PLUGOOD

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东莞市普乐固技术有限公司
Dongguan PLUGOOD Technology Co., Ltd

普乐固官网　　普乐固企业微信　　普乐固抖音账号

专注工业连接器/线束综合解决方案
Manufacturer of industrial connectors/wire harness solutions

普乐共进 固行求精
Advances Together and Strives for Excellence

www.plugconn.com

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普乐固（PLUGOOD）技术的核心价值观是"普乐共进，固行求精"，着力打造全球性的工业级连接产品服务网络，将业务全面辐射至全球，为客户提供高性能、创新可靠的工业级连接器、工业线束产品一站式解决方案。

The core value of PLUGOOD is "Advances Together and Strives for Excellence". We strive to build a global service network of industrial connectivity products, and provide customers with high-performance, innovative and reliable one-stop solutions of industrial connectors and wire harnesses.

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ABOUT PLUGOOD TECHNOLOGY

关于普乐固

COMPANY INTRODUCTION
公司介绍

东莞市普乐固技术有限公司是一家专注于工业级连接器产品的设计、研发、生产制造、销售于一体的创新型企业，并致力于坚持品牌原创设计理念，旗下自有品牌"普乐固""PLUGOOD"发展历程始于2015年。普乐固(PLUGOOD)汇聚了超过20年行业研发、生产制造和品质经验的强大资深团队，目前获批20余项专利成果，涵盖海内外发明专利和实用新型专利，并于2024年参加德国红点设计奖，其PLG20产品系列已荣获iF设计奖、美国好设计奖及法国设计奖，符合CQC/TUV/UL/CE/ROHS等多项权威认证。

Dongguan PLUGOOD Technology Co., Ltd is an innovative enterprise focusing on design, R&D, manufacturing and sales of industrial connectors. We are committed to adhering to brand's original design. "PLUGOOD" was registered in 2015, and now has developed into a strong team with 20 years' experience in R&D, manufacturing and quality control in the industry. We have obtained more than 20 patents both at home and abroad. In 2024, we have received iF Design Award, American Good Design Award and French Design Award for PLG series. We have also received multiple authoritative certifications such as CQC, TUV, UL, CE and others.

2015

20 years

10 years

普乐固成立于2015年
Plugood was founded in 2015

超20年行业研发经验团队
Experienced R&D Team

品牌历史
Brand History

公司主营业务及产品涵盖户外电子终端连接器、微出行工具连接器、新能源汽车连接器、电缆插头(航空插)、工业线束等各类工业级连接器/线束定制类产品等，拥有应用到各个行业超200多个品种，产品SKU规划近10000+，目前产品被广泛应用于电子通信、工业自动化机械设备、智能制造、机器人、智慧城市物联网、全球定位系统周边、新能源汽车电子、太阳能光伏和风能、户外LED(路灯、显示屏、亮化)、船舶航海、微出行工具(电动自行车、电动摩托车、电动滑板车)、轨道交通、城市管理监控、会展和演艺行业等众多应用领域市场。

普乐固(PLUGOOD)技术的核心价值观是"普乐共进，固行求精"，着力打造全球性的工业级连接产品服务网络，将业务全面辐射至全球，为客户提供高性能、创新可靠的工业级连接器、工业线束产品一站式解决方案。

We focus on industrial waterproof connectors and custom wire harness. Covering more than 200 categories in various industries, we expect to develop 10000+ SKU. Currently, our products are widely used in electronic communications, industrial automation machinery and equipment, intelligent manufacturing, robots, Internet of Things, GPS, new energy, solar photovoltaics, wind energy, outdoor LED, marine devices, micro-travel tools (e-bicycles, e-motorcycles, e-scooters), transportation, city management monitoring, exhibitions and entertaining industry etc.

The core value of PLUGOOD Technology is "Advances Together and Strives for Excellence". We strive to build a global service network of industrial connectivity products, and provide customers with high-performance, innovative and reliable one-stop solutions.

5
五大类产品
Five categories

10
10个系列
10 Series

10000+
10000余个品种
More than 10000 Skus

30+
远销30多个国家和地区
More than 30 countries and regions

MAIN BUSINESS
主要业务

产品及服务介绍

公司主营业务及产品涵盖户外电子终端连接器、微出行工具连接器、新能源汽车连接器、电缆插头(航空插)、工业线束等各类工业级连接器/线束类定制产品等，拥有应用到各个行业超200多个品种，产品SKU规划近10000+。

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业务特色与优势

技术创新与个性化服务
提供一对一的定制化服务，确保客户满意。

Advantage
Innovation and Customization

目标客户群体

目前产品被广泛应用于电子通信、户外LED、船舶航海、轨道交通100+应用领域市场。

Target Customers
Over 100 industries including electronic communication, outdoor LED, shipping, railway transportation etc.

市场需求

我们紧跟行业趋势，不断调整产品与服务，以满足客户日益增长的需求。

Market Demand
The market demand shows a steady growth trend due to the rise of outdoor sports, the expansion automotive electronics market and the rapid development of the Internet of Things

市场定位

我们将自己定位为技术创新型企业，专注于提供高效、智能的解决方案。

Market Positioning
We position ourselves as a technologically innovative enterprise focusing on providing efficient and intelligent solutions.

COMPANY DEVELOPMENT

发展历程与前景

服务站点
SERVICE
30

研发产品
TARGET SKUS
10000+

解决方案
SOLUTION
8000+

01

SMART FACTORY
智能工厂打造

100%

打造自主标准的连接器综合解决方案
智能制造商,市场占有率显著提高。

Building a smart factory to provide connector solutions, aiming to significantly increase our market share in the industry.

03

AUTOMATED MANUFACTURING COVERAGE
自动化智能制造覆盖率

>80%

COMPANY PROSPECT
公司前景

02

TURNOVER GROWTH
营业额增长

300%

04

FULLY IMPLEMENT BUSINESS INTELLIGENCE INFORMATIZATION OPERATING MODE

实现全维度
商业智能信息化运营式

100%

2015

成立背景和初衷

"普乐固""PLUGOOD"始于2015年,专注工业连接器设计、研发、生产、制造、销售,由创始人洞察市场创立,旨在为全球提供优质产品

Our own brand "PLUGOOD" was founded in 2015 when market economy was growing fast. The owner, Mr. Zhou Hong Jun, who has been successful in cable manufacturing, decided to set up another innovative enterprise focusing on design, R&D, manufacturing and sales of industrial connectors.

2024

里程碑事件

2024年8月,新的工业连接器工厂,研发中心与实验室正式投入使用。

In August 2024,a new factory is set up for manufacturing industrial connectors, including R&D center and Testing Lab.

2024

发展历程中的关键节点

· 获批20项专利成果
· 汇聚超20年行业研发的强大资深团队
· 2024年参加德国红点设计奖及iF设计奖
· 产品符合CQC/TUV/UL/CE等多项权威认证。

· A strong R&D Team with 20 years experience in connector industry.
· Obtained 20 patents on our products.
· Received iF Design Awards
· Obtained CQC/TUV/UL/CE/RoHS etc

2024

过往成就与荣誉

"普乐固"品牌连续多年被评为行业领军企业多次受邀参加国际展会,展示创新成果。

The brand "PLUGOOD" has been rated as a leader in the industry for years; and has been invited to participate in international events to display our innovative designs.

