



AMPHENOL PCD SHENZHEN



EXCEL | MATE CC (Charging Coupler)

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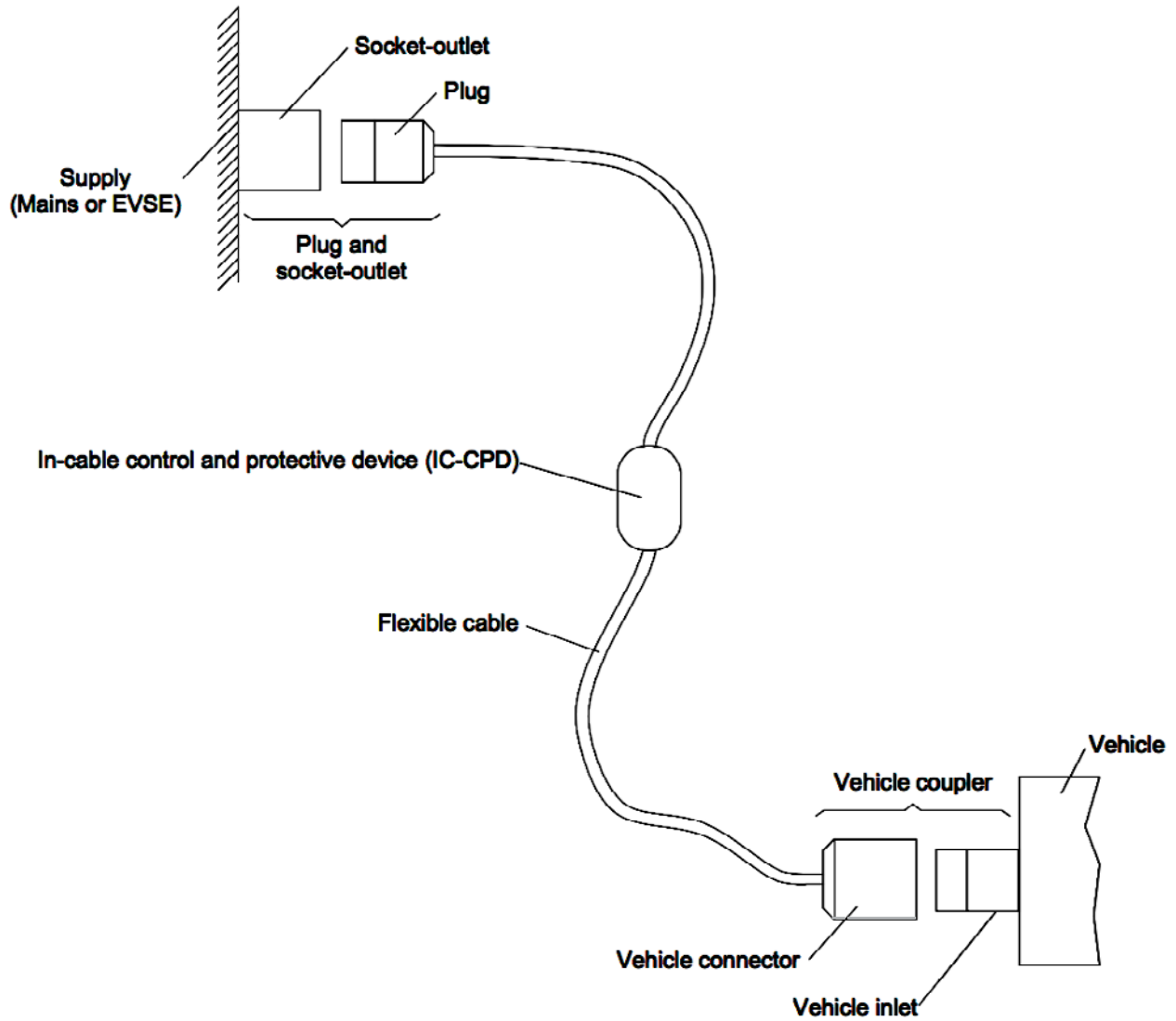
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IEC STANDARD 62196-2



STANDARD SHEET	
Socket-outlet	Standard sheet 2-IIa
Plug	Standard sheet 2-IIb
Vehicle connector	Standard sheet 2-IIe
Vehicle inlet	Standard sheet 2-IIf

IEC STANDARD 62196-2

EXCELMATE CC IEC TYPE 2 - TECHNICAL CHARACTERISTICS



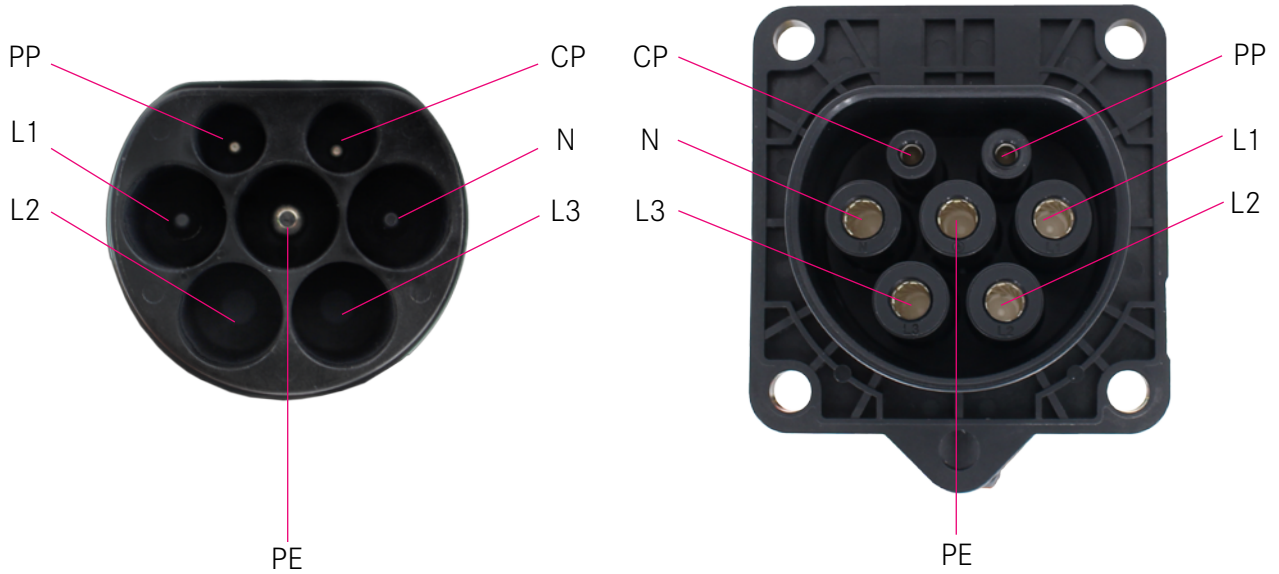
KEY FEATURES:

Compliant with:
IEC 62196-2
IEC 61851-1

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

MECHANICAL	
Mating cycles	> 10,000 cycles (unloaded)
Connector (in mated condition) retention force:	
ELECTRICAL	
Rated current	See page 7
Rated voltage	See page 7
ENVIRONMENTAL	
Protection degree	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

