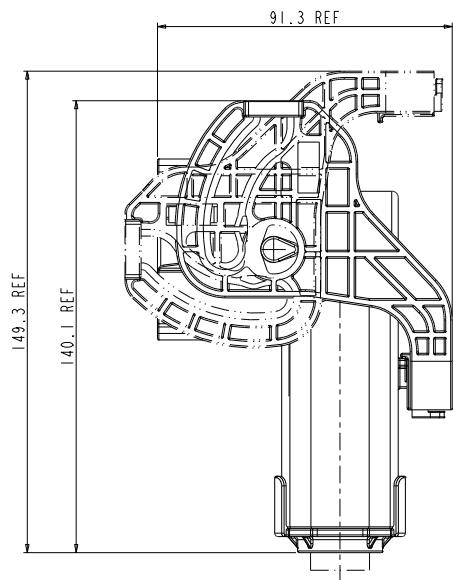
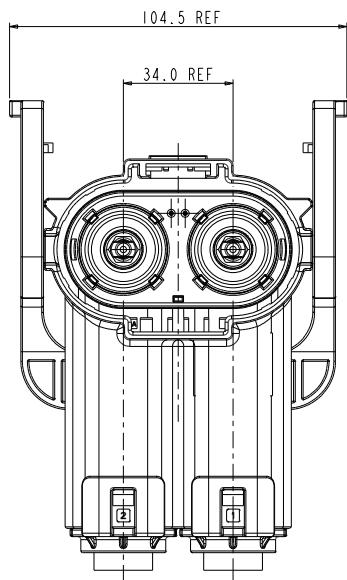


KEY C
FEATURE

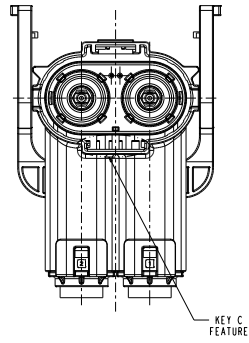
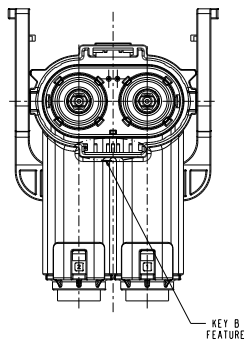
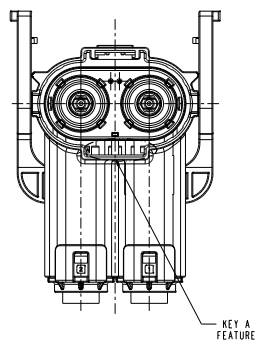
	Coding A	Coding B	Coding C
P/N	HVSL1400 02 2 A X D8S6	HVSL1400 02 2 B X D8S6	HVSL1400 02 2 C X D8S6



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

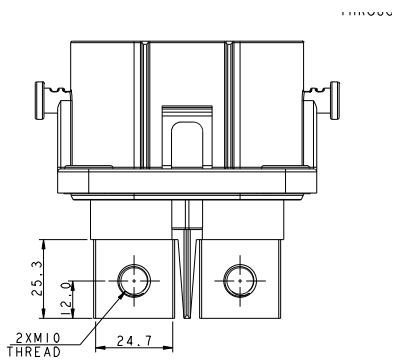
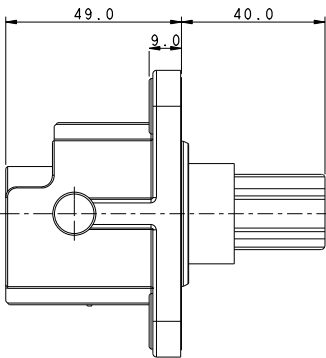
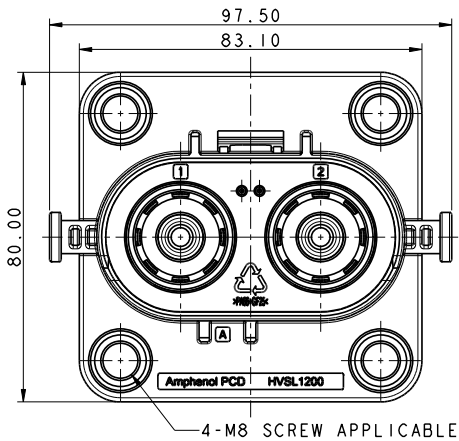
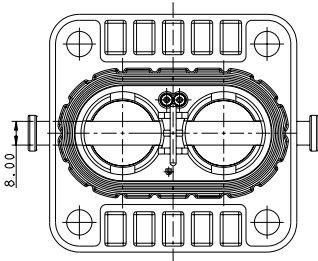
Sealing, IP67 (mated), IP6K9K

Touch-proof, IP2XB

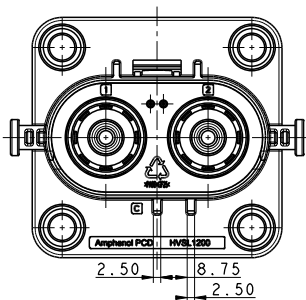
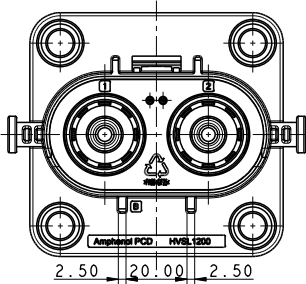
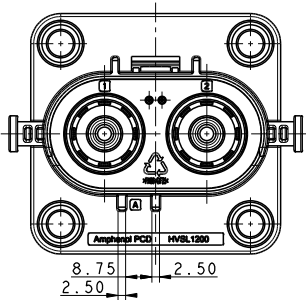
Multiple coding positions

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	

2 PIN RECEPTACLE BOX MOUNTED

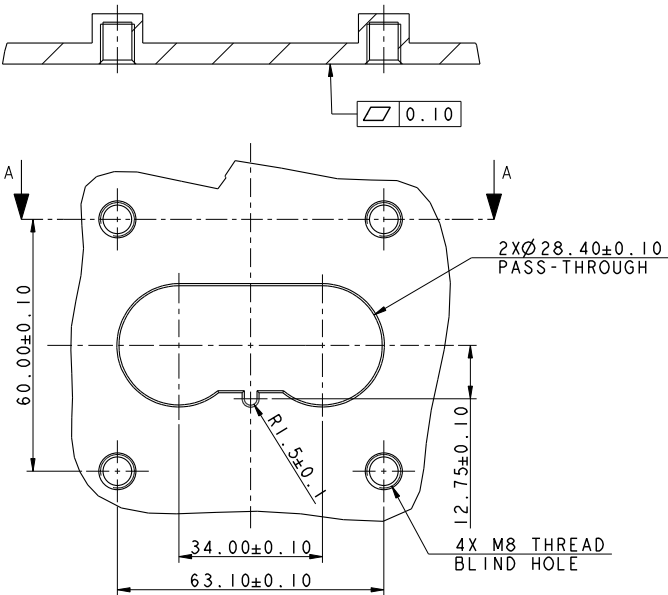


INSERT ORIENTATIONS

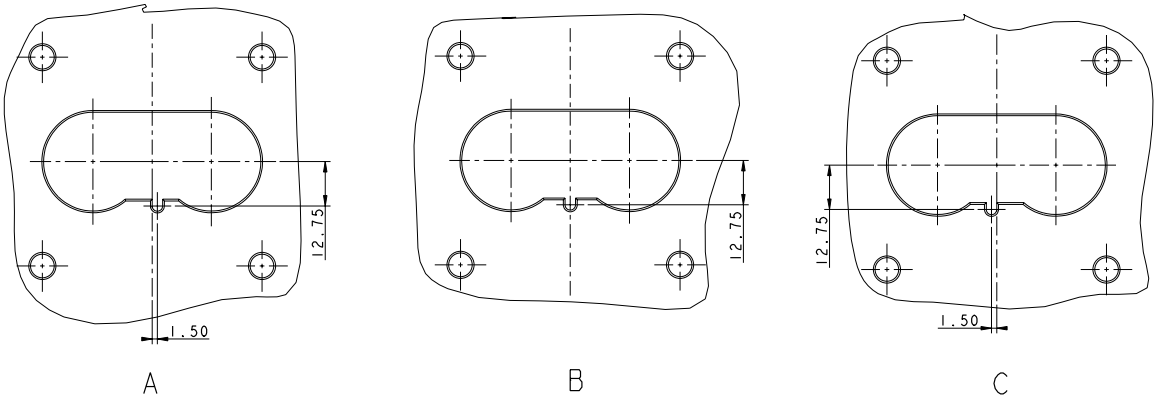


	Coding A	Coding B	Coding C
P/N	HVSL1200 02 2 A	HVSL1200 02 2 B	HVSL1200 02 2 C

PANEL MOUNTING DIMENSIONS

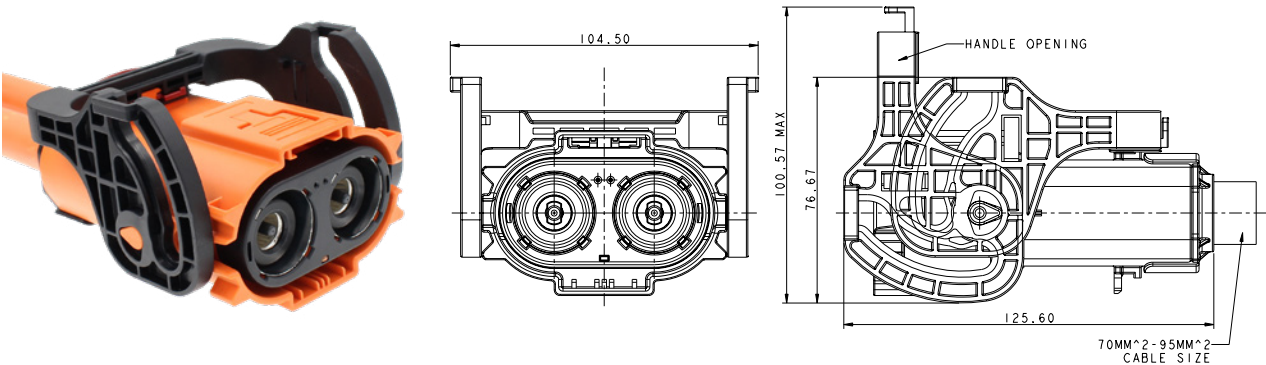


MOUNTING PANEL LAYOUT
RECOMMENDED THICKNESS 3MM MIN.

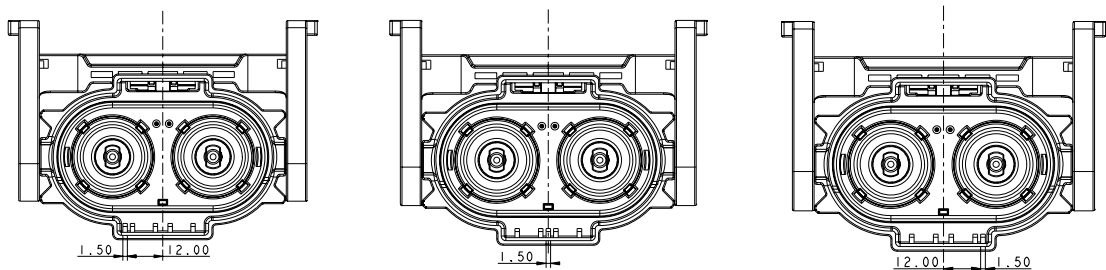


ExcelMate Max (HVSL 1200)

2 PIN PLUG

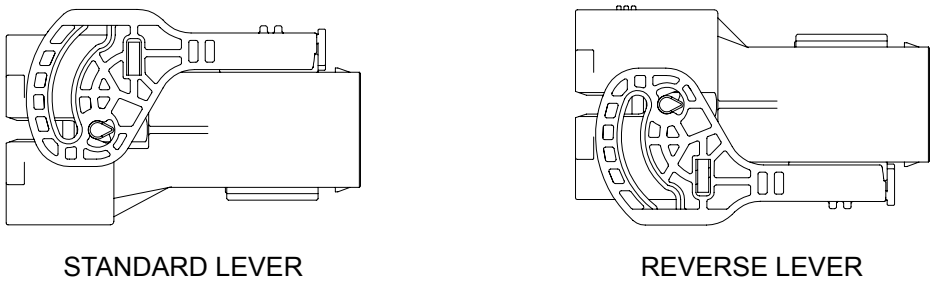


INSERT ORIENTATIONS

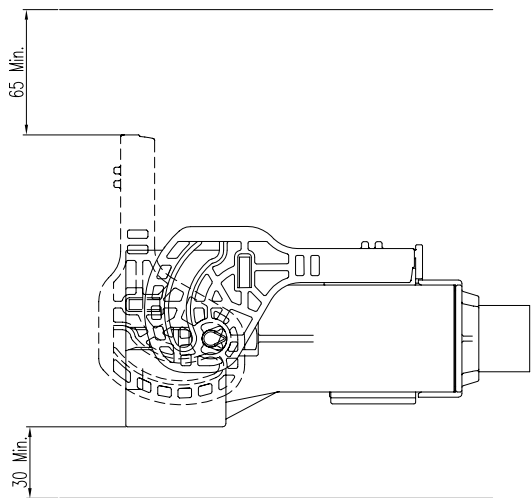


	Coding A	Coding B	Coding C
P/N	HVSL1200 06 2 A	HVSL1200 06 2 B	HVSL1200 06 2 C

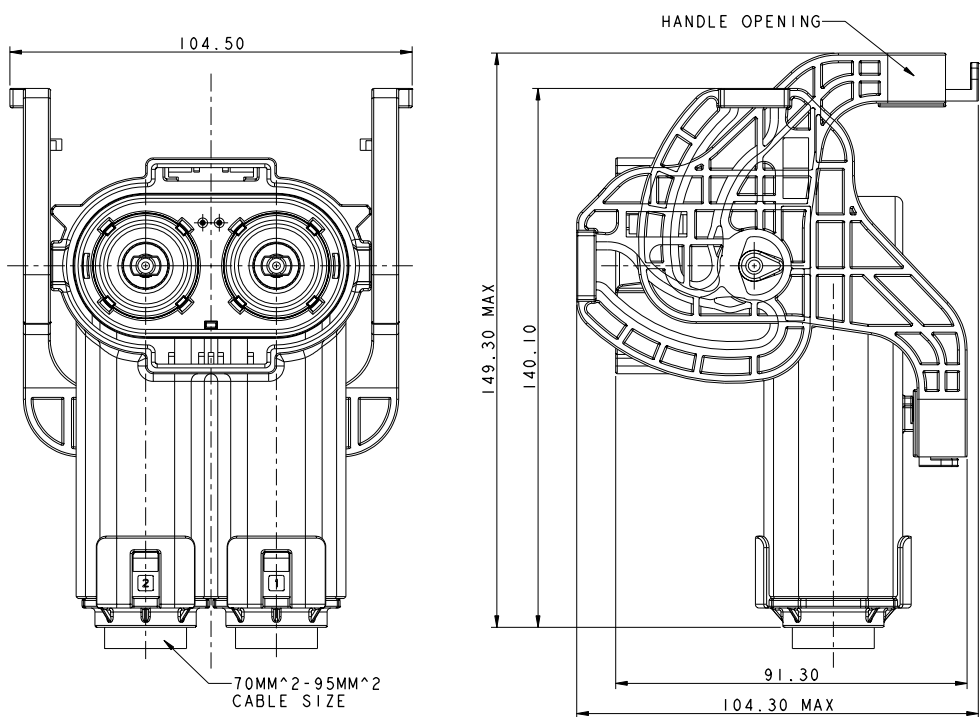
LEVER POSITION



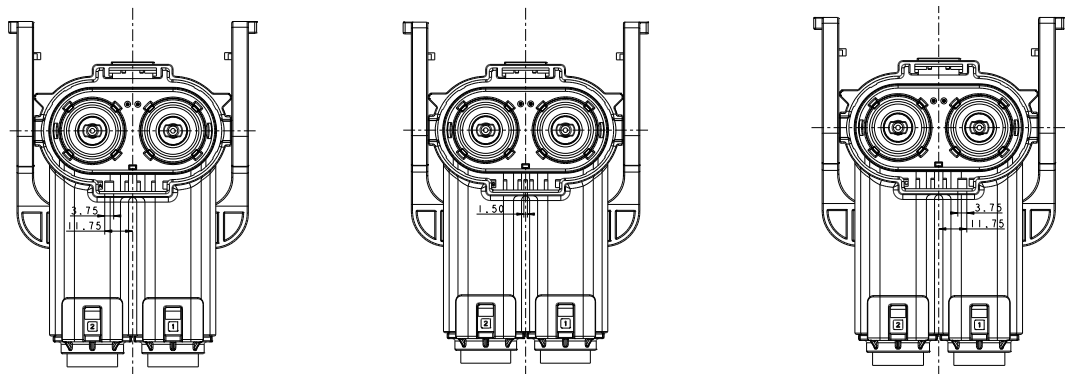
INSTALLATION CLEARANCE



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

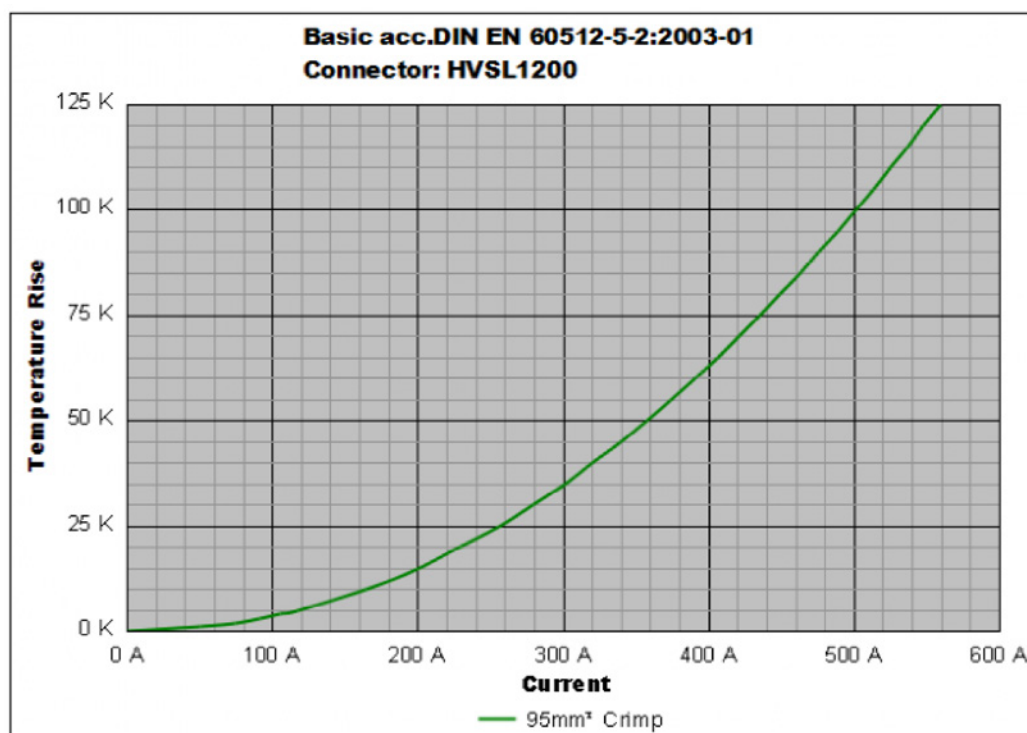
	HVSL1200	02	2	A	0	H10
Product type:						
02: Box mounted receptacle						
Position:						
2: 2 position						
Coding / Alternate position:						
A: Coding A						
B: Coding B						
C: Coding C						
Interlock:						
0: Without interlock						
1: With interlock						
Cable size:						
H10: OT terminal						

EXTRACTION TOOL FOR RECEPTACLE SIGNAL CONTACT

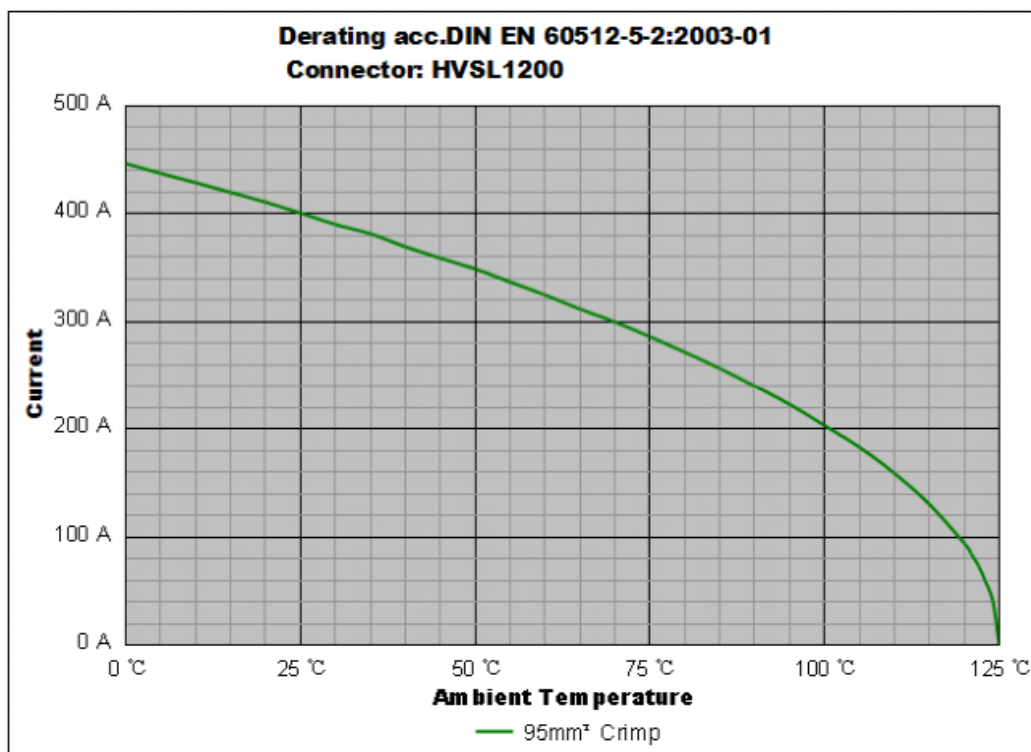
HVIL-contact Extraction tool: HVTOOL11R



HVSL 1200 | Temperature Rise



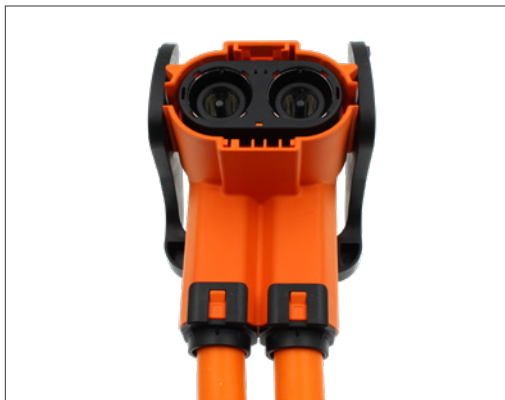
HVSL 1200 | Derating Curve



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 $> 200\text{M}\Omega$

Dielectric withstand
voltage 3000V AC

ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

STANDARDS

USCAR-2

USCAR-37

LV-215

RoHS & REACH

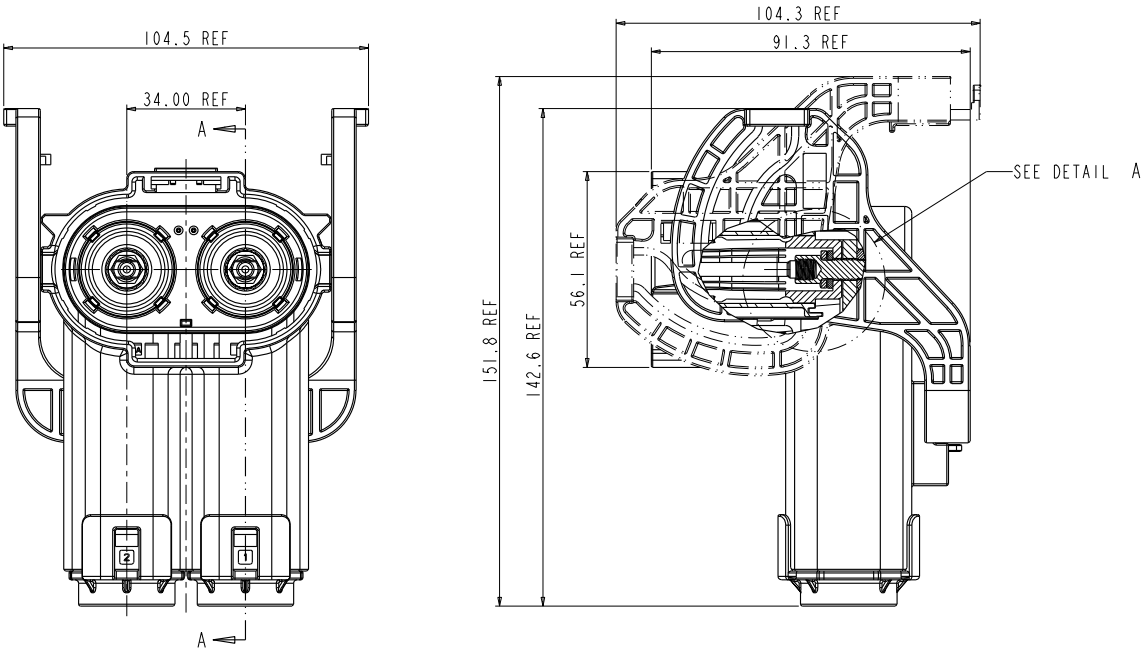
MATERIAL

Contacts Copper alloy with silver
plating

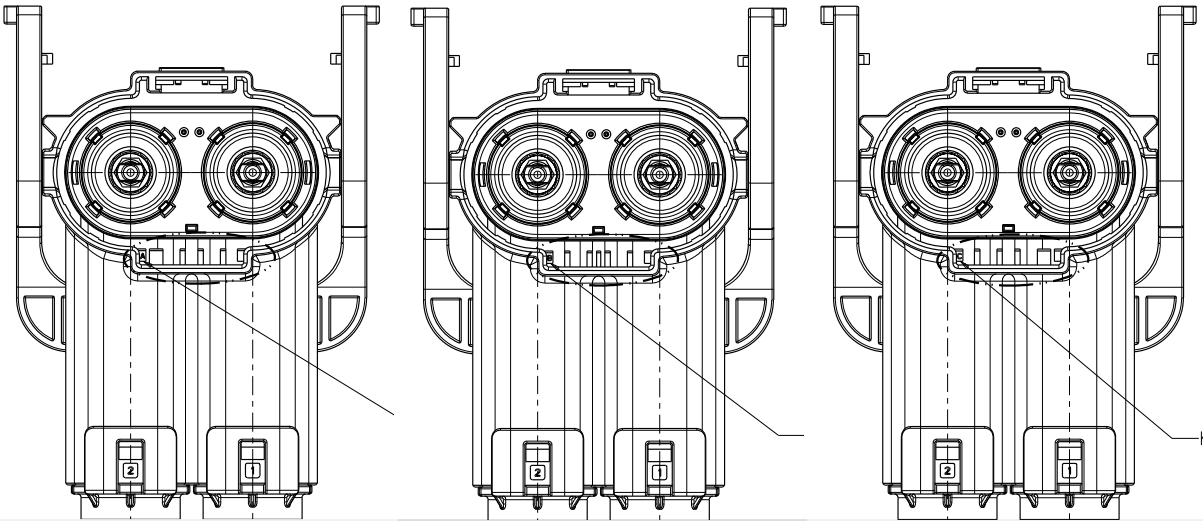
Housing PA66 + GF

Seal SR

2 PIN RIGHT ANGLE PLUG



INSERT ORIENTATIONS



	Coding A	Coding B	Coding C
P/N	HVSL P 1200 08 2 A	HVSL P 1200 08 2 B	HVSL P 1200 08 2 C

HOW TO ORDER: PLUG

	HVSL P 1200	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 $> 100\text{M}\Omega$

Dielectric withstand
voltage 3000V AC

ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

STANDARDS

USCAR-2

USCAR-37

LV-215

RoHS & REACH

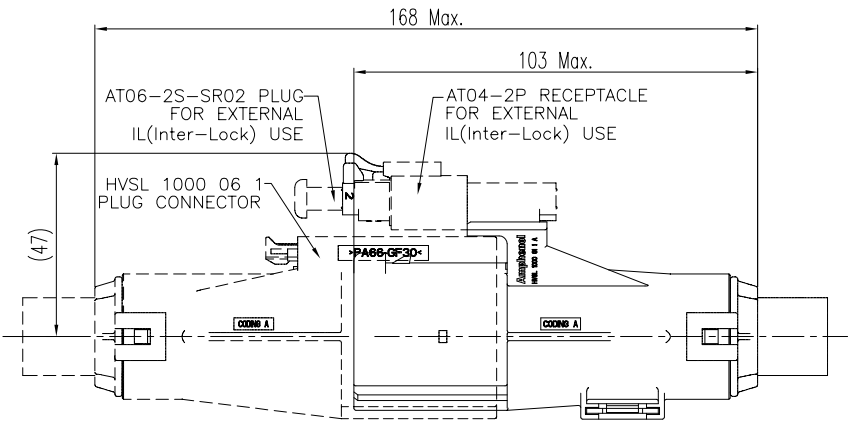
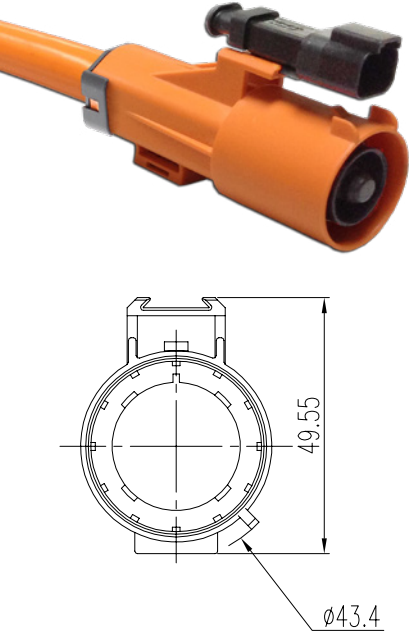
MATERIAL

Contacts Copper alloy with silver
plating

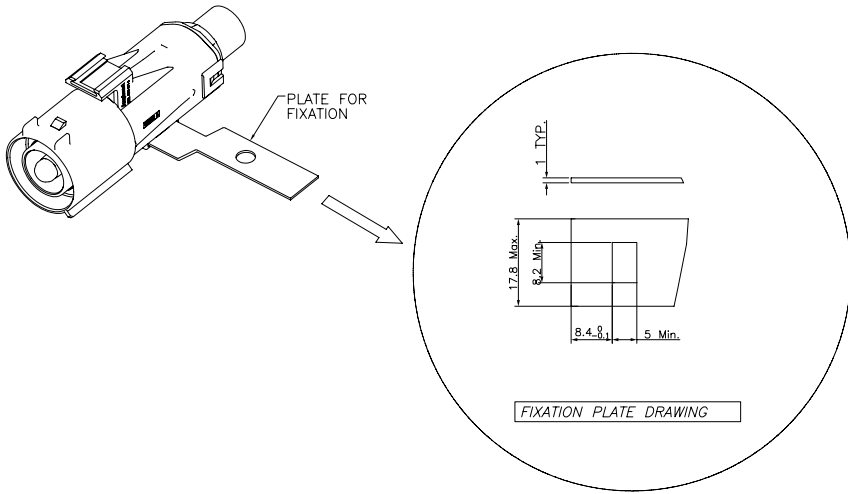
Housing PA66 + GF

Seal SR

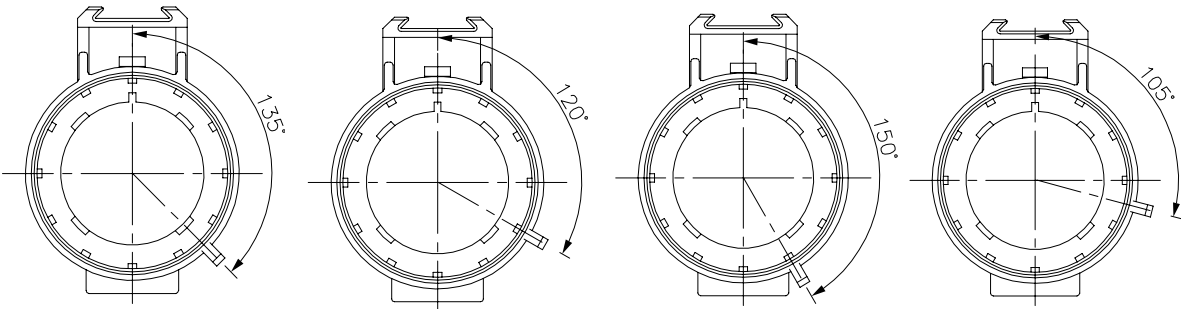
RECEPTACLE IN-LINE



MOUNTED GROOVE

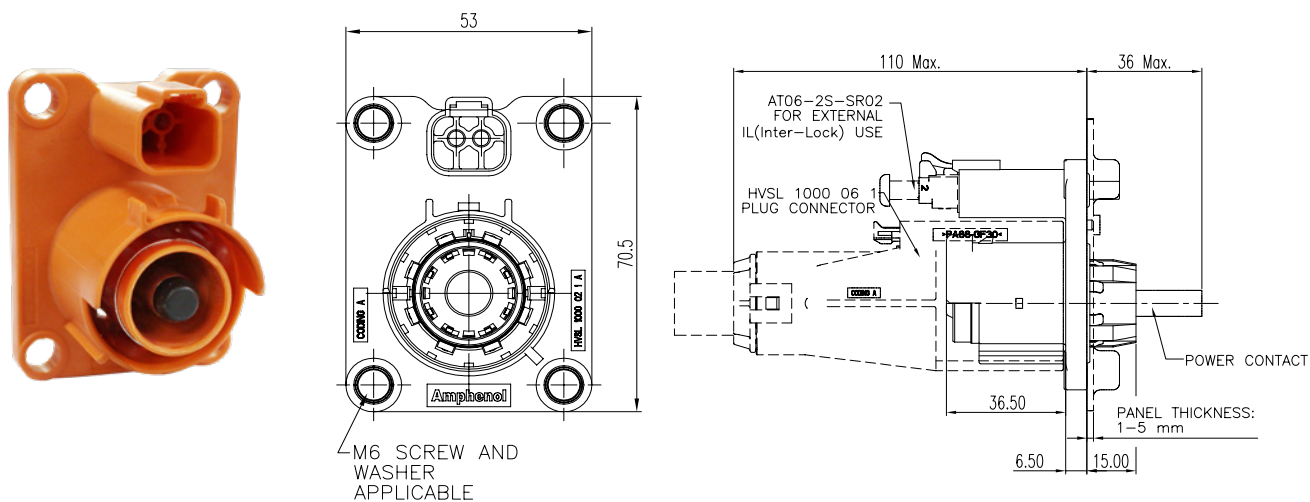


INSERT ORIENTATIONS

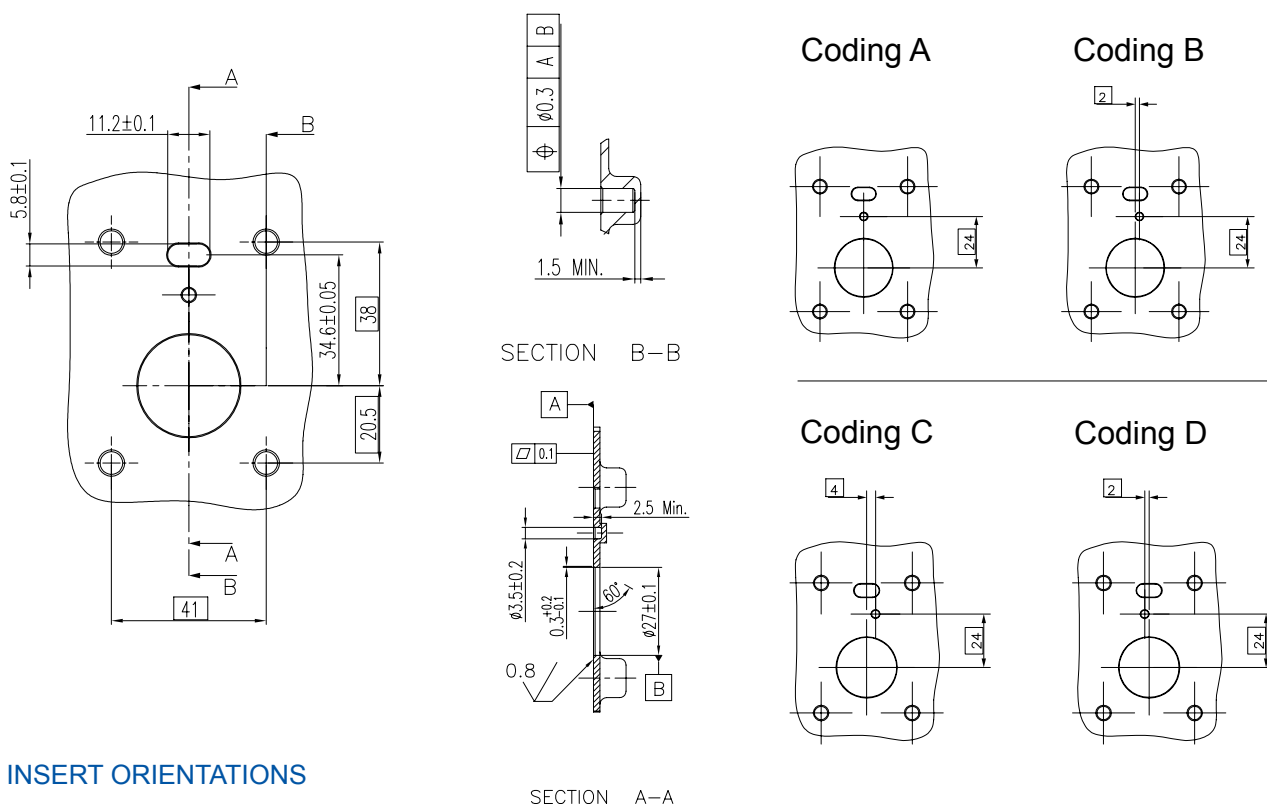


	Coding A	Coding B	Coding C	Coding D
P/N	HVSL1000 01 1 A	HVSL1000 01 1 B	HVSL1000 01 1 C	HVSL1000 01 1 D

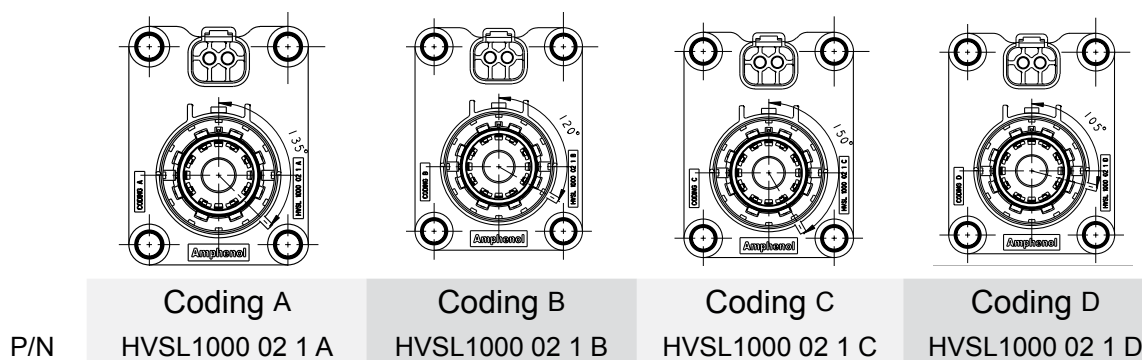
RECEPTACLE BOX MOUNTED WITH INTERLOCK



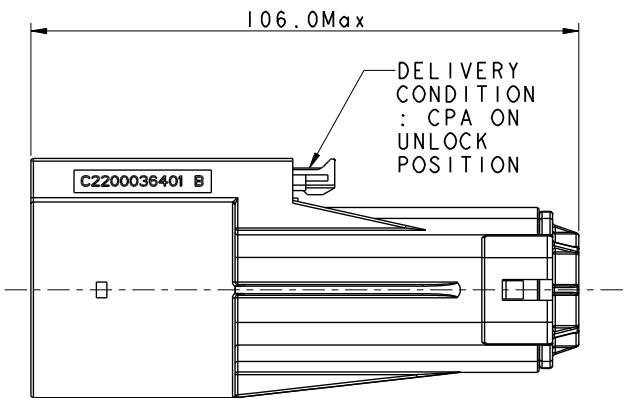
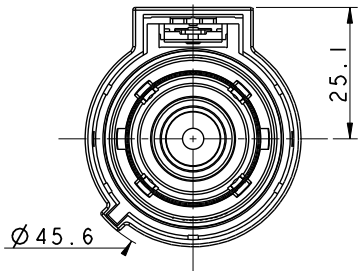
PANEL MOUNTING DIMENSIONS



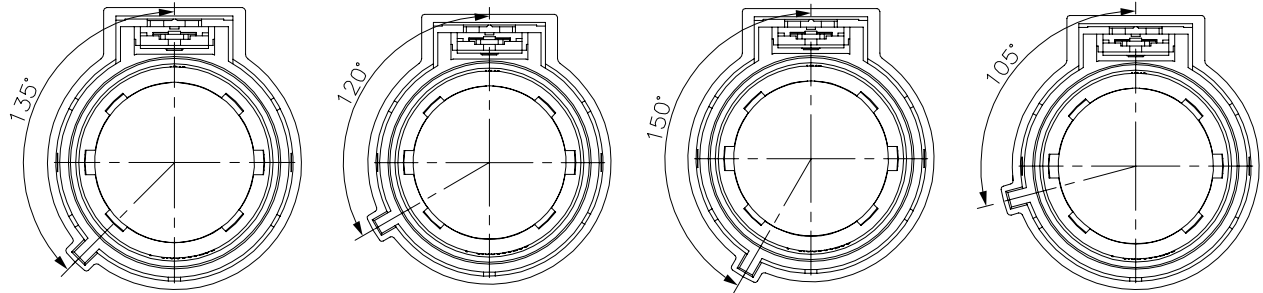
INSERT ORIENTATIONS



PLUG



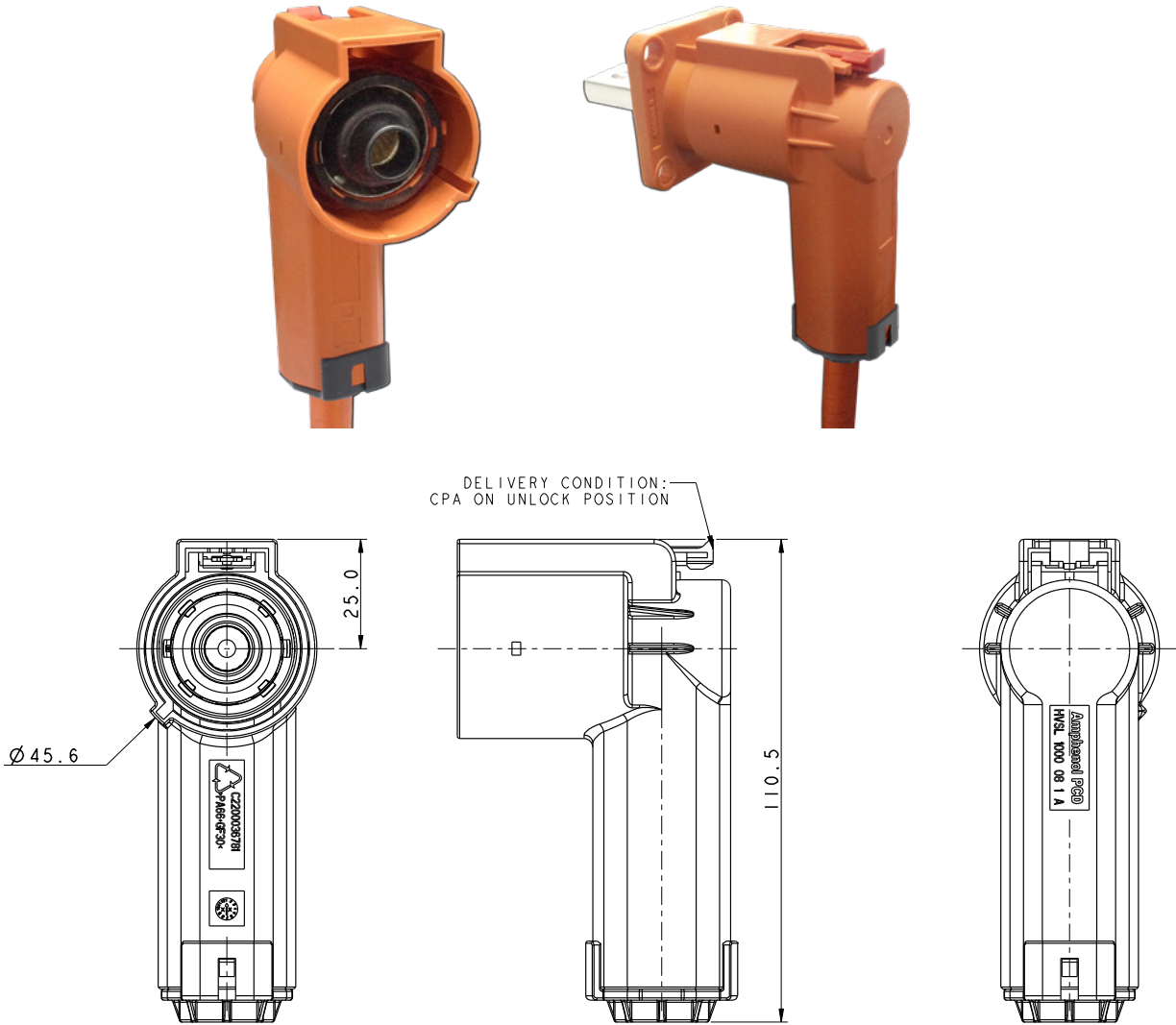
INSERT ORIENTATIONS



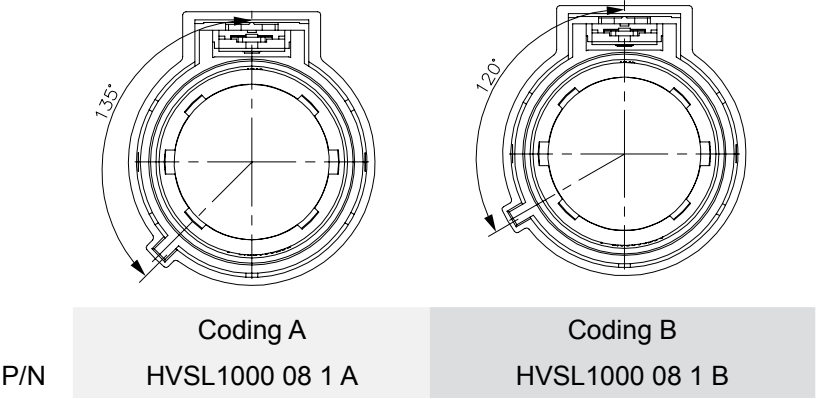
	Coding A	Coding B	Coding C	Coding D
P/N	HVSL1000 06 1 A	HVSL1000 06 1 B	HVSL1000 06 1 C	HVSL1000 06 1 D

Excel|Mate Plus
(HVSL 1000)

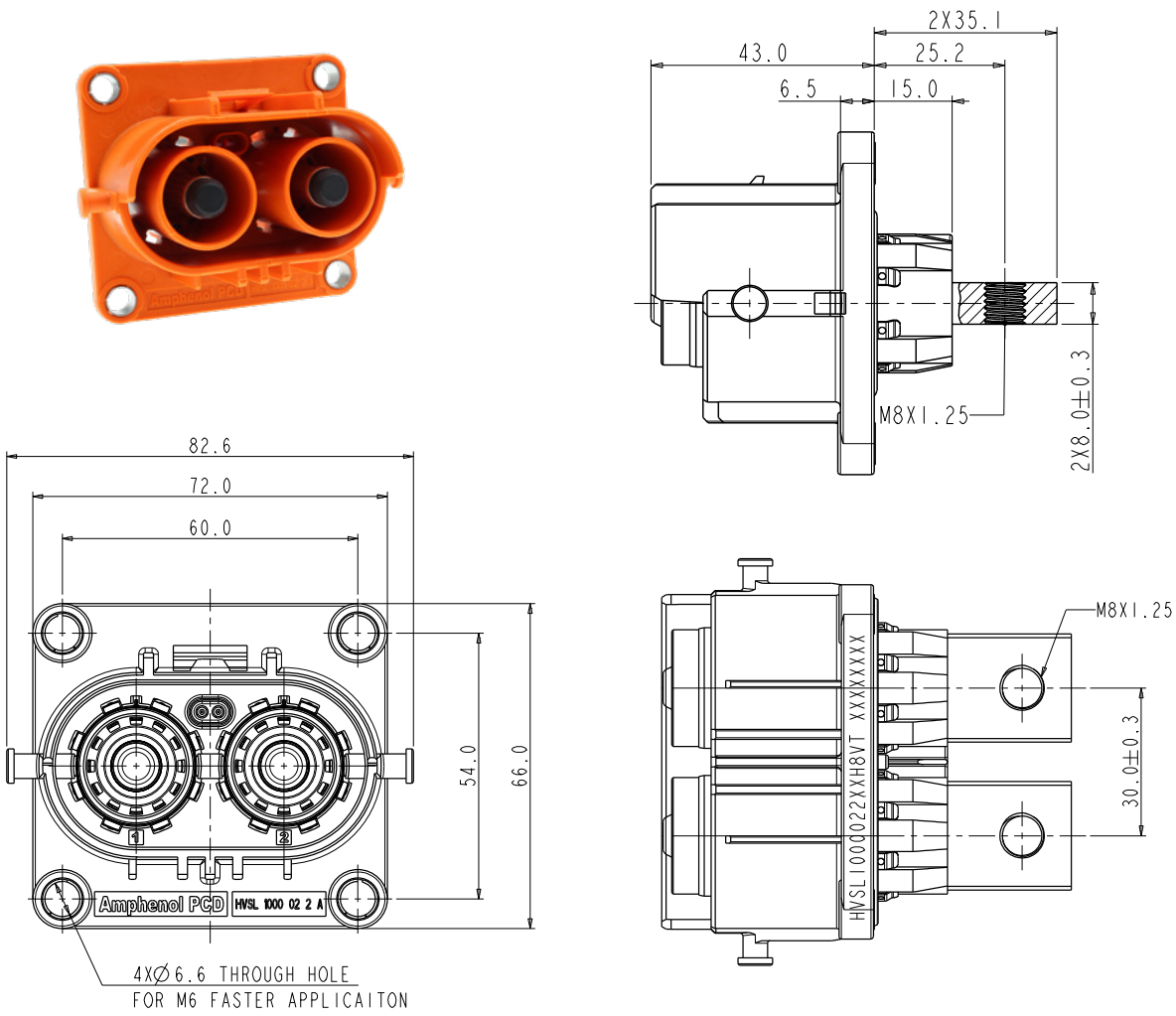
PLUG RIGHT ANGLE



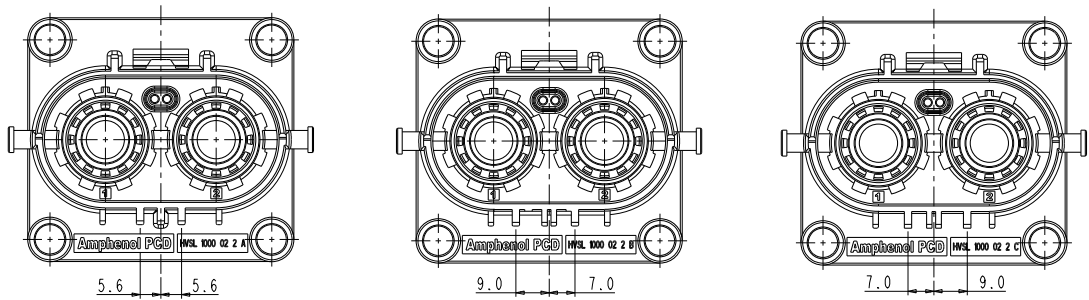
INSERT ORIENTATIONS



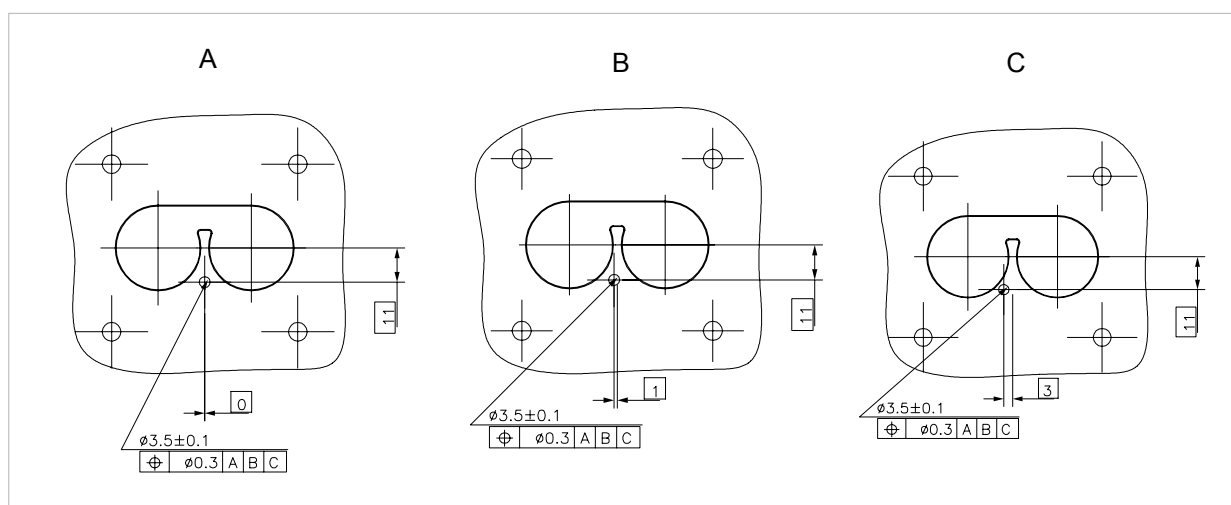
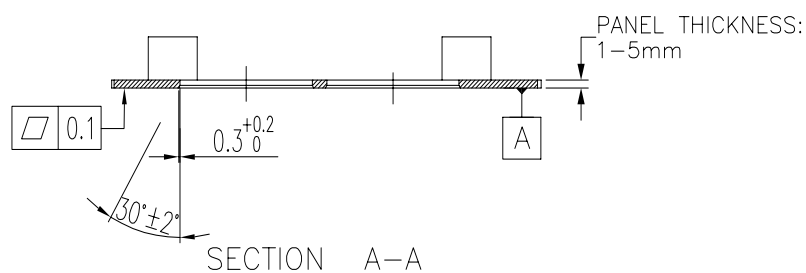
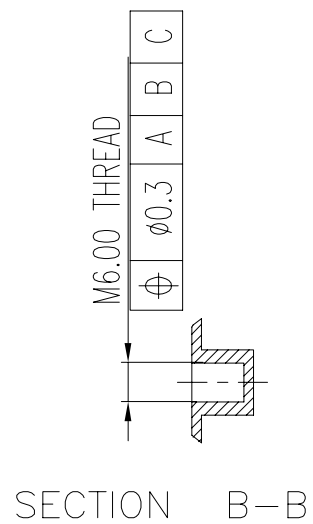
2 PIN RECEPTACLE BOX MOUNTED



