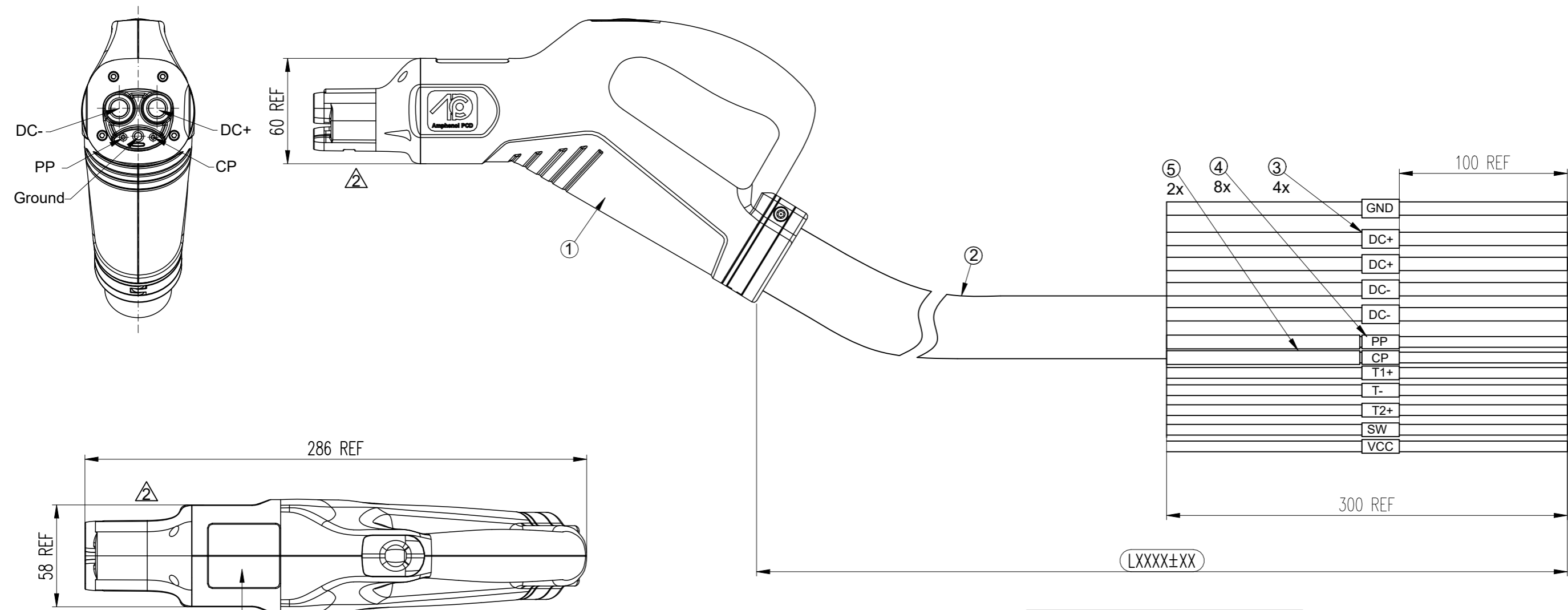


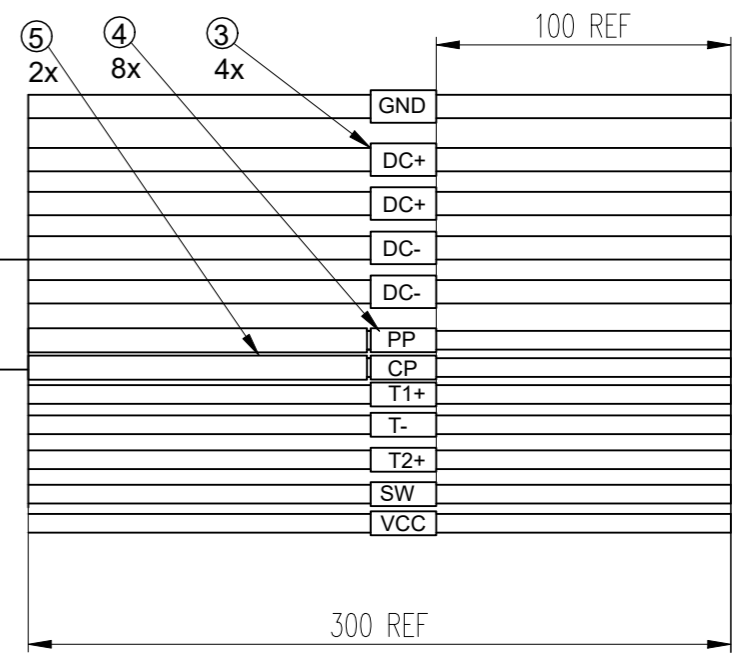
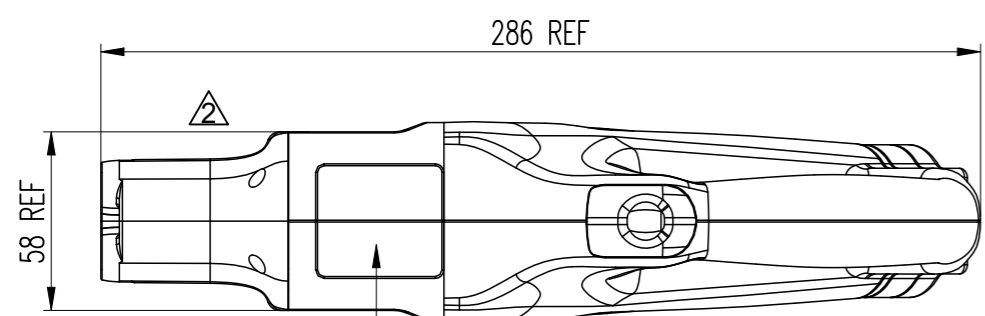
REV	ECN	DESCRIPTION	DATE	MODIFIED
1		RELEASE	Aug-26-2025	
2	R09588	PLUG STRUCTURE CHANGED	Oct-28-2025	

Amphenol PCD SZ  
ORIGINAL  
PDF Format  
R&D



C-HVCON3MB400APLXXXXU

C-HVCON3MB400APLXXXXU



Laser marking on plug

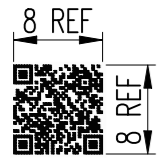
TYPE: HVCON3MB400APLXXXXU  
T/N: XXXXXXXX YYWW  
Rated: 400A, 1000Vdc  
