



产品规格书

Product Specification

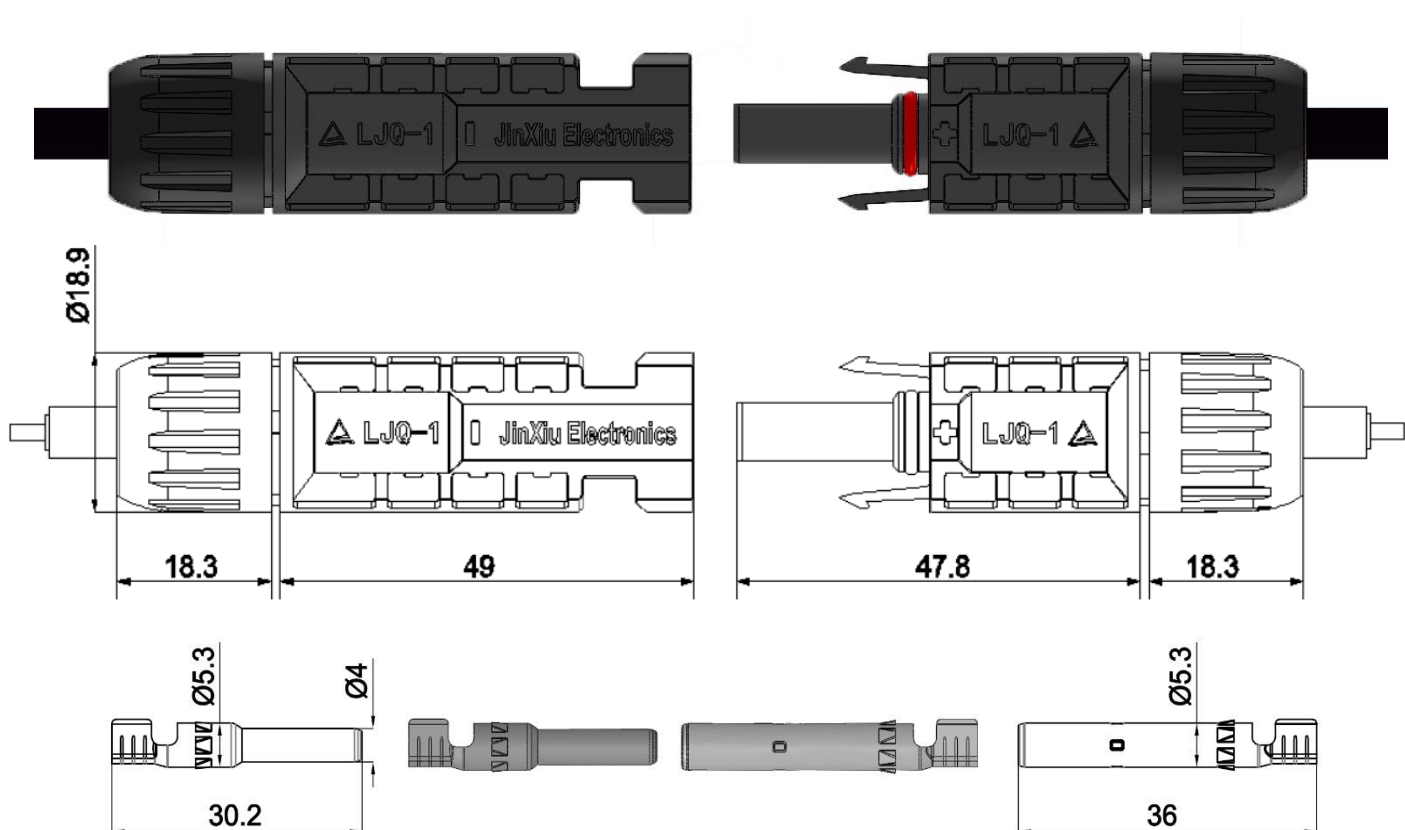
产品名称：LJQ-1

Product Name: LJQ-1

供应商名称：台州锦绣电子科技有限公司

Vendor Name: Taizhou JinXiu Electrical Science & Technology Co.,Ltd.

