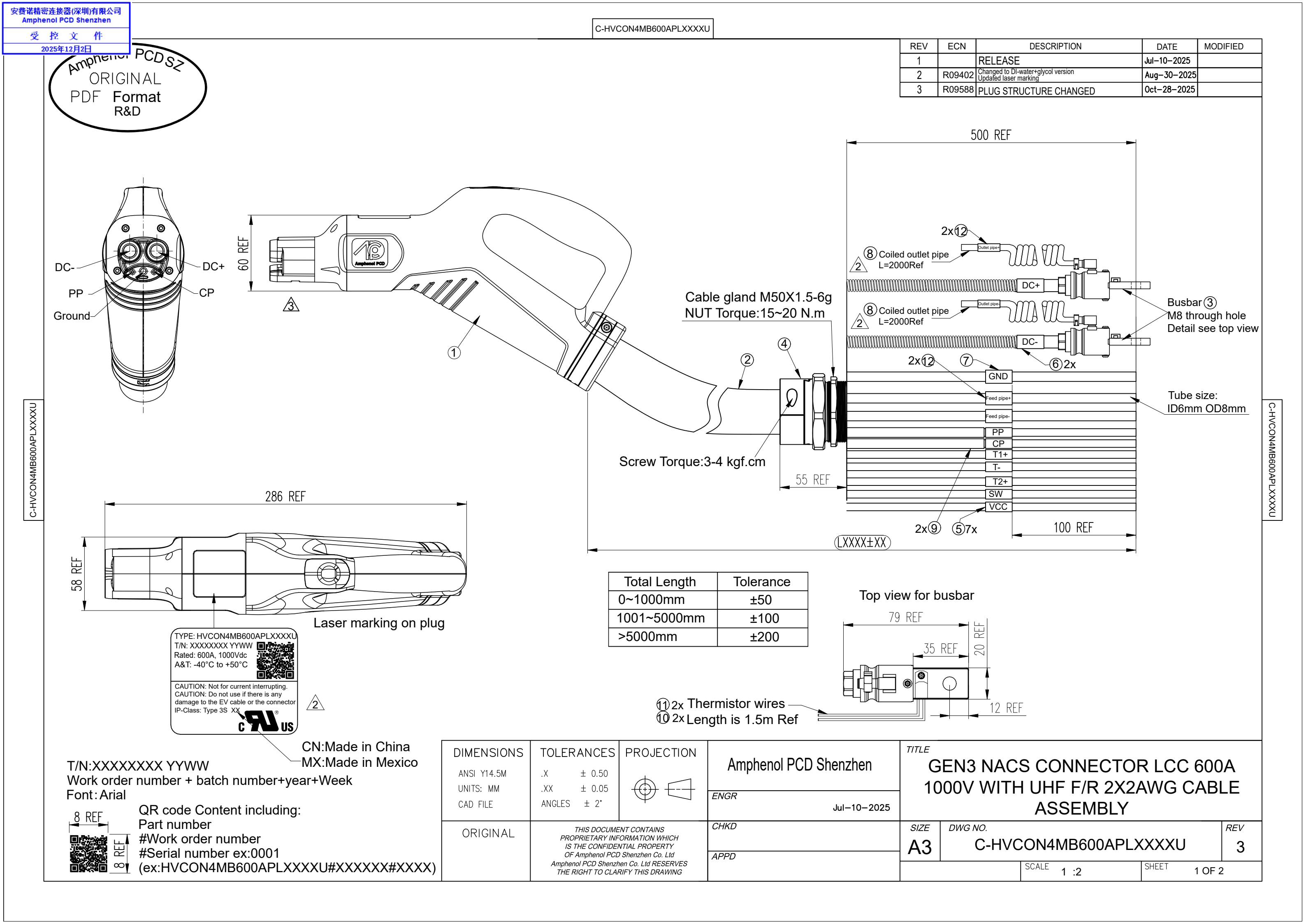




安费诺精密连接器(深圳)有限公司 Amphenol PCD Shenzhen		C-HVCON4MB600APLXXXXU	
受 控 文 件			
2025年12月2日			

