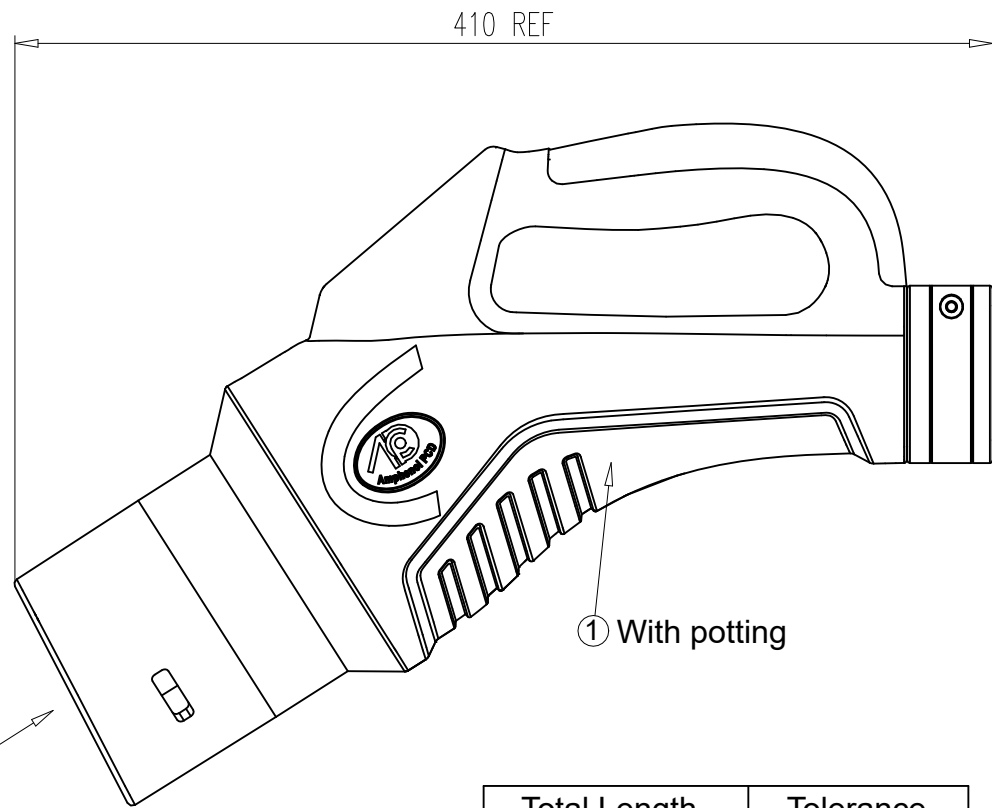
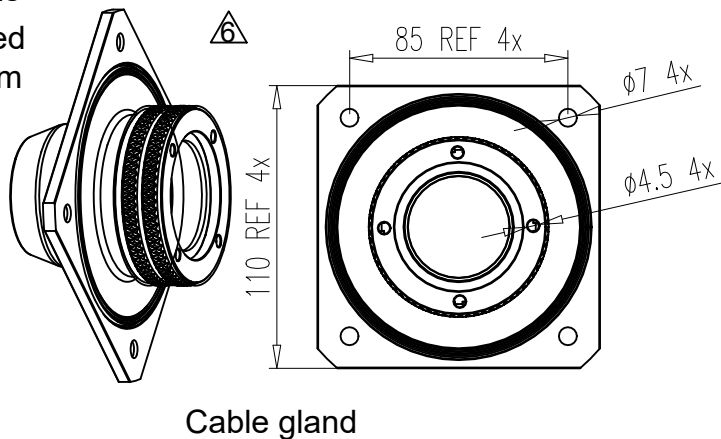
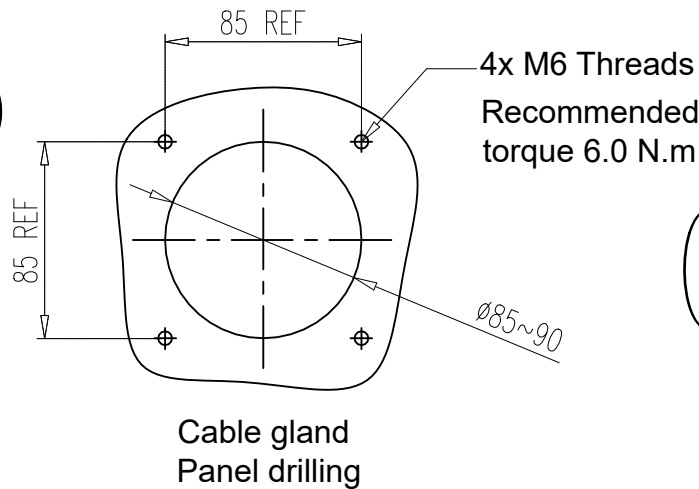