1.产品外观及尺寸(Product appearance and size)



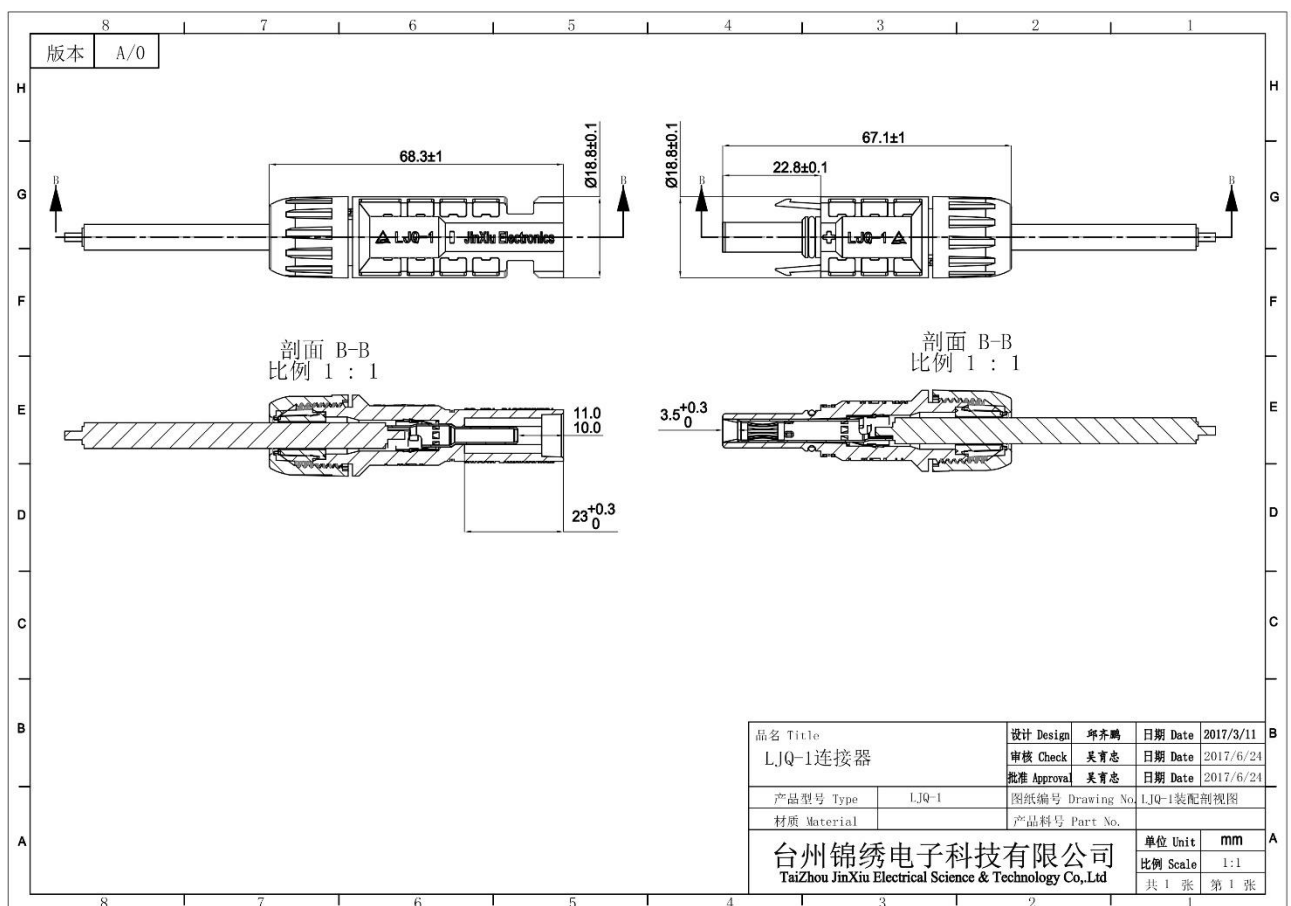
