

IPX7



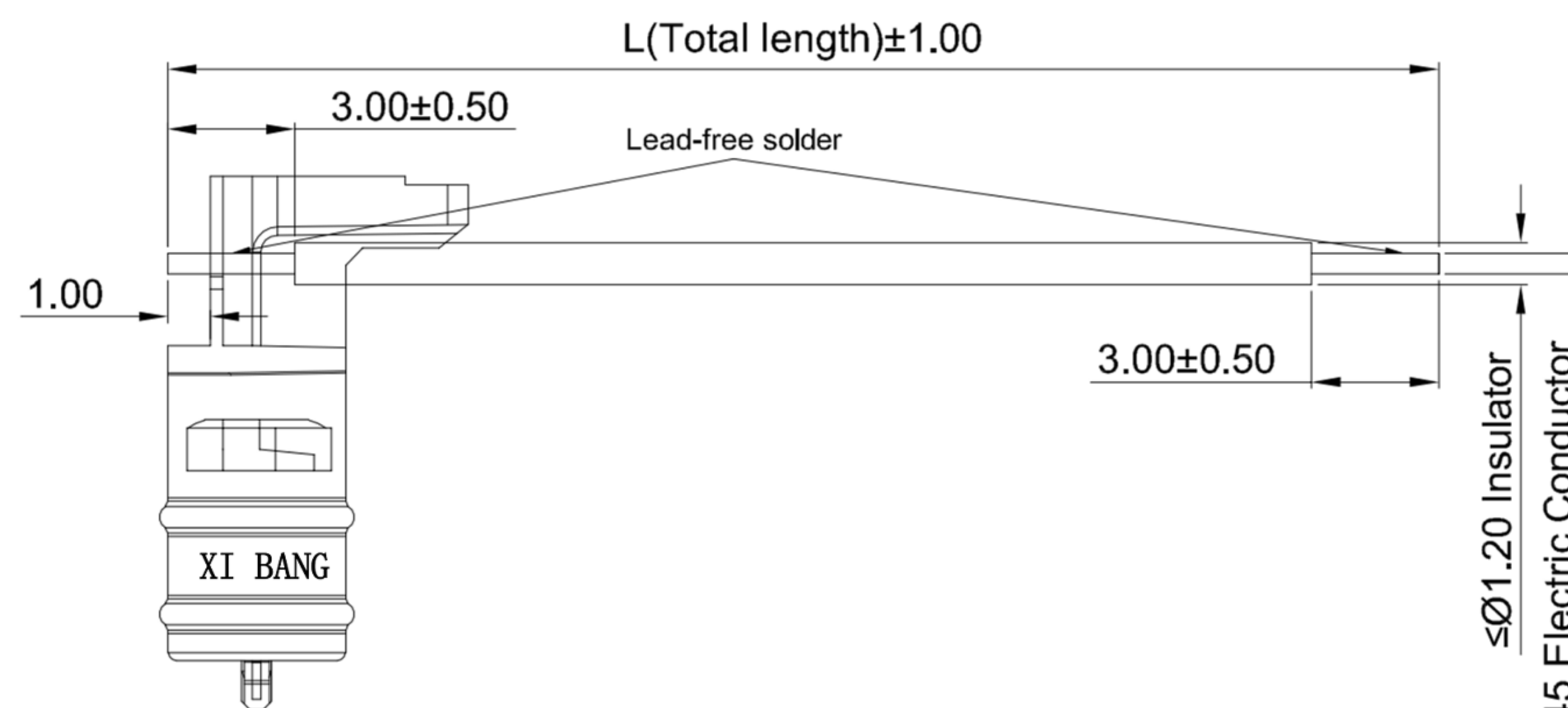
USB-C Specification:

1. Current rated: 3A on vbus
2. Withstanding voltage: 100V AC/minute
3. Contact resistance: 40mΩ Max
4. Insulation resistance: 100MΩ Min
5. Operating temperature: -40°C ~ +85°C
6. Mating force: 5N~20N
7. Unmating force: 8N~20N
8. Durability cycle: 10,000 cycles
9. Waterproof grade: IP-X7.