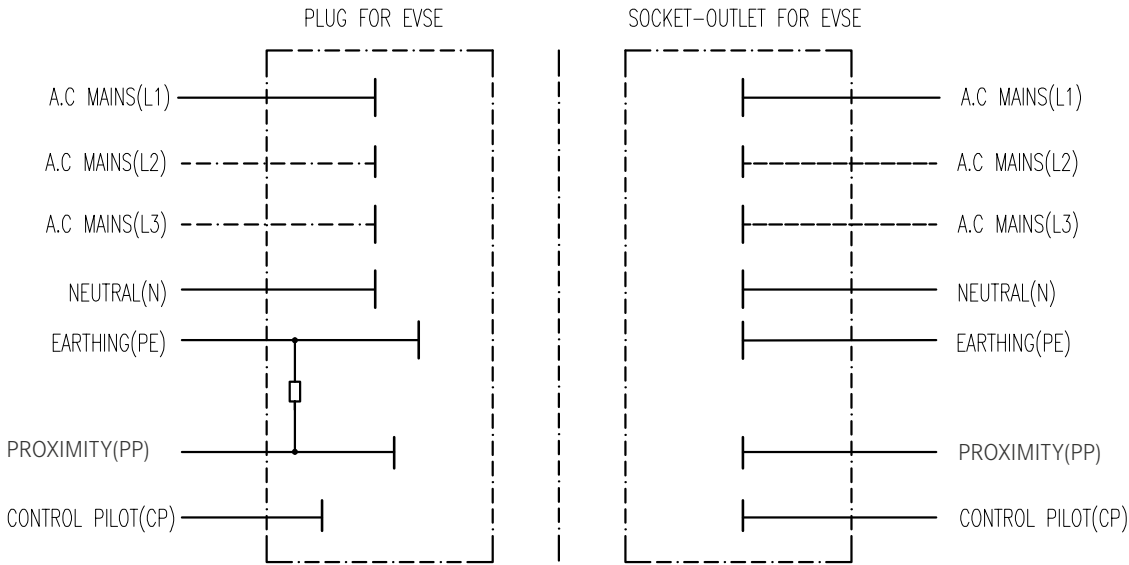
INSERT ARRANGEMENTS



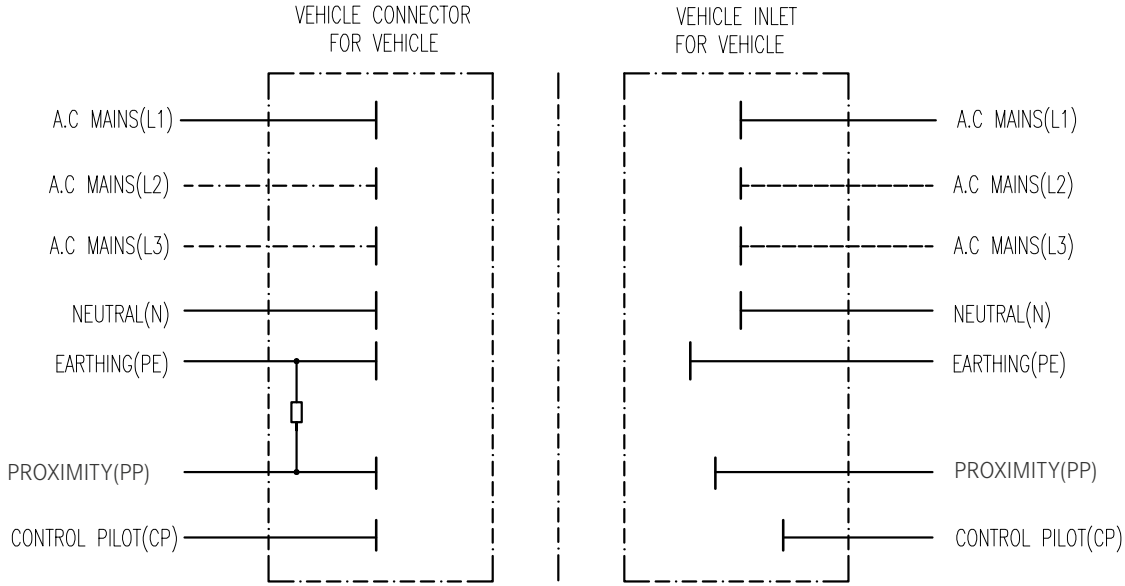
CONFIGURATION

A.C. Type 2		Functions
1-Phase	3-Phase	
250V (16A), 20A, 32A	480V 16A, 20A, 32A	L1 (Mains 1)
-	480V 16A, 20A, 32A	L2 (Mains 2)
-	480V 16A, 20A, 32A	L3 (Mains 3)
250V (16A), 20A, 32A	480V 16A, 20A, 32A	N (Neutral)
Rated for fault		PE (Protective Ground/Earth)
30V 2A		CP (Control pilot)
30V 2A		PP (Proximity)

Circuit diagram for EVSE charging coupler



Circuit diagram for vehicle coupler



AC TYPE 2 COUPLER FOR EVSE SIDE

LXXXX: Cable length (unit in mm)

Socket-outlet



Part Number			
Type 2 / Mode 3	16/20A	1-Phase	HVCOIFSR6SS502LXXXX
	16/20A	3-Phase	HVCOIFSR6SS702LXXXX
	32A	1-Phase	HVCOIFSR6SF506LXXXX
	32A	3-Phase	HVCOIFSR6SF706LXXXX

Compliant with IEC 62196-2 standard 2-II a.

Electronic lock and Solenoid lock both available

Configuration:

250V | (16A), 20A or 32A | 1-phase
480V | (16A), 20A or 32A | 3-phase

3 positions (120° rotatable):

4 o'clock, 8 o'clock, 12 o'clock

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

Plug



Part Number			
Type 2 / Mode 3	16/20A	1-Phase	HVCOIMBSR6PS502LXXXX
	16/20A	3-Phase	HVCOIMBSR6PS702LXXXX
	32A	1-Phase	HVCOIMBSR6PF506LXXXX
	32A	3-Phase	HVCOIMBSR6PF706LXXXX

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

Configuration:

250V | 16A/20A or 32A | 1-phase
480V | 16A/20A or 32A | 3-phase

AC TYPE 2 COUPLER FOR EV SIDE

Socket-inlet



Part Number			
Type 2 / Mode 3	32A	3-Phase	HVCOIFR6SF706NTLXXXX
	32A	1-Phase	HVCOIFR6SF506NTLXXXX
	16/20A	3-Phase	HVCOIFR6SS702NTLXXXX
	16/20A	1-Phase	HVCOIFR6SS502NTLXXXX

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

Configuration:

250V | 32A | 1-phase
480V | 32A | 3-phase
250V | 16A/20A | 1-phase
480V | 16A/20A | 3-phase

Vehicle connector



Part Number (without cable)			
Type 2 / Mode 3	16/20A	1-Phase	HVCOIMBR6PS502LXXXX
	16/20A	3-Phase	HVCOIMBR6PS702LXXXX
	32A	1-Phase	HVCOIMBR6PF506LXXXX
	32A	3-Phase	HVCOIMBR6PF706LXXXX

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

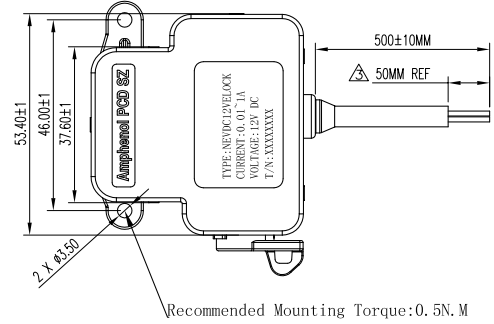
Configuration:

250V | 16A/20A or 32A | 1-phase
480V | 16A/20A or 32A | 3-phase

LOCKING ACTUATOR

Electronic lock | AMPHENOL PCD SHENZHEN (12V)


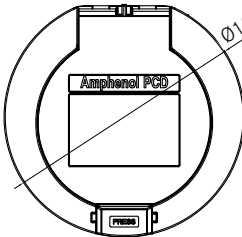
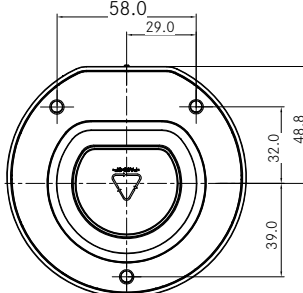
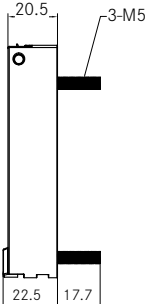

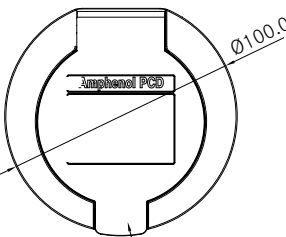
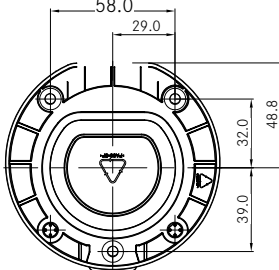
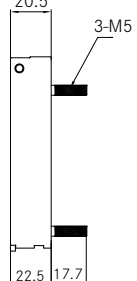
4 wire solution is available.



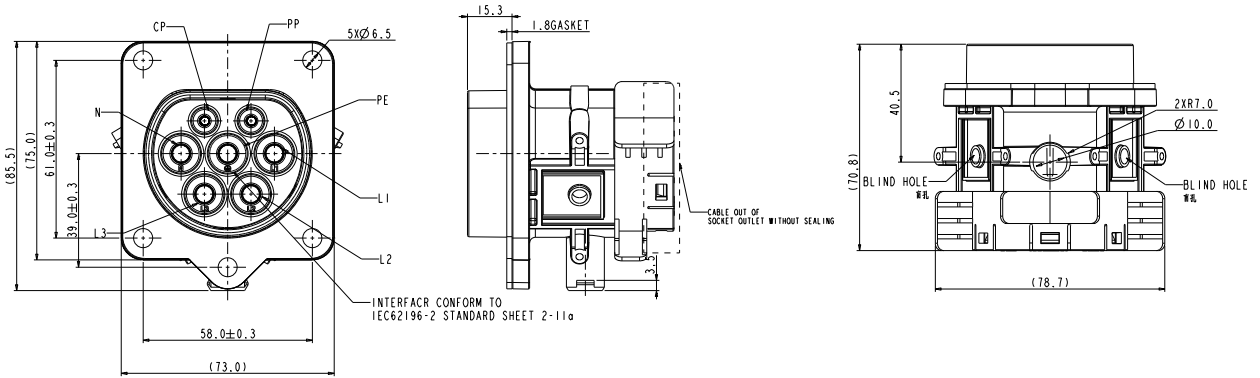
P/N (12V): NEVDC12VELOCK

TYPE	RED	BLACK	WHITE	BLUE
UNLOCKING	+	-	SIGNAL (R _U =1kΩ)	
LOCKING	-	+	SIGNAL (R _L =11kΩ)	