QUALIFICATION & CERTIFICATES

资历认证

iF DESIGN AWARD 2025

东莞市普乐固技术有限公司是一家专注于工业级连接器产品的设计、研发、生产制造、销售于一体的创新型企业，并致力于坚持品牌原创设计理念，旗下自有品牌"普乐固""PLUGOOD"发展历程始于2015年。普乐固（PLUGOOD）汇聚了超过20年行业研发、生产制造和品质经验的强大资深团队，目前获批20余项专利成果，涵盖海内外发明专利和实用新型专利，并于2024年参加德国红点设计奖，其PLG20产品系列已荣获iF设计奖、美国好设计奖及法国设计奖，符合CQC/TUV/UL/CE/ROHS等多项权威认证。

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◎ 荣获三大设计奖项
Won three major design awards

iF Design Award
French Design Award
American Good Design Award

美国好设计奖	法国设计奖	iF设计奖
American Good Design Award	French Design Award	iF Design Award

◎ 品质体系认证
Quality system certification

ISO9001
ISO14001
ISO13485
IATF16949

ISO9001	ISO14001	ISO13485	IATF 16949

◎ 产品专利
Product patent

US Patent
Europe Patent
UK Patent
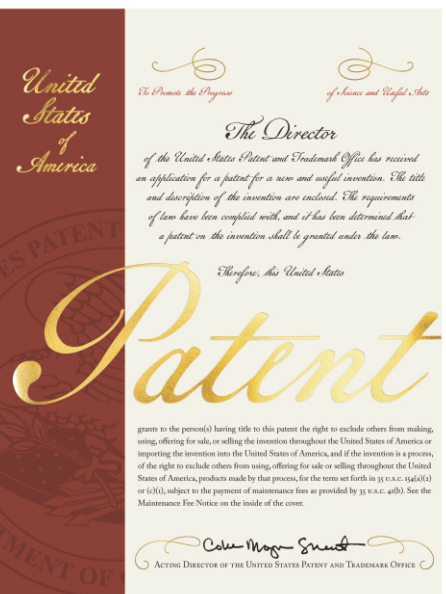
美国发明 专利	英国外观专利
US Patent	UK Patent

欧盟外观专利 Europe Patent

◎ 安规体系认证
Safety system certification

TUV SUD
CE UL
CQC

TUV	CE	CQC
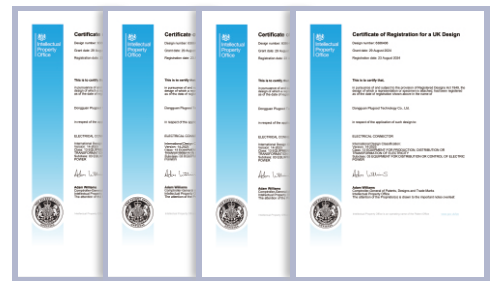
CORE ADVANTAGES
核心优势

OUR TEAM
研发团队

普乐固研发团队近20人，团队成员拥有丰富的产品开发经验，大多曾供职于国际连接器大厂 – TE，Amphenol等，目前已经申请超过20项专利技术，并已经获得多个专利证书。

Strong R&D Team: over 20 engineers with rich experience in connectors, most of them have worked for brands like Amphenol, TE and so on. Products designed and developed by ourselves have obtained more than 20 patents.

02
档案管理5%
Profile

04
项目管理10%
Management

01
设计开发50%
R&D

03
工艺制造20%
Procedure

05
测试15%
Test

DEVELOPMENT PROCESS
产品开发流程

01
订单合同评审
Order Evaluation

02
产品设计开发
Product Development

03
过程设计开发
Design and Sample

06
生产
Production

05
过程验证
Pre-production Test

04
产品设计验证
Sample Test
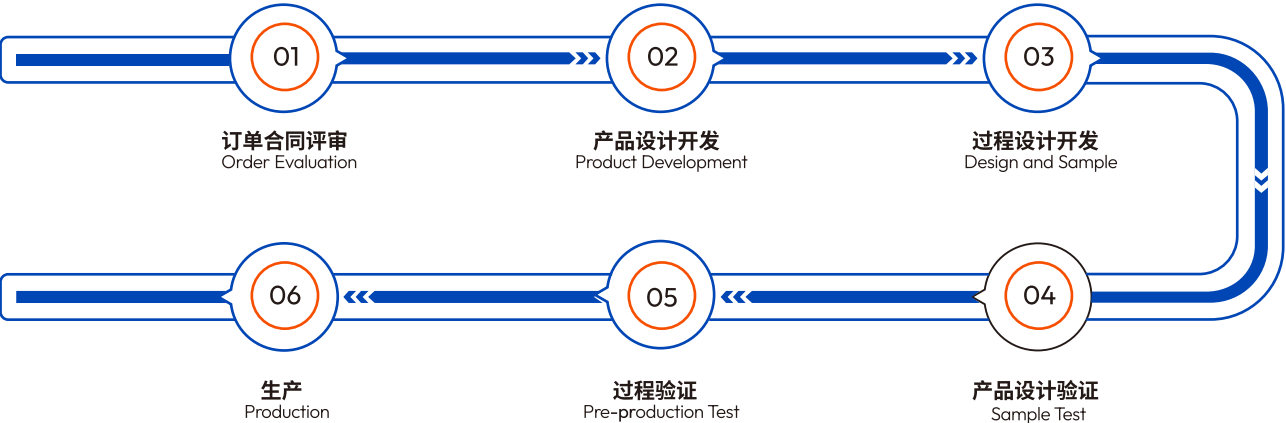
QUALITY CONTROL PROCESS
品质管控流程

01
进料检验INCOMING INSPECTION
*入库前抽样检查所有外购物料，包括主物料、辅料、化学品等物料
*依据品质检验规范和抽样计划

* All outsourced materials including main materials, auxiliary materials, chemicals and other materials
*AQL & Sampling

02
仓库物料监控MATERIAL MONITORING
*关键物料温湿度控制如端子电子物料电镀产品
*物料有效期监控超出有效期的物料需要重新检验
*物料先进先出管理

*Temperature for main materials such as contact, electronic materials, plated materials.
*Material validity
*First come, first out management

03
制程检验IN PROCESS INSPECTION
*人机料法环测各个环节监控
*要求关键工位首件检验，100%检查产品特殊特性，检验工位扫码
*端子压接工位SPC监控
*产品可追溯性

*Monitoring on all aspects
*First article,100% check on product
*SPC monitor on terminal crimping
*Product traceability

04
出货检验OUTGOING INSPECTION
*依据品质检验规范和抽样计划进行出货检验
*核对出货信息外箱标签包装方式

*AQL & Sampling
*Check details of products, labels，packaging etc.

05
不合格品处理DISPOSAL OF NON-CONFIRMING PRODUCTS
*所有不合格品物料需要MRB TEAM评审
*按照问题升级流程和快速反应流程层层递进确保问题有效及迅速解决

*All defective products need to be checked & approved by MRB team
*Implement a Fast Response System within the problem-solving process to ensure rapid resolution of critical issues.

防尘 | 防水 | 防震
Dust-proof | Water-proof | Anti-vibration

PRODUCT
产品篇

APPLICATIONS
—应用领域

　　普乐固（PLUGOOD）产品广泛应用于太阳能光伏、电子通信、自动化设备、智能交通、新能源、物联网、机械设备、仪器仪表、船舶、车载设备、户外灯具照明、植物生长灯、清洁设备、医疗设备、安防、LED显示等众多应用领域市场。

　　PLUGOOD products are widely used in various fields such as solar photovoltaics, electronic communications, automation equipment, intelligent transportation, new energy, Internet of Things, machinery, instruments and meters, marine equipment, automotive equipment, outdoor lighting, plant growth lights, cleaning equipment, medical devices, security and LED displays etc.

PRODUCT INTRODUCTION

产品介绍

产品系列

◎ PLG
按扣自锁连接
Snap-on Quick Locking Connectors

◎ PLT
螺纹连接器
Thread Locking Connectors
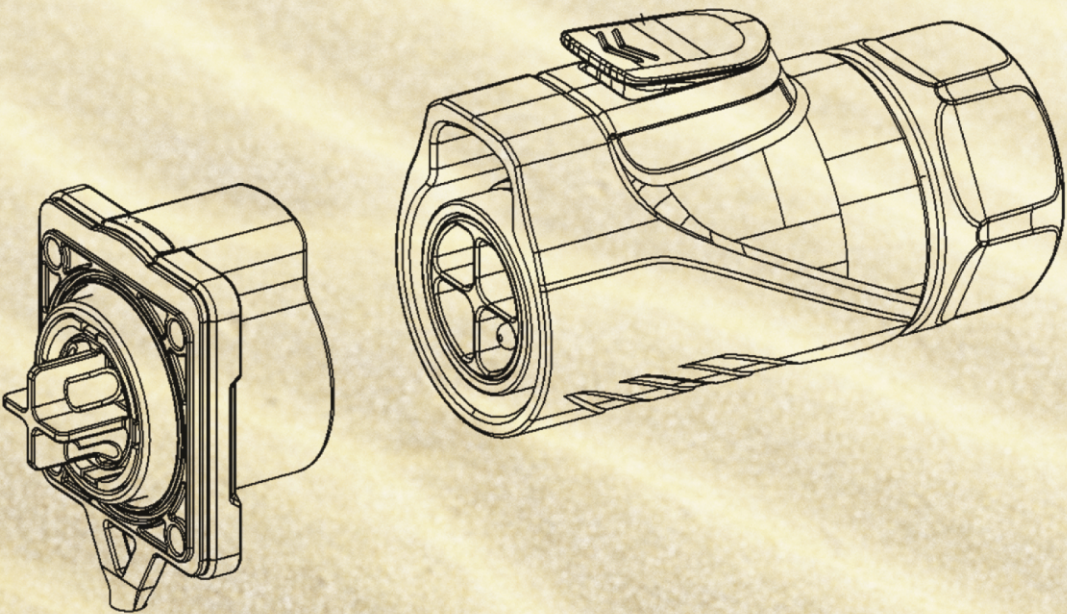
◎ PLB
卡扣连接器
Bayonet Connectors