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
				CC1							
				Second							
B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1
GND			VBUS				CC2	VBUS			GND
First			First				Second	First			First

CONTACT FIGURE:

CONN PIN	PCB PIN
B4,B9(VBUS)	P1(POSITIVE ELECTRODE)
A5(CC) 5.1kΩ resistance GND	P2
B5(CC) 5.1kΩ resistance GND	P3
B1,B12(GND)	P4(NEGATIVE ELECTRODE)



1	MOLDING SEALING RING	HIGH TEMPERATURE PLASTIC	TPE BLACK
2	MID PLATE	STAINLESS STEEL	SUS301 CLEAN
3	FIRST MOLDING	HIGH TEMPERATURE PLASTIC	PC BLACK
4	SECOND MOLDING	HIGH TEMPERATURE PLASTIC	PA9T BLACK
5	TERMINALS	COPPER ALLOY(C7025)	Au PLATING ON CONTACT AREA
6	RESISTANCE		5.1±5%kΩ (0603)
7	WIRE ROD		BLACK UL10368 AWG28
8	WIRE ROD		RED UL10368 AWG28
NO.	PARTS	MATERIAL	REMARKS

SEE TABLE

Molde Code	Electroplating specifications	Overall length dimension
XB-USB-C-2011-A	Nickel plating of 150u "-250u" in the entire area, palladium nickel plating of 5u "min in the contact area,80u "min of fog tin plating on the welding area	Total length 40mm
XB-USB-C-2011-B	Nickel plating of 150u "-250u" in the entire area, palladium nickel plating of 5u "min in the contact area,80u "min of fog tin plating on the welding area	Total length 30mm
XB-USB-C-2011-C	Nickel plating of 150u "-250u" in the entire area, gold plating of 1u "min in the contact area,80u "min of fog tin plating on the welding area	Total length 40mm
XB-USB-C-2011-D	Nickel plating of 150u "-250u" in the entire area, gold plating of 1u "min in the contact area,80u "min of fog tin plating on the welding area	Total length 30mm

