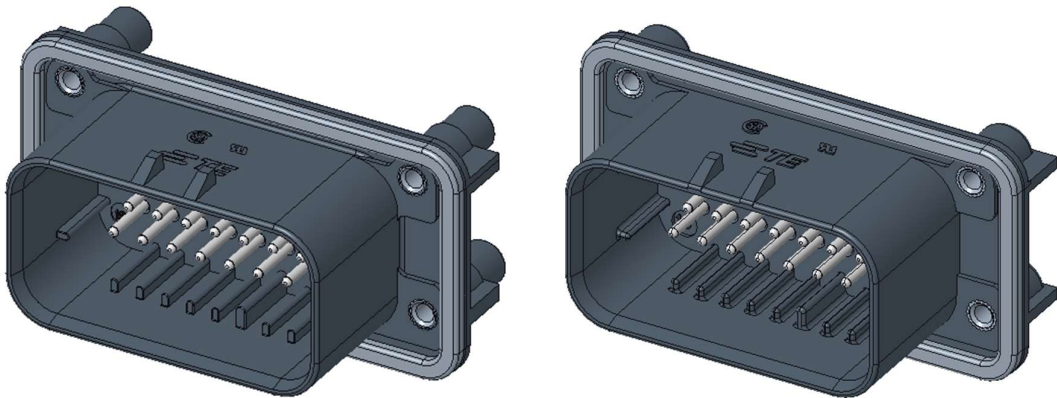




APPLICATION FOR AMPSEAL HEADER WITH BUSHING TYPE



				DRW: J. Gu DATE:29SEP2024	TE Connectivity		
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				APVD: Z. Zhou DATE: 29SEP2024	NO	REV	LOC
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REV	REVISION RECORD	APVD	DATE	1 OF 10			



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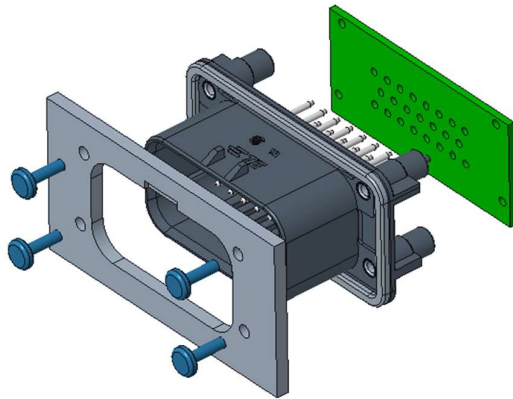
1. General

1. 综述

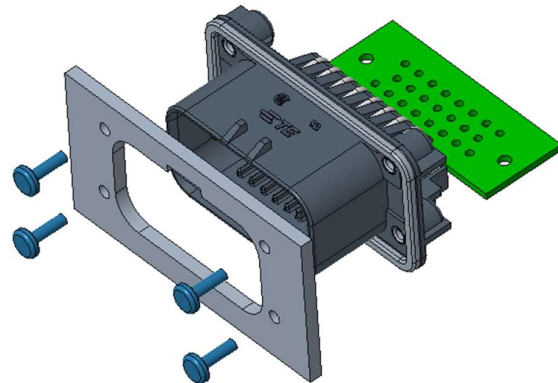
1.1 Purpose

1.1 目的

This specification includes the guidelines for mounting with PCB and panel.
本规范包括接插件同 PCB 和面板的安装。



180° header
直针产品



90° header
弯针产品

1.2 Customer Drawing

1.2 客户图纸

For dimensions, materials and surface finishes etc. see the current customer drawings.
有关尺寸，材料和表面镀层等，请参见当前的客户图纸。

1.3 Product Specification

1.3 产品规范

This application specification is valid for products specified in product specification 108-1329, which provides a description of the electrical and mechanical properties of multi-pos. connectors. Also see the current relevant contact systems product and application specifications.