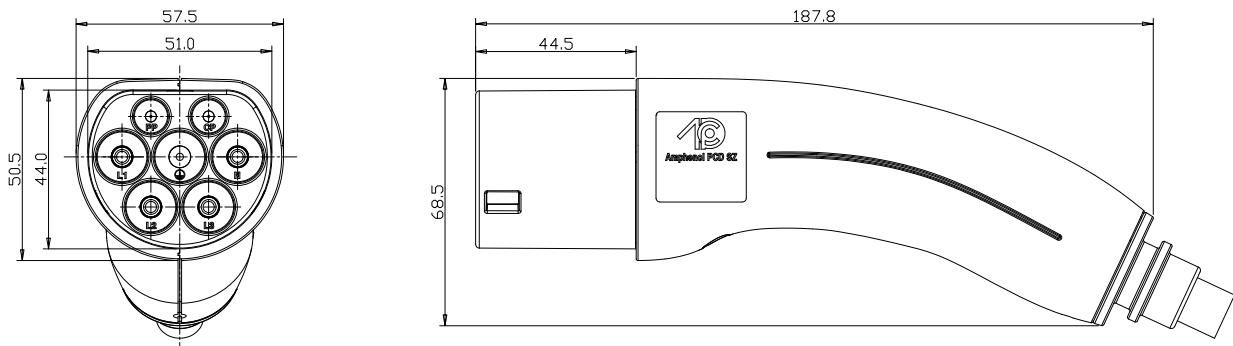
PROTECTION CAP WITH HINGED LID

P/N		DRAWING		
HVCOILIDA	 Push			
HVCOILIDC	 Pull	 Self-closing type		

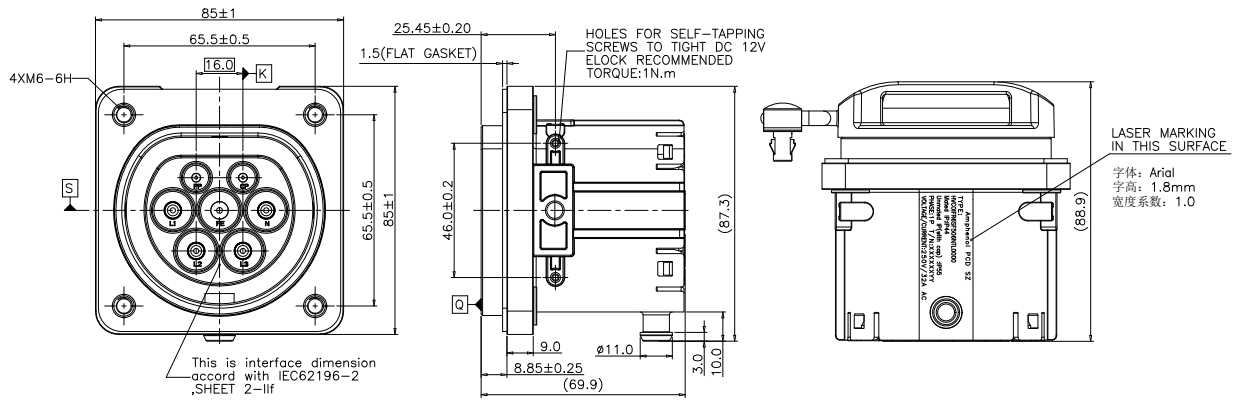
SOCKET-OUTLET DIMENSIONS (EVSE)



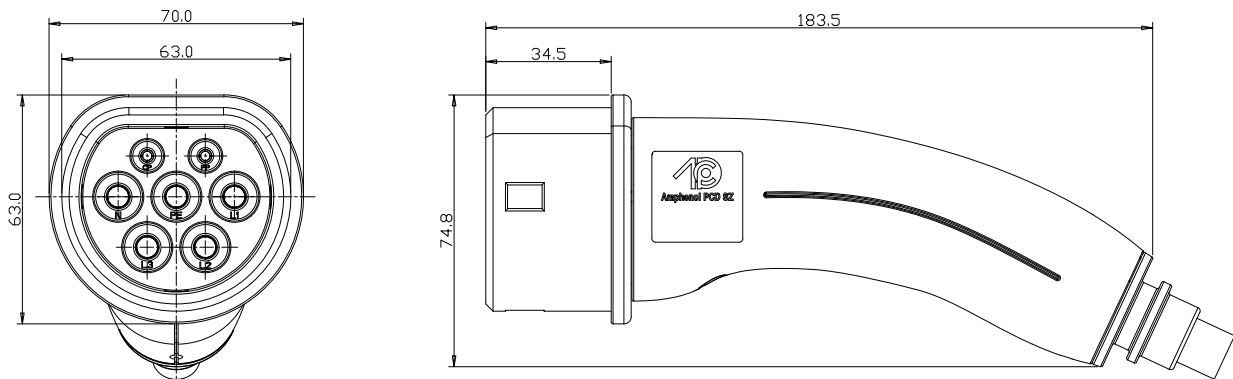
PLUG DIMENSIONS (EVSE)



SOCKET-INLET DIMENSIONS



VEHICLE CONNECTOR DIMENSIONS

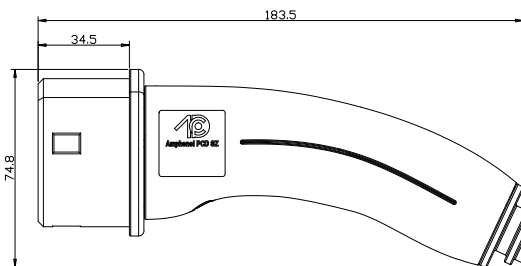
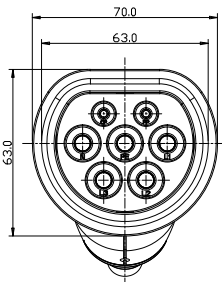
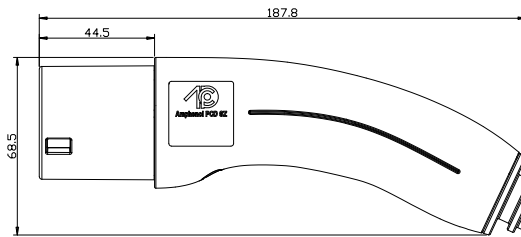
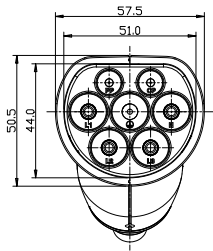


PLUG (EVSE) + VEHICLE CONNECTOR (EV) DIMENSIONS - MODE 3



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

LXXXX: Cable length (unit in mm)



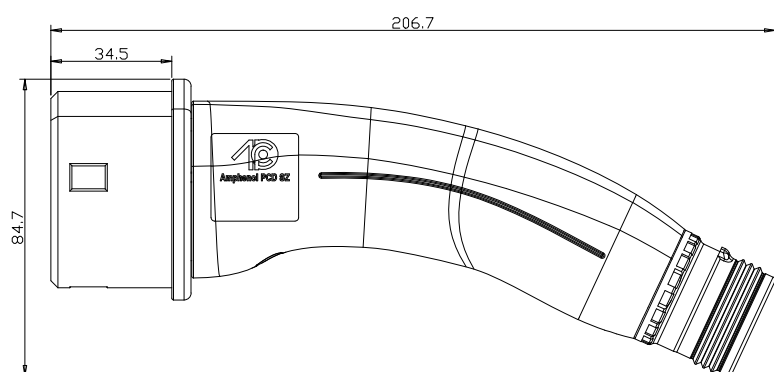
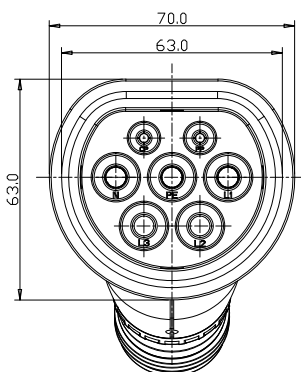
VEHICLE CONNECTOR'S CAP (OPTIONAL)



Part Number: P01BP00382

VEHICLE CONNECTOR (WITH CAC ADAPTER) DIMENSIONS

Part Number:
HVCOIMBSR6PF706CAC



EXCELIMATE CC IEC COMBO - TECHNICAL CHARACTERISTICS



KEY FEATURES:

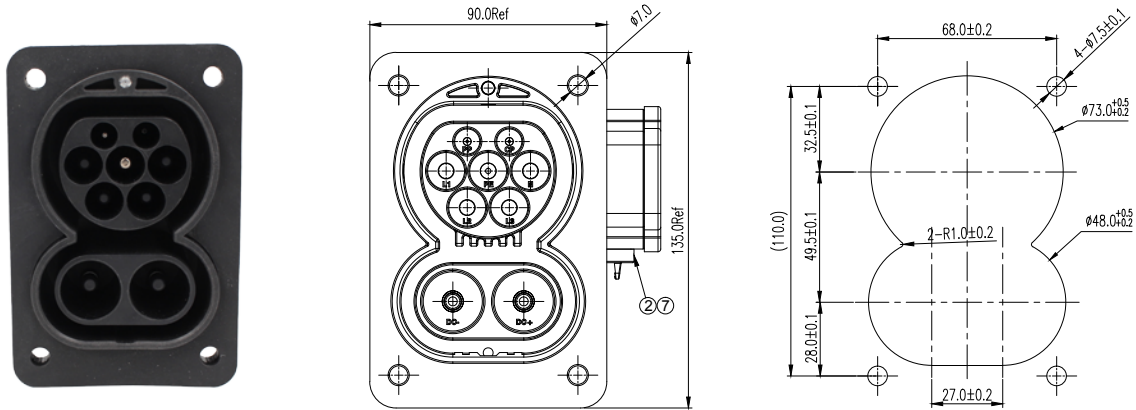
Compliant with:
IEC 62196-2
IEC 62196-3

Vehicle connector:
EN17186, CE

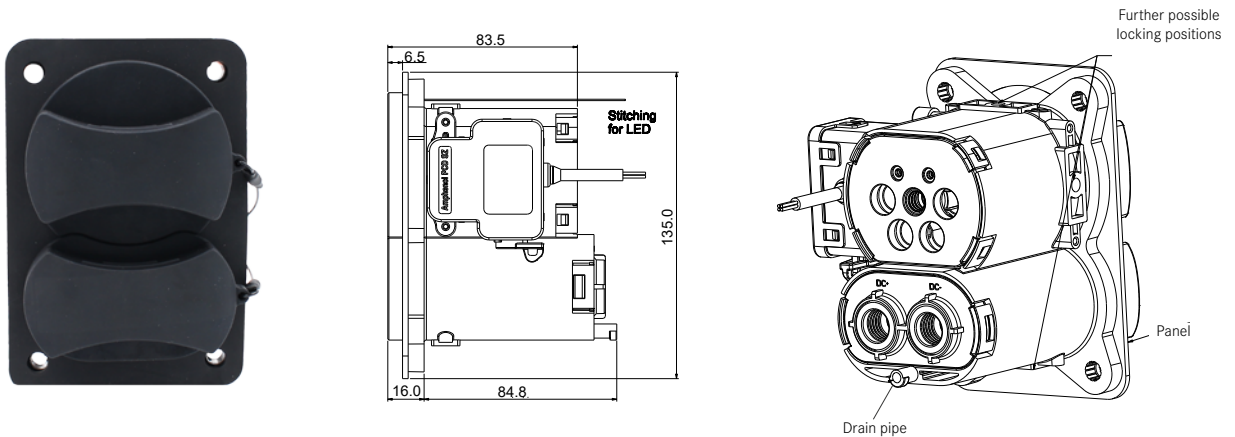
MECHANICAL	
Mating cycles	> 10,000 cycles (unloaded)
Insertion / withdrawal force	< 100N
ELECTRICAL	
Rated current	See page 15 and 17
Rated voltage	See page 15 and 17
Temperature sensor (Optional)	The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors
ENVIRONMENTAL	
Protection degree	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