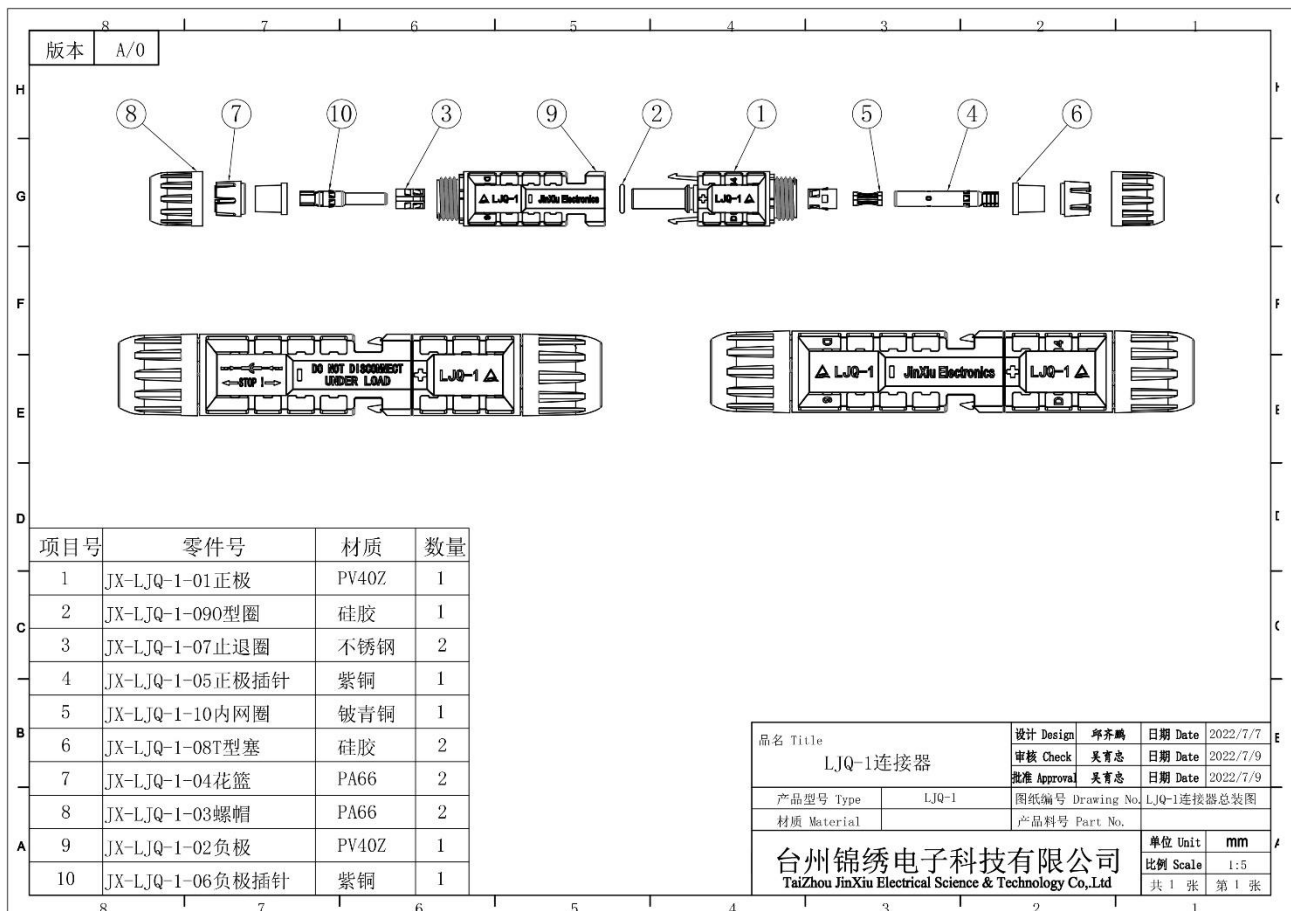


