



EXCEL | MATE CC (Charging Coupler)

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PRODUCTS INTRODUCTION

EV Plug / Vehicle Connector													
REGION	EU			•	•	•						•	•
	US	•	•				•	•	•	•	•		
NAME		CCS1 HPC	NACS DC	CCS2 HPC	CCS2 COMBO	CCS2 THIN HANDLE	MCS	CCS1 COMBO	CCS1 THIN HANDLE	EV TYPE 1 (Potting)	NACS AC	EV TYPE 2 (Potting)	EV TYPE 2
RATED VOLTAGE (Max.)		1000V DC	1000V DC	1000V DC	1000V DC	1000V DC	1500V DC	1000V DC	1000V DC	240V AC	600V AC	480V AC	480V AC
RATED CURRENT	16A												
	20A											•	•
	32A									•		•	•
	40A					•			•		•		
	48A												
	50A									•	•		
	65A				•	•		•	•				
	80A					•			•	•	•		
	125A				•			•					
	150A				•			•					
	200A		•		•			•					
	250A		•		•			•					
	300A				•			•					
	350A						•	•					
	380A		•		•								
	400A				•			•					
	500A 600A	•	•	•									
	1500A						•						
PROTECTION DEGREE		TYPE 3S IP67	TYPE 3R IP67	IP67 IP69	IP67	IP55 (mated)	IP67	TYPE 3S	TYPE 3S	TYPE 3S	TYPE 3S IP67	IP67	IP67
TOUCH-PROOF		IP2XB	IP2XB	IP2XB	IP2XB	IP2XB	IP2XB	IP2XB	IP2XB	IP2XB	IP2XB	IP2XB	IP2XB
CERTIFICATION	CE			•	•	•		•				•	•
	EN17186			•	•							•	•
	EV READY											•	
	UKCA			•	•							•	•
	UL	•	•					•	•	•			
CABLE RANGE (Power)		2 (AWG)	2x3 to 2x1 / 0	25 to 35 (mm ²)	16 to 100 (mm ²)	6 to 16 (mm ²)	2x35 to 2x50mm ²	8 to 2x1 / 0 (AWG)	10 to 6 (AWG)	10 to 6 (AWG)	10 to 6 (AWG)	2.5 to 6 (mm ²)	2.5 to 6 (mm ²)
AMBIENT TEMPERATURE		-30 to 50°C	-40 to 50°C	-30 to 50°C	-30 to 50°C	-30 to 50°C	-40 to 50°C	-40 to 55°C	-30 to 50°C	-30 to 50°C	-40 to 50°C	-30 to 50°C	-30 to 50°C



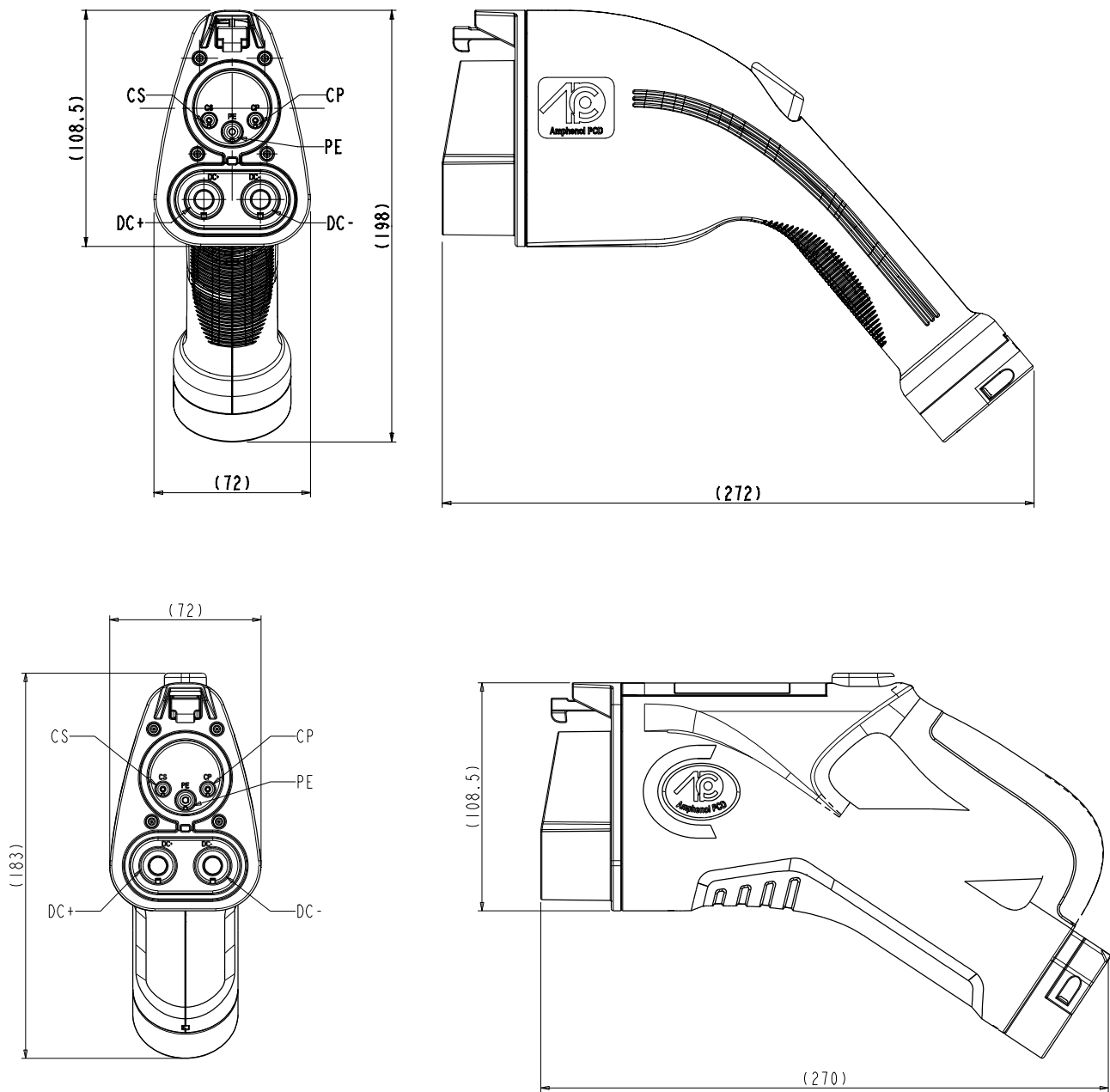
KEY FEATURES:

Compliant with:
SAE J1772
IEC 62196-3
UL2251

Cooling system:
2 feed pipes and 2 outlet pipes
Working pressure: 0 to 7bar

MECHANICAL	
Mating cycles	> 20,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	600A Max. 850A (Peak)
Rated voltage	1000V DC
Temperature sensor	PT1000 The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors
ENVIRONMENTAL	
Protection degree	Type 3S IP67 (enclosure)
Ambient temperature	-30°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

HPC CCS1 VEHICLE CONNECTOR DIMENSIONS



HPC CCS1 VEHICLE CONNECTOR - PART NUMBERS

P/N	Rated current
HVCO11002 (without handle)	600A
HVCO11012 (with handle)	600A



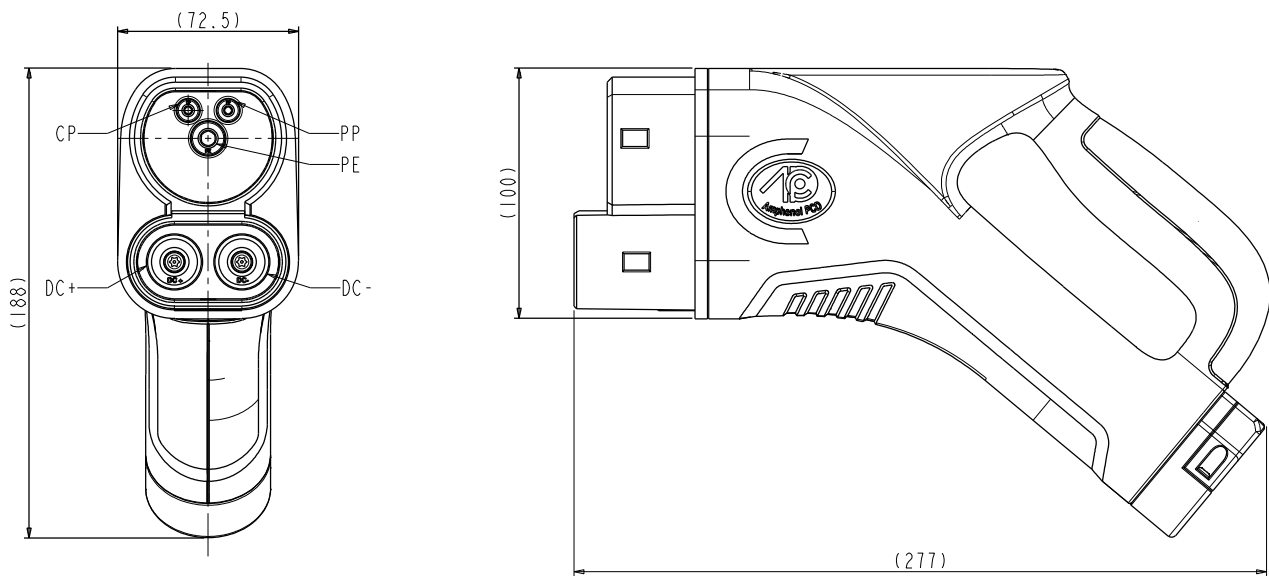
KEY FEATURES:

Compliant with:
IEC 62196-2
IEC 62196-3

Cooling system:
2 feed pipes and 2 outlet pipes
Working pressure: 0 to 7bar

MECHANICAL	
Mating cycles	> 20,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	500A (Rated current CE qualified) 600A Max. (Internal test passed) 850A (Peak)
Rated voltage	1000V DC
Temperature sensor	PT1000 The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors
ENVIRONMENTAL	
Protection degree	IP67/IP69 (enclosure) IP55 (mated)
Ambient temperature	-30°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

HPC CCS2 VEHICLE CONNECTOR DIMENSIONS



HPC CCS2 VEHICLE CONNECTOR - CIRCUIT DIAGRAM

P/N	Rated current
HVCO21011 (with handle)	600A



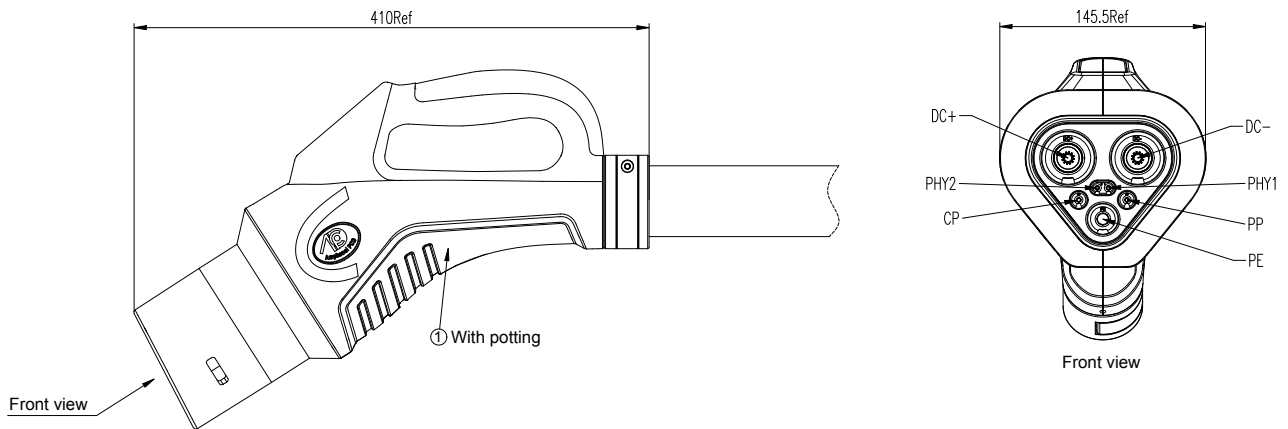
KEY FEATURES:

Compliant with:
IEC TS 63379
IEC 61851-23-3

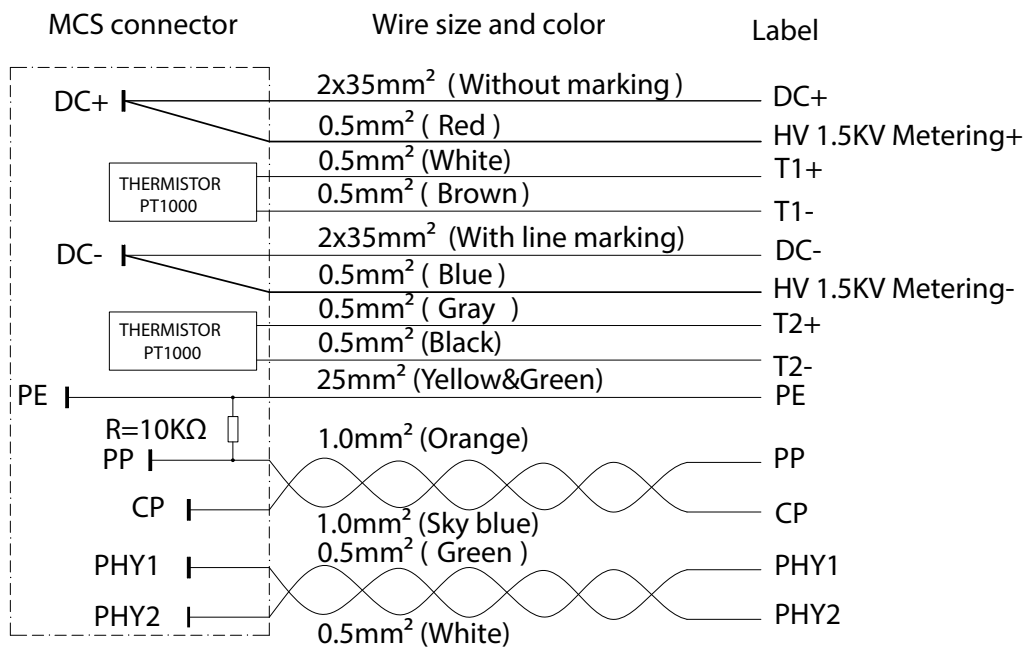
Cooling system:
2 feed pipe and 4 outlet pipes
Working pressure: 0 to 7bar

MECHANICAL	
Mating cycles	> 20,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	350A, 1500A
Rated voltage	1500V DC
ENVIRONMENTAL	
Protection degree	IP67 (enclosure), IP44 (mated)
Ambient temperature	-40°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

MCS VEHICLE CONNECTOR DIMENSIONS



MCS VEHICLE CONNECTOR - CIRCUIT DIAGRAM



MCS VEHICLE CONNECTOR - PART NUMBER

P/N	Rated current
HVCO4M ^N 1001L	350A
HVCO4M1001L	1500A



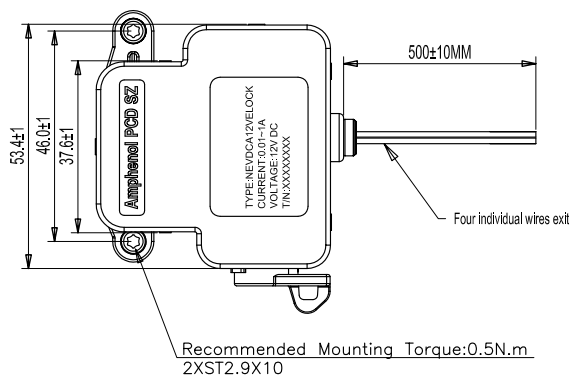
KEY FEATURES:

Compliant with:
IEC TS 63379
IEC 61851-23-3
SAE J1772

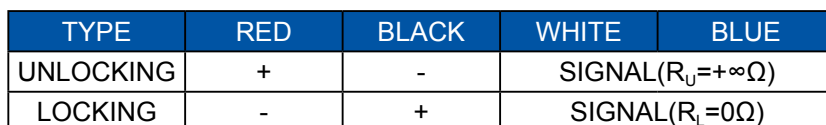
MECHANICAL	
Mating cycles	> 20,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	1000A (natural cooling copper bar) 3000A (liquid cooling copper bar)
Rated voltage	1500V DC
ENVIRONMENTAL	
Protection degree	IP67 IP44 (mated), IP55 (with cap)
Ambient temperature	-30°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0



HVCO4FN103



Recommended Mounting Torque: 0.5 N.m
2XST2.9X10





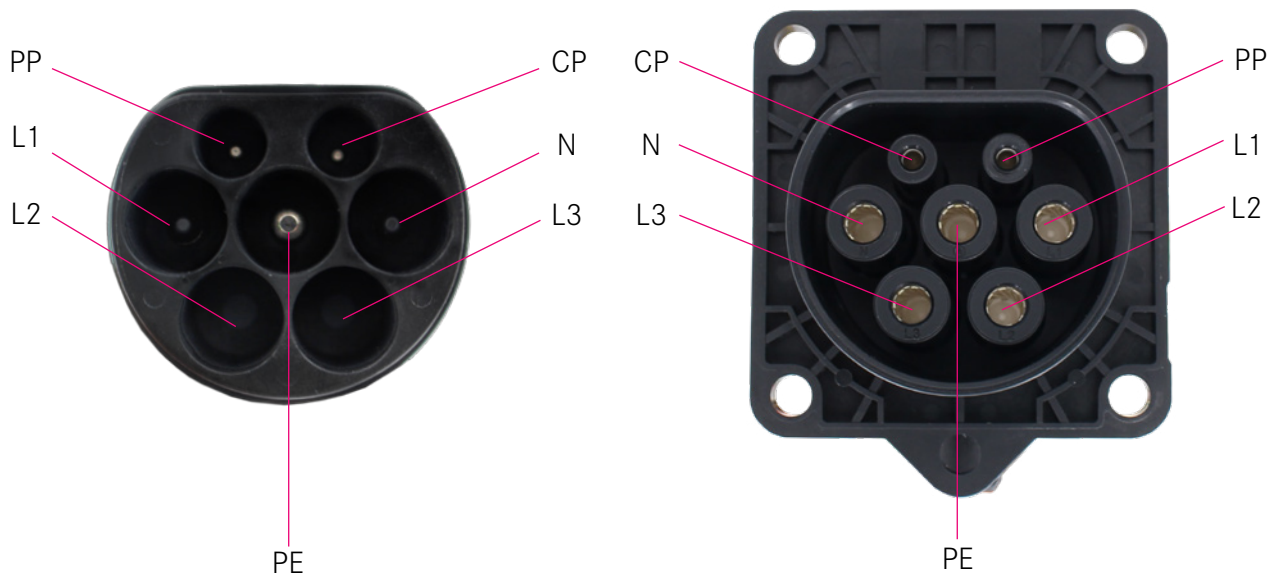
KEY FEATURES:

Compliant with:
IEC 62196-2
IEC 61851-1

Plug: EN17186
Vehicle connector:
CE, EV Ready & UKCA

MECHANICAL	
Mating cycles	> 10,000 cycles (unloaded)
ELECTRICAL	
Rated current	See page 15 & 16
Rated voltage	See page 15 & 16
ENVIRONMENTAL	
Protection degree	IP54 (with lids) IP55 (mated) IP67 (enclosure)
Ambient temperature	-30°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

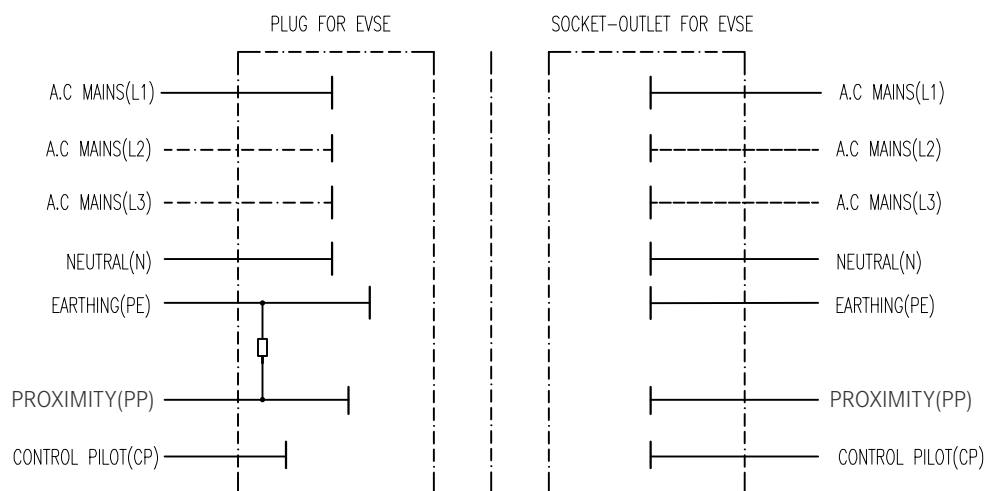
INSERT ARRANGEMENTS



CONFIGURATION

A.C. Type 2		Functions
1-Phase	3-Phase	
250V 20A, 32A	480V 20A, 32A	L1 (Mains 1)
-	480V 20A, 32A	L2 (Mains 2)
-	480V 20A, 32A	L3 (Mains 3)
250V 20A, 32A	480V 20A, 32A	N (Neutral)
Rated for fault		PE (Protective Ground/Earth)
30V 2A		CP (Control pilot)
30V 2A		PP (Proximity)

Circuit diagram



AC TYPE 2 COUPLER FOR EVSE SIDE

Charging components

LXXXX: Cable length (unit in mm)



Type 2 / Mode 3	Socket-outlet (Shutter version)			
	32A	3-Phase	HVCOSFS706LXXXX	-
	32A	1-Phase	HVCOSFS506LXXXX	-
	32A	3-Phase	HVCOSFS706NTLXXXX	NTC
	32A	1-Phase	HVCOSFS506NTLXXXX	NTC
	32A	3-Phase	HVCOSFS706PTLXXXX	PT1000
	32A	1-Phase	HVCOSFS506PTLXXXX	PT1000



Type 2 / Mode 3	Socket-outlet			
	32A	3-Phase	HVCOIFS706LXXXX	-
	32A	1-Phase	HVCOIFS506LXXXX	-
	32A	3-Phase	HVCOIFS706NTLXXXX	NTC
	32A	1-Phase	HVCOIFS506NTLXXXX	NTC
	32A	3-Phase	HVCOIFS706PTLXXXX	PT1000
	32A	1-Phase	HVCOIFS506PTLXXXX	PT1000

Compliant with IEC 62196-2 standard 2-II a. Electric lock available

Configuration:

250V | 32A | 1-phase
480V | 32A | 3-phase

More features: Protection cap,
water drainage design, rear mount



Type 2 / Mode 3	Rear Flange Socket-outlet (Shutter version)			
	32A	1-Phase	HVCOSLFS506LXXXX	-
	32A	3-Phase	HVCOSLFS706LXXXX	-
	32A	1-Phase	HVCOSLFS506NTLXXXX	NTC
	32A	3-Phase	HVCOSLFS706NTLXXXX	NTC
	32A	1-Phase	HVCOSLFS506PTLXXXX	PT1000
	32A	3-Phase	HVCOSLFS706PTLXXXX	PT1000



Type 2 / Mode 3	Rear Flange Socket-outlet			
	32A	3-Phase	HVCOILFS706LXXXX	-
	32A	1-Phase	HVCOILFS506LXXXX	-
	32A	3-Phase	HVCOILFS706NTLXXXX	NTC
	32A	1-Phase	HVCOILFS506NTLXXXX	NTC
	32A	3-Phase	HVCOILFS706PTLXXXX	PT1000
	32A	1-Phase	HVCOILFS506PTLXXXX	PT1000

Compliant with IEC 62196-2 standard 2-II a. Electric lock available

Configuration:

250V | 32A | 1-phase
480V | 32A | 3-phase

More features: Protection cap,
water drainage design, rear mount



Type 2 / Mode 3	Plug		
	20A	1-Phase	HVCOIMBSR6PS502LXXXX
	20A	3-Phase	HVCOIMBSR6PS702LXXXX
	32A	1-Phase	HVCOIMBSR6PF504LXXXX
	32A	3-Phase	HVCOIMBSR6PF704LXXXX
	32A	1-Phase	HVCOIMBSR6PF506LXXXX
	32A	3-Phase	HVCOIMBSR6PF706LXXXX

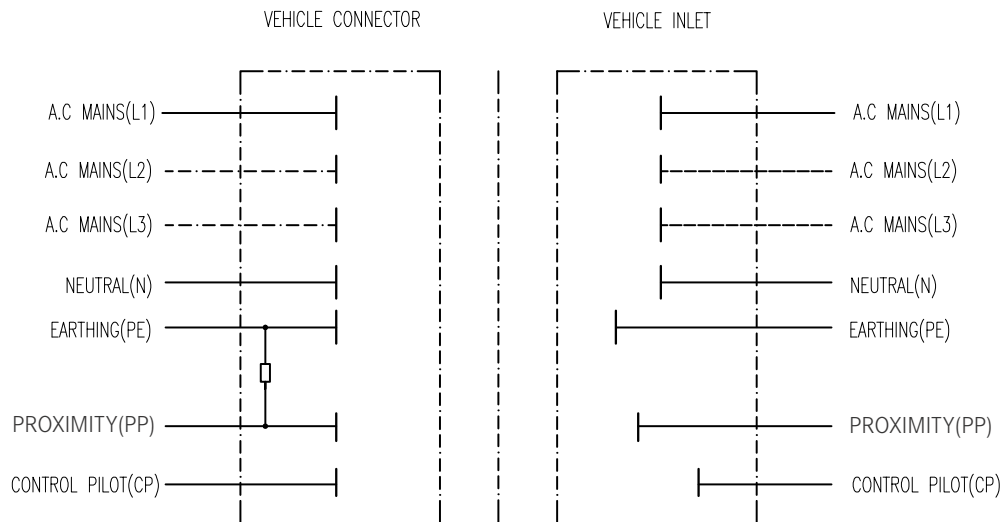
Compliant with IEC 62196-2 standard sheet 2-II b & EN17186.

Configuration:

250V | 20A or 32A | 1-phase
480V | 20A or 32A | 3-phase

AC TYPE 2 COUPLER FOR EV SIDE

Circuit diagram



Charging components

LXXXX: Cable length (unit in mm)



Type 2 / Mode 3	Socket-inlet		
	32A	3-Phase	HVCOIFR6SF706NT LXXXX
	32A	1-Phase	HVCOIFR6SF506NT LXXXX
	20A	3-Phase	HVCOIFR6SS702NT LXXXX
	20A	1-Phase	HVCOIFR6SS502NT LXXXX

Compliant with IEC 62196-2 standard sheet 2-II b.

Configuration:

250V | 32A | 1-phase
480V | 32A | 3-phase
250V | 20A | 1-phase
480V | 20A | 3-phase



Type 2 / Mode 3	Vehicle connector			
	20A	1-Phase	Wire range	HVCOIMBR6PS502 LXXXX
	20A	3-Phase		HVCOIMBR6PS702 LXXXX
	32A	1-Phase	6mm ²	HVCOIMBR6PF506 LXXXX
	32A	3-Phase	6mm ²	HVCOIMBR6PF706 LXXXX
	32A	1-Phase	4mm ²	HVCOIMBR6PF504 LXXXX
	32A	3-Phase	4mm ²	HVCOIMBR6PF704 LXXXX

Compliant with IEC 62196-2 standard sheet 2-II e & EN17186.

Configuration:

250V | 20A or 32A | 1-phase
480V | 20A or 32A | 3-phase



Type 2 / Mode 3	Vehicle connector (Shutter version)			
	20A (Potted)	1-Phase	Wire range	HVCOSMR6PS502 LXXXX
	32A (Potted)	1-Phase		HVCOSMR6PF504 LXXXX
	32A (Potted)	1-Phase	6mm ²	HVCOSMR6PF506 LXXXX
	20A (Potted)	3-Phase	2.5mm ²	HVCOSMR6PS702 LXXXX
	32A (Potted)	3-Phase	4mm ²	HVCOSMR6PF704 LXXXX
	32A (Potted)	3-Phase	6mm ²	HVCOSMR6PF706 LXXXX

Compliant with IEC 62196-2 standard sheet 2-II e & EN17186.

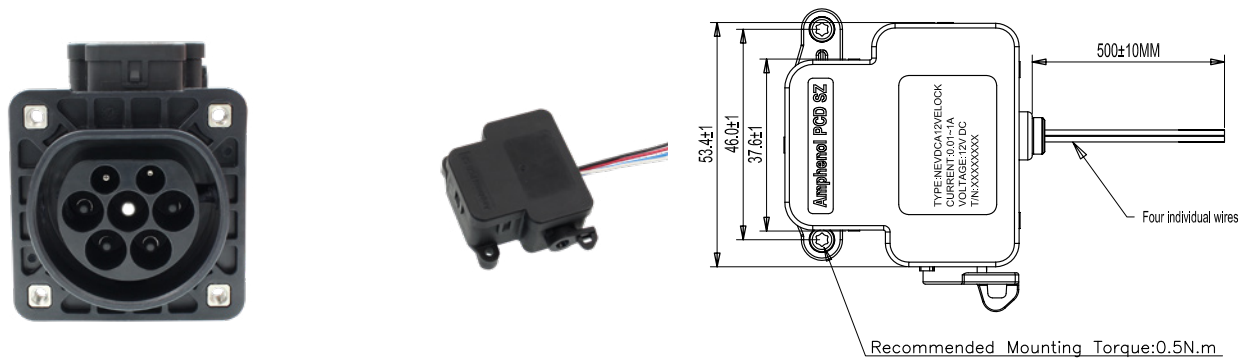
Configuration:

250V | 32A | 1-phase
480V | 32A | 3-phase

LOCKING ACTUATOR

Electric lock | AMPHENOL PCD SHENZHEN (12V, 24V)

4 wire solution is available.



NEVDCA12VELOCKLXXXX	12V	TYPE	RED	BLACK	WHITE	BLUE
NEVDCA24VELOCKLXXXX	24V	UNLOCKING	+	-	SIGNAL(R _U =1kΩ)	
		LOCKING	-	+	SIGNAL(R _L =11kΩ)	

PROTECTION CAP WITH HINGED LID FOR EVSE SIDE

P/N		DRAWING	
HVCOISLIDX ^{BLUE} XX	 Press		
HVCOISLIDX ^{CYAN} XX	 Pull	 Self-closing type	
P02B000446XX	 Pull		ONLY AFTER PASSING THE CERTIFICATION CAN THE WORDS "EV", "TYPEA" AND "IP-CLASS" BE PRINTED. THE "C" LOGO CAN ONLY BE PRINTED AFTER COMPLETING THE CERTIFICATION INSTALLATION TORQUE: 2.5±0.15N.m

Technical drawings of the IEC62196-2 standard socket outlet, showing dimensions and labels.

Top View Dimensions:

- Overall Width: 73.0
- Overall Height: 85.5
- Distance from top edge to contact area: $17.5.0$
- Distance from left edge to contact area: 61.0 ± 0.3
- Distance from bottom edge to contact area: 59.0 ± 0.3
- Distance from right edge to contact area: 58.0 ± 0.3

Side View Dimensions:

- Depth of socket: 15.3
- Gasket thickness: 1.8 GASKET

Front View Dimensions:

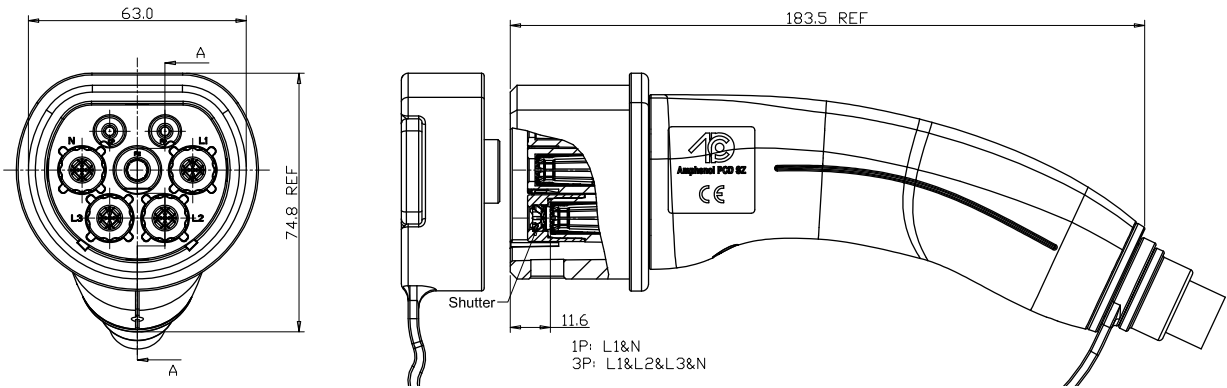
- Overall Width: 78.7
- Overall Height: 40.5
- Distance from top edge to mounting holes: 70.8
- Distance from bottom edge to mounting holes: 70.8

Labels and Notes:

- CP, PP, 5X Ø 6.5, PE, LI, L2, L3
- INTERFACER CONFORM TO IEC62196-2 STANDARD SHEET 2-11a
- CABLE OUT OF SOCKET OUTLET WITHOUT SEALING
- BLIND HOLE
- 2X R7.0
- Ø 10.0

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POTTED VEHICLE CONNECTOR DIMENSIONS

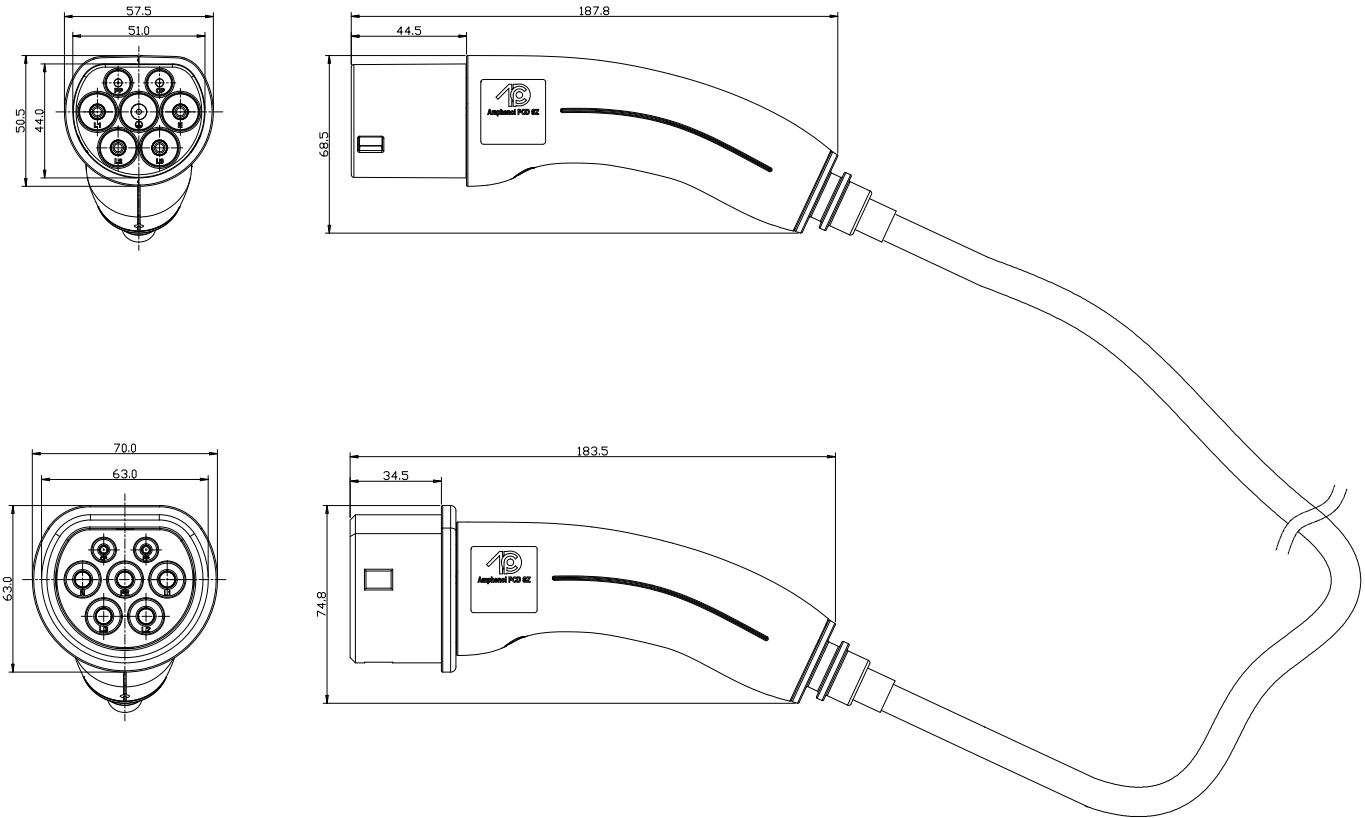


PLUG (EVSE) + VEHICLE CONNECTOR (EV) DIMENSIONS - MODE 3



Part Number		
16/20A	1-Phase	HVCOIMBSCR6PS502LXXXX
16/20A	3-Phase	HVCOIMBSCR6PS702LXXXX
32A	1-Phase	HVCOIMBSCR6PF504LXXXX
32A	3-Phase	HVCOIMBSCR6PF704LXXXX
32A	1-Phase	HVCOIMBSCR6PF506LXXXX
32A	3-Phase	HVCOIMBSCR6PF706LXXXX