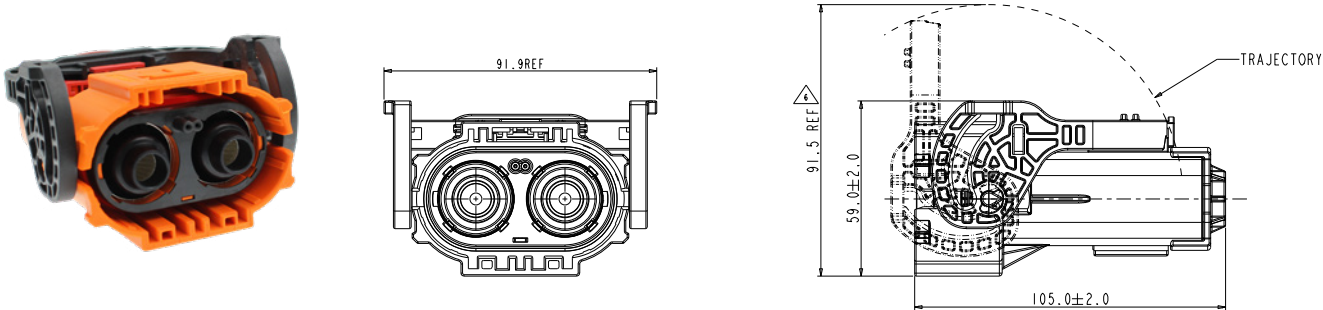
INSERT ORIENTATIONS



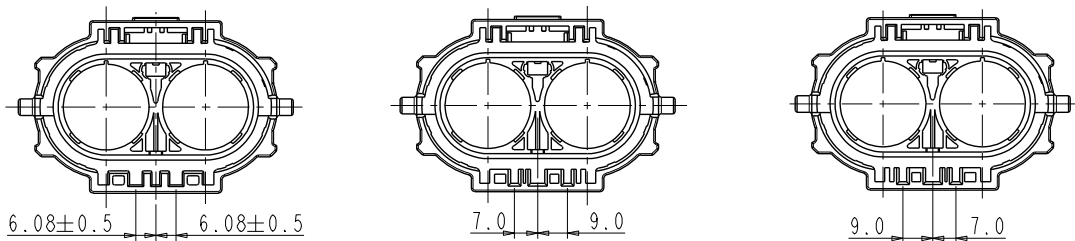
	Coding A	Coding B	Coding C
P/N	HVSL1000 02 2 A	HVSL1000 02 2 B	HVSL1000 02 2 C



2 PIN PLUG

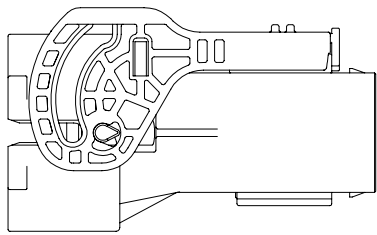


INSERT ORIENTATIONS

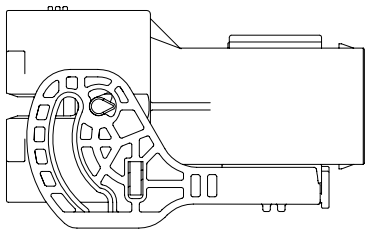


	Coding A	Coding B	Coding C
P/N	HVSL1000 06 2 A	HVSL1000 06 2 B	HVSL1000 06 2 C

LEVER POSITION

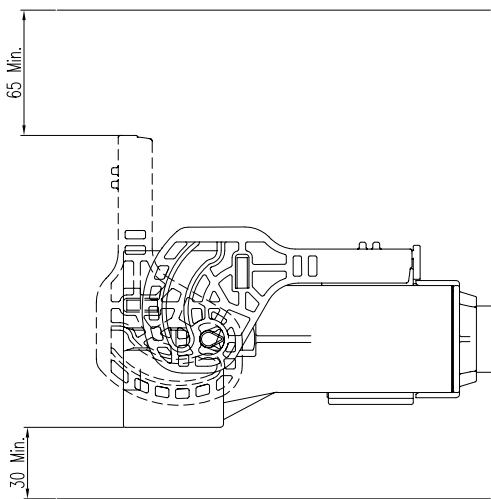


STANDARD LEVER

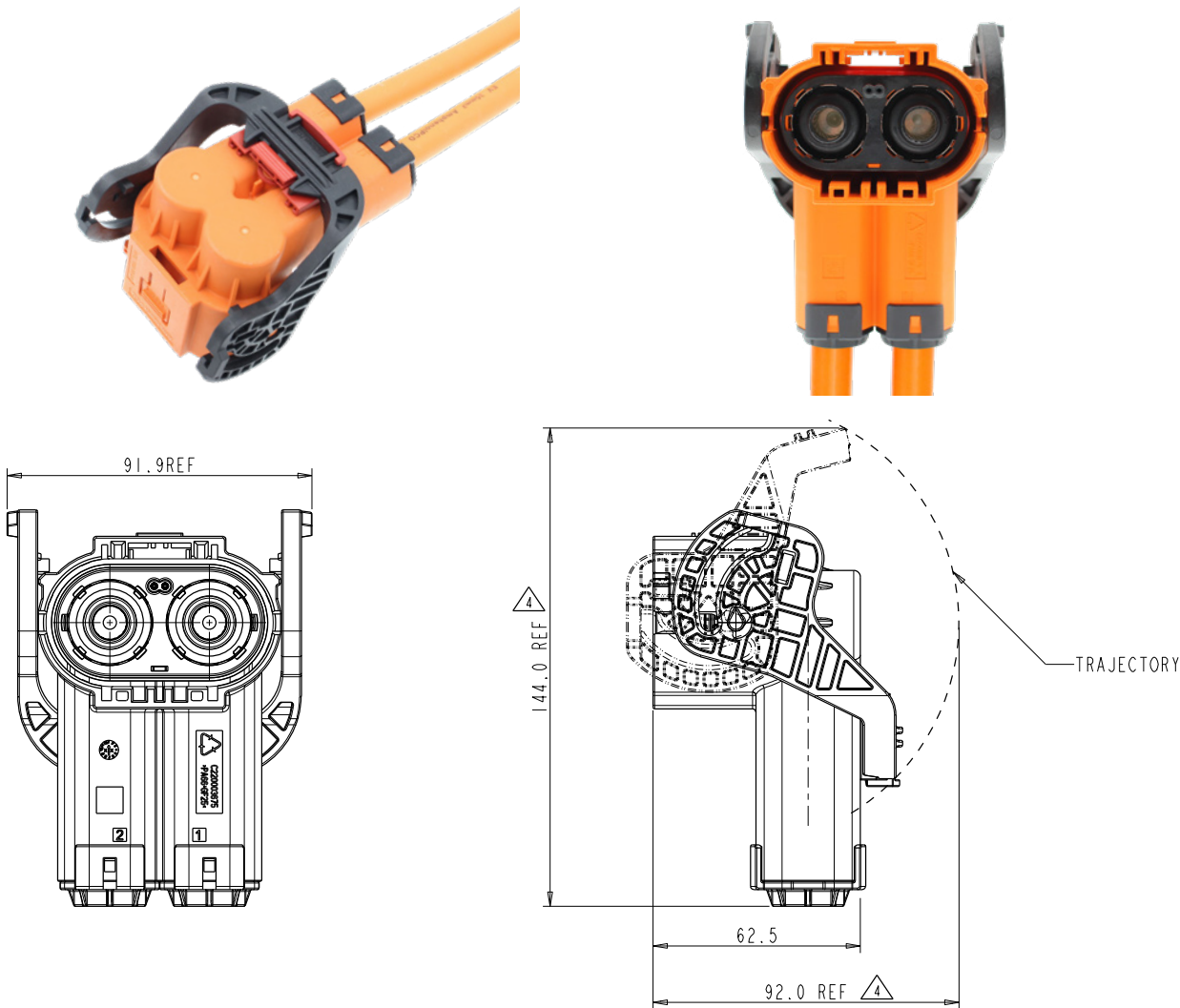


REVERSE LEVER

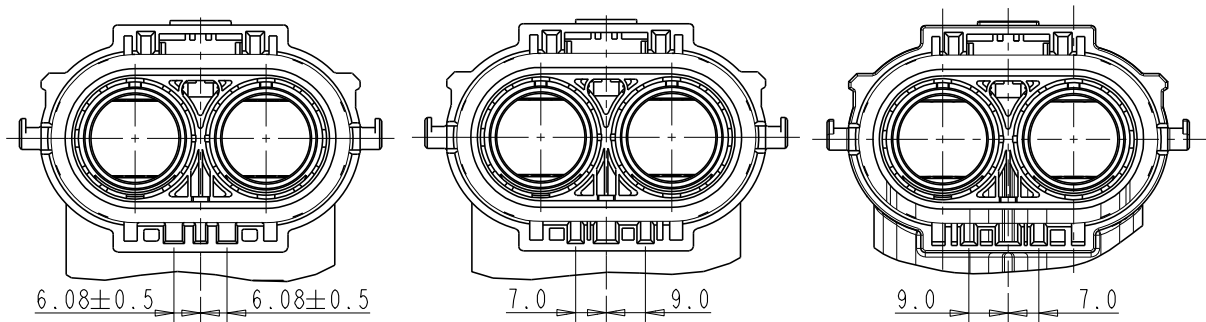
INSTALLATION CLEARANCE



2 PIN PLUG RIGHT ANGLE

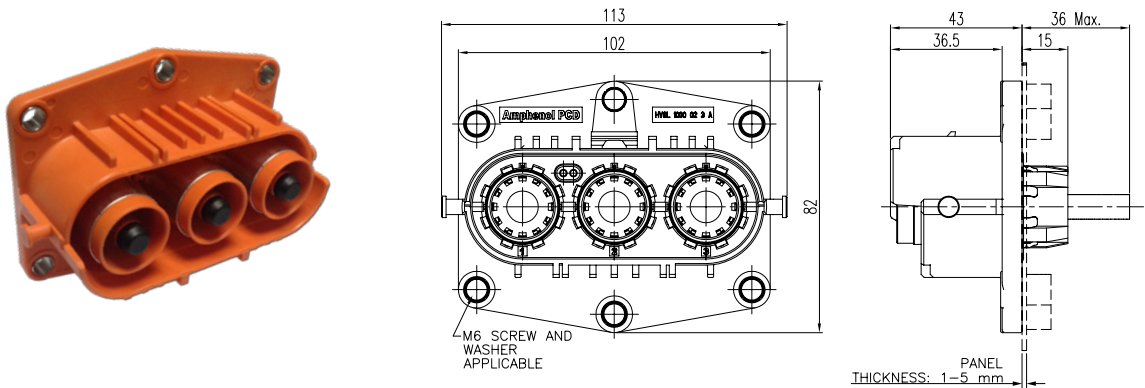


INSERT ORIENTATIONS

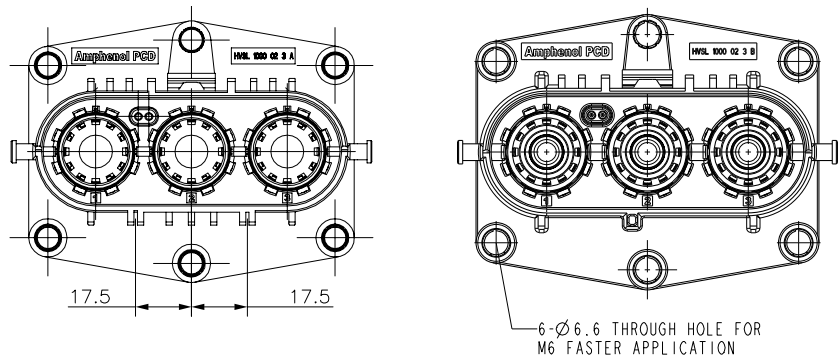


	Coding A	Coding B	Coding C
P/N	HVSL1000 08 2 A	HVSL1000 08 2 B	HVSL1000 08 2 C

3 PIN RECEPTACLE BOX MOUNTED

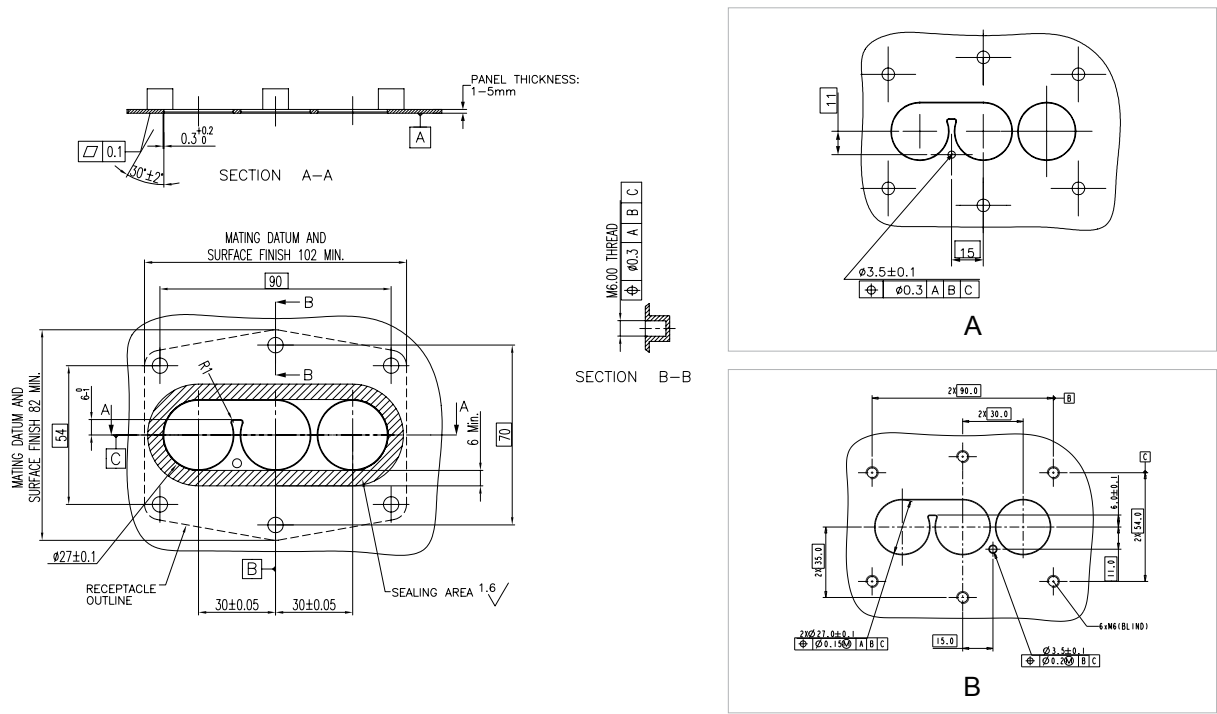


INSERT ORIENTATIONS



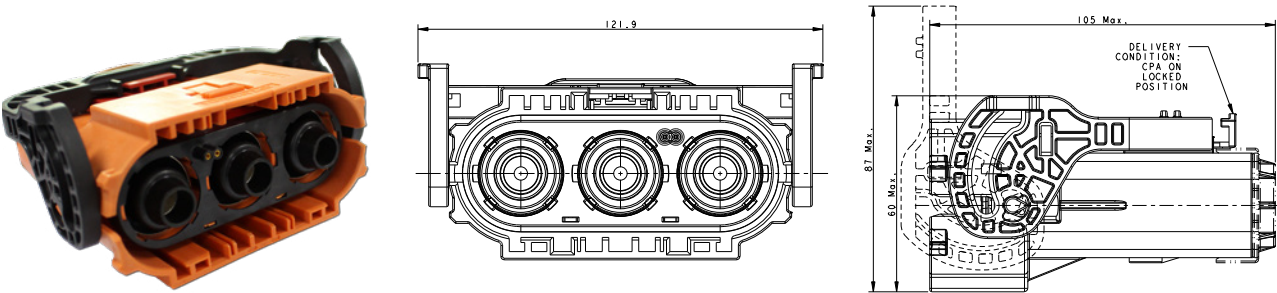
	Coding A	Coding B
P/N	HVSL1000 02 3 A	HVSL1000 02 3 B

PANEL MOUNTING DIMENSIONS

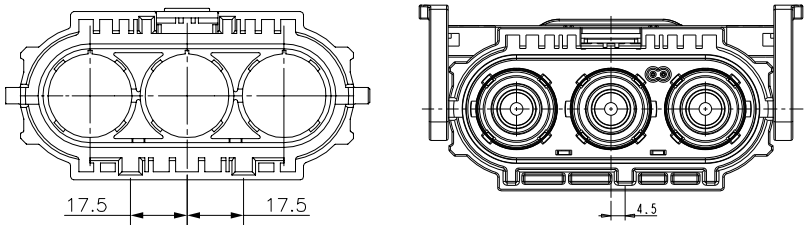


Excel|Mate Plus (HVSL 1000)

3 PIN PLUG

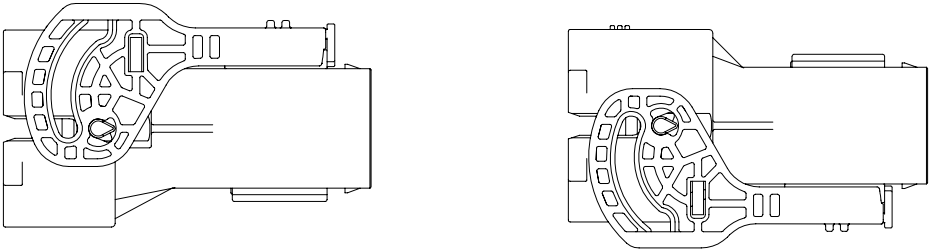


INSERT ORIENTATIONS



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

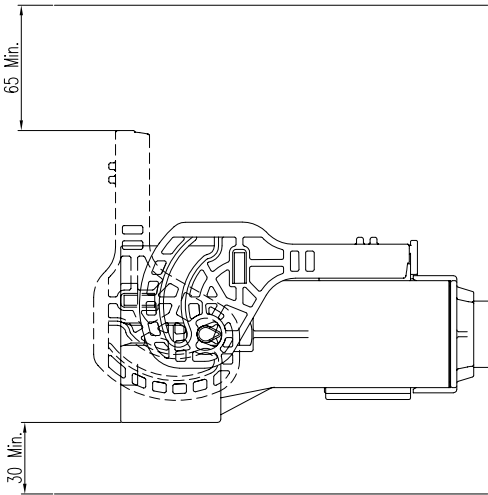
LEVER POSITION



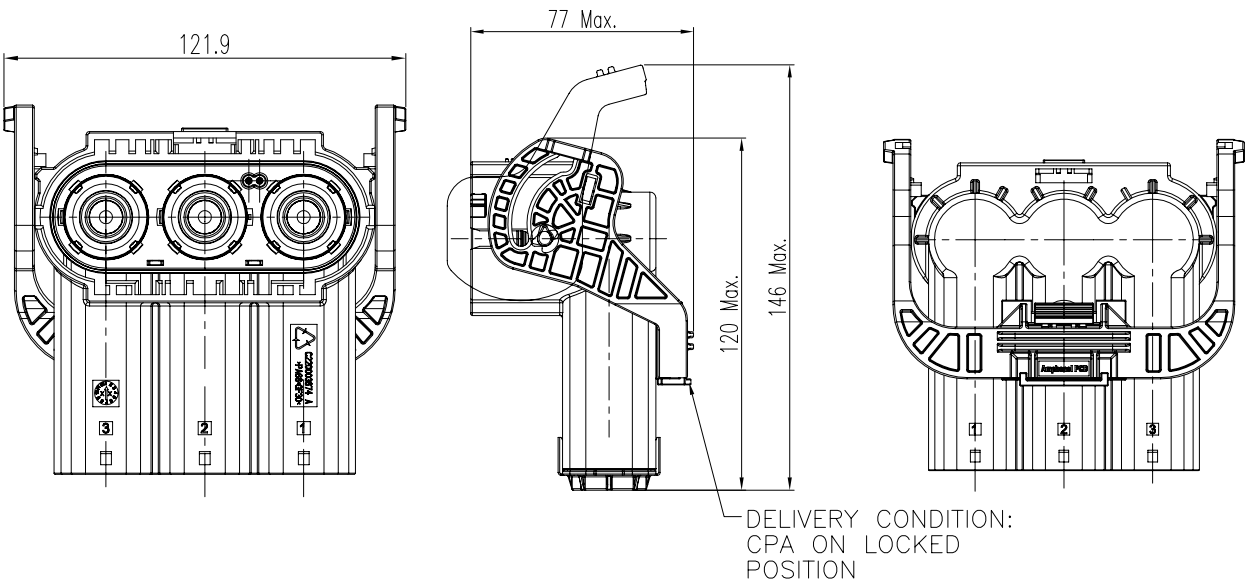
STANDARD LEVER

REVERSE LEVER

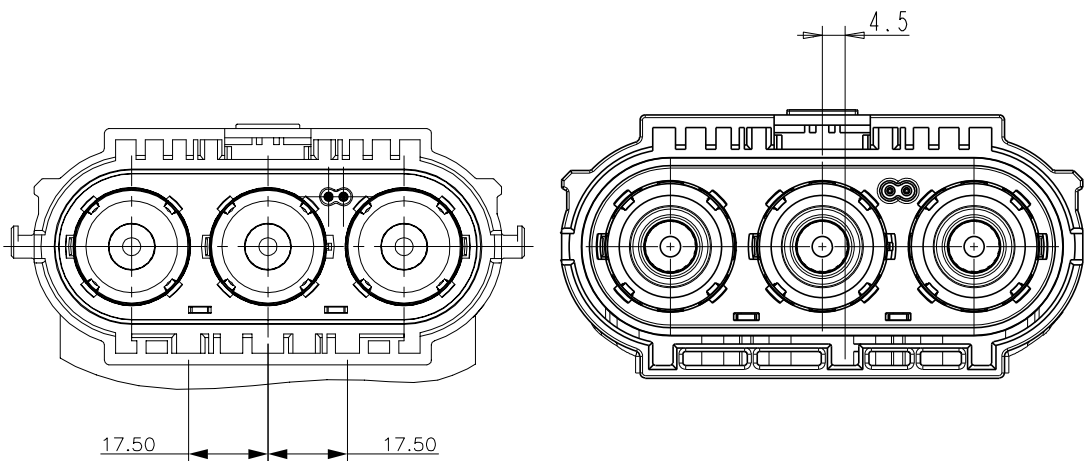
INSTALLATION CLEARANCE



3 PIN PLUG RIGHT ANGLE

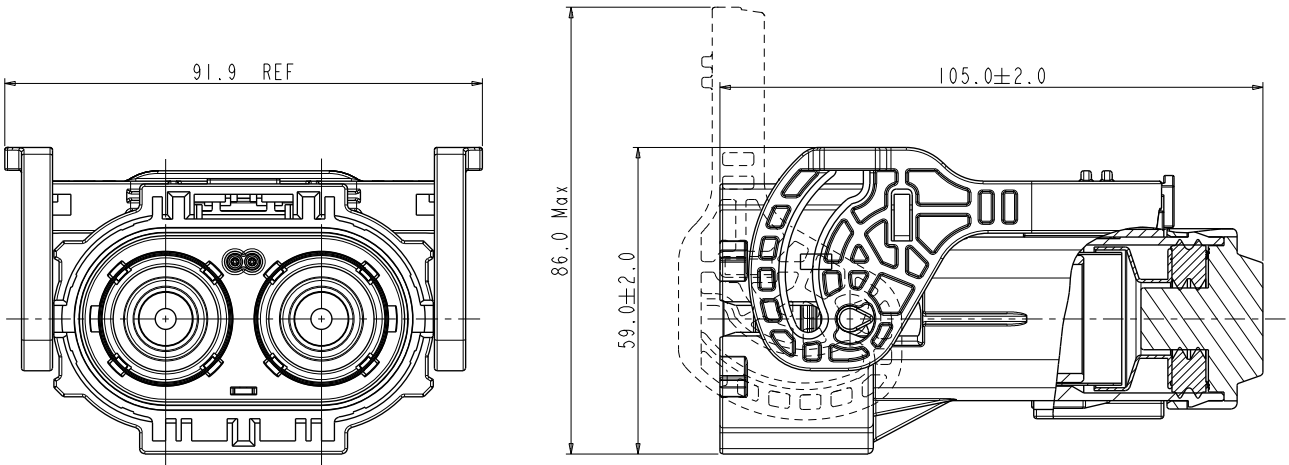


INSERT ORIENTATIONS



	Coding A	Coding B
P/N	HVSL1000 08 3 A	HVSL1000 08 3 B

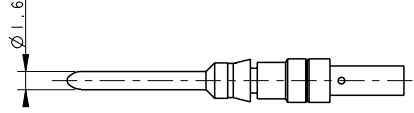
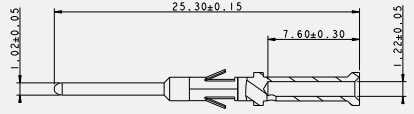
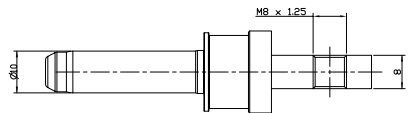
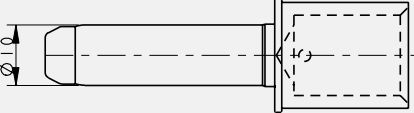
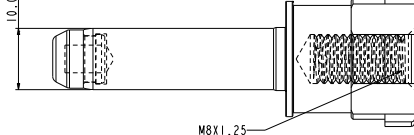
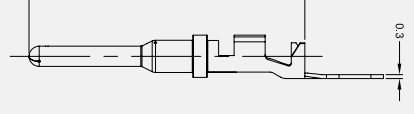
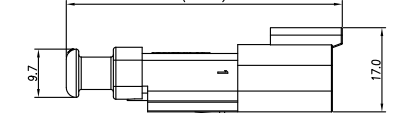
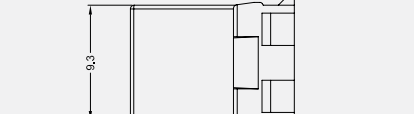
DUMMY PLUG



	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

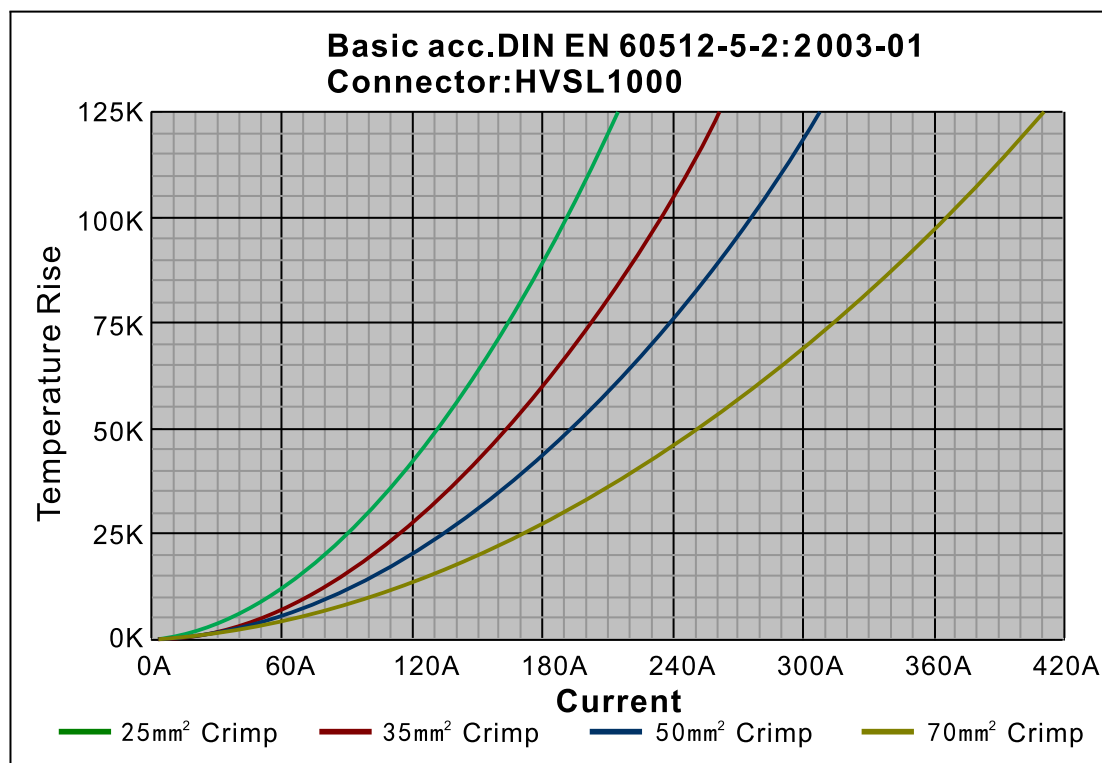
	HVSL1000	06	1	A	0	35
Product type:						
06: Straight plug 08: Right angle plug						
Position:						
1: 1 position 2: 2 position 3: 3 position						
Coding / Alternate position:						
A: Coding A (for positions 1, 2 & 3)						
B: Coding B (for positions 1 & 2)						
C: Coding C (for position 1)						
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

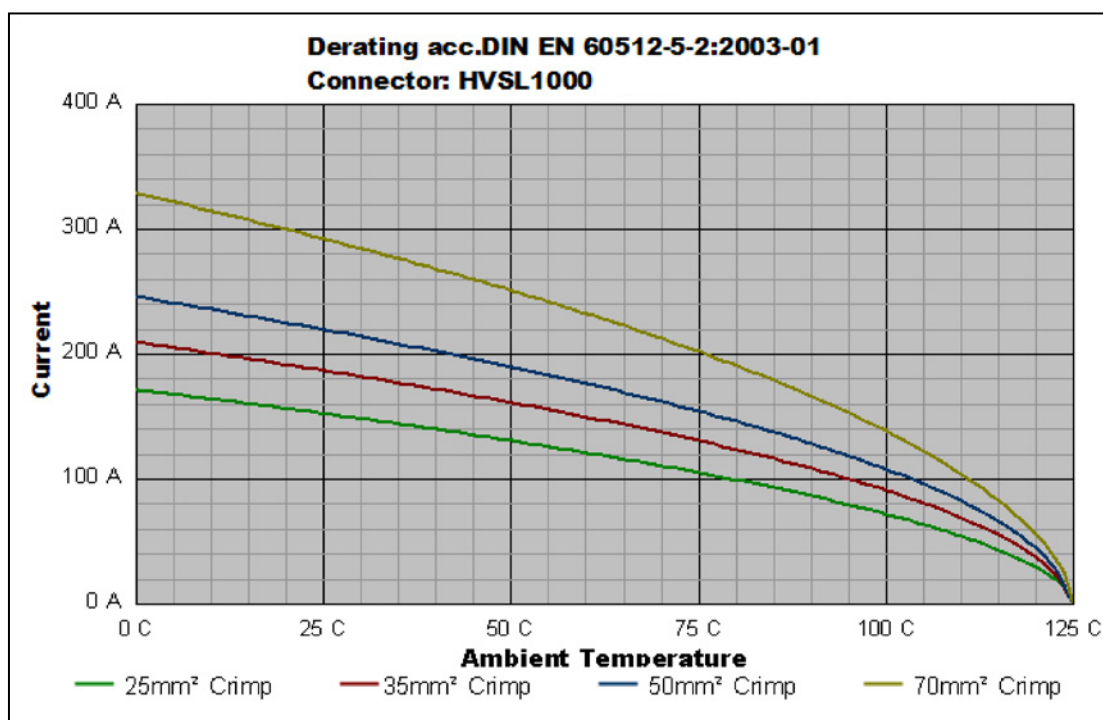
	HVSL1000	01	1	A	0	35
Product type:						
01: In-line receptacle						
Position:						
1: 1 position						
Coding / Alternate position:						
A: Coding A						
B: Coding B						
C: Coding C						
D: Coding D						
Interlock:						
0: Without interlock 1: With interlock						
Cable size:						
25: 25mm 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 $> 200\text{M}\Omega$

Dielectric withstand
voltage 3000V AC

ENVIRONMENTAL

Sealing IP67, IP6K9K (mated)

Touch-proof IP2XB

Temperature range -40°C to 125°C

STANDARDS

USCAR-2

USCAR-37

LV-215

RoHS & REACH

MATERIAL

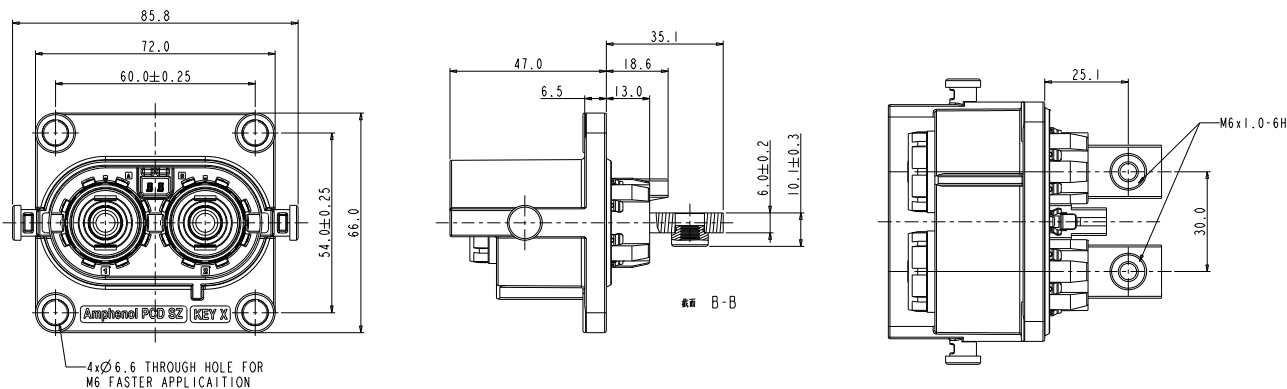
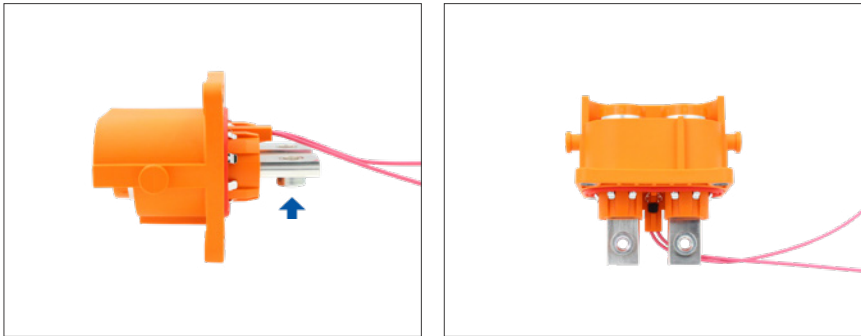
Contacts Copper alloy with silver
plating

Housing PA66 + GF

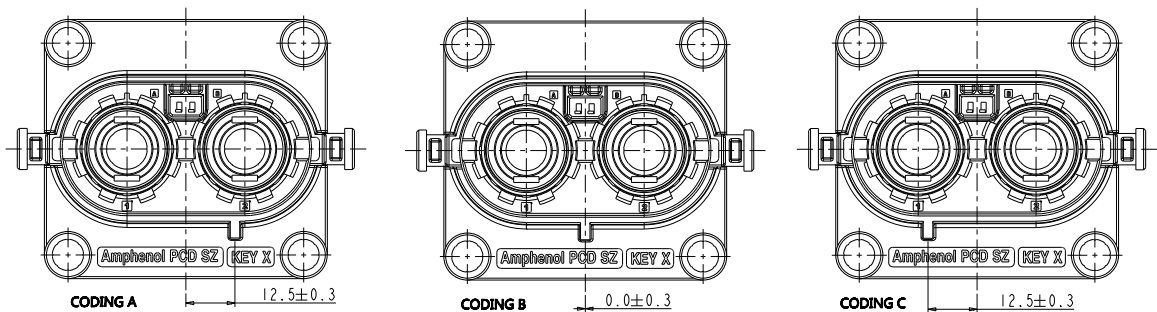
Seal SR

2 PIN RECEPTACLE

Signal PIN and TPA need to be purchased separately.

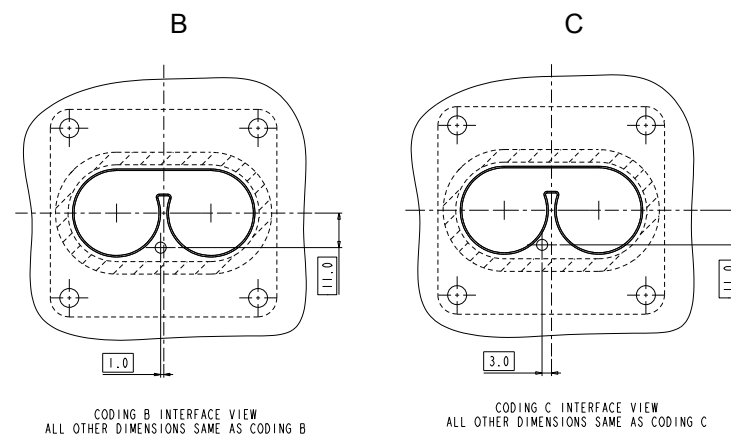
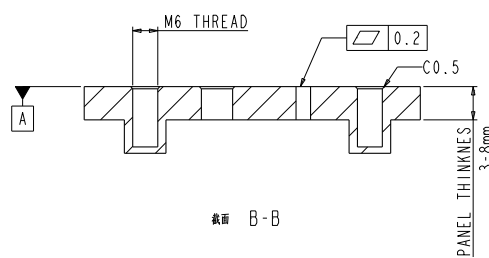
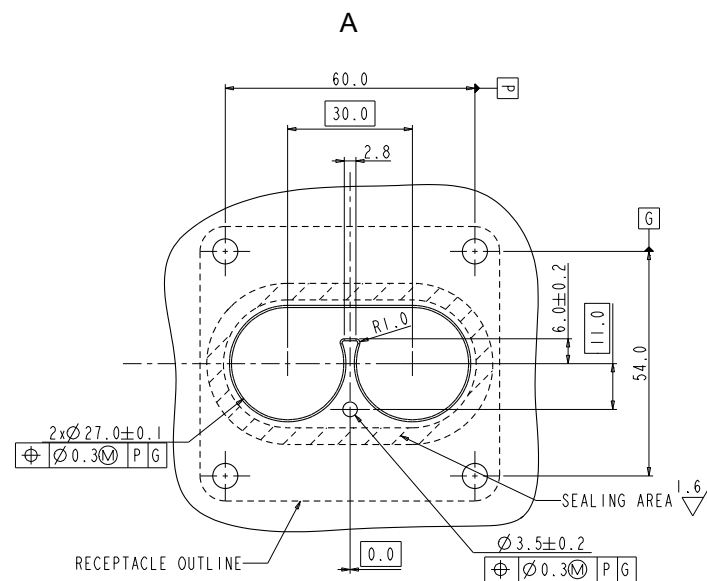


INSERT ORIENTATIONS

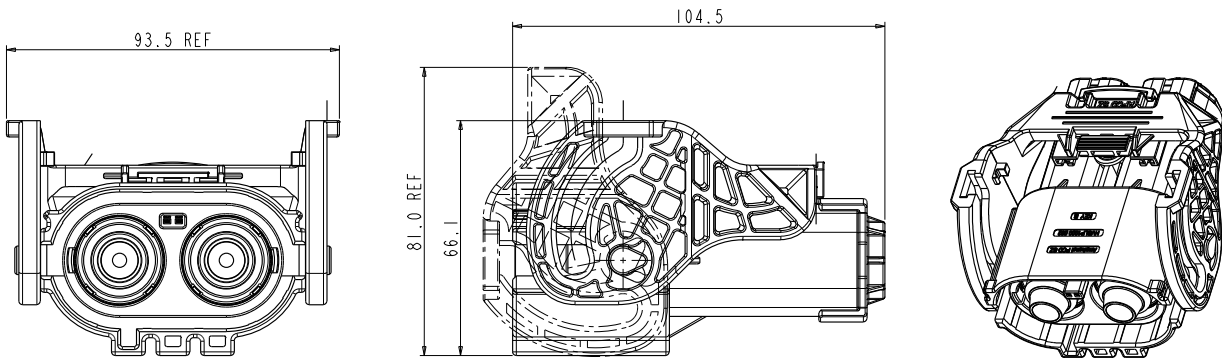


	Coding A	Coding B	Coding C
P/N	HVSL P 1000 02 2 A	HVSL P 1000 02 2 B	HVSL P 1000 02 2 C

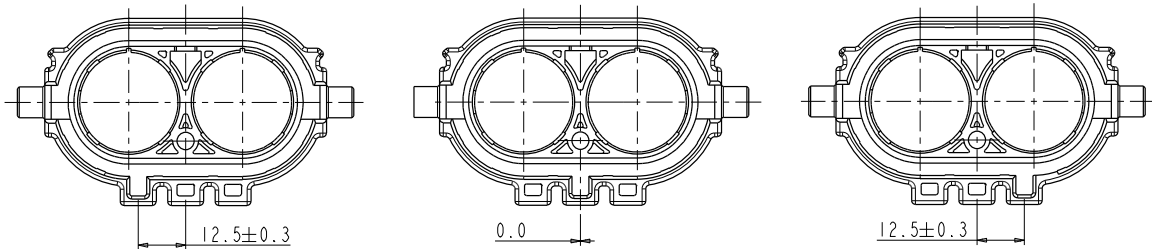
PANEL MOUNTING DIMENSIONS



2 PIN STRAIGHT PLUG

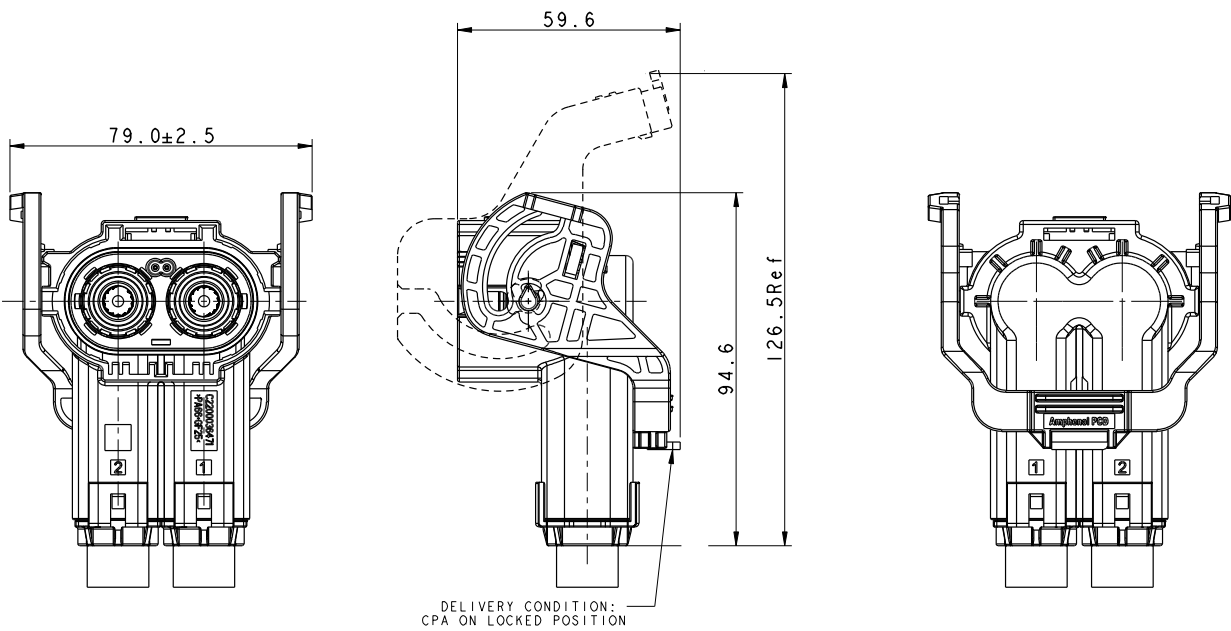
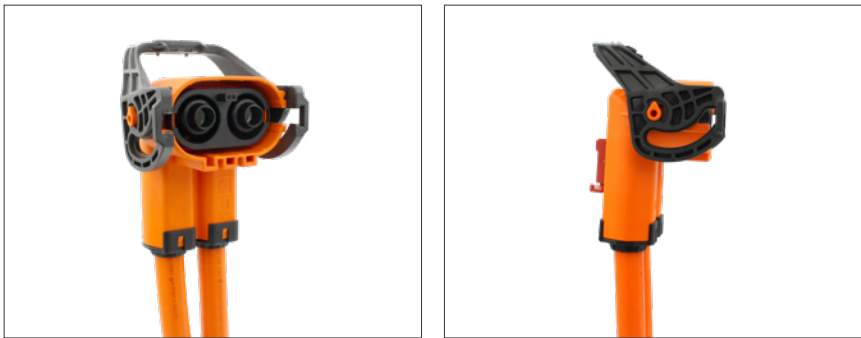


INSERT ORIENTATIONS

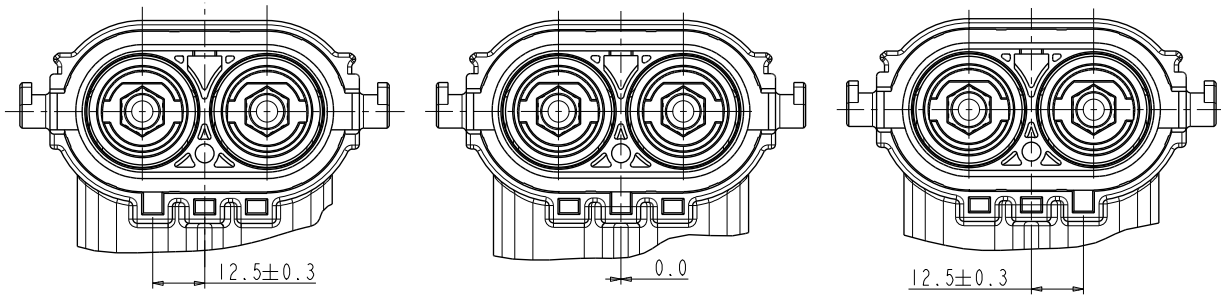


	Coding A	Coding B	Coding C
P/N	HVSL P 1000 06 2 A	HVSL P 1000 06 2 B	HVSL P 1000 06 2 C

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

	HVSL P 1000	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

	HVSL P 1000	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

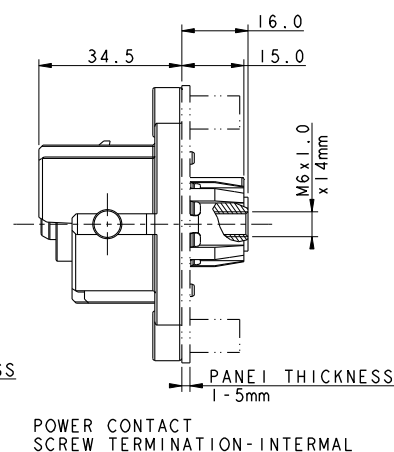
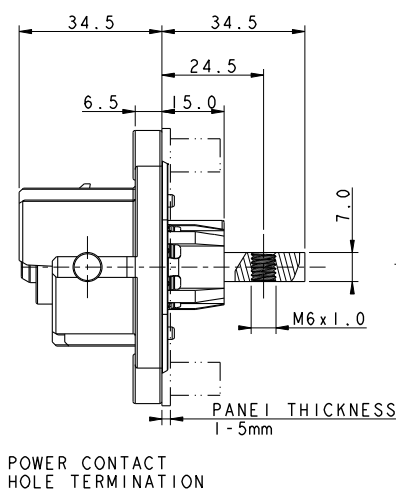
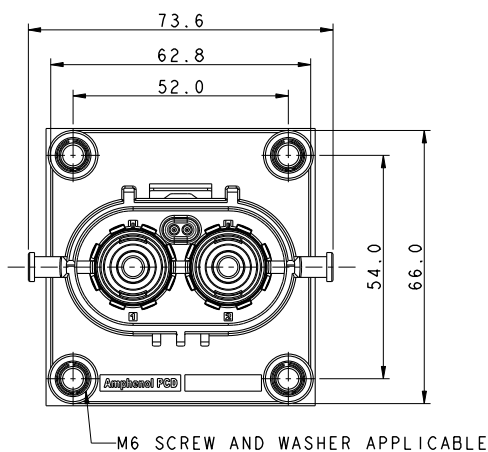
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

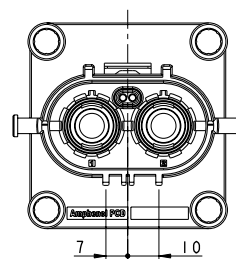
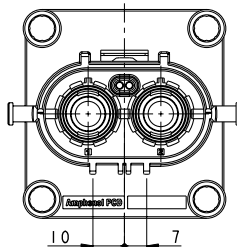
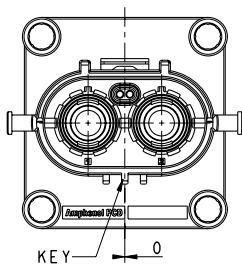
MATERIAL

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

2 PIN RECEPTACLE



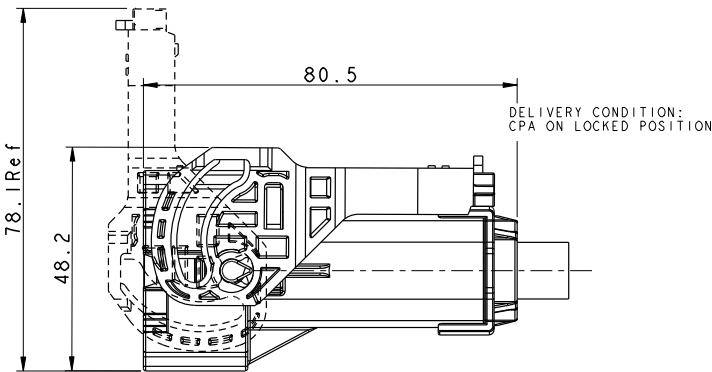
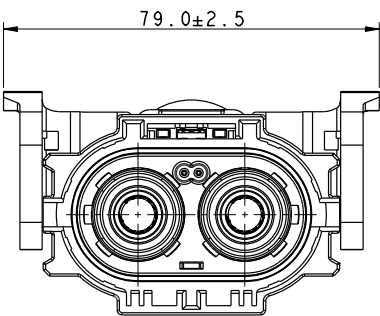
INSERT ORIENTATIONS