IEC COMBO VEHICLE INLET DIMENSIONS (VERSION A)

Rear mount without protection cap



Rear mount with protection cap

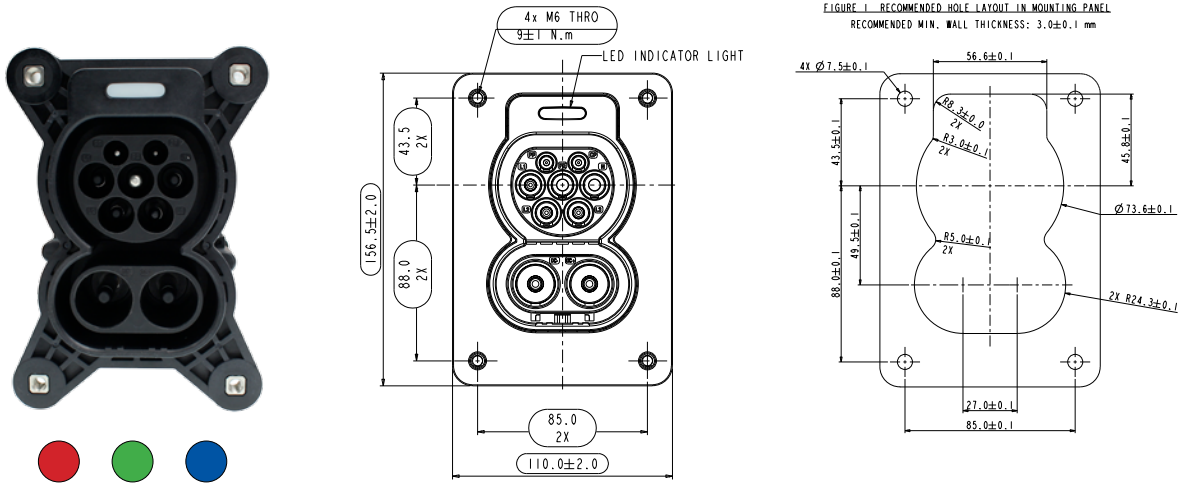


IEC COMBO ELECTRICAL SPECIFICATIONS

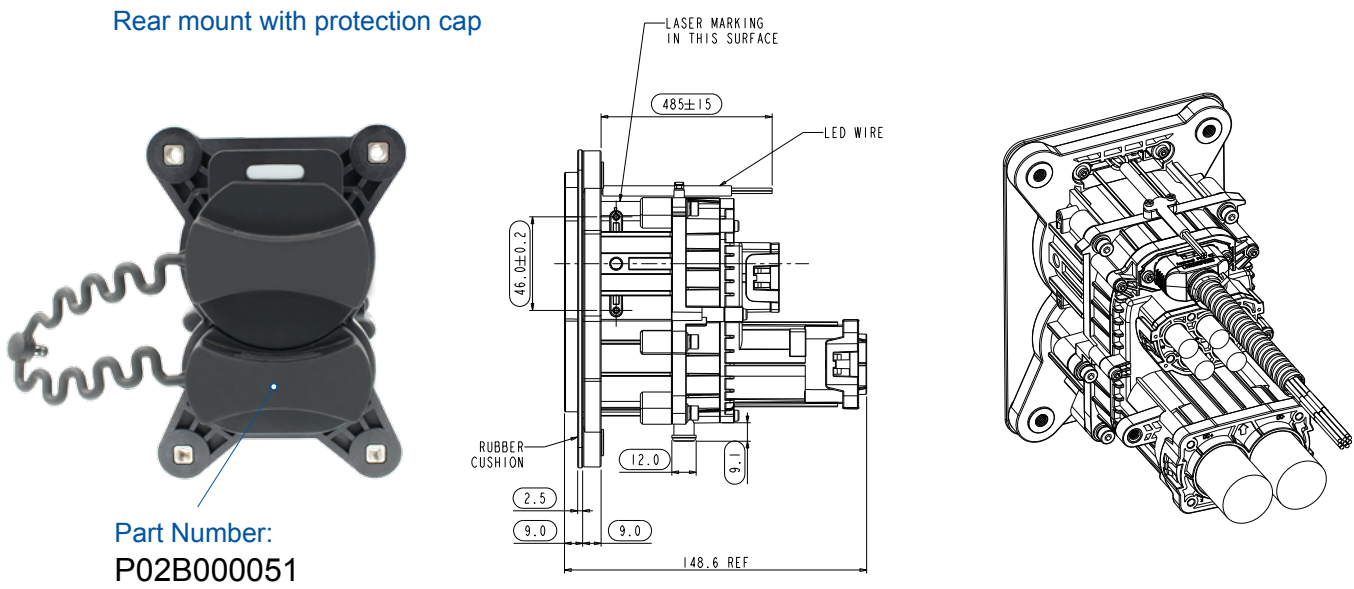
Combined interface		Functions
1-phase	3-phase	
250V 32A	480V 32A	L1 (Mains 1) - Optional
-	480V 32A	L2 (Mains 2) - Optional
-	480V 32A	L3 (Mains 3) - Optional
250V 32A	480V 32A	N (Neutral) - Optional
Rated for fault		PE (Protective Ground/Earth)
30V 2A		CP (Control pilot)
30V 2A		PP (Proximity)
1000V 65A, 125A, 200A, 500A		DC+ (High power d.c.)
1000V 65A, 125A, 200A, 500A		DC- (High power d.c.)

IEC COMBO VEHICLE INLET WITH LED DIMENSIONS (VERSION B)

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

PART NUMBER | IEC COMBO VEHICLE INLETS

VERSION A

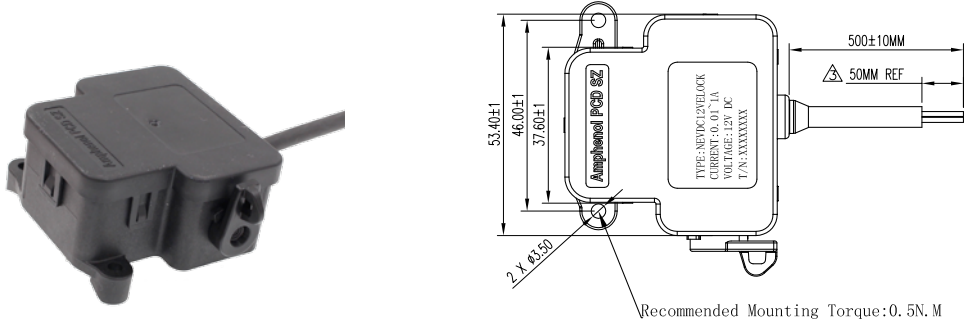
P/N	Rated current (AC)	Rated current (DC)	Phase	AC cable size	DC cable size	Temperature sensor (DC) Recommended
HVCOCF6ATR8SF916	32A	65A	3	6mm ²	16mm ²	NTC
HVCOCF6ATR8SF950	32A	125A	3	6mm ²	50mm ²	NTC
HVCOCF6ATR8SF970	32A	200A	3	6mm ²	70mm ²	PT1000
HVCOCF6ATR8SF716	32A	65A	1	6mm ²	16mm ²	NTC
HVCOCF6ATR8SF750	32A	125A	1	6mm ²	50mm ²	NTC
HVCOCF6ATR8SF970	32A	200A	3	6mm ²	70mm ²	PT1000
HVCOCF16BPTR8SF795	63A	1000V	1	16mm ²	95mm ²	PT1000
HVCOCF16ATR8SF970	63A	1000V	3	16mm ²	70mm ²	PT1000
HVCOCF16BPTR8SF995	63A	1000V	3	16mm ²	95mm ²	PT1000
HVCOCFATR8SF516	-	65A	-	-	16mm ²	NTC
HVCOCFATR8SF550	-	125A	-	-	50mm ²	NTC
HVCOCFATR8SF570	-	200A	-	-	70mm ²	PT1000

VERSION B

P/N	Rated current (AC)	Rated current (DC)	Phase	AC cable size	DC cable size	Temperature sensor (DC) Recommended
HVCOCF0210D	32A	500A	3	6mm ²	150mm ²	PT1000
HVCOCF0212D	63A	500A	3	16mm ²	150mm ²	PT1000
HVCOCF0213D	32A	400A	3	6mm ²	120mm ²	PT1000
HVCOCF0215D	63A	400A	3	16mm ²	120mm ²	PT1000
HVCOCF0216D	32A	300A	3	6mm ²	95mm ²	PT1000
HVCOCF0218D	63A	300A	3	16mm ²	95mm ²	PT1000
HVCOCF0219D	32A	200A	3	6mm ²	70mm ²	PT1000
HVCOCF0221D	63A	200A	3	16mm ²	70mm ²	PT1000
HVCOCF0222D	32A	500A	1	6mm ²	150mm ²	PT1000
HVCOCF0224D	63A	500A	1	16mm ²	150mm ²	PT1000
HVCOCF0225D	32A	400A	1	6mm ²	120mm ²	PT1000
HVCOCF0227D	63A	400A	1	16mm ²	120mm ²	PT1000
HVCOCF0228D	32A	300A	1	6mm ²	95mm ²	PT1000
HVCOCF0230D	63A	300A	1	16mm ²	95mm ²	PT1000
HVCOCF0231D	32A	200A	1	6mm ²	70mm ²	PT1000
HVCOCF0233D	63A	200A	1	16mm ²	70mm ²	PT1000
HVCOCF0234D	-	500A	-	-	150mm ²	PT1000
HVCOCF0235D	-	400A	-	-	120mm ²	PT1000
HVCOCF0236D	-	300A	-	-	95mm ²	PT1000
HVCOCF0237D	-	200A	-	-	70mm ²	PT1000