LXXXX: Cable lenght (unit in mm)



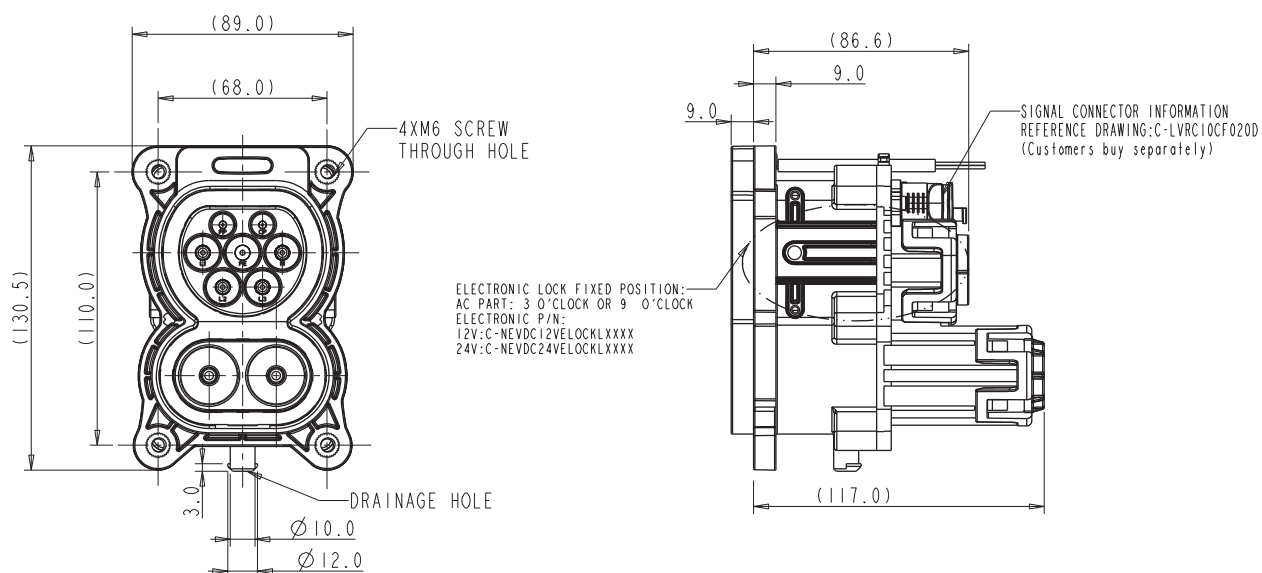
**KEY FEATURES:**

Compliant with:
IEC 62196-2
IEC 62196-3

Vehicle connector:
EN17186, CE, UKCA

MECHANICAL	
Mating cycles	Inlet: > 10,000 cycles (unloaded) Vehicle Connector: > 20,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	See page 23 and 25
Rated voltage	See page 23 and 25
Temperature sensor (Optional)	The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors
ENVIRONMENTAL	
Protection degree	IP44 (mated) IP55 (with lids) IP67 (enclosure)
Ambient temperature	-40°C to 50°C -40°C to 45°C (400A)
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

IEC COMBO VEHICLE INLET DIMENSIONS (VERSION A)



IEC COMBO ELECTRICAL SPECIFICATIONS

Combined interface		Functions
1-phase	3-phase	
250V 32A, 63A	480V 32A, 63A	L1 (Mains 1) - Optional
-	480V 32A, 63A	L2 (Mains 2) - Optional
-	480V 32A, 63A	L3 (Mains 3) - Optional
250V 32A, 63A	480V 32A, 63A	N (Neutral) - Optional
Rated for fault		PE (Protective Ground/Earth)
30V 2A		CP (Control pilot)
30V 2A		PP (Proximity)
1000V 150A, 200A, 250A, 300A		DC+ (High power d.c.)
1000V 150A, 200A, 250A, 300A		DC- (High power d.c.)

IEC COMBO VEHICLE INLET WITH LED DIMENSIONS (VERSION B - PCBA)

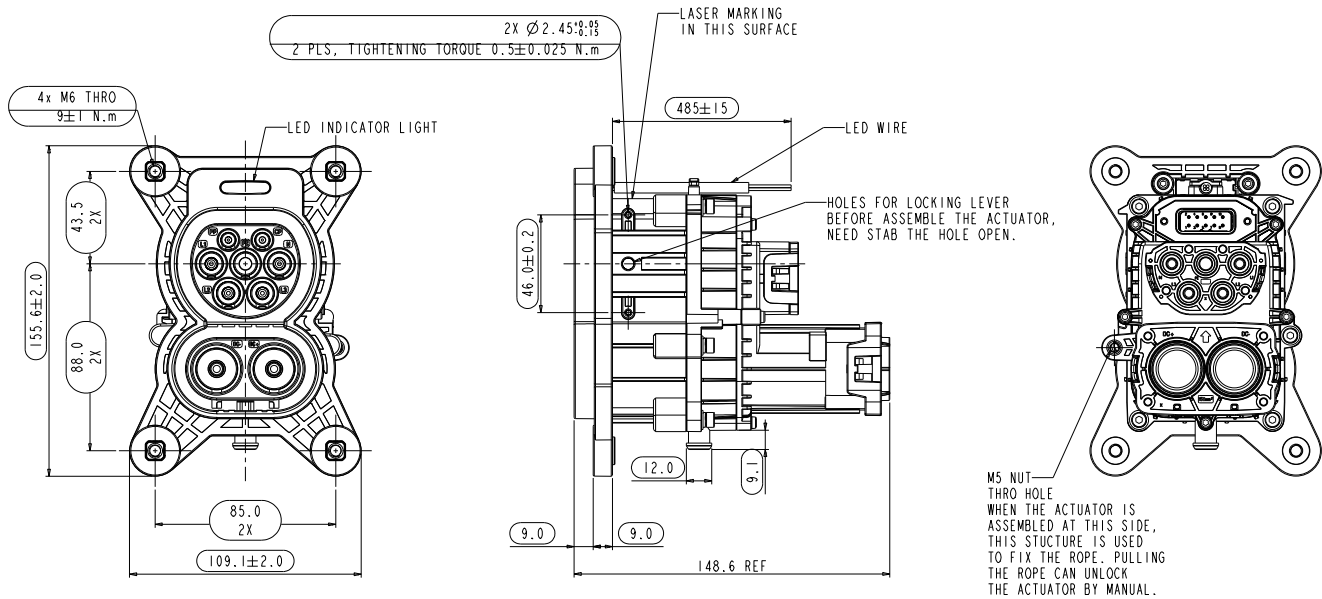
Rear mount without protection cap



Rear mount with protection cap



Part Number:
P02B000051



Signal connector with cable assembly



P/N	Positions
P08B002345	5 POS
P08B002344	8 POS
P08B002343	9 POS

VERSION A

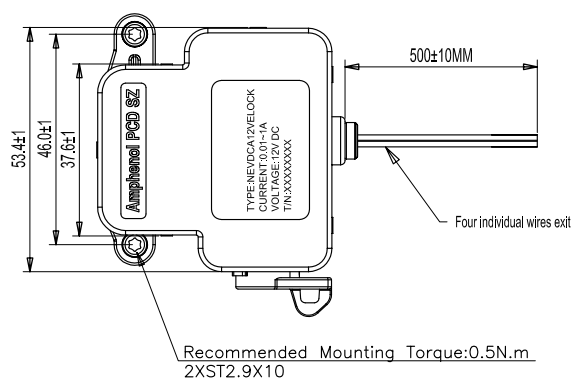
P/N	AC		DC		LED	Thermistor
	Rated current (A)	Cable size (mm ²)	Rated current (A)	Cable size (mm ²)		
HVCOCFC11A	1 x 32	6	150	35	12V	PT1000(DC)+NTC(AC)
HVCOCFD11A	3 x 32	6	150	35	12V	PT1000(DC)+NTC(AC)
HVCOCFC08A	1 x 32	6	200	50	12V	PT1000(DC)+NTC(AC)
HVCOCFD08A	3 x 32	6	200	50	12V	PT1000(DC)+NTC(AC)
HVCOCFC05A	1 x 32	6	250	70	12V	PT1000(DC)+NTC(AC)
HVCOCFD05A	3 x 32	6	250	70	12V	PT1000(DC)+NTC(AC)
HVCOCFC02A	1 x 32	6	300	95	12V	PT1000(DC)+NTC(AC)
HVCOCFD02A	3 x 32	6	300	95	12V	PT1000(DC)+NTC(AC)

VERSION B - PCBA

P/N	Rated current (AC)	Rated current (DC)	Phase	AC cable size	DC cable size	Temperature sensor (DC) Recommended
HVCOCF0210DN	32A	500A	3	6mm ²	150mm ²	PT1000
HVCOCF0212DN	63A	500A	3	16mm ²	150mm ²	PT1000
HVCOCF0213DN	32A	400A	3	6mm ²	120mm ²	PT1000
HVCOCF0215DN	63A	400A	3	16mm ²	120mm ²	PT1000
HVCOCF0216DN	32A	300A	3	6mm ²	95mm ²	PT1000
HVCOCF0218DN	63A	300A	3	16mm ²	95mm ²	PT1000
HVCOCF0219DN	32A	200A	3	6mm ²	70mm ²	PT1000
HVCOCF0221DN	63A	200A	3	16mm ²	70mm ²	PT1000
HVCOCF0222DN	32A	500A	1	6mm ²	150mm ²	PT1000
HVCOCF0224DN	63A	500A	1	16mm ²	150mm ²	PT1000
HVCOCF0225DN	32A	400A	1	6mm ²	120mm ²	PT1000
HVCOCF0227DN	63A	400A	1	16mm ²	120mm ²	PT1000
HVCOCF0228DN	32A	300A	1	6mm ²	95mm ²	PT1000
HVCOCF0230DN	63A	300A	1	16mm ²	95mm ²	PT1000
HVCOCF0231DN	32A	200A	1	6mm ²	70mm ²	PT1000
HVCOCF0233DN	63A	200A	1	16mm ²	70mm ²	PT1000
HVCOCF0234DN	-	500A	-	-	150mm ²	PT1000
HVCOCF0235DN	-	400A	-	-	120mm ²	PT1000
HVCOCF0236DN	-	300A	-	-	95mm ²	PT1000
HVCOCF0237DN	-	200A	-	-	70mm ²	PT1000

Electric lock | AMPHENOL PCD SHENZHEN (12V, 24V)

4-wire solution is available for both 12V and 24V.



P/N (12V): **NEVDCA12VELOCK**

TYPE	RED	BLACK	WHITE	BLUE
UNLOCKING	+	-	SIGNAL($R_U=1k\Omega$)	
LOCKING	-	+	SIGNAL($R_L=11k\Omega$)	

P/N (24V): **NEVDCA24VELOCK**

TYPE	RED	BLACK	WHITE	BLUE
UNLOCKING	+	-	SIGNAL($R_U=+\infty\Omega$)	
LOCKING	-	+	SIGNAL($R_L=0\Omega$)	



9 o'clock



3 o'clock

IEC COMBO VEHICLE CONNECTOR



P/N	Rated current (DC)	DC cable size	PE cable size
HVCOCMTR8PF200AML	200A	2 x 2 x 25mm ²	4mm ² , 6mm ²
HVCOCMTR8PF250AML	250A	2 x 2 x 35mm ²	4mm ² , 6mm ²
HVCOCMTR8PF350AML	350A	2 x 2 x 50mm ²	4mm ² , 6mm ²
HVCOCMTR8PF380AML	380A	2 x 2 x 50mm ²	6mm ²
HVCOCMTR8PF400AML	400A	2 x 2 x 50mm ²	6mm ²
HVCOCMTR8PF150AL	150A	2 x 35mm ²	16mm ²
HVCOCMTR8PF125AL	125A	2 x 50mm ²	25mm ²

IEC COMBO VEHICLE CONNECTOR - 40A, 65A, 80A



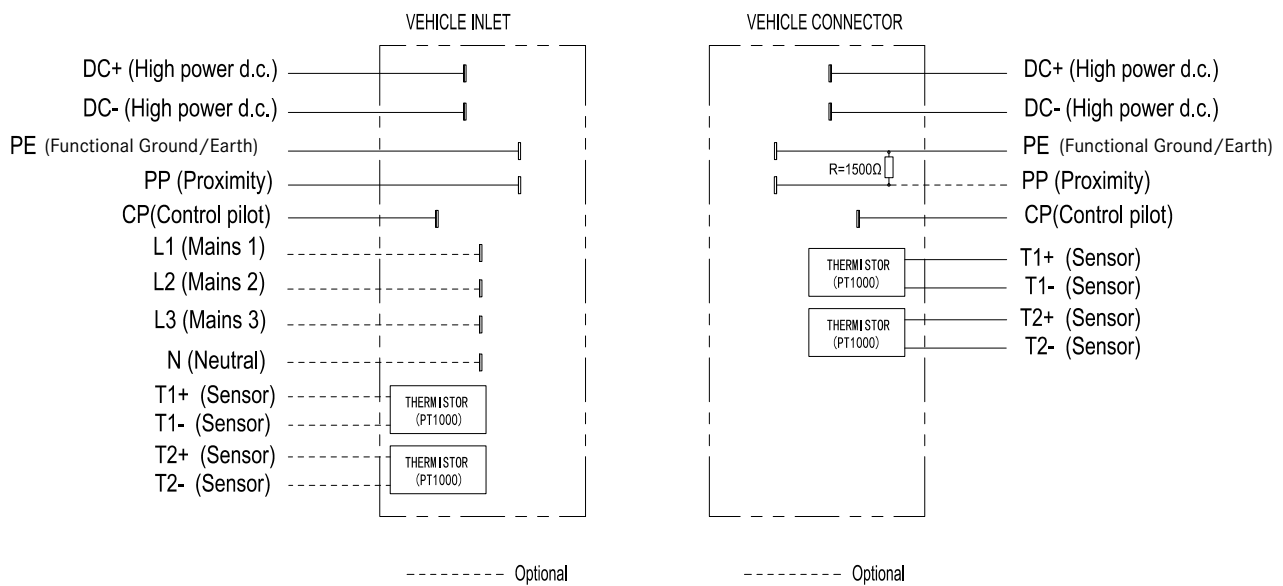
Mating cycles:	> 10,000 cycles (unloaded)
Insertion / withdrawal force:	< 100N
Rated current:	80A@16mm ² 65A@10mm ² 40A@6mm ²
Rated voltage:	1000V (DC)
Standards:	IEC62196.1, IEC62196.3
Temperature sensor:	PT1000
Waterproof:	IP55 (mated)
Ambient temperature:	-30 to 50°C
ROHS:	Yes

P/N	Rated current
HVCOCMTR8PF506LXXXX	40A
HVCOCMTR8PF510LXXXX	65A
HVCOCMTR8PF516LXXXX	80A

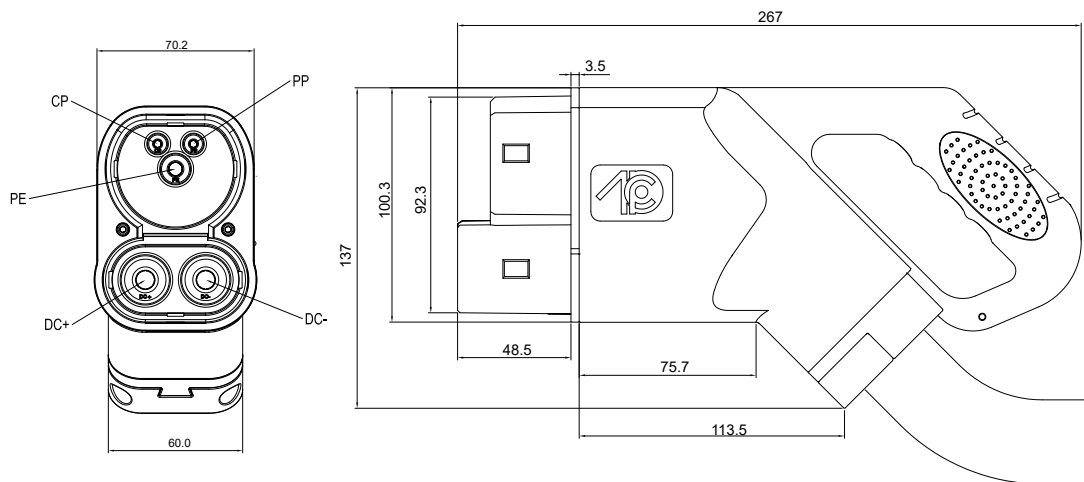
IEC COMBO ELECTRICAL SPECIFICATIONS

Combined interface	Functions
Rated for fault	PE (Functional Ground/Earth)
30V 2A	CP (Control pilot)
30V 2A	PP (Proximity)
1000V 200A, 250A, 300A, 350A, 380A, 400A	DC+ (High power d.c.)
1000V 200A, 250A, 300A, 350A, 380A, 400A	DC- (High power d.c.)