◎ PLS
卡扣自锁连接
Bayonet Self-locking Connectors

◎ PLP
推拉自锁连接
Push-pull Self-locking Connectors

技术参数
Technical Parameters

产品 (正反装) Products (normal/reverse mount)	产品型号 Part No.	电源+信号 Power + Signal	数据 Data	混合 Hybrid cores	
	M14	2/3/4/5/7/8/9/10/12 PIN	Type-c	2+4	支持定制 Customization is available
	M16	2/3/4/5/7/9/10/14/16 PIN	RJ45/光纤 RJ45/Fiber	2+6	
	M20/M24	2/3/4/5/7/9/12/16 PIN	RJ45 USB2.0/USB3.0 HDMI2.0/ Fiber	2+6 2+1+5 2+1+7 3+3	

技术参数
Technical Parameters

产品 (正反装) Products (normal/reverse mount)	产品型号 Part No.	电源+信号 Power + Signal	数据 Data	混合 Hybrid cores	
	M28	2/3/4/5/7/8/9/10/14/16 17/20/24/26/35/37 PIN		2+1+7 2+8 3+8 6+5	支持定制 Customization is available
	M36	2/3/4/5/7/8/9/10/12/16 24/32/48/64 PIN		2+1+12 3+8 3+12	

防尘 | 防水 | 防震
Dust-proof | Water-proof | Anti-vibration

工业级连接器
Industrial Level Connector

IP67标品/IP68可选
IP67(standard) / IP68(optional)

普乐共进 | 固行求精
Advances Together and Strives for Excellence

PLG

系列

PLG-按扣式快捷连接器
PLG Snap-on Quick Locking Connectors

PRODUCT SERIES
PLG20 产品系列

◎ 焊接款/锁线款
Soldering/Screw Locking Type

PLG -按扣式快捷连接器
PLG Snap-on Quick Locking Connectors

PLG 专利按扣式一键插拔，单手操作实现秒级拆装，防护等级达IP68，通过最低72小时耐盐雾测试，适配海洋平台、化工设备等高腐蚀场景。内部采用镀金铜针接触件，导电稳定，绝缘阻抗≥500 MΩ，插拔寿命可超1500次；外壳选用进口PBT工程塑料，耐温范围-25℃~105℃，抗冲击、阻燃性优异，确保极端温差及震动环境下的可靠连接。该系列支持模块化组合，涵盖电源、信号、数据等多类型，兼容工业自动化、新能源储能、轨道交通及户外通信设备等领域，以军工级品质简化复杂环境布线，为全球工业互联提供安全、耐久的解决方案。

The patented Snap-on quick locking connectors allow one-handed operation of assembly and disassembly. The protection level reaches IP68 and it has passed the minimum 72-hour salt spray test, making it suitable for high-corrosion scenarios such as offshore platforms and chemical equipment. The interior uses gold-plated copper pin contacts which are stable in conductivity with insulation resistance ≥500 M and a plug-in life of more than 1,500 times. The outer shell is made of imported PBT engineering plastics with a temperature resistance range of -25°C to 105°C excellent impact resistance and flame retardancy ensuring reliable connection in extreme temperature differences and vibration environments. The series supports modular combinations, covering multiple types such as power, signal and data and is compatible with industrial automation, new energy, rail transit and outdoor communication equipment. It simplifies wiring in complex environments with military-grade quality and provides safe and durable solutions for global industrial interconnection.

◎ **主体材料、工艺及表面处理：**
Main materials, processes and surface treatment

外 壳： Shell	材料：工程塑胶/金属 Material: Plastic/Metal	生产工艺：压铸与注塑 Process: Die casting and injection molding	表面处理：镀铬 Surface: Chrome

◎ **模块材料、工艺及表面处理：**
Module materials, processes and surface treatment

接触件： Contacts	材料：公/母针(铜 合金) Material: Male/Female Pin (Copper Alloy)	生产工艺：机加工&冲压 Process: Machining & Stamping	表面处理：镍底镀金/银 Surface: Gold/silver plated over nickel
LC光纤接触件： LC fiber optic contacts	材料：公/母端(高模量 玻璃纤维)纤维) Material: Male/Female (High Modulus Fiberglass) Fiber		
绝缘体： Insulator	材料：工程塑料 Material: Engineering Plastic	生产工艺：注塑成型 Process: Injection molding	

◎ **系列产品信息：**
Series product information

系列编码： By Series	PLG 20、PLG16、PLG14、PLG24、PLG28、PLG36……持续开发中 PLG 20, PLG16, PLG14, PLG24, PLG28, PLG36…Under continuous development	
开孔尺寸： By Hole Size	详细开孔尺寸请参考外观尺寸图 For detailed opening dimensions, please refer to the appearance dimension drawing	
应用类型： By Application	多PIN类:2、3、4、5、7、9、12、16、24芯及定制2+6、2+2、6+5芯等 信号类:RJ45、光纤-单纤/双纤 数据类:USB2.0、USB3.0、HDMI2.0、Type-c	Multi-PIN type: 2, 3, 4, 5, 7, 9, 12, 16, 24 cores and customized 2+6, 2+2, 6+5 cores, etc. Signal type : RJ45, optical fiber-single fiber/dual fiber Data type : USB2.0, USB3.0, HDMI2.0, Type-c
材质类型： By Materials	塑胶款/半金属款/全金属款 Plastic/Semi-metal/Full metal	

◎ **系列简介：**
Series Introduction

产品类型包含电源、多芯、混合、USB2.0、USB3.0、HDMI、RJ45、光纤、Type-c九大类，塑胶外壳，重量轻，韧性好，金属外壳，抗冲击强度高，采用按扣式锁定，可单操作，操作简单，安全可靠。

This series include nine categories: power, multi-core, hybrid, USB2.0, USB3.0, HDMI, RJ45, optical fiber and Type C. Plastic shell is light in weight and has good toughness. The metal shell has high resistance. The snap-on locking mechanism allows you to operate with one hand. It is simple to operate, safe and reliable.

◎ **包装与储存：**
Packaging and storage

产品采用夹链自封袋，大包装箱有小包装盒，小包装盒上贴有标签，标签 上注明产品名称、型号、批号、及产品数量。包装好的产品建议应储放在环境湿度为25℃±3℃，相对温度<72%，周围空气 中无酸性、碱性等腐蚀气体的库房内，其他 储存环境可能会影响产品使用寿命。

The product is packed in ziplock bags. The large packaging box has small packaging boxes. The small packaging boxes are labeled with the product name, model, batch number, and product quantity. It is recommended that the packaged products should be stored in a warehouse with an ambient temperature of 25°C±3°C, a relative humidity of <72%, and no acidic, alkaline or other corrosive gases in the surrounding air. Other storage environments may affect the product life.

◎ **登陆官网PLG系列专区：**
Log in to the official website PLG series area

请扫下面二维码登陆普乐固官网PLG专区，如有疑惑可以联系在线客服获取更详尽的产品信息。

Please scan the QR code below to log in to the PLG section of the PLUGOOD official website. If you have any questions, you can contact the online customer service to obtain more detailed product information.