该应用规范对产品规范 108-1329 中指定的产品有效，该规范提供了多位连接器的电气和机械性能的描述。另请参阅当前相关的端子系统产品和应用规范。

2. Product Description

2. 产品描述

2.1 P/N List for header connector and plug

2.1 板端接插件料号及对应的母端

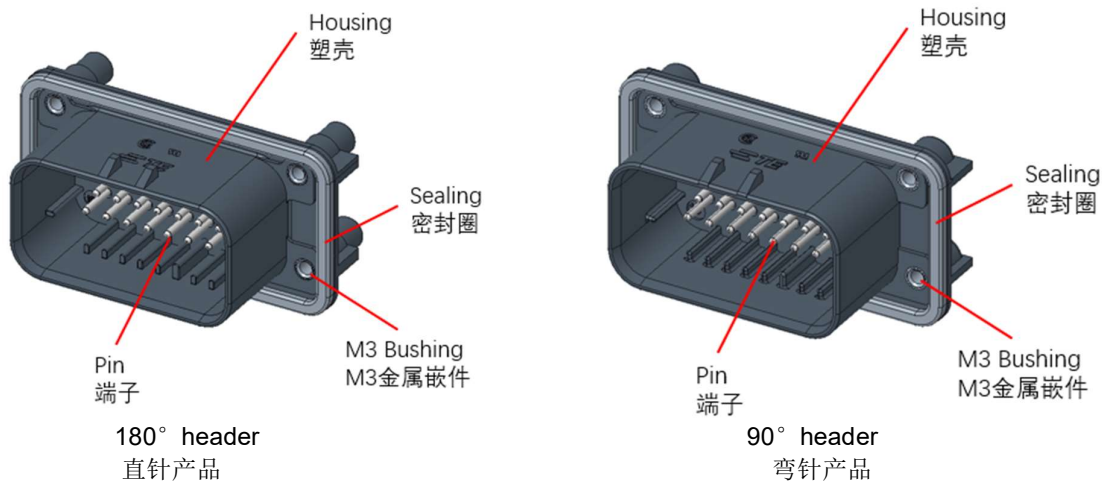
Item	Description	Header P/N	Plug P/N
1	8P 180°	2492561-1	776286-1
2	8P 90°	2489696-1	
3	14P 180°	2490748-1	776273-1
4	14P 90°	2492564-1	



