



浙江珠城科技股份有限公司

ZHEJIANG ZUCH TECHNOLOGY CO., LTD

产品系列

2015 系列

文件名称
Document name

产品应用规格书
Product Application Specification

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2015 系列 (2015 Series)

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1. 简介 Introduction

本应用规格书介绍了我司 2015 系列产品的产品型号，产品安装基准，端子的适用导线和压接指导，组装指导。

This specification covers the requirements for application of 2015 series , include part No., product installation basis, applicable conductor and crimping instructions for terminals,and assembly guidance.

2. 产品描述 Product Description

按本公司一般产品叫法命名：

全套连接器的插入端称之为公端或插头，被插入端称之为母端或者针座或插座，公端的主体塑件称之为孔座，公端内的端子称之为簧端子，母端的主体塑件称之为母座，母端内的端子称之为针端子，两端的防脱插销称之为锁片（两端锁片不一样时，公端对应的锁片称之为公锁片，母端对应的锁片称之为母锁片）。按此名称对应产品型号如下：

Product Naming:

Male side means the inserting side of the connector or plug; female side means the inserted side or header side. Major housing of the male side is named plug housing, and the mating terminal is named socket terminal. Major housing of the female side is named receptacle housing, and the mating terminal is named pin terminal, and the terminal position assurance for both housings are named retainer. (If the retainers for both side housing are different, the one for plug housing is named male retainer, and the other one for receptacle housing is named female retainer.)

连接器名称 Connector name	部件名称 Part Name	产品型号 Part No.	材质 Material	备注 Notes
插头 Plug	孔座 Plug housing	AP2015*-nY/****	PA66	单排 Single row
	簧端子 Socket terminal	TP2012J-1801	铜合金 Copper alloy	镀锡 Plating Sn
插座 Receptacle	母座 Receptacle housing	AR2015*-nY/****	PA66	/
	针端子 Pin terminal	TR2012J-1801	铜合金 Copper alloy	镀锡 Plating Sn
板端针座 PCB header	卧式针座 Side entry header	HW2015*-nQA/****	PA66+brass+ 硅橡胶 Silastic	/
/	盲堵 Blind plug	HS2015J-1D/0201	PA66	红色 Red



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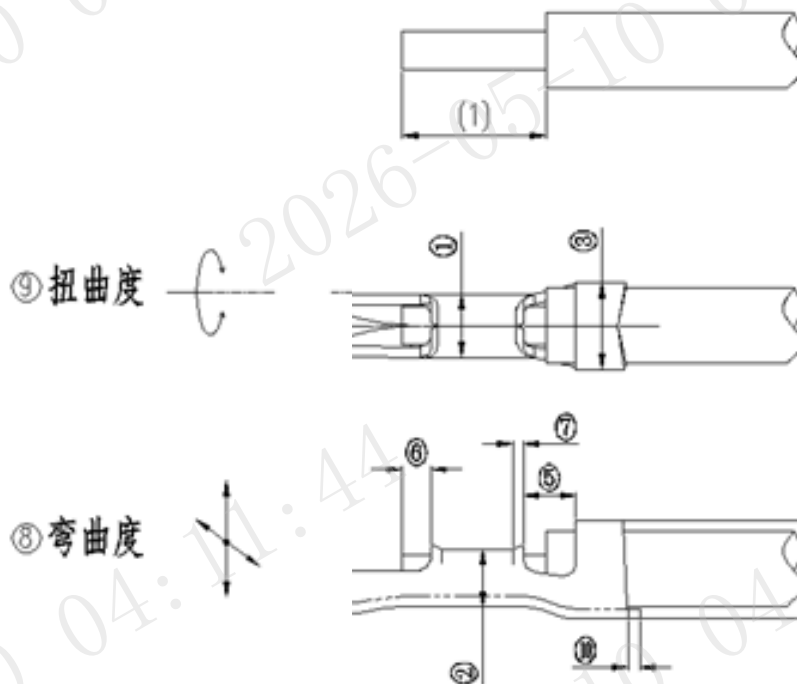
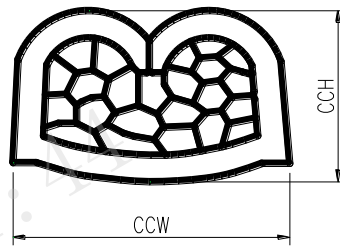
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3. 端子适用导线 Applicable conductor of terminal