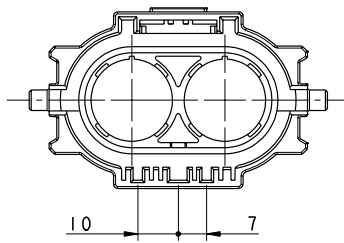
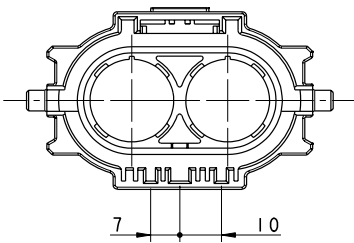
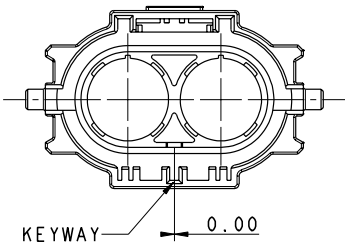
	Coding A	Coding B	Coding C
P/N	HVSL800 02 2 A	HVSL800 02 2 B	HVSL800 02 2 C

Excel|Mate S
(HVSL 800)

2 PIN STRAIGHT PLUG

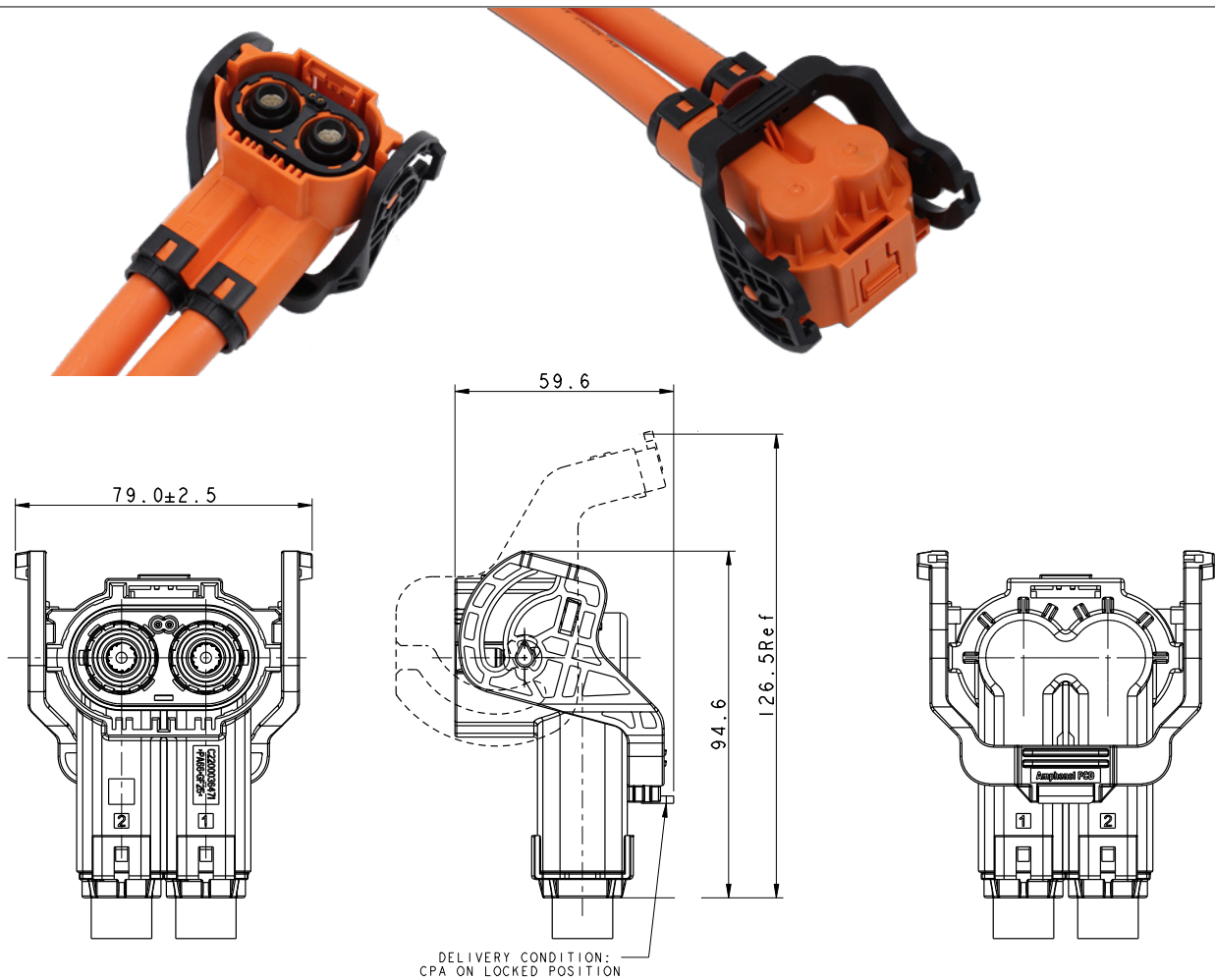


INSERT ORIENTATIONS

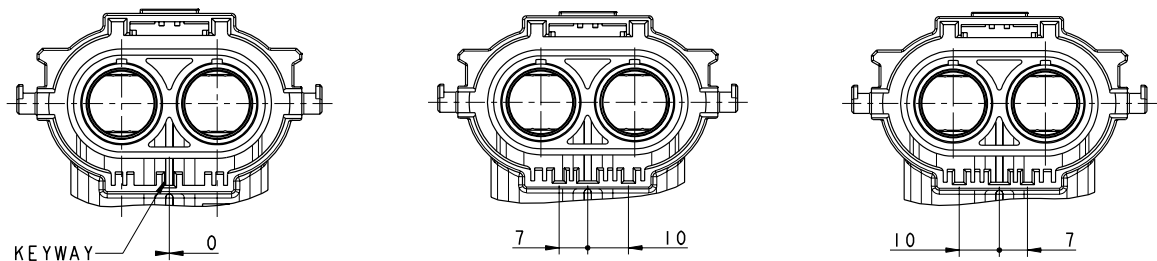


	Coding A	Coding B	Coding C
P/N	HVSL800 06 2 A	HVSL800 06 2 B	HVSL800 06 2 C

2 PIN RIGHT ANGLE PLUG

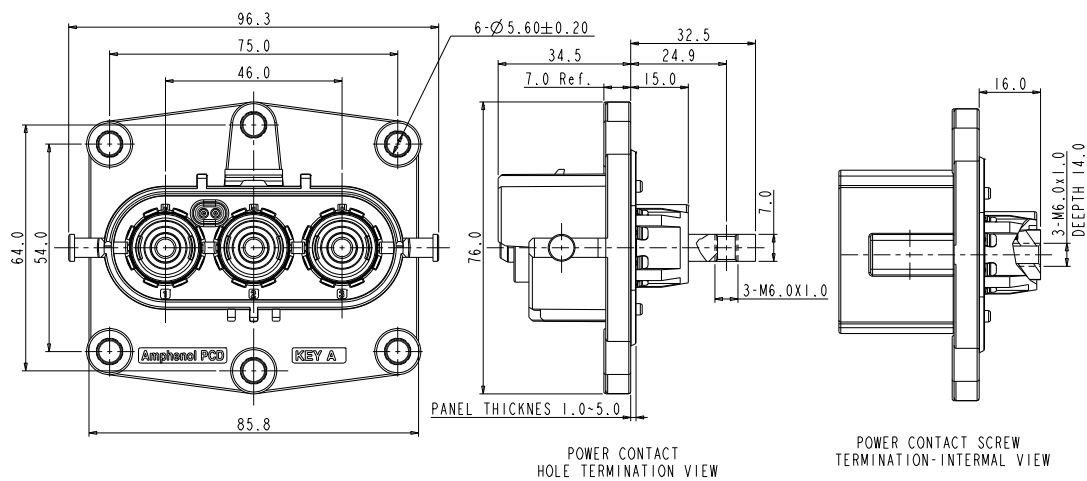


INSERT ORIENTATIONS

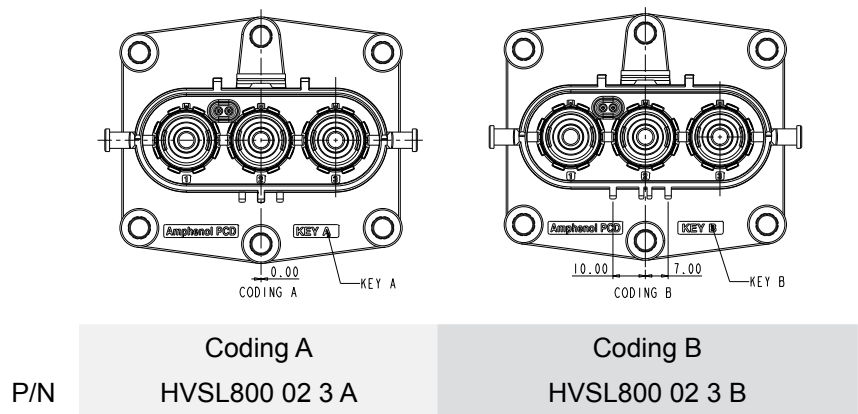


	Coding A	Coding B	Coding C
P/N	HVSL800 08 2 A	HVSL800 08 2 B	HVSL800 08 2 C

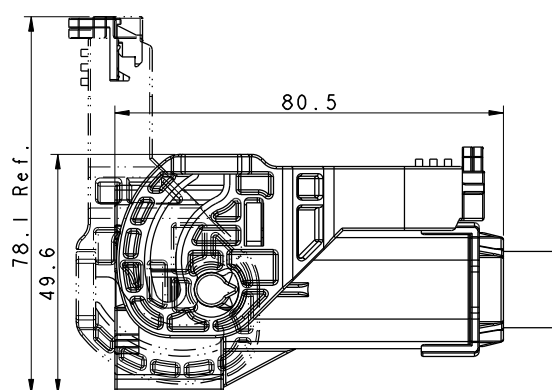
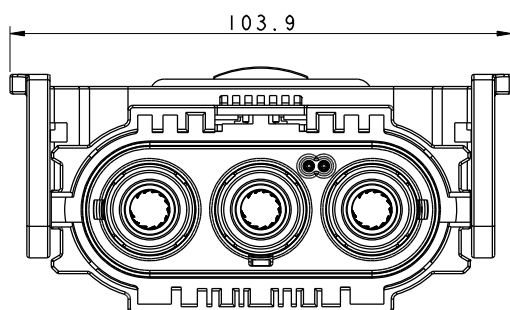
3 PIN RECEPTACLE



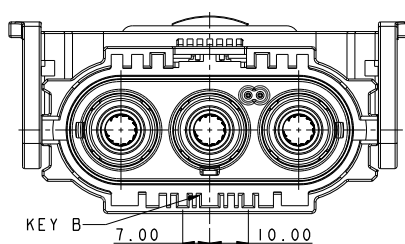
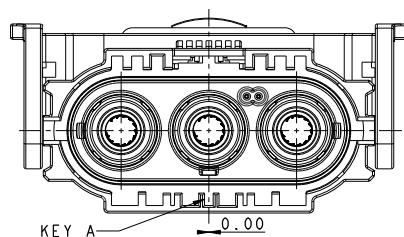
INSERT ORIENTATIONS



3 PIN STRAIGHT PLUG



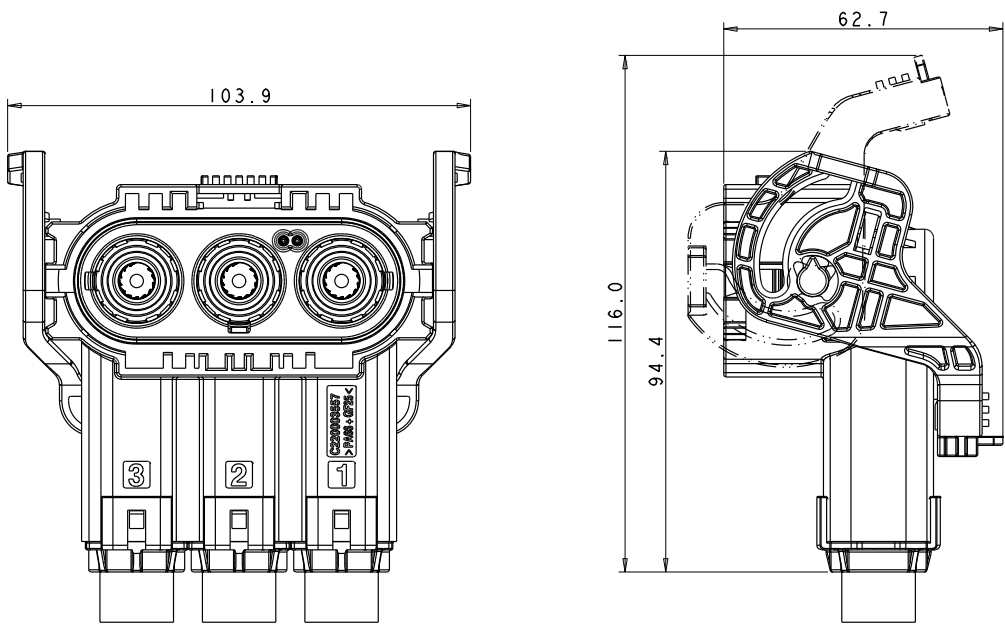
INSERT ORIENTATIONS



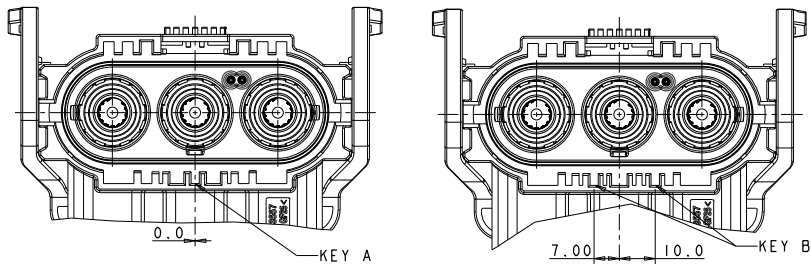
	Coding A	Coding B
P/N	HVSL800 06 3 A	HVSL800 06 3 B

Excel|Mate S
(HVSL 800)

3 PIN RIGHT ANGLE PLUG

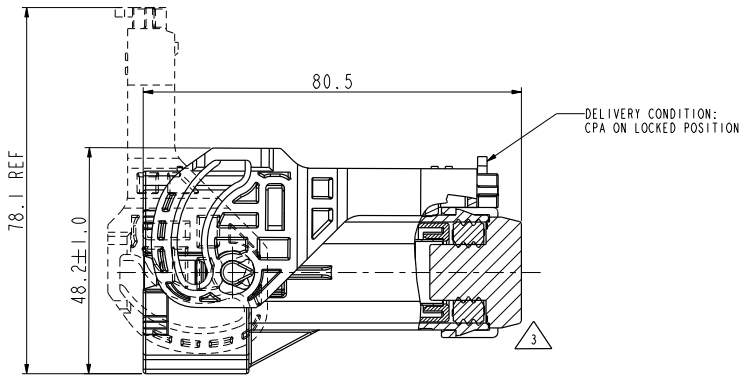
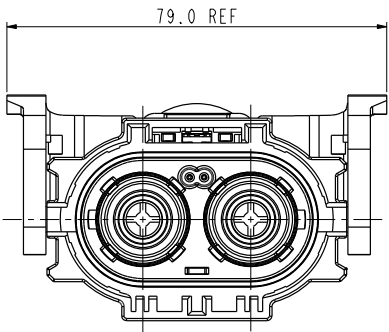


INSERT ORIENTATIONS



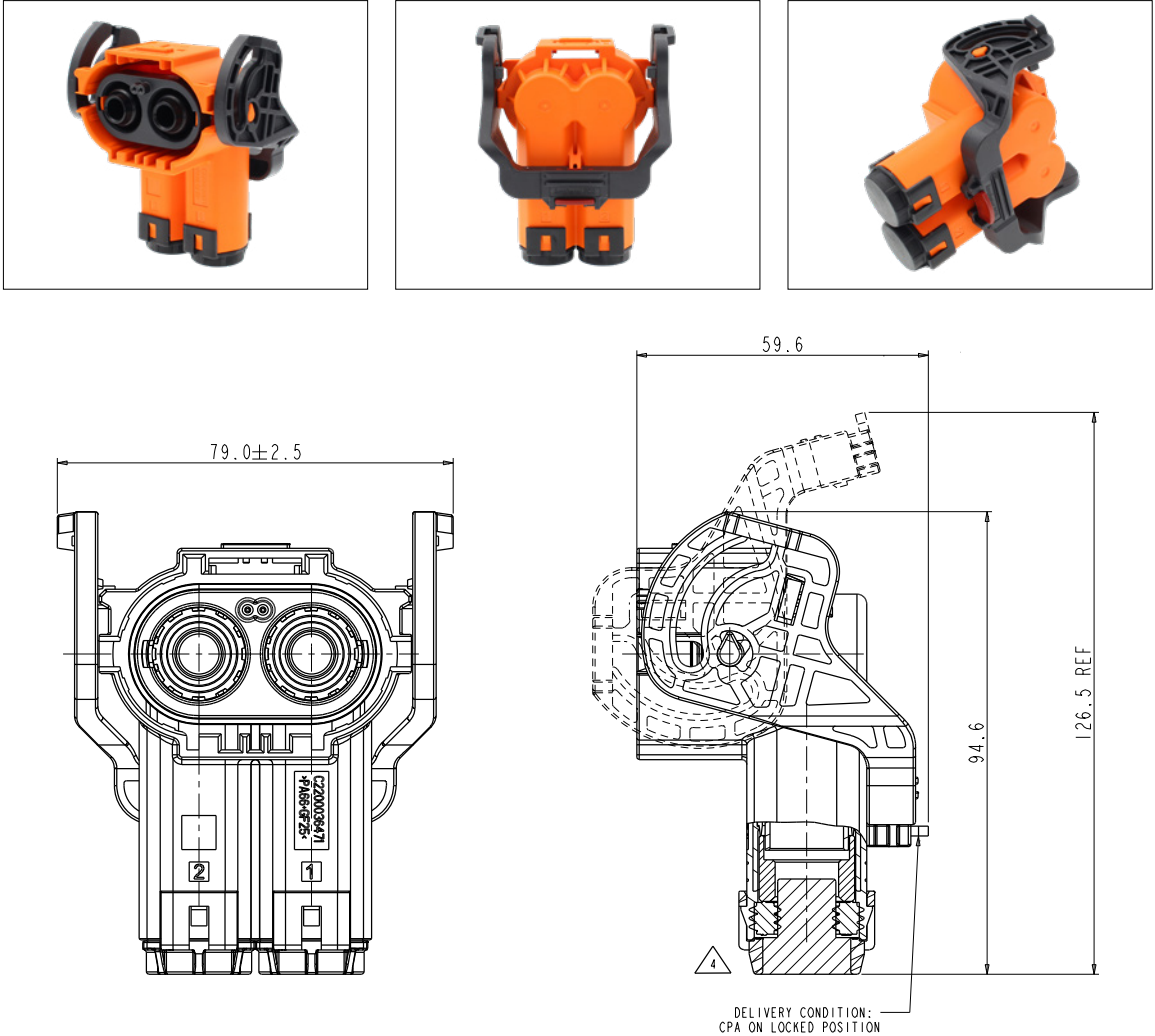
	Coding A	Coding B
P/N	HVSL800 08 3 A	HVSL800 08 3 B

DUMMY STRAIGHT PLUG



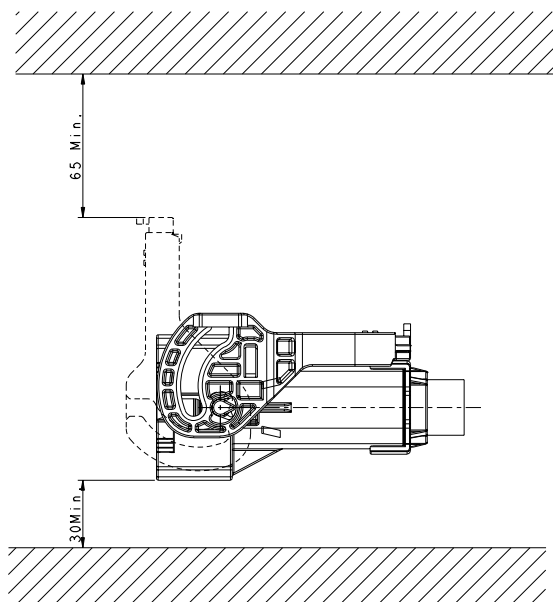
	HVSL800	06	2	A	0	S1
Product type:						
06: Straight plug						
Position:						
2: 2 position						
Coding / Alternate position:						
A: Coding A						
B: Coding B						
C: Coding C						
Interlock:						
0: Without interlock 1: With interlock						
Dummy plug:						
S1						

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

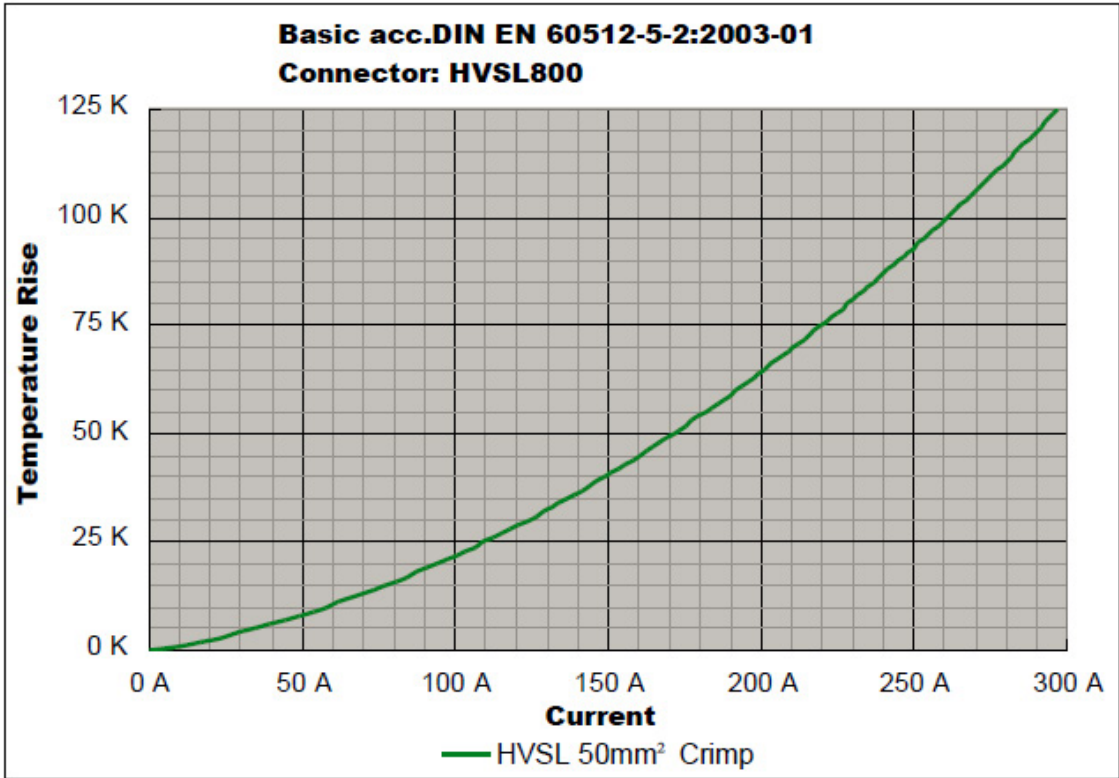
	HVSL800	06	2	A	0	50
Product type: 06: Straight plug 08: Right angle plug						
Position: 2: 2 position 3: 3 position						
Coding / Alternate position: A: Coding A B: Coding B C: Coding C (Only for 2 position)						
Interlock: 0: Without interlock 1: With interlock						
Cable size: 25: 25mm ² cable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

HOW TO ORDER: RECEPTACLE

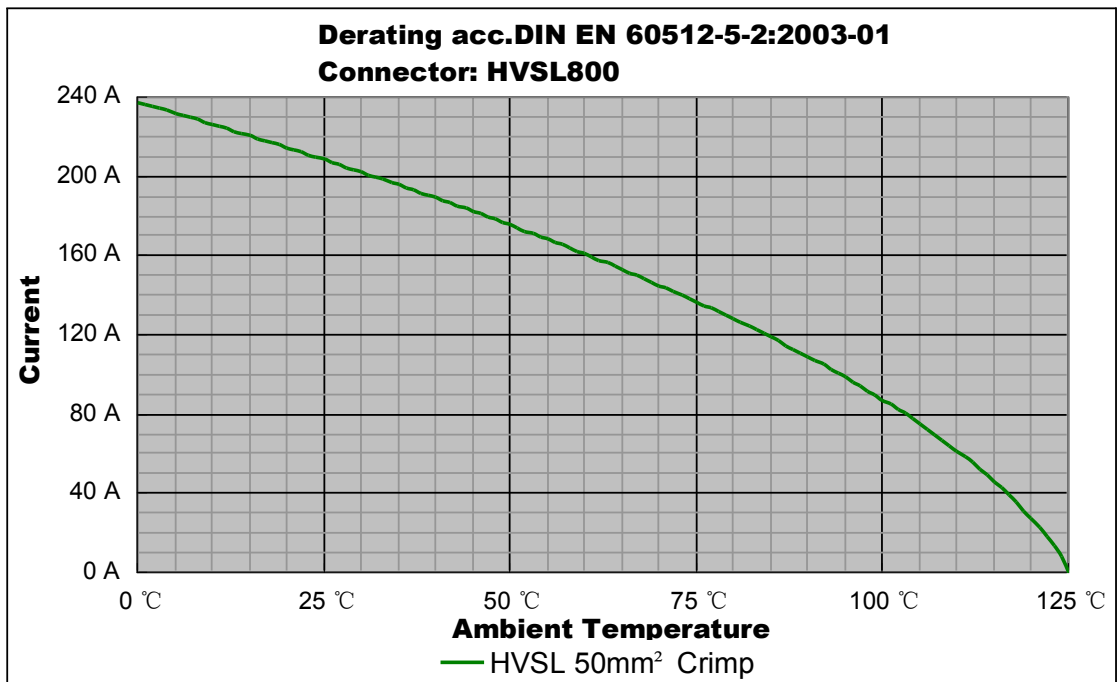
	HVSL800	02	2	A	0	H6
Product type: 02: Box mounted receptacle						
Position: 2: 2 position 3: 3 position						
Coding / Alternate position: A: Coding A B: Coding B C: Coding C (Only for 2 positions)						
Interlock: 0: Without interlock 1: With interlock						
Cable size: H6: Copper bar, OT terminal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

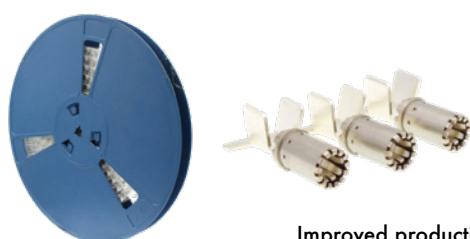
No tool required to unmate

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

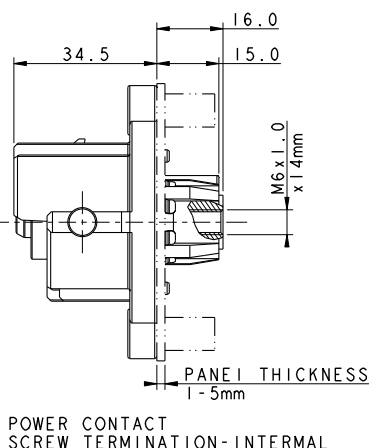
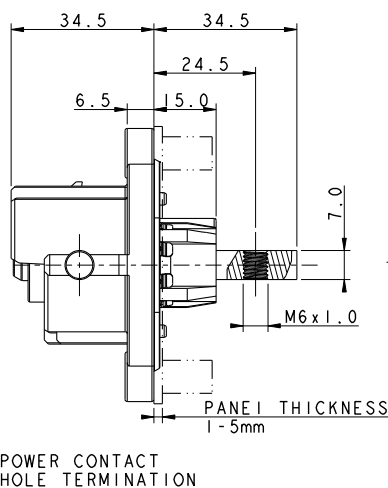
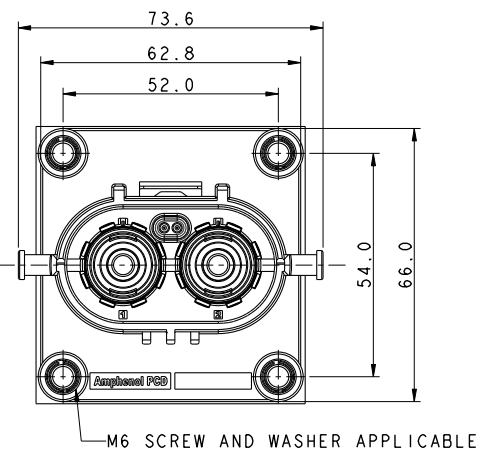
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

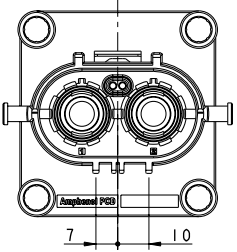
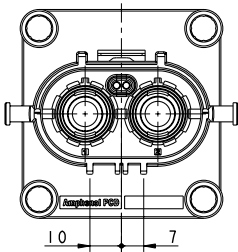
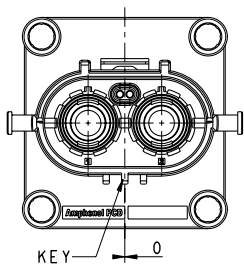
MATERIAL

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

2 PIN RECEPTACLE

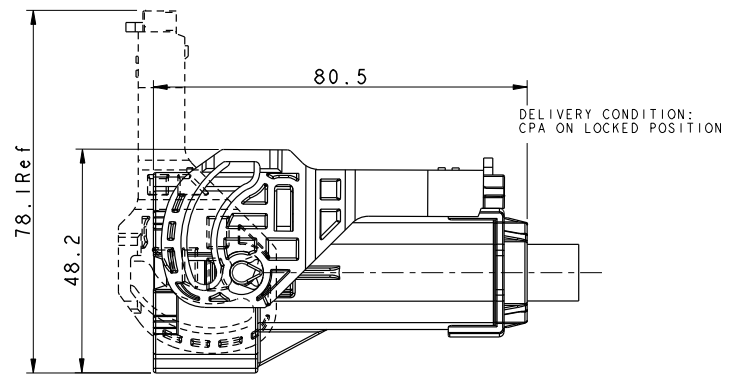
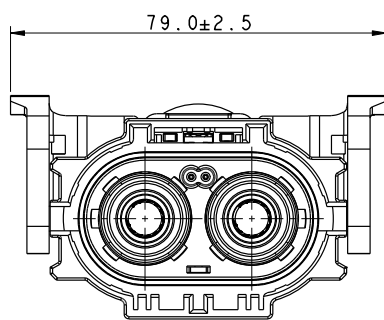


INSERT ORIENTATIONS

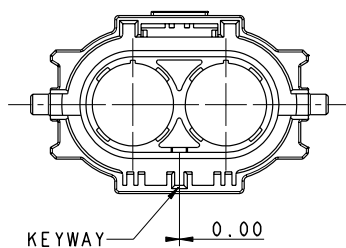


	Coding A	Coding B	Coding C
P/N	HVSL800 02 2 A	HVSL800 02 2 B	HVSL800 02 2 C

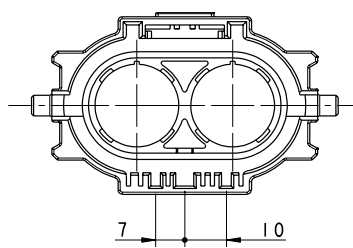
2 PIN STRAIGHT PLUG



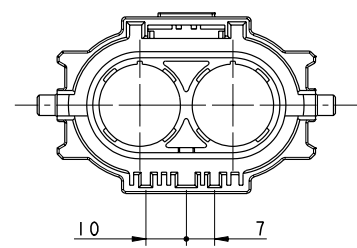
INSERT ORIENTATIONS



KEYWAY 0.00



7 10



10 7

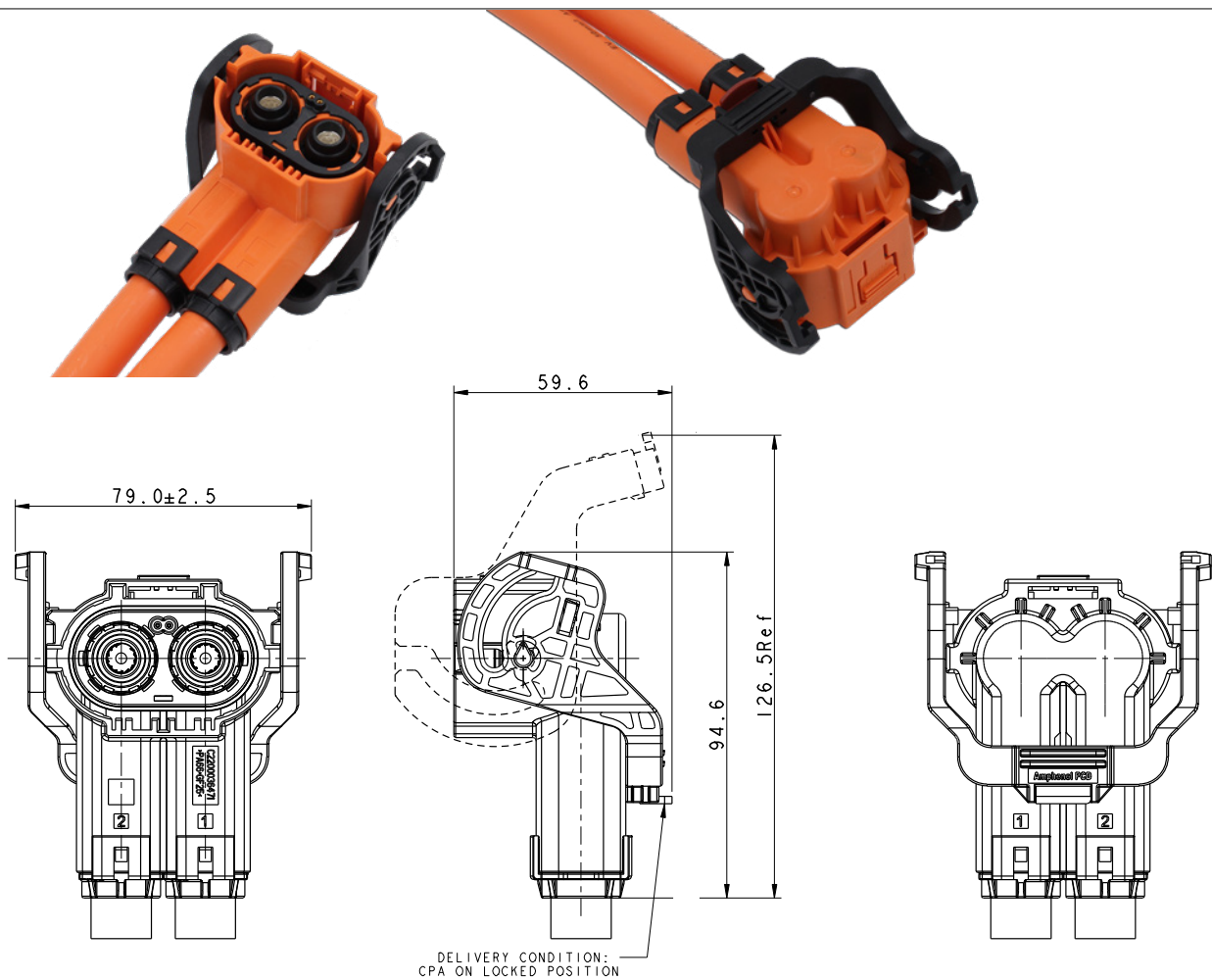
P/N

Coding A
HVSLP800 06 2 A

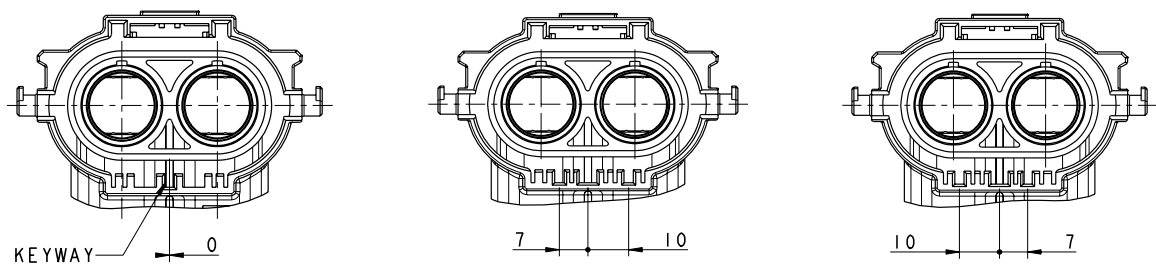
Coding B
HVSLP800 06 2 B

Coding C
HVSLP800 06 2 C

2 PIN RIGHT ANGLE PLUG

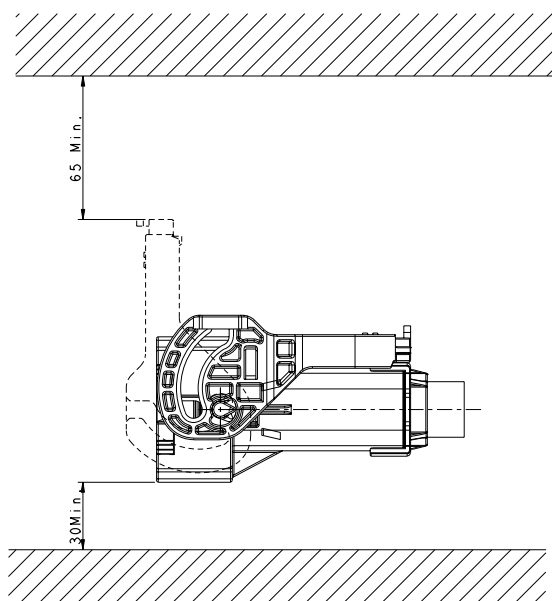


INSERT ORIENTATIONS



	Coding A	Coding B	Coding C
P/N	HVSLP800 08 2 A	HVSLP800 08 2 B	HVSLP800 08 2 C

INSTALLATION CLEARANCE



EXTRACTION TOOL FOR RECEPTACLE HVIL

HVIL-contact Extraction tool: HVTOOL11R



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

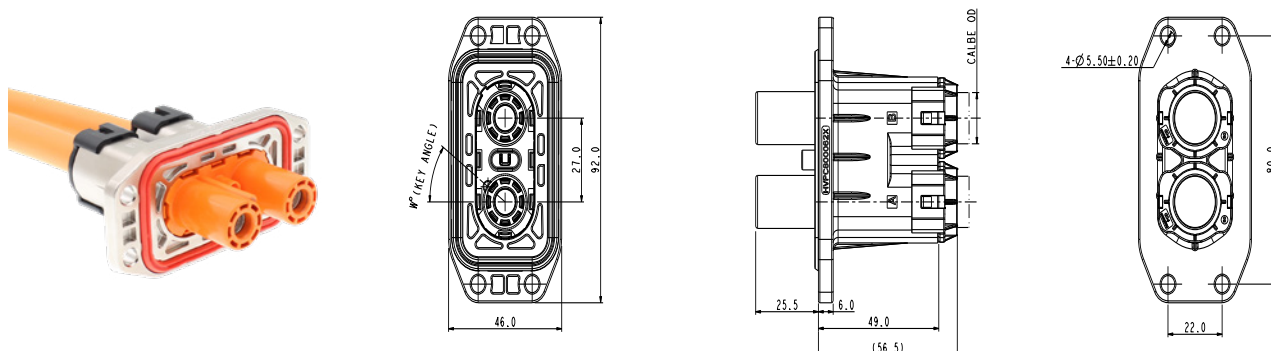


KEY FEATURES

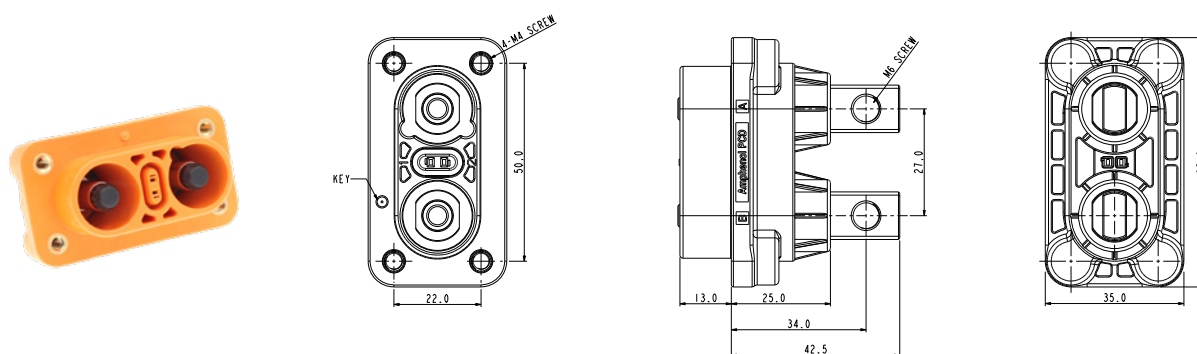
- Easy to install, reliable connection
- Sealing, IP67, IP6K9K (mated)
- Multiple coding positions
- 360° shielded from wire to device
- Economical

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

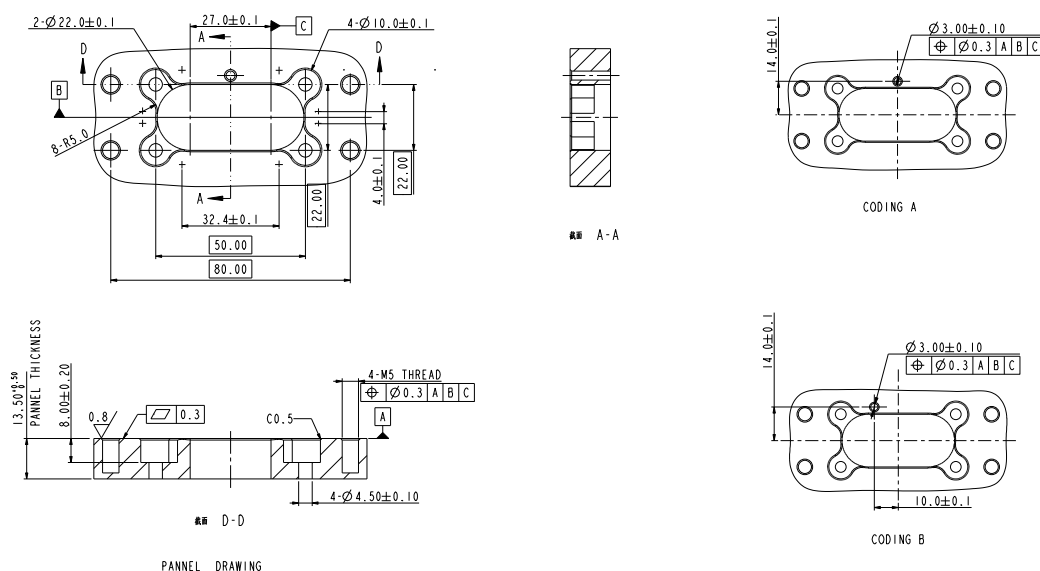
HVPC 800 PLUG



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)

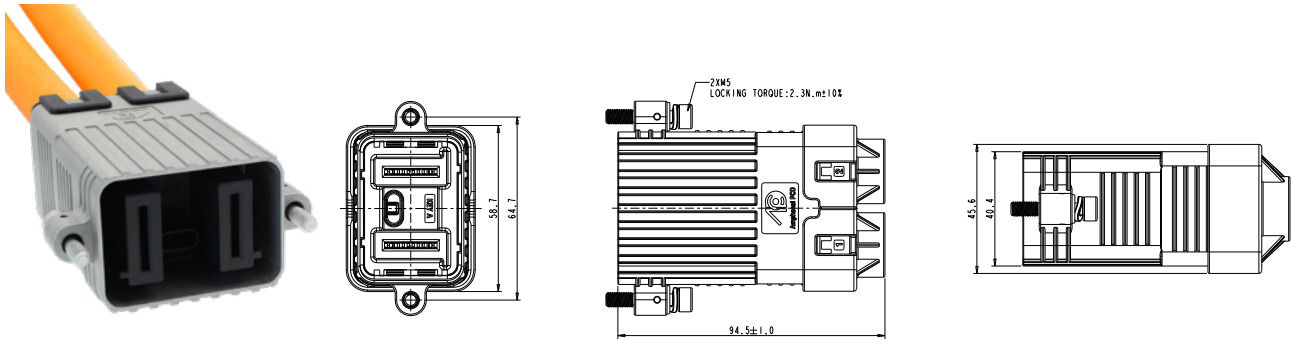
Multiple coding positions

360° shielded from wire to device

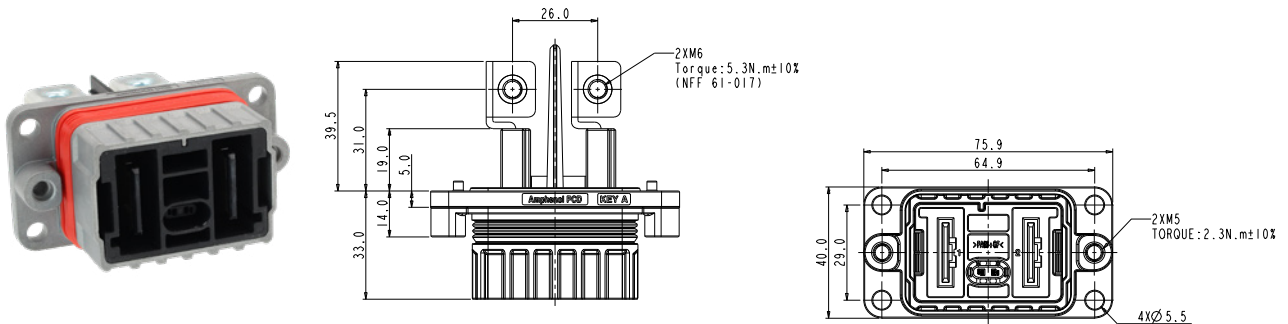
Economical

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

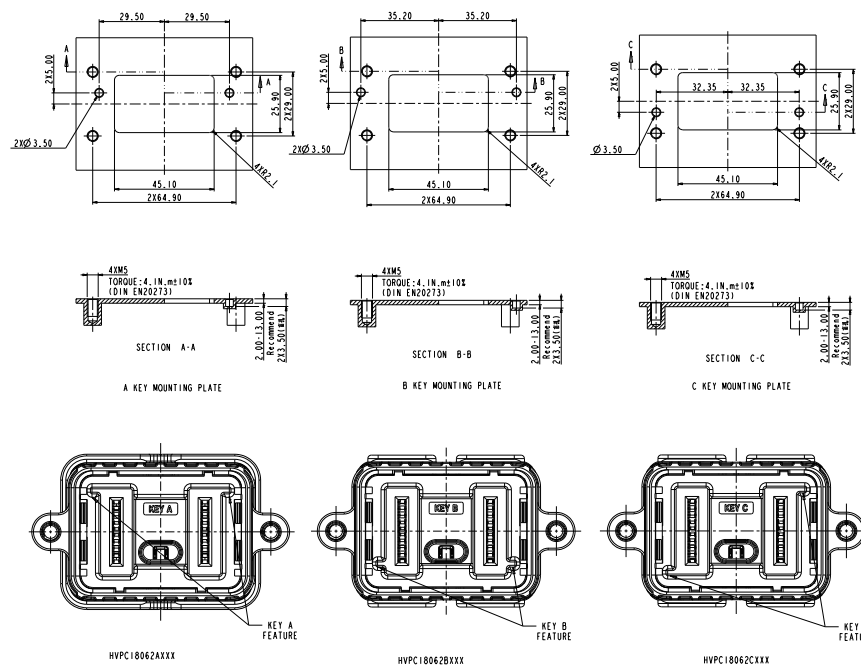
HVPC 18 PLUG



HVPC 18 RECEPTACLE



PANEL MOUNTING DIMENSIONS



HOW TO ORDER: PLUG

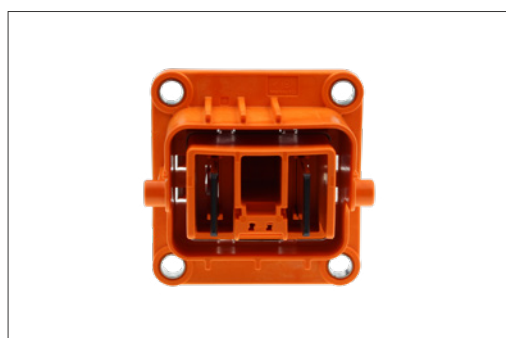
	HVPC 18	06	2	A	1	35
Product type:		06: Plug				
Position:		2: 2 positions				
Coding:		A: Coding A B: Coding B C: Coding C				
HVIL:		0: Without HVIL 1: With HVIL				
Wire type:		35: 35mm ² shielded wire 50: 50mm ² shielded wire 70: 70mm ² shielded wire				

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 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

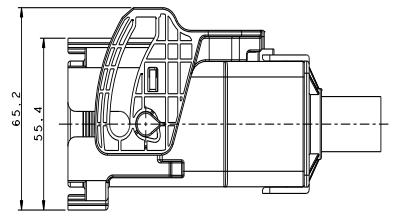
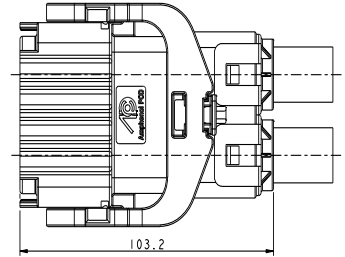
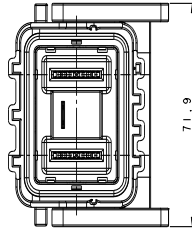
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

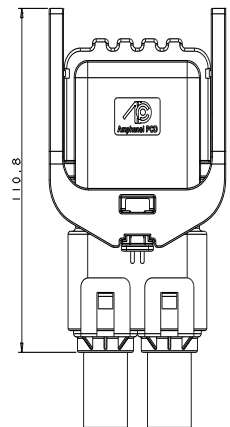
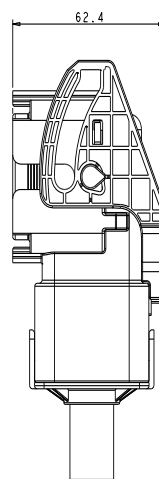
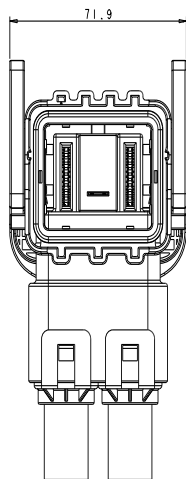
MATERIAL

Housing	Thermoplastics
Contacts	Copper alloy, silver plating
Cables	Ultrasonic welding with copper wiring (aluminium optional)

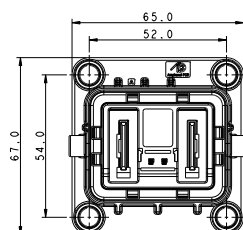
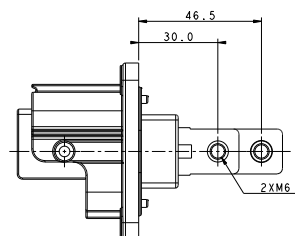
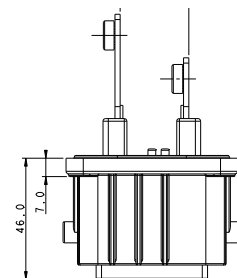
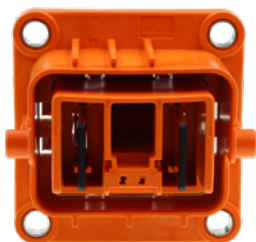
HVSLF 18 STRAIGHT PLUG



HVSLF 18 RIGHT-ANGLE PLUG



HVSLF 18 RECEPTACLE



HOW TO ORDER (HVSLF 18)

HOW TO ORDER: PLUGS

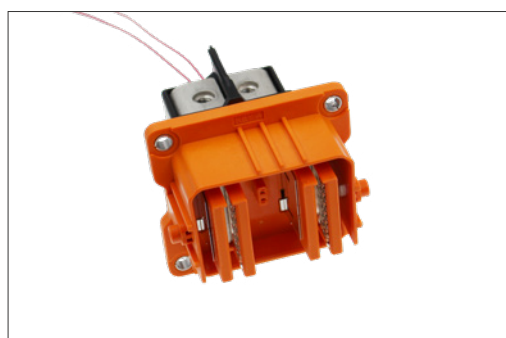
	HVSLF 18	06	2	A	1	35
Product type:						
06: Straight Plug						
Position:						
2: 2 positions						
Coding:						
A: Coding A C: Coding C						
B: Coding B D: Coding D						
HVIL:						
0: Without HVIL						
1: With HVIL						
Wire type:						
25: 25mm ² shielded wire						
50: 50mm ² shielded wire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