5	23P 180°	2445465-1	770680-1
6	23P 90°	2489008-1	
7	35P 180°	2474615-1	776164-1
8	35P 90°	2489009-1	

2.2 Header connector

2.2 板端接插件



3. Application Description

3. 应用规范

3.1 Assembly with PCB

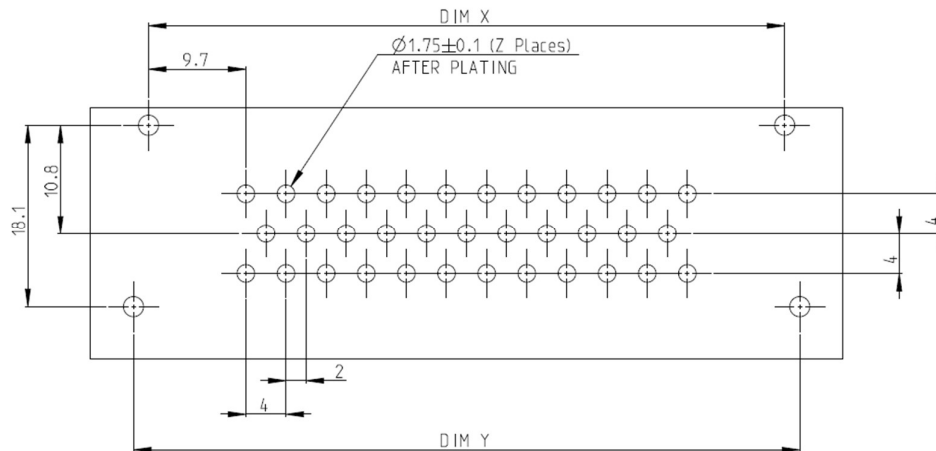
3.1 和 PCB 安装

3.1.1 PCB Layout

3.1.1 PCB 开孔尺寸

Refer to the PCB layout as below picture.
产品的 PCB 孔尺寸如下图

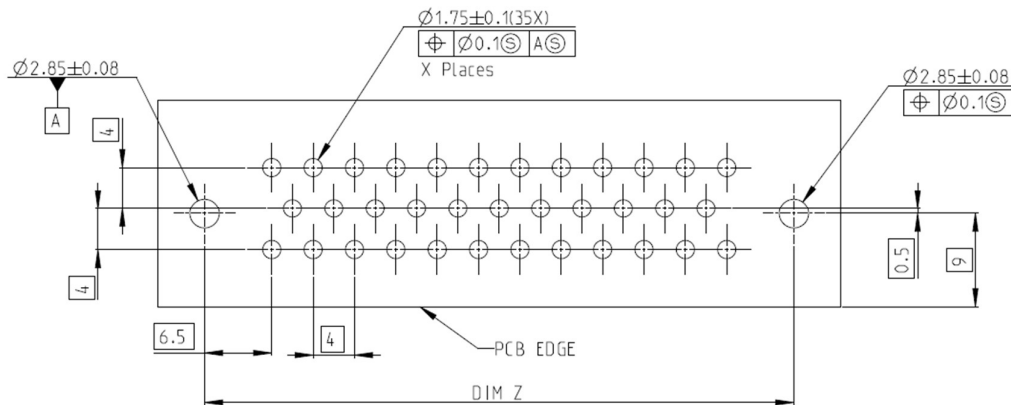
180° header
直针产品



The PCB thickness should be 1.57mm.
PCB 板厚度 1.57mm.

CONNECTOR SIZE	Dim X	Dim Y	Z Places
8 Position	27.4	30.4	8
14 Position	35.4	38.4	14
23 Position	47.4	50.4	23
35 Position	63.4	66.4	35

90° header
弯针产品



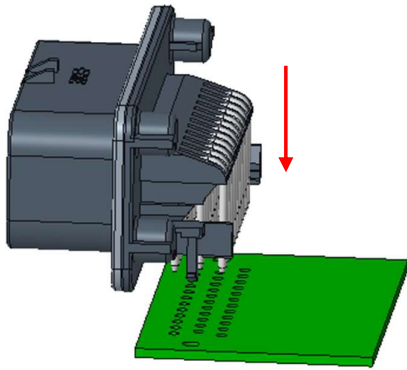
The PCB thickness should be 1.57mm.
PCB 板厚度 1.57mm.

CONNECTOR SIZE	X Places	Dim Z
8 Position	8	21
14 Position	14	29
23 Position	23	41
35 Position	35	57