C-HVCO4M1001LXXXX

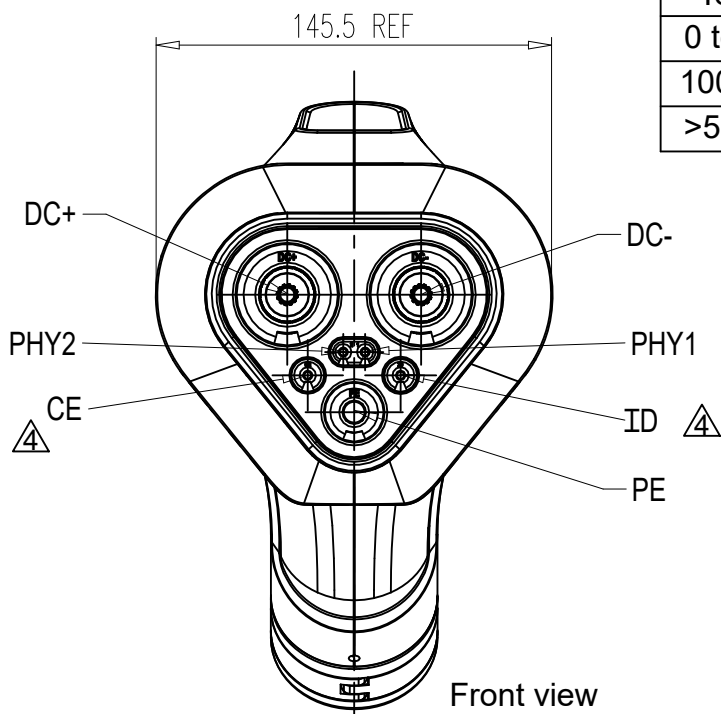
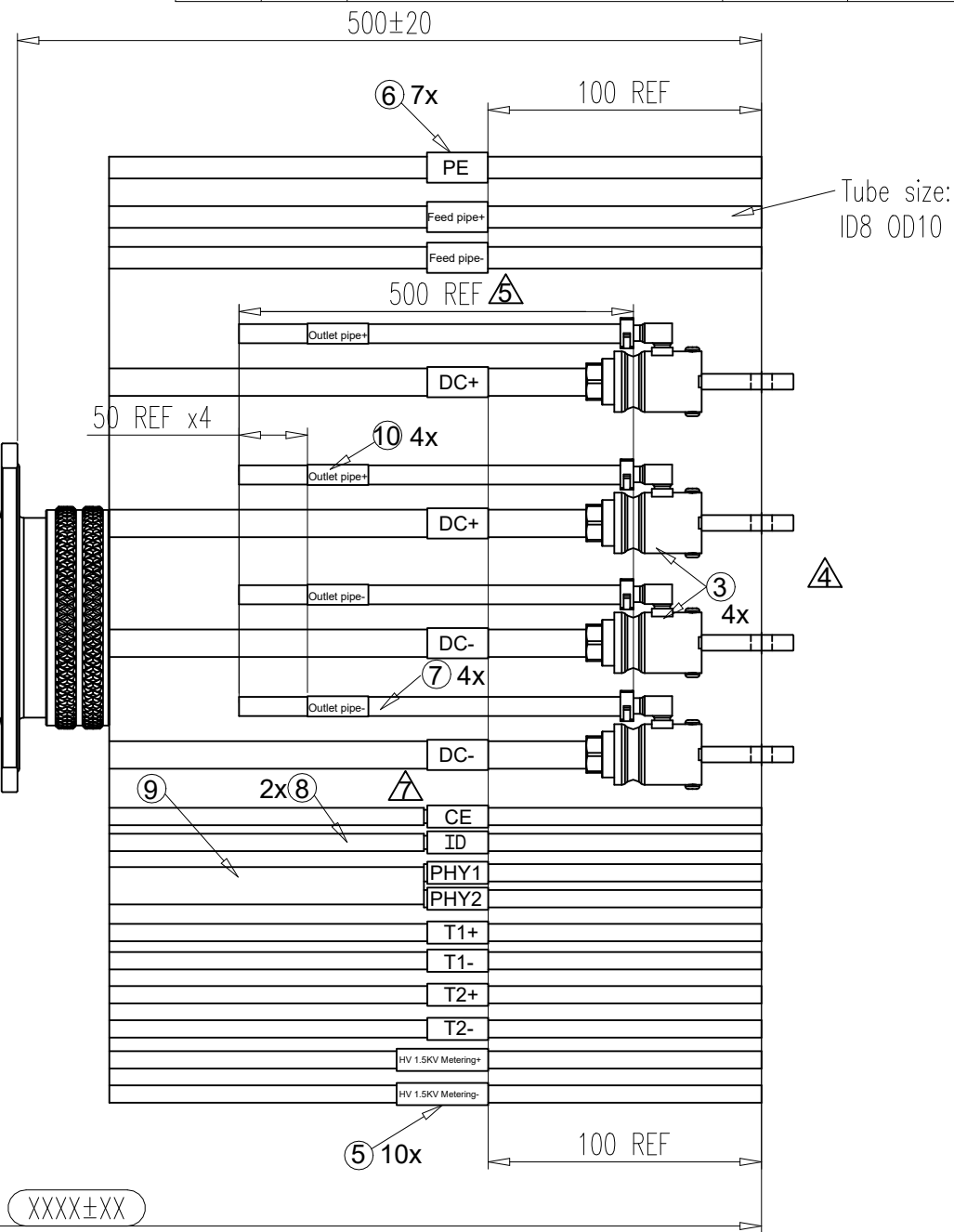
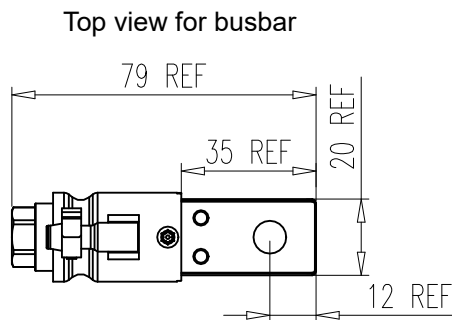
REV	ECN	DESCRIPTION	DATE	MODIFIED
1		PER RELEASE	Nov-10-2023	
2	R7957N	UPDATED LABEL TEXT ON METERING WIRES&NOTES	Mar-29-2024	
3	C7806N	UPDATED NOTES	Apr-28-2024	
4	R8148N	UPDATED BUSBAR	Jun-05-2024	
5	C8768N	UPDATED DRAWING	Jan-07-2025	