2.技术参数(Technical data)

参数 Parameter	规格 SPEC	备注 Remarks
外型尺寸 Size	L112*W 18.9*H18.9mm	After Coupling
额定电压 Rated voltage	1500V DC (TUV/UL)	
额定电流 Rated current	35A	
额定脉冲电压 Rated impulse voltage	16kV	
接触电阻 Contact resistance	$\leq 0.30 \text{ m}\Omega$	
安全等级 Safety class	Class II	
使用环境范围 Use environment	Temperature: -40℃ ~+85℃ Humidity: $\leq 95\%$	
防护等级 Protection class	IP68	
阻燃等级 Anti-flaming level	UL94-V0	仅指塑料材质部分 Only for the plastic parts
污染等级 Pollution Class	Class II	
过电压等级 Over voltage level	Class III	
适用线缆外径 Suitable for cable outside diameter	$\phi 5.5\text{mm} \leq OD \leq \phi 6.6\text{mm}$	
TUV 认证标准 TUV Standard	IEC 62852:2014 + Amd.1:2020; EN 62852:2015 + Amd.1:2020	



3.工程图纸(Engineering drawing)





4.连接器 BOM 清单(BOM of Connector)

产品名称 Product Name		连接器 Connector		
产品型号 Type Name		LJQ-1		
序号 Item	名称 Name	材质 Material	数量 Quantity	备注 Remark
1	螺母 Nut	PA66	2 pcs	
2	花篮 Grip	PA66	2 pcs	
3	T 型圈 T ring	硅橡胶 Silica gel	2 pcs	
4	插针 Minus terminal	镀锡铜 Copper,tin plated	1 pcs	
5	止退圈 Check ring	不锈钢 Stainless steel	2 pcs	
6	负极 Male	PV40Z	1 pcs	
7	O 型圈 O ring	硅橡胶 Silica gel	1 pcs	
8	正极 Female	PV40Z	1 pcs	
9	插套 Plus terminal	镀锡铜 Copper,tin plated	1 pcs	

5.安全说明（Safety Instructions）

（1）该产品应由经过专家培训的、具有相关安全应用规范的专业人员安装。

The product should be assembled by people who professionally trained and aware of



related safety code.

（2）推荐使用公司指定的零部件和工具。锦绣不会对任何因使用其他工具所造成的问题负责。

A set of specific components and tools is recommended to assemble the connectors. JINXIU shall take no responsibility whatsoever for any problems caused by unspecified components or tools.

（3）对于自行装配，一定要遵照指定的安装说明，否则本公司不能保证产品的安全性和技术参数的一致性，对于产品不要随意修改。

Do not deviate from the preparation and assembly steps described here. Do not modify the product in any way. JINXIU shall give no guarantee as to safety or conformity with the technical parameter in the case of non-observance of JINXIU's manual or instructions.

（4）连接器不能与附录中标记为“不兼容”的物品共存。

Products can not be stored, transferred or used in the environment that have the chemicals listed in Appendix Form 1 and labeled by “incompatible”

（5）不要过分承压、撞击、污染产品。

Do not over pressure, impact or pollute the products. JINXIU shall take no responsibility whatsoever for any broken, shape change and other problems caused by over pressing, impact or pollution.

（6）产品储存时间不得超过 2 年。

The maximum storage time for this product is 2 years. Please assemble the product to end products within 2 years.

（7）产品不得用于非光伏系统或非光伏环境。

The connectors cannot be used or operated under water or the rain.

（8）未插合状态的线缆连接器必须放置在少灰少水的环境中，并带上密封盖，以防污染后不能使用。

The unplugged connectors should be placed away from dust, water and pollution, and be protected by sealing caps.

（9）线缆连接器不能承受持续性的机械拉伸。线缆最好保持固定不变。

The connector should not be under continuously mechanical tension or stretching.



The connectors or cables are recommended to be fixed.

(10) 出于安全原因，公司建议，不要使用无镀锡线缆或 PVC 线缆。

Cable which used to connect with the connector must be tin plated. PVC cables are prohibited for safety reasons.



这里所说的操作不允许在带电或负载的情况下进行。



No actions mentioned in this document can be carried out on live or load-carrying parts.



终端产品必须提供电击保护。



Electric shock protection is essential in final systems or assured by the end product and its user.



在带电负载情况下，连接器不允许插拔。



Unplugging and plugging are not allowed when the system is under load.

6. 安装说明(Assembly Instructions)

6.1 工具要求 (Tools required)



压线钳

Cable Crimper



剥线钳

Cable Stripper



连接器扳手

Connector Spanners

6.2 线缆准备 (Cable Preparing)



用剥线钳将线缆的保护层和绝缘层剥离 $7.0\pm 1.0\text{mm}$ 的长度。

Strip protector and insulation layers with a length of $7.0\pm 1.0\text{mm}$ using a cable stripper.

注：请勿将线缆铜丝切断，若有切断，请将所有裸露铜丝全部切除后重新剥线。

Note: Do not cut individual strands when stripping, if any strands are cut or broken, cut all the strands at the stripping position and do the stripping again.

6.3 压接（Crimping）

(1) 放置压线端子 Placing the terminal into the crimping position



将压线钳打开至最大，将压线端子开口向上放置到相应的位置。

Open the crimper to maximum position, put the terminal into the corresponding



crimping position according to the cross section of cable, and keep the crimping lugs of terminal upwards.

