

## EXCEL | MATE CC

Excel|Mate CC connectors, IP55, aim to provide a global charging solution on both sides of the infrastructure, EVSE and EV. Outfitted with Amphenol Radsok technology (for socket contacts), these high-performance connectors meet all the necessary standards. In addition, their locking system assures an optimal safety.

### GB/T AC & DC 1



HVCO GB/T connectors are all compliant with GB/T 20234.1 / 2/3 standards.

### IEC + COMBO 1



HVCO IEC connectors are all compliant with IEC 62196-2, IEC 61851-1 standards.

### SAE + COMBO 1



HVCO COMBO connectors are all compliant with IEC 62196-2, IEC 62196-3 standards.

### MCS 1



MCS connectors are all compliant with IEC TS 63379, IEC 61851-23-3

### NACS 1



NACS connectors are all compliant with SAE J3400, UL2251.

## EXCEL | MATE MONO

Excel|Mate Mono connectors provide a convenient push-pull locking system suitable for limited fixing space, which make it easy to

operate. IP68 rated, their rugged metal shell ensures an excellent electromagnetism shielding. A wide range of contact sizes and

multiple coding positions are both available.

### HVBI 2 3 4 5



HVBI is an enhanced version of HV series connectors. This second generation of products offers an interlock system and high voltage. Rated current: 250A Max / rated voltage: 1000V DC / wire range: 16 to 70mm<sup>2</sup>

### EX 2 3 4 6 7 8



EX Series is the newest series among the Excel|Mate Mono product family. It offers a rated current up to 40A and a rated voltage of 1000V DC Max.

### HVG/S 2 3 4 6 7 8



HVG provides a rated current of 50A Max and a rated voltage of 800V DC Max. This product offers a mix & match of insert arrangements. HVS is a 3 pins connector. Small in size, it offers a rated current of 32A Max and a rated voltage of 400V.

## EXCEL | MATE PT

### HVPT 4 5



Excel|Mate PT series, which is equipped with plastic housing and cable gland, provides a reliable high voltage connection. IP68 rated, light in weight and easy to install, it offers a good price-quality ratio. Multiple coding positions are available.

Cable size: 25 to 70mm<sup>2</sup> shielded wires

### HVPT M 4 5



2 to 3 positions / Easy to install / Reliable connection / IP68 (mated), IP6K9K / Multiple coding positions / 360° shielded from wire to device / Economical

### HVPTB/M/2A 4 5



Light in weight with plastic shell / Easy to install / Reliable connection / IP68 (mated), IP6K9K / Multiple coding positions / 360° shielded from wire to device / Economical

HVPTB: 25 to 70mm<sup>2</sup> shielded wires  
HVPTB M: 16 to 70mm<sup>2</sup> shielded wires  
HVPTB 2A: 2.5 to 6mm<sup>2</sup> shielded wires

## BSM, HEV, AUTOLOK & LVRC

BSM series connectors are Battery Swapping Modules with high durability. Their deviation self-correction and collision prevention ensure a fast and precise mating.

RADSOK® Technology. Excellent physical shock and vibration.

### AUTOLOK 4000 2



### HEV 060 / 070 / 080 2



### BSM 5A 2



### BSM 100A 2



### LVRC 2



### HVSLF 18 / 300 2 3 4 5



### CHARGER 1

### BATTERY PACK 2

### PDU 3

### MCU 4

### HVPC 18 2 3 4 6



## EXCEL | MATE

### EXCEL|MATE MAX 2 3 4 5



HVSL1200 and HVSL1400 are the latest generation of the Excel|Mate series. The 12mm and 14mm contacts combined with an interlock solution ensure a safe and reliable connection.

2 position / Rated voltage: 1000V / Rated current: up to 430A / EMI / Compliant with LV215, USCAR-2, USCAR-37, ROHS / IP68 (mated), IP6K9K / Touch-proof / Multiple coding positions / 70 to 120mm<sup>2</sup> shielded wire

### EXCEL|MATE PLUS 2 3 4 5



HVSL1000 offers a rated current of 250A Max and a rated voltage up to 1000V. It is perfectly suitable for EV applications such as power solutions.

External HVIL: 1 position / Internal HVIL: 2 to 3 positions. / EMI / Compliant with LV215, USCAR-2, USCAR-37, ROHS / IP68 (mated), IP6K9K / Touch-proof / Multiple coding positions / 25 to 70mm<sup>2</sup> shielded wire

### EXCEL|MATE S 2 3 4 5



HVSL800, which derived from HVSL1000, is smaller in size. This 2 and 3 pins connector provides a rated voltage up to 1000V and a rated current of 180A Max.

