



产品规格书

PRODUCT SPECIFICATION

产品描述: TR4.8×0.5F 旗形快速接插器

Product Description: TR4.8×0.5F Flag Type Receptacle

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 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.	<u>制定 Edit:</u> 杨 培 2019.01.23	<u>产品名称 Product Name:</u> TR4.8×0.5F
	<u>审核 Check:</u> 王国英 2019.01.23	<u>编号 Document No.:</u> PS3916
	<u>批准 Approval:</u> 刘冬旭 2019.01.23	<u>版本 REVISION:</u> 3

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1. 更改履历 Change History

序号 No.:	版本号 Version No.	更改前描述 Description Before Modification	更改后描述 Description After Modification	日期 Date
1	1	旧版规格书 PS0955/PS0564	新版规格书 PS3916	2016.08.19
2	2	/	更新导线对应抗张强度	2018.3.26
3	3	/	更改图纸商标 LOGO	2019.01.23
4				
5				

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2. 适用范围 Scope

本产品规格书适用于浙江合兴电子元件有限公司生产的快速连接端子，产品名称：**TR4.8×0.5F**。

This product specification covers the requirement for quick-connect terminal, which is designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: **TR4.8×0.5F**.

3. 产品描述 Product Description

TR4.8×0.5F 系列产品为家电连接器产品，产品部件组成如下：

The TR4.8×0.5F series connector designed for home appliances connection. Part checklist as following form:

Name	Part name	Notes
端子 Flag Type Receptacle	TR4.8×0.5F	Brass, Tin over nickel plated

4. 相关标准 Related Standards

以下参考文件是本规格书的一个组成部份。若本规格书中的要求与产品图纸发生冲突，则产品图中的要求为优先；若本规格书中的要求与参考文件中的要求冲突，则本规格书为优先。

The following documents form a part of this specification. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

GB/T 2421 电工电子产品环境试验 第一部分 总则
Testing Method for Environmental of Electrical Connectors Class 1: General Principles

GB/T 2423 电工电子产品环境试验方法
Testing Method for Environmental of Electrical Connectors

GB/T 2424 电工电子产品环境试验导则
Testing Method for Environmental of Electrical Connectors

GB/T 5095 电子设备用机电元件基本试验规程及测量方法
Testing procedure/Method for components of electric equipment

产品符合合兴企标 Q/HX J1150001 《产品及所用材料的环保要求》 I 类或顾客要求。

The connector should comply with CWB standard Q/HX J1150001 Class I or customer's requests.

5.参数范围 Parameter Ratings:

额定电流 Rated Current	AWG 20# 5.5A	AWG 18# 7A
额定电压 Rated Voltage	250V [AC(有效值 rms)/DC]	
使用温度范围 Operating temperature range	-25℃~+85℃(Include temperature rise)	
适用线型 Applicable wires	Wire Size: AWG 20~AWG 18 (0.5174 mm ² -0.8226 mm ²) Insulation Diameter: 1.8mm-2.05mm	

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6. 产品性能 Performance

6.1 机械性能 Mechanical

序号 No.	项 目 Item	测试条件 Test Condition	规 格 Requirement		
6.1.1	外观 Appearance	目测 Checking by eye 视力: 1.0 以上 Eyesight: > 1.0 照明: (200~300) lx Lamp: (200~300) lx 目测距离: (0.3~0.5) m Space: (0.3~0.5) m GB/T 5095.1 Method 1a	金属件表面无锈蚀、氧化、无明显的机械损伤及电镀层脱落等缺陷。 Metal part: bright and even surface without rust, oxide, fog and obvious physical damage, etc.		
6.1.2	端子的插入力 与拔出力 Insertion force and Retention Force for flag type receptacle	固定插片(4.8×0.5)和测力计, 在连接器轴线方向插入和拔出; 速度不大于 25 ± 3 mm/min Axial Insert and withdraw force on the tab in the flag type receptacle at a rate of 25 ± 3 mm per minute. GB/T 5095.8 Method 15a / EIA-364-29B	首次插入力 (First Insertion) MAX	首次拔出力 (First Retention) MIN	六次拔出力 (6th Retention) MIN
			67N	13N	9N
6.1.3	压着部位抗张 强度 Crimping Pull Out Force	在试验装置夹头中固定试验样品, 在连接的轴线方向施加张力, 速度25±3mm/min; Fix the crimped terminal, Axial pull out force on the flag type receptacle in the wire at a rate less than 25±3 mm/ min. GB/T5095.8 Method 16d / EIA-364-08B	AWG 20#: 59.5N Min. AWG 18#: 89N Min.		