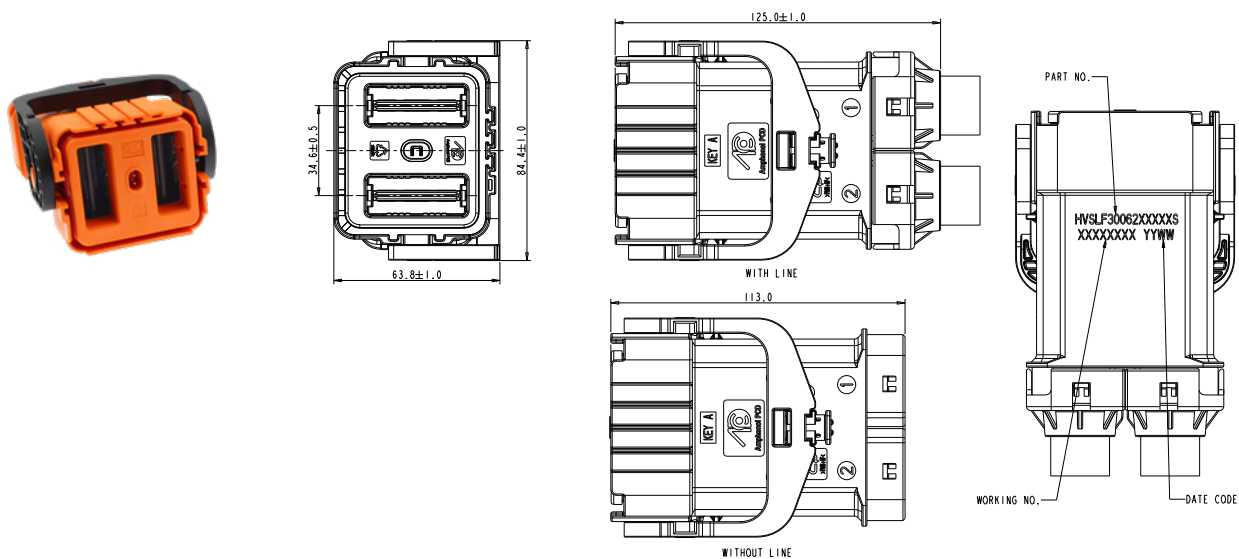
Multiple coding positions

360° shielded from wire to device

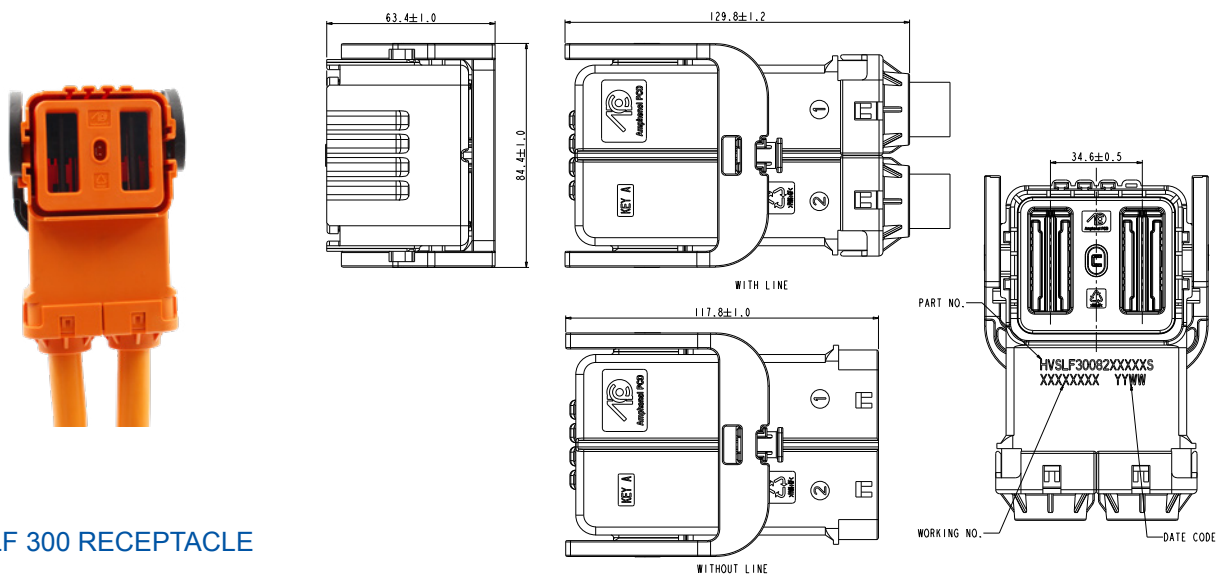
Economical

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)

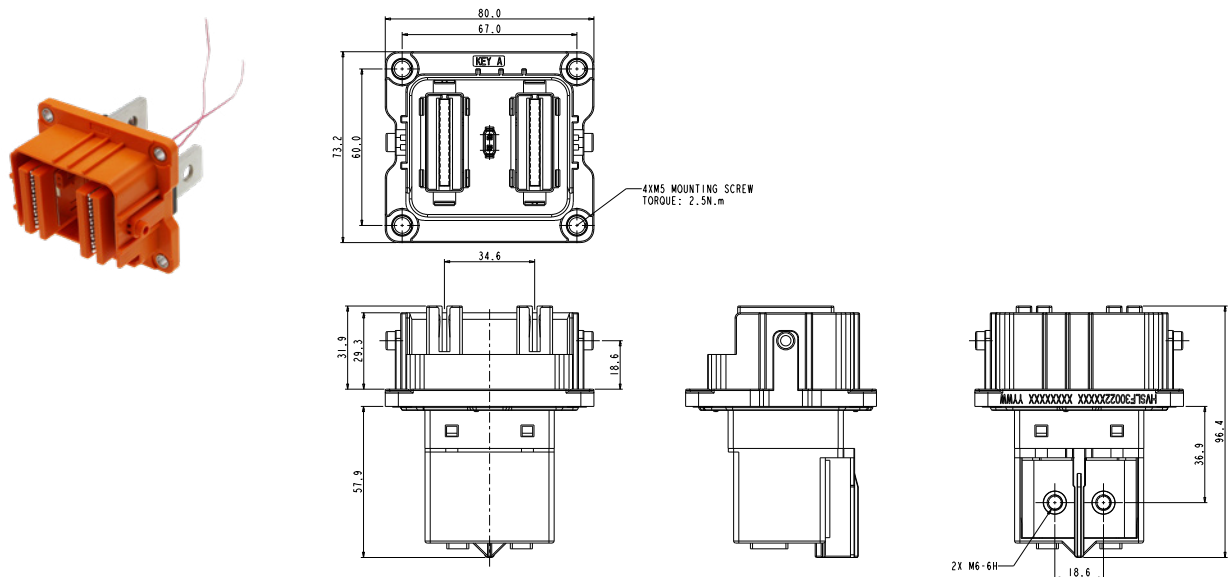
HVSLF 300 STRAIGHT PLUG



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

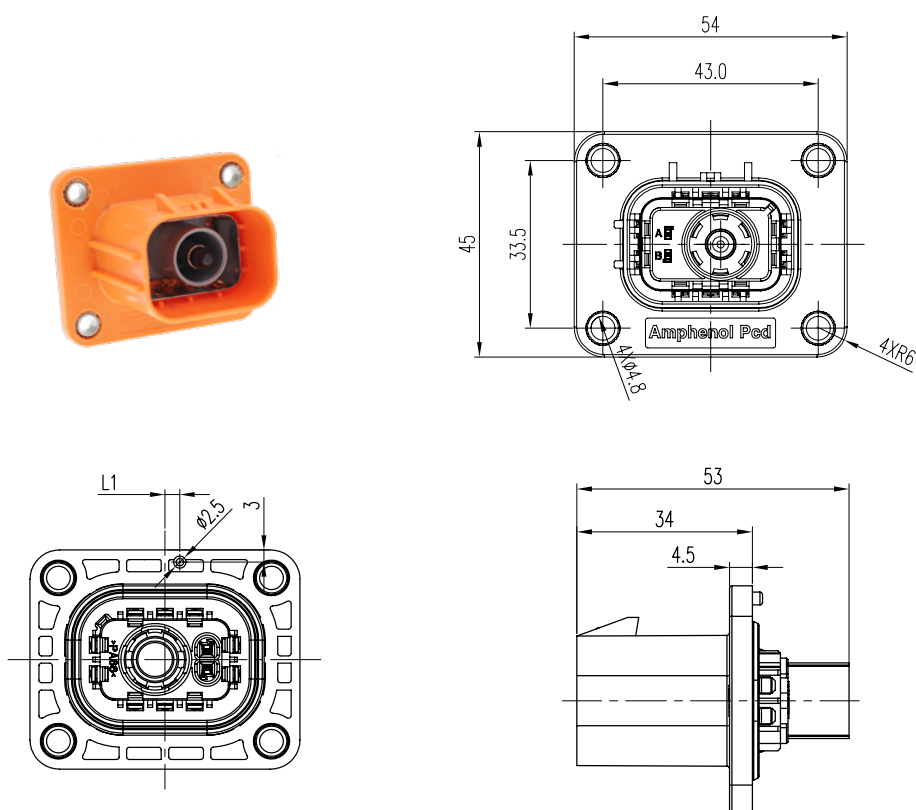
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

MATERIAL

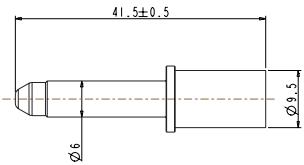
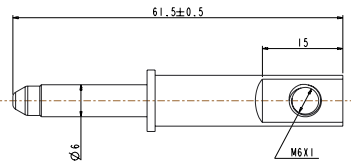
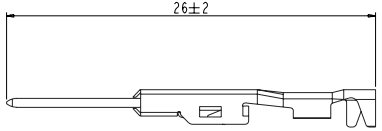
Terminals	Copper/copper alloy with silver plating
Housing	PA66 + GF

RECEPTACLE



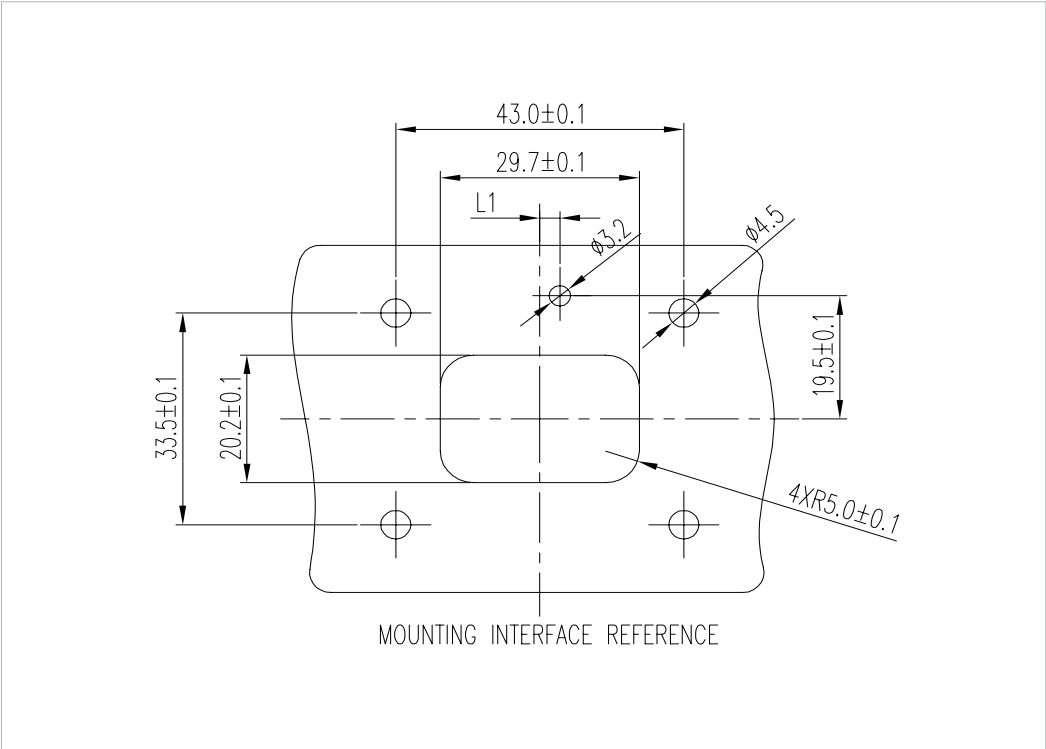
CONTACTS

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

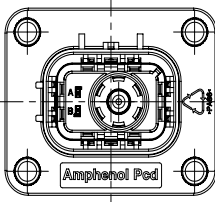
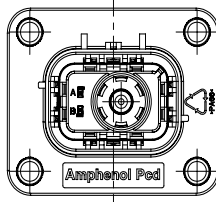
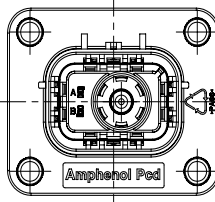
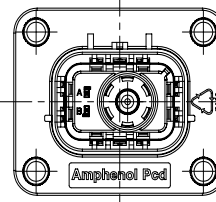
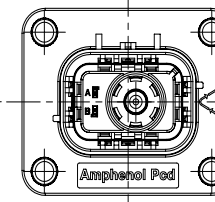
Pin contact: crimping	Pin contact: end with bus-bar	Pin signal contact (HVIL)
P/N: C420003621	P/N: C420003625	P/N: C310003613S
		
25mm ² unshielded wire	OT terminal	0.5mm ² unshielded wire

PANEL MOUNTING DIMENSIONS

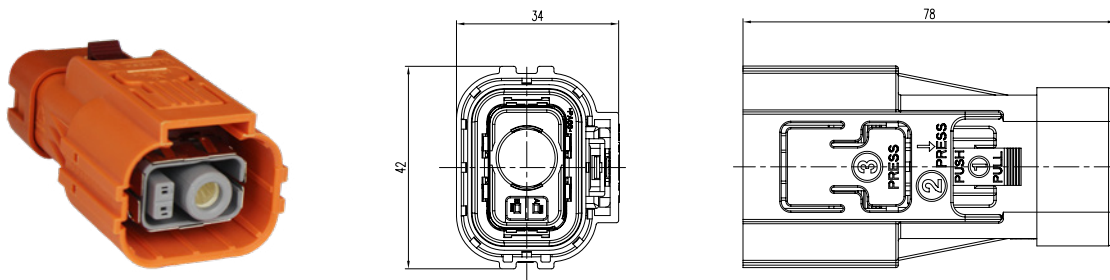
CODING	A	B	C	D	E
L1 (Panel mount)	0	-3	-6	3	6



INSERT ORIENTATIONS

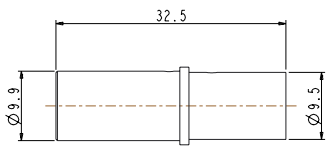
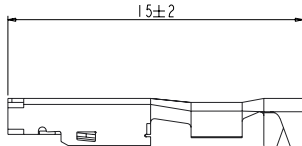
					
	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL600 02 A	HVSL600 02 B	HVSL600 02 C	HVSL600 02 D	HVSL600 02 E

PLUG

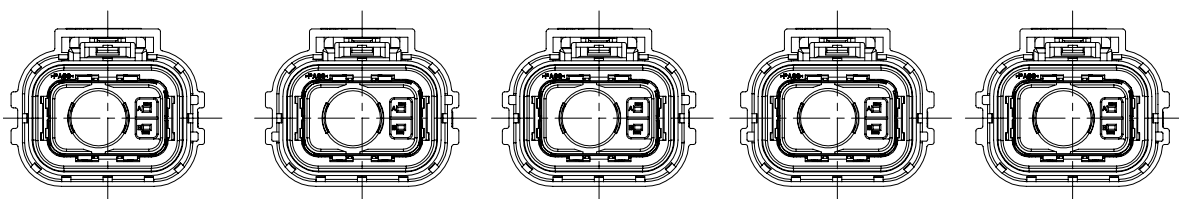


CONTACTS

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)

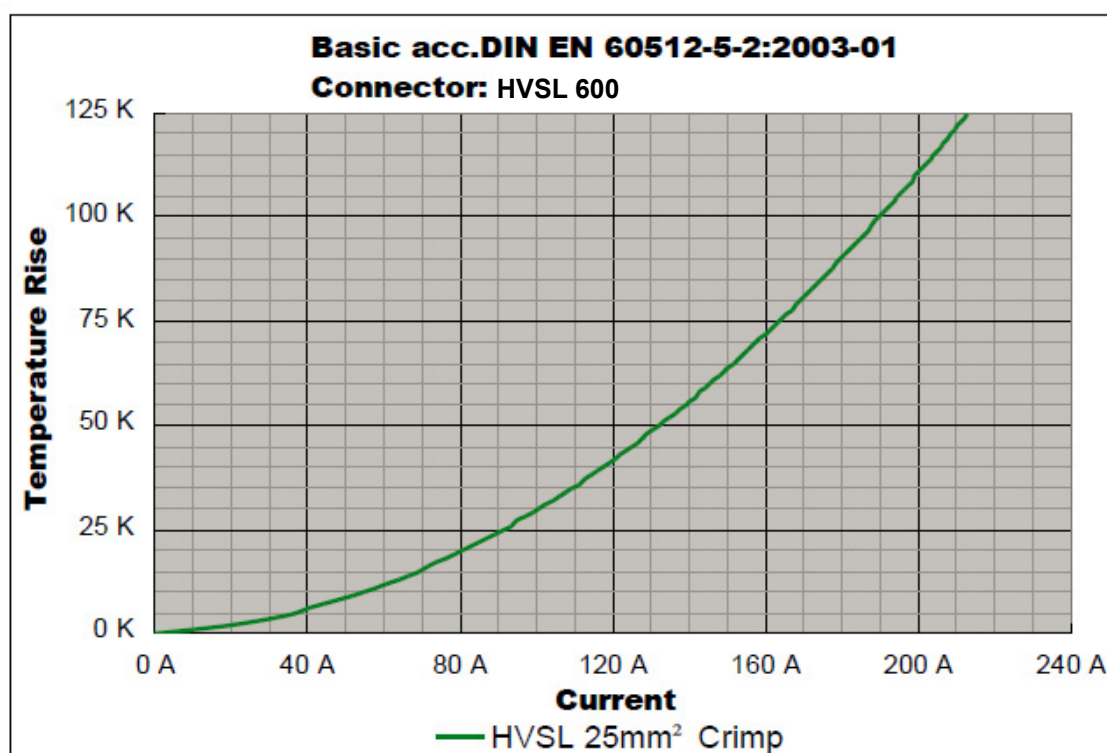
HOW TO ORDER: PLUG

	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: 25mm ²						
Cable OD:	10: 10 ± 0.5mm 11: 11 ± 0.5mm 12: 12 ± 0.5mm 13: 13 +0/-0.5mm						

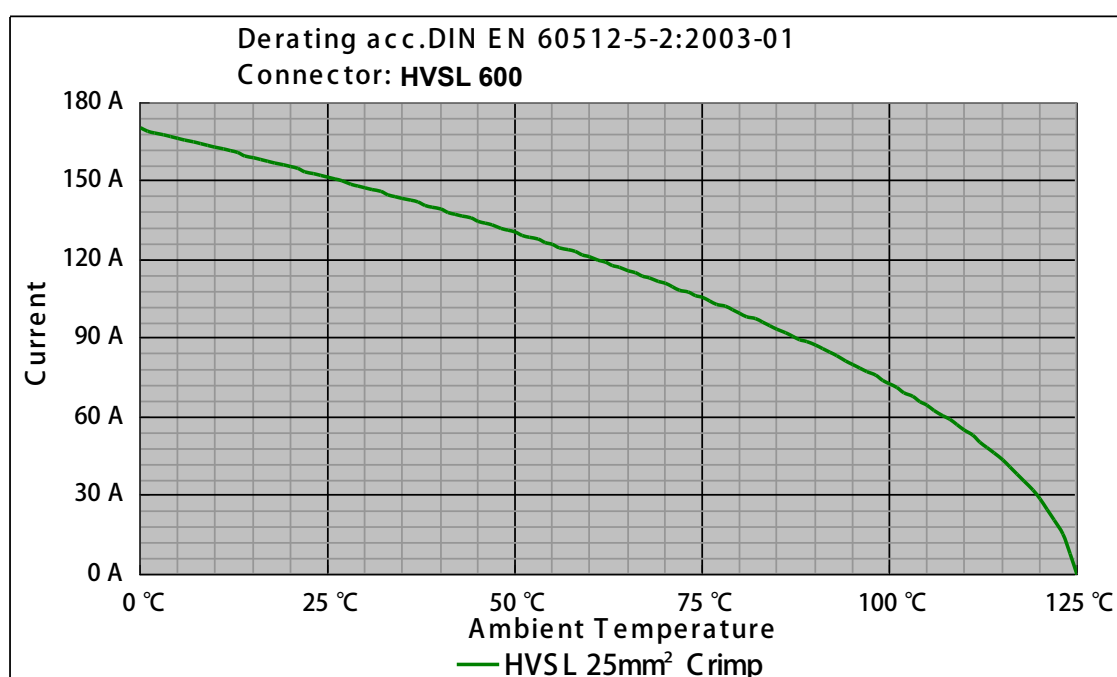
HOW TO ORDER: RECEPTACLE

	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: 25mm ² 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

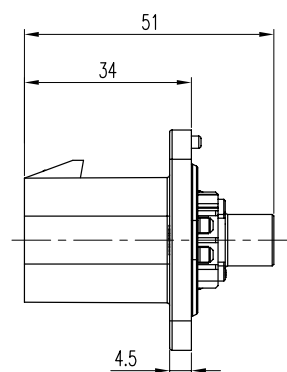
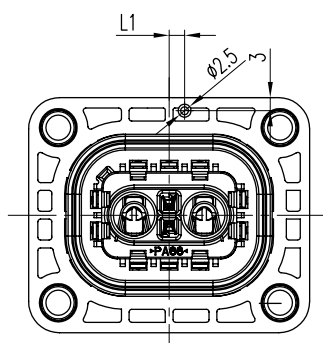
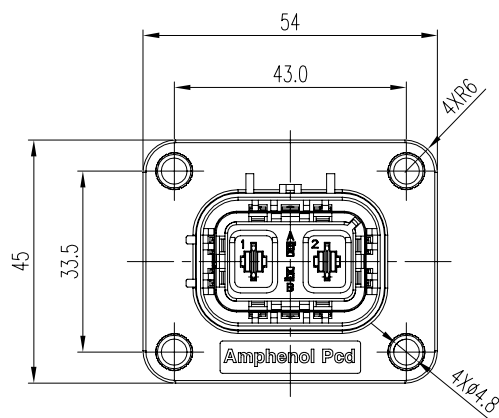
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

MATERIAL

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

RECEPTACLE



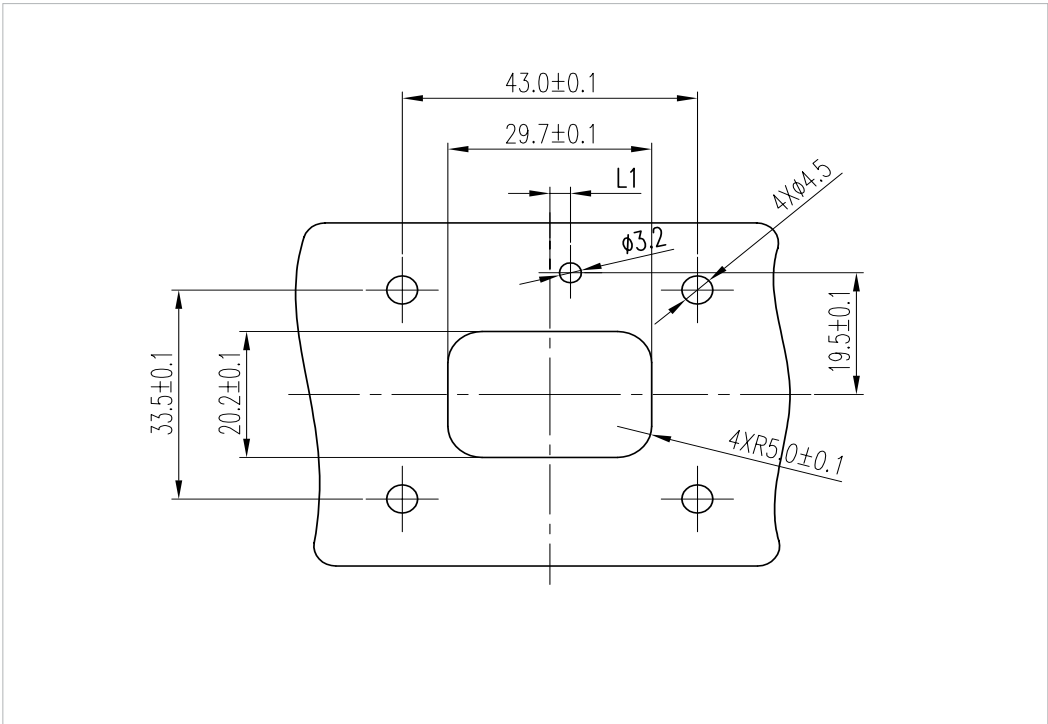
CONTACTS

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

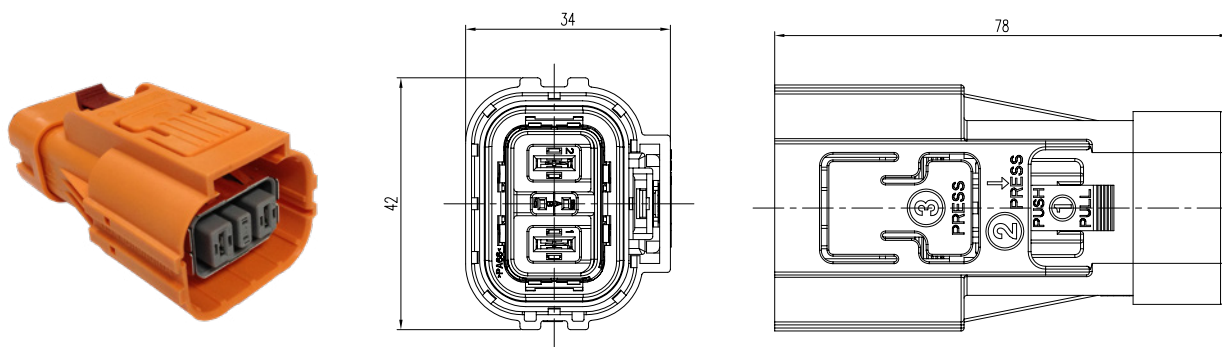
CODING	A	B	C	D	E
L1 (Panel mount)	0	-3	-6	3	6



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

HOW TO ORDER (HVSL 630)

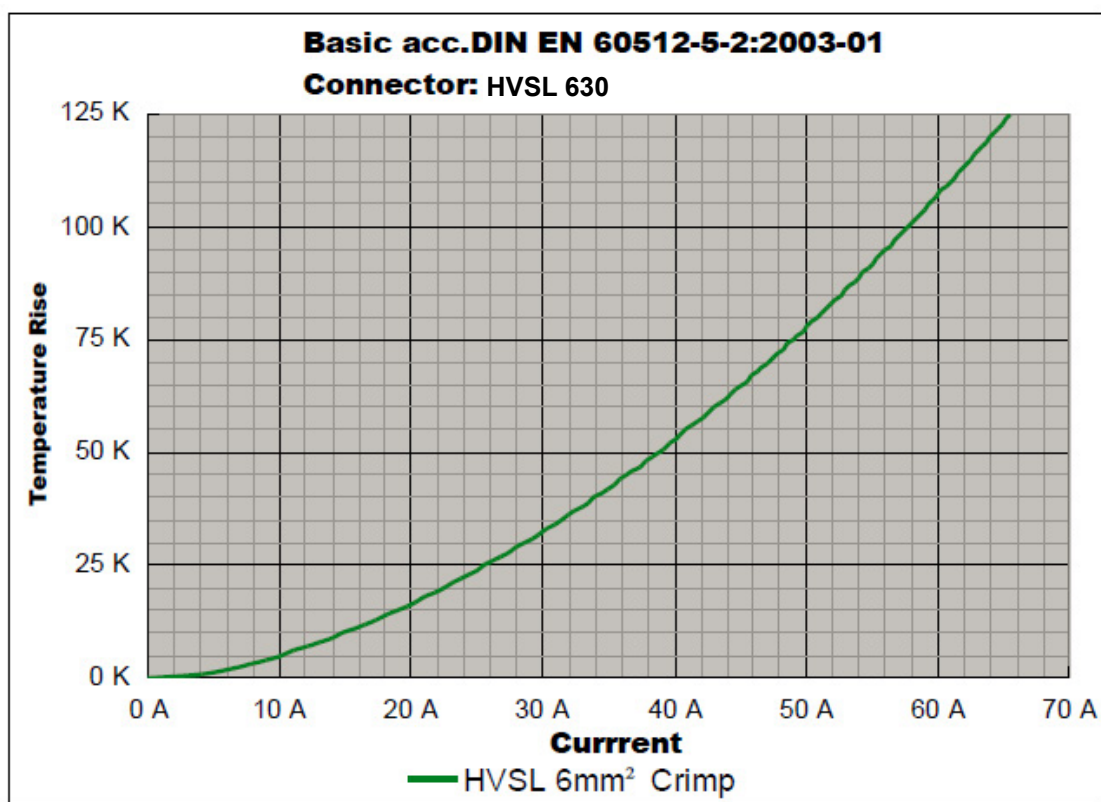
HOW TO ORDER: PLUG

	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						

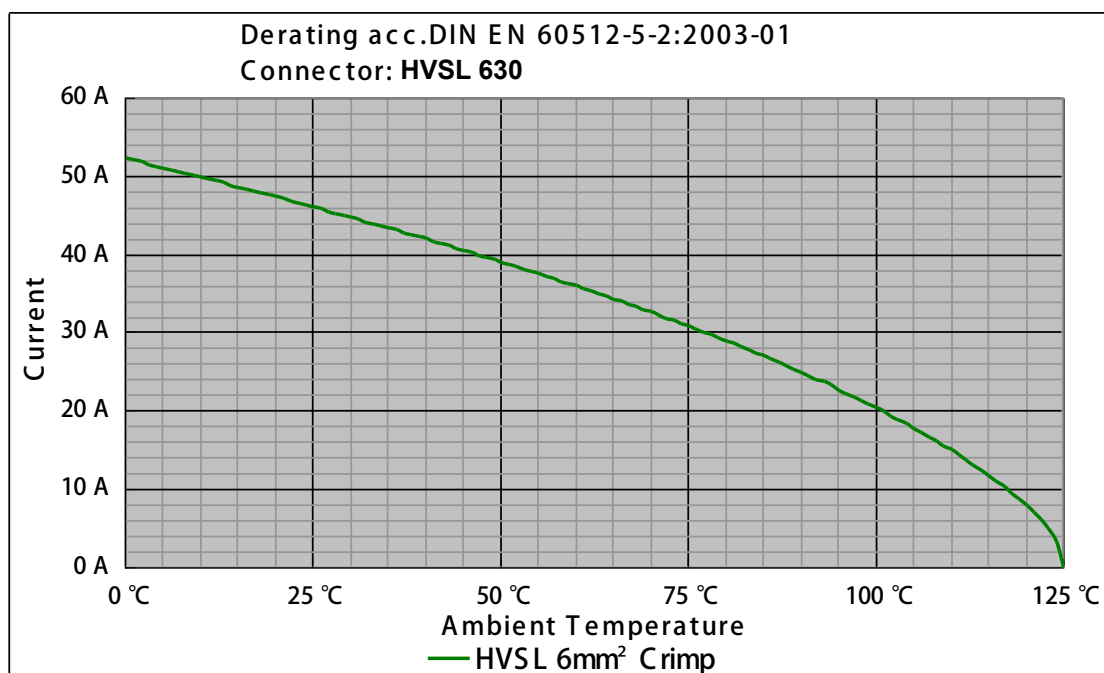
HOW TO ORDER: RECEPTACLE

	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

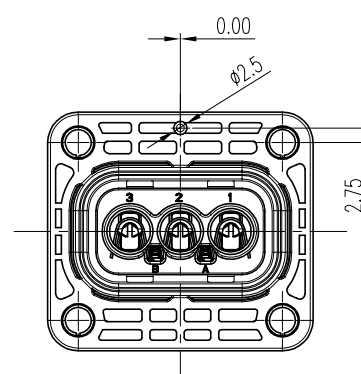
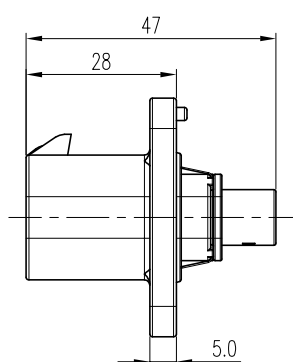
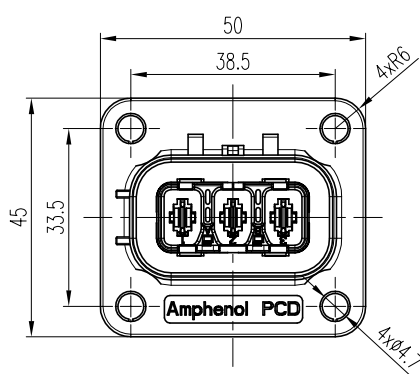
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

MATERIAL

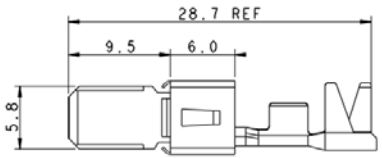
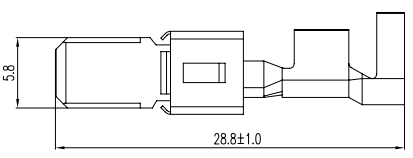
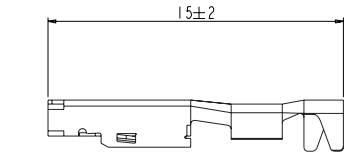
Terminals	Copper/copper alloy
Housing	PA66 + GF

RECEPTACLE HVSL633

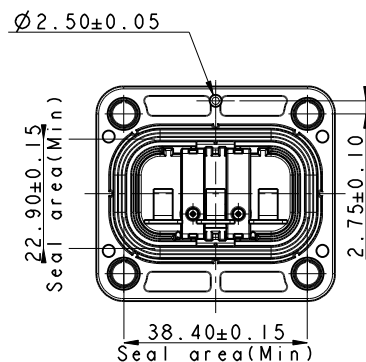
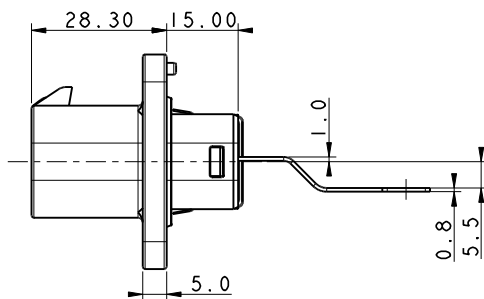
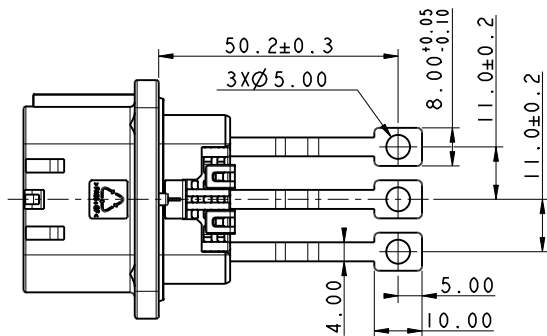
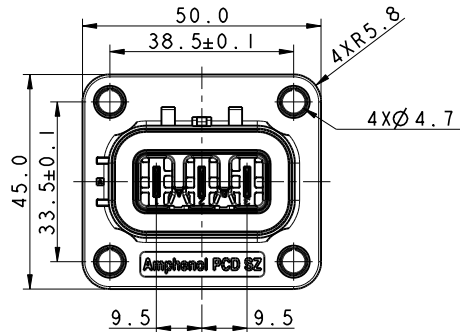


CONTACTS

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

RECEPTACLE HVSLW633

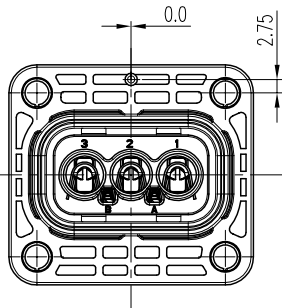
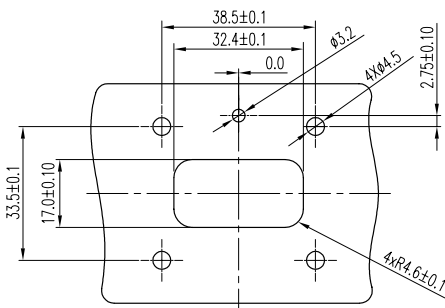
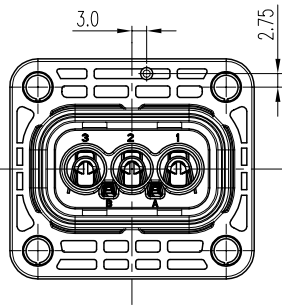
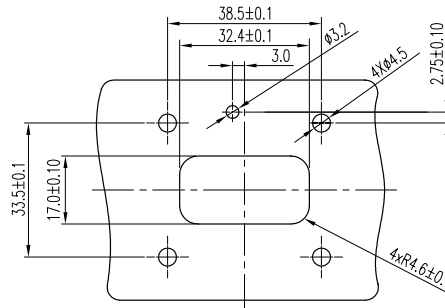
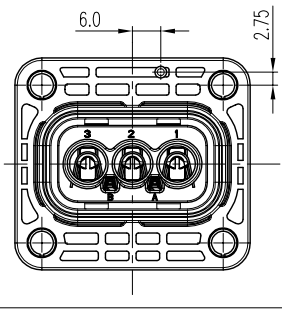
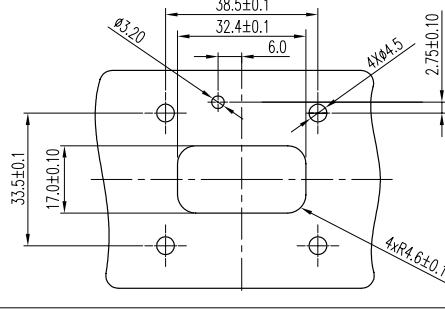
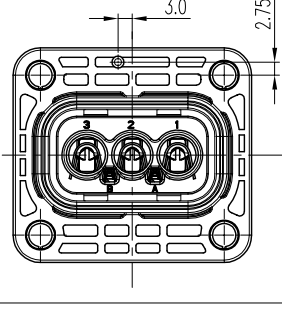
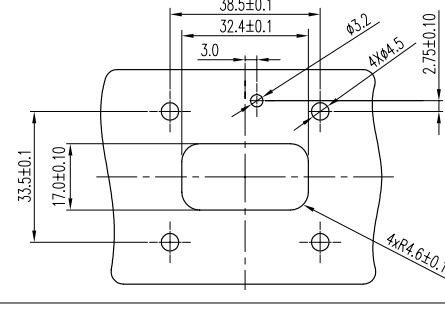
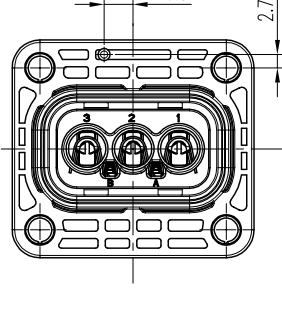
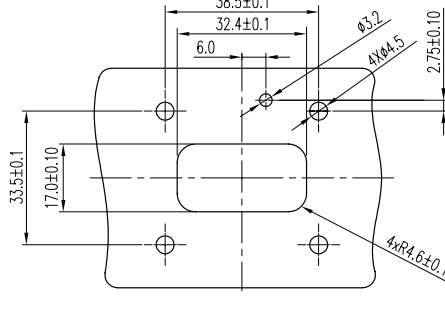


CONTACTS

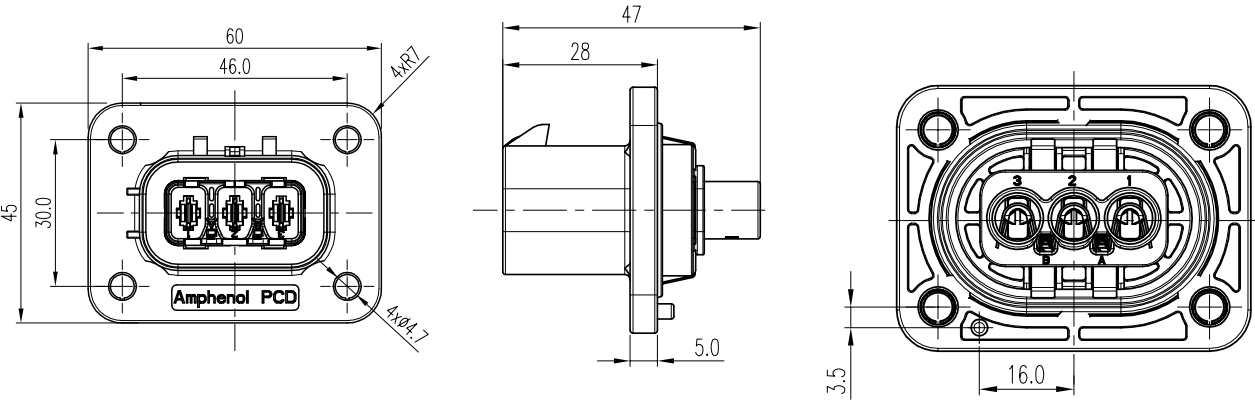
All connectors do not include contacts. Please order them separately (ref: P/N below)

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		

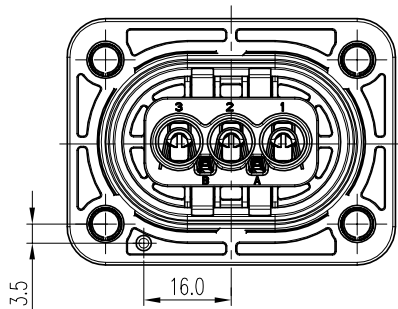
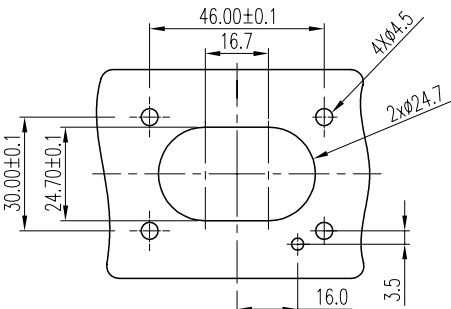
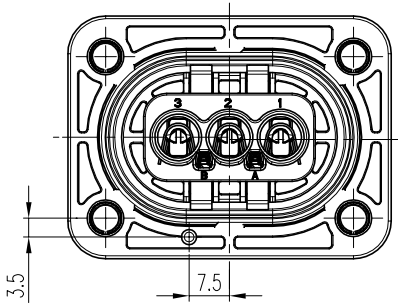
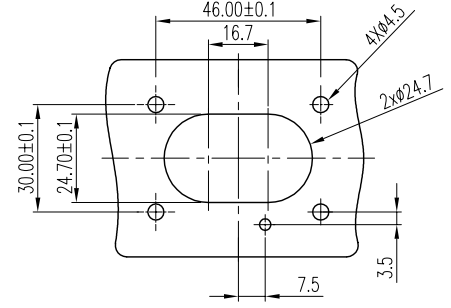
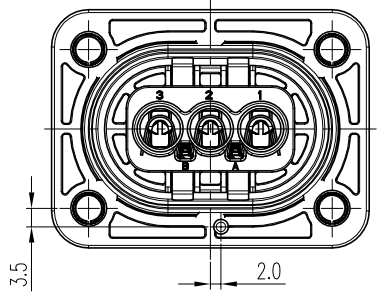
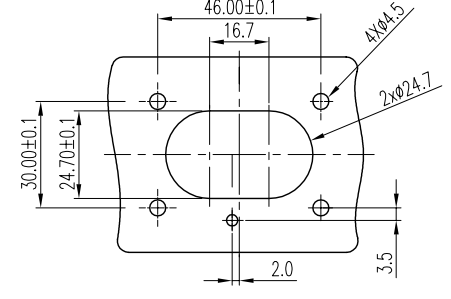
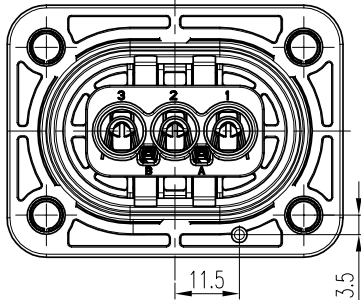
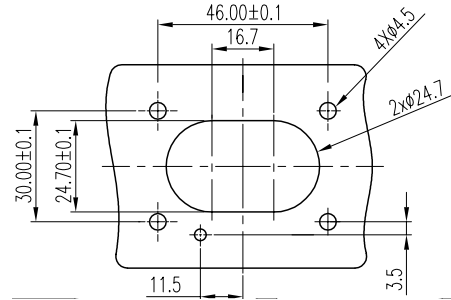
RECEPTACLE HVSLC633



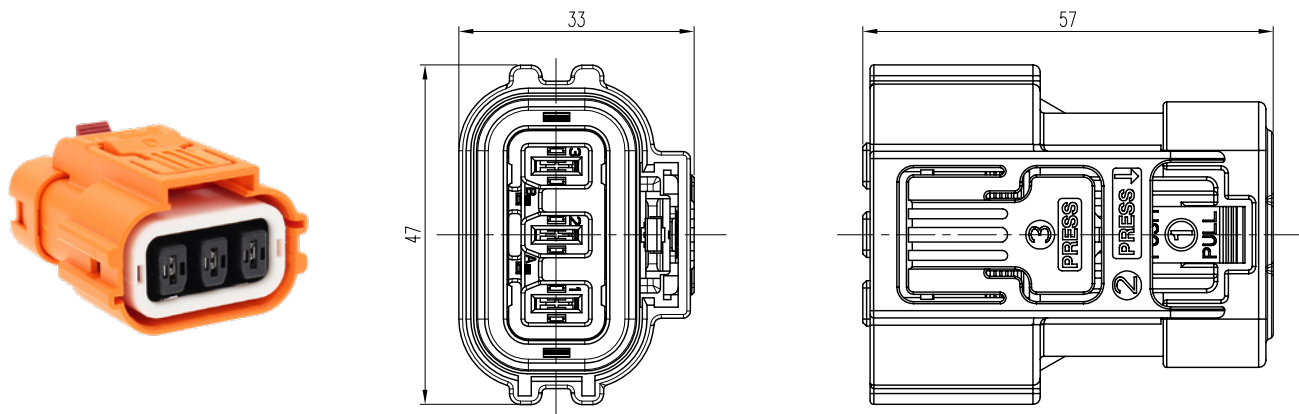
CONTACTS

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

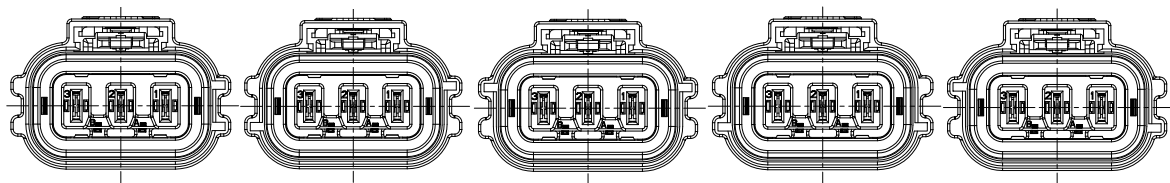
PANEL MOUNTING DIMENSION

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

PLUG

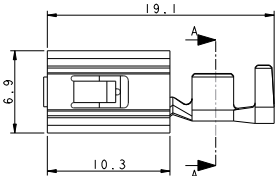
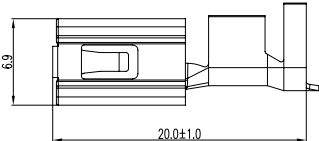


INSERT ORIENTATIONS

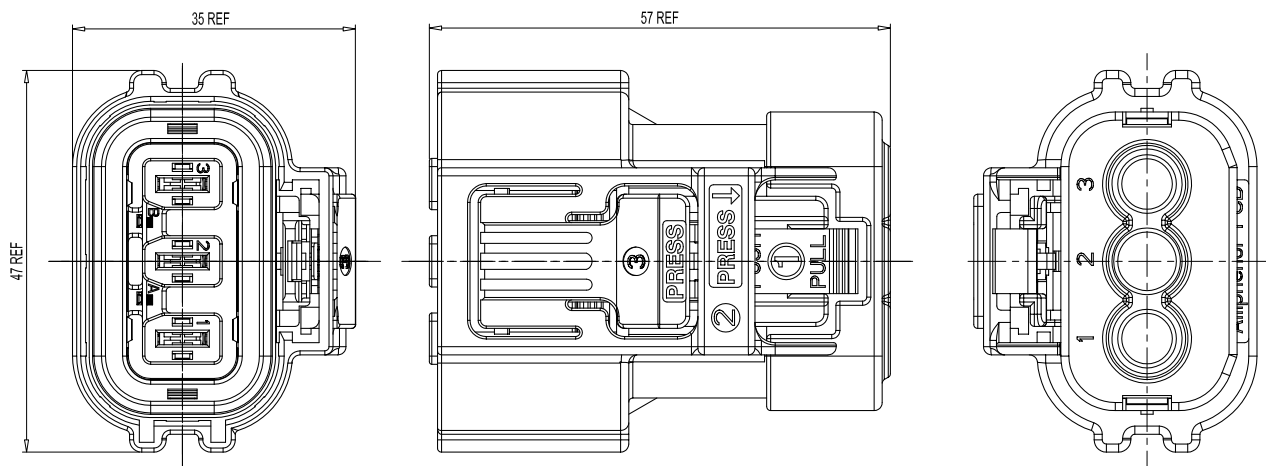


	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL633 06 3 A	HVSL633 06 3 B	HVSL633 06 3 C	HVSL633 06 3 D	HVSL633 06 3 E

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						

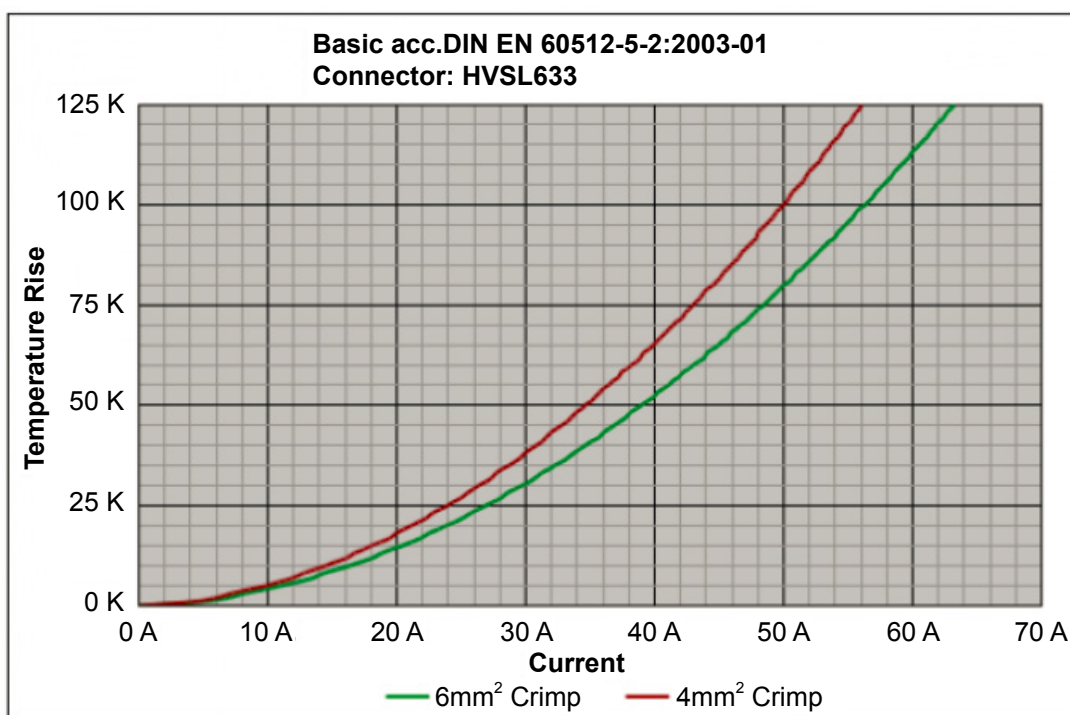
HVSL633		06	3	A	0	04	M	S1
Product type:	06: Straight plug							
Position:	3: 3 positions							
Coding / Alternate position:	A: Coding A B: Coding B C: Coding C							
Interlock:	0: Without interlock 1: With shorted interlock							
Cable size:	03: 2.5mm ²							
Wire type:	M: Multicore shielded wire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

HOW TO ORDER: RECEPTACLES

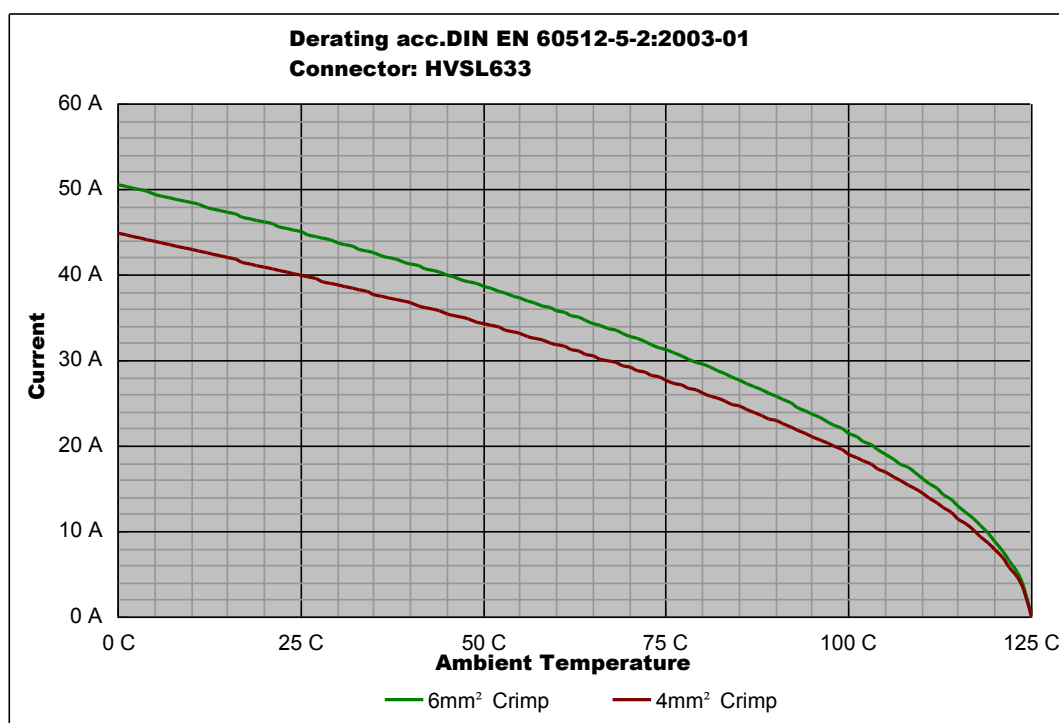
HVSL633		02	3	A
Product type:	02: Box mounted receptacle			
Position:	3: 3 positions			
Coding / Alternate position:	A: Coding A B: Coding B C: Coding C D: Coding D E: Coding E			

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			

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

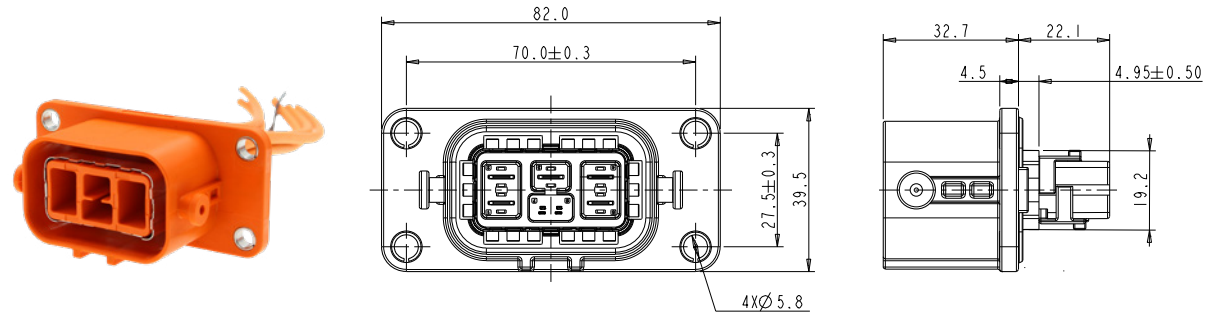
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS & REACH

MATERIAL

Housing	PA66 + GF
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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

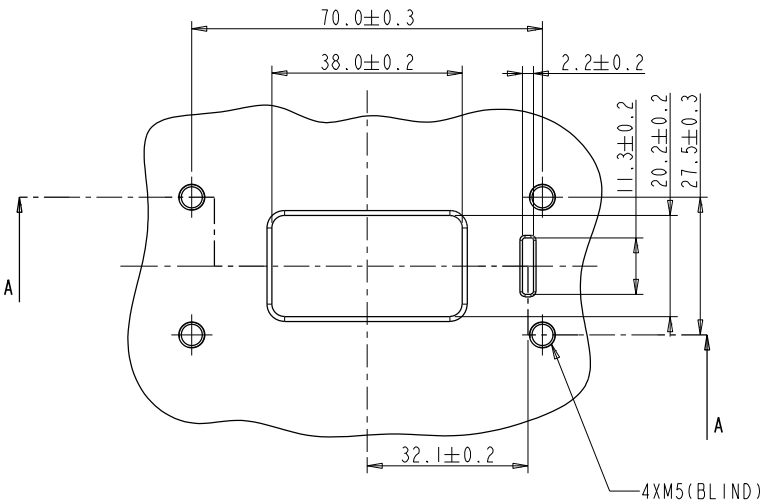
When customers purchase the complete connector, **two TPAs are already included as part of the package**. There is no need for them to make a separate purchase.

