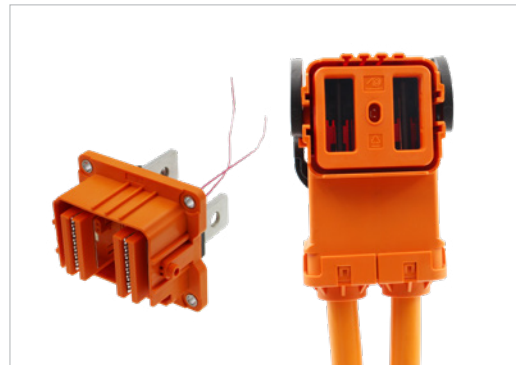




EXCEL | MATE

HVSL Series



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

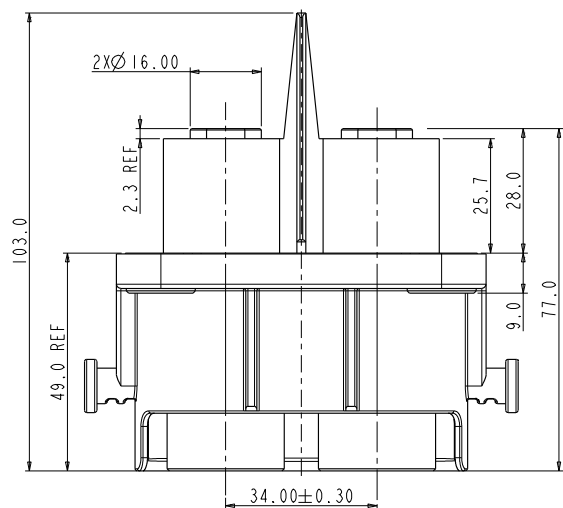
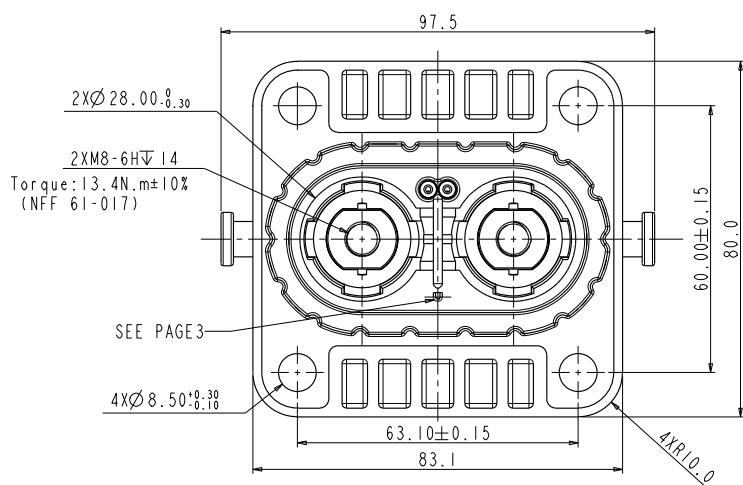
USCAR-2