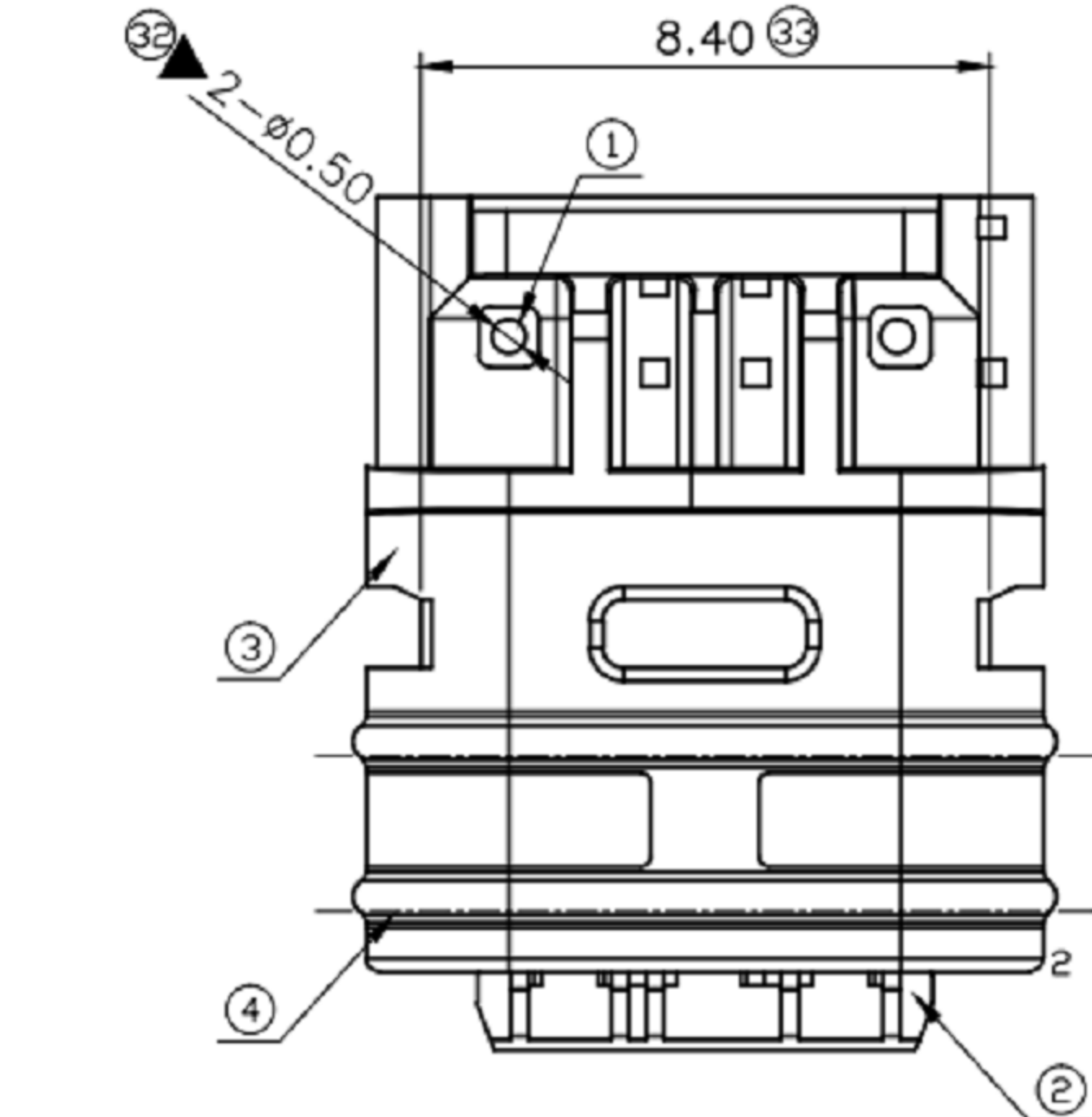
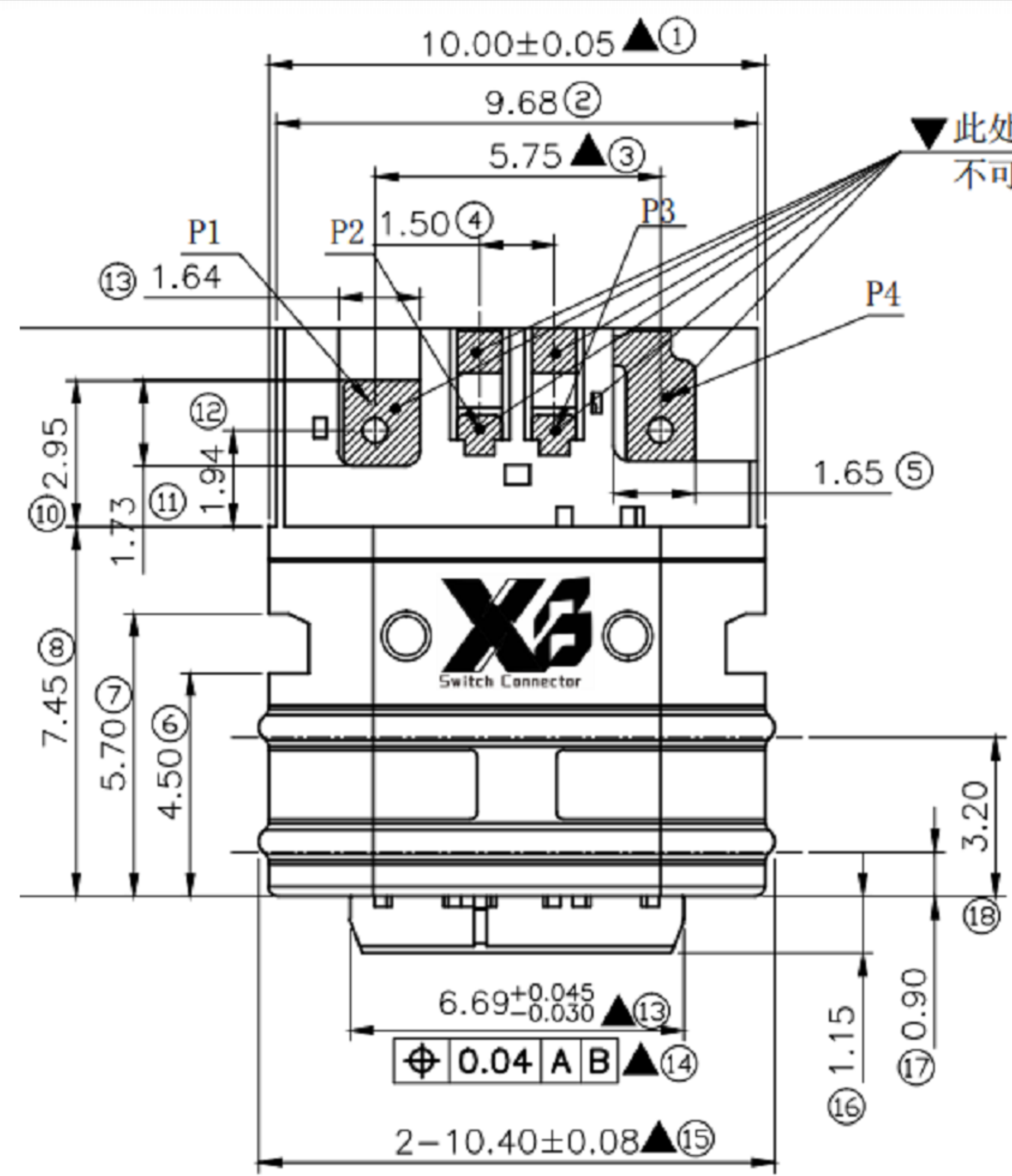
XB 东莞市溪榜电子有限公司
DONG GUAN XI BANG ELECTRONICS CO., LTD.