普乐固官网PLG专区二维码

防尘
Dust-proof

防水
Water-proof

防震
Anti-vibration

类 别   款 式

◎ 电源类
Power

3芯 正装
3Pin Forward Mount
半金属套装
Semi-metal 3 Pin Four-hole Set
焊接款/锁线款
Soldering/Screw Locking Type
30A 2芯/3芯可选
2Pin/3Pin

4芯正装
4Pin Forward Mount
半金属套装
Semi-metal 4 Pin Four-hole Set
焊接款/锁线款
Soldering/Screw Locking Type
20A 2/3/4芯可选
2Pin/3Pin/4Pin

7芯正装
7Pin Forward Mount
半金属套装
Semi-metal 7 Pin Four-hole Set
焊接款/锁线款
Soldering/Screw Locking Type
10A 5芯/7芯可选
5Pin/7Pin

◎ 信号、数据类
Signal& Data

USB带线款
USB with cable
半金属套装
Semi-metal Set
单航空插头/双航空插头
Single Aviation Connector/
Dual Aviation Connectors
USB2.0/3.0可选
USB2.0/3.0

光纤带线款
Fiber Optic with cable
半金属套装
Semi-metal Set
带铠款/不带铠款
With/without armor
单纤/双纤可选
Single fiber/dual fiber

RJ45套装
RJ45 Set
半金属套装
Semi-metal Set
带线款/不带线款
With/without cable
Cat6/Cat5e可选
Cat6/Cat5e

HDMI套装
HDMI Set
半金属套装
Semi-metal Set
带线款/不带线款
With/without cable
HDMI2.0/2.1可选
HDMI2.0/2.1

16芯正装
16Pin Forward Mount
半金属套装
Semi-metal Set
焊接款/锁线款
Soldering/Screw Locking Type
5A 9/12/16芯可选
9Pin/12Pin/16Pin

2+6芯套装
2+6Pin Set
半金属套装
Semi-metal Set
焊接款/锁线款
Soldering/Screw Locking Type
混合连接器可定制
Hybrid connectors can be customized

APPLICATION SCENARIO

FEATURES OVERVIEW

特点概述

01
◉ 焊接款/锁线款
Soldering/Screw Locking Type

02
◉ 半金属/全金属/全塑胶款
Semi-metal/All-metal/all-plastic

03
◉ 正装 / 反装
Forward /Reverse Mount

◎ **可搭配母座**
Socket Available

金属四孔法兰母座
Metal Four-hole Flange Socket

金属单孔面板母座
Metal Single-hole Panel Socket

金属对插母座
Metal Butt Socket

快捷方便
Fast and convenient

PLG系列采用按扣式连接 设计，即插即用，单手操作，快 捷方便。

The PLG series snap-on quick locking system allows you to connect and disconnect with a single hand, plug and play, fast and convenient.

耐严寒、耐高温
Resistant to severe cold and high temperature

可适应广域的高低温环境温度，塑胶款 为-25~+105℃，全金属款为-40~+125℃.

It can adapt to a wide range of high and low temperature environments. The plastic model is -25 to +105℃, and the all-metal model is -40 to +125℃.

高防水性能
High waterproof performance

产品在连接状态下可达到IP68防护等 级以上，目前标配IP67，用户可根据需求选 配IP67/IP68级别

The product can achieve a protection level of IP68 or above when connected. Currently, it is equipped with IP67 standard, and users can choose IP67 or IP68 levels according to their needs

户外应用场景
Outdoor application scenarios

特点概述
Feature Overview

颜色可定制, 您的专属款

PLG系列采现可提供外壳主体全金属款黑色、金属、锖色、钛空灰等色系的定制服务, 满足用户的个性化需求。

PLG series can now tailor colors like black, gun-metal, tarnish, titanium gray and any other colors for the full-metal connectors to meet customers' personalized requirement.

安装方式灵活, 适应不同场景

PLG系列有单孔螺纹座、四孔法兰座、移动对接三种安装方式可选, 用户可根据实际应用场景选择。

The PLG series has three installation options: single-hole panel mount, four-hole flange mount and mobile docking. Users can choose according to the actual application scenario.

多种接线方式, 用户随心选

PLG系列提供锁螺丝与焊接两种接线方式的产品类型, 锁线快捷方便, 焊接加压更牢靠。

The PLG series provides two types of connection: screw locking and soldering. Screw locking is quick and convenient, while soldering is more reliable.

密封防尘盖, 颜色可定制

密封防尘盖标配黑色, 可多色选择, 满足用户个性化需求。

The sealed dust cover comes in black as standard, and is available in multiple colors to meet the user's personalized needs.

产品结构图
Product Structure

金属按扣
Lock Button

防尘盖
Silicone Cover

插座模块组件
Internal Component

安装螺丝
Flange Socker

金属外壳
Flange Receptacle Shell

PBT外壳
PBT High Performance Shell

插头模块组件
Connector Assemblies

尾部组件
Tail Component

色环
Waterproof Ring

螺帽组件
Fasten Nut
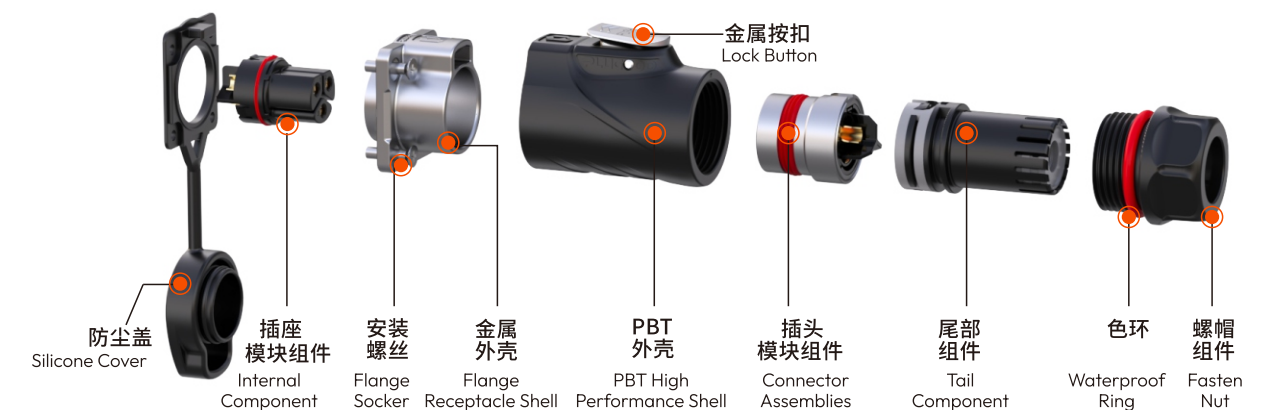
NEW RELEASE
新品推荐

PLG20 弯头设计
PLG20 Angled Connector Series

普乐固（PLUGOOD）PLG系列应用防水连接器，采用自主专利按扣式连接方式，可实现一键插拔，单手操作，适用于各种快捷高效操作场景。产品采用多重专利防水结构设计，具备高防水性能，可避免外部水液侵入；PLG系列产品整体外观简约大气，符合人体工学设计原理，可满足不同场景对抗干扰、高强度、高耐蚀等差异化诉求。

PLUGOOD PLG series waterproof connectors adopt patented snap-on locking mechanism, making it possible to connect and disconnect with a single hand, plug and play, fast and convenient. They are efficient for various applications. The product adopts multiple patented waterproof structure design, provides significantly high waterproof performance. The overall appearance of PLG series products is simple and asthetic, conforming to the ergonomic design principle and can meet the demands of anti-interference high strength, high corrosion resistance etc. in different scenarios.