DC Mode of Connection With UHF

NACS connector

PP: Proximity Pilot

Ground

DC+: Power Contact

DC-: Power Contact

CP: Control Pilot

DC+Thermistor
PT1000

DC-Thermistor
PT1000

T1+

T1-

T2-

T2+

R6=150Ω

UHF

PCBA

Switch

Wire size and color

Label

18AWG (Sky Blue)

18AWG (Brown)

18AWG (Blue)

10AWG (Yellow/Green)

2AWG (Natural color)

18AWG (White)

18AWG (Black)

18AWG (Gray)

2AWG (Natural color)

18AWG (Pink)

PP

SW

VCC

GND

DC+

T1+

T-

T2+

DC-

CP

*Notes:

1.Cable assembly data:

✦ Rated Voltage: 1000V DC (DC+ & DC-), 30V DC (CP & PP);

✦ Rated Current: 600A Max with coolant, 150A Max without coolant (DC+ & DC-)

@ the max permissible temperature is 90°C

2A Max (CP & PP);

✦ Insulation Resistance: 100MΩ Min, 1000V DC(DC+, DC-, PE)

100MΩ Min, 500V DC(CP, PP, Thermistor wire)

✦ Withstand Voltage: 4200V / DC (DC+, DC-, PE);

700V / DC (CP, PP, Thermistor wire);

The insulation resistance and withstand voltage test cannot be performed between the wires on the PCB board; For Withstand Voltage test need to use with Direct current;

✦ IP-Class: IP67 (enclosure); Type 3S (Plugged in)

✦ RoHS Compliance

◎2. Ambient Temperature: -40°C to +50°C (+55°C max,Current reduction required, when the working temperature is beyond 90°C)

3. NACS Plug reference: C-HVCONXMXXXXAXL0000X

4. Cable Minimum Bending Radius: ≧ 8XOD (Static applications); ≧ 10XOD (Dynamic applications)

5. Durability: ≧ 20, 000 cycles (Replaceable)

6. Working Pressure: 0~7bar; Cooling Medium: DI-water+glycol or Dielectric coolant

△2

7. VCC: 5-15V; <100mA; UHF Transmitting Frequency: 315MHz

8. Weight of Cable Without Coolant: app 1.40kg/m

9. Thermistor: PT1000, Qty: 4

10. Standard: J3400 complaint

⑫

C210021008

SINGLE-WALL H.S.T: Ø8.0 WHITE

0.08

m

⑪

P01BN01166

SCREW TO INSTALL PT1000 SENSOR M4XL8

2

EA

⑩

P01BN01469

PT1000 SENSOR WITH 1500mm WIRE

2

EA

⑨

C210000080

SINGLE-WALL H.S.T: Ø5.0 BLACK

0.80

m

⑧

P01BN03154

OUTLET PIPE,COILED L=2000Ref

2.0

m

⑦

C210000081

SINGLE-WALL H.S.T: Ø5.0 WHITE

0.03

m

⑥

C210021010

SINGLE-WALL H.S.T: Ø14 WHITE

0.06

m

⑤

P05B000029

SINGLE-WALL H.S.T: Ø3.0 WHITE

0.14

m

④

P02B000699

CABLE GLAND

1

EA

③

P02B00099201

TERMINAL ASSEMBLY OF DC WIRE,M8

2

EA

②

CABLE

2x2AWG+TUBES+10AWG+8x18AWG Black OD=34±1

AR

m

①

HVCON4MB600A

NACS 600A LCC PLUG WITH UHF-BLACK

1

EA

ITEM

P/N

DESCRIPTION

QTY

UNIT

SIZE

DWG NO.

REV

A3

C-HVCON4MB600APLXXXXU

3

SCALE

NA

SHEET

2 OF 2