TOLERANCE UNLESS OTHERWISE STATED:
 Up to 5 ±0.2
 Above 5 ~ 15 ±0.3
 Above 15 ~ 30 ±0.4
 Above 30 ~ 50 ±0.5
 Angle ±0.3°
 3RD. ANGEL'S

DRAWN BY:	DATE	MAT'L	TITLE	CONNECTOR
Jack Lu	03/10/22			
CHECKED BY:	DATE	FINISH	MODLE	Soldered Type-c 6P Female PD Fast Charging With Resistance L=11.45mm
Jacky Chen	03/10/22			
APPROVED BY:	DATE	SCALE	DWG NO.	XB-USB-C-2011-FS
Tony Kao	03/10/22	1:1		
		SHEET NO.	PART NO.	
		1 of 1		

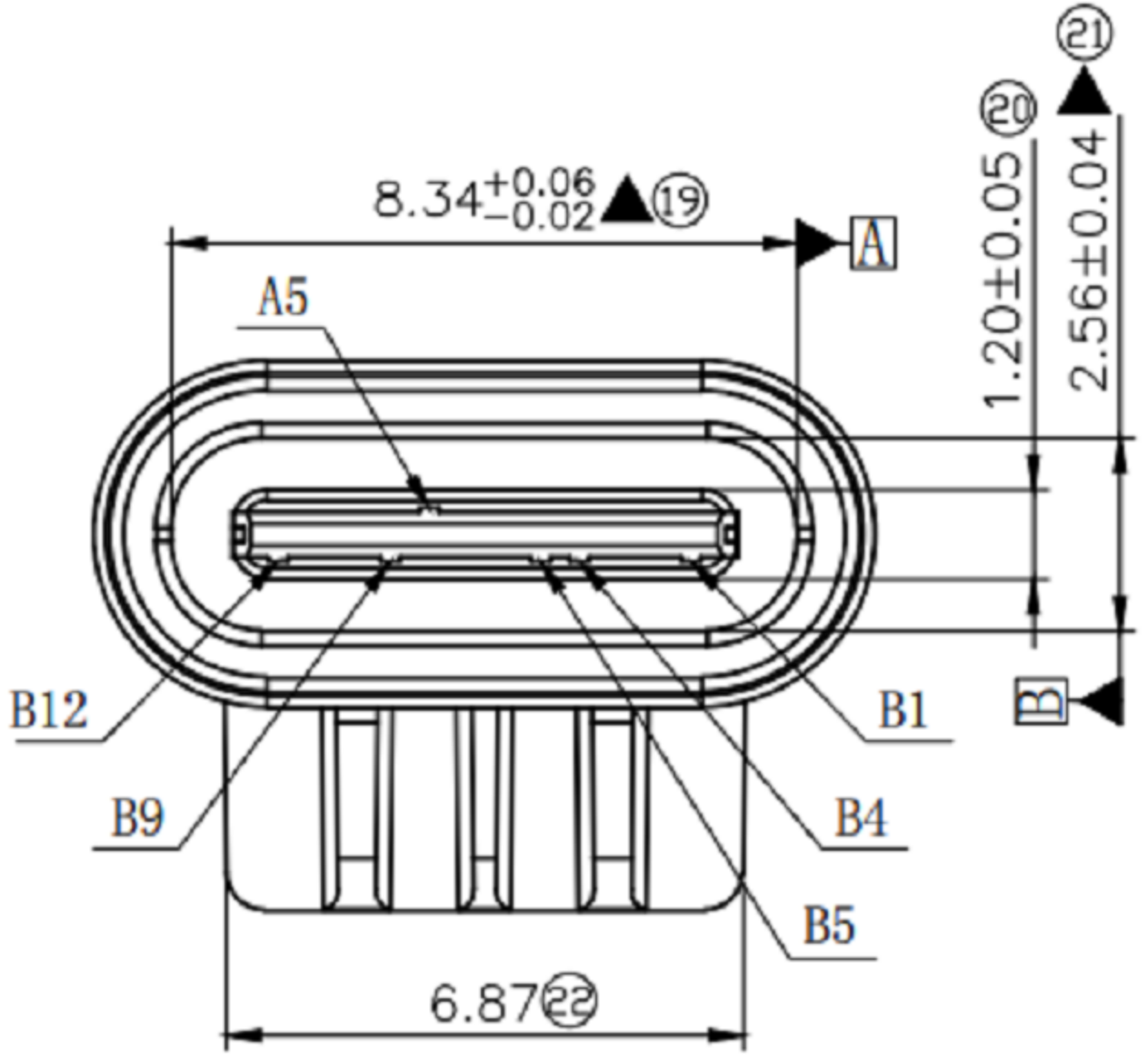
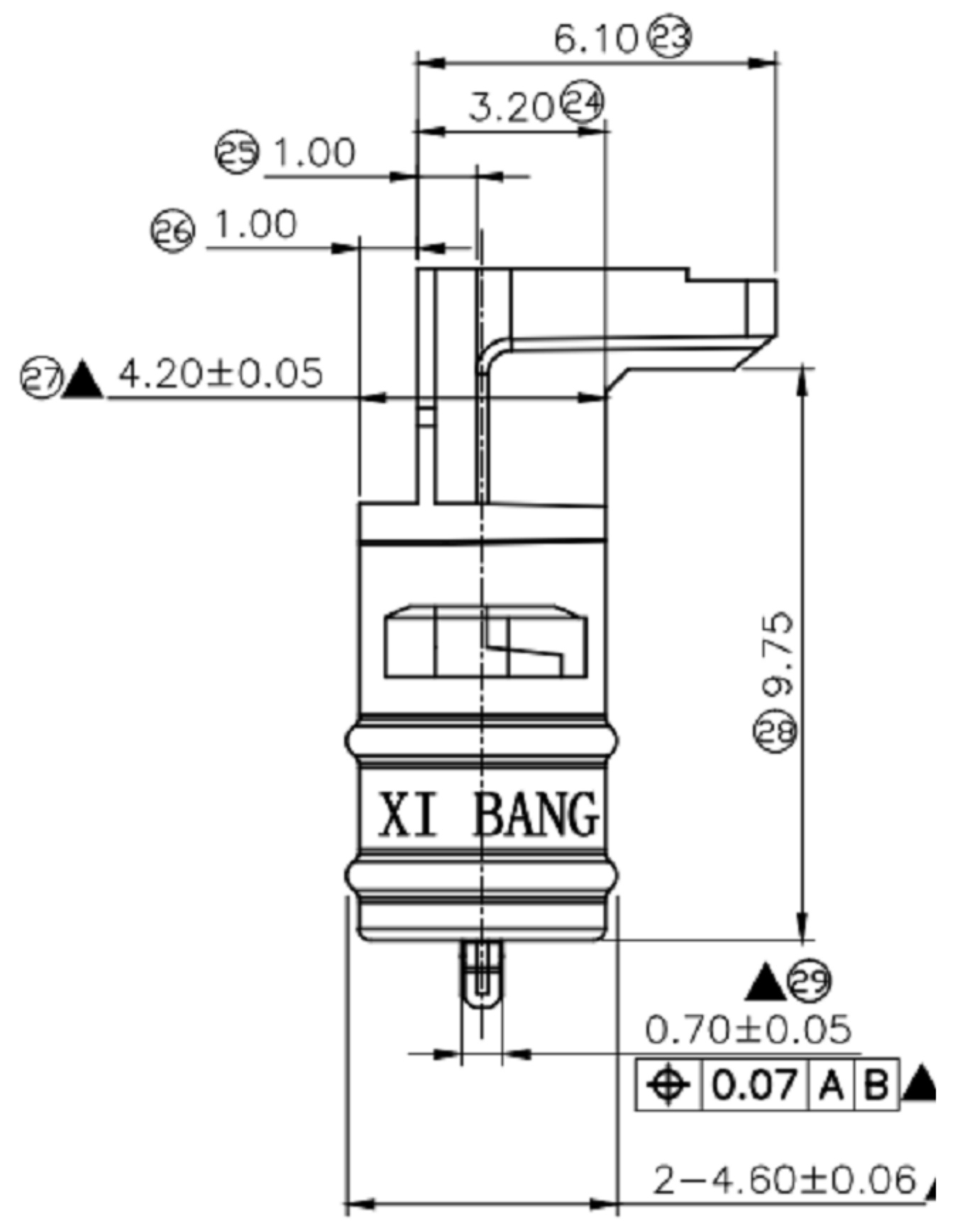
1	更新圖面	Jack	031022
ITEM NO.	DESCRIPTION	DRAWN	DATE