规格型号 Part No.	导线规格 Wire range	导体截面面积 Cross-sectional area	线皮直径 Insulation diameter
TP2012J-1801	22~24#AWG	0.2mm ² ~ 0.33mm ²	Φ 1.6mm MAX.
TR2012J-1801	22~24#AWG		Φ 1.6mm MAX

4. 产品压接指导 Product crimping guidance

4.1 压接要求 Crimping requirements





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序号 No.	压接检查要素 Crimping inspection elements	技术要求 Requirement
(1)	导线剥线长度 Strip length	3.6 ± 0.1mm
①	线芯压接宽度 (CCW) Conductor crimping width	见表 1 (仅供参考) See table 1 (For reference only)
②	线芯压接高度 (CCH) Conductor crimping height	
③	线皮的压接宽度 (ICW) Insulation crimping width	
④	线皮的压接高度 (ICH) Insulation crimping height	
⑤	压线脚衔接段 Transition Area	线芯和线皮需同时可见 Conductors and wire insulation both visible in transition area.
⑥	导线末端漏出长度 Wire Brush	0.5 ± 0.2mm
⑦	喇叭口 Rear Bellmouth	喇叭口必须可见且不可压伤线芯 The rear bell mouth must be visible and cannot crush the wire core
⑧	压接后弯曲度 Straightness	四向弯曲度 ≤ 2° Four-way bending ≤ 2°
⑨	压接后扭曲度 Twist and Roll	≤ 3°
⑩	余料长度 Surplus length	0-0.2mm

Table 1:

单位 Unit: mm

产品型号 New part No.	线芯段压接 宽度 CCW	线芯段压接高度 CCH (公差 tolerance: ±0.03)				线皮段的 压接宽度 ICW	线皮段的压接高度 ICH (公差: +0.1/-0)			
		22# AWG	24# AWG	26# AWG	28# AWG		22# AWG	24# AWG	26# AWG	28# AWG
TP2012J-1n01	1.4 ± 0.1/-0	0.9	0.8	0.7	/	1.6	1.8	1.7	1.6	/
TR2012J-1n01		0.9	0.8	0.7	/	MAX.	1.8	1.7	1.6	/

备注: 此压接标准仅供客户参考用, 实际的压接高度取决于客户使用的压接模具和压接刀片。

Remarks: This crimp standard is for customer reference only. The actual crimp height depends on the crimp die and crimp blade used by customer.

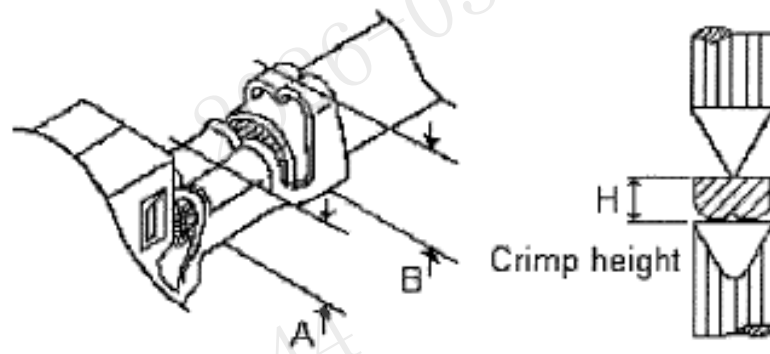
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4.2 检测方法 Check method

4.2.1 尺寸检查:如图一, A 为线芯段测量位置, B 为线皮段测量位置。

4.2.1 Dimension inspection: as shown in Figure 1, A is the measurement position of core section and B is the measurement position of insulation section.