Internal HVIL / IP68 (mated), IP6K9K / Touch-proof / Multiple coding positions / 35 to 50mm<sup>2</sup> shielded wire  
HVSLP800, HVSLP1000: New contacts / Improved production efficiency / Automated tape and reel packaging

## EXCEL | MATE MSD

	with Fuse	with eFuse
MSD	800V Current is approximately 1/3 the fuse rating	1000V, 200A@40mm <sup>2</sup> 70°C
MSD V	800V Current is approximately 1/3 the fuse rating	1000V, 260A@40mm <sup>2</sup> 70°C
MSD XL	1000V, 300A	1500V, 350A
MINI MSD	600-700V Current is approximately 1/3 the fuse rating (170A Max)	1500V, 170A
MINI MSD V	600-700V Current is approximately 1/3 the fuse rating (170A Max)	1500V, 220A
MCMSD	1500V	
MSDE	500V, 630A	500V, 300A

### MINI MSD/V 2 3



### MCMSD 2 3



### MSDE 2 3



### MSD/V 2 3



### MSD XL 2 3



### MSD 2 3



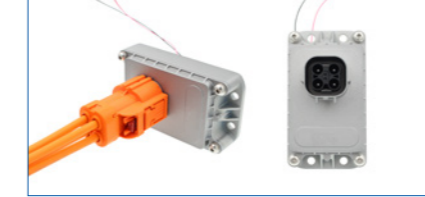
### MOTOR 5

### DC/DC 6

### PTC 7

### AC 8

### PDC 2 3



### CHD 2 3 4 5



## EXCEL | MATE ECO

### HVSLW Series 1 3 6 7 8



HVSLW 282, 362, 633: 2 and 3 pins / 1000V

A light-weight, waterproof version of the HVSL connector with soldered pins for PCB board.

Internal HVIL / IP67 (unmated), IP6K9K (mated) / Touch-proof / USCAR 2&37 / Designed for Automation

## EXCEL | MATE ECO

Excel|Mate series is the newest generation of power & signal connection solution for EV applications. In accordance with AK 4.43 & LV 215 standards,

it provides a two-stage lever mechanism to open the HVIL circuit, prior to separation of high voltage contacts. HVSL offers a wide range of options: from 1 to 4

positions, a rated current from 23A to 350A, touch-proof, equipped with high-voltage interlock (HVIL), and multicore or individually shielded wire are both available.

### HVSL 600 2



HVSL600 is a single pin connector, which provides a rated current of 120A and a 25mm<sup>2</sup> crimping cable. It can be used with multi-core or single-wire. An integrated internal HVIL with multiple routing options offers a package size optimization and flexibility.

Internal HVIL / IP68 (mated), IP6K9K / Touch-proof / Rated voltage: 800V DC / Rated current: 120A / Multiple coding positions / 25mm<sup>2</sup> shielded wire

### HVSL 630 3 6 7 8



HVSL630 is a 2 positions connector, which offers a range of current from 23A to 40A and a 4 to 6mm<sup>2</sup> crimping. It was specially designed for DC-DC, air-conditioner and other EV equipment and devices.

Internal HVIL / IP68 (mated), IP6K9K / Touch-proof / Rated voltage: 800V DC / Rated current: 23 to 40A / Multiple coding positions / 4 to 6mm<sup>2</sup> shielded wire

### HVSL 633 1 3



HVSL633 is a 3 positions connector, which offers a range of current from 23A to 40A and a 4 to 6mm<sup>2</sup> crimping. It was specially designed for DC-DC, air-conditioner and other EV equipment and devices.

Internal HVIL / IP68 (mated), IP6K9K / Touch-proof / Rated voltage: 800V DC / Rated current: 23 to 40A / Multiple coding positions / 4 to 6mm<sup>2</sup> shielded wire

### HVSL 280 3



HVSL280 is a 3 positions connector, which provides a range of rated current from 16A to 23A. It was specially designed for DC-DC, air-conditioner, and other EV equipment and devices.

Internal HVIL / IP68 (mated), IP6K9K / Touch-proof / Rated voltage: 800V DC / Rated current: 16 to 23A / Multiple coding positions / 2.5 to 4mm<sup>2</sup> shielded wire

### HVSL 282 3 8



HVSL282 is a 2 positions connector, which provides a range of rated current from 16A to 23A. It was specially designed for DC-DC, air-conditioner, and other EV equipment and devices.