系列产品信息：
Series product information

系列编码： By Series	PLG 20、PLG16、PLG14、PLG24、PLG28、PLG36……持续开发中 PLG 20, PLG16, PLG14, PLG24, PLG28, PLG36...Under continuous development
开孔尺寸： By Hole Size	详细开孔尺寸请参考外观尺寸图 For detailed opening dimensions, please refer to the appearance dimension drawing
应用类型： By Application	多PIN类：2、3、4、5、7、9、12、16、24芯及定制2+6、2+2、6+5芯等 Multi-PIN type: 2, 3, 4, 5, 7, 9, 12, 16, 24 cores and customized 2+6, 2+2, 6+5 cores, etc. 信号类：RJ45、光纤-单纤/双纤 Signal type: RJ45, optical fiber-single fiber/dual fiber 数据类：USB2.0、USB3.0、HDMI2.0、Type-c Data type: USB2.0, USB3.0, HDMI2.0, Type-c
材质类型： By Materials	塑胶款/半金属款/全金属款 Plastic/Semi-metal/Full metal

安装方式灵活，适应不同场景

PLG20系列有直头带线款、左弯款、右弯款、45°弯头款、90°弯头款、等多种款式可选，用户可根据实际应用场景随心选择。

PLG20 series has straight, left angled, right angled, 45° and 90° connectors available for customers to meet their actual application scenario.

登陆官网PLG系列专区：

需了解更多产品类别请登陆普乐固官网PLG专区，如有疑惑可以联系在线客服获取更详尽的产品信息。

Please log in www.plugconn.com to contact online customer service if you have any questions or need any more detailed information.

Left

Right

45°

90°

PLG SERIES

PLG20 SPECIFICATIONS
PLG20 技术参数

◎ 电源/信号类：
Power / Signal:

端子直径　Contact	3.0mm		2.6mm				1.9mm		1.0mm		
镀　金　Gold Plated	4U″MIN		4U″MIN				2U″MIN		2U″MIN		
芯　数　Number of cores	2芯 2Pin	3芯 3Pin	2芯 2Pin	3芯 3Pin	4芯 4Pin		5芯 5Pin	7芯 7Pin	9芯 9Pin	12芯 12Pin	16芯 16Pin
模块 Product Map — 焊接母模块 Soldering(Female)											
焊接公模块 Soldering(Male)											
锁线母模块 Screwing(Female)											
锁线公模块 Screwing(Male)											

技术参数 Specifications											
额定电压 Voltage	500V AC（可按要求定制）Can be customized								250V AC		
耐高压 Withstanding Voltage	2500V AC（可按要求定制）Can be customized								1500V AC		
额定电流 Rated Current	25A/30A（35A可定制）Can be customized		20A(25A可定制) Can be customized				10A(16A可定制) Can be customized		3A/5A		
绝缘阻抗 Insulation Resistance	500MΩ MIN										
接触电阻 Contact Resistance	1mΩ MAX		1mΩ MAX				2.5mΩ MAX		5mΩ MAX		
防水等级 Protection Level	IP67标品/IP68可选（连接状态下/Connection Status） IP67（IP68 optional）										
机械寿命 Mechanical Life	500 次 MIN (3000及以上可定制)						500 times Min (3000+ times can be customized)				
插拔力 Insertion and Extraction Force	100N MAX										
振动冲动 Vibration Shock	频率：50-1000Hz, Frequency: 50-1000Hz		振幅：5mm,加速度30g, Amplitude: 5mm,Acceleration of 30g				振动时间：10分钟，移位<1.5mm，0.1us无瞬间断路 Vibration Time: 10 minutes, displacement <1.5mm, 0.1us, no instant interruption.				
适用线规　Wire Gauge	12AWG/4mm²(25A) 10AWG(30A)		12AWG/2.5mm²				16-14AWG/1.5mm²		22AWG/0.3mm²(3A) 20AWG/0.5mm²(5A)		
适用线缆外径 Cable OD	Φ5.5-13.0mm（可定制/Customization Available）Can be customized										
盐雾 Salt Spray	72H										
工作温度 Operating Temperature	-25℃~105℃（可定制-40℃~105℃） Can be customized										
认证 Certifications	ROSH/CE/UL/TUV/CQC										

注：以上规格与产品图有所不同，请以承认的产品图为准

芯数（母模块） Number of Pins(Female)	USB2.0	USB3.0	HDMI	Dual Fiber			Single Fiber	Rj45
芯数（公模块） Number of Pins（Male）	USB2.0	USB3.0	HDMI	Dual Fiber			Single Fiber	Rj45
插入损耗 Insertion Loss	/			≤0.3db			≤0.3db	/
回波损耗 Return Loss	/			≥50db			≥50db	/
额定电压 Rated Voltage	5V AC	5VAC	5VAC	/			/	125V AC
额定电流 Rated Current	500mA	900mA	500mA	/			/	1.5A
传输速率 Transmission Rate	480Mbps	5.0Gbps	/					1Gbps 250MHz
耐电压 Withstanding Voltag	300V AC			/			/	1000V AC
绝缘阻抗 Insulation Resistance	10MΩ MIN			/			/	500MΩ MIN
插拔寿命 Mechanical Life	500 次 MIN　　500 times Min							
防水等级 Protection Level	IP67标品/IP68可选（连接状态下/Connection Status)							
振动冲动 Vibration Shock	频率：50-1000Hz，振幅：5mm,加速度30g，振动时间：10分钟， Frequency: 50-1000Hz　　Amplitude: 5mm,Acceleration of 30g　　Vibration Time: 10 minutes,						移位<1.5mm,0.1us无瞬间断路 displacement <1.5mm, 0.1us, no instant interruption.	
适用线规　Wire Gauge	电源:24AWG,信号:30AWG （可定制）Can be customized		26AWG（可定制） Can be customized					30AWG（可定制） Can be customized
盐雾 Salt Spray	72H							
工作温度 Operating Temperature	-25℃~105℃（可定制-40℃~105℃) Can be customized							