图一 Figure 1

测量 A 尺寸时, 应以千分尺测量, 测量区域为压接形状的正中位置, 以保证测量值的准确性, 如图一右侧视图所示, 测量结果应符合“表 1”。

测量 B 尺寸时, 可用游标卡尺测量, 外形尺寸符合“表 1”即可。

Use a micro caliper to measure dimension A, to assure the accuracy of the conductor crimping height measurement, measure the crimp height at the center of barrel as show in the right of Figure 1, the measurement shall be in compliance with table 1.

A vernier caliper to measure dimension B, the measurement shall be in compliance with table 1.

4.2.2 剖面分析 Crimping cross section analysis.

线芯段要求:

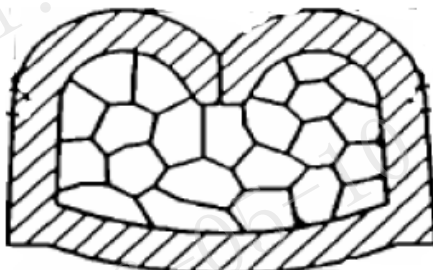
端子在制作破面时, 应注意避开端子本身的浅槽, 应垂直压线脚轴线。

Wire conductor requirement after crimping:

When making the cross section, make sure to keep away from the serration area of the terminal,



and the cross section shall be vertical to the axis.



1. 压接剖面应无孔隙，导线芯数等于压接前的芯数，每根线芯均应发生变形；
2. 不可有孤岛现象。

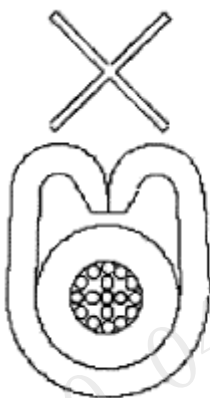
1. Cross section must be without hole, the number of cored wires shall be same to the quantity before the crimping, and the every cored wire shall be deformed after crimping.
2. Isolated island phenomenon is not allowed.

线皮段要求：

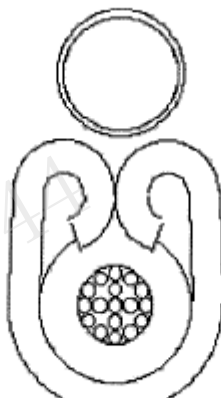
如下图所示,端子压线脚应固定导线，且不可刺入线皮接触芯线。

Wire insulation requirement after crimping:

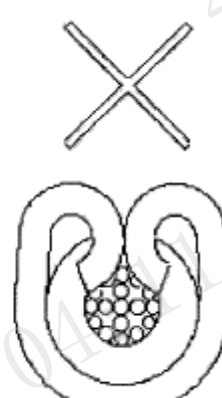
The insulation barrel shall hold the lead wire securely without thrust into the wire insulation and damage the cored wire.



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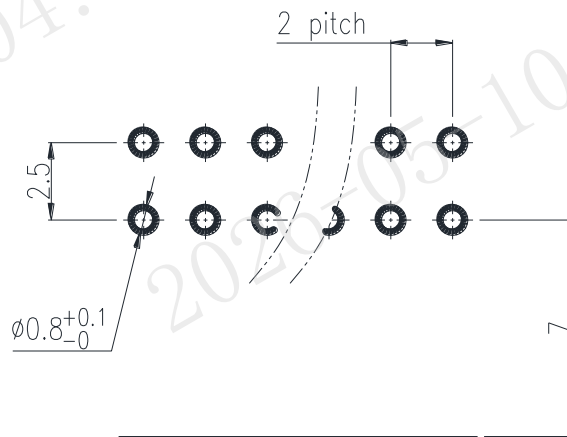
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5. 产品安装基准 Installation reference