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

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



P/N (12V): NEVDC12VELOCK

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

P/N (24V): NEVDC24VELOCK

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	Temperature sensor	
HVCOCMTR8PF516	65A	16mm ²	PT1000	} Version A: Potted version
HVCOCMTR8PF550	125A	50mm ²	PT1000	
HVCOCMTR8PF570	200A	70mm ²	PT1000	
HVCOCM ^B TR8PF550	200A	50mm ²	PT1000	} Version B: Version with removable contacts
HVCOCM ^B TR8PF570	250A	70mm ²	PT1000	
HVCOCM ^B TR8PF595	300A	2 x 50mm ²	PT1000	

IEC COMBO VEHICLE CONNECTOR - 40A, 80A



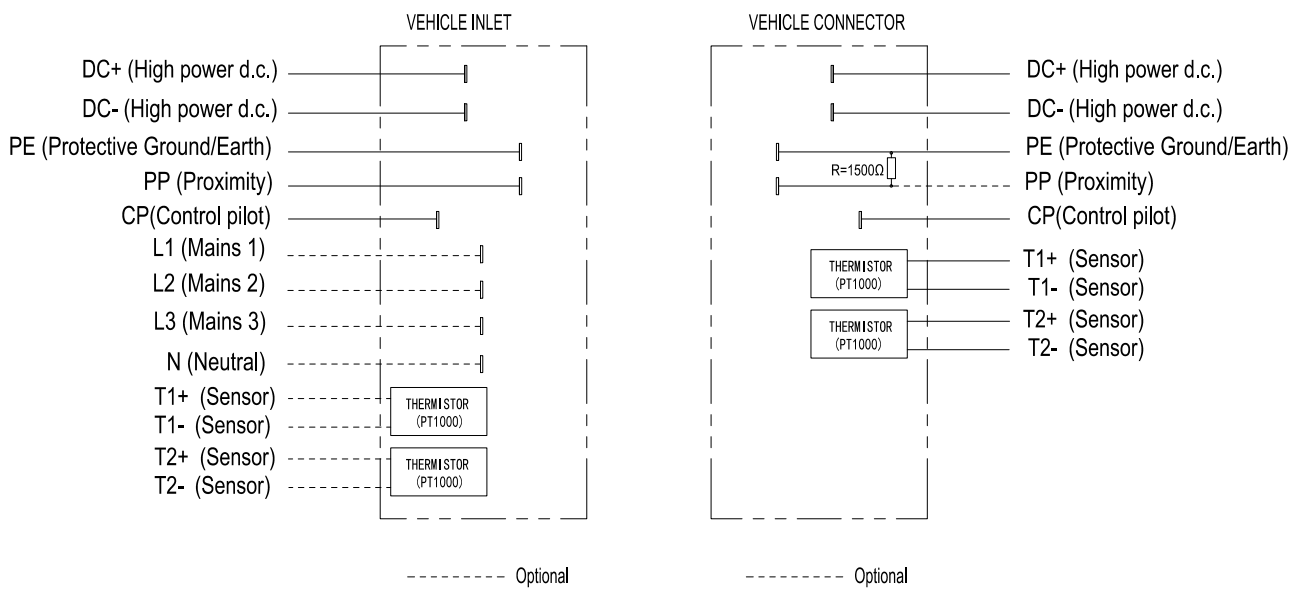
Mating cycles:	> 10,000 cycles (unloaded)
Insertion / withdrawal force:	< 100N
Rated current:	80A@16mm ² 40A@6mm ²
Rated voltage:	1000V (DC)
Standards:	IEC62196.1, IEC62196.3
Temperature sensor:	PT1000
Waterproof:	IP55 (mated)
Ambient temperature:	-30 to 50°C
ROHS:	Yes

P/N	Rated current
HVCOCM ^C TR8PF506LXXXX	40A
HVCOCM ^C TR8PF516LXXXX	80A

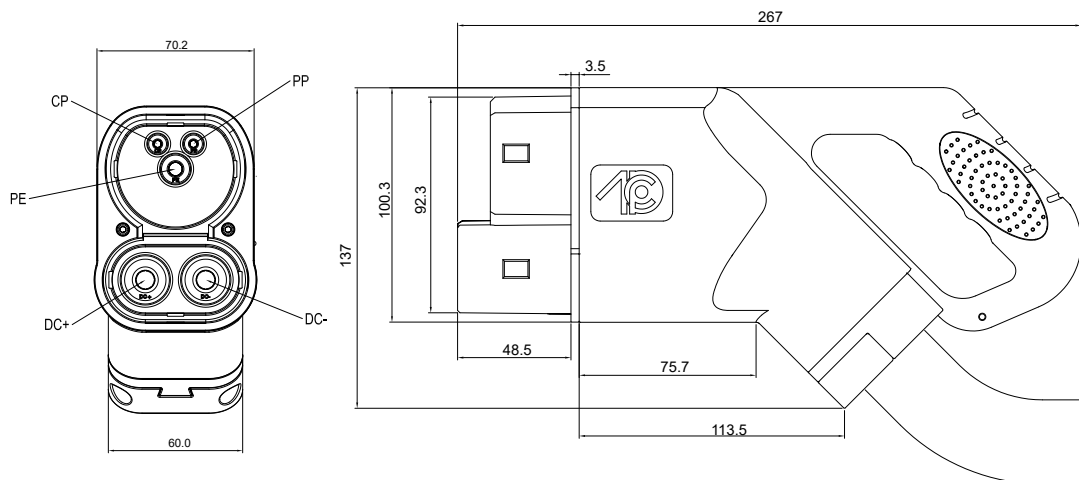
IEC COMBO ELECTRICAL SPECIFICATIONS

Combined interface	Functions
Rated for fault	PE (Protective Ground/Earth)
30V 2A	CP (Control pilot)
30V 2A	PP (Proximity)
1000V 65A, 125A, 200A, 250A, 300A	DC+ (High power d.c.)
1000V 65A, 125A, 200A, 250A, 300A	DC- (High power d.c.)

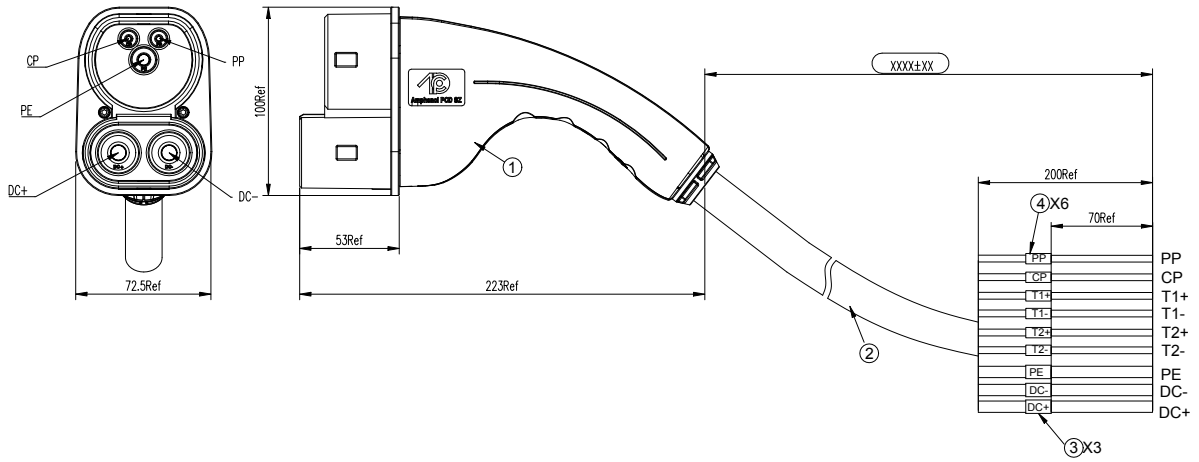
CIRCUIT DIAGRAMS



IEC COMBO VEHICLE CONNECTOR DIMENSIONS



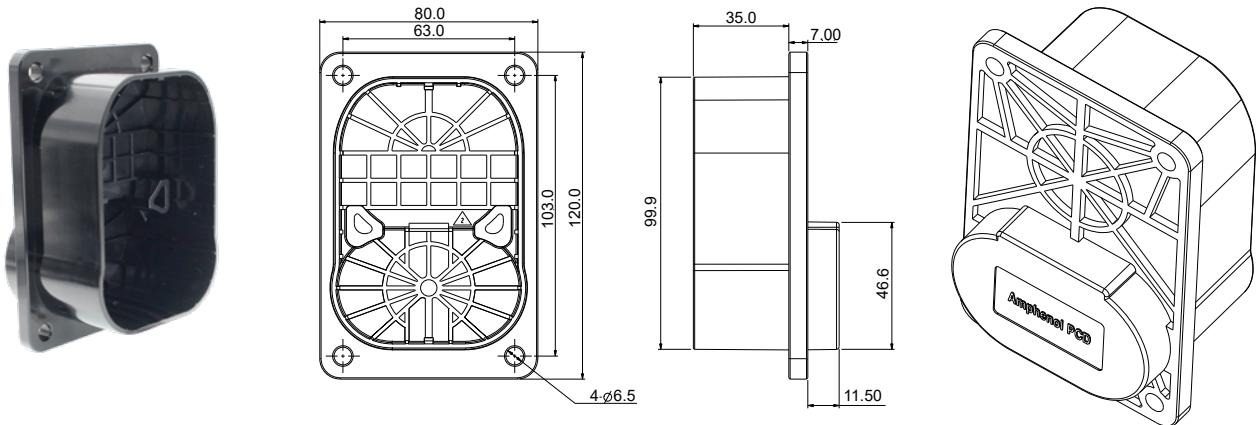
IEC COMBO VEHICLE CONNECTOR - 40A, 80A



HOLDER FOR PLUG

P/N: C-C220027208

(Connectors do not include, please order seperately)