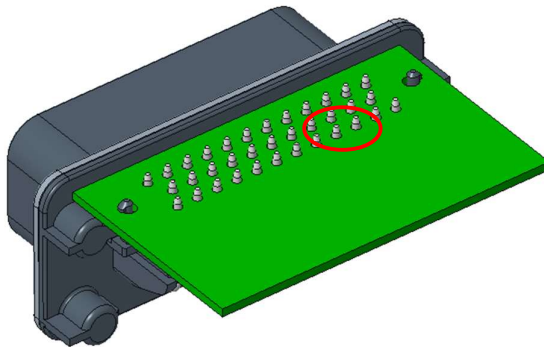
3.1.2 Note for assembly with PCB

3.1.2 和 PCB 安装的注意事项

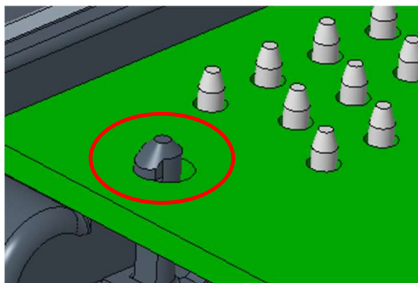
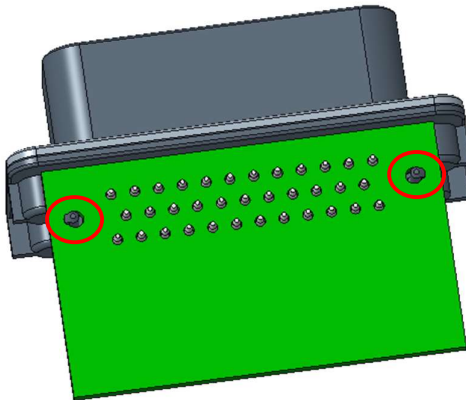
- a) It should be vertical mounting for header and PCB.
- a) 接插件和 PCB 板须垂直安装。



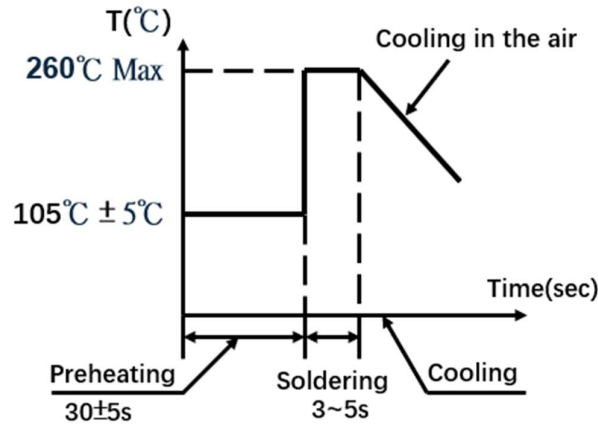
- b) Check that all the pins are protruding about 2mm from PCB.
b) 确认每个端子露出 PCB 2mm 左右。



- c) Check that both locking latches are locked with PCB.
c) 针对 90° 产品，确认两侧卡钩都扣到 PCB 上。