Internal HVIL / IP68 (mated), IP6K9K / Touch-proof / Rated voltage: 800V DC / Rated current: 16 to 23A / Multiple coding positions / 2.5 to 4mm<sup>2</sup> shielded wire

### HVSL 362 3 6 7 8



HVSL362: 2 pos. / up to 95A / 16mm<sup>2</sup> (shielded wire)

HVSL362 was specially designed for DC-DC, air-conditioner, and other EV equipment and devices.

Internal HVIL / IP68 (mated), IP6K9K / Touch-proof / Rated voltage: 800V DC / Multiple coding positions

### HVSL 364 3 6 7 8



HVSL364: 4 pos. / up to 80A / 2.5 to 16mm<sup>2</sup> (shielded wire)

HVSL364 was specially designed for DC-DC, air-conditioner, and other EV equipment and devices.

Internal HVIL / IP68 (mated), IP6K9K / Touch-proof / Rated voltage: 800V DC / Multiple coding positions

### HVSL 365 / 366 2 3 4 6 7 8



HVSL365 & HVSL366: 5 to 6 pos. / up to 40A / 4 to 6mm<sup>2</sup> (shielded wire)

HVSL365 & HVSL366 were specially designed for DC-DC, air-conditioner, and other EV equipment and devices.

Internal HVIL / IP68 (mated), IP6K9K / Touch-proof / Rated voltage: 800V DC / Multiple coding positions

### HVSL 635 B 3 6 7 8



HVSL635B: 4 to 5 pos. / up to 40A / 2.5 to 6mm<sup>2</sup> (shielded wire)


HVSL635B was specially designed for DC-DC, air-conditioner, and other EV equipment and devices.

Internal HVIL / IP67 (mated), IP6K9K / Touch-proof / Rated voltage: 690V DC / Multiple coding positions



**PDU**

EXCEL | MATE MONO  
EXCEL | MATE MSD  
EXCEL | MATE MAX  
EXCEL | MATE PLUS  
EXCEL | MATE S  
EXCEL | MATE METAL  
EXCEL | MATE ECO  
CHD, HVSLF, HVPC 18, PDC




**MCU**

EXCEL | MATE MONO  
EXCEL | MATE PT  
EXCEL | MATE MAX  
EXCEL | MATE PLUS  
EXCEL | MATE S  
EXCEL | MATE METAL  
EXCEL | MATE ECO  
CHD, HVSLF, HVPC 18




**MOTOR**

EXCEL | MATE MONO  
EXCEL | MATE PT  
EXCEL | MATE MAX  
EXCEL | MATE PLUS  
EXCEL | MATE S  
CHD, HVSLF




**DC/DC**

EXCEL | MATE MONO  
EXCEL | MATE METAL  
EXCEL | MATE ECO  
HVPC 18




**PTC**

EXCEL | MATE MONO  
EXCEL | MATE ECO



**AC**

EXCEL | MATE MONO  
EXCEL | MATE ECO



HIGHPOWER @ AMPHENOL  
TRUSTED GLOBALLY

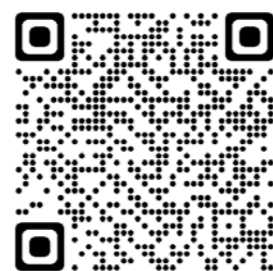


Amphenol PCD Shenzhen

Building C  
Dagang Industrial Zone  
Guangming District  
Shenzhen 518132  
China

Tel: +86 755-8173-8000  
Email: inquiry@amphenolpcd.com.cn

www.amphenolpcd.com.cn



Notes:

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**EV**


Amphenol PCD Shenzhen targets to provide a Total Solution for EV.



**CHARGER**


EXCEL | MATE CC:

GB/T AC	COMBO
GB/T DC	MCS
SAE / IEC	NACS



**BATTERY PACK**

EXCEL | MATE CC  
EXCEL | MATE MONO  
BSM, HEV, AUTOLOK, LVRC  
EXCEL | MATE MSD  
EXCEL | MATE MAX, PLUS, S  
EXCEL | MATE METAL  
EXCEL | MATE ECO  
CHD, HVSLF, HVPC 18, PDC




**COMPANY PROFILE**

Amphenol PCD Shenzhen Co., Ltd. is part of the Amphenol Industrial Products Group. Amphenol is one of the world's leading manufacturers of interconnect products. With world-class engineering and manufacturing capabilities, we design, manufacture and deliver interconnect cables assemblies, connectors and complete customized interconnect solutions for the industrial, railway and hybrid electrical vehicle markets.