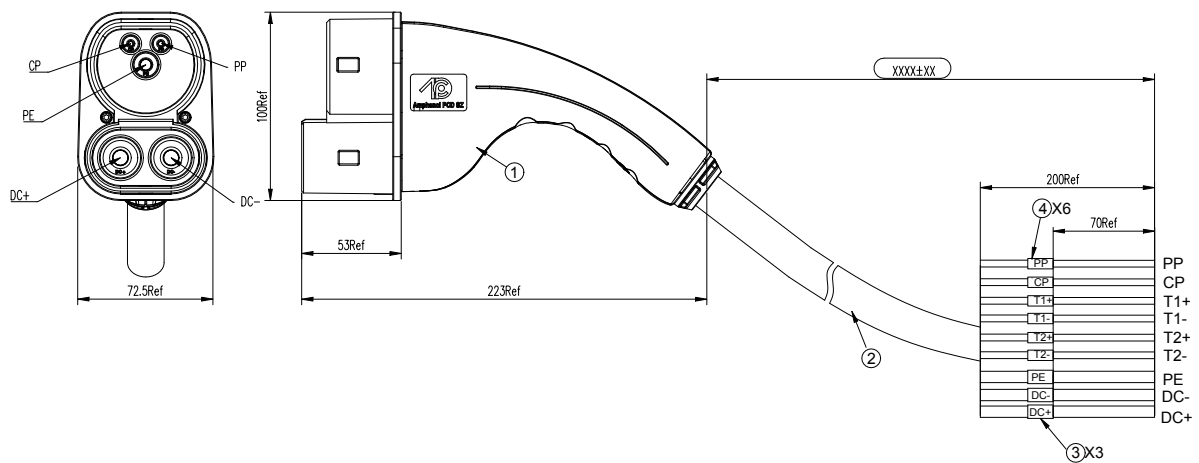
CIRCUIT DIAGRAMS



IEC COMBO VEHICLE CONNECTOR DIMENSIONS



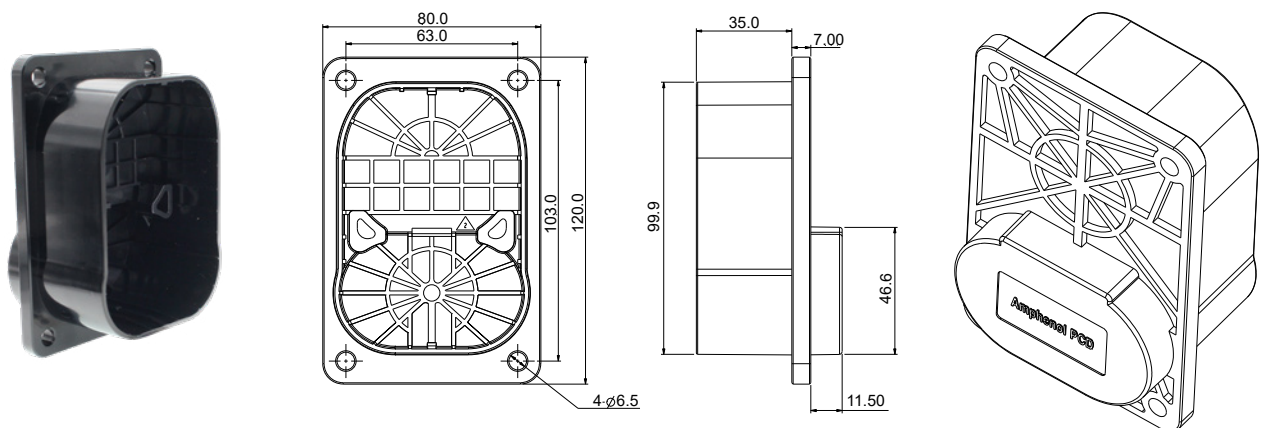
IEC COMBO VEHICLE CONNECTOR - 40A, 80A



HOLDER FOR PLUG

P/N: **C-C220027208**

(Connectors do not include, please order seperately)



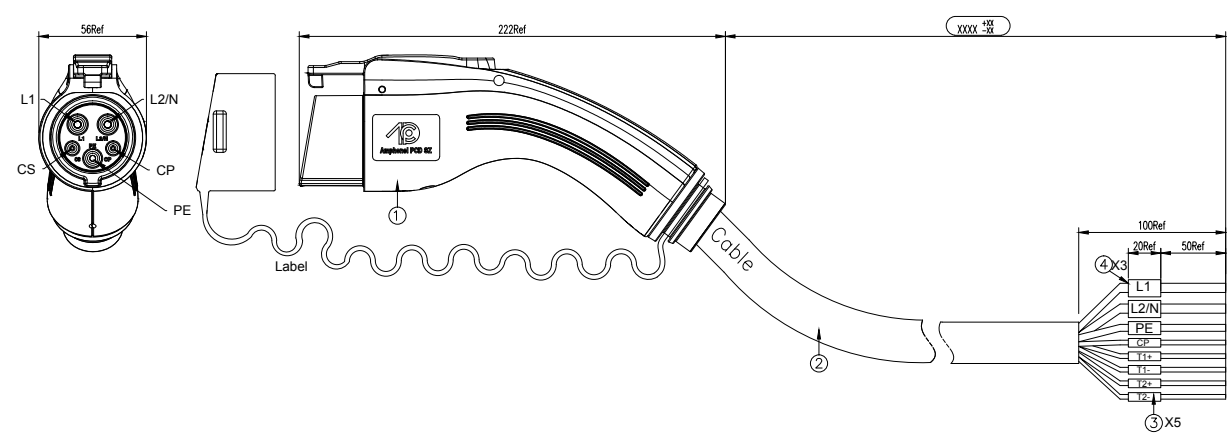


KEY FEATURES:

Compliant with:
SAE J1772, IEC 62196-1

MECHANICAL	
Mating cycles	> 10,000 cycles
Insertion / withdrawal force	100N Max
ELECTRICAL	
Rated current	L1, L2 : 16A, 32A, 48A/50A, 80A CS, CP: 2A
Rated voltage	L1, L2 : 240V AC CS, CP: 30V
Withstand voltage	2000V AC
Insulation resistance	> 100MΩ (500V DC)
ENVIRONMENTAL	
Protection degree	Type 3S
Ambient temperature	-30°C to 50°C
MATERIAL	
Shell	Thermoplastic
Shell color	Black
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

SAE TYPE1 AC CONNECTOR DIMENSIONS



SAE TYPE1 AC CONNECTOR - PART NUMBER

Shell color: Black

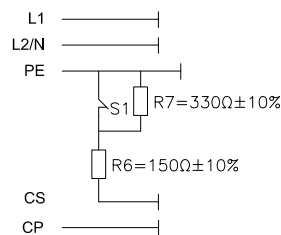
LXXXX: Cable length (unit in mm)



POTTED VERSION

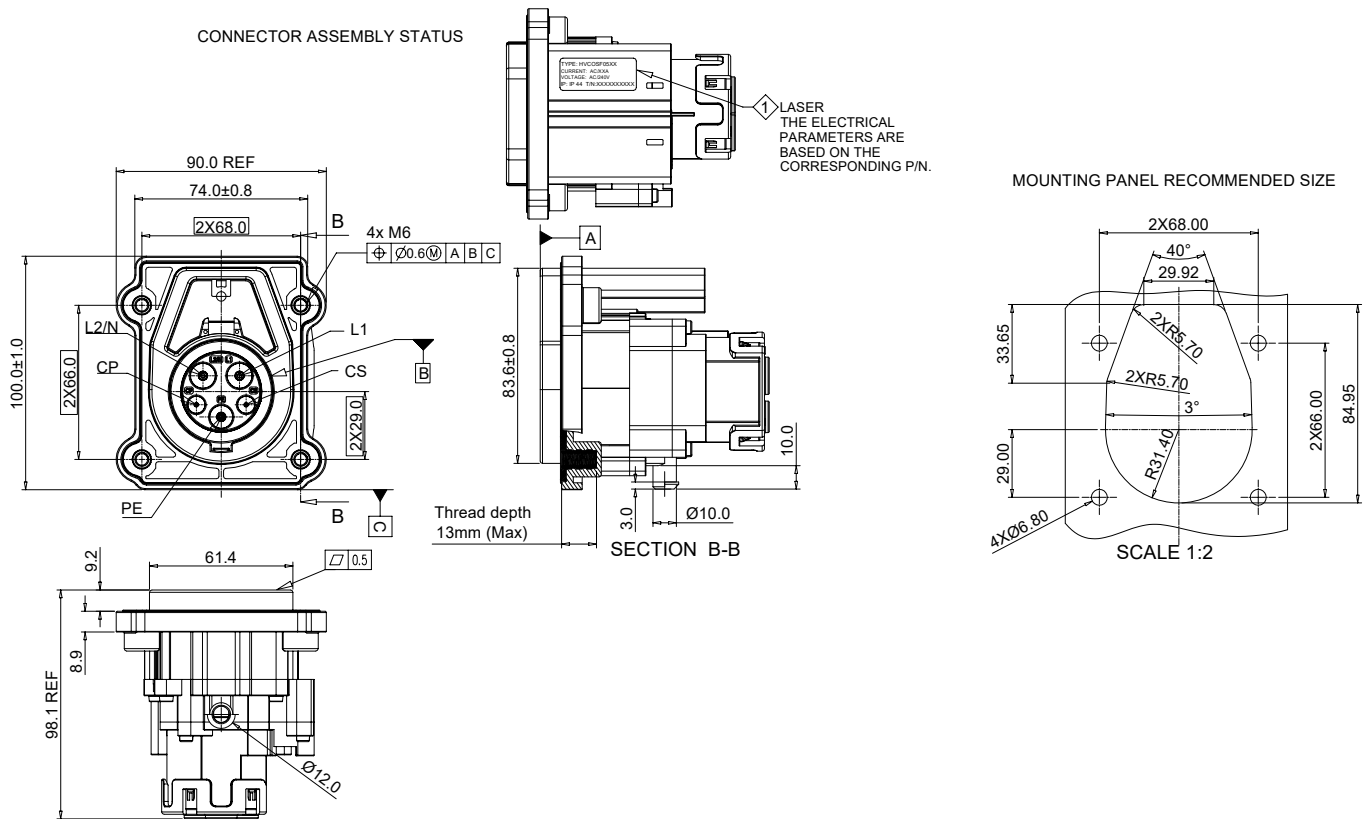
Part Number		Sensor
32A	HVCOSAEMACBPF506LXXXX	N/A
32A	HVCOSAEMACBPF506NLXXXX	NTC
32A	HVCOSAEMACBPF506PLXXXX	PT1000
50A	HVCOSAEMACBPF510NLXXXX	NTC
50A	HVCOSAEMACBPF510PLXXXX	PT1000
80A	HVCOSAEMACBPF516NLXXXX	NTC
80A	HVCOSAEMACBPF516PLXXXX	PT1000

CIRCUIT DIAGRAMS & CABLE SIZE



Current	Cable size		
	80A	50A	32A
L1,L2/N	6 AWG	8 AWG	10 AWG
PE	8 AWG	10 AWG	10 AWG
CS,CP	18 AWG		

SAE TYPE1 AC SOCKET DIMENSIONS



SAE TYPE1 AC SOCKET - PART NUMBER



ELECTRIC LOCK

P/N (12V): HVEL12GS002S2



Part Number	Rated Current	Cable Spec for L1 & L2/N PIN	Cable Spec for PE PIN
HVCOSF0500	L1& L2/N : 16A	2.5mm ² (14AWG) shielded cable O.D.: 4.2 to 4.7mm	2.5mm ² (14AWG) unshielded cable O.D.: 3.3 to 3.6mm
HVCOSF0500S1	L1& L2/N : 16A	2.5mm ² (14AWG) shielded cable O.D.: 4.8 to 5.2mm	2.5mm ² (14AWG) shielded cable O.D.: 4.8 to 5.2mm
HVCOSF0501	L1& L2/N : 32A	6mm ² (10AWG) shielded cable O.D.: 6.0 to 6.5mm	6mm ² (10AWG) unshielded cable O.D.: 4.6 to 5.3mm
HVCOSF0502	L1& L2/N : 48A	10mm ² (8AWG) shielded cable O.D.: 8.2 to 8.8mm	10mm ² (8AWG) unshielded cable O.D.: 5.9 to 6.5mm
HVCOSF0503	L1& L2/N : 80A	16mm ² (6AWG) shielded cable O.D.: 9.6 to 10.2mm	16mm ² (6AWG) unshielded cable O.D.: 7.7 to 8.3mm
HVCOSF0504	L1& L2/N : 80A	25mm ² (4AWG) shielded cable O.D.: 11.6 to 12.2mm	25mm ² (4AWG) unshielded cable O.D.: 9.4 to 10mm

Both processes, **crimping** and **ultrasonic welding** are available.

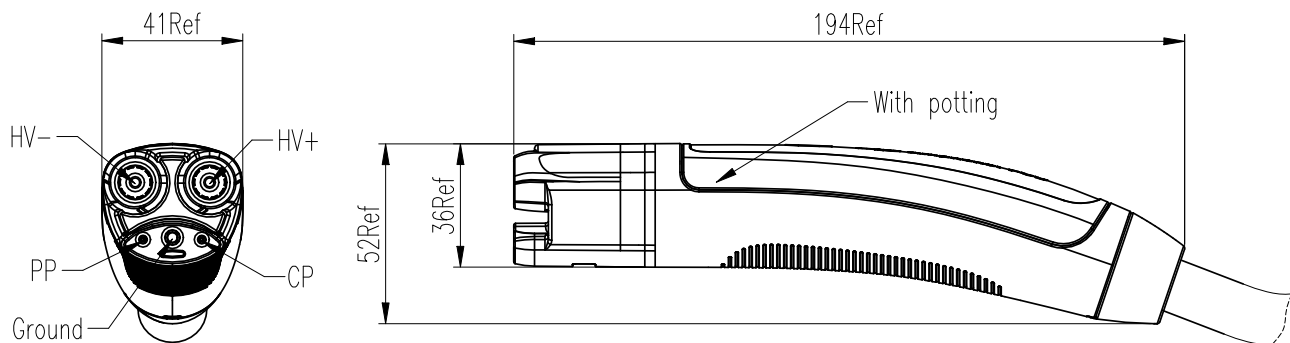


KEY FEATURES:

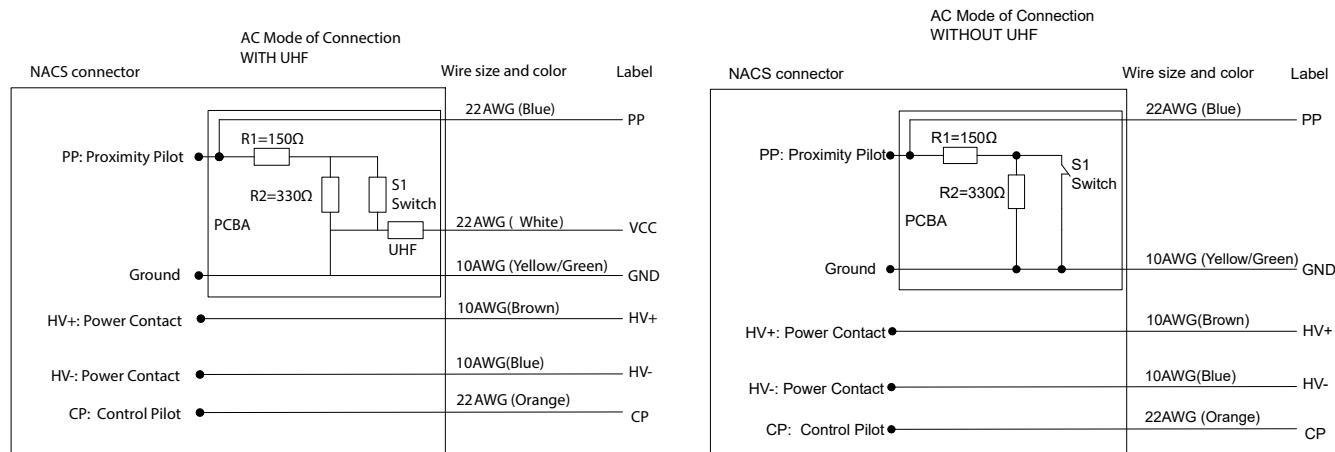
Compliant with:
SAE J1772
SAE J3400
UL2251

MECHANICAL	
Mating cycles	> 10,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	40A, 50A, 80A
Rated voltage	600V AC
ENVIRONMENTAL	
Protection degree	Type 3S IP67 (enclosure)
Ambient temperature	-40°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

NACS AC VEHICLE CONNECTOR DIMENSIONS



NACS AC VEHICLE CONNECTOR - CIRCUIT DIAGRAMS



NACS AC VEHICLE CONNECTOR - PART NUMBER

	HVCO	N1MA	XXA	X	LXXXX	X
NACS AC Vehicle Connector						
Rated current AC:						
40A: 40A						
50A: 50A						
80A: 80A						
Temperature sensor:						
N: NTC (Unit in mm)						
P: PT1000 (Unit in mm)						
N/A: No sensor						
Cable accessories:						
XXXX: Cable accessories or customer code						
UHF:						
U: Yes (315MHZ)						
N/A: No						

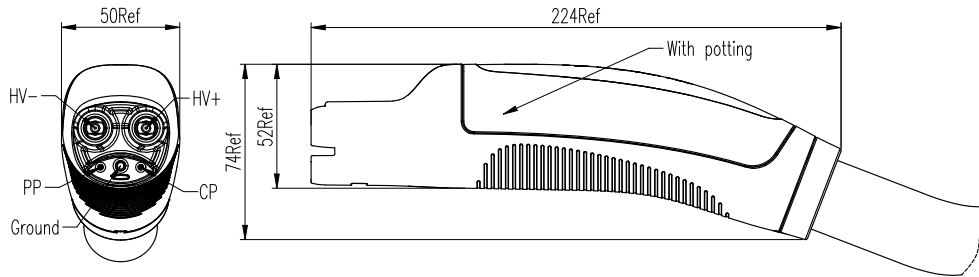


KEY FEATURES:

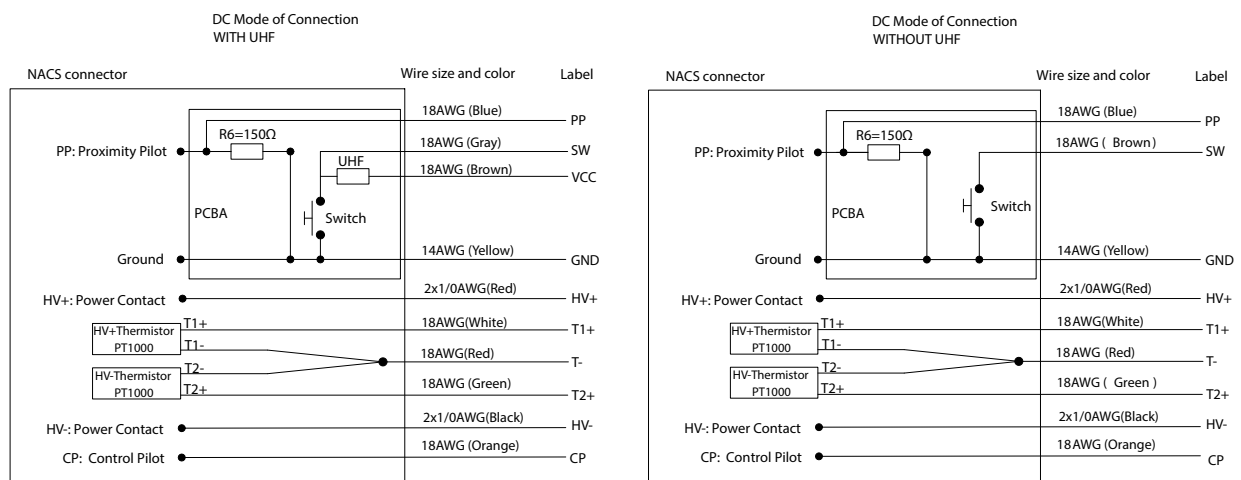
Compliant with:
SAE J3400
UL2251

MECHANICAL	
Mating cycles	> 20,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	200A, 250A, 380A, 600A
Rated voltage	1000V DC
ENVIRONMENTAL	
Protection degree	Type 3R IP67 (enclosure)
Ambient temperature	-40°C to 50°C -40°C to 40°C (for 380A)
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

NACS DC VEHICLE CONNECTOR DIMENSIONS



NACS DC VEHICLE CONNECTOR - CIRCUIT DIAGRAMS



NACS DC VEHICLE CONNECTOR - PART NUMBERS

	HVCO	N1M	X	XXA	X	LXXXX	X
NACS DC Vehicle Connector							
PCBA:							
B: Electric circuit B							
C: Electric circuit C							
Rated current DC:							
80A: 80A							
200A: 200A							
250A: 250A							
380A: 380A							
Temperature sensor:							
N: NTC (Unit in mm)							
P: PT1000 (Unit in mm)							
N/A: No sensor							
Cable accessories:							
XXXX: Cable accessories or customer code							
UHF:							
U: Yes (315MHZ)							
N/A: No							

LXXXX: Cable lenght (unit in mm)

Liquid-cooled NACS 600A	Standard	UHF	Temperature sensor
HVCON2MB600APLXXXX	SAE J3400 Diagram 4	-	PT1000
HVCON2MB600APLXXXXU	SAE J3400 Diagram 4	315MHZ	PT1000
HVCON2MC600APLXXXX	SAE J3400 Diagram 3	-	PT1000

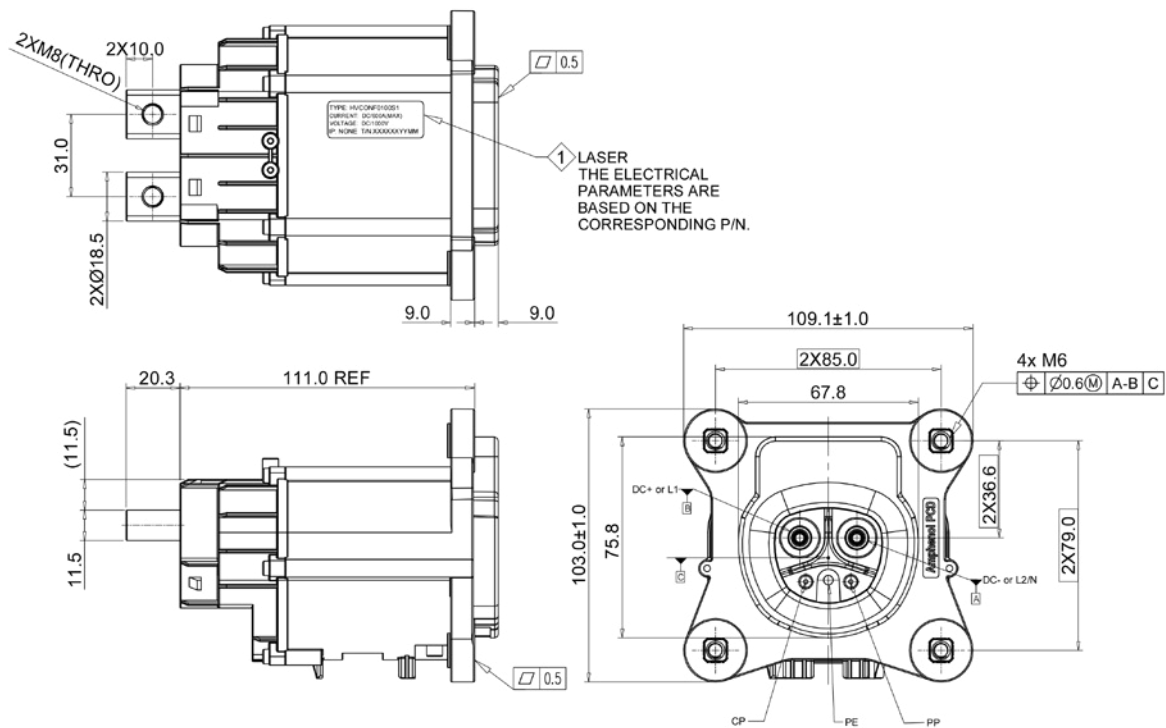


KEY FEATURES:

Compliant with:
UL2251
SAE J3400

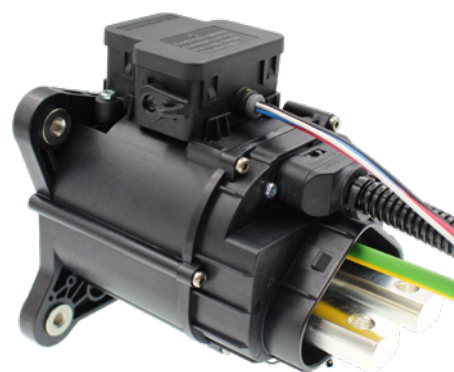
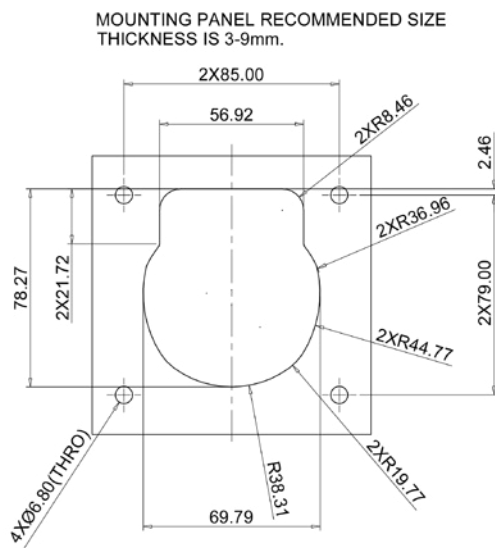
MECHANICAL	
Mating cycles	> 10,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	600A Max
Rated voltage	1000V DC
Temperature sensor	PT1000 The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors
ENVIRONMENTAL	
Ambient temperature	-30°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

NACS INLET BUSBAR VERSION | DIMENSIONS



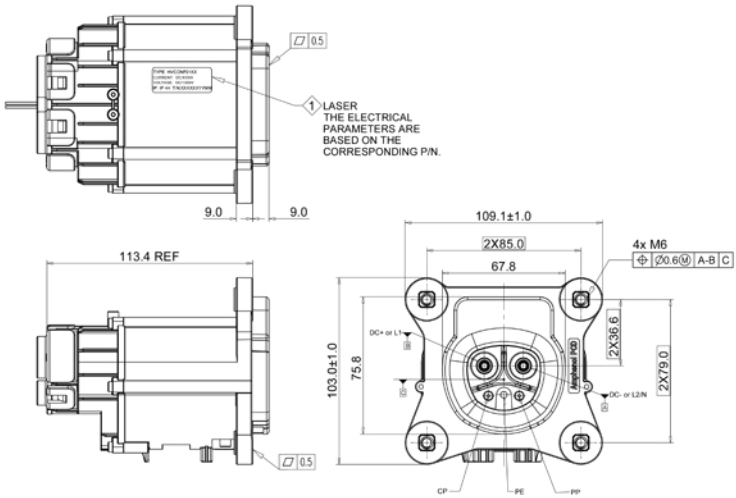
MOUNTING PANEL

PART NUMBER



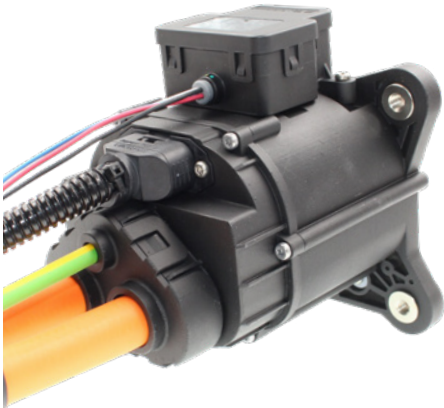
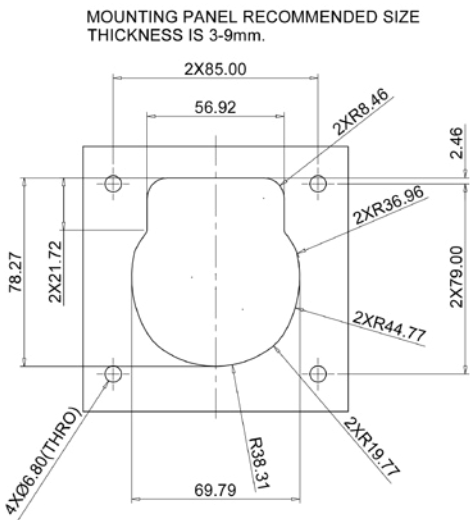
Part Number
HVCONF0100S1

NACS INLET CRIMPING VERSION | DIMENSIONS



MOUNTING PANEL

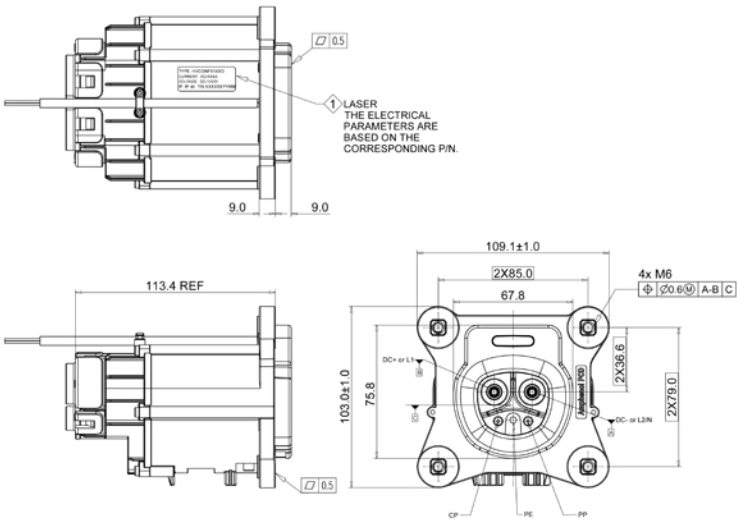
PART NUMBER



Part Number
HVCONF01XX

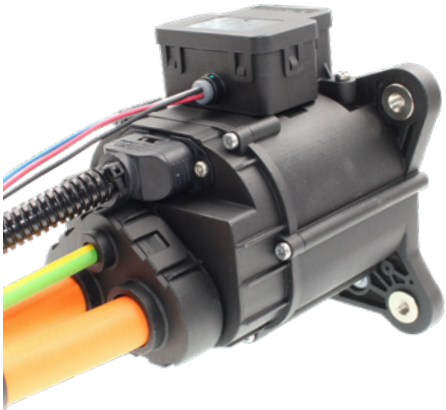
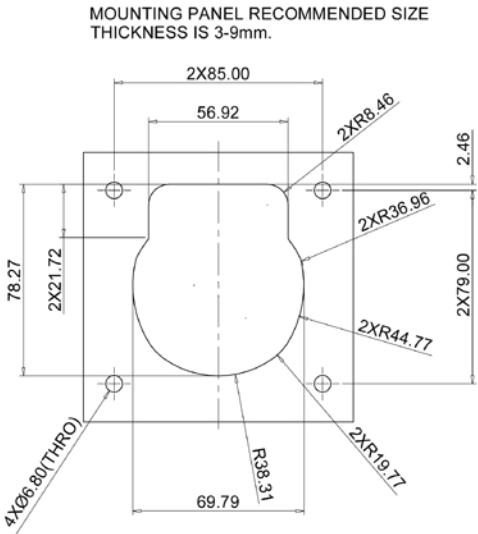
ITEM	PART NUMBER	RATED CURRENT & VOLTAGE	CABLE SPEC FORHV+& HV- PIN	CABLE SPEC FOR PE PIN
1	HVCONF0101	CURRENT: DC/200A VOLTAGE: DC/1000V THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLE5.	50mm ² (1/0 AWG) SHIELD CABLE, I.D.:11.85±0.35mmO.D.:15.5±0.3mm	10mm ² (8AWG) UNSHIELD CABLE, O.D.: 5.9~6.5mmmm
2	HVCONF0102	CURRENT: DC/250A VOLTAGE: DC/1000V THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLE5.	70mm ² (2/0 AWG) SHIELD CABLE, I.D.: 13.7±0.7mmO.D.:17.8±0.4mm	
3	HVCONF0103	CURRENT: DC/350A VOLTAGE: DC/1000V THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLE5.	95mm ² (3/0 AWG) SHIELD CABLE, I.D.:16.5±0.7mmO.D.:20.5±0.4mm	
4	HVCONF0104	CURRENT: DC/AC 40A VOLTAGE: 1000VDC/240VAC THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLE5.	6mm ² (10 AWG) SHIELD CABLE, I.D.:4.15±0.15mm O.D.:6.25±0.25mm	6mm ² (10AWG) UNSHIELD CABLE, O.D.: 4.6~5.3mmmm
5	HVCONF0105	CURRENT: DC/AC 50A VOLTAGE: 1000VDC/240VAC THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLE5.	10mm ² (8 AWG) SHIELD CABLE, I.D.: 5.7±0.3mm O.D.:8.5±0.3mm	10mm ² (8AWG) UNSHIELD CABLE, O.D.: 5.9~6.5mmmm
6	HVCONF0106	CURRENT: DC/AC 80A VOLTAGE: 1000VDC/240VAC THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLE5.	16mm ² (6 AWG) SHIELD CABLE, I.D.:6.9±0.3mm O.D.:9.9±0.3mm	16mm ² (6AWG) UNSHIELD CABLE, O.D.: 7.7~8.3mmmm

NACS INLET CRIMPING VERSION | WITH LED DIMENSIONS



MOUNTING PANEL

PART NUMBER



Part Number
HVCONF01XXD



ITEM	PART NUMBER	RATED CURRENT & VOLTAGE	CABLE SPEC FORHV+& HV- PIN	CABLE SPEC FOR PE PIN
1	HVCONF0101D	CURRENT: DC/200A VOLTAGE: DC/1000V THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLES.	50mm ² (1/0 AWG) SHIELD CABLE, I.D.:11.85±0.35mmO.D.:15.5±0.3mm	10mm ² (8AWG) UNSHIELD CABLE, O.D.: 5.9~6.5mmmm
2	HVCONF0102D	CURRENT: DC/250A VOLTAGE: DC/1000V THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLES.	70mm ² (2/0 AWG) SHIELD CABLE, I.D.: 13.7±0.7mmO.D.:17.8±0.4mm	
3	HVCONF0103D	CURRENT: DC/350A VOLTAGE: DC/1000V THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLES.	95mm ² (3/0 AWG) SHIELD CABLE, I.D.:16.5±0.7mmO.D.:20.5±0.4mm	
4	HVCONF0104D	CURRENT: DC/AC 40A VOLTAGE: 1000VDC/240VAC THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLES.	6mm ² (10 AWG) SHIELD CABLE, I.D.:4.15±0.15mm O.D.:6.25±0.25mm	6mm ² (10AWG) UNSHIELD CABLE, O.D.: 4.6~5.3mmmm
5	HVCONF0105D	CURRENT: DC/AC 50A VOLTAGE: 1000VDC/240VAC THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLES.	10mm ² (8 AWG) SHIELD CABLE, I.D.: 5.7±0.3mm O.D.:8.5±0.3mm	10mm ² (8AWG) UNSHIELD CABLE, O.D.: 5.9~6.5mmmm
6	HVCONF0106D	CURRENT: DC/AC 80A VOLTAGE: 1000VDC/240VAC THE TEMPERATURE OF THE POWER CONTACTS SHOULD BE CONTROLLED, SEE TABLES.	16mm ² (6 AWG) SHIELD CABLE, I.D.:6.9±0.3mm O.D.:9.9±0.3mm	16mm ² (6AWG) UNSHIELD CABLE, O.D.: 7.7~8.3mmmm