注：以上规格与产品图有所不同，请以承认的产品图为准

PLG
SERIES

PLG20
SPECIFICATIONS
PLG20 技术参数

⊙数据类：
DATA

USB/RJ45/光纤/HDMI
USB/RJ45/Fiber/HDMI

PRODUCT SIZE
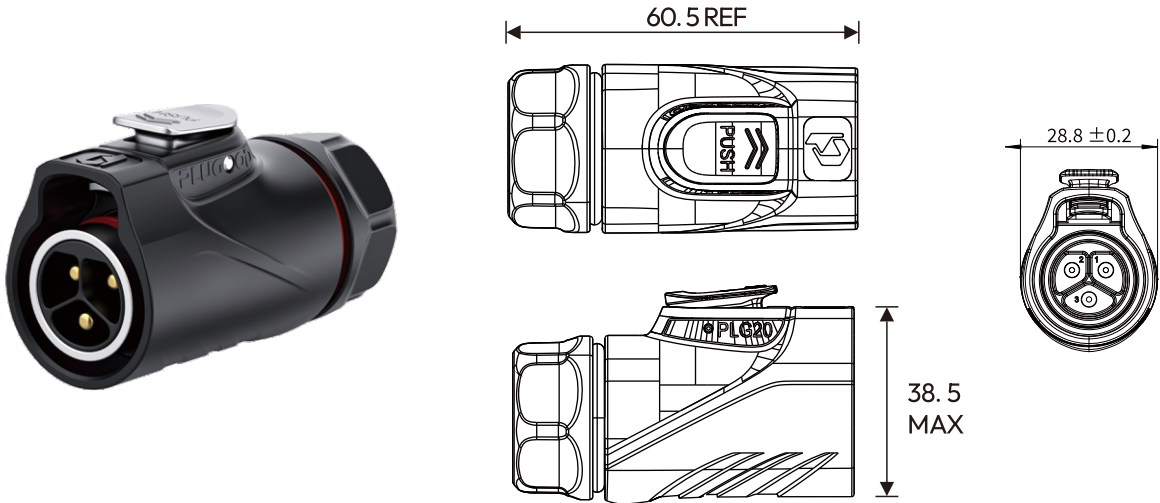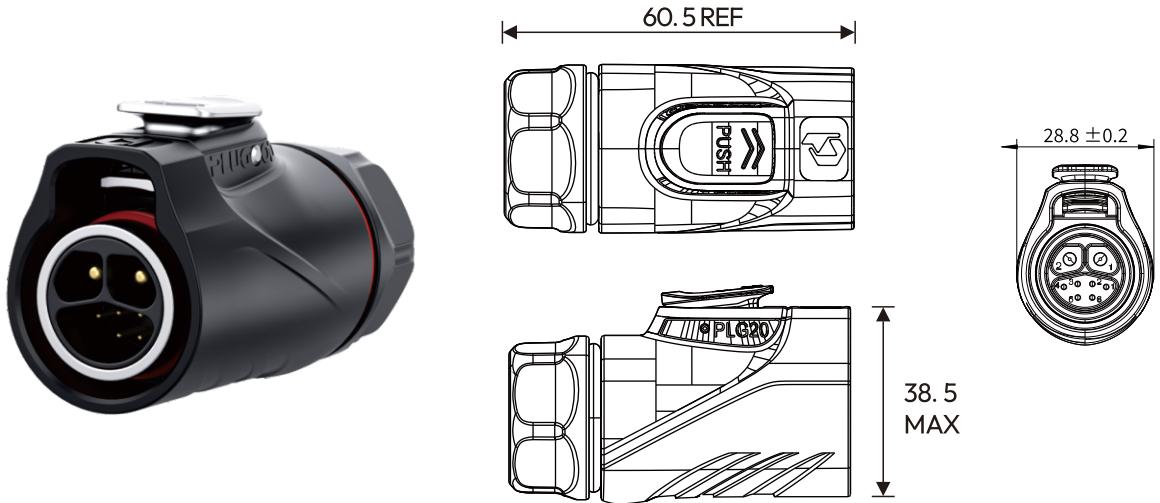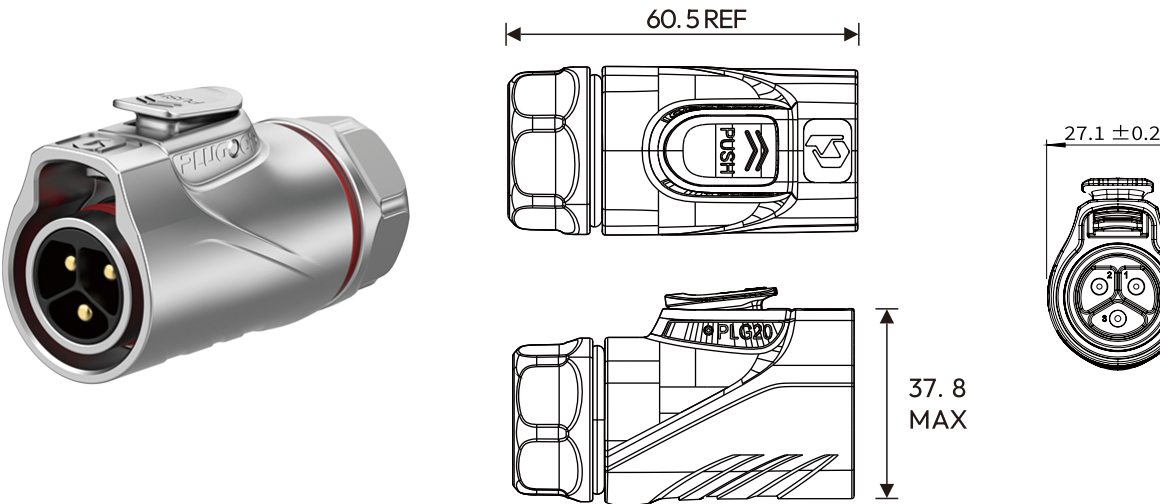## PLG20 产品外观尺寸图

半金属插头
Semi-metal

60.5 REF

28.8 ±0.2
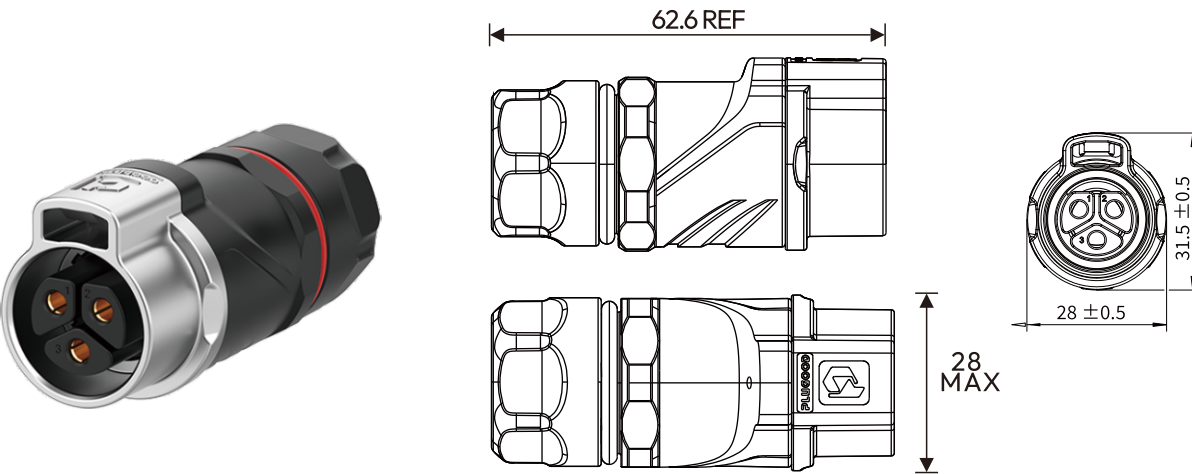
38.5 MAX

全金属插头
Full-metal

60.5 REF

27.1 ±0.2

37.8 MAX

混合芯插头
Hybrid-core

60.5 REF

28.8 ±0.2

38.5 MAX

对接插座
Mating Socket

62.6 REF

31.5 ±0.5

28 ±0.5

28 MAX

PRODUCT SIZE
PLG20 产品外观尺寸图 —

PLG 20 四孔法兰插座（20型）
PLG 20 Four-hole Frange Socket(20)

30 ±0.3
22 ±0.3
17.4 ±0.5
32.3 ±0.3
22 ±0.3
95 MAX

22 ±0.1
4- Ø3.2 ±0.3
22 ±0.1
Ø20.5 ±0.3

四孔座子安装孔尺寸
Mounting Size
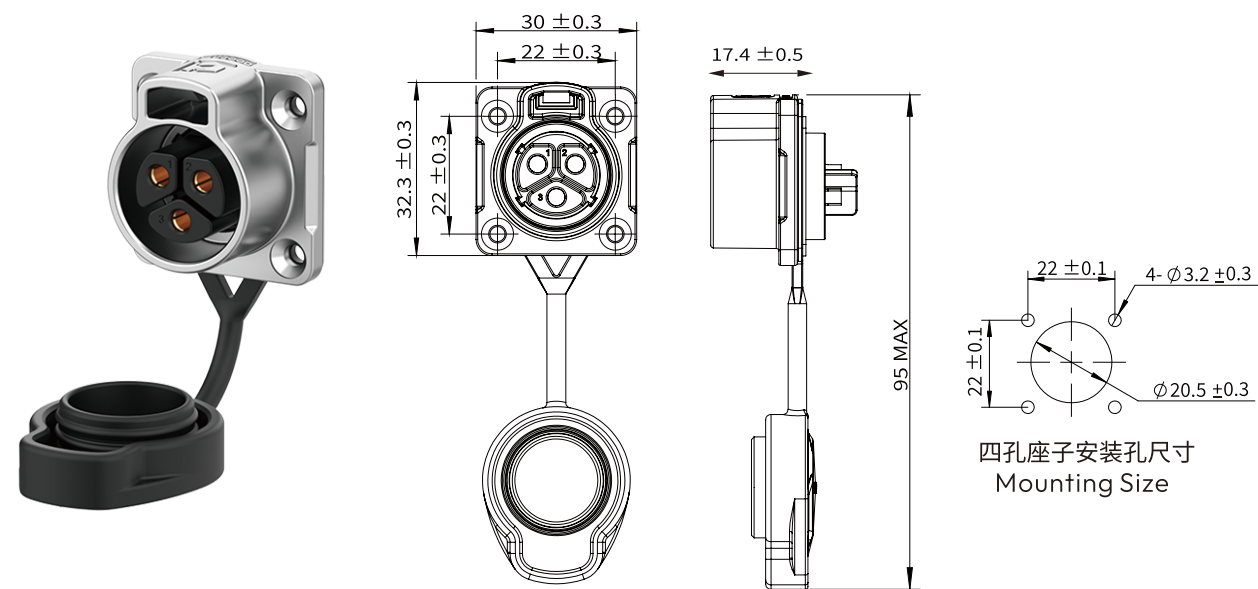
PLG 20 单孔插座
PLG 20 Single-hole Socket