A&T: -40°C to +40°C

CAUTION: Not for current interrupting.  
CAUTION: Do not use if there is any damage to the EV cable or the connector  
IP-Class: Type 3S XX

CN: Made in China  
MX: Made in Mexico

T/N: XXXXXXXX YYWW  
Work order number + batch number + year + Week  
Font: Arial

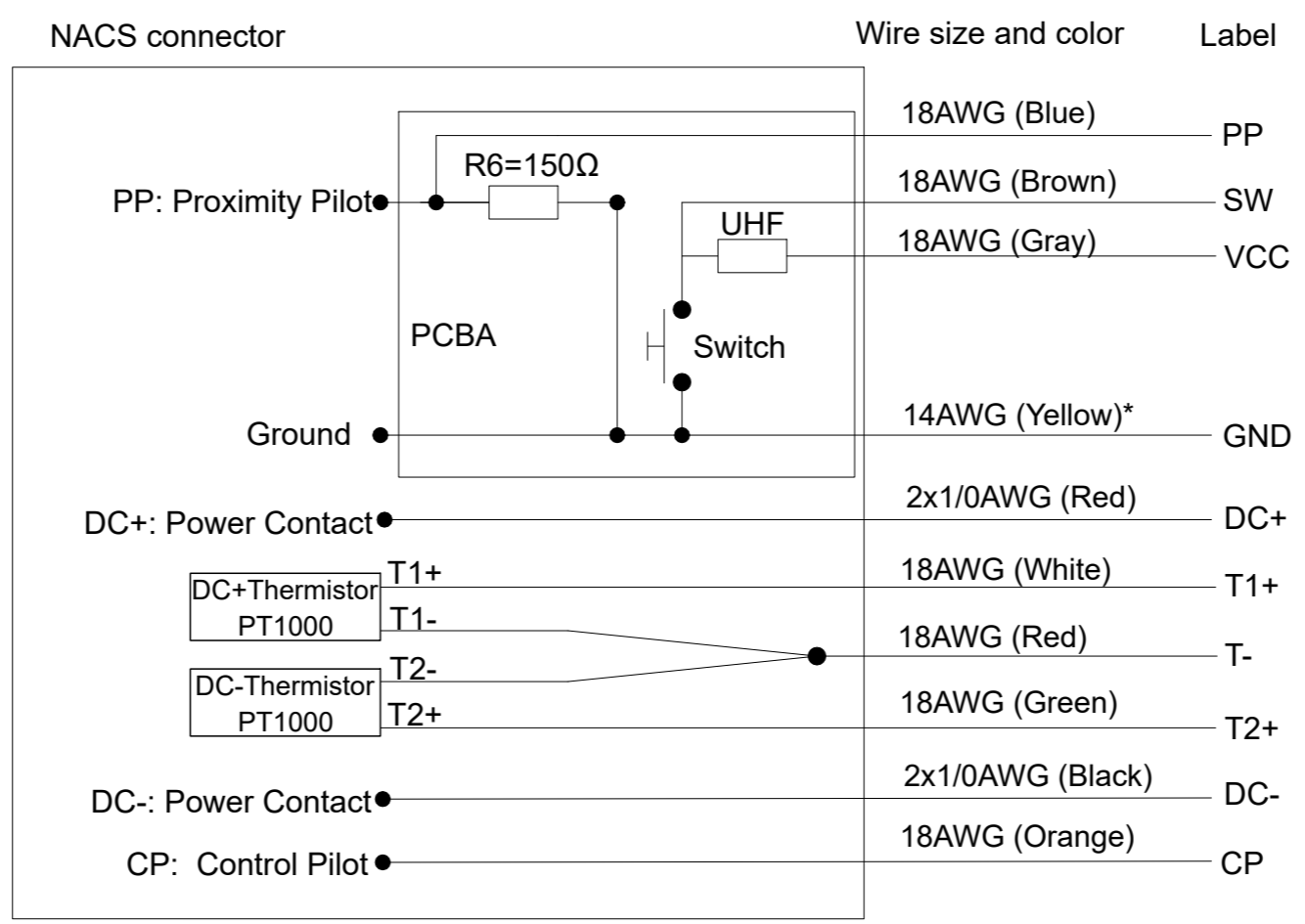
QR code Content including:  
Part number  
#Work order number  
#Serial number ex: 0001  
(ex: HVCON3MB400APLXXXXU#XXXXXX#XXXX)