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

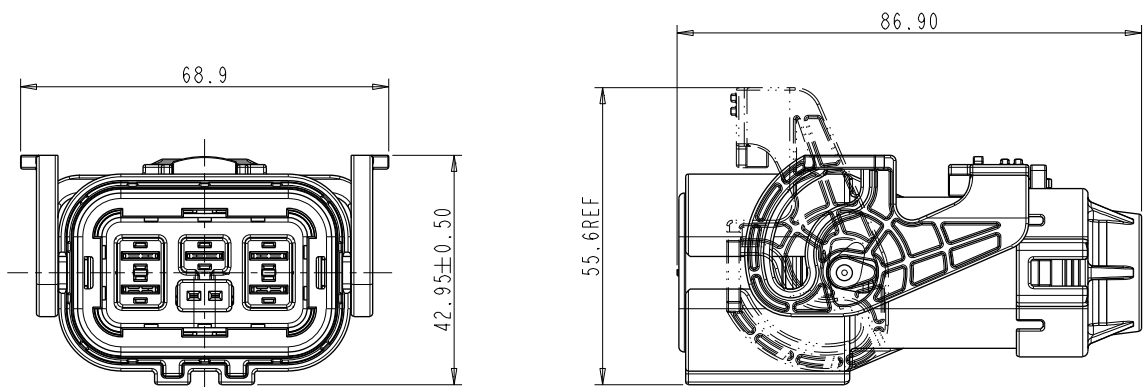


PANEL MOUNTING DIMENSION

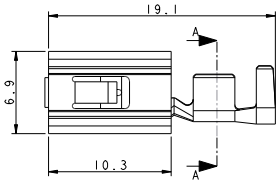
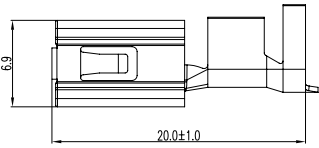


MOUNTING INTERFACE SPECIFICATION
RECOMMENDED THICKNESS:3.0mm Min

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)

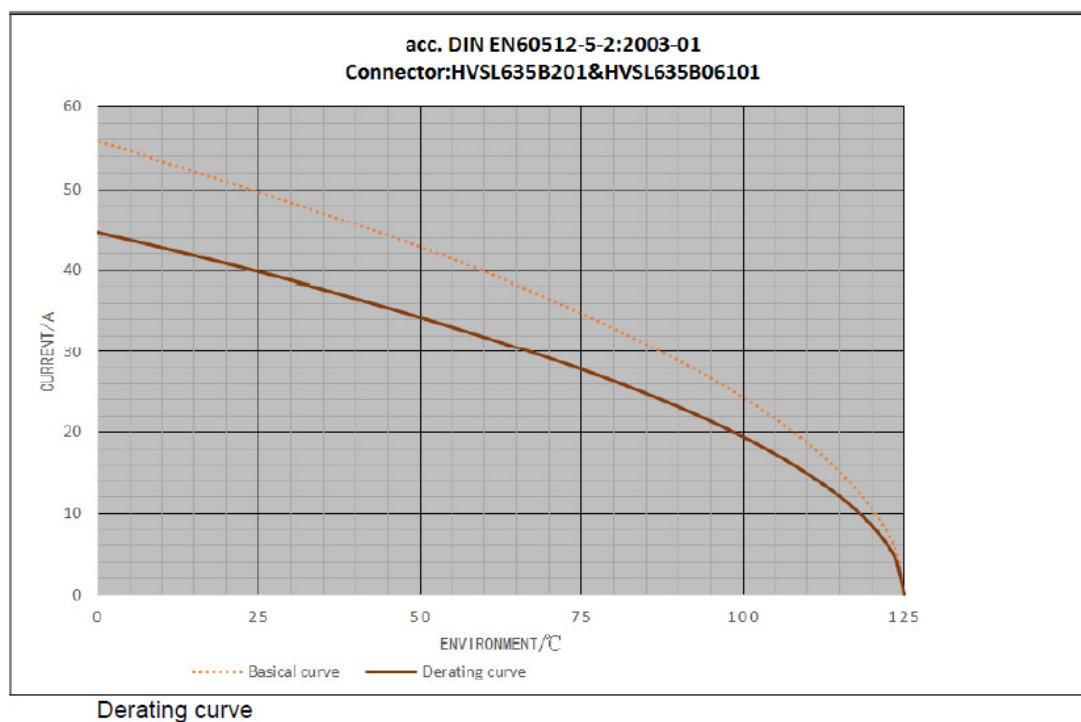
HOW TO ORDER: PLUG

	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



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)

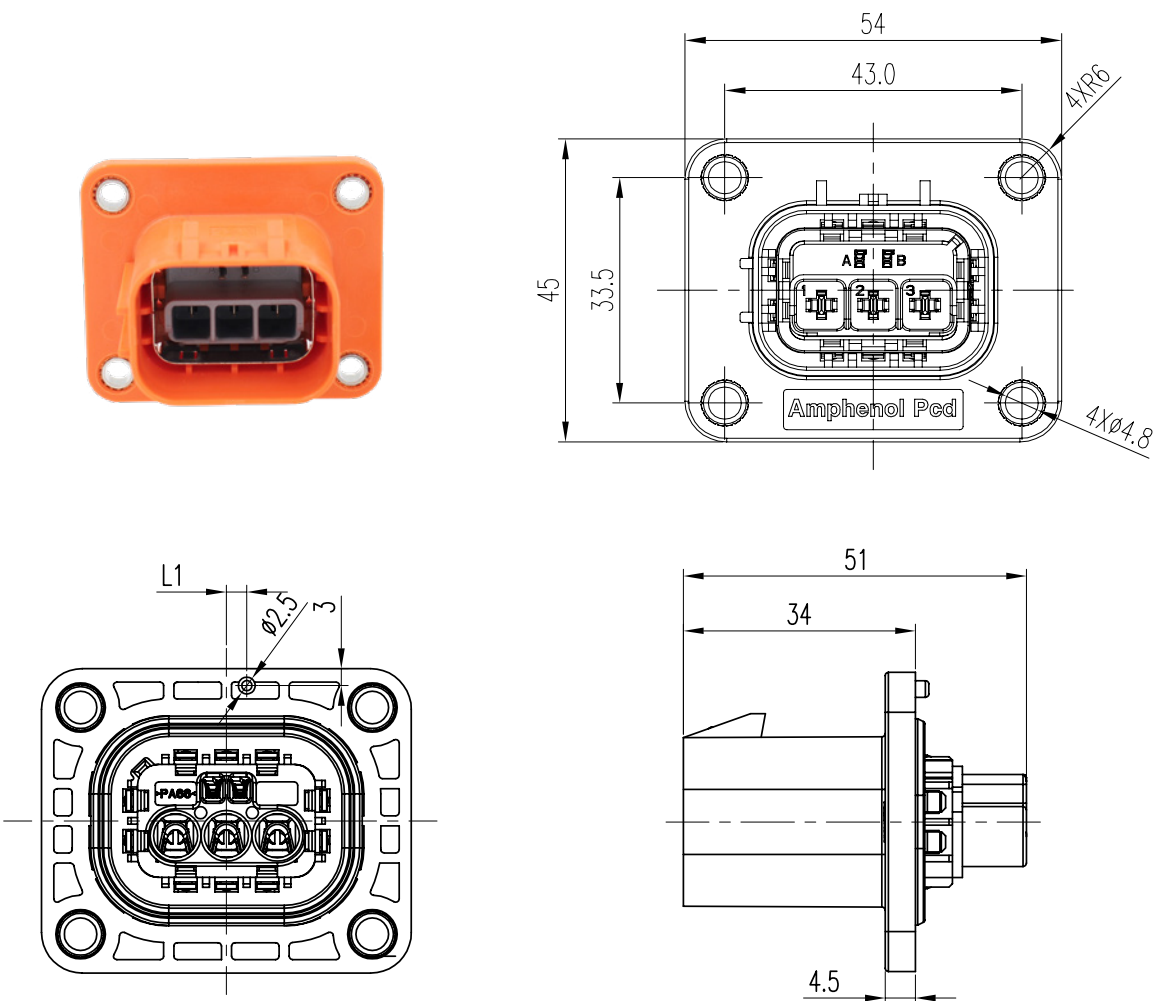
Touch-proof, IP2XB

Multiple coding positions

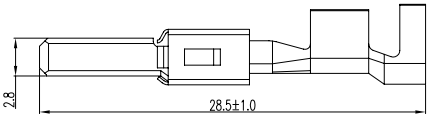
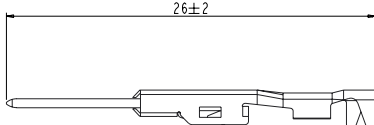
CPA available

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

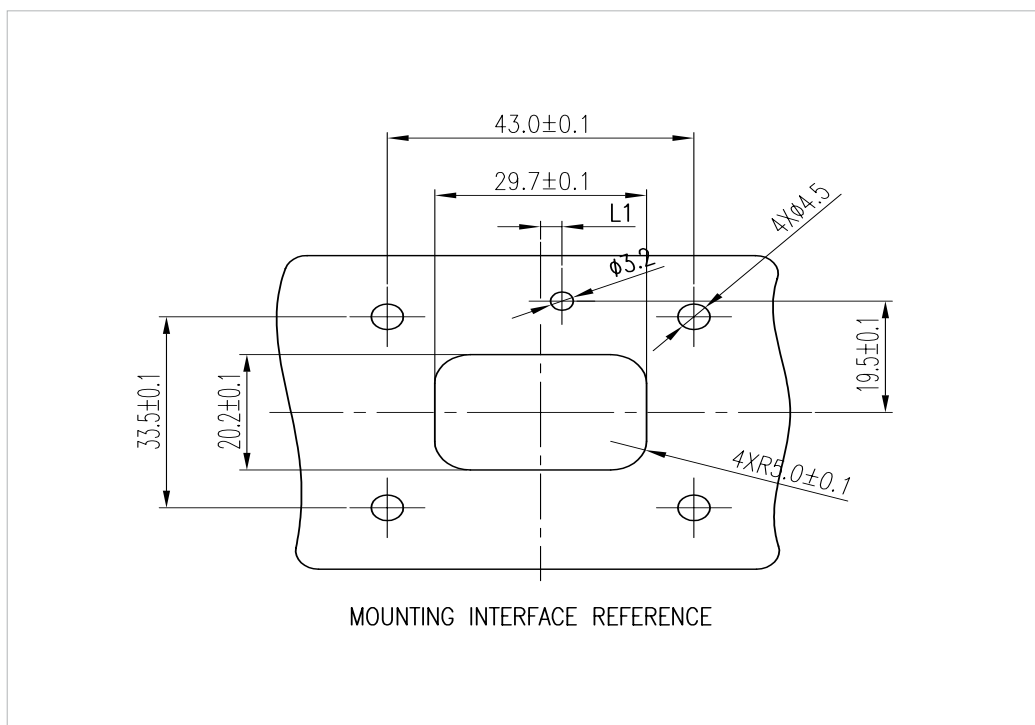


CONTACTS

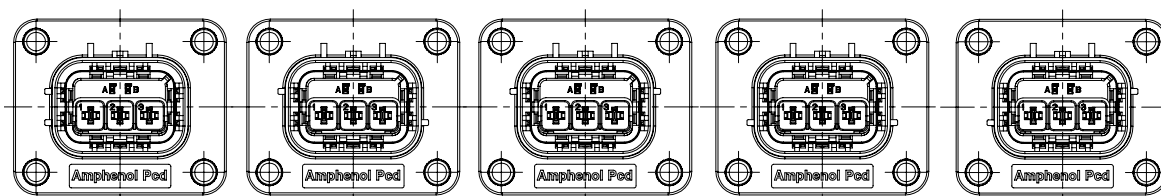
All connectors do not include contacts. Please order them separately (ref: P/N below)	
Pin contact: crimping	Pin signal contact (HVIL)
P/N: C310003611S	P/N: C310003613S
	
2.5 to 4mm ² unshielded wire	0.5 to 0.75mm ² unshielded wire

PANEL MOUNTING DIMENSION

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

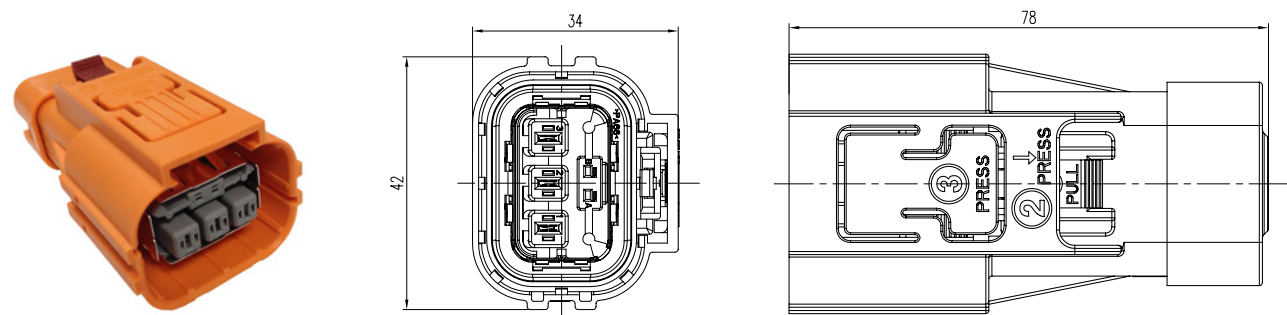


INSERT ORIENTATIONS

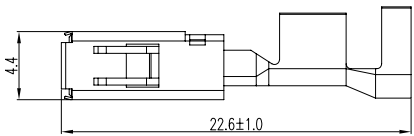
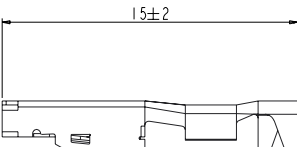


	Coding A	Coding B	Coding C	Coding D	Coding E
P/N	HVSL280 02 3 A	HVSL280 02 3 B	HVSL280 02 3 C	HVSL280 02 3 D	HVSL280 02 3 E

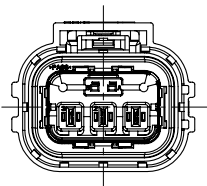
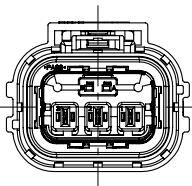
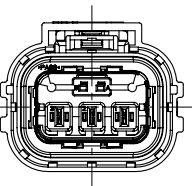
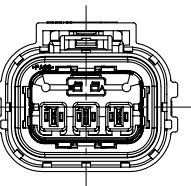
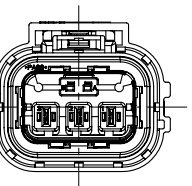
PLUG



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

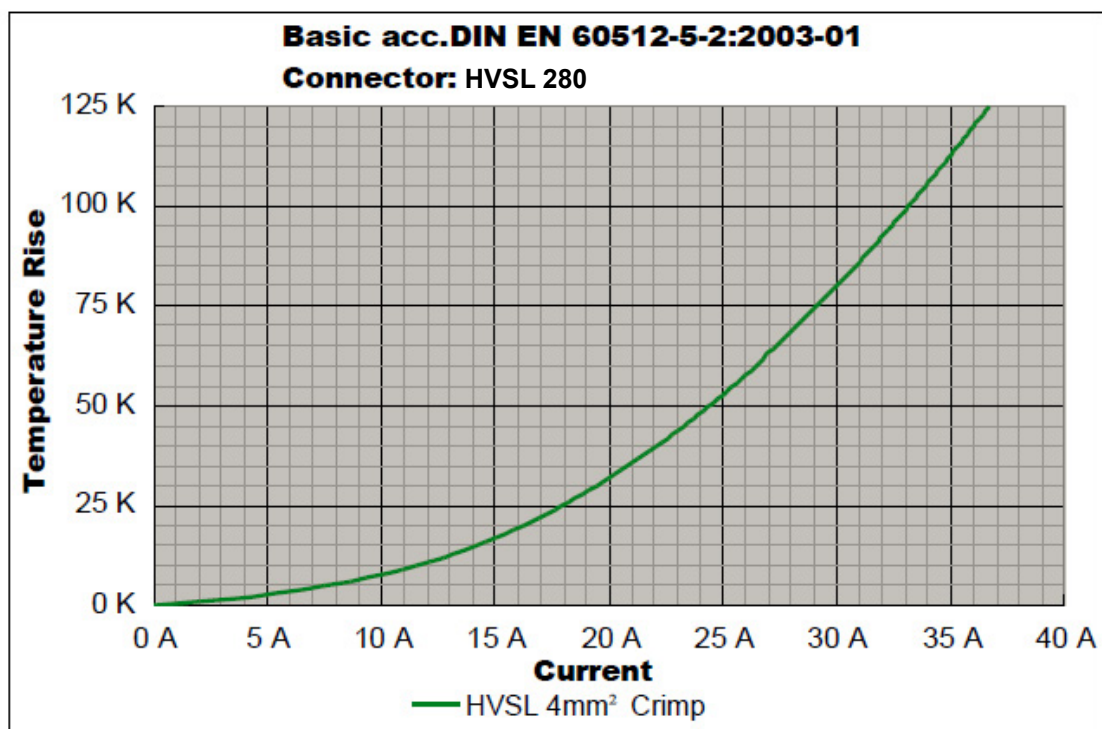
HOW TO ORDER: PLUG

	HVSL280	06	3	A	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				

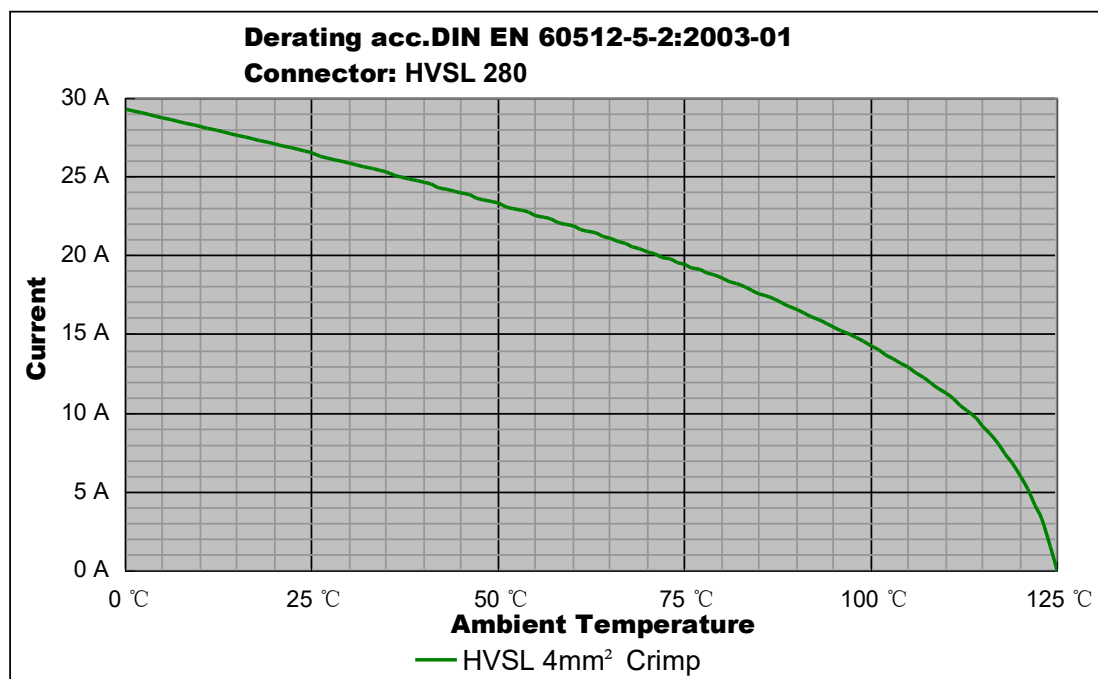
HOW TO ORDER: RECEPTACLE

	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)

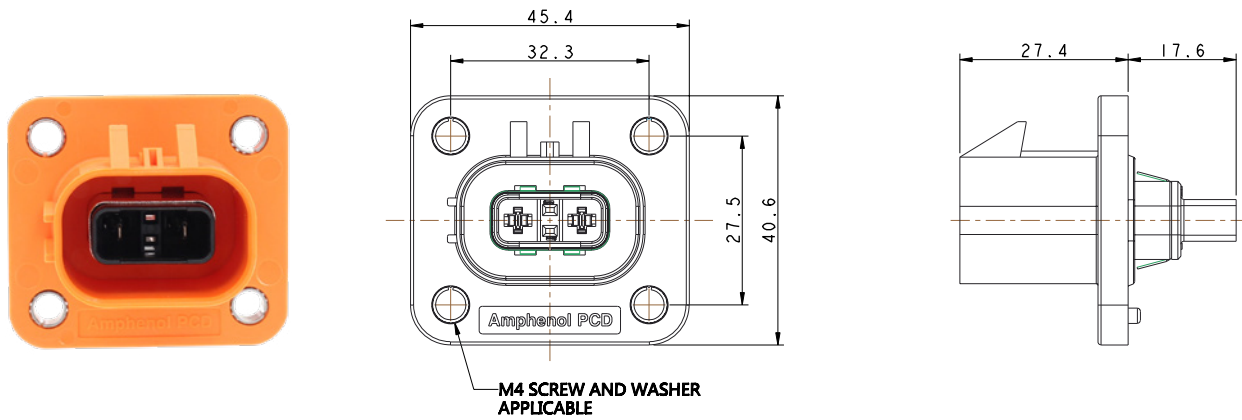
Touch-proof, IP2XB

Multiple coding positions

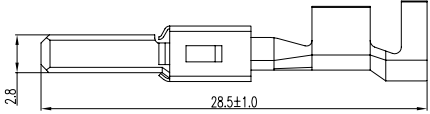
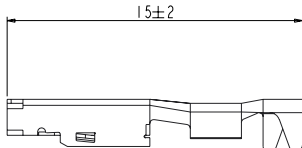
CPA available

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

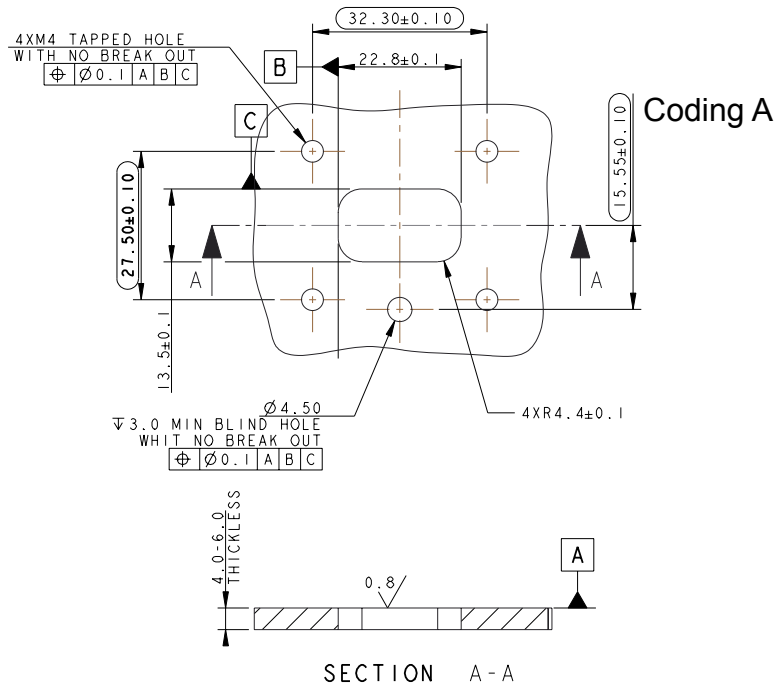
RECEPTACLE



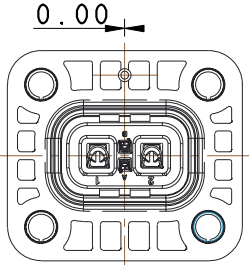
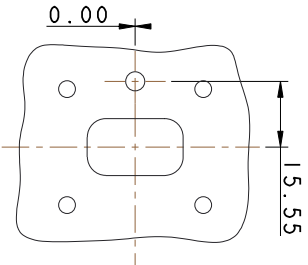
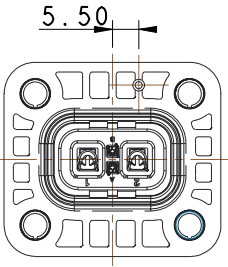
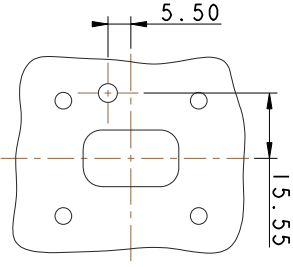
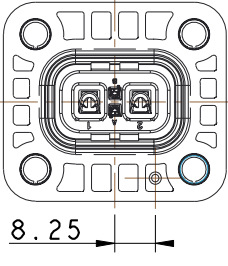
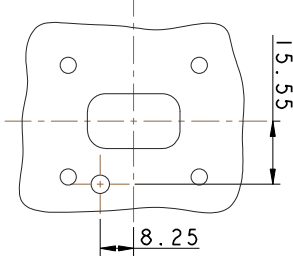
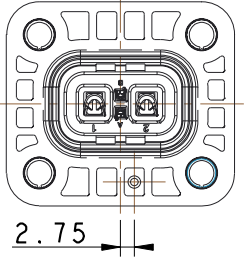
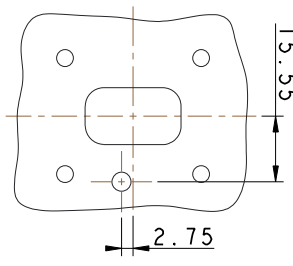
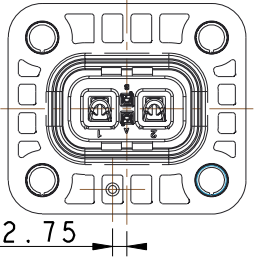
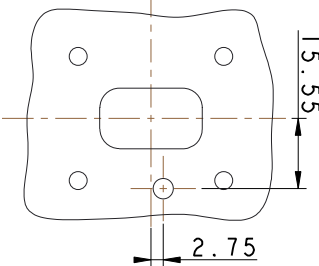
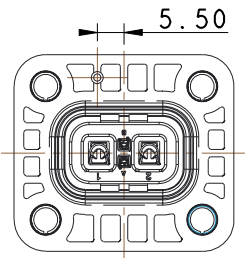
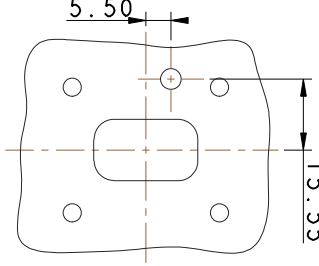
CONTACTS

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

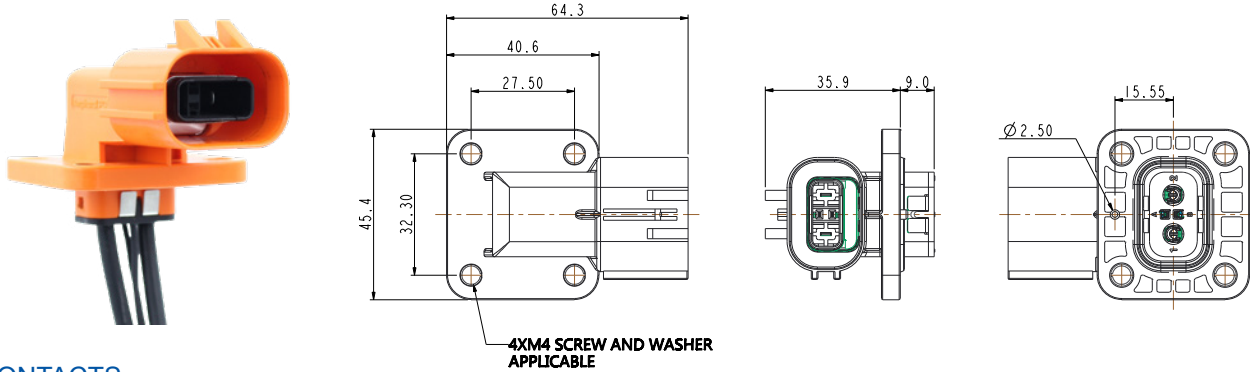
PANEL MOUNTING DIMENSION



PANEL MOUNTING DIMENSION

Part number	INSERT ORIENTATIONS	PANEL MOUNTING DIMENSION
HVSL282 02 2 A		
HVSL282 02 2 B		
HVSL282 02 2 C		
HVSL282 02 2 D		
HVSL282 02 2 E		
HVSL282 02 2 F		

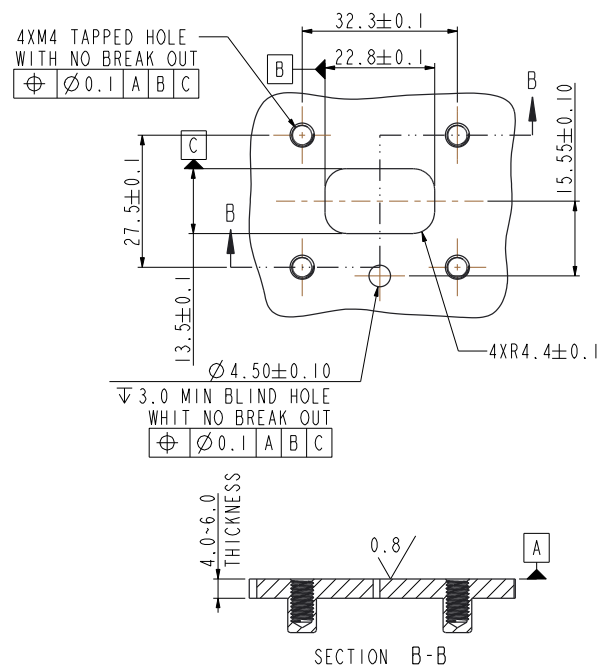
RIGHT-ANGLE RECEPTACLE



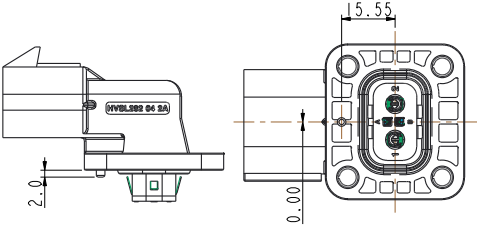
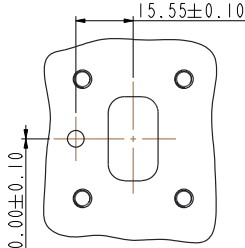
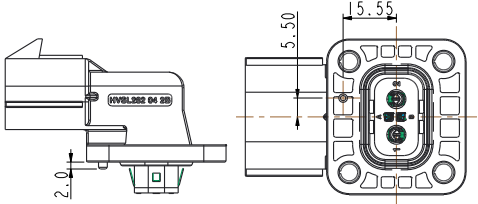
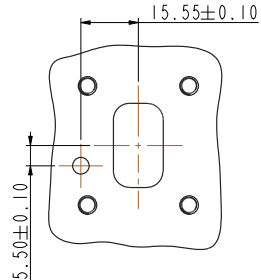
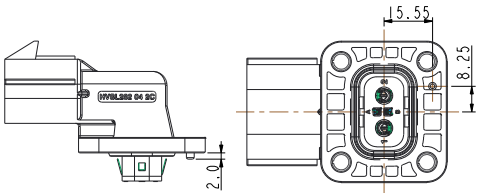
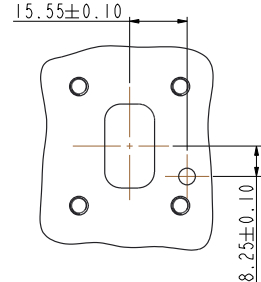
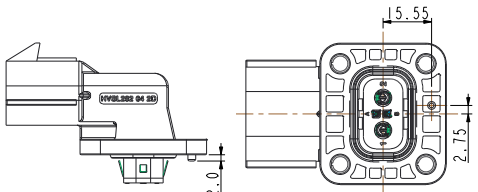
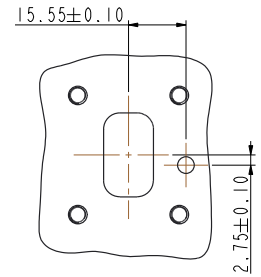
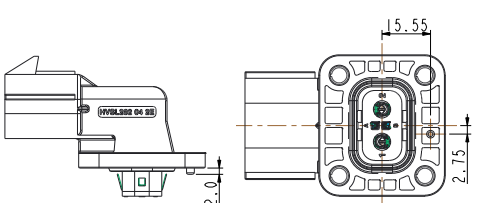
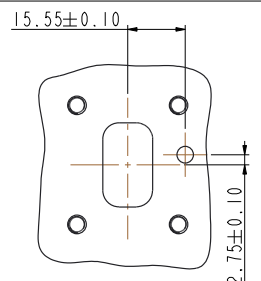
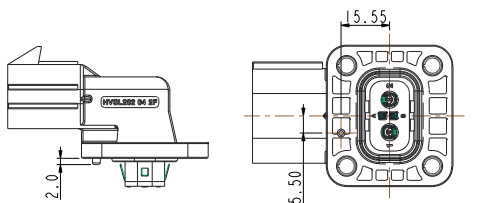
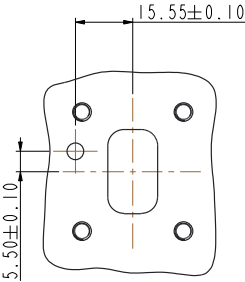
CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)	
Socket contact: crimping	Socket signal contact (HVIL)
P/N: C310003612S	P/N: C310003614S
2.5 to 4mm ² unshielded wire	0.5 to 0.75mm ² unshielded wire

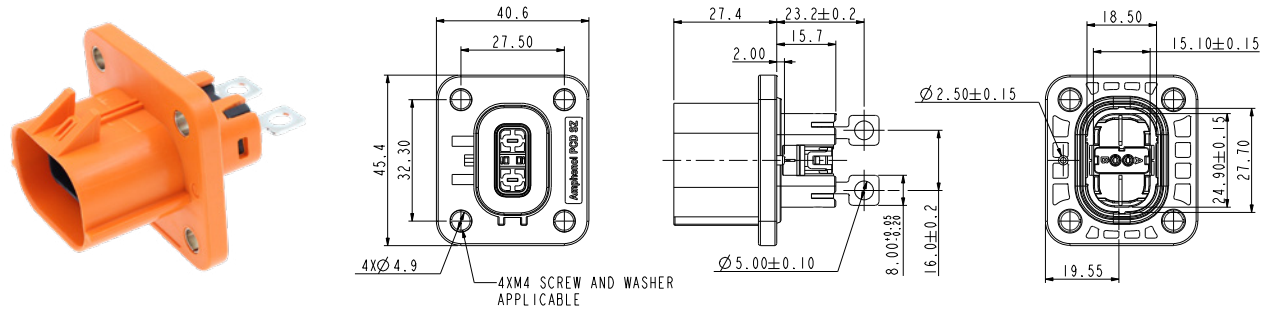
PANEL MOUNTING DIMENSION



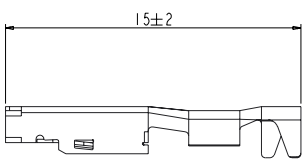
PANEL MOUNTING DIMENSION

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

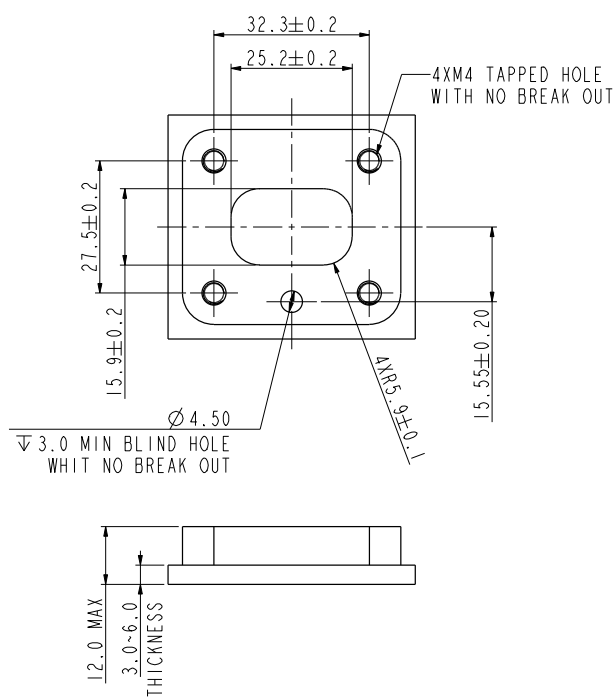
RECEPTACLE WITH SOLDERED PIN FOR PCB BOARD



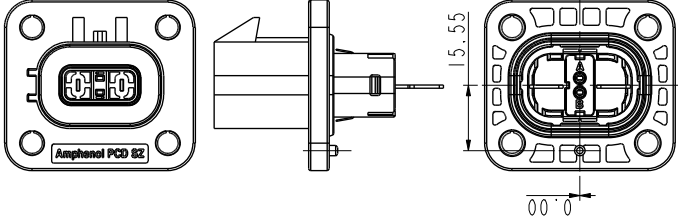
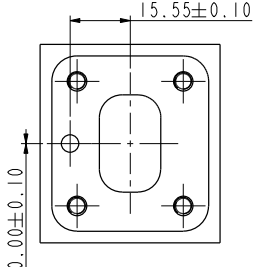
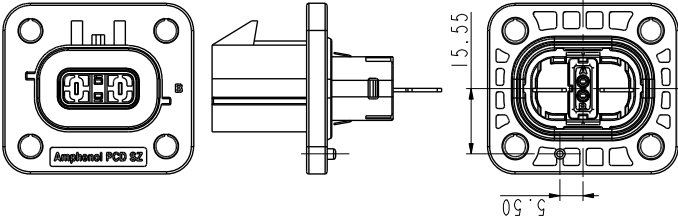
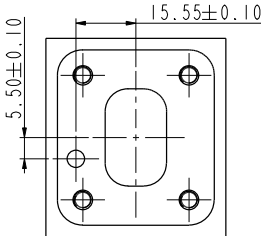
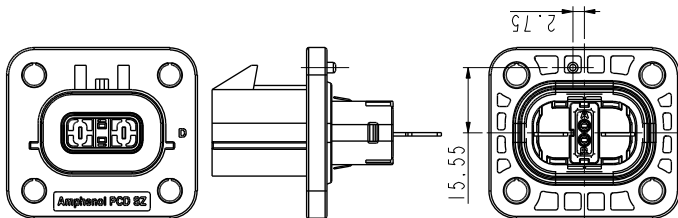
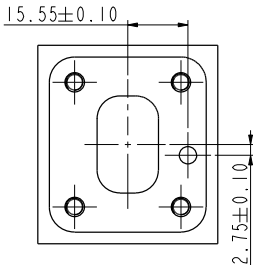
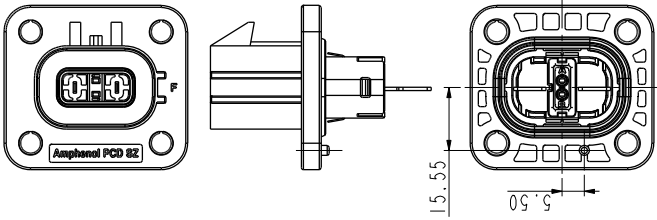
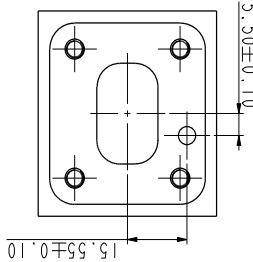
CONTACTS

All connectors do not include contacts. Please order them separately (ref: P/N below)
Socket signal contact (HVIL)
P/N: C310003614S

0.5 to 0.75mm ² unshielded wire

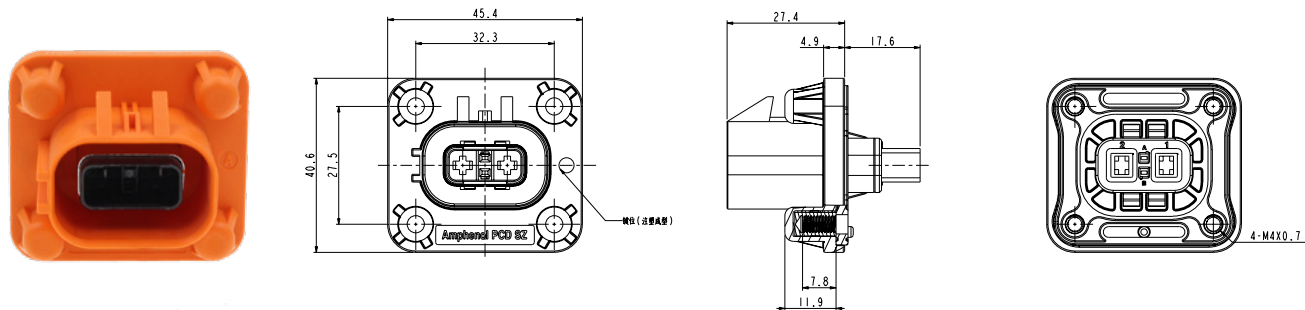
PANEL MOUNTING DIMENSION



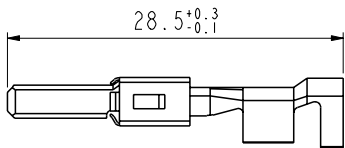
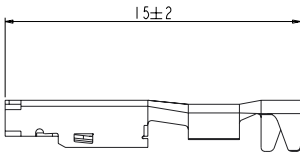
PANEL MOUNTING DIMENSION

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

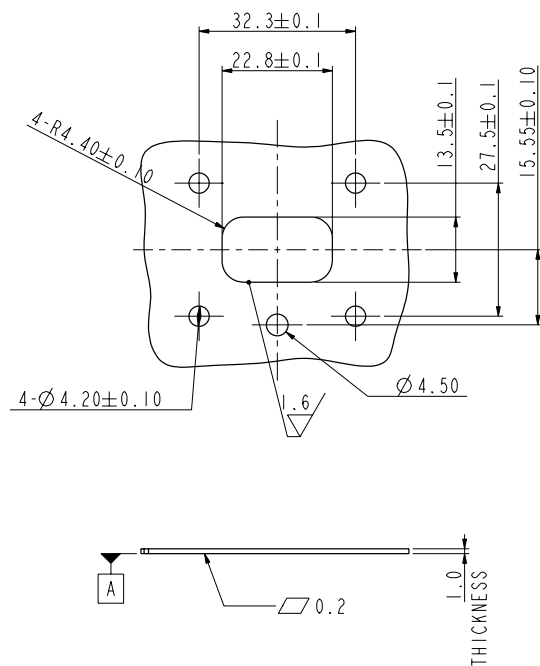
BLIND HOLE MOUNTED RECEPTACLE



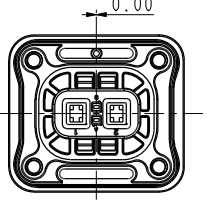
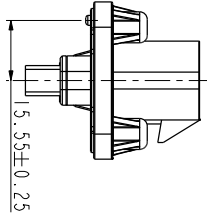
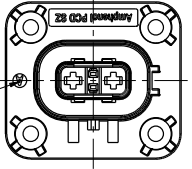
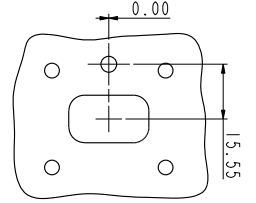
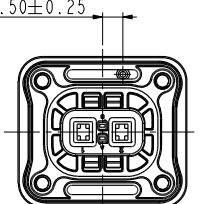
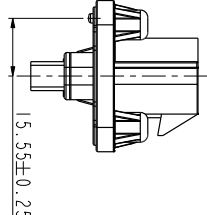
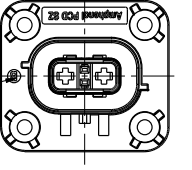
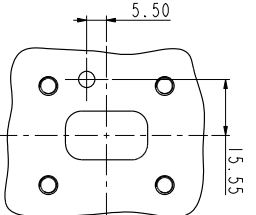
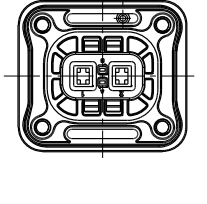
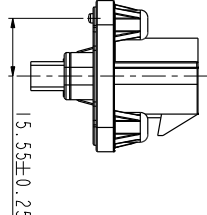
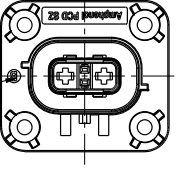
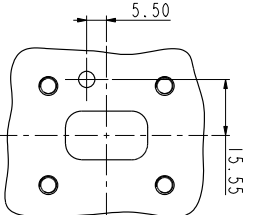
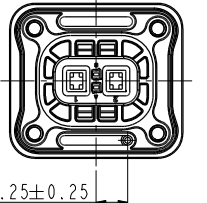
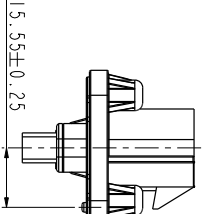
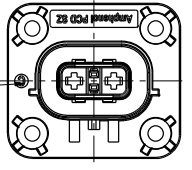
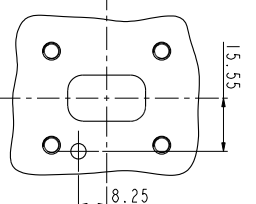
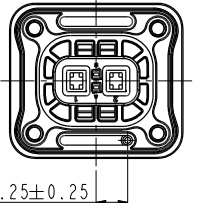
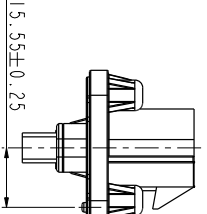
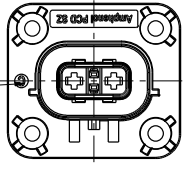
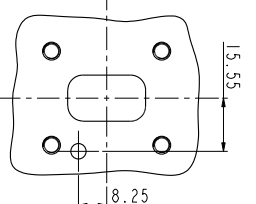
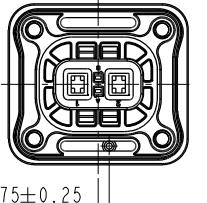
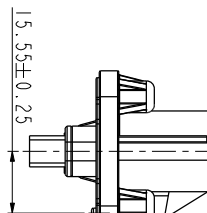
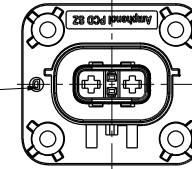
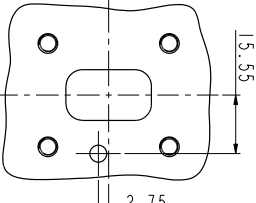
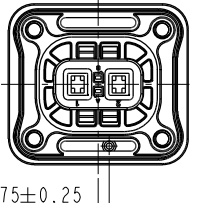
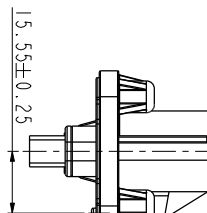
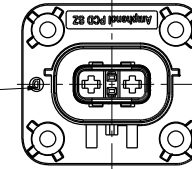
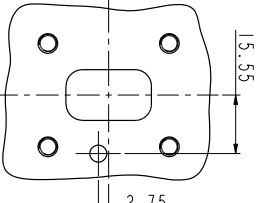
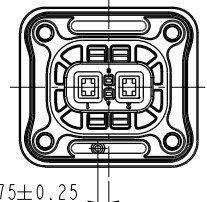
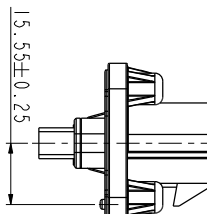
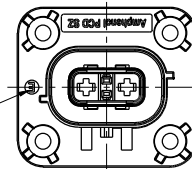
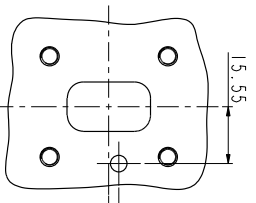
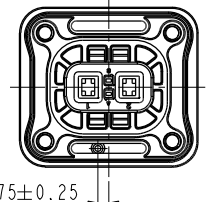
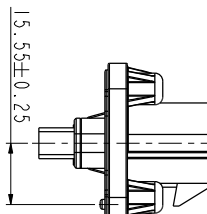
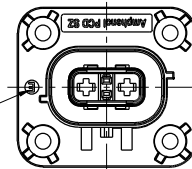
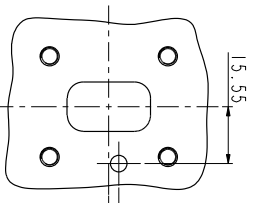
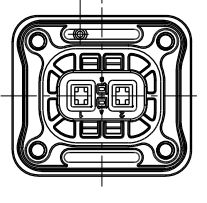
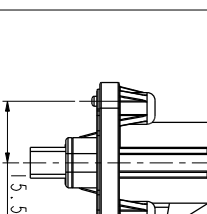
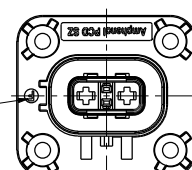
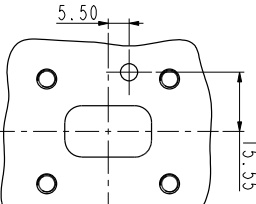
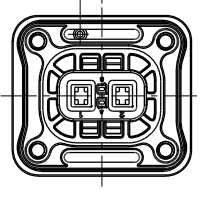
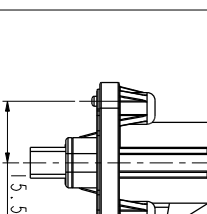
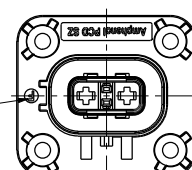
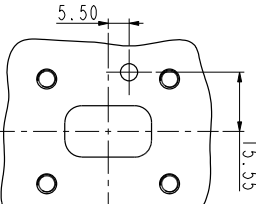
CONTACTS