SIZE	A4
VER	R1



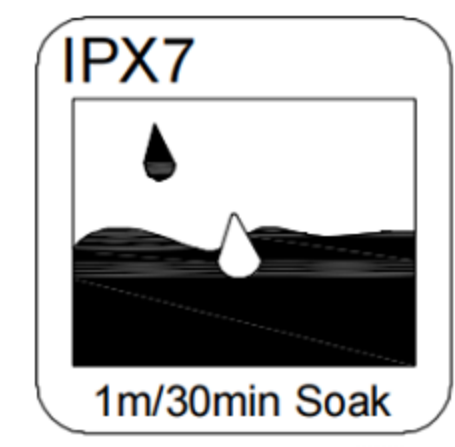
PIN DEFINE:

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A5	CC1	Configuration Channel	Second	B1	GND	Ground return	First
				B4	Vbus	Bus Power	First
				B5	CC2	Configuration Channel	Second
				B9	Vbus	Bus Power	First
				B12	GND	Ground return	First



CONTACT FIGURE:

CONN PIN	PCB PIN
B4, B9(VBUS)	P1(正极)
A5(CC) — 5.1kΩ电阻 — GND	P2
B5(CC) — 5.1kΩ电阻 — GND	P3
B1, B12(GND)	P4(负极)



IPX7



USB-C Specification:

1. Current rated: 3A on vbus
2. Withstanding voltage: 100V AC/minute
3. Contact resistance: 40mΩ Max
4. Insulation resistance: 100MΩ Min
5. Operating temperature: -40°C ~ +85°C
6. Mating force: 5N~20N
7. Unmating force: 8N~20N
8. Durability cycle: 10,000 cycles
9. Waterproof grade: IP-X7.

1. 本产品额定载流为3A，电压为30VAC。额定工作温度为-40°C~85°C。
2. 接触阻抗：使用四线测试法在最大20mV，100mA DC条件下测量端子阻值，要求≤40mΩ；
3. 绝缘阻抗：相邻端子间加500VDC，1min，绝缘阻抗应≥100MΩ；
4. 耐电压：施加100VAC（50Hz或60Hz）于相邻两端子之间，保持一分钟，无击穿，加压期间漏电流≤0.5mA；
5. 温升：5V DC电压条件下，施加3A电流，保持2小时，正负极温度上升不得超过30K；
6. 插拔力：以不大于12.5mm/min的速率进行测试，USB线Type-C接口的插入力≤20N，拔出力≥8N；
7. 寿命测试：以10~15次/min的速率，在不通电的情况下，使用飞科标准的Type-C公头进行1000次的人工插拔测试后，机械结构应无损坏，功能正常，
被测公母头间插入力≤20N，拔出力≥5N；
8. 防水等级为IPX7，要求测试气压20KPa，充气时间3s后测试泄露气压≤20Pa。
9. 恒温恒湿测试：温度为40±2°C，相对湿度90~95%，持续时间96小时，测试后产品无损坏；接触阻抗≤50mΩ；
10. 盐雾测试：按GB/T 2423.17盐雾测试标准，温度为（35±2）°C，溶液的PH值为6.5~7.2，盐溶液的浓度应为（5±1）%，试验周期为24h，检查外观不应有变形，
裂痕、裂纹、锈渍等不良。
11. 正极（V）：由Type-C的 B9&B4桥接相连； 负极（G）：由Type-C的 B1&B12桥接相连。
CC1（A5）：通过一个5.1kΩ（0603）的电阻与负极（G）桥接处焊接；
CC2（B5）：通过一个5.1kΩ（0603）的电阻与负极（G）桥接处焊接；
12. 灼热丝试验：对于基座绝缘材料部件，按GB/T 5169.11灼热丝基本试验方法须通过850 °C、750 °C试验要求，其中750 °C试验过程要求不能起燃（时间小于2s）。
13. 可焊性检查：焊接温度：360±5°C 焊接时间≤3s 焊透率≥90%
14. 导通性检查：不允许开路，短路，错位，间歇性导通等现象
15. 使用物料及制程符合“GP”文件对环境物料管理标准。
16. 重点尺寸标识 ▲

XI BANG 东莞市溪榜电子有限公司
DONG GUAN XI BANG ELECTRONICS CO., LTD.

TOLERANCE UNLESS OTHERWISE STATED: Up to 5 ±0.2, Above 5 ~ 15 ±0.3, Above 15 ~ 30 ±0.4, Above 30 ~ 50 ±0.5, Angle ±0.3°

3RD. ANGEL'S

UNITS MM

DRAWN BY:	DATE	MAT'L	TITLE	CONNECTOR
Jack Lu	03/10/22	FINISH	MODLE	TYPE-C 6PIN焊线式防水母座 带电阻
CHECKED BY:	DATE	SCALE	DWG NO.	XB-USB-C-2011-FS
Jacky Chen	03/10/22	SHEET NO.	PART NO.	
APPROVED BY:	DATE			
Tony Kao	03/10/22			

ITEM NO.	DESCRIPTION	DRAWN	DATE
1	更新圖面	Jack	031022