5.1 卧式针座安装基准 Installation reference of side entry header



5.2 插座安装基准 Installation reference of receptacle



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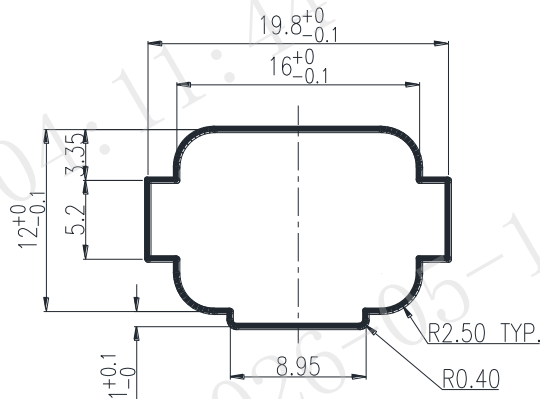
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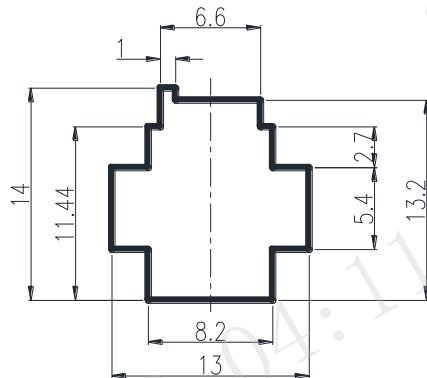
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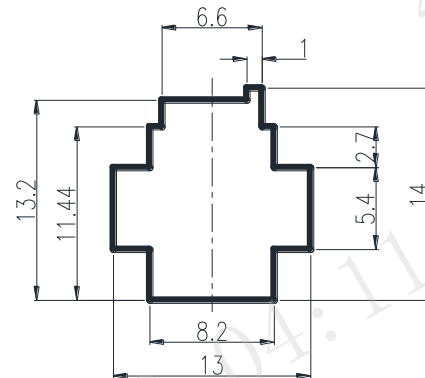
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AR2015A-12Y 安装基准



AR2015L-4Y 安装基准



AR2015R-4Y 安装基准

6. 产品组装指导 Product assembly guidance

6.1 组装端子时，端子压线脚包线面应和连接器卡扣面相同，如下图所示。装入过程端子不应割破密封堵。不用的孔位需用盲堵封堵

The wrapping surface of the terminal crimping pin should be the same as the connector buckle surface when assembling the terminal, as shown in the following figure. the terminal should not slash the sealing plug.



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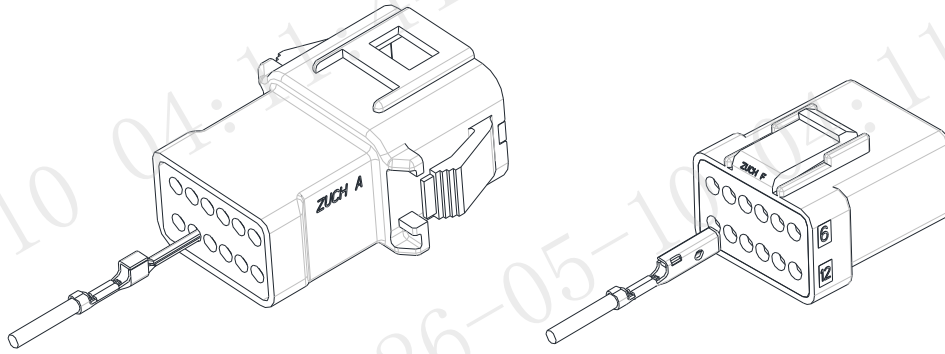
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6.2 不装端子的孔需用盲堵进行封堵。

Holes without terminals need to be blocked with blind plugs.