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

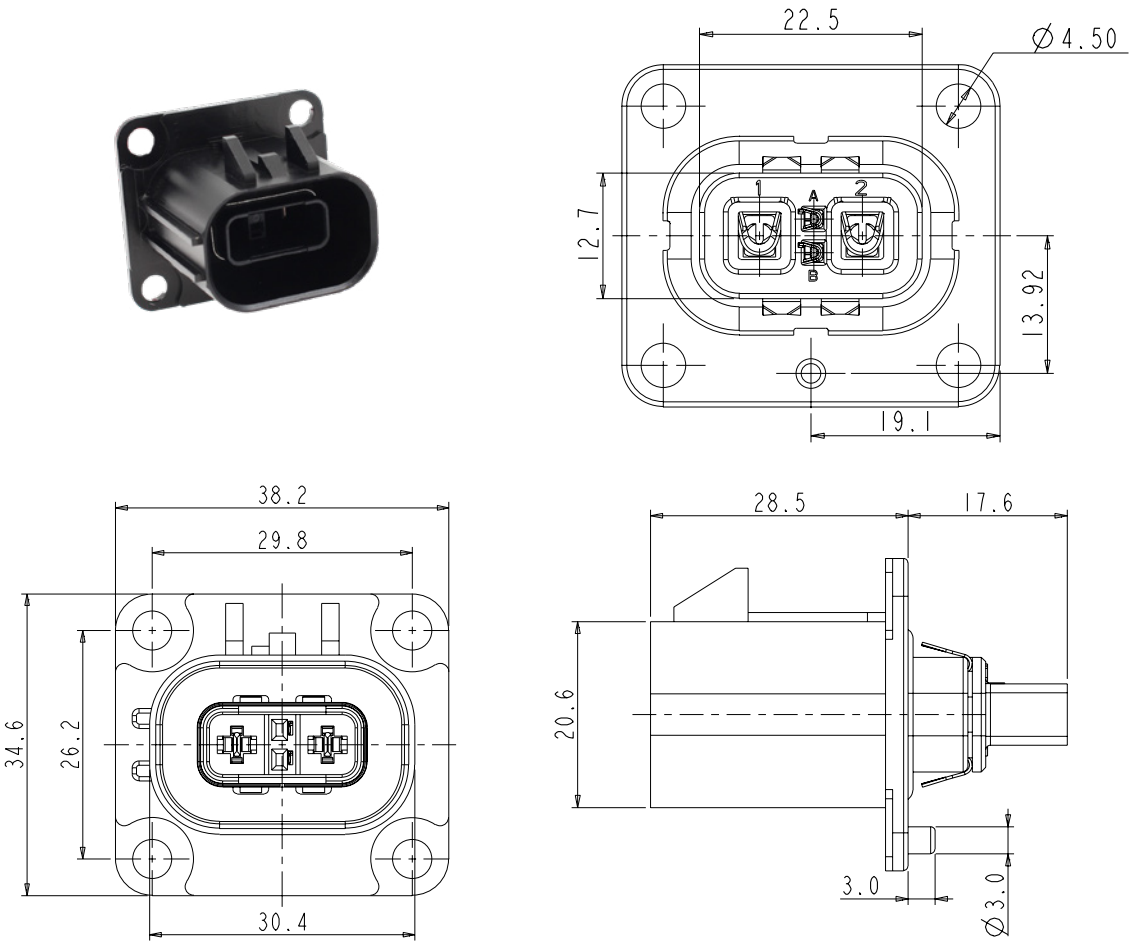
PANEL MOUNTING DIMENSION



PANEL MOUNTING DIMENSION

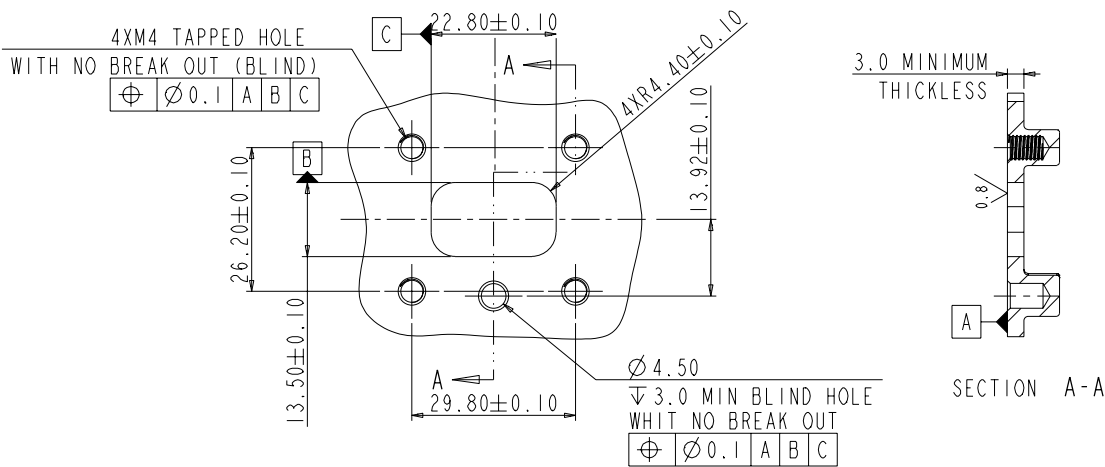
Part number	INSERT ORIENTATIONS			PANEL MOUNTING DIMENSION
HVSL282 032 A				
				
HVSL282 032 B				
				
HVSL282 032 C				
				
HVSL282 032 D				
				
HVSL282 032 E				
				
HVSL282 032 F				

RECEPTACLE: METAL SHELL

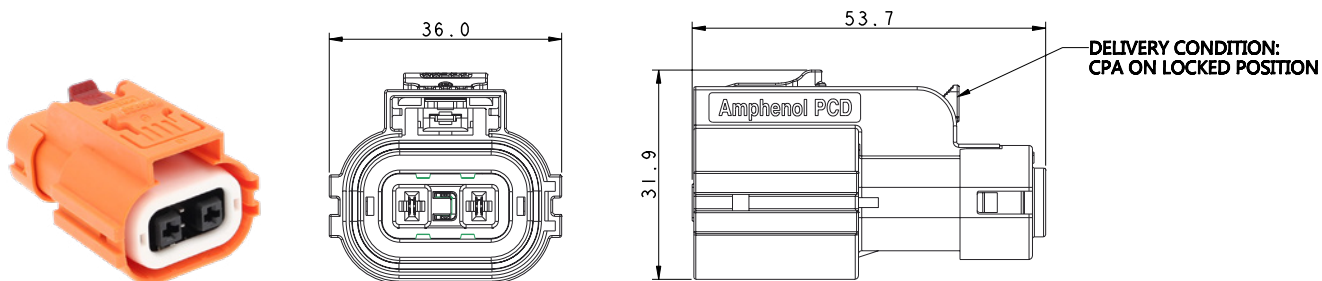


PANEL MOUNTING DIMENSION

PANEL CUT-OUT REFERENCE



PLUG

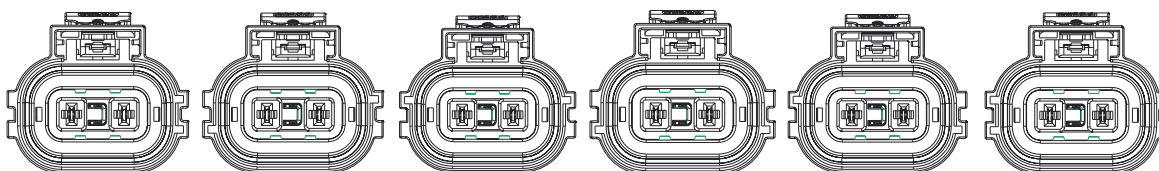


CONTACTS

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

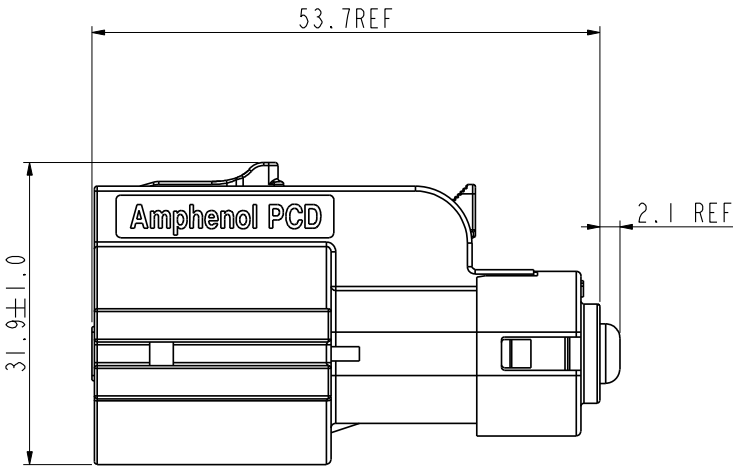
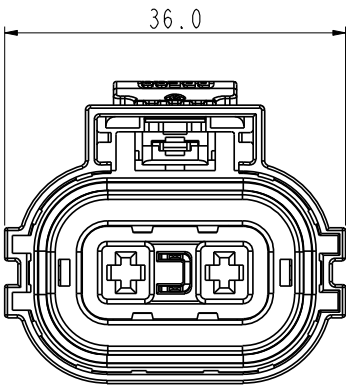
Socket contact: crimping	HVIL contacts
P/N: C310003612S	Integrated, no need to buy.
2.5 to 4mm ² shielded wire	

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 D: Coding D B: Coding B E: Coding E C: Coding C F: Coding F				

		HVSL282	03	2	A
Product type:	03: Blind hole mounted receptacle				
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				

		HVSL282	04	2	A	1
Product type:	04: Right-angle receptacle					
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					

		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					

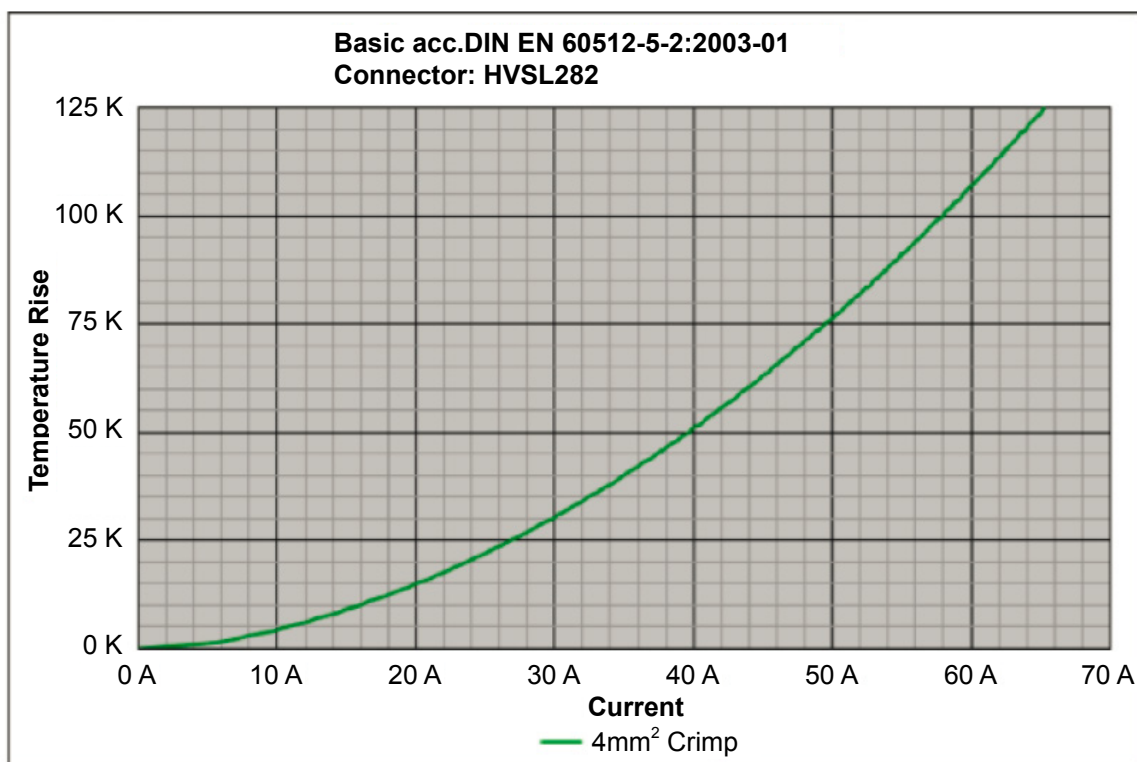
Remark: W stands for Waterproof.

RECEPTACLE: METAL SHELL

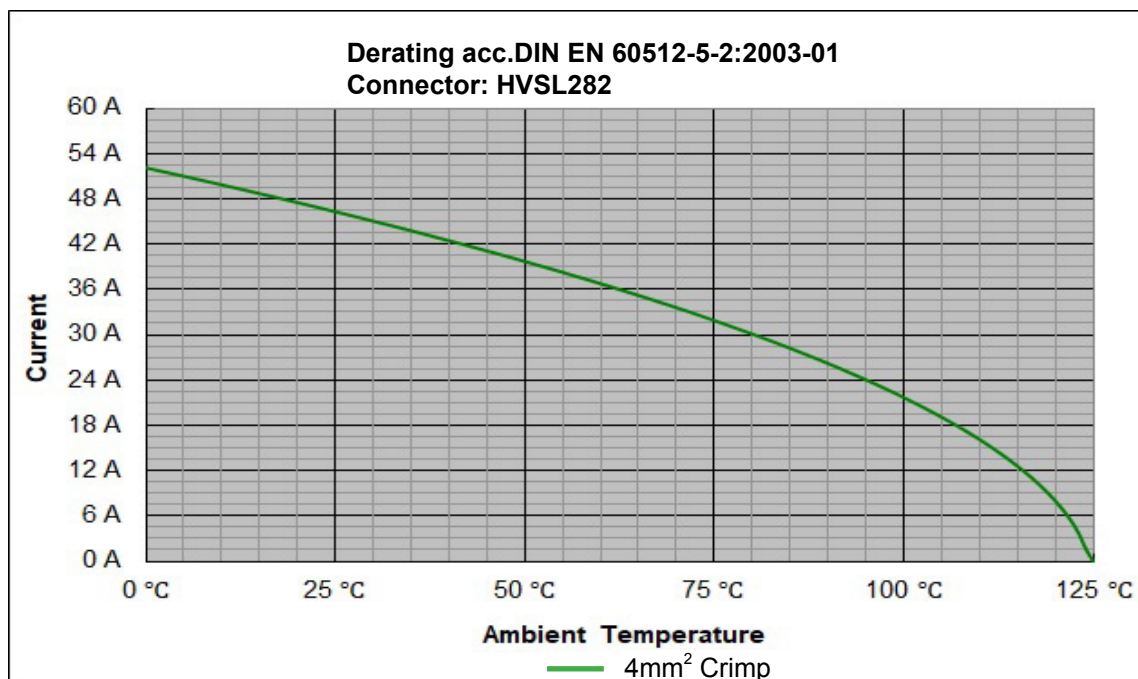
		HVSLM282	02	2	A
Product type:	02: Box mounted receptacle				
Position:	2: 2 positions				
Coding / Alternate position:	A: Coding A				

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

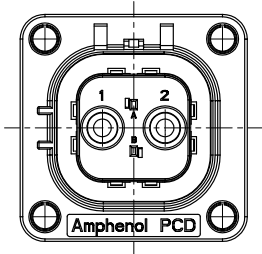
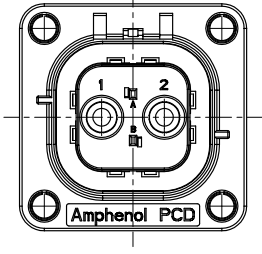
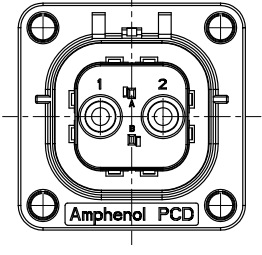
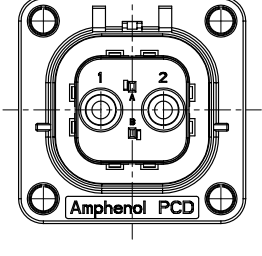
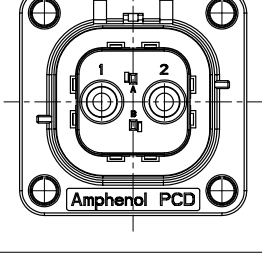
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

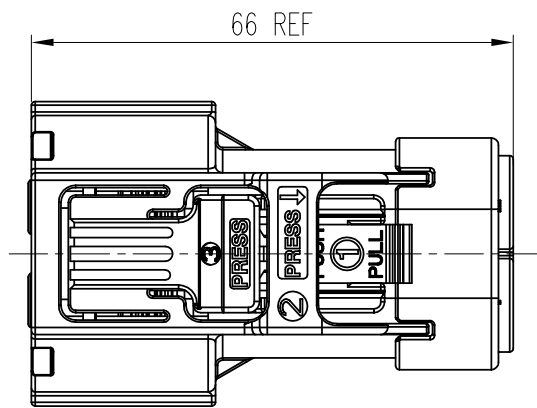
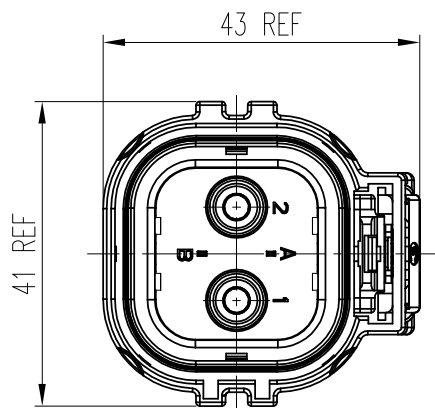
MATERIAL

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

PANEL MOUNTING HOLES POSITIONS

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

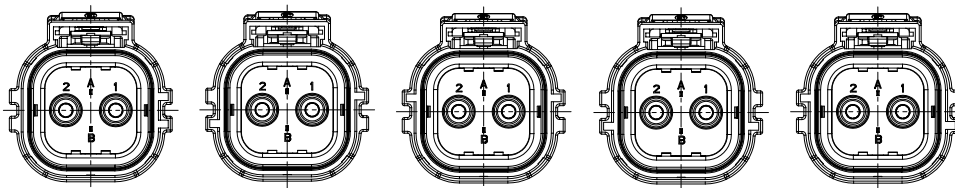
PLUG



CONTACTS

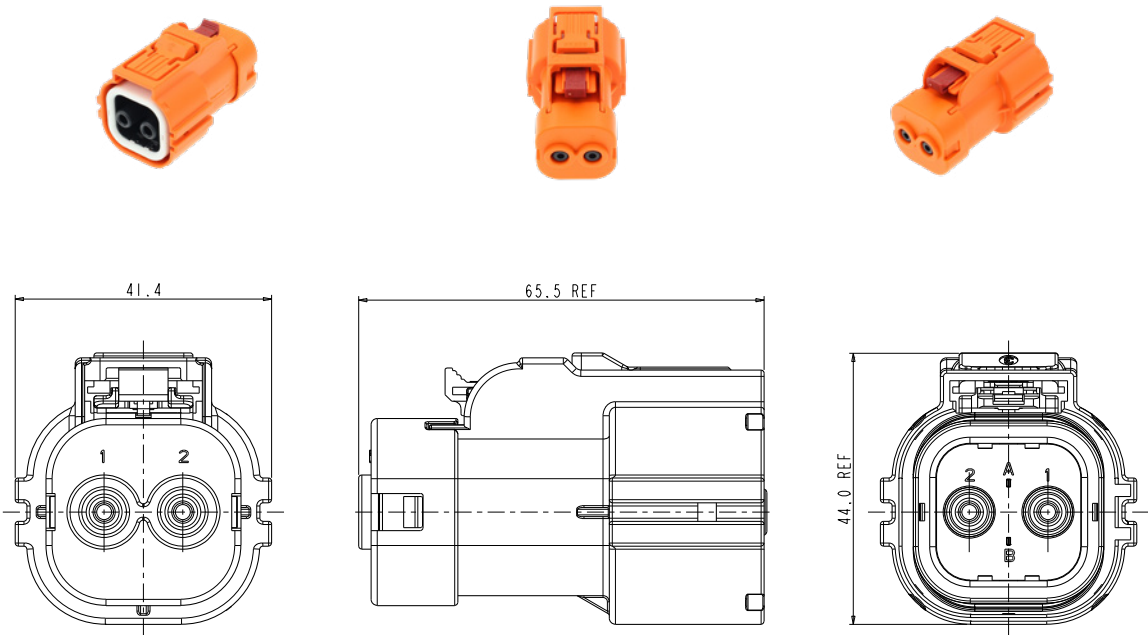
All connectors do not include contacts. Please order them separately (ref: P/N below)			
CONTACTS			
HVIL CONTACTS	6 to 10mm ² (Stamped)	16mm ² (Stamped)	16mm ² (Machined)
	P/N: C3100235021	P/N: P03BS00080	P/N: P03BM00196
Integrated, no need to buy.			

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

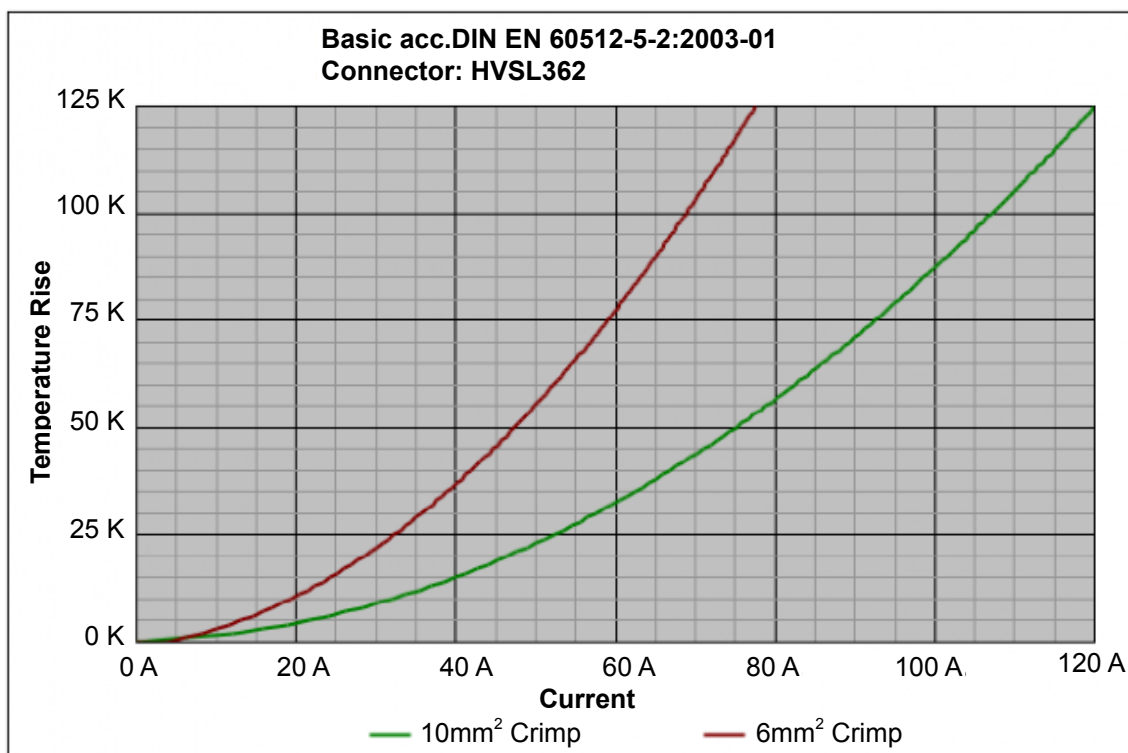
		HVSL362	06	2	A	0	06	I
Product type:	06: Straight plug							
Position:	2: 2 positions							
Coding / Alternate position:	A: Coding A B: Coding B C: Coding C D: Coding D E: Coding E							
Interlock:	0: Without interlock 1: With interlock							
Cable size:	06: 6mm ² 10: 10mm ² 16: 16mm ²							
Wire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

HOW TO ORDER: RECEPTACLE

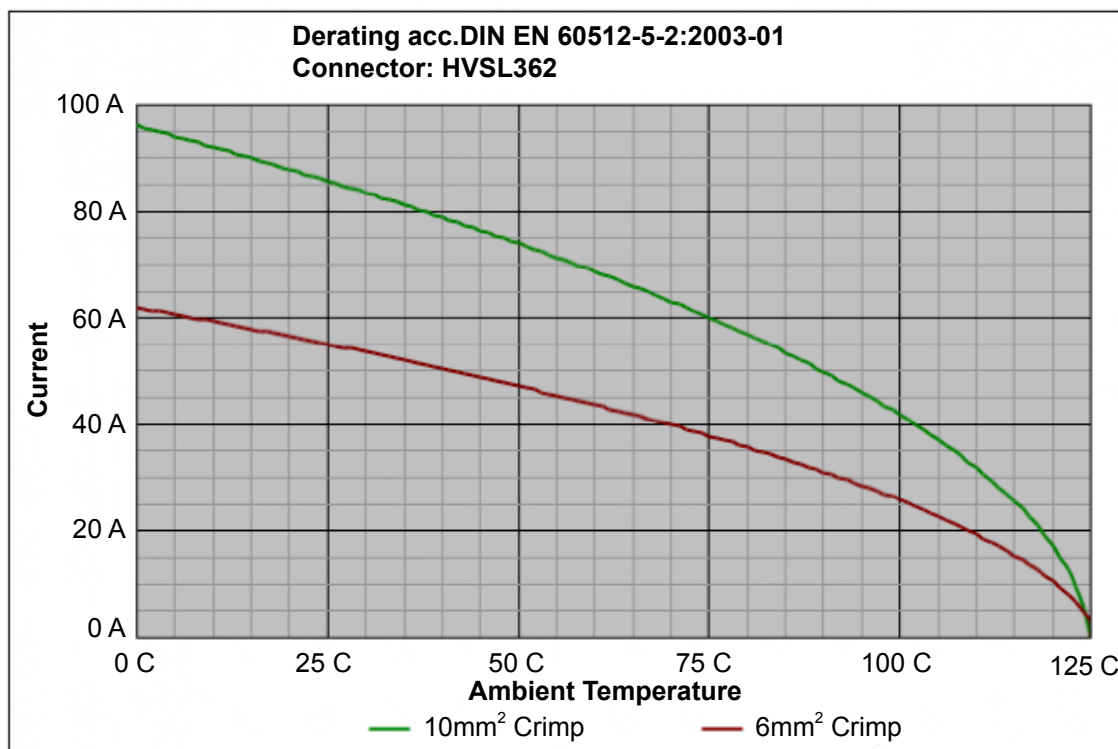
		HVSL362	02	2	A
Product type:	02: Box mounted receptacle				
Position:	2: 2 positions				
Coding / Alternate position:	A: Coding A B: Coding B C: Coding C D: Coding D E: Coding E				

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)

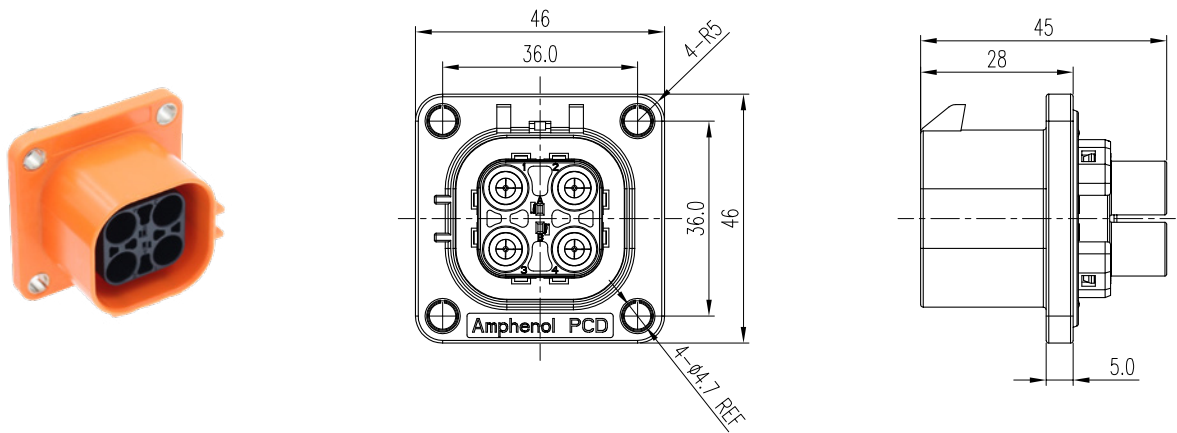
Touch-proof, IP2XB

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

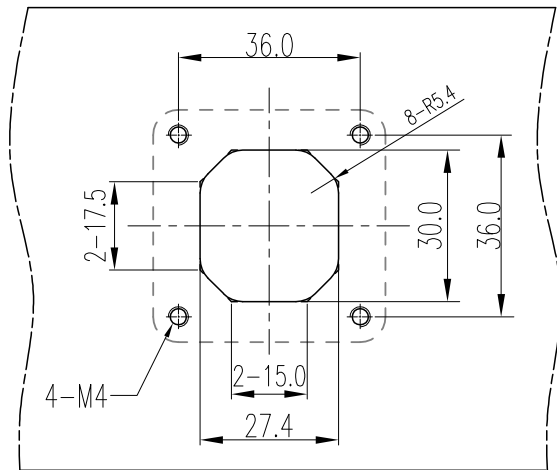
RECEPTACLE



CONTACTS

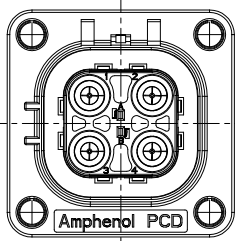
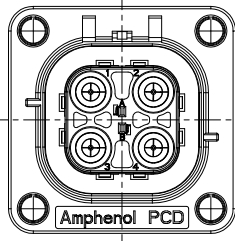
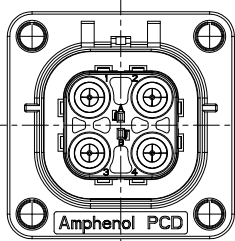
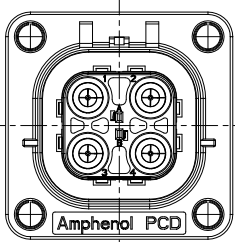
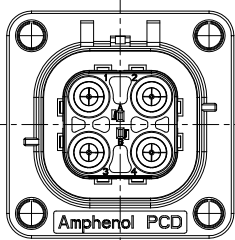
All connectors do not include contacts. Please order them separately (ref: P/N below)				
CONTACTS (Pin contact)				
HVIL CONTACTS	6mm ² (Machined)	6mm ² (Stamped)	4mm ²	2.5mm ²
P/N: C310003614S	P/N: C200012101	P/N: C310026000	P/N: C310026004	P/N: C310026006
6 to 10mm ² (Stamped)	16mm ² (Stamped)	Availability in terms of wire range		
P/N: C3100235011	P/N: P03BS00081	2.5mm² to 16mm² 3 to 4 PINS available		

PANEL MOUNTING DIMENSION

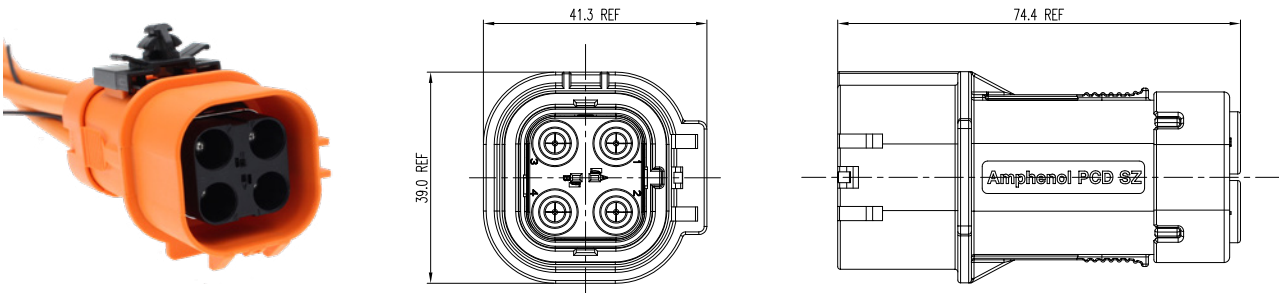


MOUNTING INTERFACE SPECIFICATION
RECOMMENDED THICKNESS:3.0mm Min

PANEL MOUNTING HOLES POSITIONS

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

RECEPTACLE IN-LINE



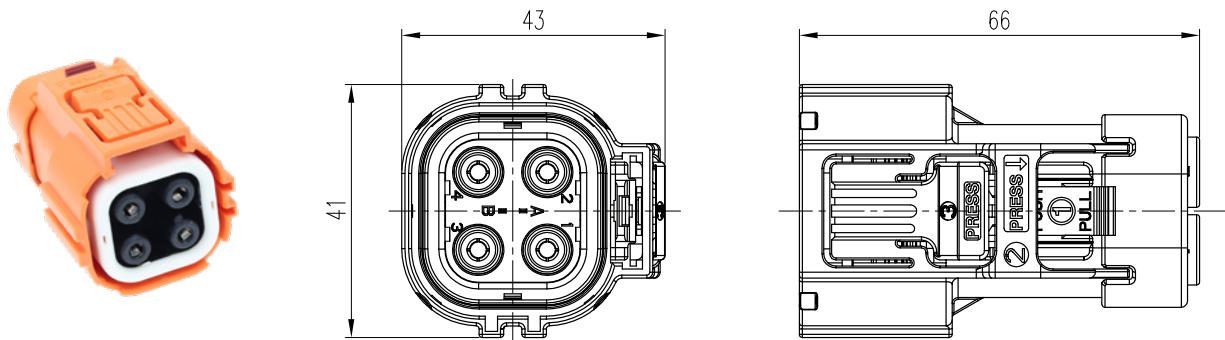
CONTACTS

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		
P/N: C3100235011	P/N: P03BS00081			
		2.5mm ² to 6mm ² 4 PINS only		
		10mm ² to 13.3mm ² (6AWG) 3 and 4 PINS both available		

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)

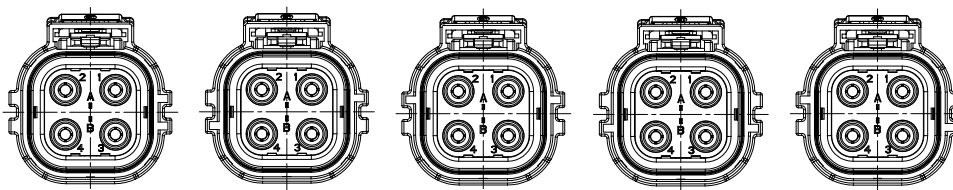
PLUG



CONTACTS

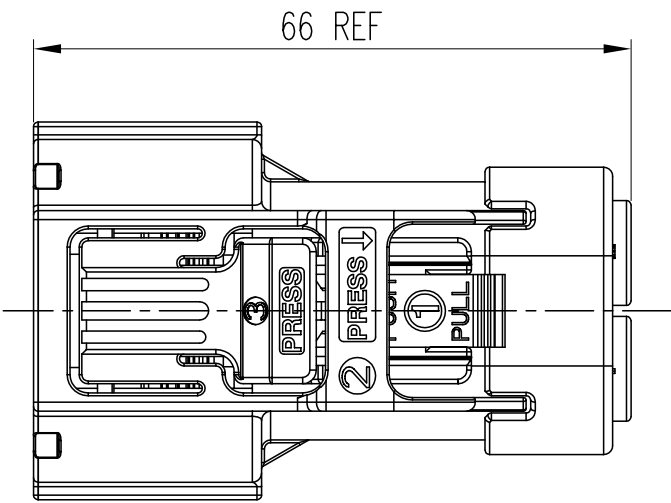
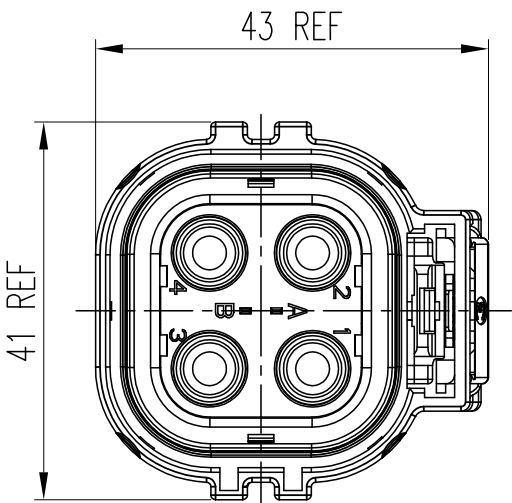
All connectors do not include contacts. Please order them separately (ref: P/N below)				
CONTACTS (Socket contact)				
HVIL CONTACTS	6mm ² (Machined)	6mm ² (Stamped)	4mm ²	2.5mm ²
Integrated, no need to buy. -	P/N: C200012102	P/N: C310026001	P/N: C310026005	P/N: C310026007
6 to 10mm ² (Stamped)		16mm 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 (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)

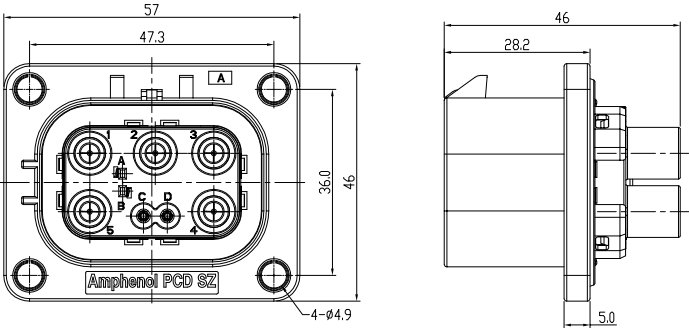
Touch-proof, IP2XB

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

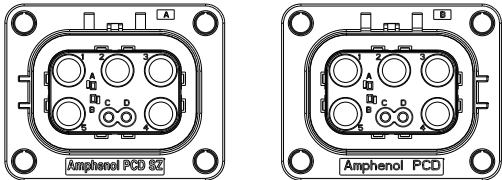


CONTACTS

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

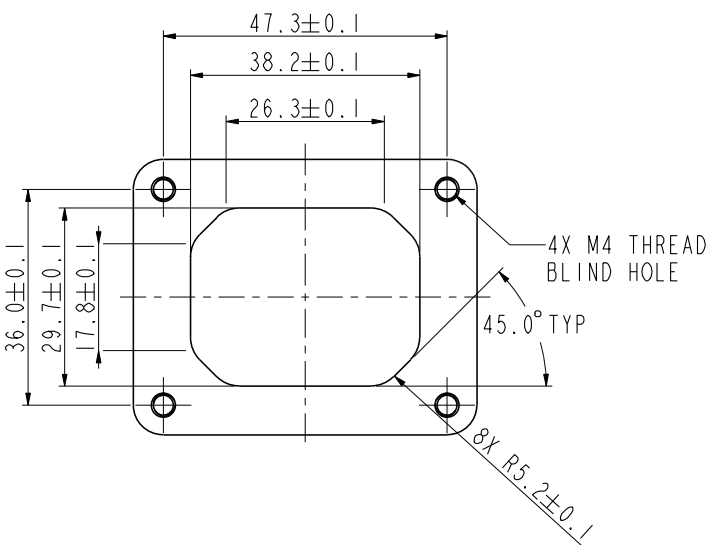
CONTACTS (Pin contact)			
HVIL contacts	2.5mm ²	4 to 6mm ²	Signal contacts
P/N: C310003614S	P/N: C310026002	P/N: C310026000	P/N: LVRC20SC01S

INSERT ORIENTATIONS



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

PANEL MOUNTING DIMENSION

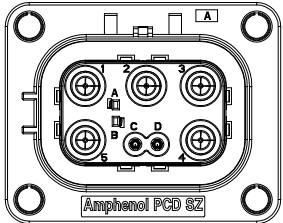


PANEL MOUNTING HOLES POSITIONS

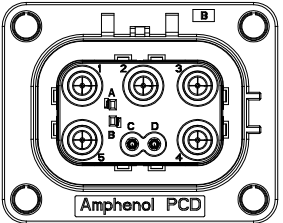
PART NUMBER

INSERT ORIENTATIONS

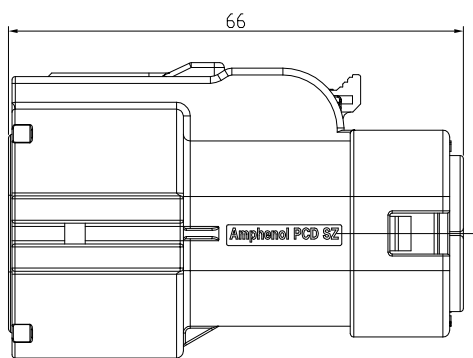
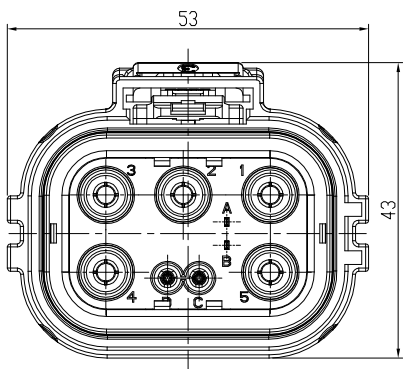
HVSL365 025 A



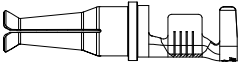
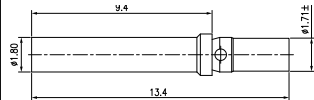
HVSL365 025 B



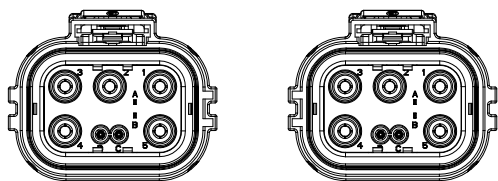
PLUG



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



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

HOW TO ORDER: PLUG

		HVSL365	06	5	A	0	04	I
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

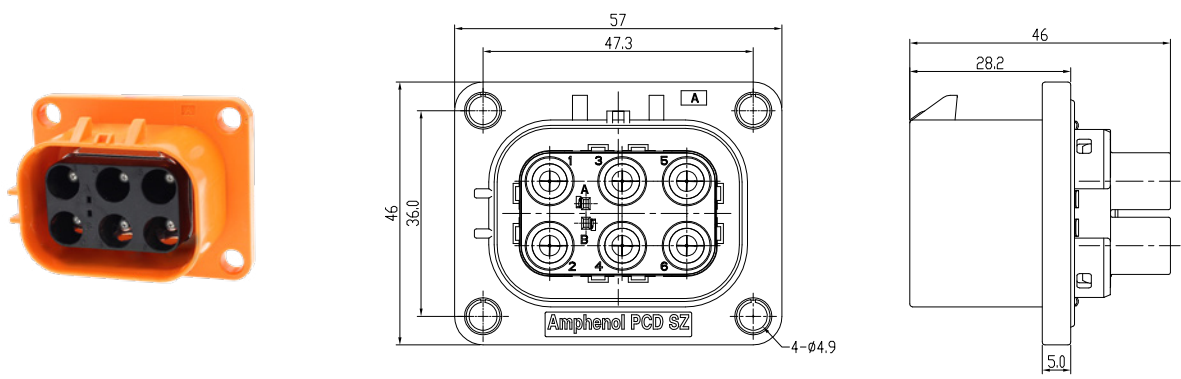
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

MATERIAL

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

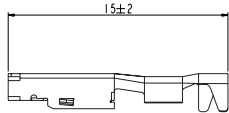
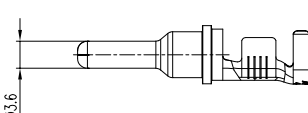
RECEPTACLE



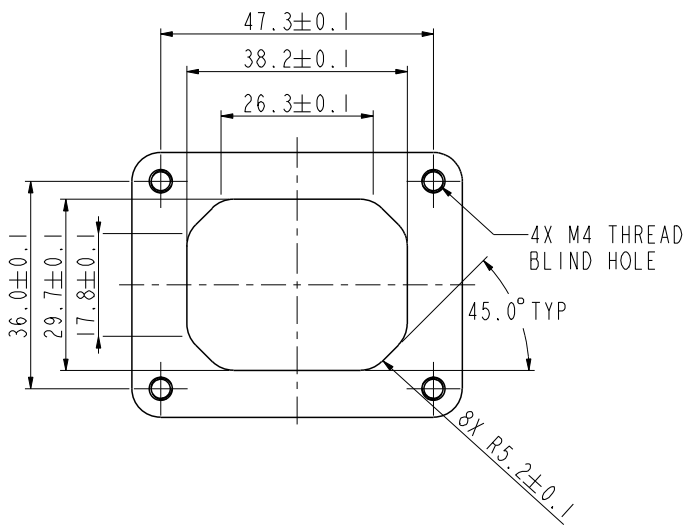
CONTACTS

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

CONTACTS (Pin contact)

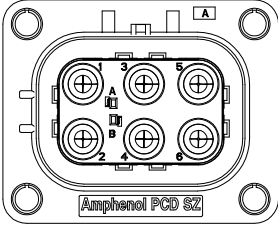
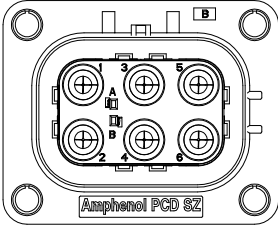
HVIL contacts	2.5mm ²	4 to 6mm ²
P/N: C310003614S	P/N: C310026002	P/N: C310026000
		

PANEL MOUNTING DIMENSION

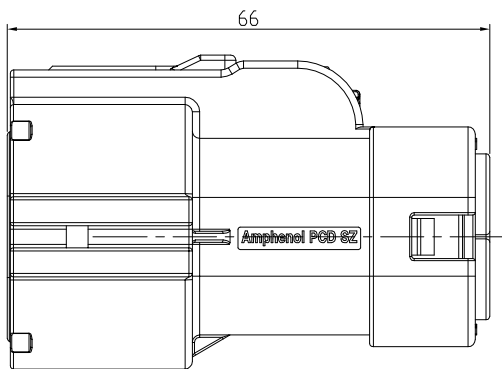
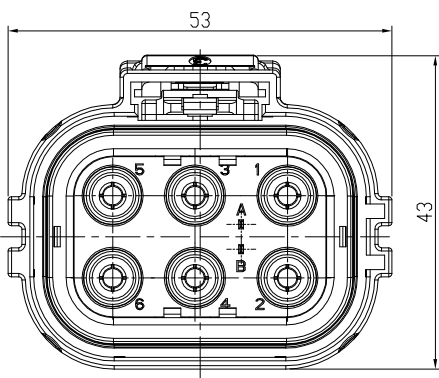


MOUNTING INTERFACE SPECIFICATION
RECOMMENDED THICKNESS:3.0mm Min

PANEL MOUNTING HOLES POSITIONS

PART NUMBER	INSERT ORIENTATIONS
HVSL366 026 A	
HVSL366 026 B	

PLUG



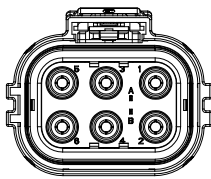
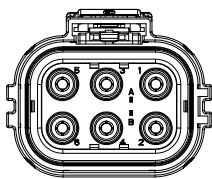
CONTACTS

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
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

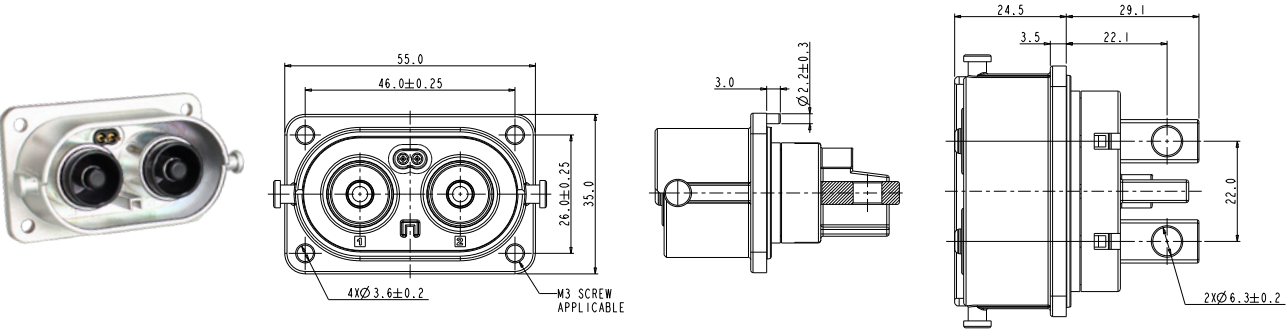
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS

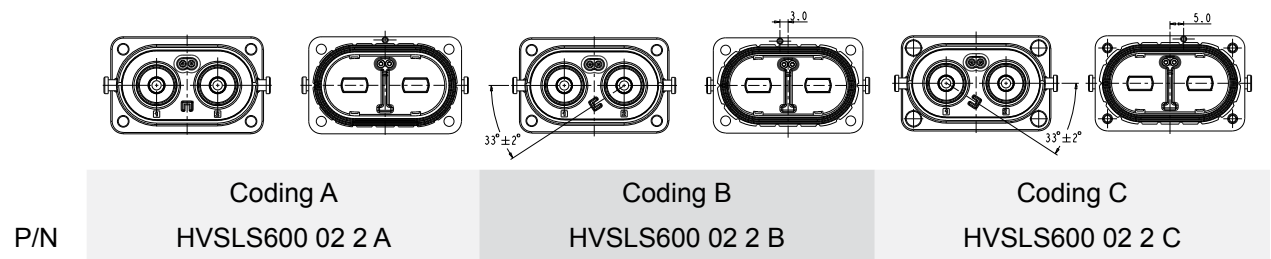
MATERIAL

Terminals	Copper/copper alloy with silver plating
Housing	Zinc alloy

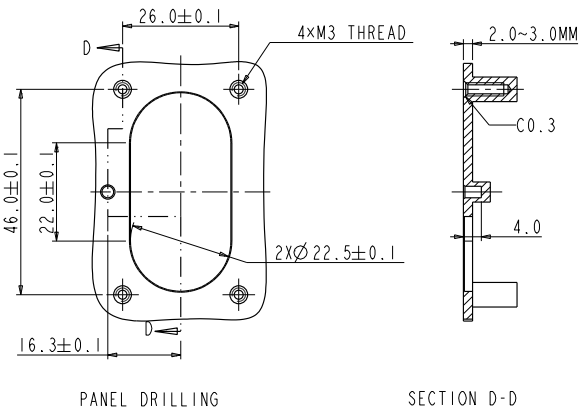
2 PIN RECEPTACLE



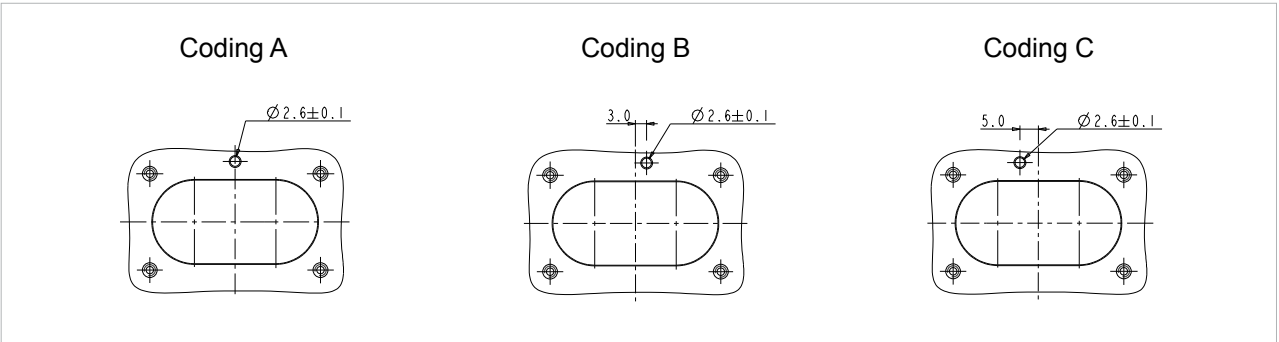
INSERT ORIENTATIONS



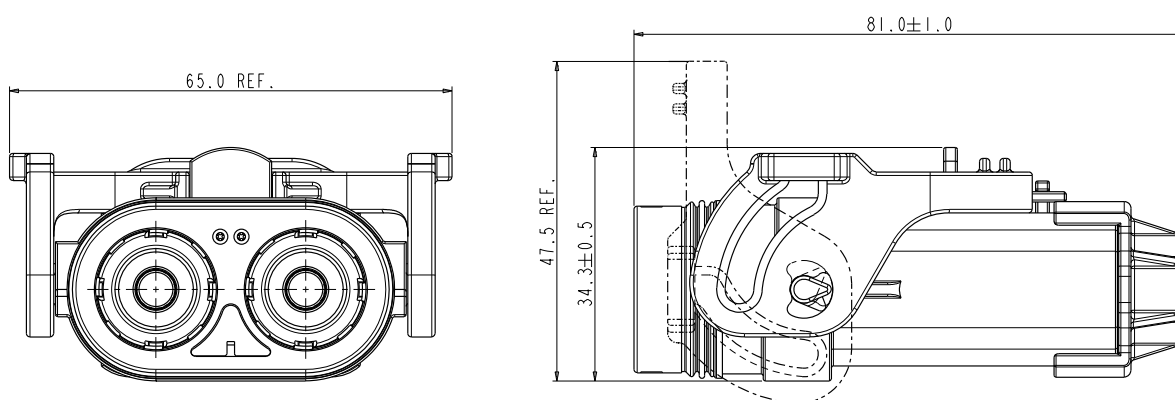
PANEL MOUNTING DIMENSIONS



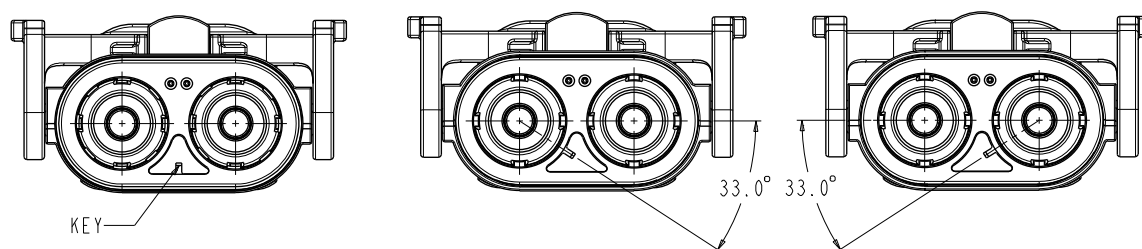
INSERT ORIENTATIONS



2 PIN STRAIGHT PLUG

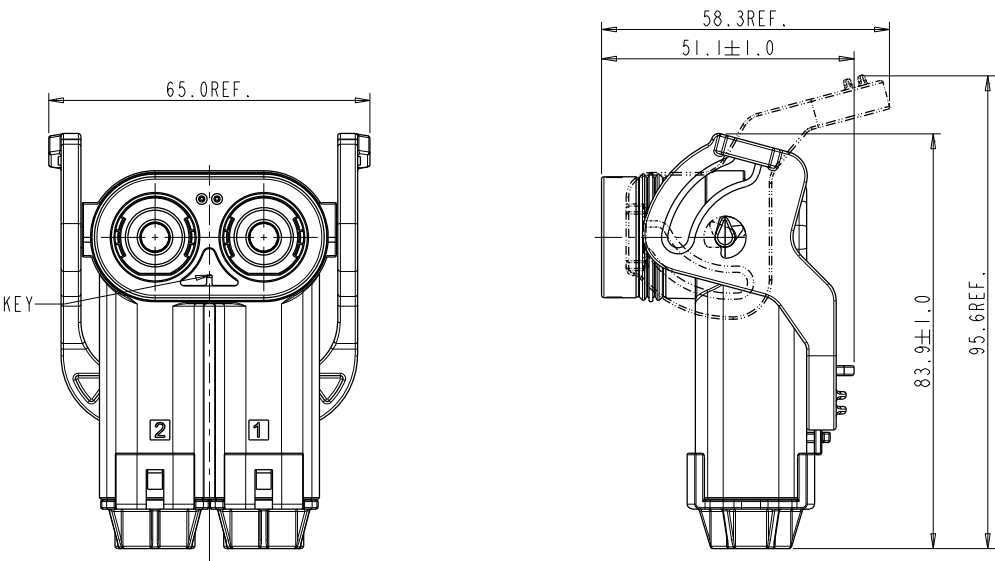


INSERT ORIENTATIONS

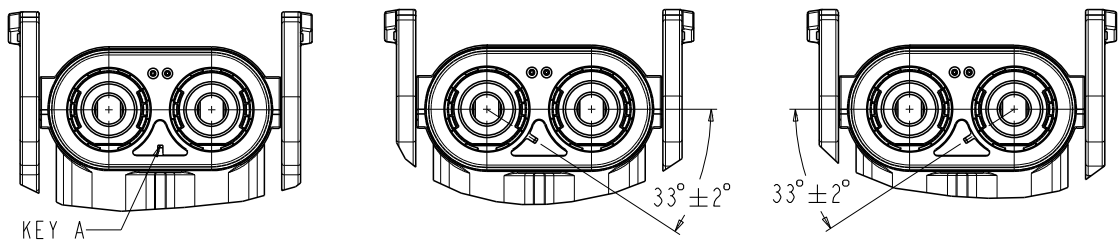


	Coding A	Coding B	Coding C
P/N	HVSLS600 06 2 A	HVSLS600 06 2 B	HVSLS600 06 2 C

2 PIN RIGHT ANGLE PLUG

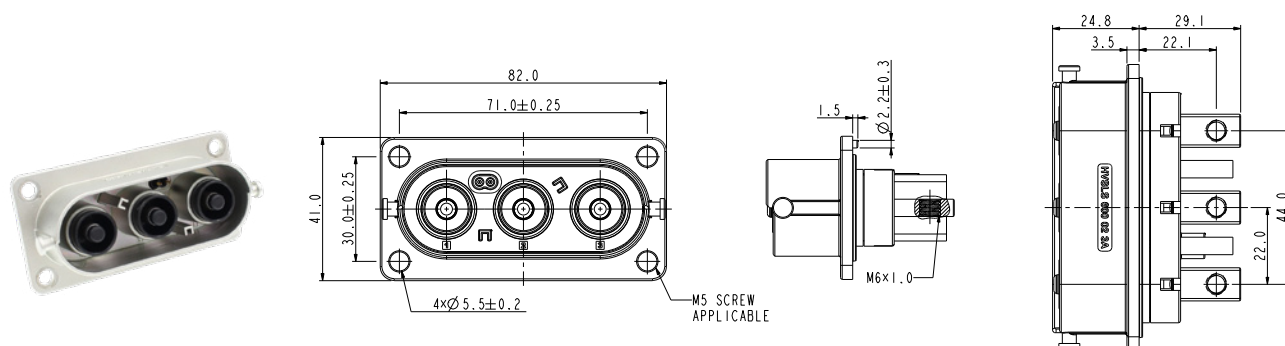


INSERT ORIENTATIONS

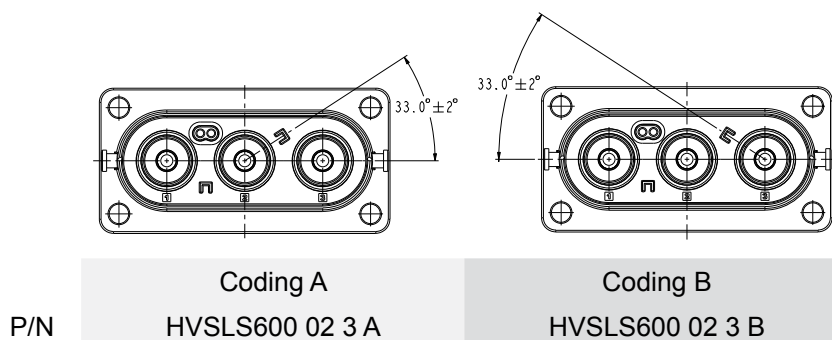


	Coding A	Coding B	Coding C
P/N	HVSLS600 08 2 A	HVSLS600 08 2 B	HVSLS600 08 2 C

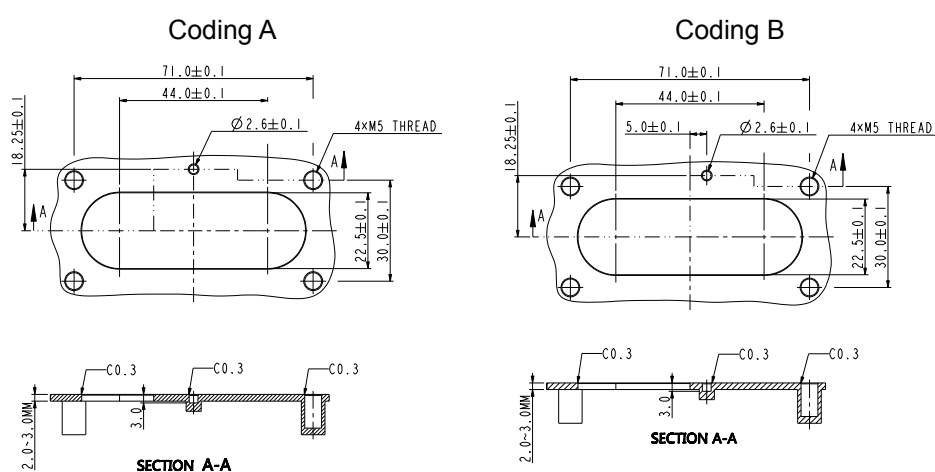
3 PIN RECEPTACLE



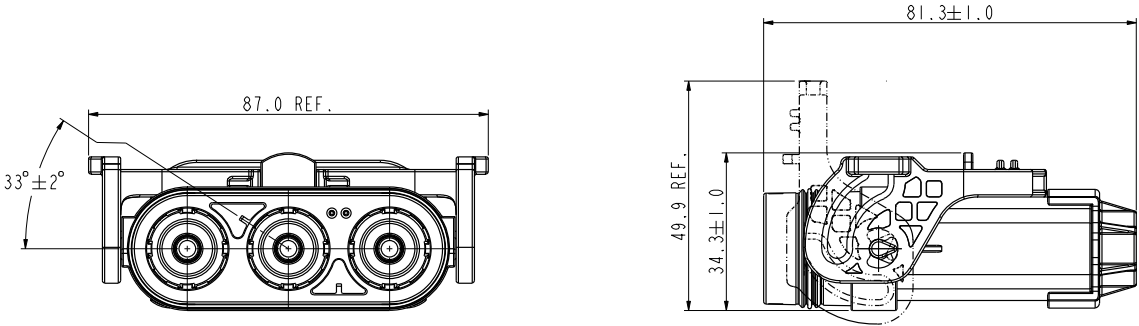
INSERT ORIENTATIONS



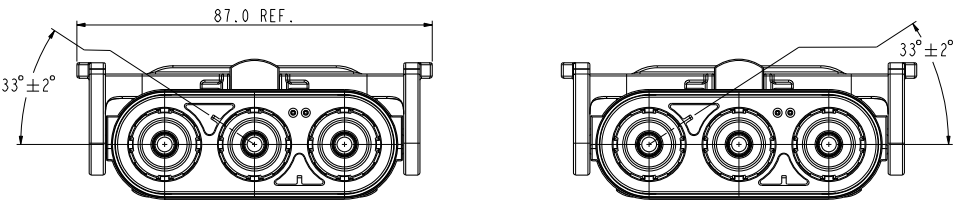
PANEL MOUNTING DIMENSIONS



3 PIN STRAIGHT PLUG

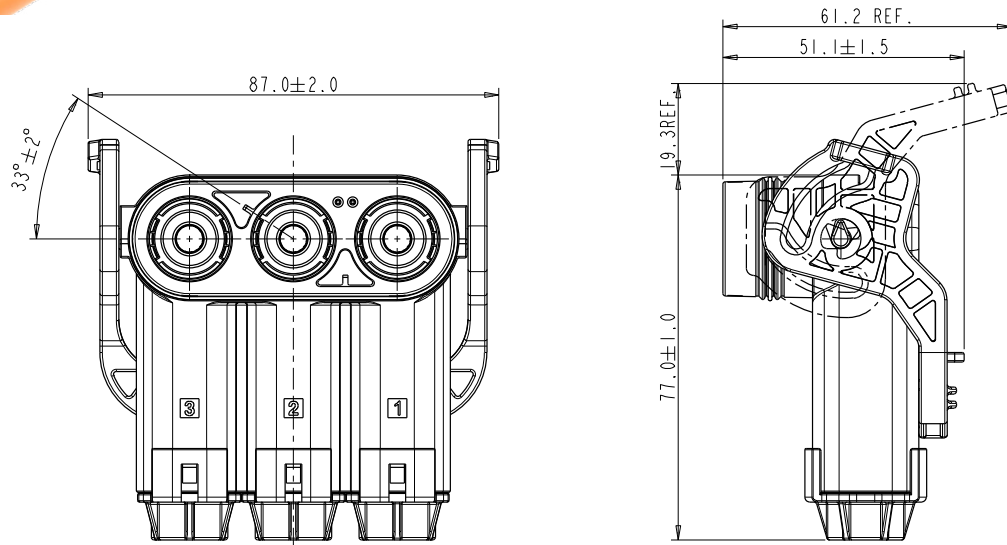


INSERT ORIENTATIONS

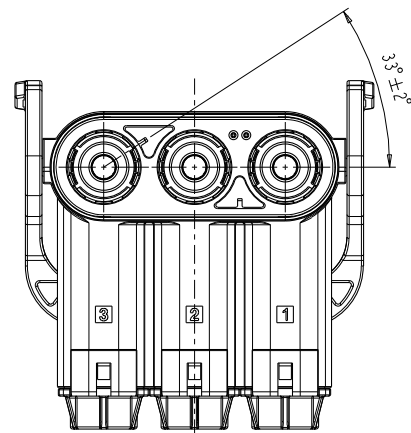
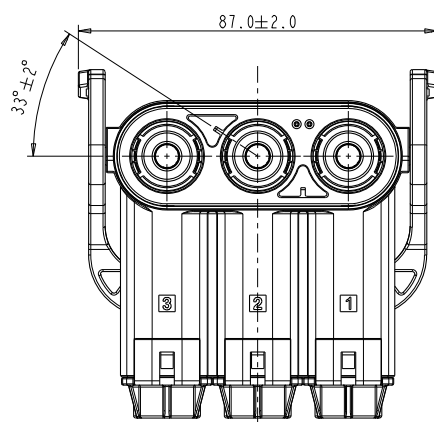


	Coding A	Coding B
P/N	HVSLS600 06 3 A	HVSLS600 06 3 B

3 PIN RIGHT ANGLE PLUG

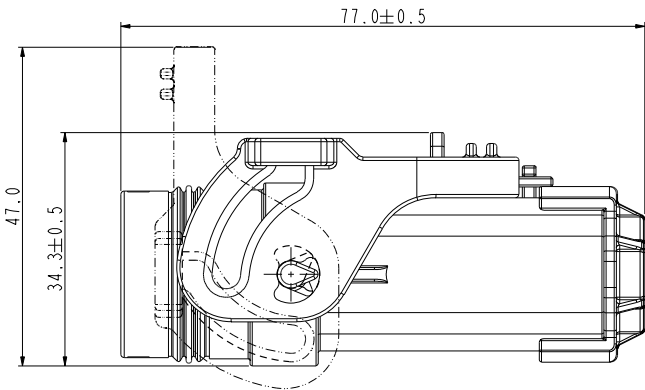
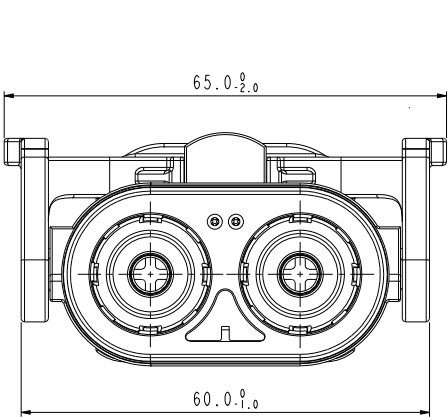


INSERT ORIENTATIONS



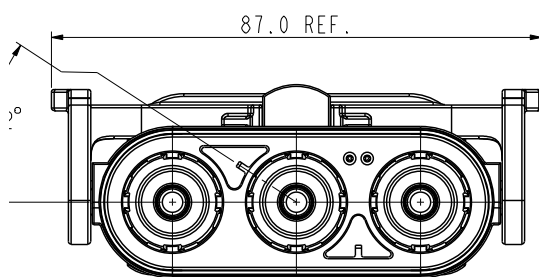
	Coding A	Coding B
P/N	HVSL600 08 3 A	HVSL600 08 3 B

DUMMY PLUG - 2PIN

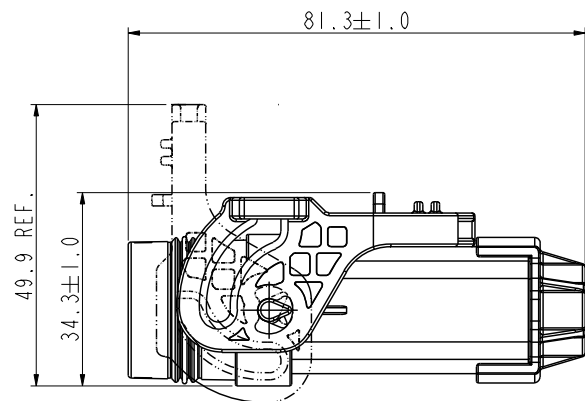


	HVSLS600	06	2	A	0	S03
Product type:						
06: Straight plug						
Position:						
2: 2 position						
Coding / Alternate position:						
A: Coding A						
B: Coding B						
C: Coding C						
Interlock:						
0: Without interlock 1: With interlock						
Dummy plug:						
S03						

DUMMY PLUG - 3PIN

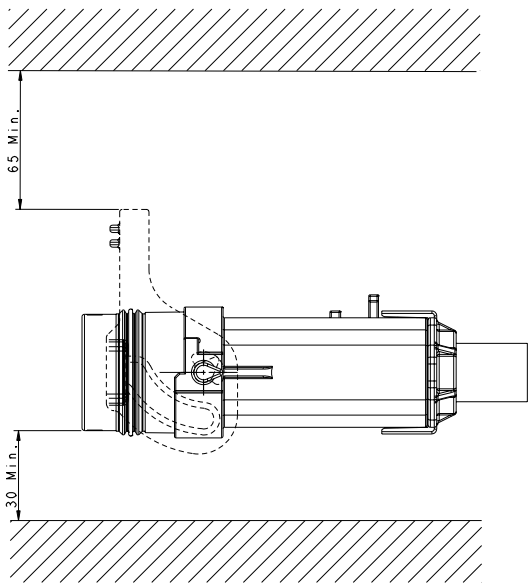


CODING A



	HVSLS600	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



Remark:

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

TOOL FOR RIGHT ANGLE PLUGS

Tool for locking contacts: HVSLP033002



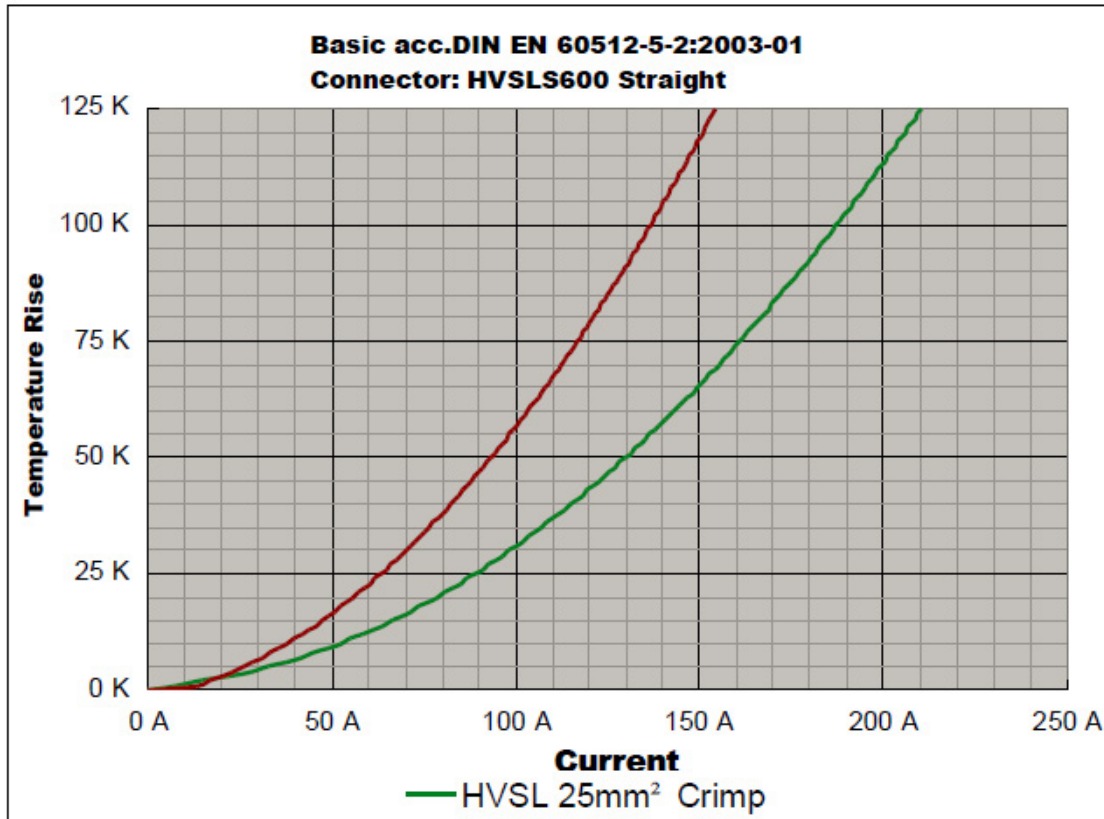
HOW TO ORDER: PLUG

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						

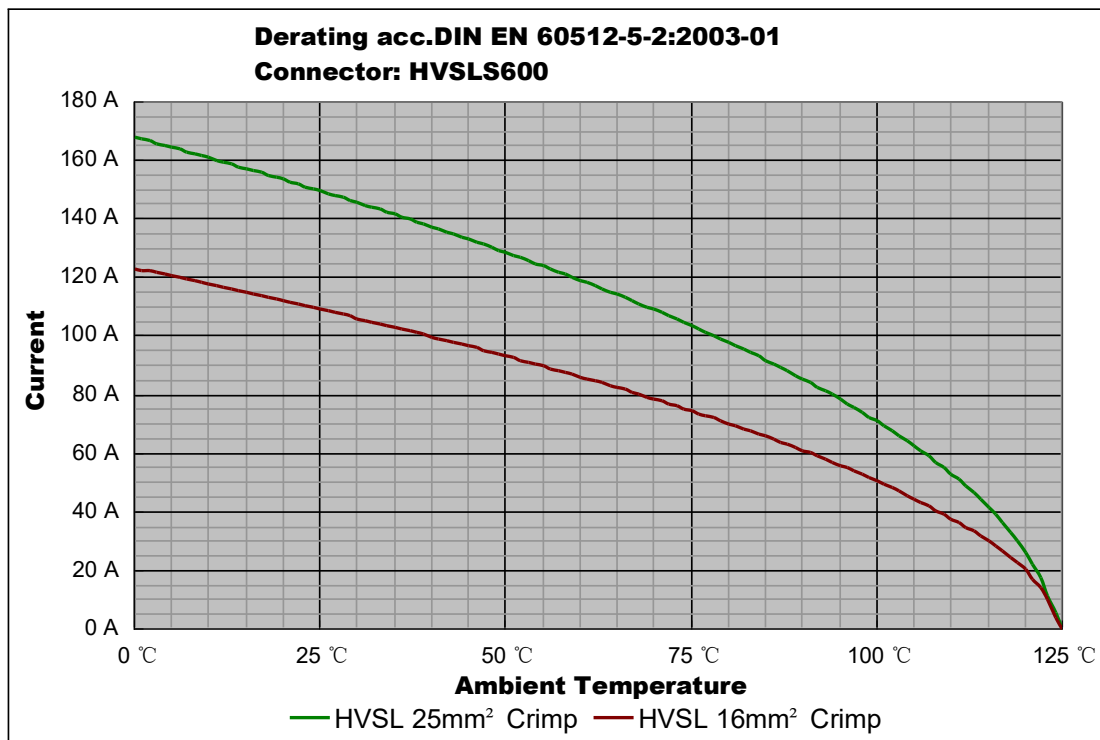
HOW TO ORDER: RECEPTACLE

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						

HVSLS 600 | Temperature Rise



HVSLS 600 | Derating Curve



Remark: tests carried out on the complete connector.

EXCEL | MATE Metal (HVSLS 800)

EXCEL | MATE Metal (HVSLS 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.

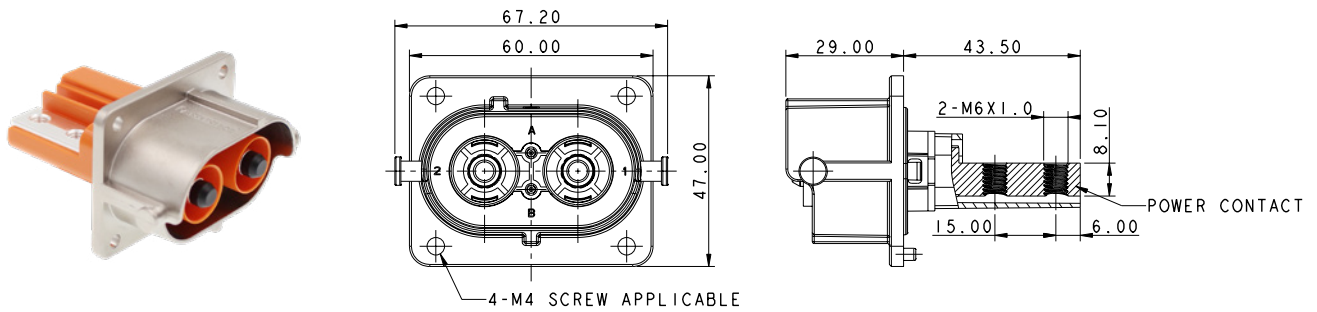
Specially designed for battery, inverters, junction boxes, power distribution boxes and others HEV devices' equipment.

KEY FEATURES

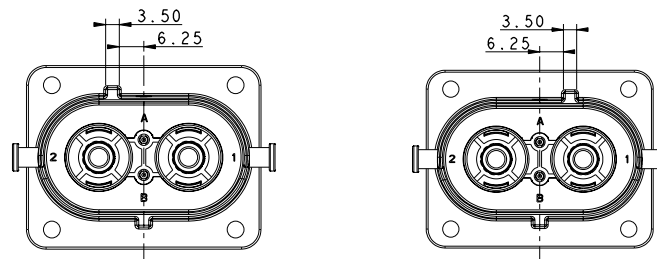
- Integrated internal HVIL
- Current rating up to 180A@ ambient temperature 70°C
- No tool required to unmate
- Sealing, IP67 (mated), IP6K9K
- Touch-proof, IP2XB
- Multiple coding positions
- CPA available

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

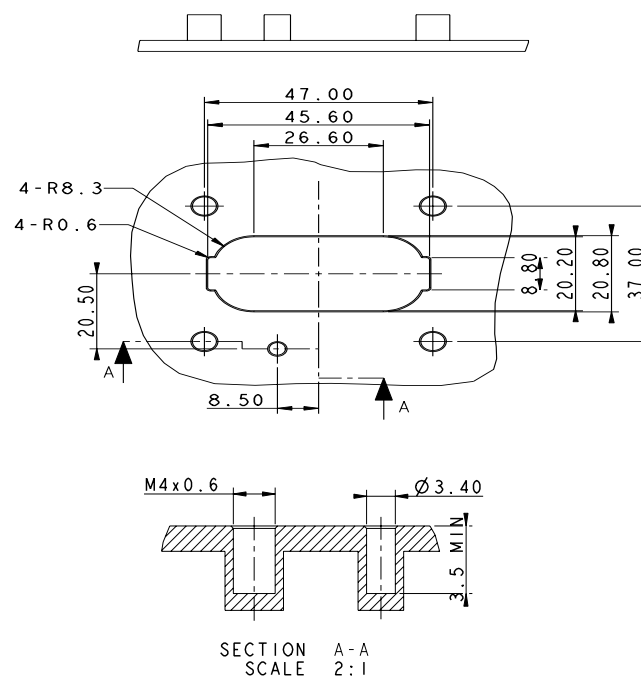


INSERT ORIENTATIONS

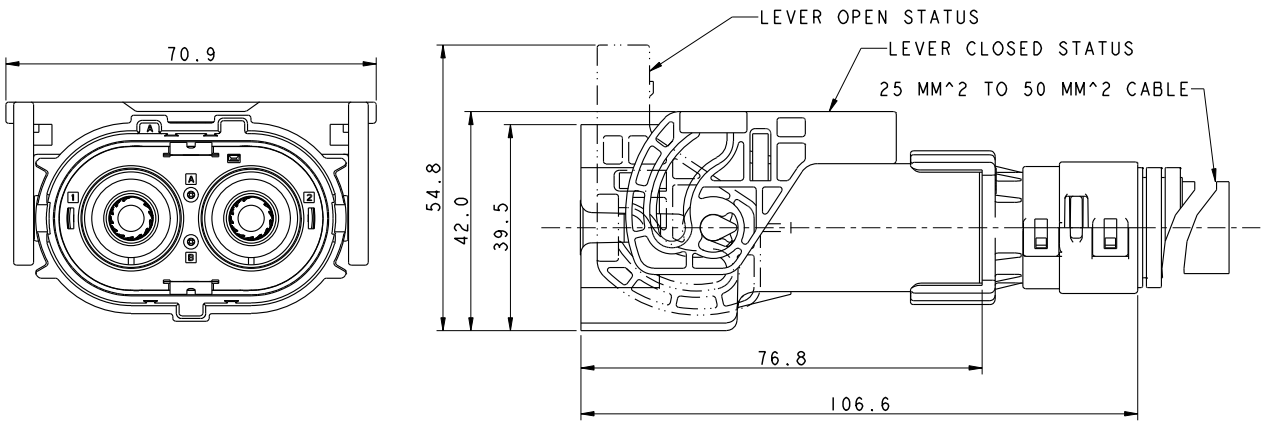


	Coding A	Coding B
P/N	HVSL800 02 2 A	HVSL800 02 2 B

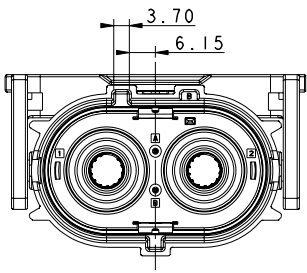
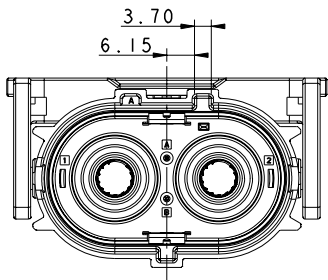
PANEL MOUNTED DIMENSIONS



STRAIGHT PLUG

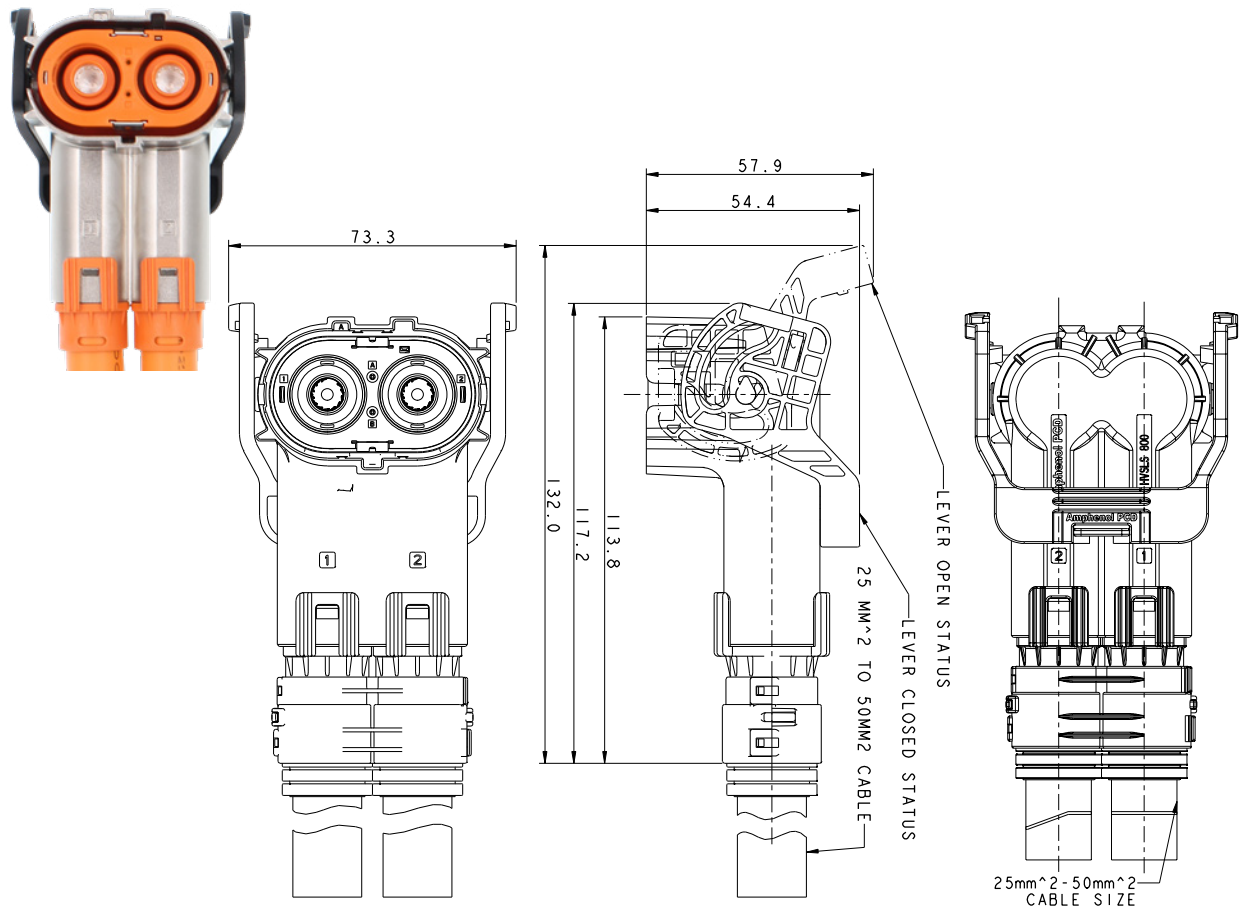


INSERT ORIENTATIONS

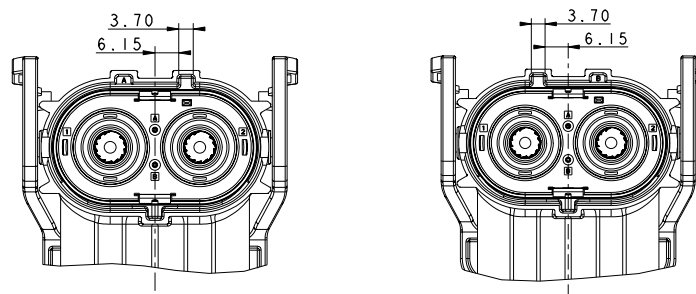


	Coding A	Coding B
P/N	HVSLS800 06 2 A	HVSLS800 06 2 B

PLUG RIGHT ANGLE

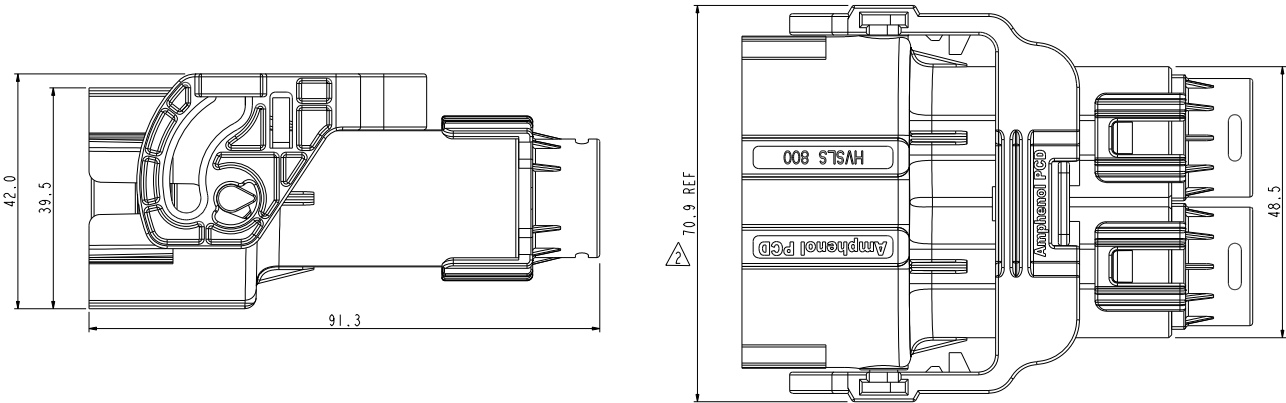


INSERT ORIENTATIONS



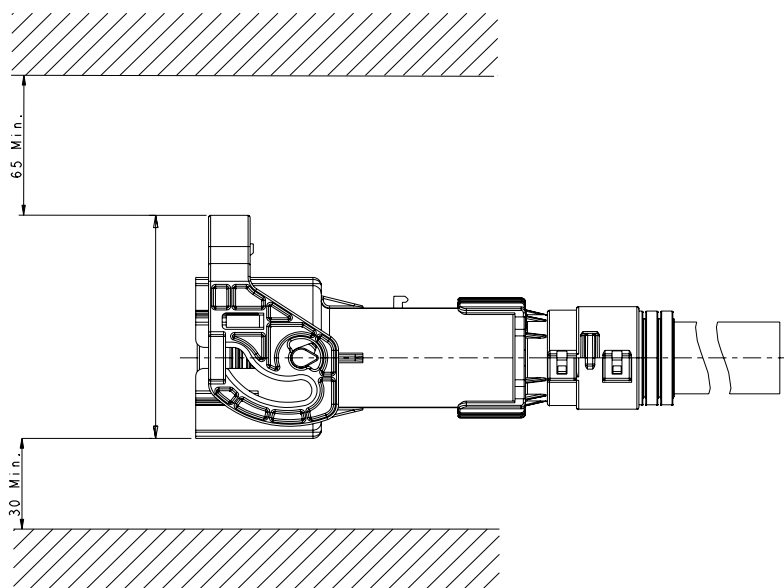
	Coding A	Coding B
P/N	HVSLS800 08 2 A	HVSLS800 08 2 B

DUMMY PLUG - 2PIN



	HVSL S 800	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

HVSLS800	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

HVSLS800	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 (HVSLS 8003)

EXCEL | MATE Metal (HVSLS 8003)



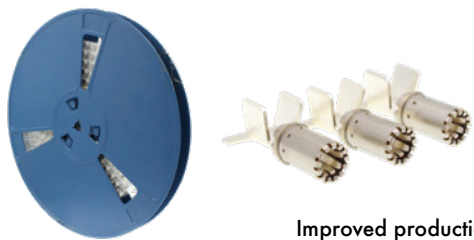
EXCEL | MATE Metal

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

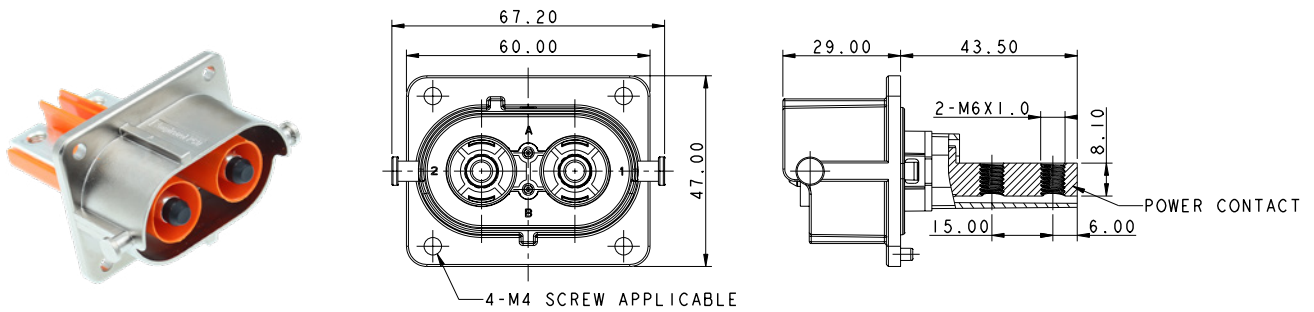
- Integrated internal HVIL
- Current rating up to 180 A@ ambient temperature 70°C
- No tool required to unmate
- Sealing, IP67 (mated), IP6K9K
- Touch-proof, IP2XB
- Multiple coding positions
- CPA available



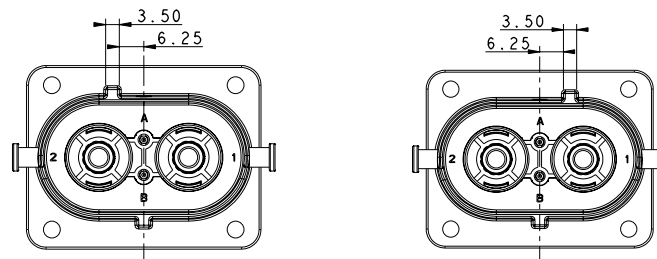
Improved production efficiency. Automated tape and reel packaging.

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



P/N

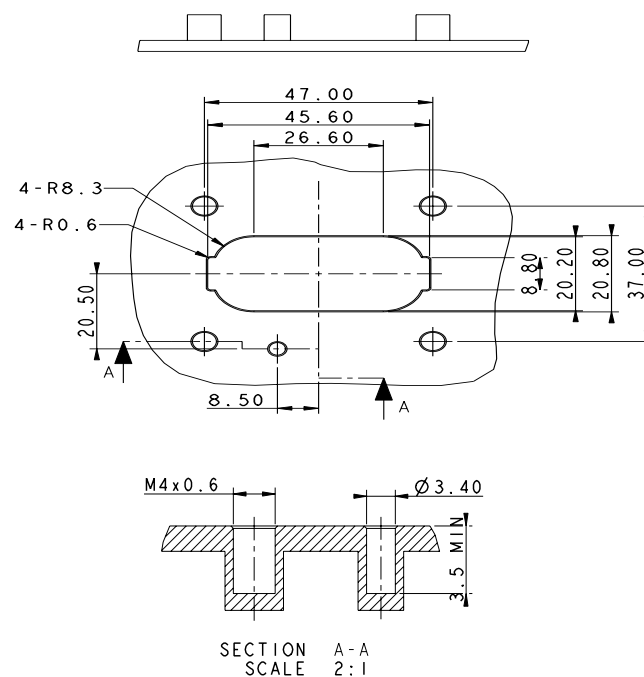
Coding A

HVSL8003 2 2 A

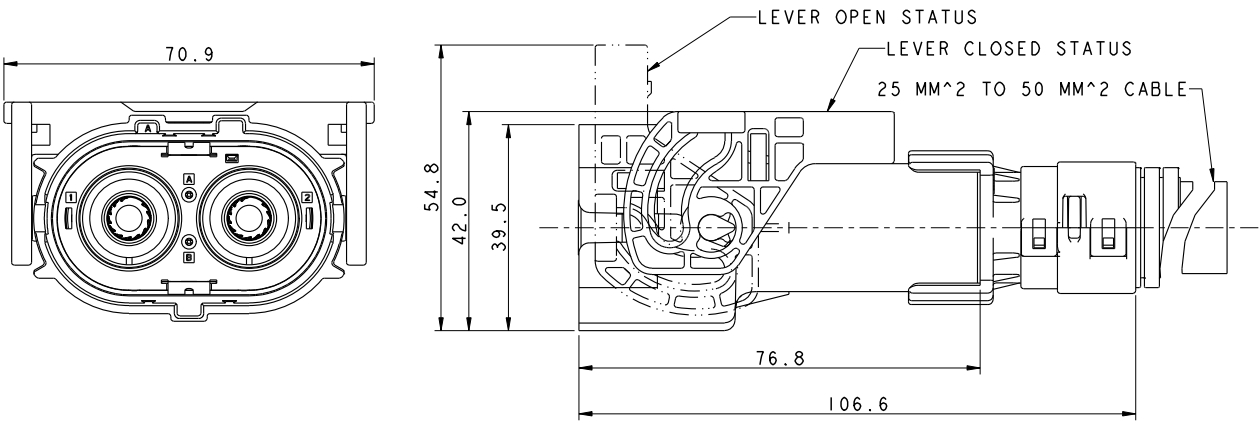
Coding B

HVSL8003 2 2 B

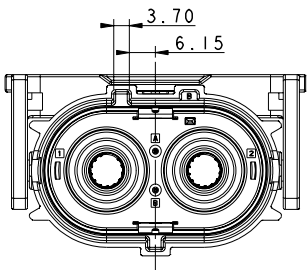
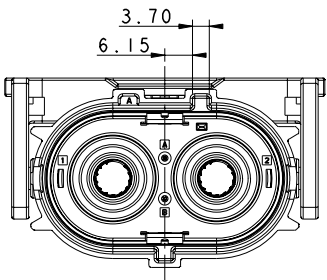
PANEL MOUNTED DIMENSIONS



STRAIGHT PLUG

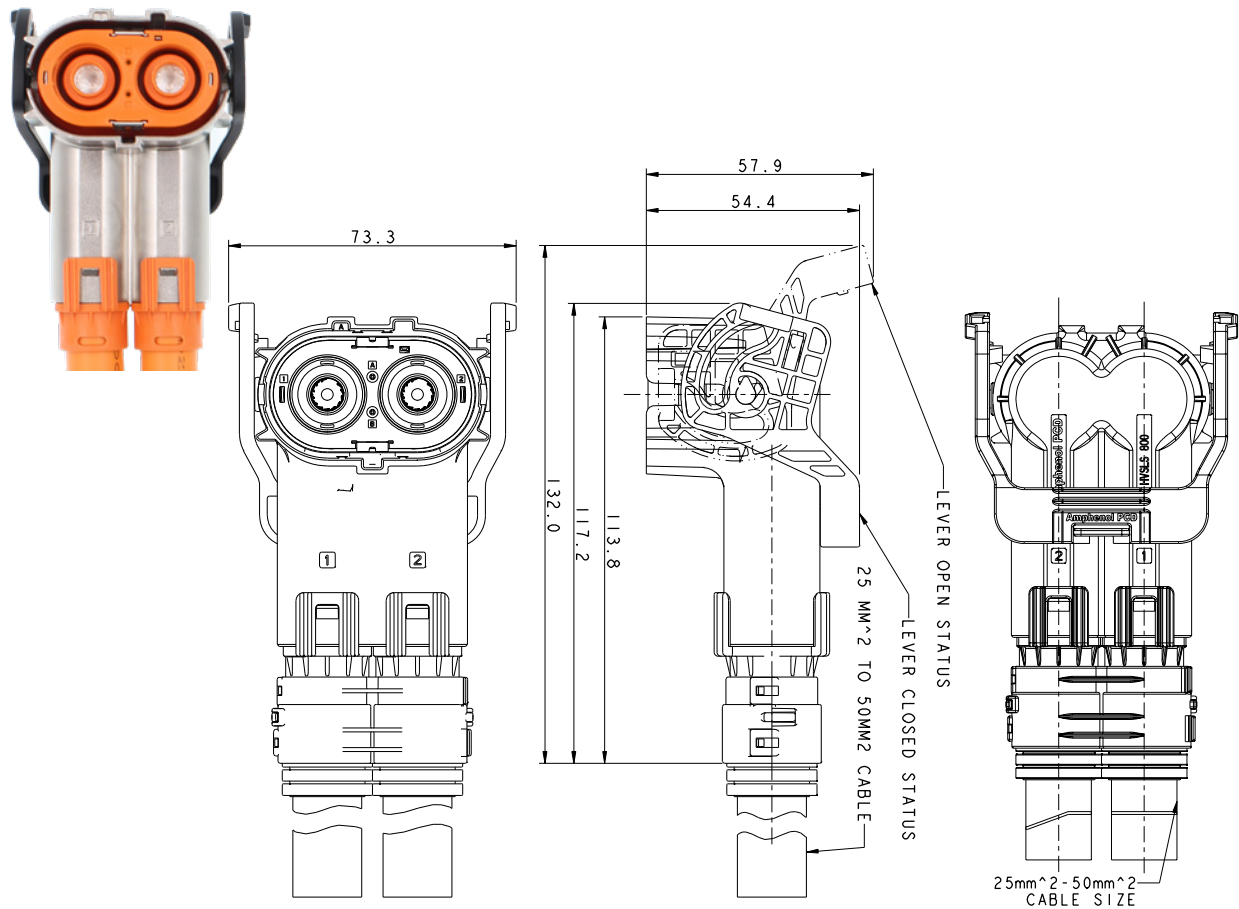


INSERT ORIENTATIONS

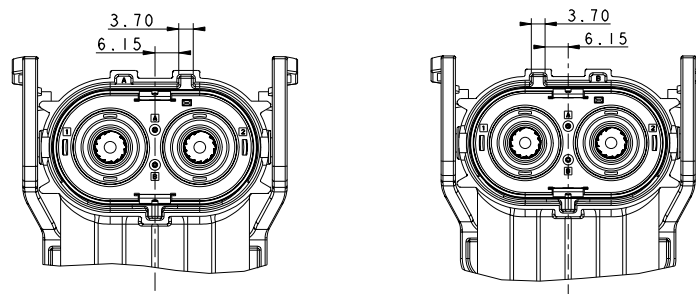


	Coding A	Coding B
P/N	HVSLS8003 6 2 A	HVSLS8003 6 2 B

RIGHT ANGLE PLUG

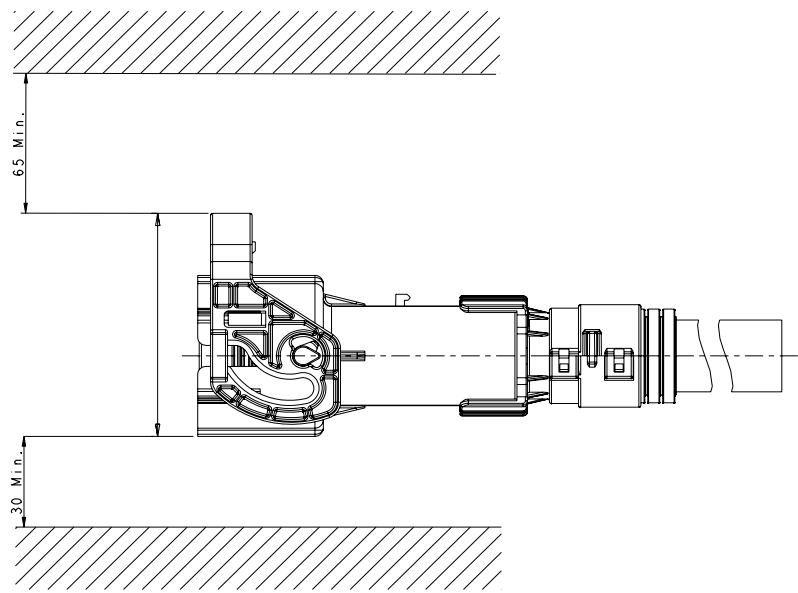


INSERT ORIENTATIONS



	Coding A	Coding B
P/N	HVSLS8003 8 2 A	HVSLS8003 8 2 B

INSTALLATION CLEARANCE



HOW TO ORDER: PLUG

	HVSLS8003	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

	HVSLS8003	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)



