

REV	ECN	DESCRIPTION	DATE	MODIFIED
1		RELEASE	Jan-28-2024	
2		PE WIRE CHENGED TO 6mm²	Feb-22-2024	

Amphenol PCD SZ
ORIGINAL
PDF Format
R&D

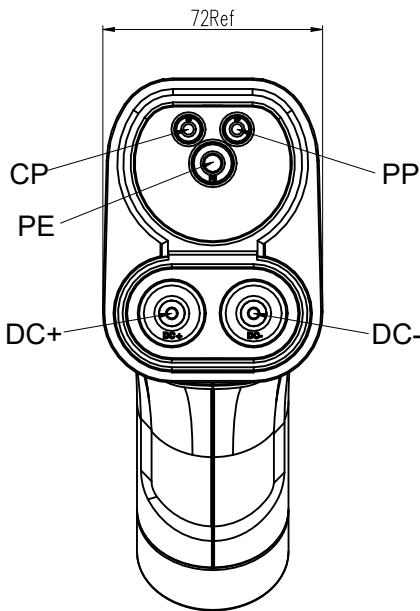
Laser marking on plug

TYPE:HVCO21011
DC:1000V 500A
IP Class:IP44(when not mated)
IP55(when mated)
TN : XXXXXYY YYWW

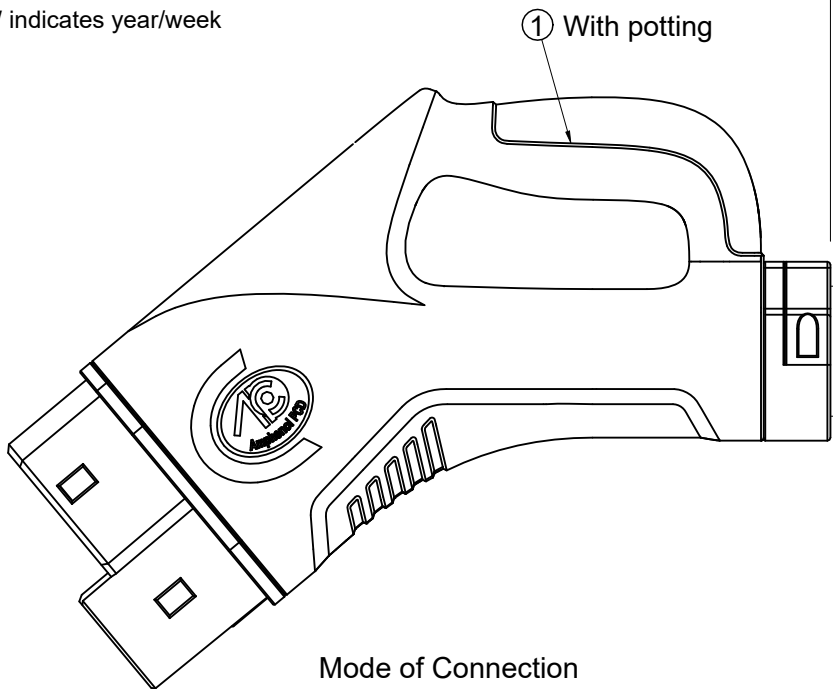


Can not print CE logo until Amphenol gets certificate

XXXXXXYY: Work order number+branch number
YYWW indicates year/week



Front view of plug

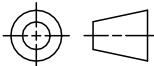


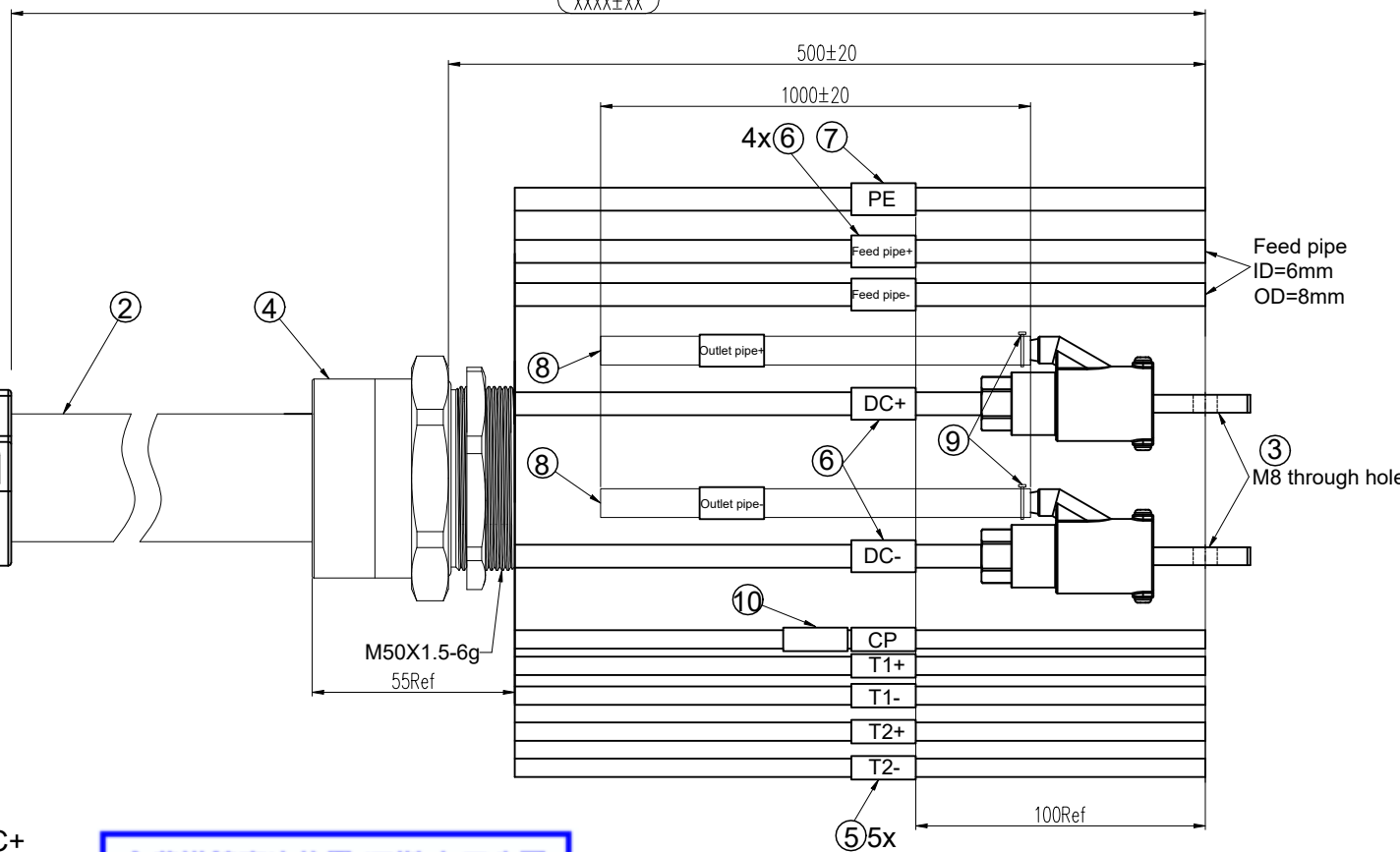
① With potting

Mode of Connection

DC+ I	35mm²	DC+
THERMISTOR PT1000	0.5mm² (White)	T1+
	0.5mm² (Brown)	T1-
DC- I	35mm² (with black line)	DC-
THERMISTOR PT1000	0.5mm² (Orange)	T2+
	0.5mm² (Black)	T2-
PE I	6mm² (Yellow&Green)	PE ②
PP I	(NO CABLE)	
CP I	0.5mm² (Sky blue)	CP

LENGTH	TOLERANCE
0~1000mm	±50
1001~5000mm	±100
>5000mm	±200

DIMENSIONS	TOLERANCES	PROJECTION
ANSI Y14.5M	.X ± 0.50	
UNITS: MM	.XX ± 0.05	
CAD FILE	ANGLES ± 2°	
ORIGINAL	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH IS THE CONFIDENTIAL PROPERTY OF Amphenol PCD Shenzhen Co. Ltd Amphenol PCD Shenzhen Co. Ltd RESERVES THE RIGHT TO CLARIFY THIS DRAWING	



安费诺精密连接器(深圳)有限公司
Amphenol PCD Shenzhen
受控文件
2024年3月11日

*Notes:

- Cable assembly data:
 - Rated Voltage:1000V DC(DC+&DC-),30V DC(CP&PP);
 - Rated Current: CP&PP: 2A;
DC+&DC-:150A/Without coolant
500A/With coolant(rated current CE qualified);
600A/With coolant(Test passed);
850A/With coolant peak*.