注：压线钳有3个压线口，最大的（下图右一）为4mm²和6mm²压线位，中间的为2.5mm²压线位。

Note: There are three crimping position in this crimper. The biggest one (the right one in below picture) is for 4mm² and 6mm² cable crimping; The middle one is for 2.5mm² cable crimping.



(2) 固定压线端子 Fixing the terminal



轻压钳臂使上刀模下压至略微卡住端子。

Slowly tighten the crimper so that the terminal is slightly fixed by the crimping dies.



(3) 线缆铆压 Placing the cable and crimping



将剥好的线缆插入铆压位，使线缆的绝缘层靠近端子，完全压紧压线钳。

Insert the stripped cable into the crimping lugs of terminal until the cable protector and insulation comes up against the terminal. Completely press the crimper and tighten the rterminal.

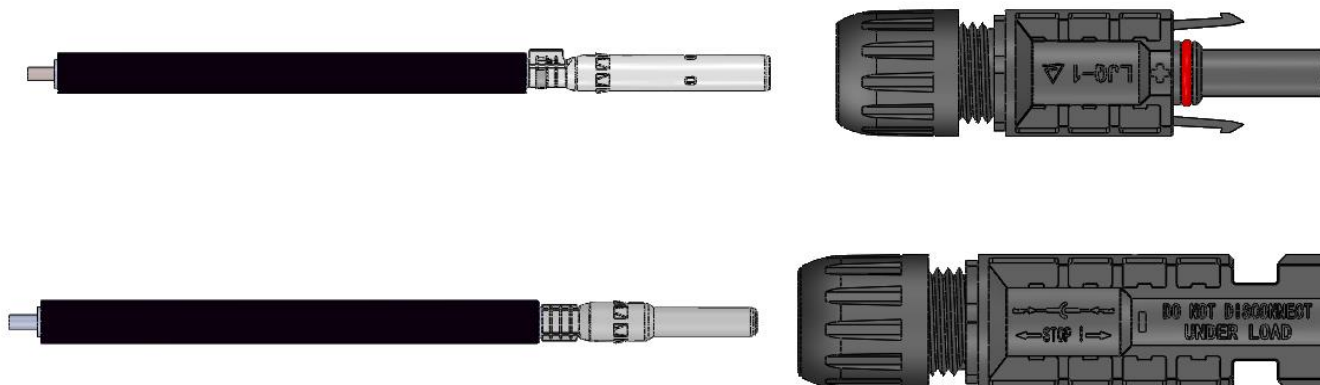
(4) 铆压质量检查 Checking the crimping quality

目视检查铆压好的端子，是否压合到位，是否有铜丝外露、毛刺或飞边。

Visually check the crimp to ensure the terminal is crimped well, no broken parts, no cable strands outside the lugs, and no rags or flashing.

6.4 安装连接器 (Connector body assembling)