- d) The recommended wave solder temperature profile.
d) 建议波峰焊温度曲线。



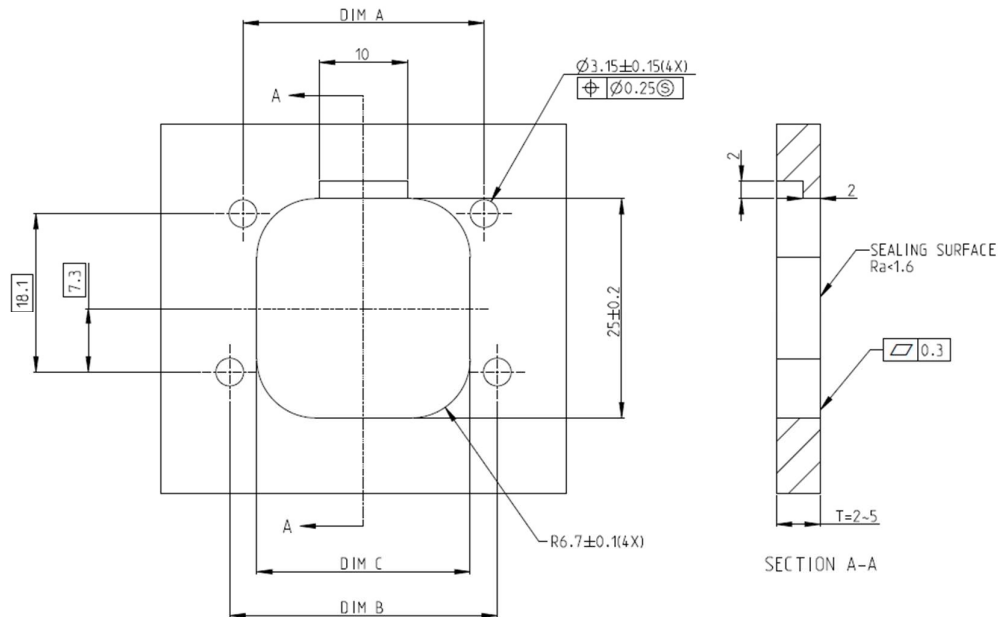
3.2 Assembly with panel

3.2 和面板安装

3.2.1 Panel layout

3.2.1 面板开孔尺寸

Refer to the panel layout as below picture.
面板的开孔尺寸如下图。

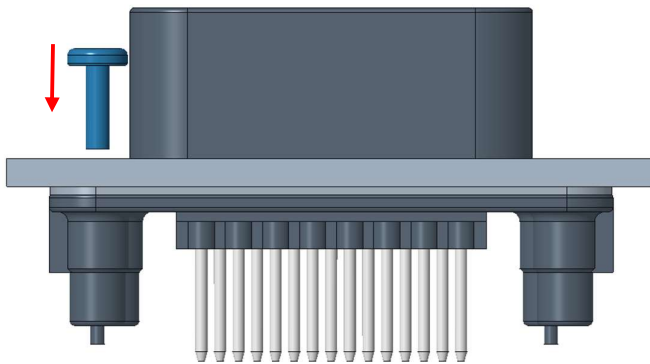


CONNECTOR SIZE	Dim A	Dim B	Dim C
8 Position	27.4	30.4	24.0~24.5
14 Position	35.4	38.4	32.0~32.5
23 Position	47.4	50.4	44.0~44.5
35 Position	63.4	66.4	60.0~60.5

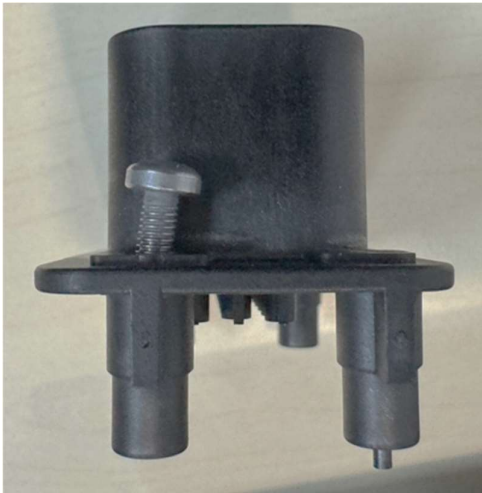
3.2.2 Suggest method to assembly screw

3.2.2 建议螺钉安装方式

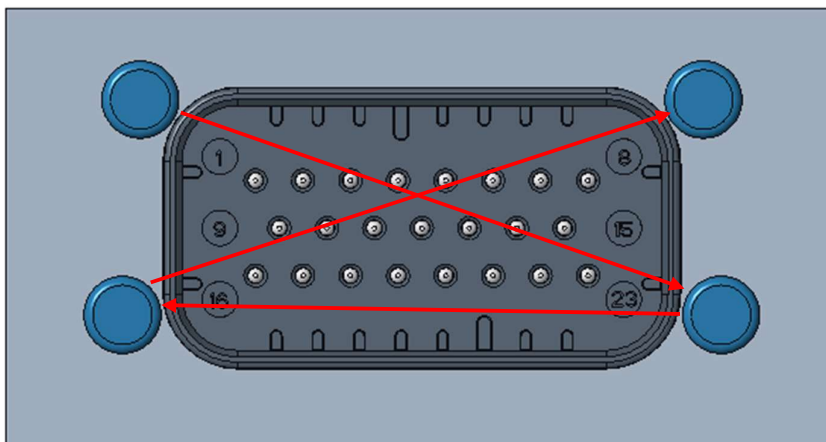
- The metric M3 screws must be installed vertically.
- M3 螺钉须垂直安装。