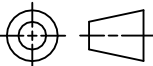
6	R09320	UPDATED CABLE GLAND	Aug-12-2025	
7	R09663	CABLE UPGRADE	Oct-27-2025	

Amphenol PCD SZ
ORIGINAL
PDF Format
R&D

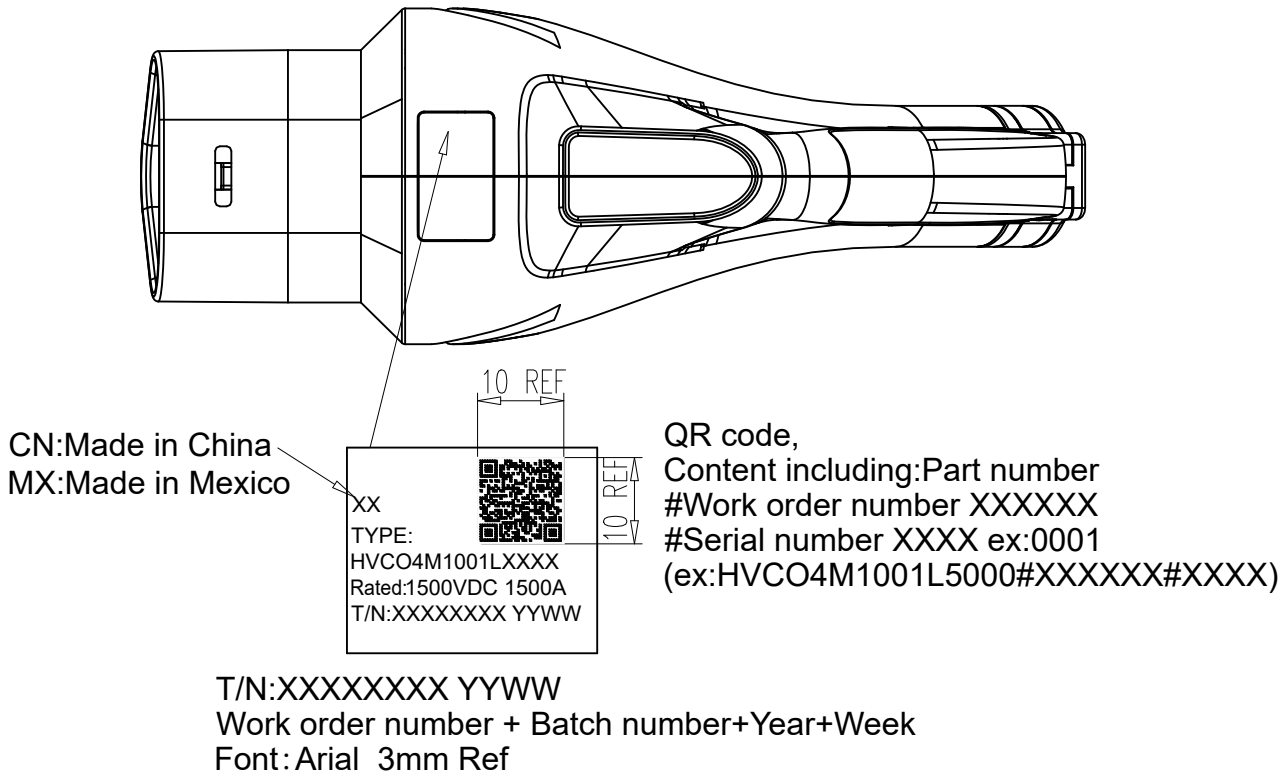


Total Length	Tolerance
0 to 1000mm	±50
1001 to 5000mm	±100
>5000mm	±200



DIMENSIONS	TOLERANCES	PROJECTION	TITLE			
ANSI Y14.5M	.X ± 0.50		Amphenol PCD Shenzhen	MCS 1500A VEHICLE CONNECTOR CABLE ASSEMBLY		
UNITS: MM	.XX ± 0.05		ENGR			
CAD FILE	ANGLES ±2.0°		Nov-10-2023			
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	CHKD	SIZE	DWG NO.	REV	
		APPD	A3	C-HVCO4M1001LXXXX	7	
					SCALE 1:1	SHEET 1 OF 2

Marking



Mode of Connection

MCS connector	Wire size and color	Label
DC+ I	2x35mm ² (Natural)	DC+
	0.5mm ² (Red)	HV 1.5KV Metering+
	0.5mm ² (White)	T1+
	0.5mm ² (Brown)	T1-
DC- I	2x35mm ² (Natural)	DC-
	0.5mm ² (Yellow)	HV 1.5KV Metering-
	0.5mm ² (Gray)	T2+
	0.5mm ² (Black)	T2-
PE I	25mm ² (Yellow&Green)	PE
R=10KΩ ID I	0.75mm ² (Pink)	ID
CE I	0.75mm ² (Blue)	CE
PHY1 I	0.5mm ² (Green)	PHY1
PHY2 I	0.5mm ² (White)	PHY2

*Notes:

1.Cable Assembly Data:

- ✦ Rated Voltage: 1500V DC (DC+, DC-, Metering wires), 30V DC (CE, ID, PHY1, PHY2);
- ✦ Rated Current: 1500A Max (DC+, DC-) @ the max permissible temperature of contact is 100°C
the max permissible temperature of cable is 85°C
- ✦ Insulation Resistance: 100MΩ Min (1500V DC FOR DC+, DC-; 500V DC for others)