(1) 插入端子 Inserting the terminal





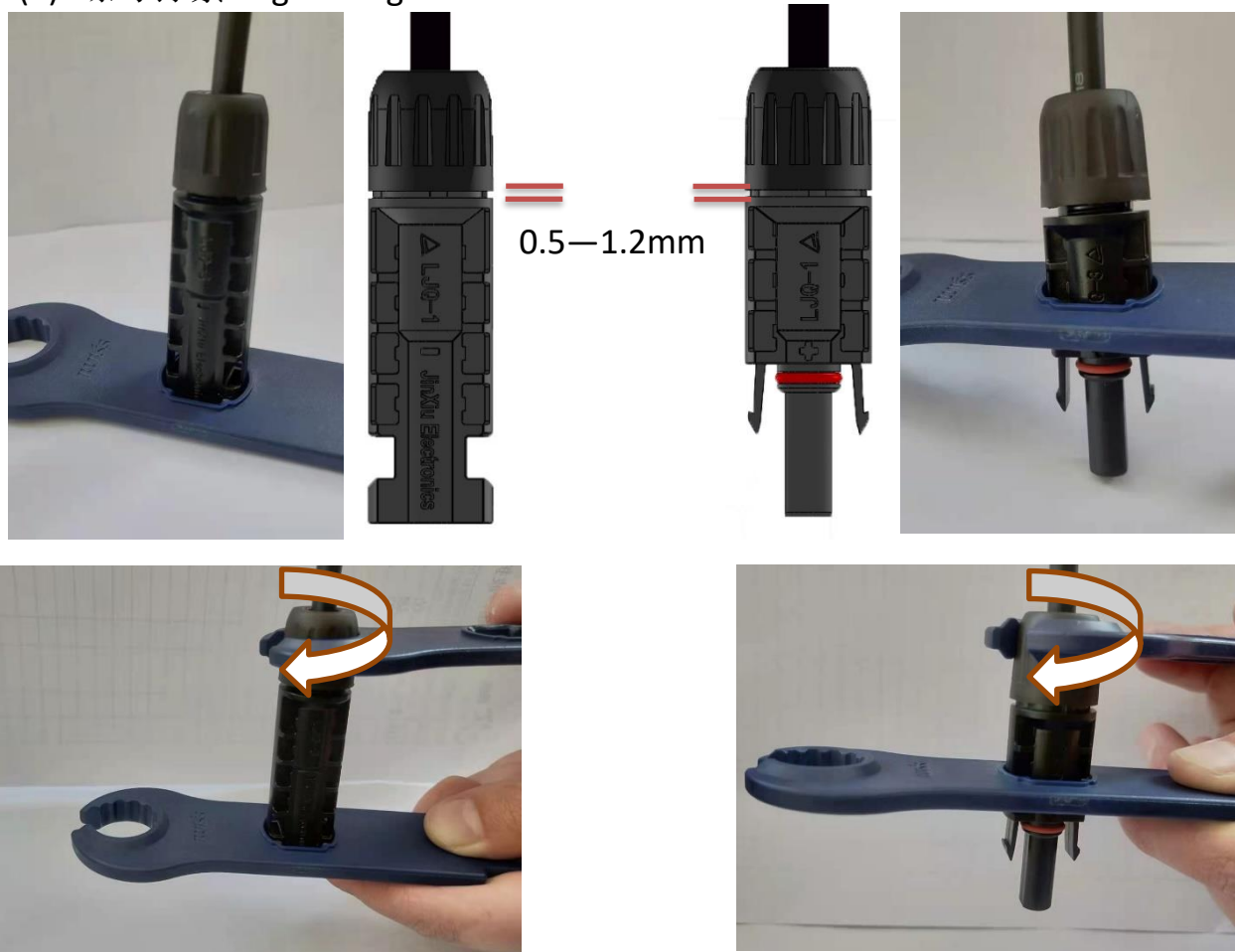
把压好的端子接头插到连接器的绝缘套内，直到听到咔哒一声说明安装到位，轻拉线缆检查金属件是否安装到位。

Insert the crimped terminal in to the corresponding connector body as the pictures above showed, until it gets the right position with a sound like “click”. Pull the cable outwards gently to check if the terminal arrived the right position.

注：螺母中有 T 型圈和花篮，在插入端子时请注意不要顶到 T 型圈和花篮使其失位或变形导致密封失效。

Note: There are a T-ring and a cable grip in the nut of connector body, do not push or change their position when inserting. Wrong placement or shape change may lead to sealing failure.

(2) 螺母拧紧 Tightening the nuts



利用扳手中间的洞固定住连接器，并使用另一只扳手头部的卡扣顺时针拧紧螺母。

Fix the connector body using the middle part of spanner, and tighten nuts using another spanner.



注：拧紧后的螺母离连接器本体的间隙为 0.5mm—1.2mm。

Note: The gap between the nut and connector body is 0.5mm to 1.2mm.

7.附录（Appendix）

7.1 耐化学品附表（Compatibility with chemicals）

附表 1 Appendix Form 1

碳氢化合物 Hydrocarbons	
脂肪 fat	不兼容 incompatible
芳香剂 aromatics	不兼容 incompatible
完全卤化物 complete halides	兼容 compatible
半卤化物 half halides	不兼容 incompatible
酒精 alcohol	兼容 compatible
酚类 phenols	不兼容 incompatible
酮类 ketones	不兼容 incompatible
酯类 esters	不兼容 incompatible
醚 ethers	不兼容 incompatible
各式油污 all kinds of oil	不兼容 incompatible
酸 Acids	
无机物 inorganic acids	不兼容 incompatible
有机物 organic acids	兼容 compatible
氧化物 oxides	不兼容 incompatible
碱 alkalis	不兼容 incompatible
水 Water	
热水 hot water	不兼容 incompatible
环境 Environment	
紫外线 ultraviolet	兼容 compatible