6.2 电气性能 Electrical

6.2.1	接触电阻 Low Level Contact Resistance	插入 4.8×0.5 插片,用小功率电路进行测试 Insert and withdraw standard tab (4.8×0.5) and measure by dry circuit. GB/T 5095.2 Method 2a / EIA-364-23B	0.01 Ω Max. (Initial) 0.02 Ω Max. (Final)		
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6.2.2	温升 Temperature Rise	插入 4.8×0.5 插片，通以对应导线的最大允许电流，测温度的差值 Mated connectors and measure the temperature rise of flag type receptacle when the maximum AC rated current is passed. GB/T 5095.3 Method 5a / EIA-364-70B		Δ30℃ Max.	
6.3 环境性能 Environmental					
序号 No.	项 目 Item	测试条件 Test Condition		规 格 Requirement	
6.3.1	耐高温 Heat Resistance	把试验样件放在 105±2℃ 的空气中放置 96 小时，再回到室温中放置 1-2 小时测定 Make terminal be exposed to the condition of 105±2℃ for 96 hours. Recovery time 1~2 hours GB/T 5095.6 Method 11i / EIA-364-17B		外观：无损伤（参照6.1.1） Appearance: No damage.(refer to 6.1.1) 接触电阻：0.02Ω Max LLCR：0.02Ω Max	
6.3.2	耐低温 Cold Resistance	把试验样件放在-40±2℃ 的空气中放置 96 小时，再回到室温中放置 1-2 小时测定 Make terminal be exposed to the condition of -40±2℃ for 96 hours. Recovery time 1~2 hours GB/T 5095.6 Method 11j / EIA-364-17B		外观：无损伤（参照6.1.1） Appearance: No damage.(refer to 6.1.1) 接触电阻：0.02Ω Max LLCR：0.02Ω Max	
6.3.3	盐雾 Salt Spray	把试验样品从试验箱顶悬挂下来，采用浓度为 (5±1)%(质量百分比)的氯化钠溶液，在(35±2)℃ 温度下连续雾化 48h,试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常湿条件下恢复(1~2)h 48 hours spray, at temp 35+/-2℃, Salt NaCl mist (5±1)% After test wash parts and return to room ambient for (1~2)h hours GB/T 5095.6 Method 11f /EIA-364-26B		外观：无损伤(五金件应无露出底金属的严重锈蚀。) Appearance: No Damage (No erosion with material exposed. And with plating material.) 接触电阻：0.02Ω Max LLCR：0.02Ω Max	
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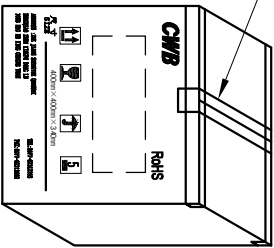
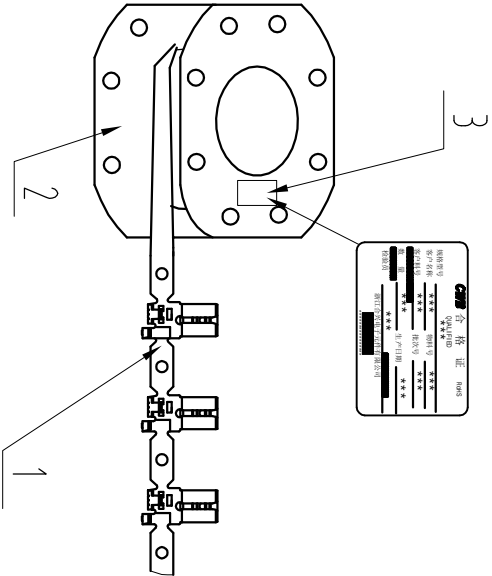
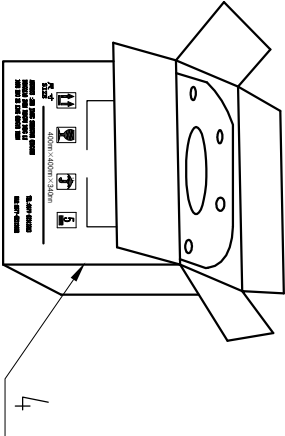
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7. 测试分组 Test Sequences (Samples: 5PCS)

测试组 GROUP NUMBER	A	B	C	D	E	F	G
外观 Appearance	1	1	1	1	1, 5	1	1
端子的插入力与拔出力 Insertion force and Retention Force for terminal	2						
压着部位抗张强度 Crimping Pull Out Force		2					
接触电阻 Low Level Contact Resistance			2		2, 4	2, 4	2, 4
温升 Temperature Rise				2			
耐高温 Heat Resistance					3		
耐低温 Cold Resistance						3	
盐雾 Salt Spray							3

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General Tolerance		Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
		0~3	+0.13	1	H8	To update the content	Yang Pei	2019.01.23
		3~18	±0.16					
		18~50	±0.31					
		≥50	±0.55					



5	Packing box	1000pcs/box
4	Guimed tape	
3	Certificate	
2	Packing reel	
1	TR4.8x0.5F flug type receptacle	5000pcs/reel

Number	Designation	Remarks
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CUSTOMER DRAWING

CUSTOMER DRAWING						Title: Packaging Specification of 4.8x0.5 flug type receptacle	
Drawn	LiDm	2016.08.19	Unit	Scale	Size	Edition	Part No.: TR4.8x0.5F
Checked	Guoying Wang	2016.08.23	mm	/	A4	B	
Approved	Dongxuli Liu	2016.08.23	Sheet No.	1 of 1			
 浙江金兴电子科技有限公司 CMB Micro-electronics (Zhejiang) Co., Ltd.							Document No.: BZ-DWG-00180
							Specification No.: PS3916