30.2 ±0.5
18.4 ±0.5
14 ±0.2
31.3 ±0.5
95 MAX

20.5 $^{+0.3}_{0}$
Ø22.5 ±0.3

单孔座子安装孔尺寸
Mounting Size
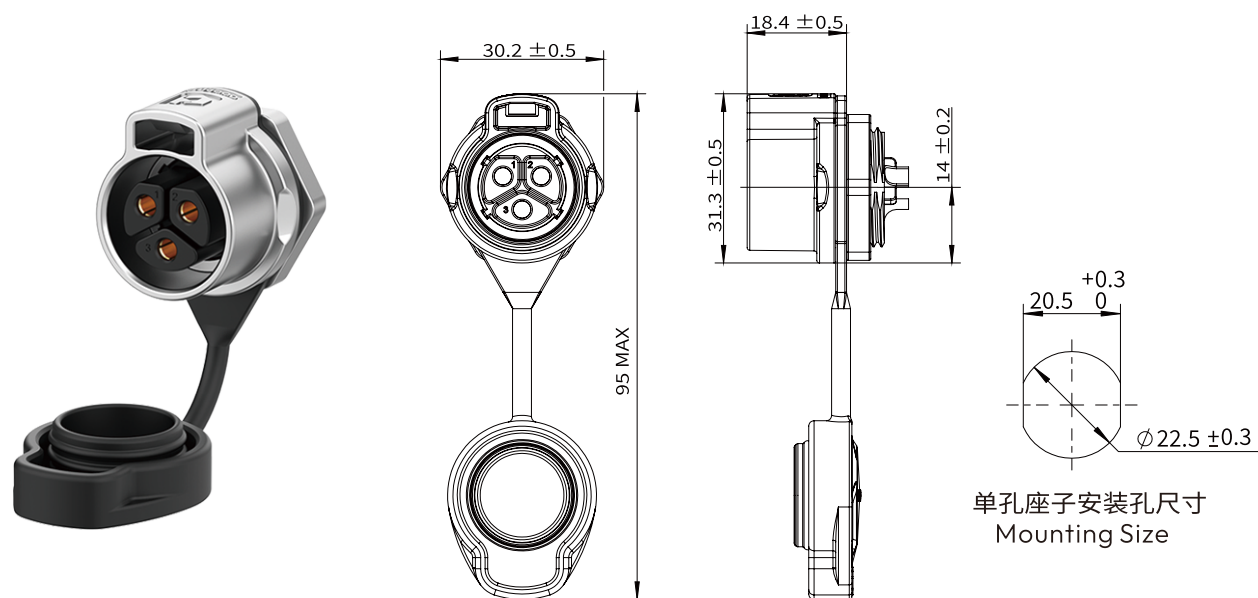
PLG 20 四孔法兰插座（24型）
PLG 20 Four-hole Frange Socket(24)

34 ±0.3
26 ±0.3
17.4 ±0.5
34 ±0.3
26 ±0.3
95 MAX

26±0.1
4- Ø3.2 ±0.3
26±0.1
Ø20.5 ±0.3

24型 四孔座子安装孔尺寸
Mounting Size
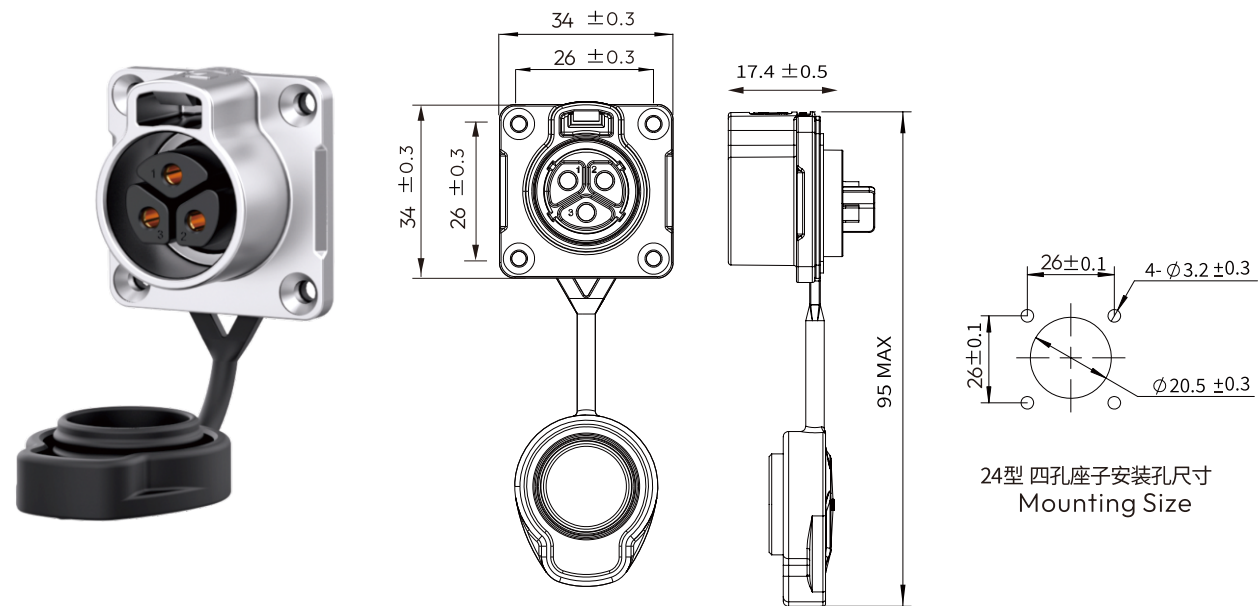
PLG 20 四孔法兰插座（28型）
PLG 20 Four-hole Frange Socket(28)

37 ±0.3
28 ±0.3
17.4 ±0.5
37 ±0.3
28 ±0.3
95 MAX

28mm
4- Ø3.2
28 mm
Ø20.5mm

28型 四孔座子安装孔尺寸
Mounting Size
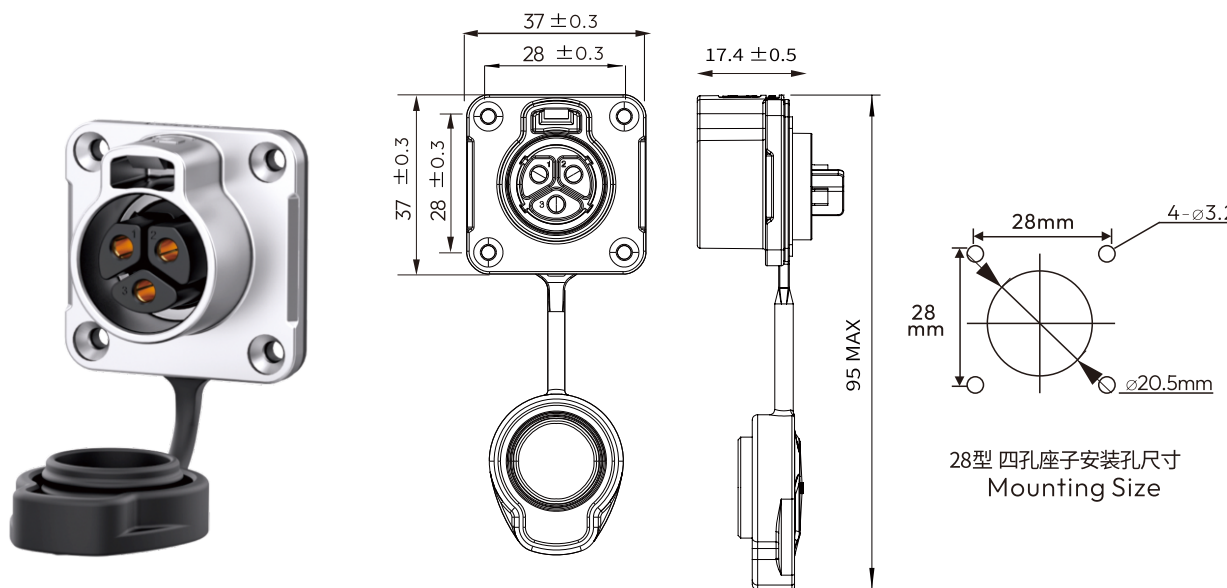
INDUSTRY CASE 行业应用解决方案

◎ 工业自动化设备

工业自动化正成为一种不可逆的趋势。它有效提升了生产效率、降低了企业人力成本和员工操作强度。PLG工业连接器解决方案,帮助工业自动化设备在复杂严苛的工业环境下实现更高效、无延迟、安全可靠的专业连接支持。

Industrial automation is becoming an irreversible trend. It effectively improves the production efficiency and reduces the labor cost and the operation intensity of employees. PLG Industrial Connector solutions help industrial automation equipment achieve more efficient, delay free, safe and reliable professional connection support in complex and demanding industrial environments.