- ✦ Withstand Voltage: 4000V AC (DC+, DC-); Others 500V AC
- ✦ IP-Class: IP67 (enclosure); IP44 (Plugged in)
- ✦ RoHS Compliance

2.Ambient Temperature: -40°C to +50°C (+55°C max, Current reduction required,when the working temperature is beyond 80°C)

Storge temperature: -40°C to +80°C

3.IEC Plug reference: C-HVCO4M1001

4.Cable Minimum Bending Radius: ≥10 OD DC+ and DC- Minimum Bending Radius: ≥200mm

5.Durability: ≥ 20000 cycles

6.Working Pressure: 0 to 7bar;

Cooling medium: Dielectric coolant

7.Weight of cable: app 2.3 kg/m Weight of charging connector: app 3.5 kg/EA

8.T-rise depends on flow rate and chiller, Detailed technical data please refer to MCS Technical Data Sheet.

9.For HV 1.5KV Metering wires: Please protect with insulated material

at the tail if don't use both wires

⑩	C210021008	SINGLE-WALL H.S.T: Ø8 WHITE	0.12	m
⑨	C2100054031	SINGLE-WALL H.S.T: Ø8.0 BLACK	0.35	m
⑧	C210000080	SINGLE-WALL H.S.T: Ø5.0 BLACK	0.70	m
⑦	P01BN01497	TUBING PIPE,OD=8,ID=6	2.1	m
⑥	C210006511	SINGLE-WALL H.S.T: Ø12.7 WHITE	0.21	m
⑤	C210006837	SINGLE-WALL H.S.T: Ø3.2 WHITE	0.22	m
④	P02B000572	CABLE GLAND	1	EA
③	P02B00070501	TERMINAL ASSEMBLY OF DC WIRE,M8	4	EA
②	P01BC00512	4x35mm ² +1x25mm ² +8x0.5mm ² +2x0.75mm ² Black OD42±1	AR	m
①	HVCO4M1001	MCS 1500A COOLING VEHICLE CONNECTOR BLACK	1	EA
ITEM	P/N	DESCRIPTION	QTY	UNIT

SIZE	DWG NO.	REV
A3	C-HVCO4M1001LXXXX	7
SCALE	NA	SHEET 2 OF 2