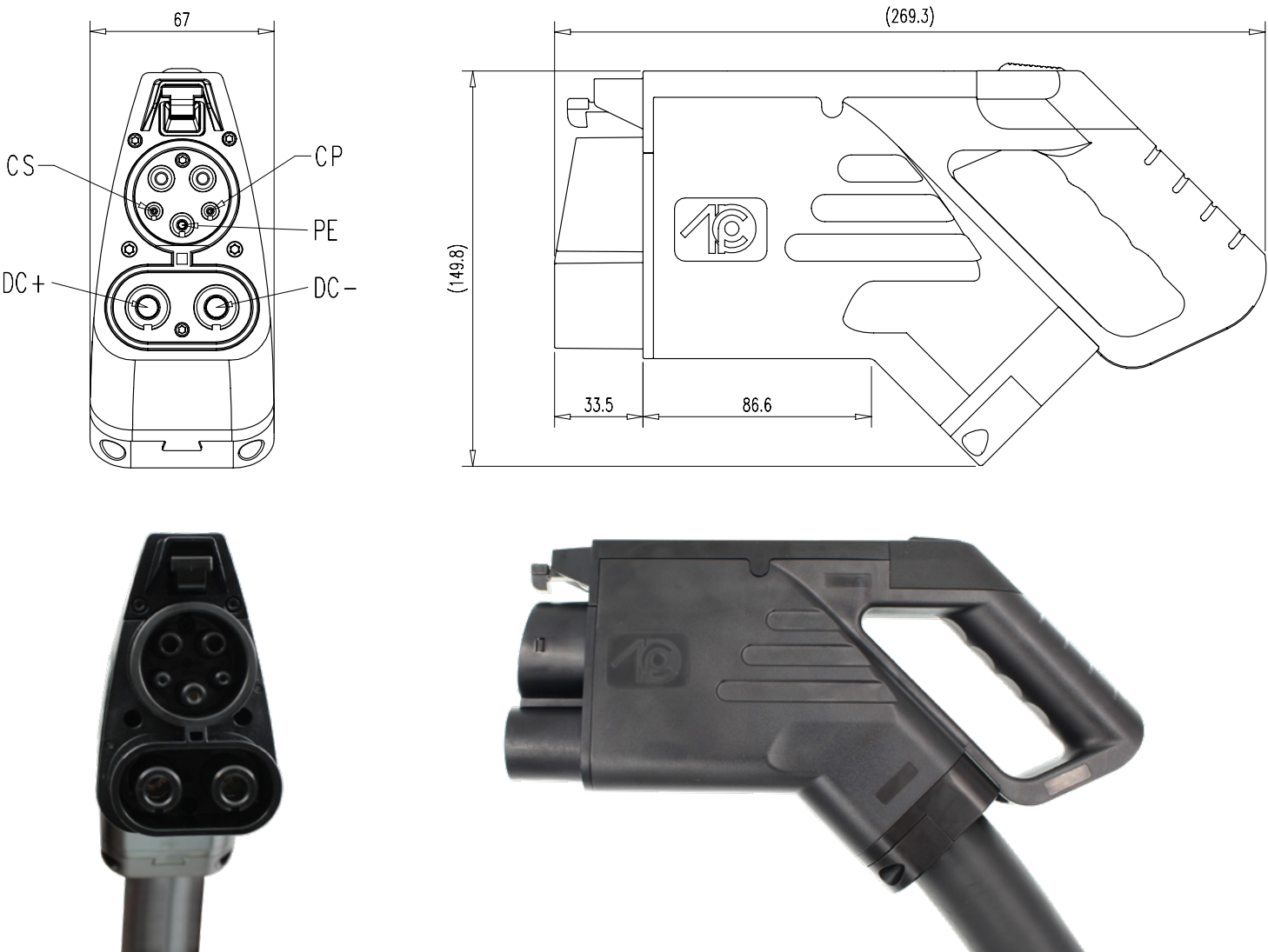


KEY FEATURES:

Compliant with:
SAE J1772
IEC 62196-3
UL2251

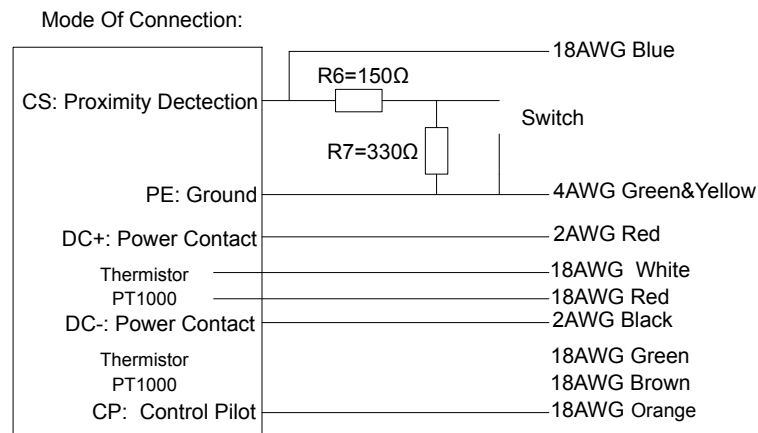
MECHANICAL	
Mating cycles	> 10,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	400A Max
Rated voltage	1000V DC
Temperature sensor	PT1000 The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors
ENVIRONMENTAL	
Protection degree	Type 3S, IP54 (mated)
Ambient temperature	-40°C to 55°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

SAE COMBO VEHICLE CONNECTOR DIMENSIONS

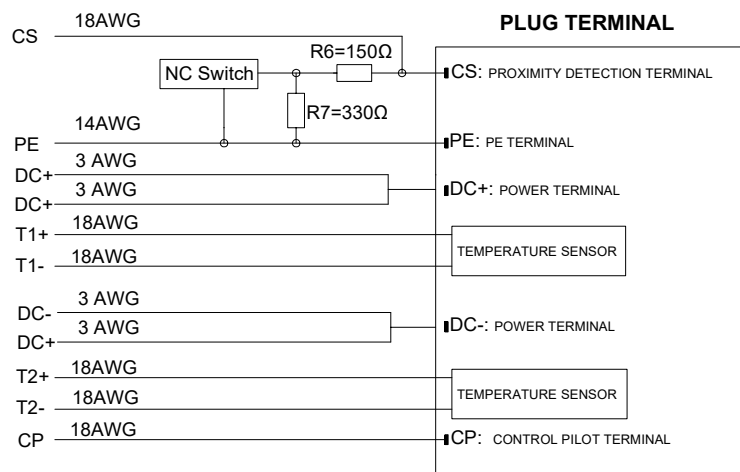


SAE COMBO VEHICLE CONNECTOR - CIRCUIT DIAGRAMS

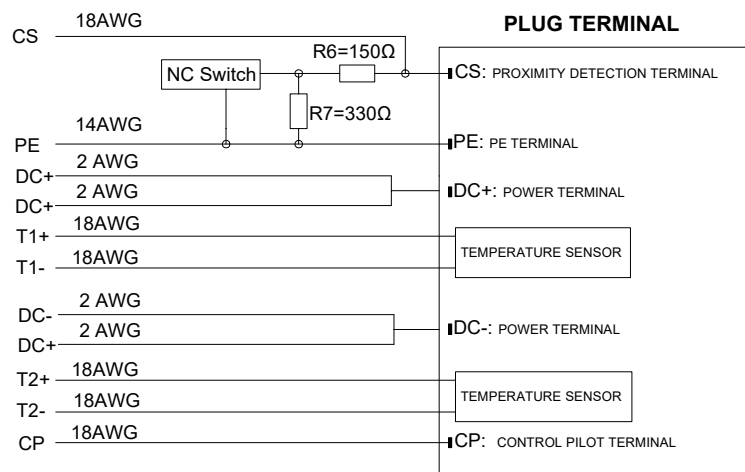
150A



200A

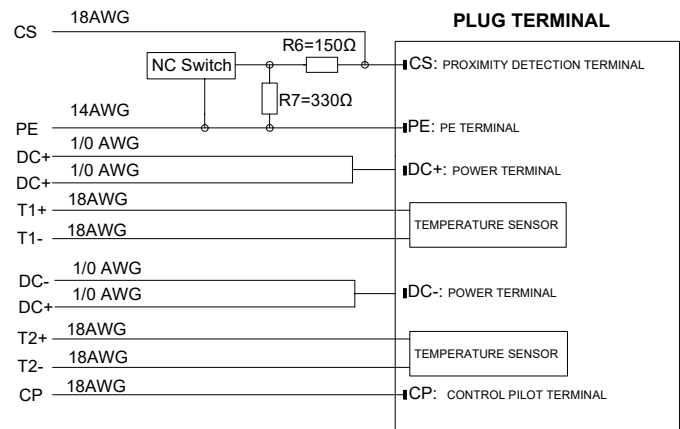


250A

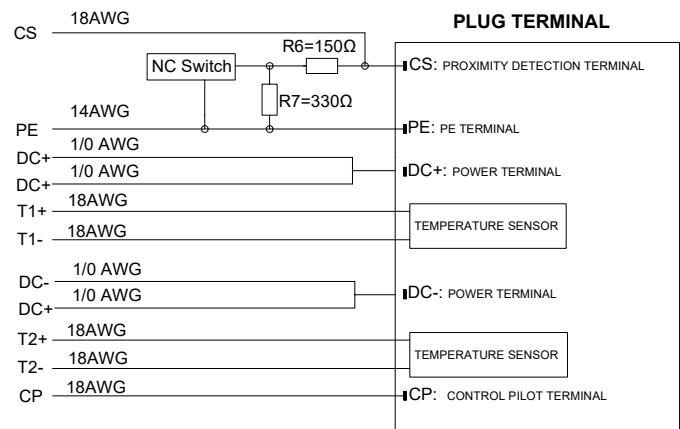


SAE COMBO VEHICLE CONNECTOR - CIRCUIT DIAGRAMS

350A



400A



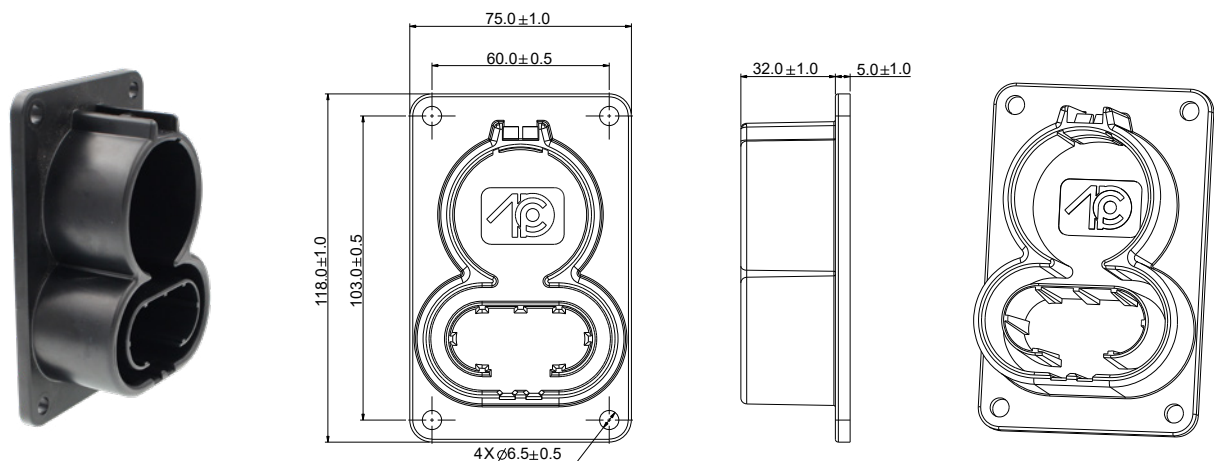
HOW TO ORDER | SAE COMBO

SAE Combo [Vehicle Connector](#)

P/N	Rated current (DC)	DC cable size	PE cable size
HVCOSAEM150AML	150A	2 AWG	4 AWG
HVCOSAEM200AM2L	200A	2 x 3 AWG	14 AWG
HVCOSAEM250AML	250A	2 x 2 AWG	14 AWG
HVCOSAEM350AML	350A	2 x 1/0 AWG	14 AWG
HVCOSAEM400AML	400A	2 x 1/0 AWG	14 AWG

HOLDER FOR PLUG

P/N: **C-P03BP00156**
(Connectors do not include, please order seperately)



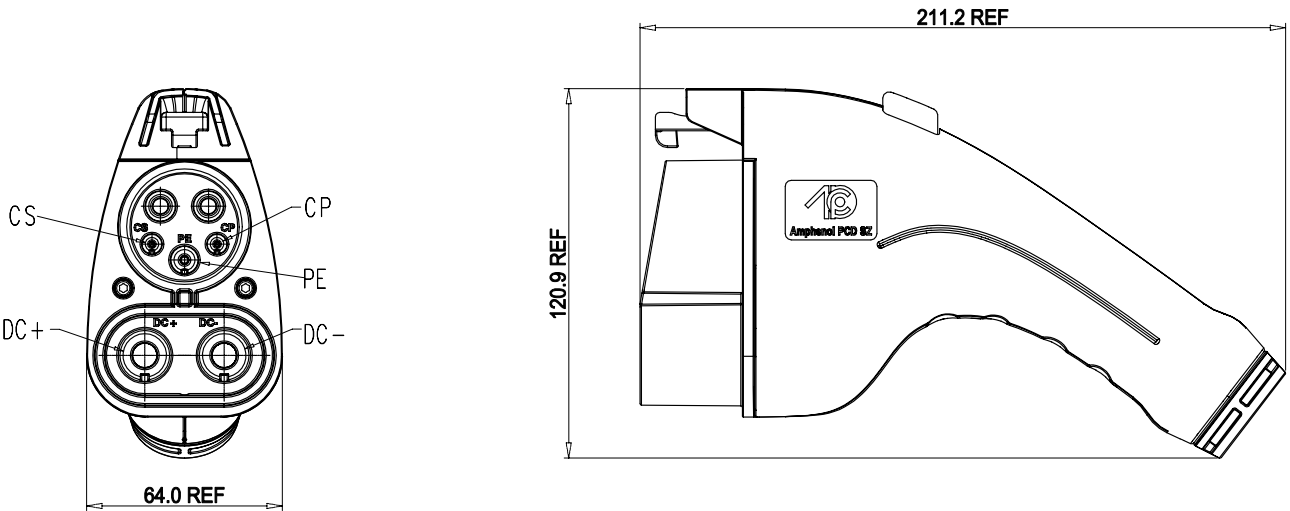


KEY FEATURES:

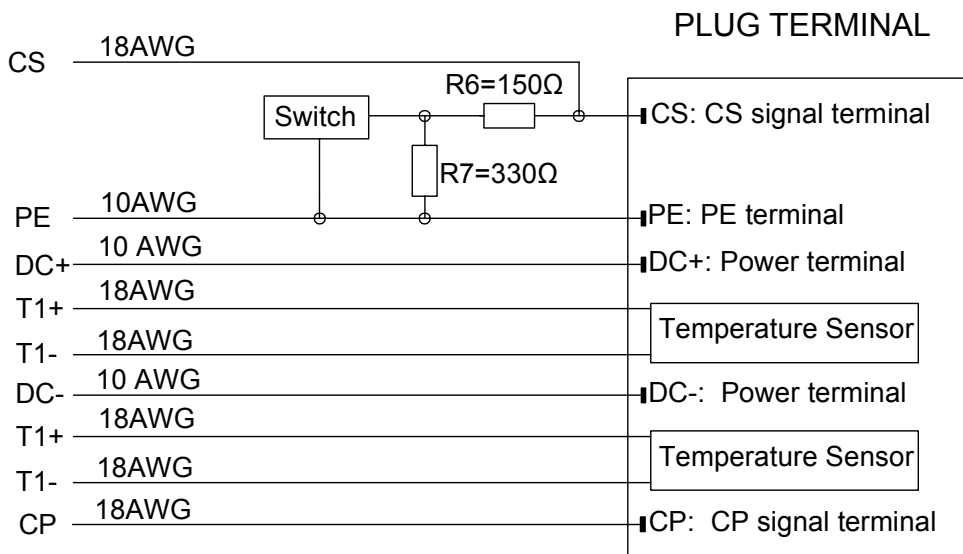
Compliant with:
SAE J1772
IEC 62196-3
UL2251

MECHANICAL	
Mating cycles	> 10,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	40A, 65A, 80A
Rated voltage	1000V DC
Temperature sensor	PT1000 The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors
ENVIRONMENTAL	
Protection degree	Type 3S
Ambient temperature	-30°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

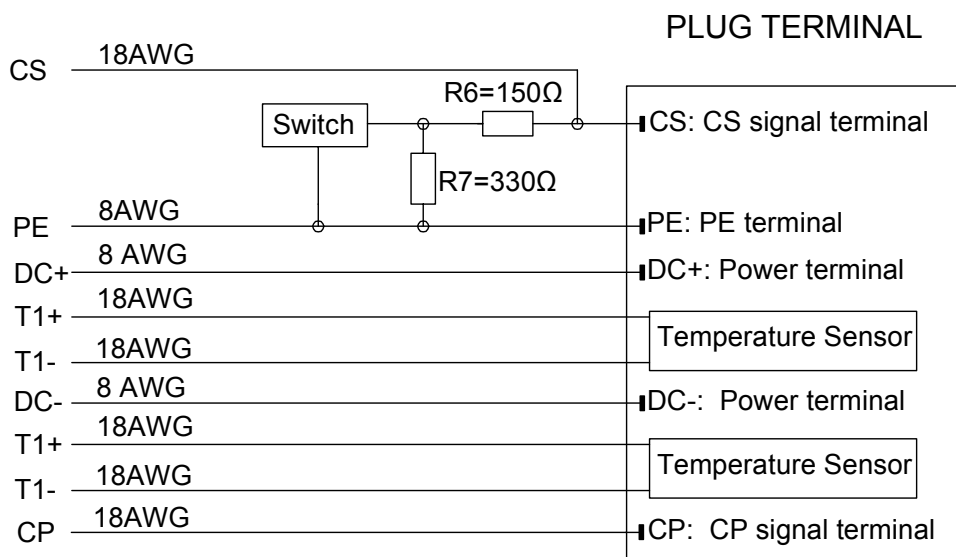
CC SAE COMBO WALL-MOUNTING VEHICLE CONNECTOR DIMENSIONS