 - Insulation Resistance:
 - 100MΩ Min/1000V DC(DC+&DC-&PE)
 - 100MΩ Min/500V DC(CP&Thermistor wire)
 - Withstand Voltage:
 - 3000V/AC r.m.s(DC+&DC-&PE);
 - 500V/AC r.m.s(CP&PP&Thermistor wire)
 - IP-Class: IP67/IP69(enclosure);IP44(Plugged in);
 - RoHS Compliance
 - Ambient Temperature: -40℃ ~ +50℃ (+55℃ max,
Current reduction required, when the coolant temperature is beyond 85℃)
 - IEC Plug reference:C-HVCO21011
 - Reference For, IEC 62196-3-1
 - Cable Minimum Bending Radius: ≥ 8XOD(Static applications);
≥ 10XOD (Dynamic applications)
- © 6.Durability: 20000 cycles
7.Working Pressure:0~7bar; Coolant: Dielectric coolant
8. Ground wire is suitable for isolated DC EV supply equipment as reference earth or function earth.
*only if user monitored coolant temperautre not excess 85℃,can support 850A peak once have sufficient cooling ability.

⑩	C210006342	DOUBLE-WALL H.S.T: Ø4.0 BLACK	0.03	m
⑨	P01BN01331	STEPLESS EAR CLAMP/SUS304	2	EA
⑧	P01BN01497	TUBING PIPE,OD=8,ID=6	2.0	m
⑦	C210000081	SINGLE-WALL H.S.T: Ø5.0 WHITE	0.03	m
⑥	C210006511	SINGLE-WALL H.S.T: Ø12.7 WHITE	0.12	m
⑤	C210006837	SINGLE-WALL H.S.T: Ø3.2 WHITE	0.15	m
④	P02B000220	CABLE GLAND,M50	1	EA
③	P02B00028601	TERMINAL OF DC WIRE,M8	2	EA
②	P01BC00542	2x35mm²+TUBES+6mm²+8x0.5mm² Black OD=31±0.5	AR	m
①	HVCO21011	CCS2 500A COOLING PLUG,1000V,BLACK	1	EA
ITEM	P/N	DESCRIPTION	QTY	UNIT

Amphenol PCD Shenzhen		TITLE CCS2 COOLING PLUG(HANDLE) 500A CABLE ASSEMBLY		
ENGR Jan-28-2024				
CHKD		SIZE A3	DWG NO. C-HVCO21011LXXXX	REV 2
APPD		SCALE 1:1		SHEET 1 OF 1