EXCELMATE CC SAE TYPE1 AC CONNECTOR - TECHNICAL CHARACTERISTICS

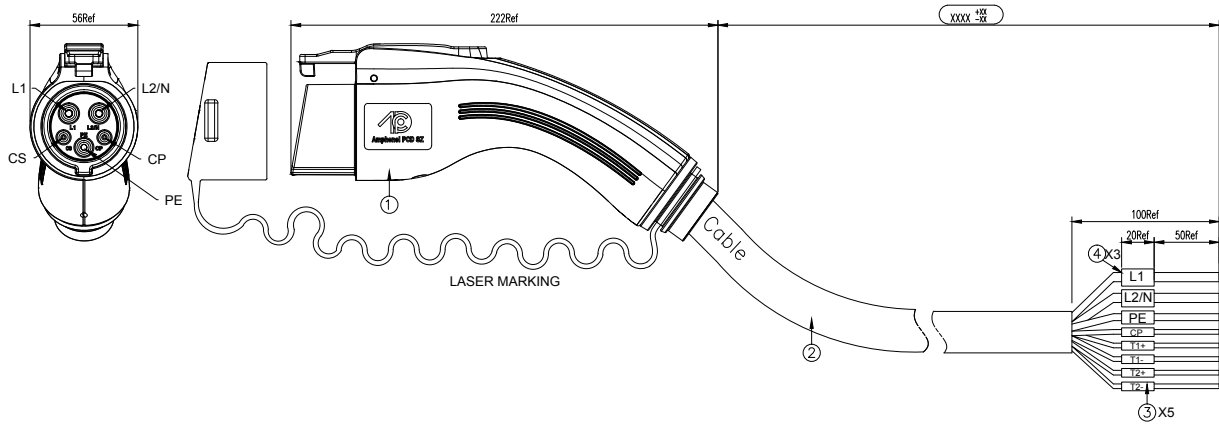


KEY FEATURES:

Compliant with:
SAE J1772, IEC 62196-2

MECHANICAL	
Mating cycles	> 10,000 cycles
Insertion / withdrawal force	75N Max
ELECTRICAL	
Rated current	L1, L2 : 16A, 20A, 32A, 48A, 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)

VERSION A



	Part Number	Sensor
16A	HVCOSAEMR3PF501RLXXXX	No temperature sensor available
20A	HVCOSAEMR3PF502RLXXXX	
32A	HVCOSAEMR3PF506RLXXXX	
48A	HVCOSAEMR3PF510RLXXXX	

Compliant with SAE1772

Configuration:

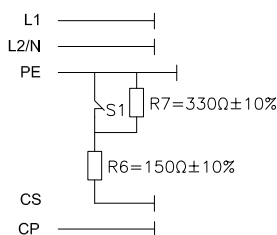
240V | 16A, 20A, 32A or 48A | 1-phase



VERSION B | POTTED VERSION

	Part Number	Sensor
32A	HVCOSAEMACPF506LXXXX	N/A
32A	HVCOSAEMACPF506NLXXXX	NTC
32A	HVCOSAEMACPF506PLXXXX	PT1000
48A	HVCOSAEMACPF510NLXXXX	NTC
48A	HVCOSAEMACPF510PLXXXX	PT1000
80A	HVCOSAEMACPF516NLXXXX	NTC
80A	HVCOSAEMACPF516PLXXXX	PT1000

CIRCUIT DIAGRAMS & CABLE SIZE



	Cable size				
Current	80A	48A	32A	20A	16A
L1, L2/N	5 AWG	8 AWG	10 AWG	12 AWG	14 AWG
PE	8 AWG	10 AWG	10 AWG	12 AWG	14 AWG
CS, CP	18 AWG				

EXCELIMATE CC SAE COMBO - TECHNICAL CHARACTERISTICS

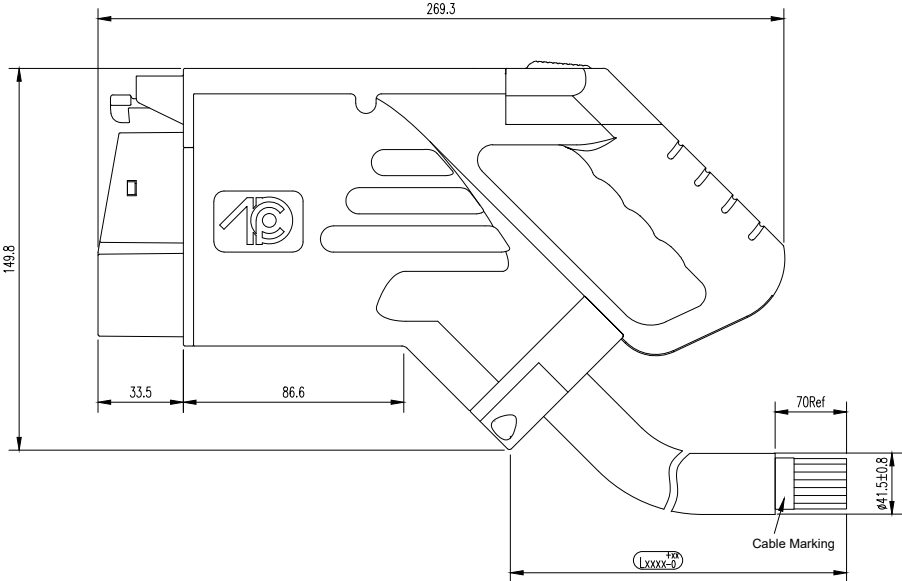
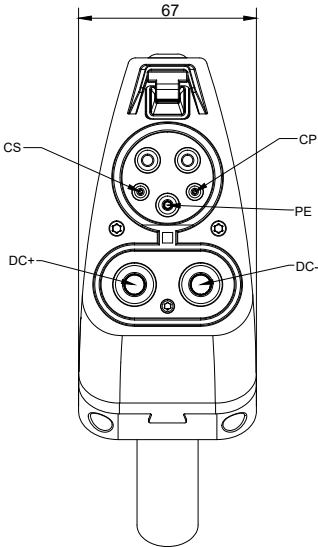


KEY FEATURES:

Compliant with:
SAE J1772
IEC 62196-3
UL2251

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	Type 3R
Ambient temperature	-30°C to 50°C
MATERIAL	
Shell	Thermoplastic
Contact	Copper alloy
Inserts	Thermoplastic
Sealing gasket	Rubber or silicon rubber
Insulator inflammability	UL94V0