Total Length	Tolerance
0~1000mm	±50
1001~5000mm	±100
>5000mm	±200

DIMENSIONS	TOLERANCES	PROJECTION	TITLE		
ANSI Y14.5M UNITS: MM CAD FILE	.X ± 0.50 .XX ± 0.05 ANGLES ± 2°		GEN3 NACS CONNECTOR 400A 1000V WITH UHF F/R 4X1/0AWG CABLE ASSEMBLY		
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		Amphenol PCD Shenzhen		REV 2
			ENGR Aug-26-2025	CHKD	APPD
				DWG NO. C-HVCON3MB400APLXXXXU	SCALE 1:2 SHEET 1 OF 2

DC Mode of Connection  
WITH UHF



\*Notes:

- Cable assembly data:
  - Rated Voltage: 1000V DC (DC+, DC-), 30V DC (CP, PP);
  - Rated Current: 400A Max (DC+, DC-) @ the max permissible temperature is 90°C  
2A Max (CP, PP);
  - Insulation Resistance: 100MΩ Min, 1000V DC (DC+, DC-, GND)  
100MΩ Min, 500V DC (CP, PP, Thermistor wire)
  - Withstand Voltage: 4200V / DC (DC+, DC-, GND);  
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
- Ambient Temperature: -40°C to +40°C (+55°C max, Current reduction required, when the working temperature is beyond 90°C)
- VCC: 5-15V; <100mA; UHF Transmitting Frequency: 315MHz
- NACS Plug reference: C-HVCONXMXXXAXL0000X
- Cable Minimum Bending Radius: 5xOD (Static applications); 10xOD (Dynamic applications)
- Durability: ≥ 20,000 cycles (Replaceable)
- Weight of Cable: app 2670g/m
- Standard: UL2251, SAE J3400 complaint

\*Ground wire is suitable for isolated DC EV supply equipment as reference earth or function earth.

⑤	C210000080	SINGLE-WALL H.S.T: Ø5.0 BLACK	0.40	m
④	P05B000029	SINGLE-WALL H.S.T: Ø3.0 WHITE	0.16	m
③	C210006511	SINGLE-WALL H.S.T: Ø12.7 WHITE	0.08	m
②	CABLE	4X1/0AWG+14AWG+7X18AWG BLACK OD36.5	AR	m
①	HVCON3MB400APL0000U	NACS 400A PLUG BLACK WITH UHF- REPLACEABLE	1	EA
ITEM	P/N	DESCRIPTION	QTY	UNIT
		SIZE	REV	
		A3	C-HVCON3MB400APLXXXXU	
		SCALE	NA	SHEET 2 OF 2

C-HVCON3MB400APLXXXXU

C-HVCON3MB400APLXXXXU