USCAR-37

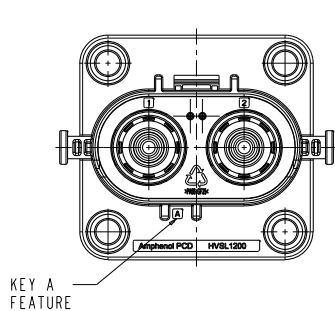
LV-215

RoHS

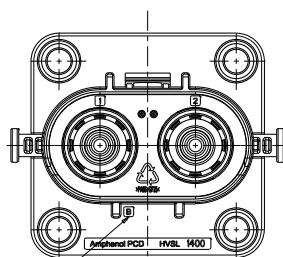
2 PIN RECEPTACLE BOX MOUNTED



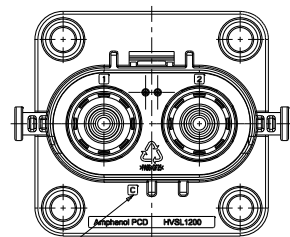
INSERT ORIENTATIONS



KEY A
FEATURE



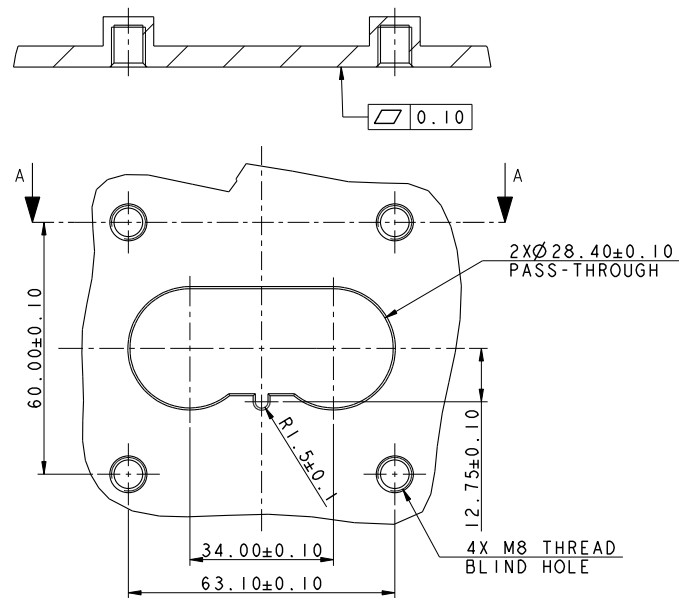
KEY B
FEATURE



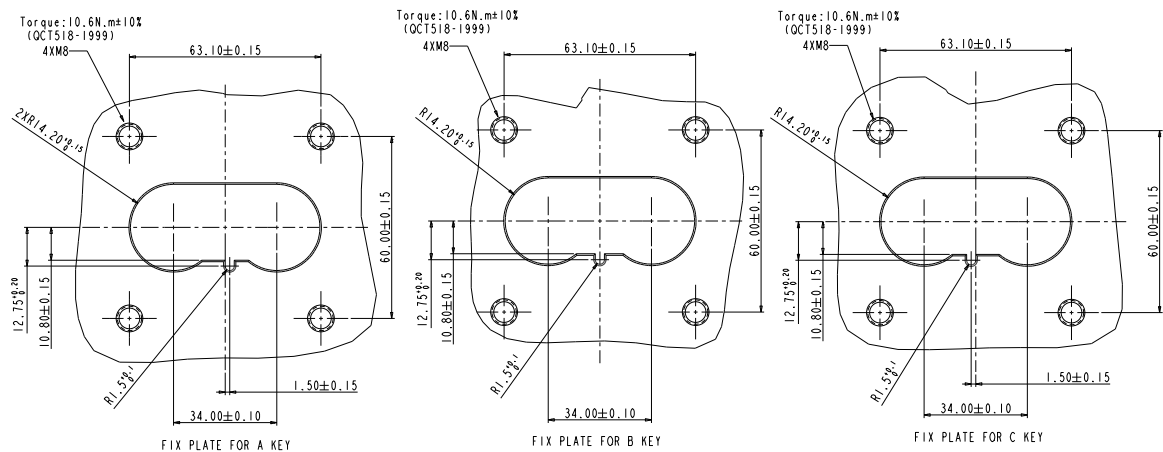
KEY C
FEATURE

	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

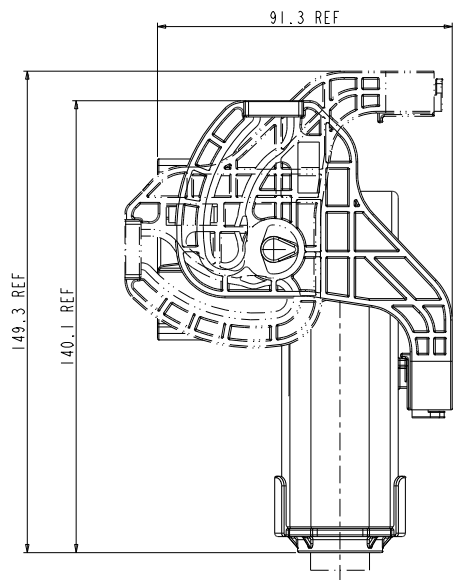
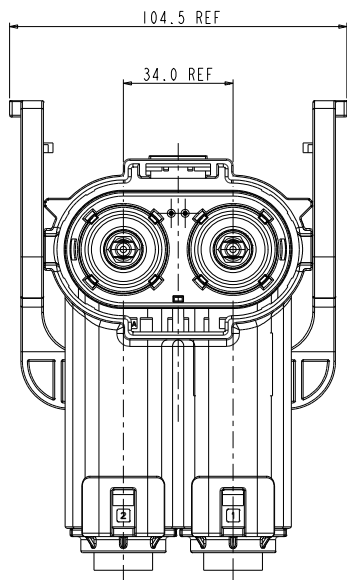
PANEL MOUNTING DIMENSIONS



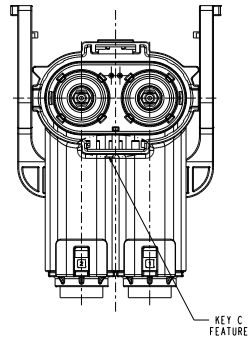
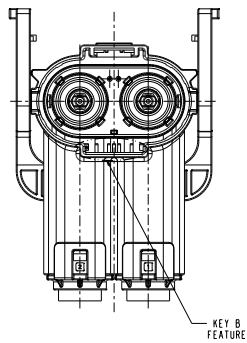
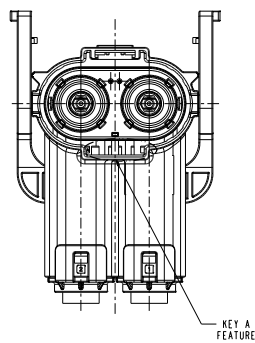
MOUNTING PANEL LAYOUT
RECOMMENDED THICKNESS 3MM MIN.



2 PIN PLUG RIGHT ANGLE



INSERT ORIENTATIONS



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

HOW TO ORDER (HVSL 1400)

HOW TO ORDER: PLUG

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

HOW TO ORDER: RECEPTACLE

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

EXTRACTION TOOL FOR RECEPTACLE SIGNAL CONTACT

HVIL-contact Extraction tool: HVTOOL11R



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Notes:

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Amphenol PCD Shenzhen reserves the right to clarify this catalog.