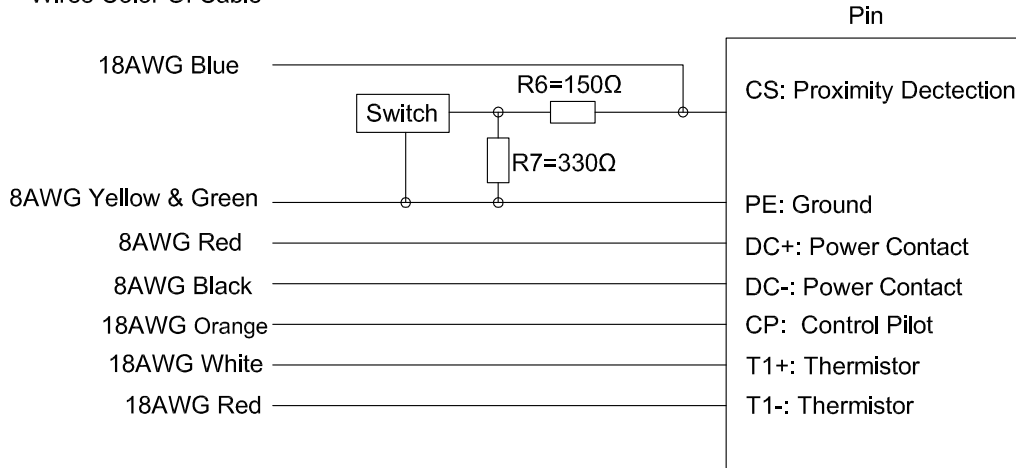
SAE COMBO VEHICLE CONNECTOR DIMENSIONS



SAE COMBO VEHICLE CONNECTOR - CIRCUIT DIAGRAMS

65A Pin And Cable For EV Connector Definition

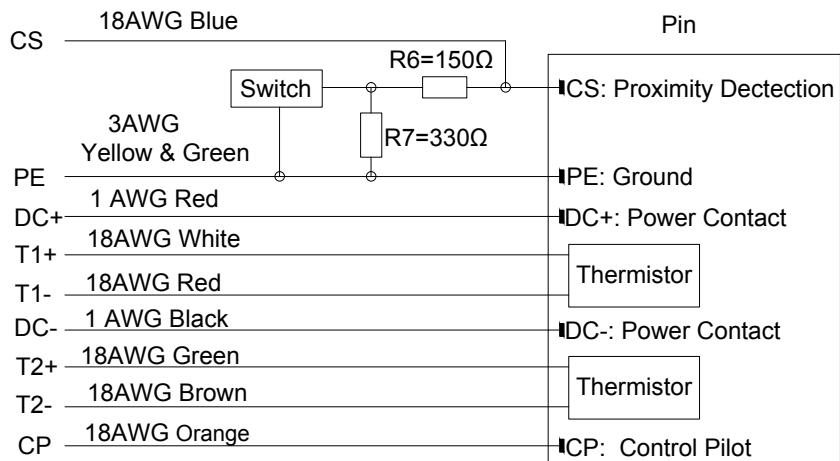
Wires Color Of Cable



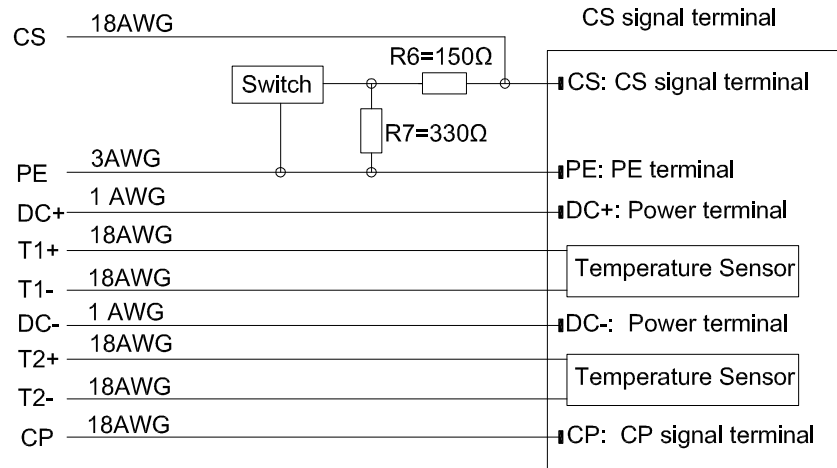
125A

Pin And Cable For EV Connector Definition

Wires Color Of Cable



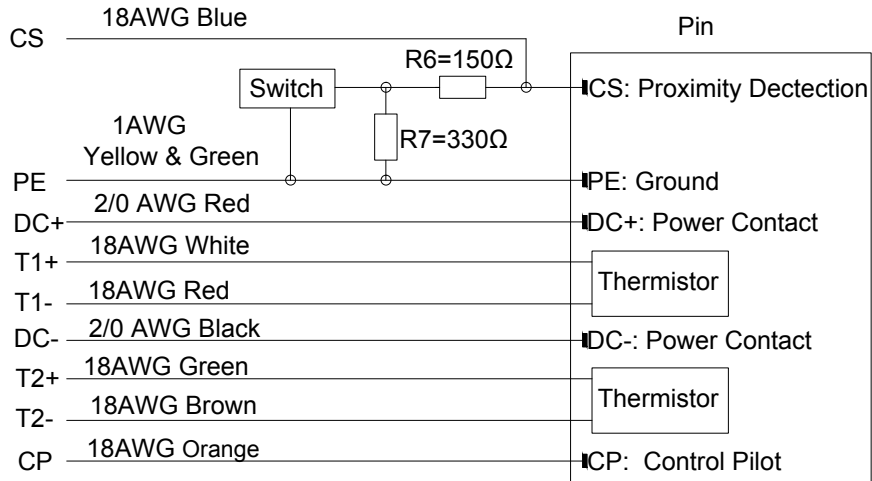
150A



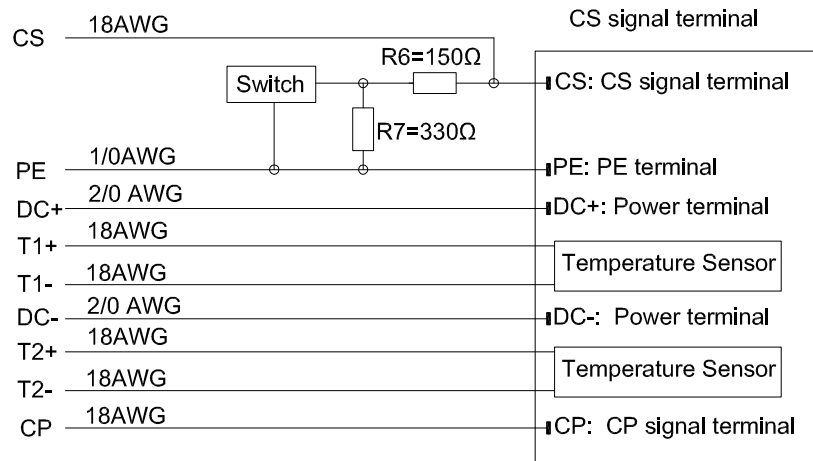
SAE COMBO VEHICLE CONNECTOR - CIRCUIT DIAGRAMS

200A

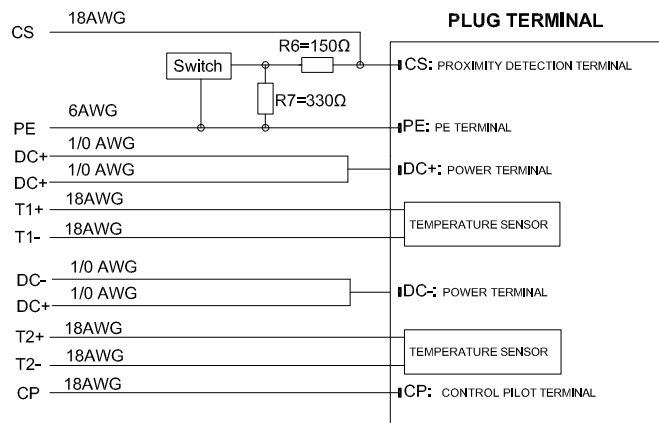
Pin And Cable For EV Connector Definition
Wires Color Of Cable



250A



300A



HOW TO ORDER | SAE COMBO

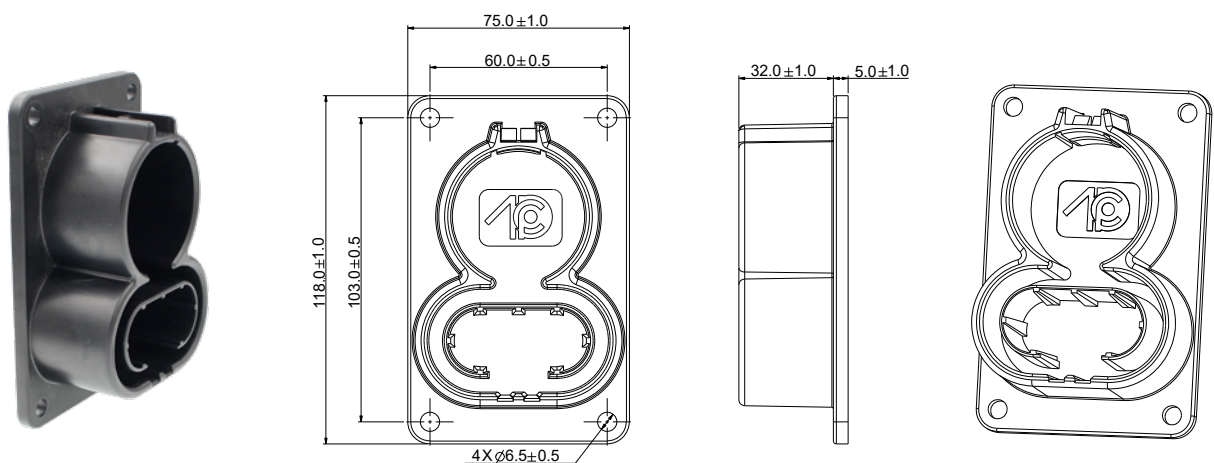
SAE Combo Vehicle Connector

	HVCO	SAE	M	125A	LXXXX	XXXX
SAE: SAE Combo						
Connector type: M: Vehicle Connector						
Rated current DC: 65A: 65A 125A: 125A 150A: 150A 200A: 200A 250A: 250A 300A: 300A						
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)



EXCELIMATE CCS1 VEHICLE INLET - TECHNICAL CHARACTERISTICS

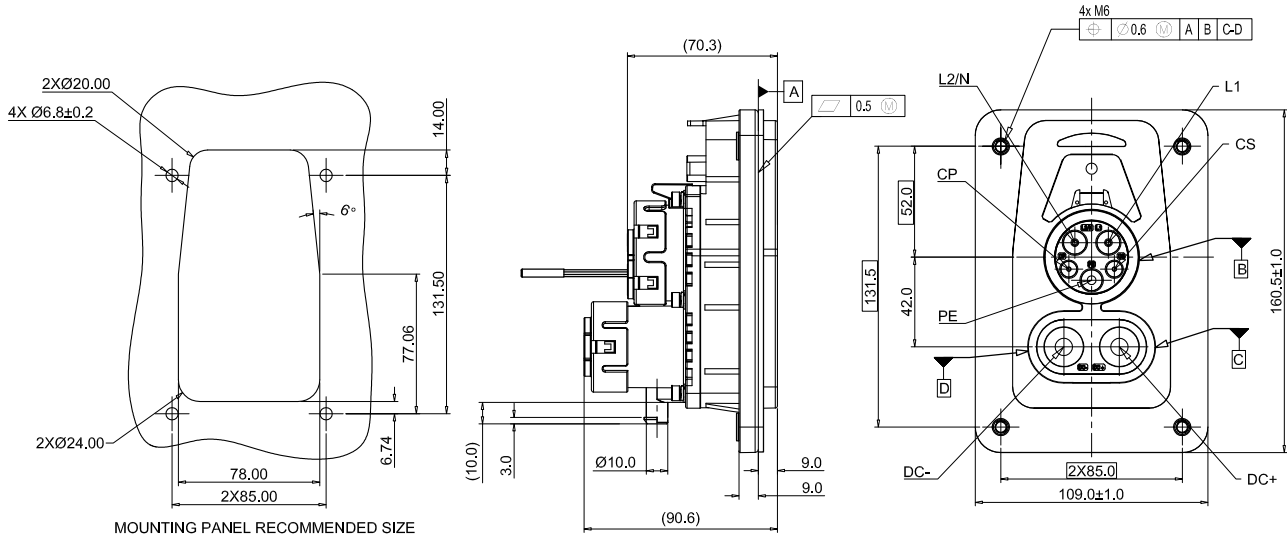


KEY FEATURES:

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	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

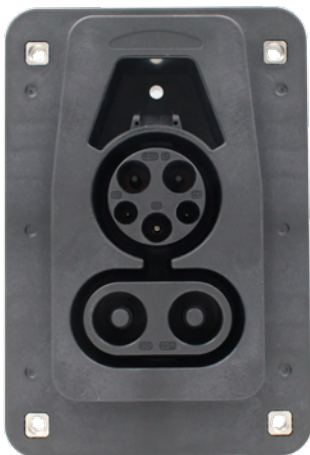
CCS1 VEHICLE INLET AC+DC DIMENSIONS



Rated voltage and current	Functions
240V 48A	L1
240V 48A	L2/N
-	PE (Protective Ground/Earth)
1000V 200A, 125A, 65A	DC+
1000V 200A, 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 / 200A+	HVCOSF009

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

Configuration:

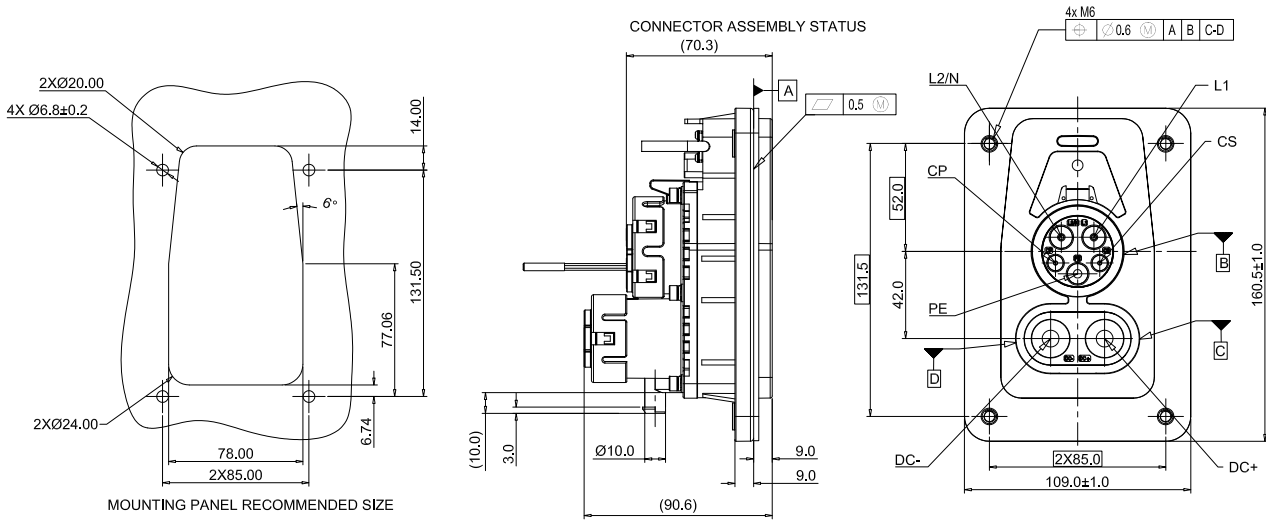
240V | 48A | 1-phase

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

Electronic lock available

12 o'clock

CCS1 VEHICLE INLET AC+DC WITH LED DIMENSIONS



Rated voltage and current	Functions
240V 48A	L1
240V 48A	L2/N
-	PE (Protective Ground/Earth)
1000V 200A, 125A, 65A	DC+
1000V 200A, 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 / 200A+	HVCOSF009D

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

Configuration:

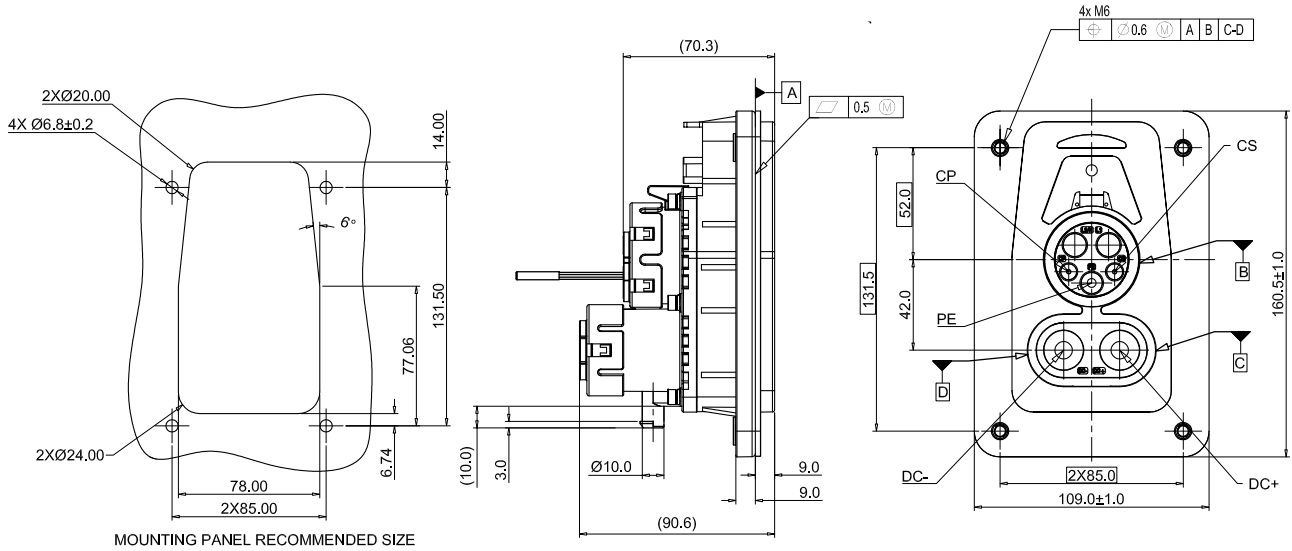
240V | 48A | 1-phase

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

Electronic lock available

12 o'clock

CCS1 VEHICLE INLET DC DIMENSIONS



Rated voltage and current	Functions
-	PE (Protective Ground/Earth)
1000V 200A, 125A, 65A	DC+
1000V 200A, 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 / 200A+	HVCOSF010

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

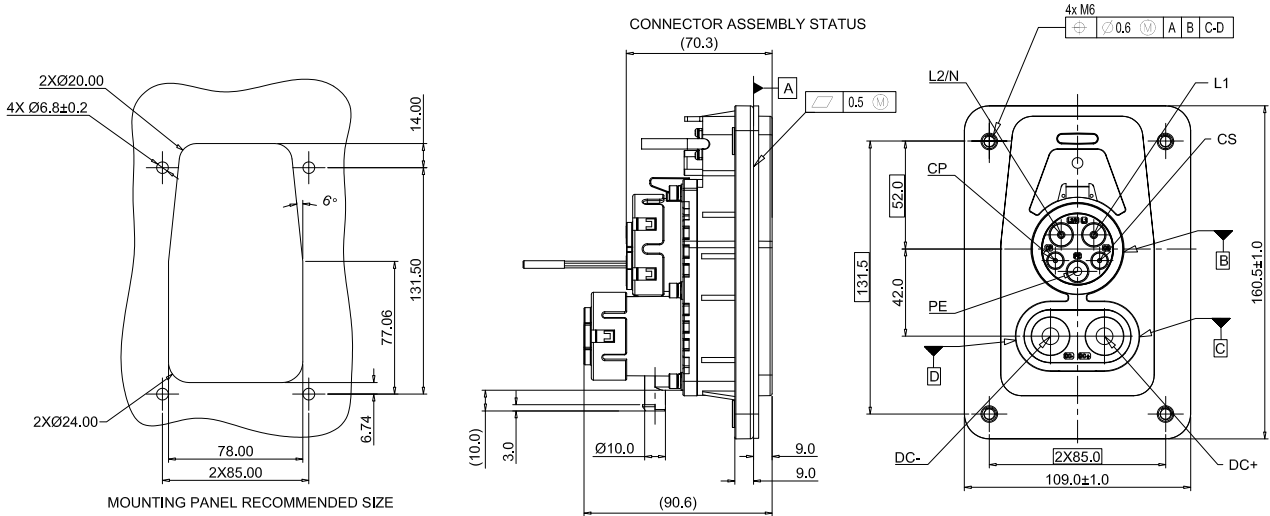
Configuration:

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

Electronic lock available

12 o'clock

CCS1 VEHICLE INLET DC WITH LED DIMENSIONS



Rated voltage and current	Functions
-	PE (Protective Ground/Earth)
1000V 200A, 125A, 65A	DC+
1000V 200A, 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 / 200A+	HVCOSF010D

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

Configuration:

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

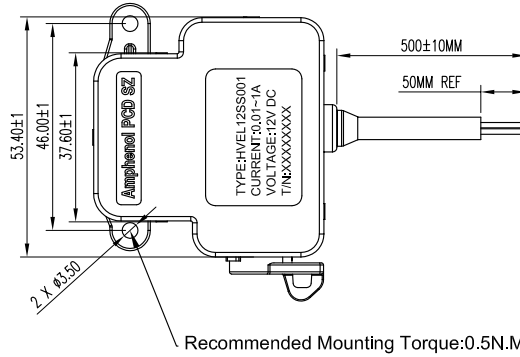
Electronic lock available

12 o'clock

LOCKING ACTUATOR

Electronic lock | AMPHENOL PCD SHENZHEN (12V)

4 wire solution is available for both 12V



P/N (12V): HVEL12SS001

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



12 o'clock



12 o'clock

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Amphenol PCD Shenzhen reserves the right to clarify this catalog.