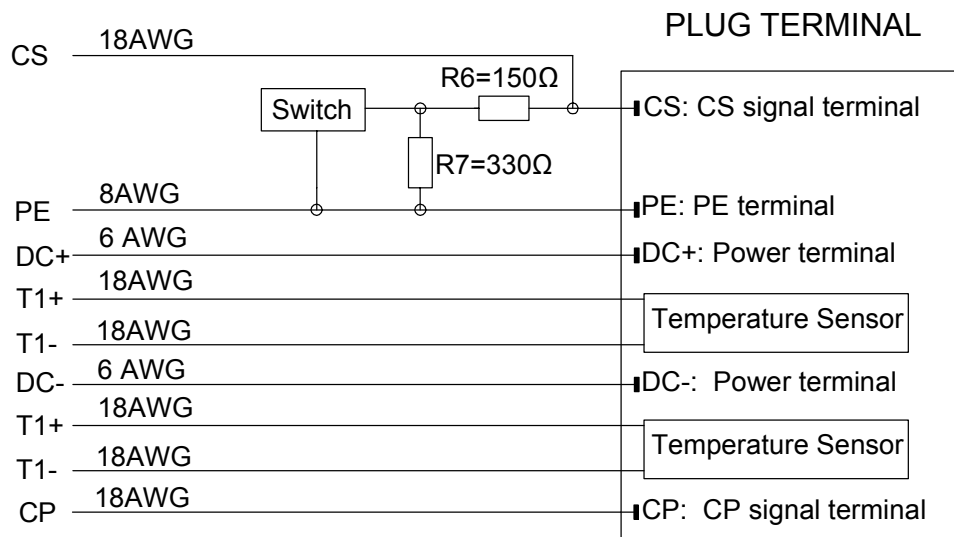
40A



65A



80A



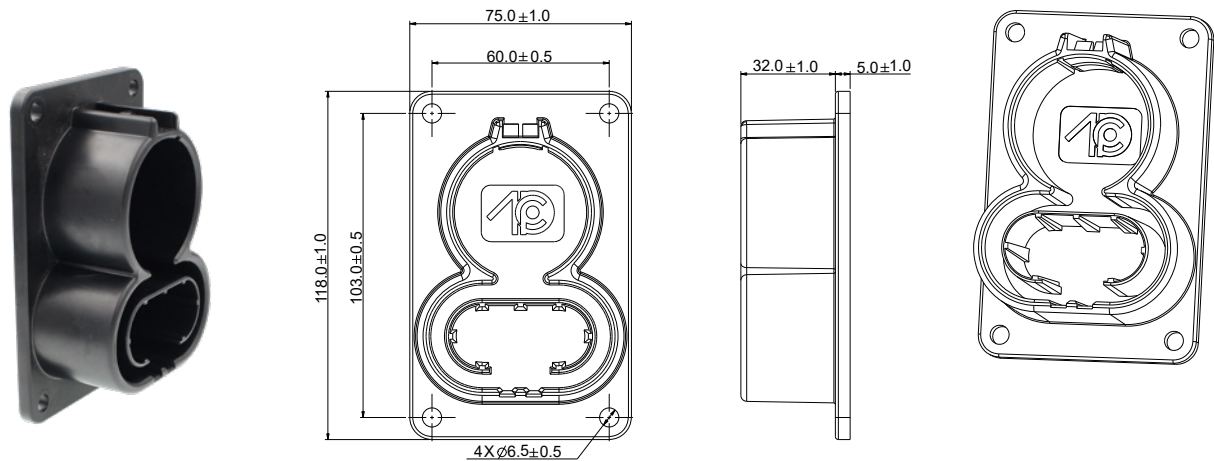
HOW TO ORDER | SAE COMBO WALL-MOUNTING

SAE Combo [Vehicle Connector](#)

	HVCO	SAE	M	D	40A	P	LXXXX	XXXX
SAE: SAE Combo								
Connector type: M: Vehicle Connector								
Connector version: D: Mini DC Combo Plug								
Rated current DC: 40A: 40A 65A: 65A 80A: 80A								
Temperature sensor: N: NTC (Unit in mm) P: PT1000 (Unit in mm) N/A: No sensor								
Cable length: LXXXX: Cable length (Unit in mm)								
Cable accessories: XXXX: Cable accessories or customer code								

HOLDER FOR PLUG

P/N: **C-P03BP00156**
(Connectors do not include, please order seperately)

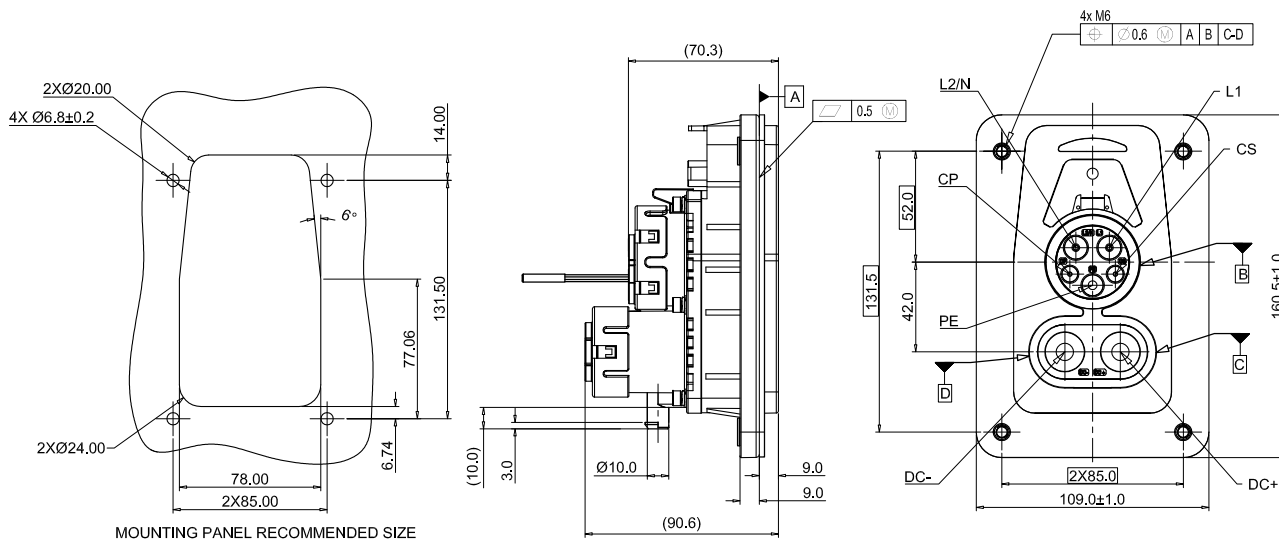


**KEY FEATURES:**

Compliant with:
 IEC 62196-1
 IEC 62196-2
 IEC 62196-3
 UL2251
 SAE J1772

MECHANICAL	
Mating cycles	> 10,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	300A Max
Rated voltage	1000V DC
Temperature sensor	PT1000 The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors
ENVIRONMENTAL	
Protection degree	IP44 (mated), IP55 (road position), IP67 (inner area of inlet)
Ambient temperature	-30°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

CCS1 VEHICLE INLET VERSION A | AC+DC DIMENSIONS



Rated voltage and current	Functions
240V 48A	L1
240V 48A	L2/N
-	PE (Protective Ground/Earth)
1000V 300A, 200A, 150A, 125A, 65A	DC+
1000V 300A, 200A, 150A, 125A, 65A	DC-
30V 2A	CP (Control pilot)
30V 2A	PP (Proximity)

CCS1 Vehicle inlet AC + DC

Socket-inlet



Part Number		
AC	DC	Part Number
240V / 48A	1000V / 200A	HVCOSF003
240V / 48A	1000V / 125A	HVCOSF005
240V / 48A	1000V / 65A	HVCOSF007
240V / 48A	1000V / 300A	HVCOSF009
240V / 48A	1000V / 150A	HVCOSF013

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:

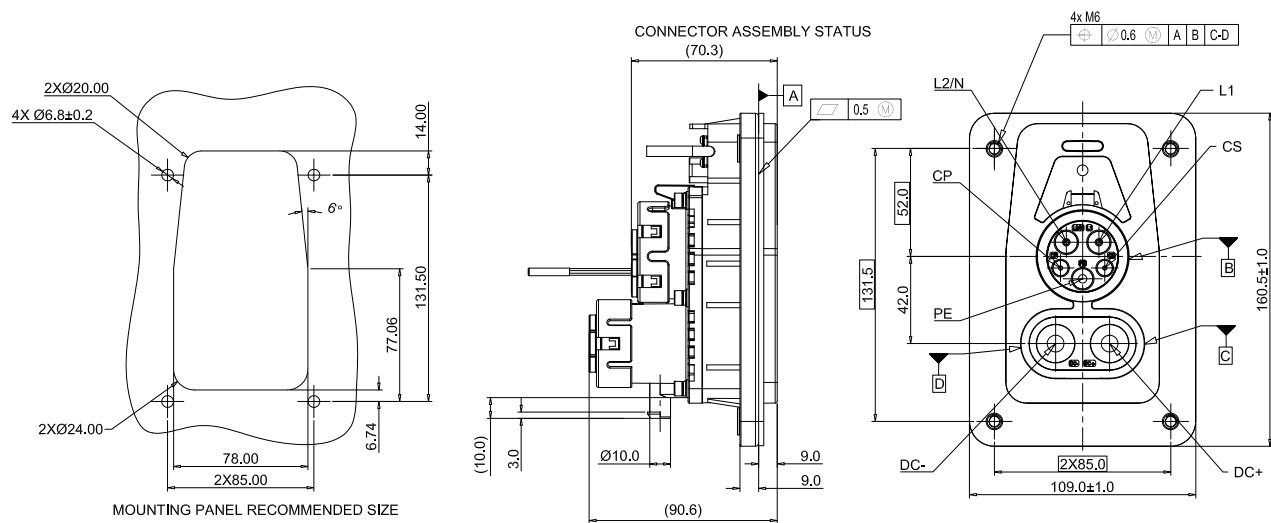
240V | 48A | 1-phase

1000V | 65A, 125A, 150A, 200A or 300A | 3-phase

Electric lock available

12 o'clock

CCS1 VEHICLE INLET VERSION A | AC+DC WITH LED DIMENSIONS



Rated voltage and current	Functions
240V 48A	L1
240V 48A	L2 /N
-	PE (Protective Ground/Earth)
1000V 300A, 200A, 150A, 125A, 65A	DC+
1000V 300A, 200A, 150A, 125A, 65A	DC-
30V 2A	CP (Control pilot)
30V 2A	PP (Proximity)

CCS1 Vehicle inlet AC + DC

Socket-inlet



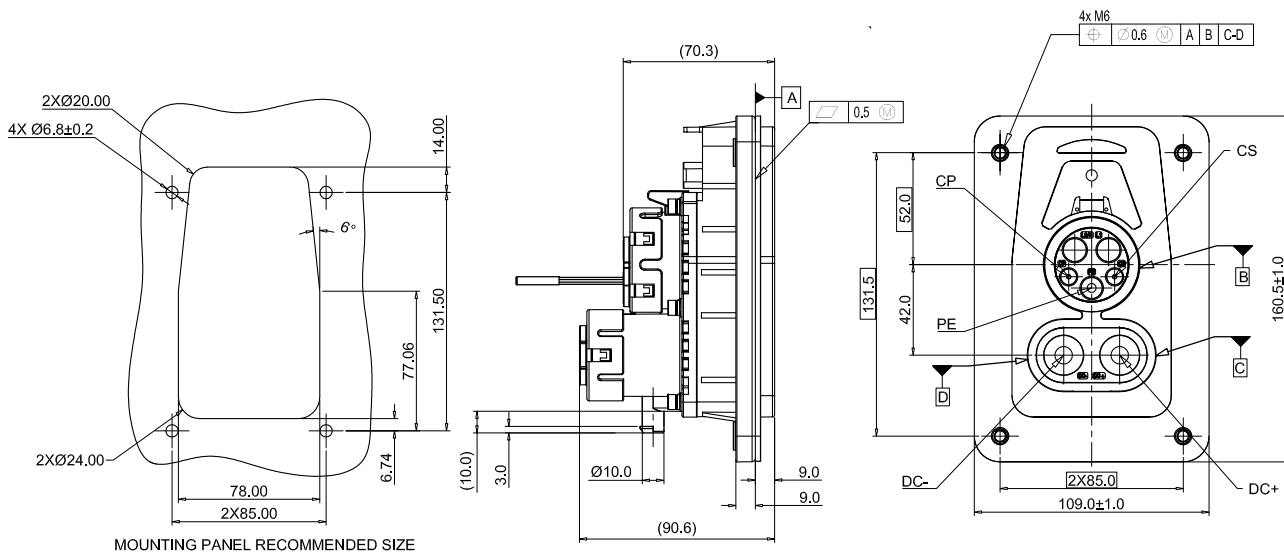
Part Number		
AC	DC	Part Number
240V / 48A	1000V / 200A	HVCOSF003D
240V / 48A	1000V / 125A	HVCOSF005D
240V / 48A	1000V / 65A	HVCOSF007D
240V / 48A	1000V / 300A	HVCOSF009D
240V / 48A	1000V / 150A	HVCOSF013D

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:
240V | 48A | 1-phase
1000V | 65A, 125A, 150A, 200A or 300A | 3-phase

Electric lock available
12 o'clock

CCS1 VEHICLE INLET VERSION A | DC DIMENSIONS



Rated voltage and current	Functions
-	PE (Protective Ground/Earth)
1000V 300A, 200A, 150A, 125A, 65A	DC+
1000V 300A, 200A, 150A, 125A, 65A	DC-
30V 2A	CP (Control pilot)
30V 2A	PP (Proximity)

CCS1 Vehicle inlet DC

Socket-inlet



Part Number	
DC	Part Number
1000V / 200A	HVCOSF004
1000V / 125A	HVCOSF006
1000V / 65A	HVCOSF008
1000V / 300A	HVCOSF010
1000V / 150A	HVCOSF014

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

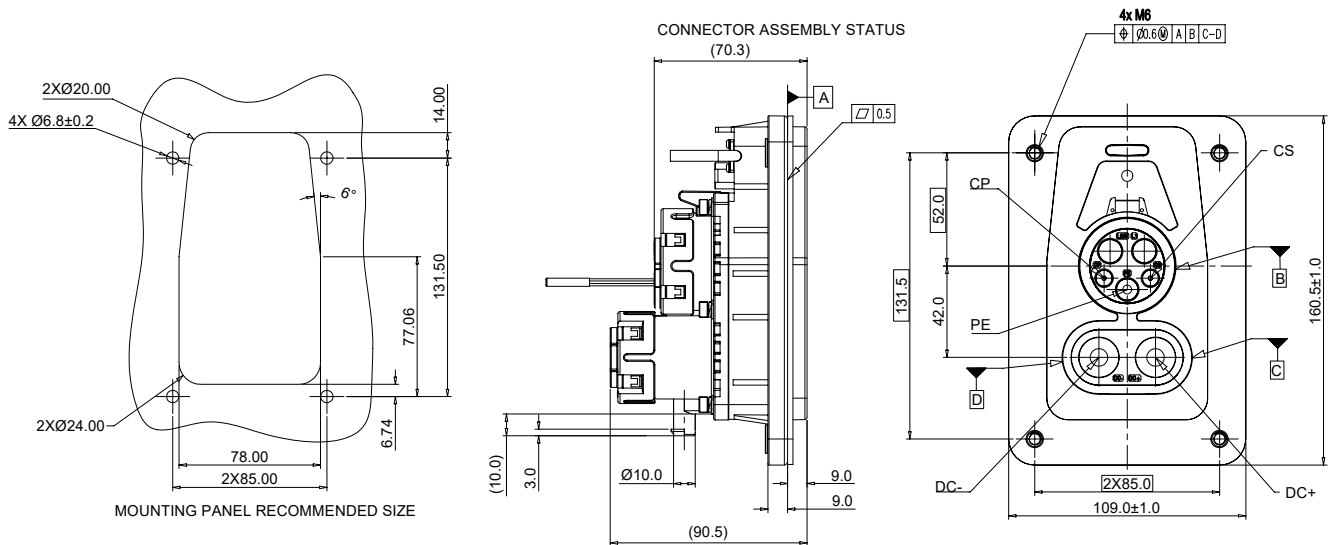
Configuration:

1000V | 65A, 125A, 150A, 200A or 300A | 3-phase

Electric lock available

12 o'clock

CCS1 VEHICLE INLET **VERSION A** | DC **WITH LED** DIMENSIONS



Rated voltage and current	Functions
-	PE (Protective Ground/Earth)
1000V 300A, 200A, 150A, 125A, 65A	DC+
1000V 300A, 200A, 150A, 125A, 65A	DC-
30V 2A	CP (Control pilot)
30V 2A	PP (Proximity)

CCS1 Vehicle inlet DC

Socket-inlet



Part Number	
DC	Part Number
1000V / 200A	HVCOSF004D
1000V / 125A	HVCOSF006D
1000V / 65A	HVCOSF008D
1000V / 300A	HVCOSF010D
1000V / 150A	HVCOSF014D

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:
1000V | 65A, 125A, 150A, 200A or 300A | 3-phase

Electric lock available
12 o'clock

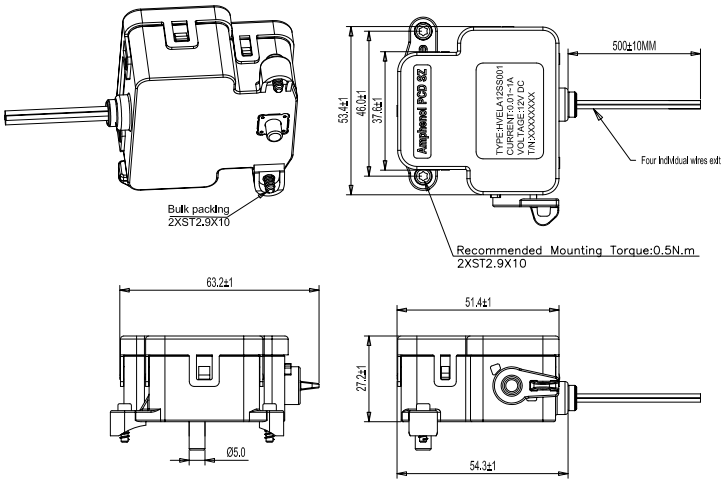
LOCKING ACTUATOR

Electric lock | AMPHENOL PCD SHENZHEN (12V, 24V)