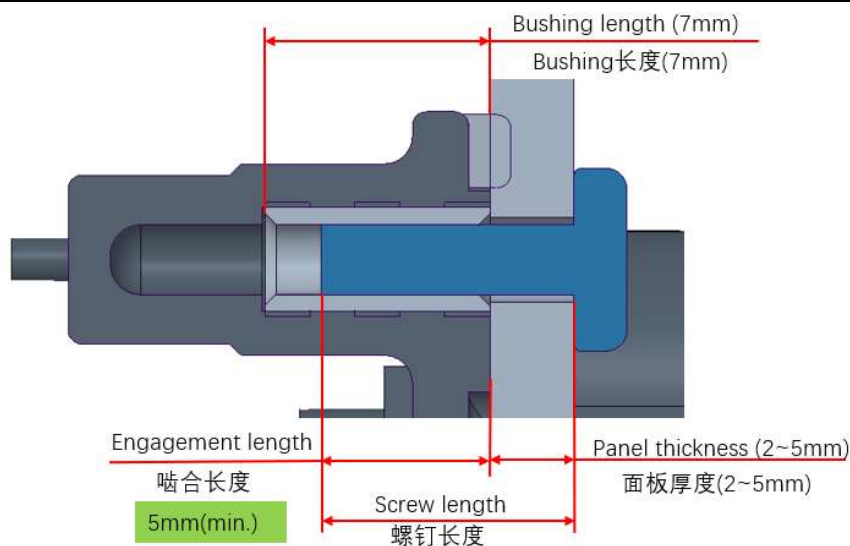
If installed not vertically, the screw teeth of the insert will be damaged. There will be insert crack issue.
如果不垂直，嵌件螺牙会损伤，导致嵌件开裂不良。



- b) Torque the 4 screws using a cross pattern.
b) 4个螺钉须对角线安装。



- c) The screw length depends on the panel thickness. Suggest that the engagement length for screw and metal insert of header should be 5mm(Min.).
c) 螺钉长度和面板厚度有关系。建议螺钉和插件的嵌件啮合长度至少 5mm。



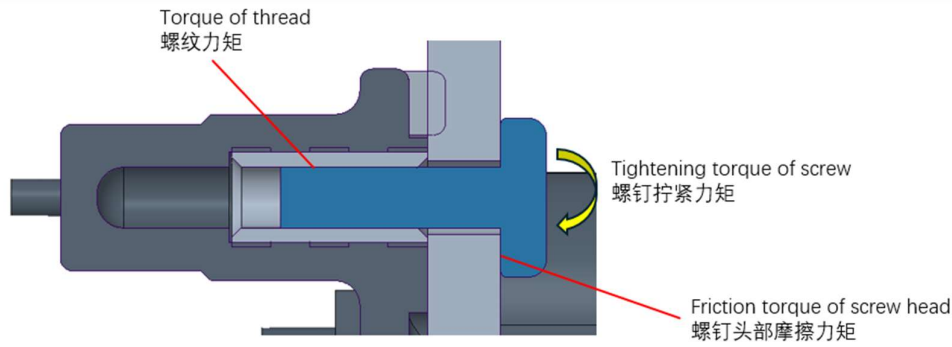
- d) The screw length can't be too long. There will be crack for housing.
d) 螺钉不能太长，否则会将塑壳顶裂。



- e) The screw mounting torque should be 0.6~0.8Nm. According to screw type and assembly process, customers should verify the actual mounting torque.
e) 螺钉安装扭矩建议 0.6~0.8Nm. 根据螺钉形状及安装工艺，客户须具体确认安装扭矩。

Tightening torque of screw depends on the friction coefficient of screw, diameter of screw head, engagement length. Customer should confirm the actual conditions.
拧紧力矩取决于螺钉表面的摩擦系数/头部直径/啮合长度等因素，客户须确认实际条件。

Tightening torque of screw = torque of thread + friction torque of screw header
螺钉拧紧力矩=螺纹力矩+螺钉头部摩擦力矩



The torque of thread depends on the friction of screw teeth and engagement length.

螺纹力矩取决于螺牙部位摩擦系数和啮合长度。

The friction torque of screw header depends on the diameter of screw head and the friction for screw header and panel.

螺钉头部摩擦力矩取决于螺钉头部直径和螺钉与面板的摩擦系数。