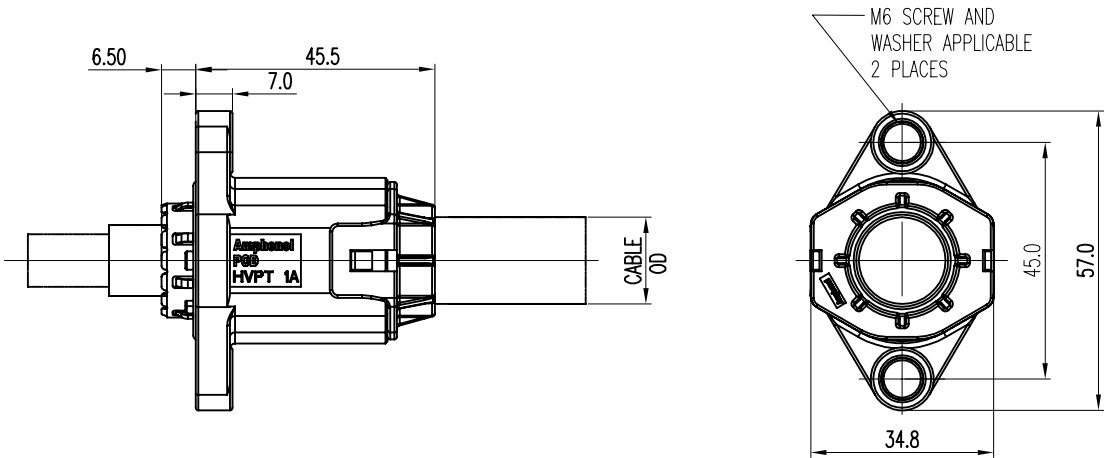
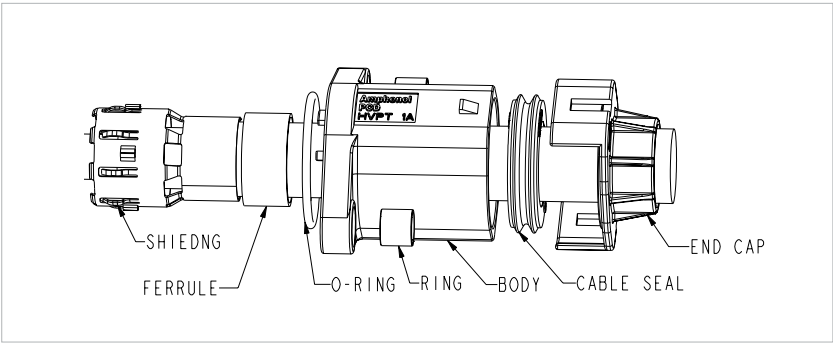
KEY FEATURES

- 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)

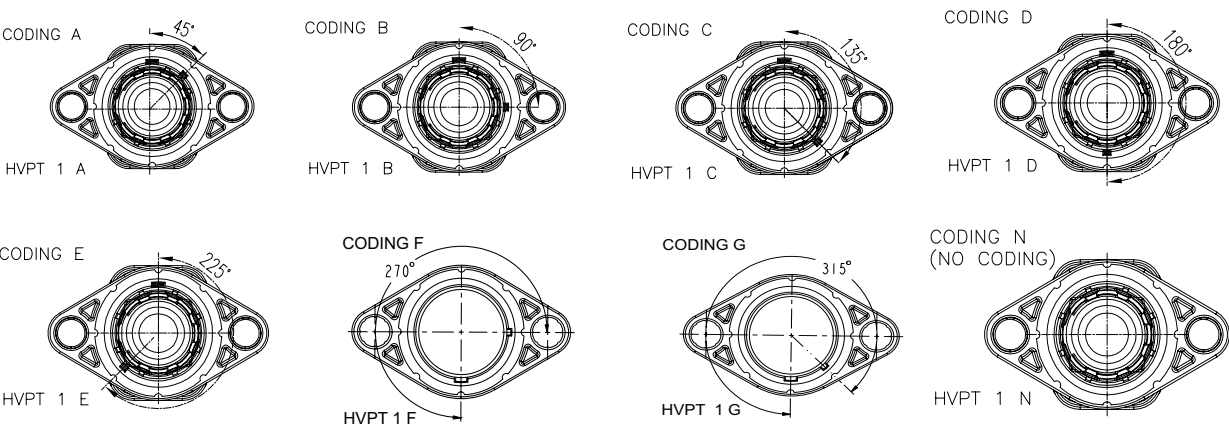
1 POSITION PASS-THROUGH



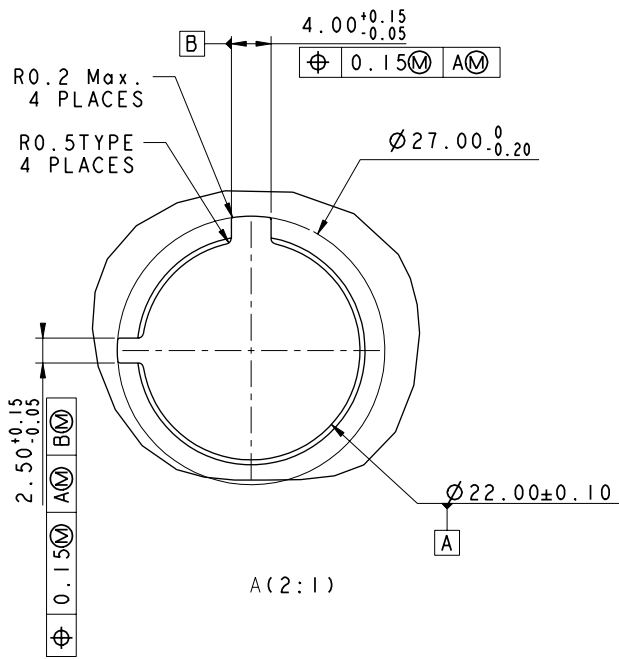
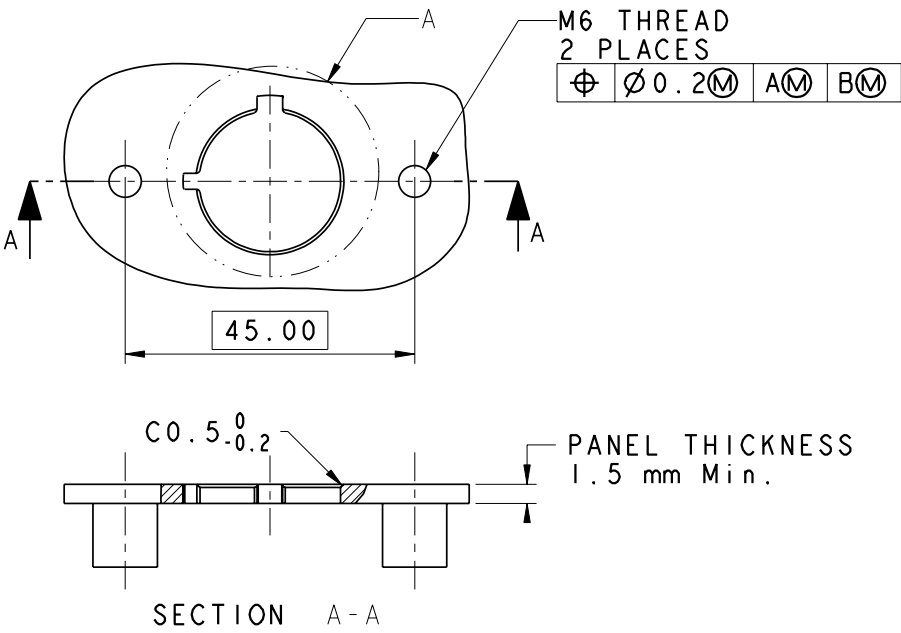
CONTACTS

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

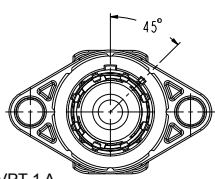


PANEL MOUNTING DIMENSIONS



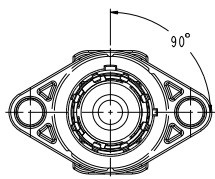
PANEL MOUNTING DIMENSIONS

CODING A



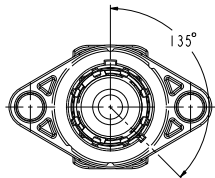
HVPT 1 A

CODING B



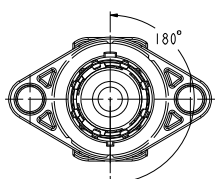
HVPT 1 B

CODING C



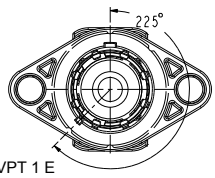
HVPT 1 C

CODING D



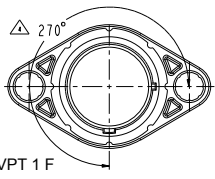
HVPT 1 D

CODING E



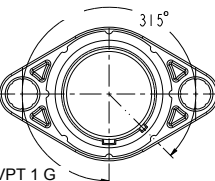
HVPT 1 E

CODING F



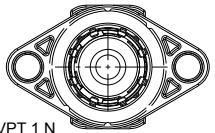
HVPT 1 F

CODING G



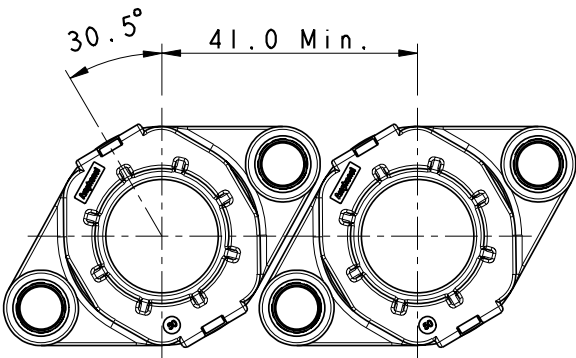
HVPT 1 G

NO CODING (N)

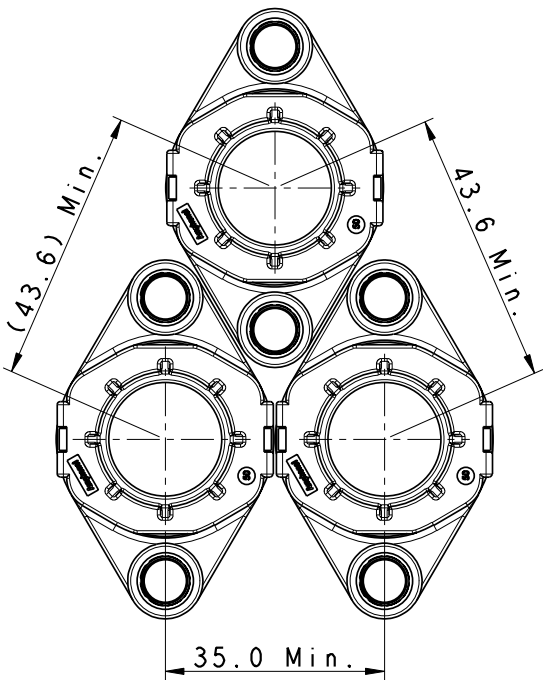


HVPT 1 N

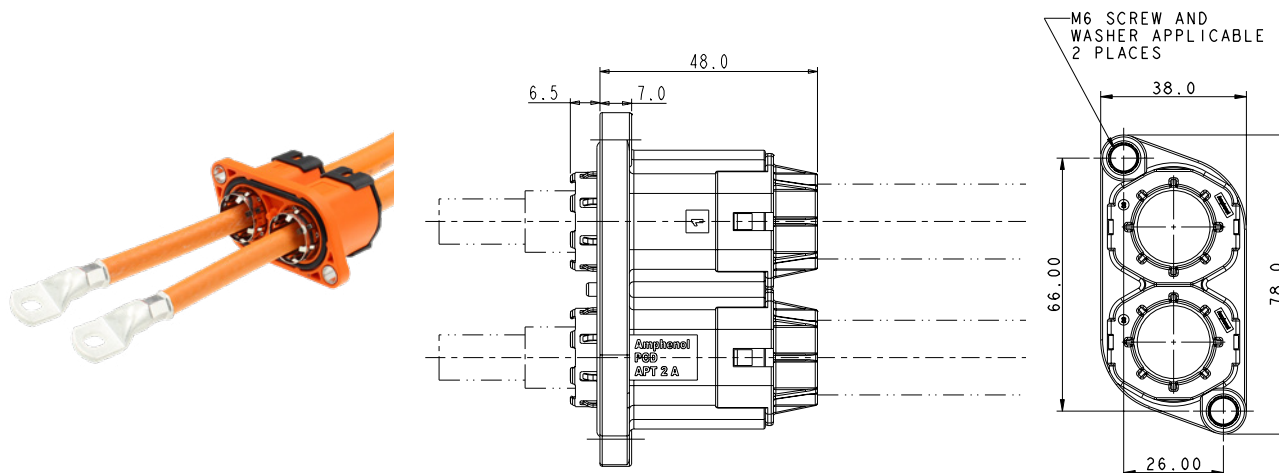
RECOMMENDED LAYOUT FOR 2 UNITS



RECOMMENDED LAYOUT FOR 3 UNITS



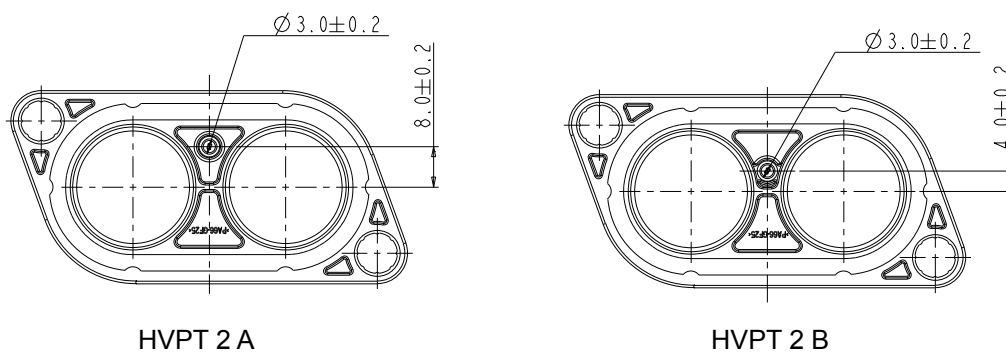
2 POSITION PASS-THROUGH



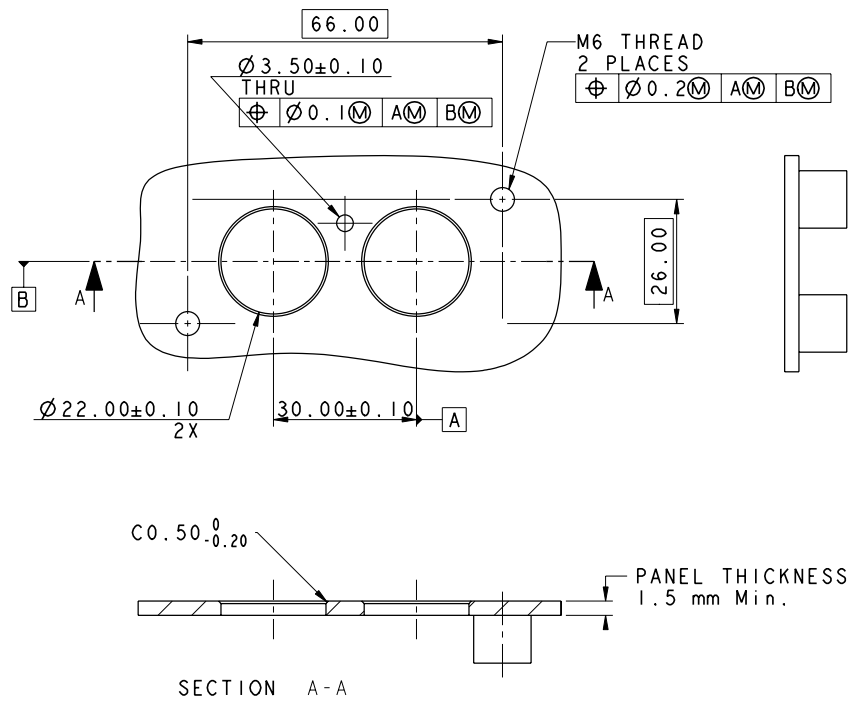
CONTACTS

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

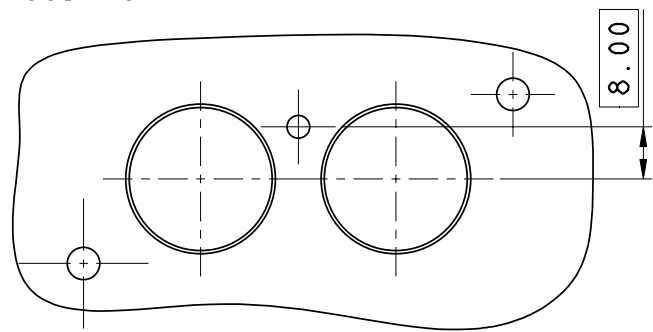
INSERT ORIENTATIONS



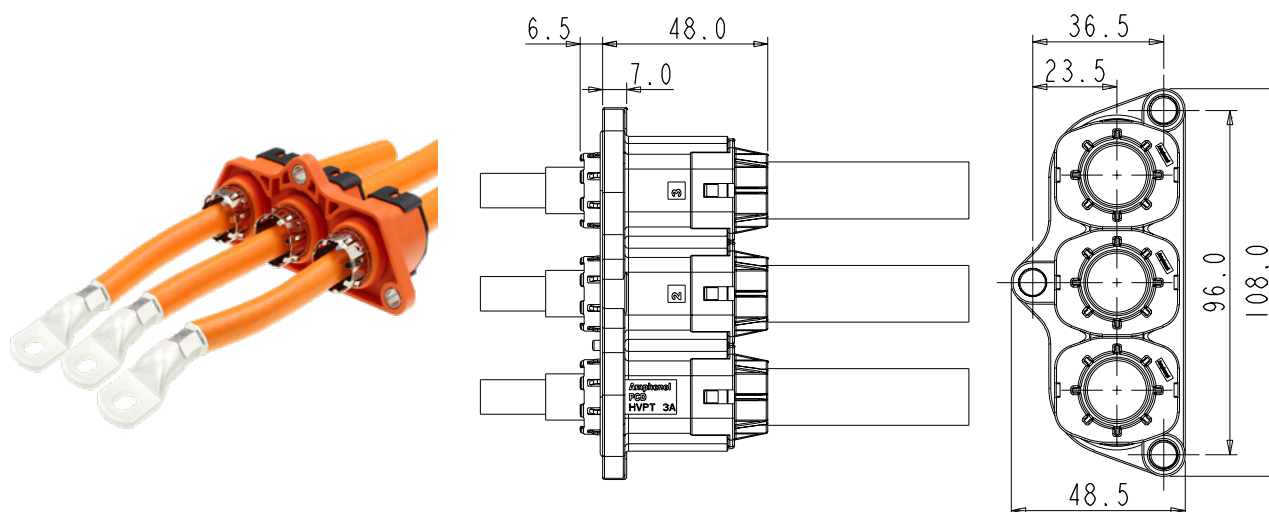
PANEL MOUNTING DIMENSION



CODING A



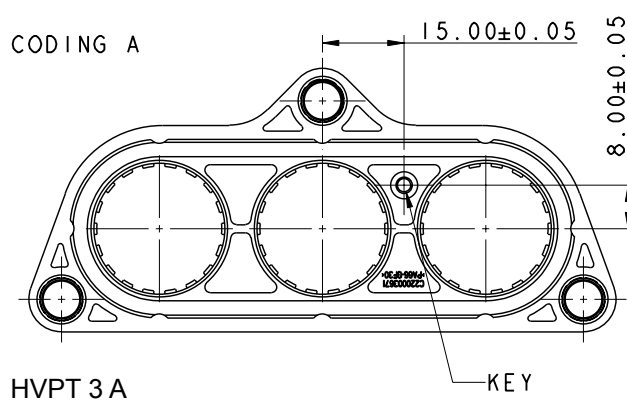
3 POSITION PASS-THROUGH



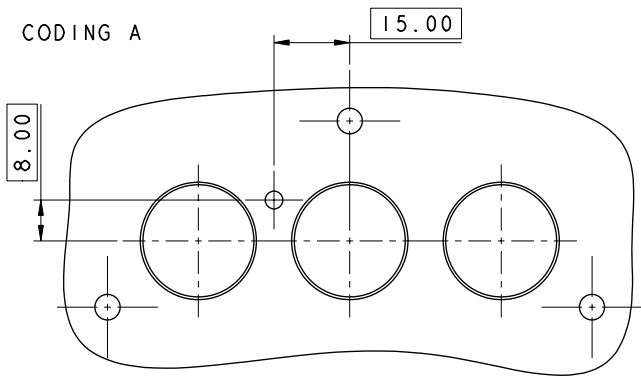
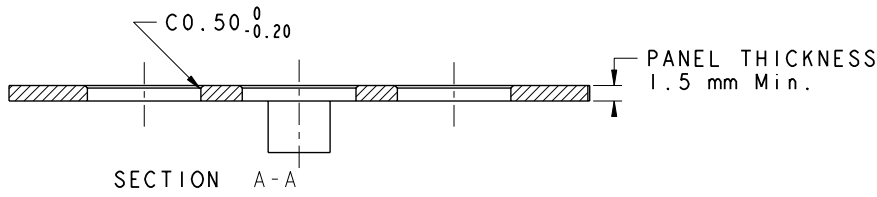
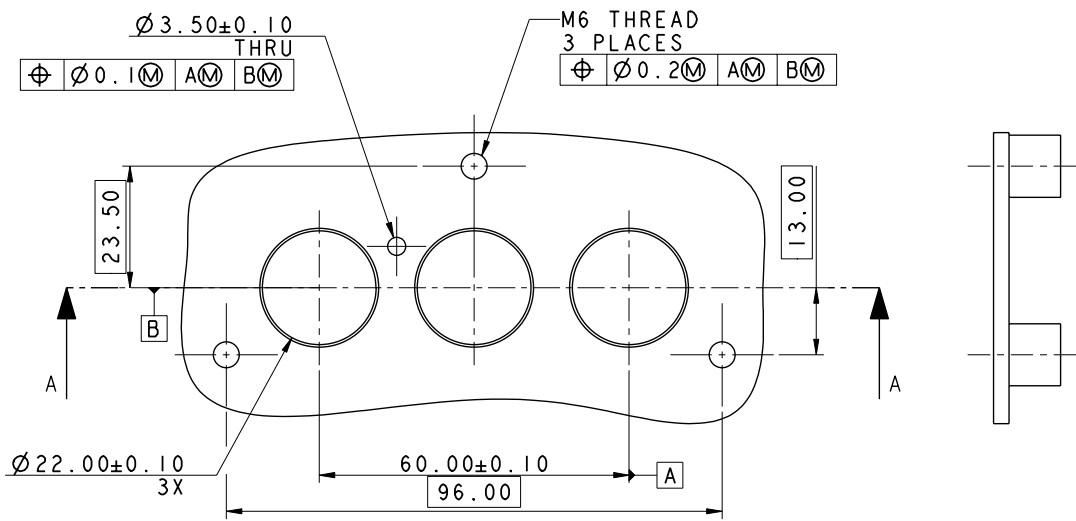
CONTACTS

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

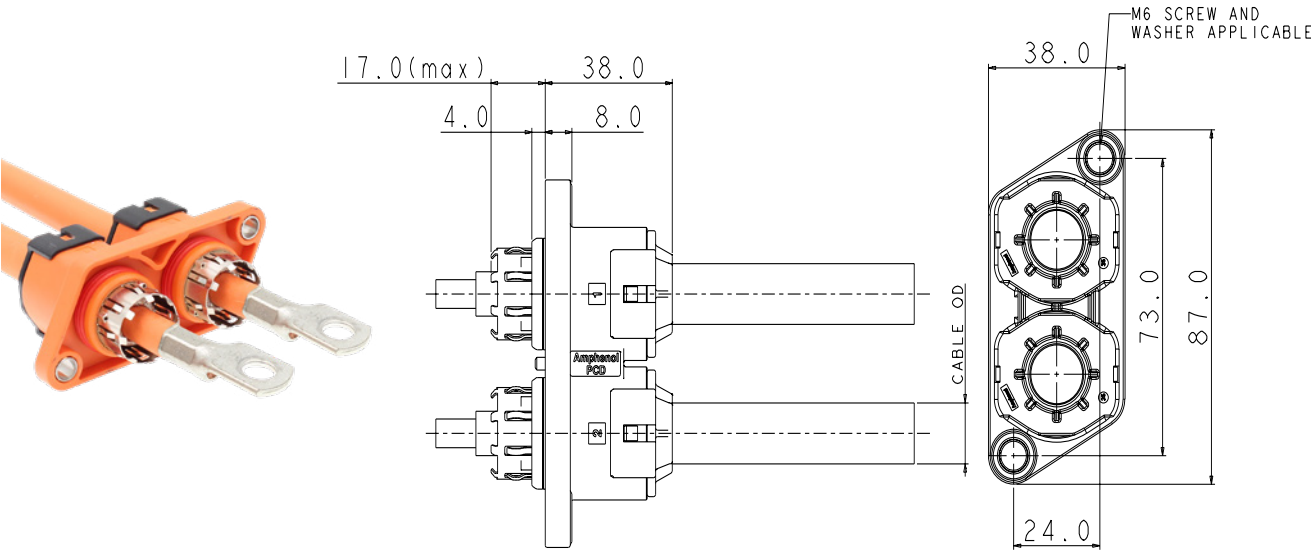
STANDARDS

USCAR-2
USCAR-37
LV-215
RoHS & REACH

MATERIAL

Housing	PA66 + GF
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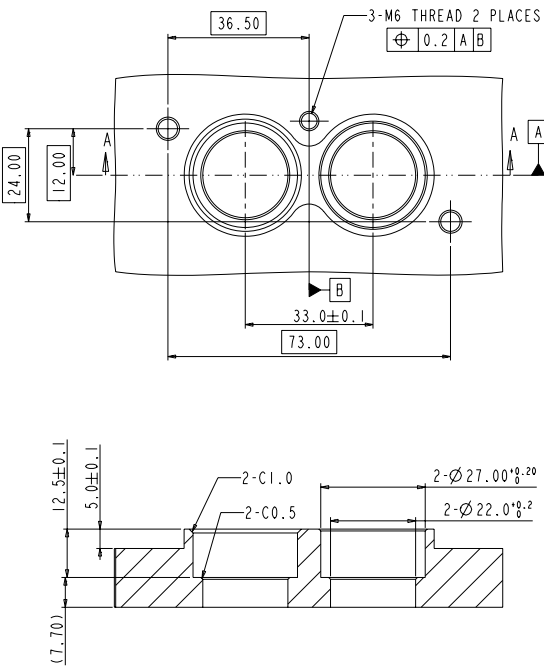
HVPTB 2 POSITION PASS-THROUGH



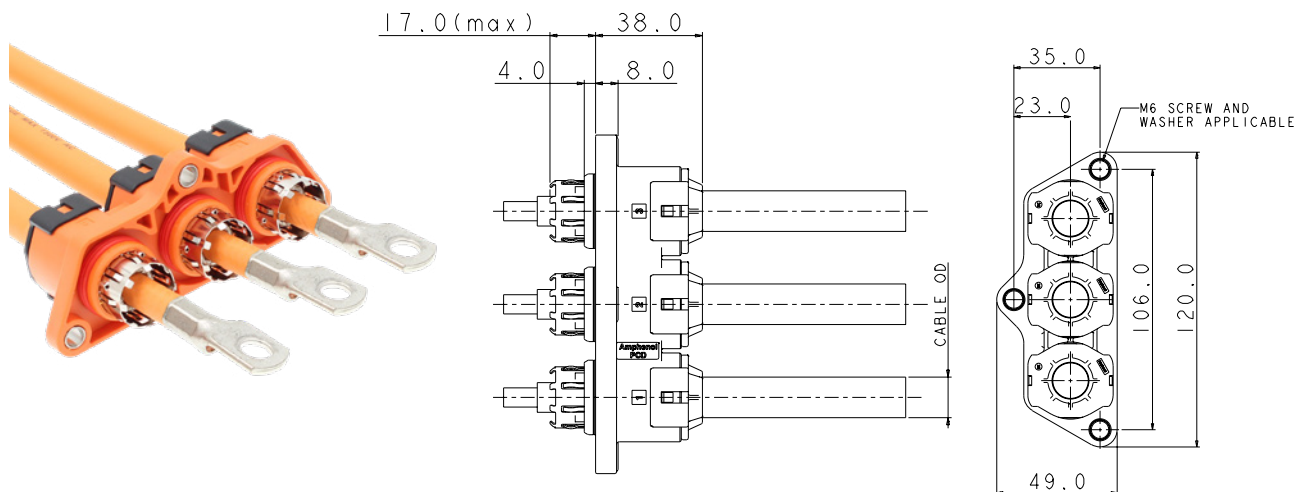
PART NUMBER

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



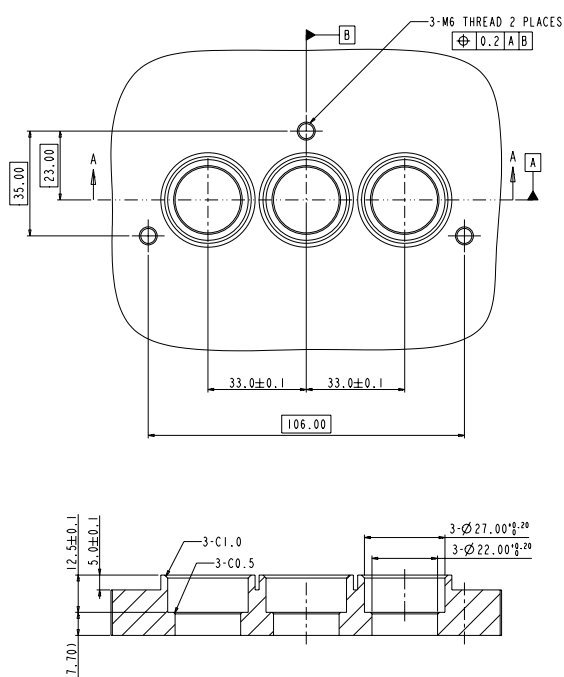
HVPTB 3 POSITION PASS-THROUGH



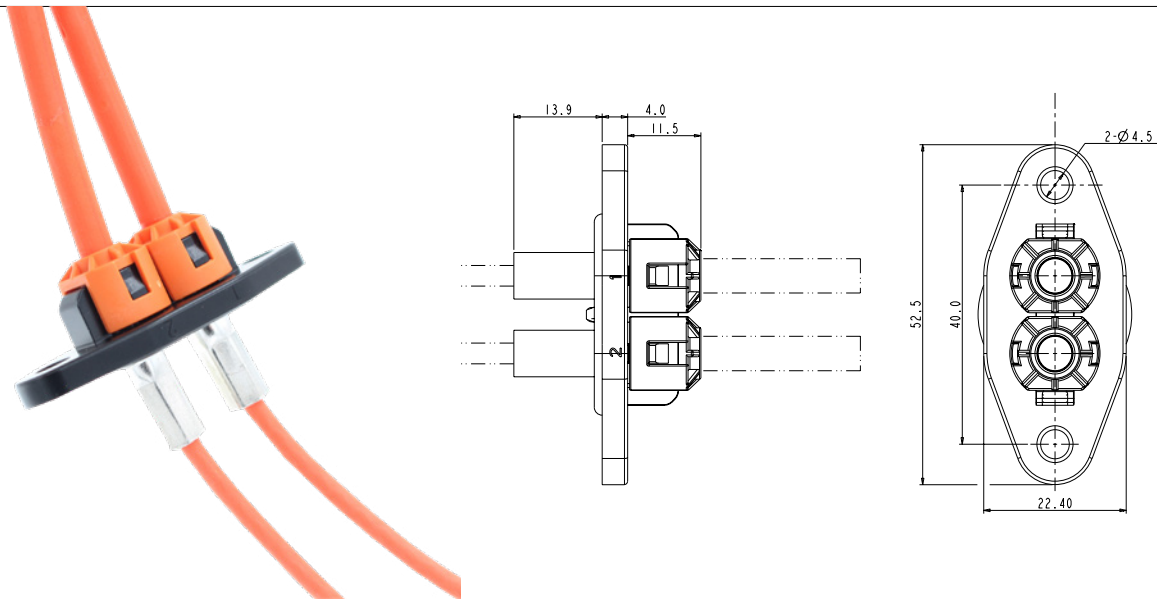
PART NUMBER

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



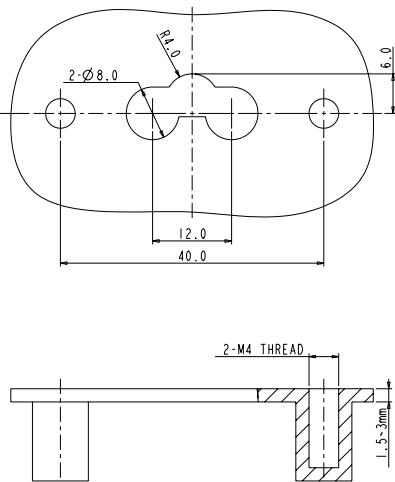
HVPTB 2A POSITION PASS-THROUGH



PART NUMBER

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

PANEL MOUNTING DIMENSIONS



HVPC PASS-THROUGH

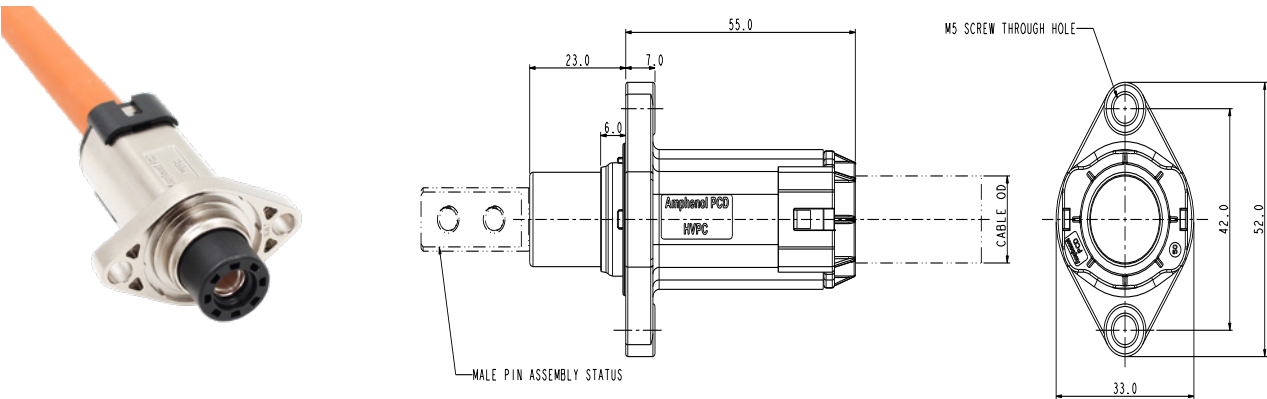


KEY FEATURES

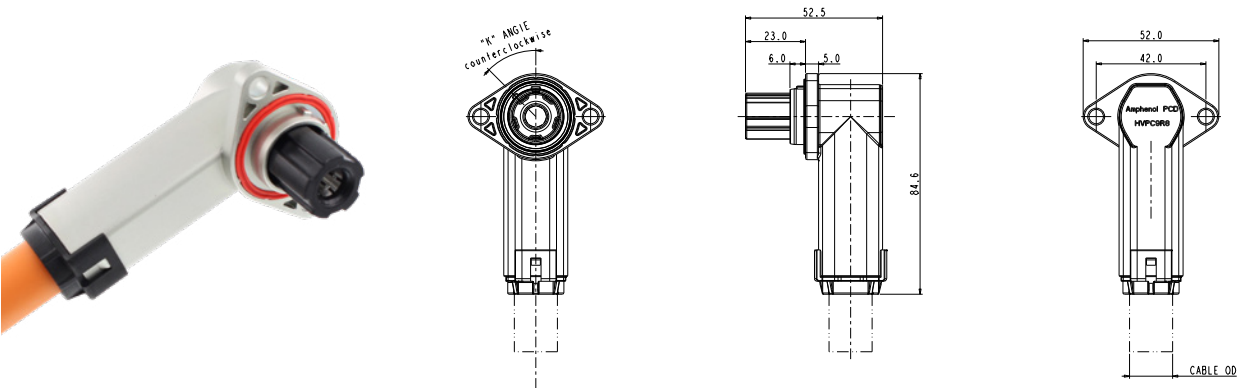
Easy to install, reliable connection
Sealing, IP67, IP6K9K (mated)
Multiple coding positions
360° shielded from wire to device
Economical

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

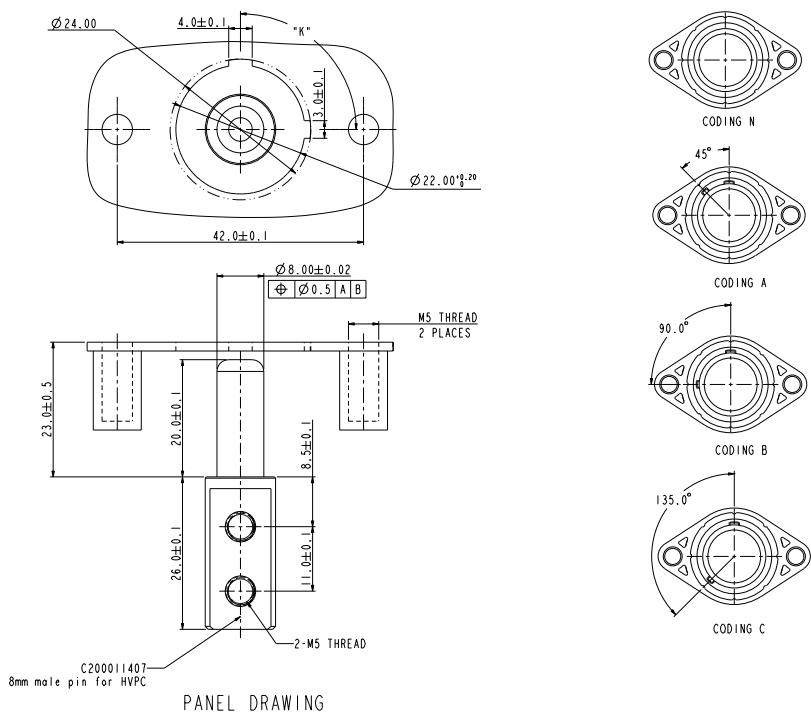
HVPC 1 POSITION PASS-THROUGH



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

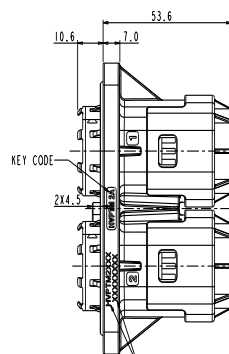
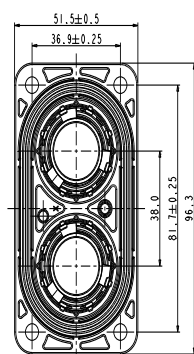


KEY FEATURES

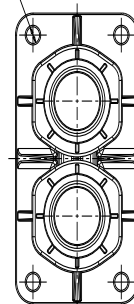
- Easy to install, reliable connection
- Sealing, IP67, IP6K9K (mated)
- Multiple coding positions
- 360° shielded from wire to device
- Economical

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

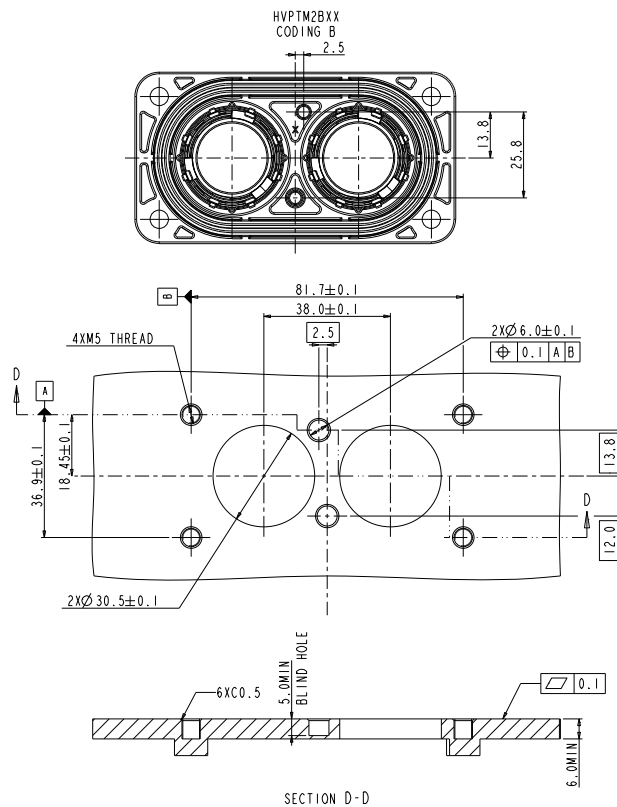
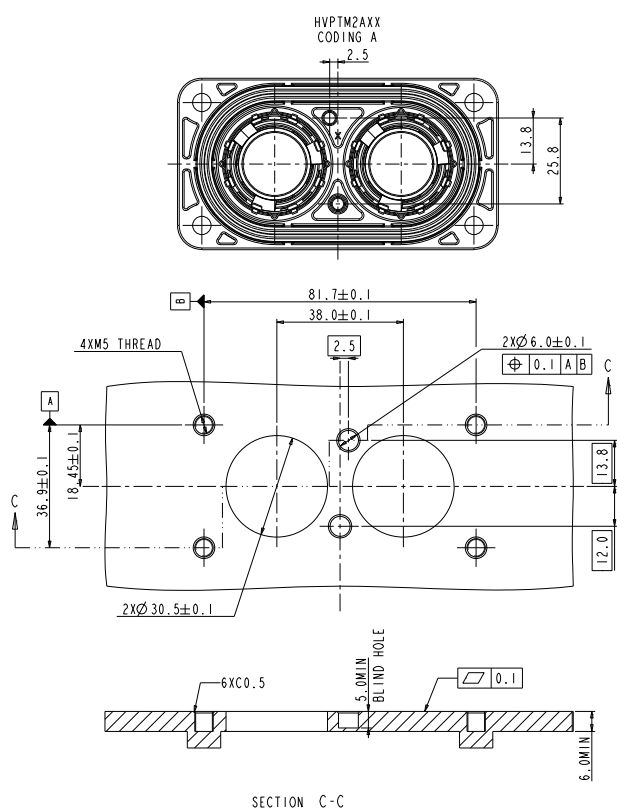


MS SCREW AND WASHER APPLICABLE
4XØ5.5



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

PANEL MOUNTING DIMENSION



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

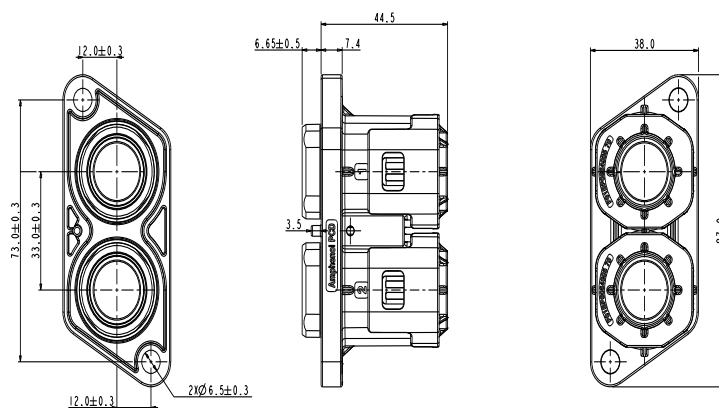


KEY FEATURES

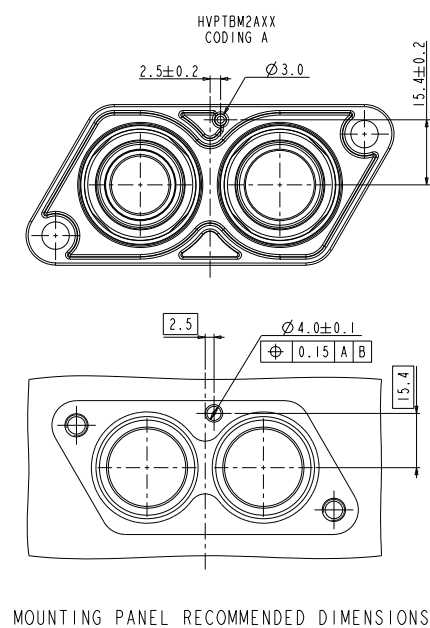
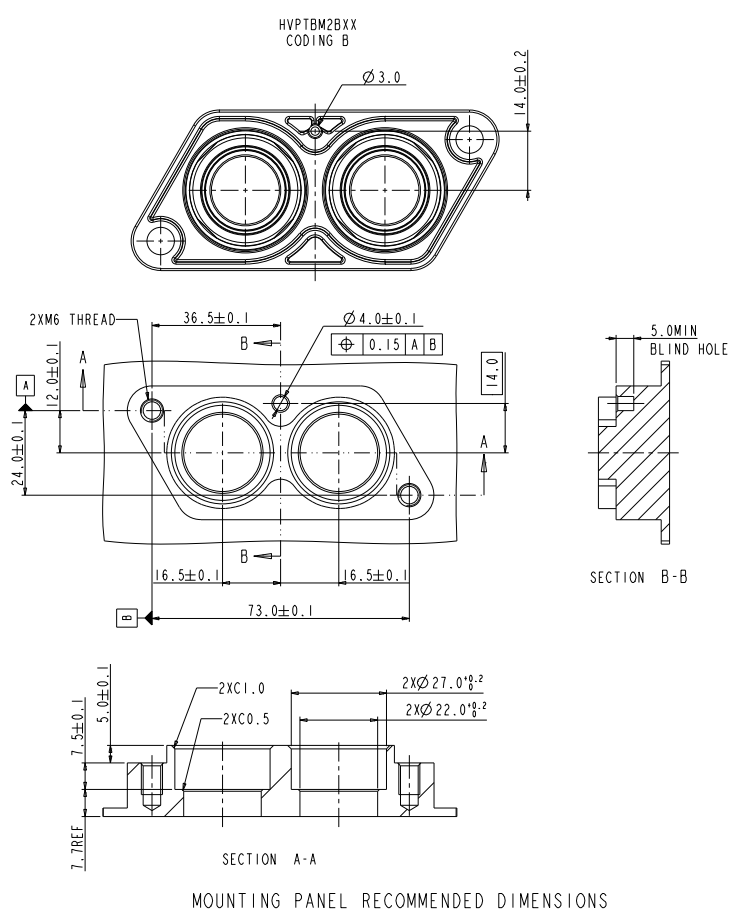
- Easy to install, reliable connection
- Sealing, IP67, IP6K9K (mated)
- Multiple coding positions
- 360° shielded from wire to device
- Economical

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

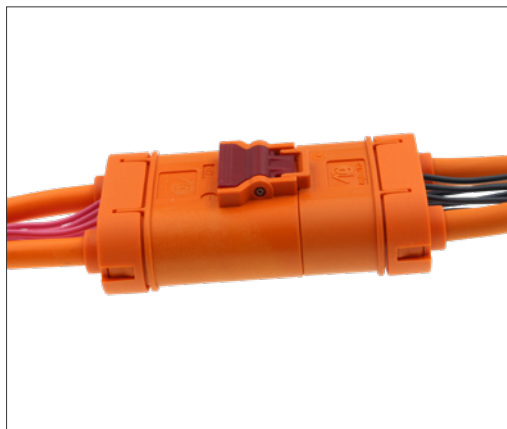


MOUNTING PANEL RECOMMENDED DIMENSIONS

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

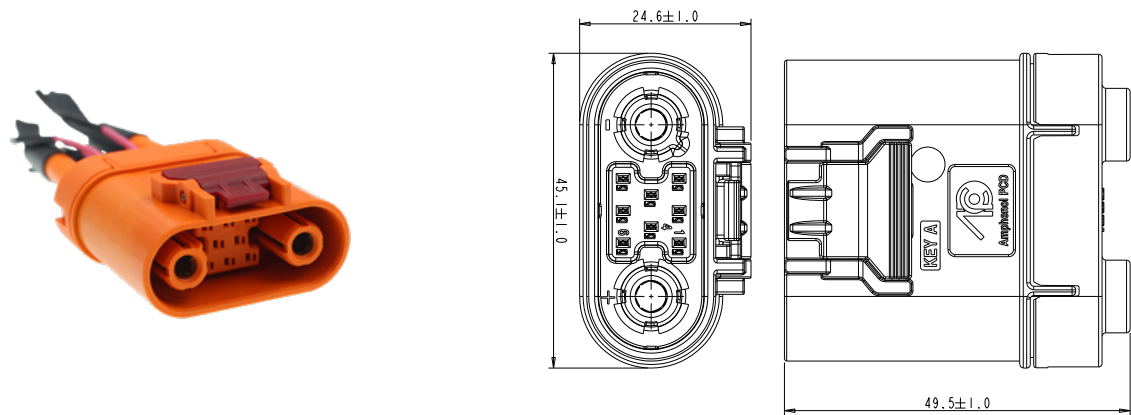
Sealing, IP67
Multiple coding positions

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	

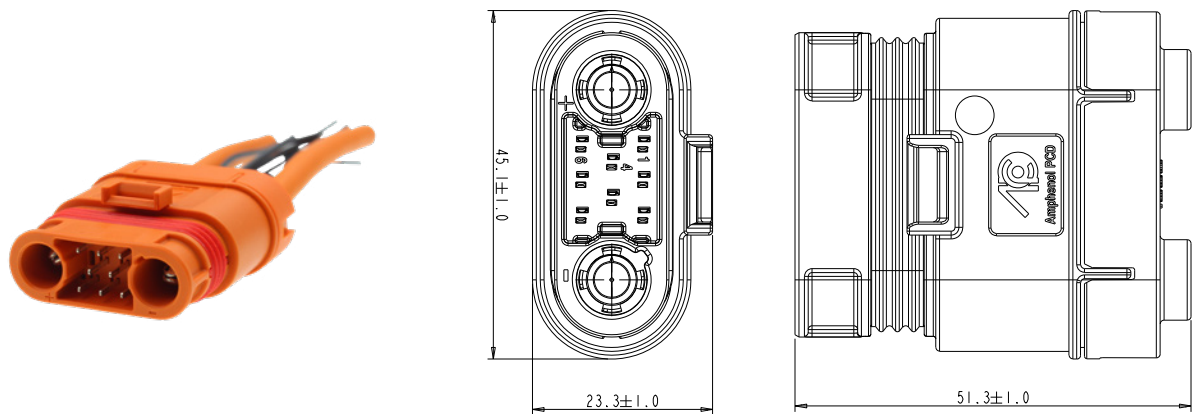
Wire-to-Wire (AUTOLOCK)

Plug: wire-to-wire



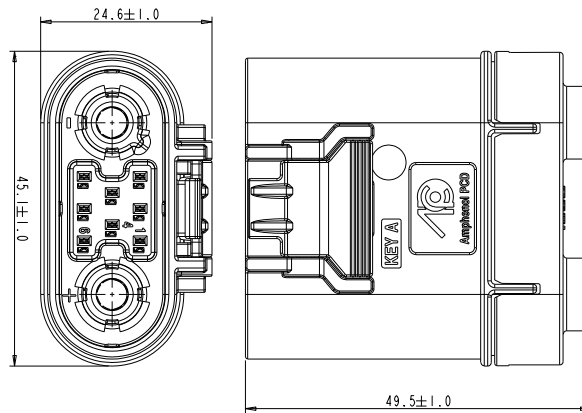
AL4000	62	XX	X	XX
Product type: Plug (180)		Signal Pin: 04: 4 PIN 05: 5 PIN 06: 6 PIN 07: 7 PIN 08: 8 PIN	Coding: A: KEY A B: KEY B	Wire Specification: 06: 6mm ² 10: 10mm ² 16: 16mm ²

Receptacle: wire-to-wire



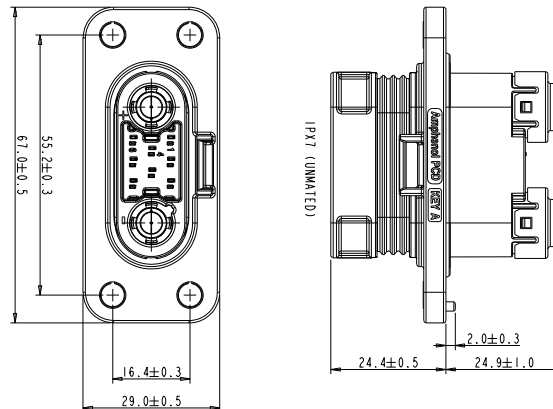
AL4000	22	L	XX	XX
Product type: Socket		Mounting: L: Inline	Signal Pin: 04: 4 PIN 05: 5 PIN 06: 6 PIN 07: 7 PIN 08: 8 PIN	Wire Specification: 06: 6mm ² 10: 10mm ² 16: 16mm ²

Plug: wire-to-board



AL4000	62	XX	X	XX
Product type: Plug (180)		Signal Pin: 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-board



AL4000	22	F	XX	X	XX	X	X
Product type: Receptacle		Mounting: F: Front Mounting	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	IP Rate: 0: None 1: IPX7 (unmated)	Protection Cap: 0: Without 1: With

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