4-wire solution is available for 12V and 24V



HVELA12SS001	12V
HVELA24SS001	24V



TYPE	RED	BLACK	WHITE	BLUE
UNLOCKING	+	-	SIGNAL($R_U=1K\Omega$)	
LOCKING	-	+	SIGNAL($R_L=11K\Omega$)	

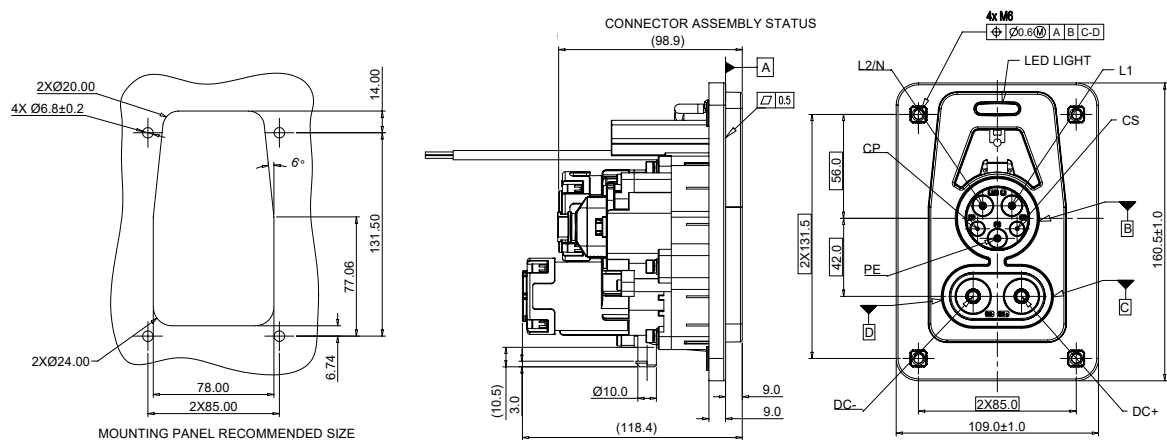


KEY FEATURES:

Compliant with:
IEC 62196-1
IEC 62196-2
IEC 62196-3
UL2251
SAE J1772

MECHANICAL	
Mating cycles	> 10,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	80A AC Max 300A to 500A DC (peak:800A)
Rated voltage	240V AC 1000V DC
Temperature sensor	PT1000 The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors
ENVIRONMENTAL	
Protection degree	IP55 (mated), IP55 (with cap), IP67 (enclosure)
Ambient temperature	-30°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

CCS1 VEHICLE INLET **VERSION B** | AC+DC DIMENSIONS



Rated voltage and current	Functions
240V 80A, 48A	L1
240V 80A, 48A	L2 /N
-	PE (Protective Ground/Earth)
1000V 500A, 400A, 300A	DC+
1000V 500A, 400A, 300A	DC-
30V 2A	CP (Control pilot)
30V 2A	PP (Proximity)

CCS1 Vehicle inlet AC + DC

Socket-inlet



Part Number		
AC	DC	Part Number
240V / 80A	1000V / 500A	HVCOSF040D
240V / 80A	1000V / 400A	HVCOSF041D
240V / 80A	1000V / 300A	HVCOSF042D
240V / 48A	1000V / 500A	HVCOSF046D
240V / 48A	1000V / 400A	HVCOSF047D
240V / 48A	1000V / 300A	HVCOSF048D

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:

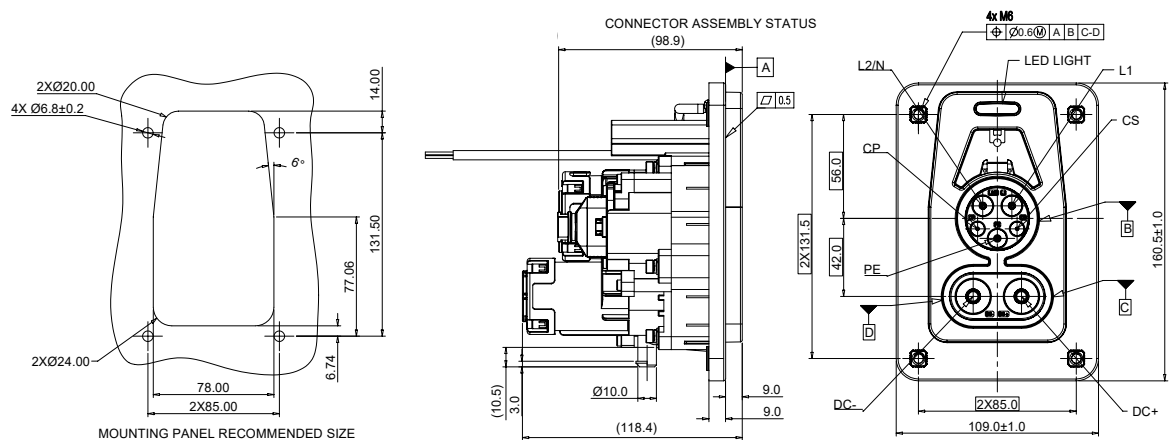
240V | 48A or 80A | 1-phase

1000V | 300A, 400A or 500A

Electric lock available

12 o'clock

CCS1 VEHICLE INLET VERSION B | DC WITH LED DIMENSIONS



Rated voltage and current	Functions
-	PE (Protective Ground/Earth)
1000V 500A, 400A, 300A	DC+
1000V 500A, 400A, 300A	DC-
30V 2A	CP (Control pilot)
30V 2A	PP (Proximity)

CCS1 Vehicle inlet DC

Socket-inlet



Part Number	
DC	Part Number
1000V / 500A	HVCOSF043D
1000V / 400A	HVCOSF044D
1000V / 300A	HVCOSF045D

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:
1000V | 300A, 400A or 500A

Electric lock available

12 o'clock

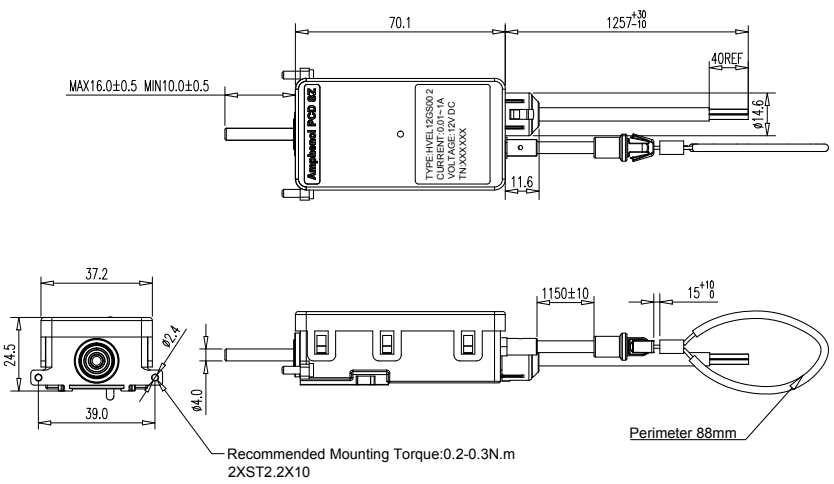
LOCKING ACTUATORS

Electric lock | AMPHENOL PCD SHENZHEN (12V)

4-wire solution is available for 12V



P/N (12V): **HVEL12GS002**



TYPE	RED	BLACK	WHITE	BLUE
UNLOCKING	-	+	SIGNAL($R_U=+\infty\Omega$)	
LOCKING	+	-	SIGNAL($R_L=0\Omega$)	

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CCS2 inlet  HVCOCF6ATR8SF	SIGNAL	Accessory		Compatible connectors						Harness			
		E-lock		NEVDCA12VELOCKL0500;NEVDCA24VELOCKL0500									
		LED											
		Signal		 ATM04-12PA									
	A	Wire Range	Compatible connectors						Harness				
	32A	2 x 6mm ²		HVSL362		EX402/EX492		HVSL630		HVG492			
		3 x 6mm ²		HVSL633		EX403		HVSL364					
		4 x 6mm ²		HVSL364									
		5 x 6mm ²		HVSL365		HVSL635B		HVSL366					
	63A	2 x 16mm ²		HVSL362		HVSL600		HVBIR6					
		3 x 16mm ²		HVSL364		HVSL600		HVBIR6					
		4 x 16mm ²		HVSL364									
		5 x 16mm ²	N/A										
	125A	2 x 50mm ²		HVSLP800		HVSL800/8003		HVBIR8		CHD10		HVPT	
	200A	2 x 70mm ²		HVSLP1000		HVPT/HVPTM		HVBIR10		CHD10		CHD14	
	300A	2 x 95mm ²		HVSL1200		HVSL1400		CHD14					

HVCOCF05XD  CCS2 inlet 500A  HVCOCF02XDN 	SIGNAL	Accessory		Compatible connectors						Harness	
		E-lock		NEVDCA12VELOCKL0500;NEVDCA24VELOCKL0500							
		LED									
		Signal		 P08B002343/4/5  ATM04-12PA							
	A	Wire Range	Compatible connectors						Harness		
	32A	2 x 6mm ²		HVSL362		EX402/EX492		HVSL630		HVG492	
		3 x 6mm ²		HVSL633		EX403		HVSL364			
		4 x 6mm ²		HVSL364							
		5 x 6mm ²		HVSL365		HVSL635B		HVSL366			
	63A	2 x 16mm ²		HVSL362		HVSL600		HVBIR6			
		3 x 16mm ²		HVSL364		HVSL600		HVBIR6			
		4 x 16mm ²		HVSL364							
		5 x 16mm ²	N/A								
	300A	2 x 95mm ²		HVSL1200		HVSL1400		CHD14		HVPTM	
	400A	2 x 120mm ²									
	500A	2 x 150mm ²		HVPTM				CHD14			

CCS2 GEN 3  HVCOCFXXXX 	SIGNAL	Accessory		Compatible connectors						Harness			
		E-lock		NEVDCA12VELOCKL0500;NEVDCA24VELOCKL0500									
		LED											
		Signal		 ATM04-12PA									
	A	Wire Range	Compatible connectors						Harness				
	32A	2 x 6mm ²		HVSL362		EX402/EX492		HVSL630		HVG492			
		3 x 6mm ²		HVSL633		EX403		HVSL364					
		4 x 6mm ²		HVSL364									
		5 x 6mm ²		HVSL365		HVSL635B		HVSL366					
	63A	2 x 16mm ²		HVSL362		HVSL600		HVBIR6					
		3 x 16mm ²		HVSL364		HVSL600		HVBIR6					
		4 x 16mm ²		HVSL364									
		5 x 16mm ²	N/A										
	150A	2 x 35mm ²		HVSLP800		HVSL800/8003		HVBIR8		CHD10		HVPT	
	200A	2 x 50mm ²		HVSLP1000		HVPT/HVPTM		HVBIR10		CHD10		CHD14	
	250A	2 x 70mm ²		HVSLP1000									
	300A	2 x 95mm ²		HVSL1200		HVSL1400		CHD14					

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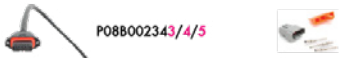
SIGNAL	Accessory		Compatible connectors				Harness
	LED		N/A				
	E-lock		 NEVDCA12VELOCKL0500  ATM04-6P				
	Signal						
AC	A	Wire Range	Compatible connectors				Harness
	32A	2 x 6mm ²	 HVSL362	 EX402/EX492	 HVSL630	 HVG492	 (2 to 5)
		3 x 6mm ²	 HVSL633	 EX403	 HVSL364		
		4 x 6mm ²	 HVSL364				
		5 x 6mm ²	 HVSL365	 HVSL365B	 HVSL366		
	16A 20A	2 x 2.5mm ²	 HVSL282	 EX402			
		3 x 2.5mm ²	 HVSL280	 EX403	 HVSL633		
		4 x 2.5mm ²	 HVSL364	 HVG404			
		5 x 2.5mm ²	 HVSL365	 HVSL365B	 HVSL366		

CCS1 inlet



HVCOSFXXXD

SIGNAL	Accessory		Compatible connectors		Harness	
	E-lock	 HVELA12SS001	HVELA24SS001			
	LED	 ATM04-12PA				
	Signal					
AC	A	Wire Range	Compatible connectors		Harness	
	48A	2 x 10mm ²	 HVSL362  HEVO60  EX492	(2 to 3)		
		3 x 10mm ²	 HVSL364			
	DC	125A	2 x 50mm ²	 HVSLP800  HVSL5800/8003  HVPT		(2)
		200A	2 x 70mm ²	 HVSLP1000  HVSL1000  HVPT/HVPTM  HVPT  HVPT		
300A		2 x 95mm ²	 HVSL1200  HVSL1400  CHD14			

HVCSOF09XXD  CCS1 inlet 500A  HVCSOF04XXD  SIGNAL AC DC	Accessory		Compatible connectors				Harness
	E-lock		HVEL12GS002 HVEL24GS002				
	LED		P08B002343/4/5 ATM04-12PA				
	Signal						
A	Wire Range	Compatible connectors				Harness	
48A	2 x 10mm ²	HVSL362 HEV060 EX492				(2 to 3)	
	3 x 10mm ²	HVSL364					
80A	2 x 25mm ²	HVSLP800 HVSL800/8003 HVSL5600 HVBIR6					
	3 x 25mm ²	HVSL800 HVSL5600 HVBIR6					
300A	2 x 95mm ²	HVSL1200 HVSL1400 CHD14 HVPTM				(2)	
400A	2 x 120mm ²	CHD14 HVPTM					
500A	2 x 150mm ²	CHD14					

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CCS1 Inlet
Cable Exit Left



HVCOSF07XXL
HVCOSF07XXDL

Accessory		Compatible connectors				Harness	
E-lock		 HVELA12SS001	 HVELA24SS001				
LED (optional)							
Signal		 P08B002343/4/5	 ATM04-12PA				
A	Wire Range	Compatible connectors				Harness	
32A	2 x 6mm ²	 HVSL362	 EX402/EX492	 HVSL630	 (2 to 3)		
	3 x 6mm ²	 HVSL633	 EX403	 HVSL364			
48A	2 x 10mm ²	 HVSL362	 EX492				
	3 x 10mm ²	 HVSL364					
63A	2 x 16mm ²	 HVSL362	 HVSL5600				
	3 x 16mm ²	 HVSL364	 HVSL5600				
80A	2 x 25mm ²	 HVSLP800	 HVSL5600			 HVSL5800	 HVBIR6
	3 x 25mm ²	 HVSL800	 HVSL5600			 HVBIR6	
125A	2 x 50mm ²	 HVSLP800	 HVSL800/8003	 HVBI8	 HVPT	 (2)	
200A	2 x 70mm ²	 HVSLP1000	 HVSL1200	 HVBI10	 CHD14		
300A	2 x 95mm ²	 HVSL1200	 HVSL1400	 CHD14			

SIGNAL

Accessory		Compatible connectors		Harness
E-lock		HVEL12GS002S2		
Signal		P08B002343/4/5	ATM04-12PA	
A	Wire Range	Compatible connectors		Harness
16A	2 x 2.5mm ²	HVSL282	EX402	(2 to 3)
	3 x 2.5mm ²	HVSL280	EX403	
32A	2 x 6mm ²	HVSL362	EX402/EX492	
	3 x 6mm ²	HVSL633	EX403	
48A	2 x 10mm ²	HVSL362	EX492	
	3 x 10mm ²	HVSL364		
63A	2 x 16mm ²	HVSL362	HVSL5600	
	3 x 16mm ²	HVSL364	HVSL5600	
80A	2 x 25mm ²	HVSLP800	HVSL5600	
	3 x 25mm ²	HVSL800	HVSL5600	

SAE AC inlet



/COSF05XX
/COSF05XXC

AC

CABLE HARNESS



HVCONF0100S1



NACS Inlet



HVCONF01XX (D)

Accessory		Compatible connectors				Harness
E-lock		 HVEL12NS001				
Signal		 P08B002347 5POS				
A	Wire Range	Compatible connectors				Harness
200A	2 x 50mm ²	HVSLP800	HVSL800/8003	HVBIR8 CHD10	HVPT	
250A	2 x 70mm ²	HVSLP1000 HVSL1000	HVPT/HVPTM	HVBIR10 CHD10	CHD14	
350A	2 x 95mm ²	HVSL1200	HVSL1400	CHD14		

SIGNAL

Accessory		Compatible connectors		Harness
E-lock		N/A		
Signal			P08B002343/4/5  ATM04-12PA	
A	Wire Range	Compatible connectors		Harness
200A	2 x 70mm ²	 CHD14/CHD10	 HVSLP1000 HVSL1000  HVBIR10  HVPT/HVPTM	(2) 
300A	2 x 95mm ²	 CHD14	 HVPTM  HVSL1400  HVSL1200	
400A	2 x 120mm ²	 CHD14	 HVPTM  HVSL1400	
500A	2 x 150mm ²	 CHD14	 HVPTM	

GB/T inlet DC



HVCOGF01XX

SIGNAL

Accessory		Compatible connectors		Harness
LED		N/A		
E-lock			NEVDCA12VELOCKL0500HS1	
Signal			ATM04-6P	
A	P/N	Compatible Part Numbers and Terminals		Harness
32A Gen 2	HVCOSFS Shutter	3-Phase	HVCOSFS706	
		1-Phase	HVCOSFS506	
	HVCOIFS	3-Phase	HVCOIFS706	
		1-Phase	HVCOIFS506	
32A Gen 3 Flange lowered	HVCOSLFS Shutter	3-Phase	HVCOSLFS706	
		1-Phase	HVCOSLFS506	
	HVCOILFS	3-Phase	HVCOILFS706	
		1-Phase	HVCOILFS706	

Socket-outlet Type 2



AC

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Notes:

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