提升效率
Improve efficiency

降低成本
Reduce costs

安全可靠
Safe and reliable

◎ 安防系统

新型视频监控系统、火警探测器、门禁及入侵检测系统等一系列安防系统,是构建现代化宜居宜业生活与工作环境的核心智能技术手段。PLG系列广泛用于各类安防系统,其大容量高清数据的高速传输性能和恶劣环境的高适应性,是实现智慧安防的重要技术保障。

A series of security systems, such as new video surveillance systems, fire detectors, access control systems and intrusion detection systems, are the core intelligent technology means to build a modern and livable living and working environment. The PLG series is widely used in various types of security systems, and its high-speed transmission performance of large-capacity high-definition data and high adaptability to harsh environments are important technical guarantees for realizing smart security.

高清数据
High-definition data

无惧恶劣环境
No fear of harsh environment

高适应性
High adaptability

◎ 通信行业

通信行业快速发展,不断迭代升级,以更加高效迅捷的通信网络构建万物互联的新时代。PLG系列助力终端设备升级,使设备具有更强的适应性,以更快的速度运行。

The communication industry is developing rapidly and constantly iterating and upgrading to build a new era of the Internet of everything with a more efficient and fast communication network. The PLG series helps upgrade terminal equipment, making equipment more adaptable and running at faster speeds.

高效迅捷
Efficient and fast

速度运行
Speed running

迭代升级
Iterative upgrade

◎ 新能源行业产业

随着新能源行业产业的升级,对于连接器的要求更为苛刻。安全、可靠、高效的配电,连接及传导成为新能源行业安全保障的核心与关键。PLG为新能源行业提供高端的连接解决方案。

With the upgrading of the new energy industry, the requirements for connectors are more demanding. Safe, reliable and efficient power distribution, connection and transmission have become the core and key to the security of the new energy industry. PLG provides high-end connectivity solutions for the new energy industry.

提升效率
Improve efficiency

降低成本
Reduce costs

安全可靠
Safe and reliable

◎ 照明产业

新型节能环保的照明技术不断迭代和大面积推广,正推动着整个照明产业从传统的室内和室外照明向生物科技等新兴领域拓展,植物生长灯就是其中案例之一。PLG可靠连接方案在低功耗传输,防水耐腐蚀等高匹配度上充分满足了照明产业更高的连接技术要求。

The continuous iteration and large-scale promotion of new energy-saving and environmental protection lighting technologies are promoting the entire lighting industry from traditional indoor and outdoor lighting to emerging fields such as biotechnology, and plant growth lamps are one of the cases. The PLG reliable connection solution fully meets the higher connection technical requirements of the lighting industry in terms of low power transmission, water resistance and corrosion resistance.

低功耗传输
Low power transmission

防水耐腐蚀
Waterproof and corrosion resistant

高匹配度
High matching degree

项目案例
Project case
- 建筑机器人
  Construction robot
- 餐饮机器人电源
  Food robot power supply
- 信号解决方案
  Signal solution

PLG系列
PLG Series
RJ45

项目案例
Project case
- 道路监控电源
  Road monitoring power supply
- 森林防火自组网
  Forest fire prevention AD hoc network
- 水利监控设备
  Water conservancy monitoring equipment

PLG系列
PLG Series
USB2.0/3.0

项目案例
Project case
- 数据中心与云计算
  Data centers and cloud computing
- 5G通信基站专网电源
  5G communication base station private network power supply
- 通信基站电箱设备
  Communication base station electrical box equipment

PLG系列
PLG Series
光纤Fiber

项目案例
Project case
- 电源系统
  Power supply system
- 太阳能光伏
  Solar photovoltaic
- 风力发电
  Wind power generation

PLG系列
PLG Series
多芯数
Multi-cores

项目案例
Project case
- 植物生长灯
  Plant growth lamp
- 景观照明
  Landscape lighting
- LED灯
  LED light

PLG系列
PLG Series
3芯 3PIN

ABOUT TO PLUGOOD TECHNOLOGY

公司环境与设备

CORPORATE ENVIRONMENT
公司环境 _

普乐固(PLUGOOD)技术的核心价值观是"普乐共进,固行求精",着力打造全球性的工业级连接产品服务网络,将业务全面辐射至全球,为客户提供高性能、创新可靠的工业级连接器、工业线束产品一站式解决方案。

The core value of PLUGOOD is "Advances Together and Strives for Excellence". We strive to build a global service network of industrial connectivity products, and provide customers with high-performance, innovative and reliable one-stop solutions of industrial connectors and wire harnesses.

生产车间
Production workshop

实验室
Laboratory
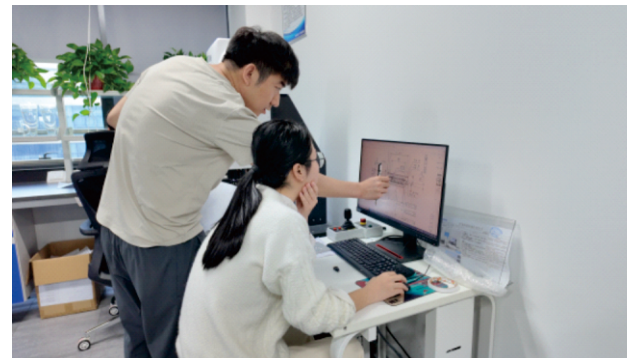
EXPERIMENTAL EQUIPMENT
实验设备 _

影像测试仪 I Image tester
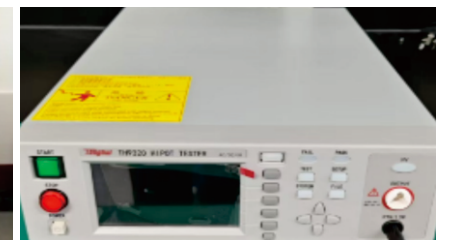
综合测试仪 I Comprehensive tester
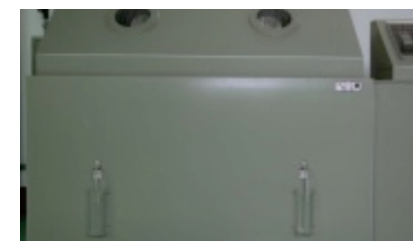
电阻测试仪 I Resistance tester

耐压测试仪 I Withstanding voltage tester

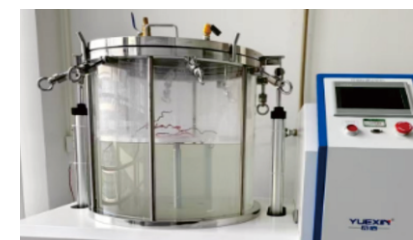直流稳压稳流电源 I DC voltage and power tester

绝缘测试仪 I Insulation tester

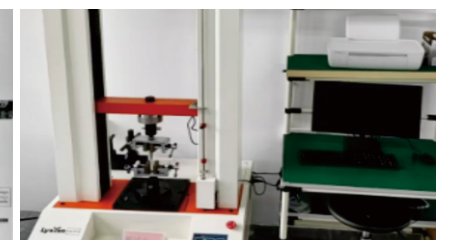盐雾试验箱 I Salt spray tester

高温实验箱 I High temperature tester

寿命试验机 I Life testing machine

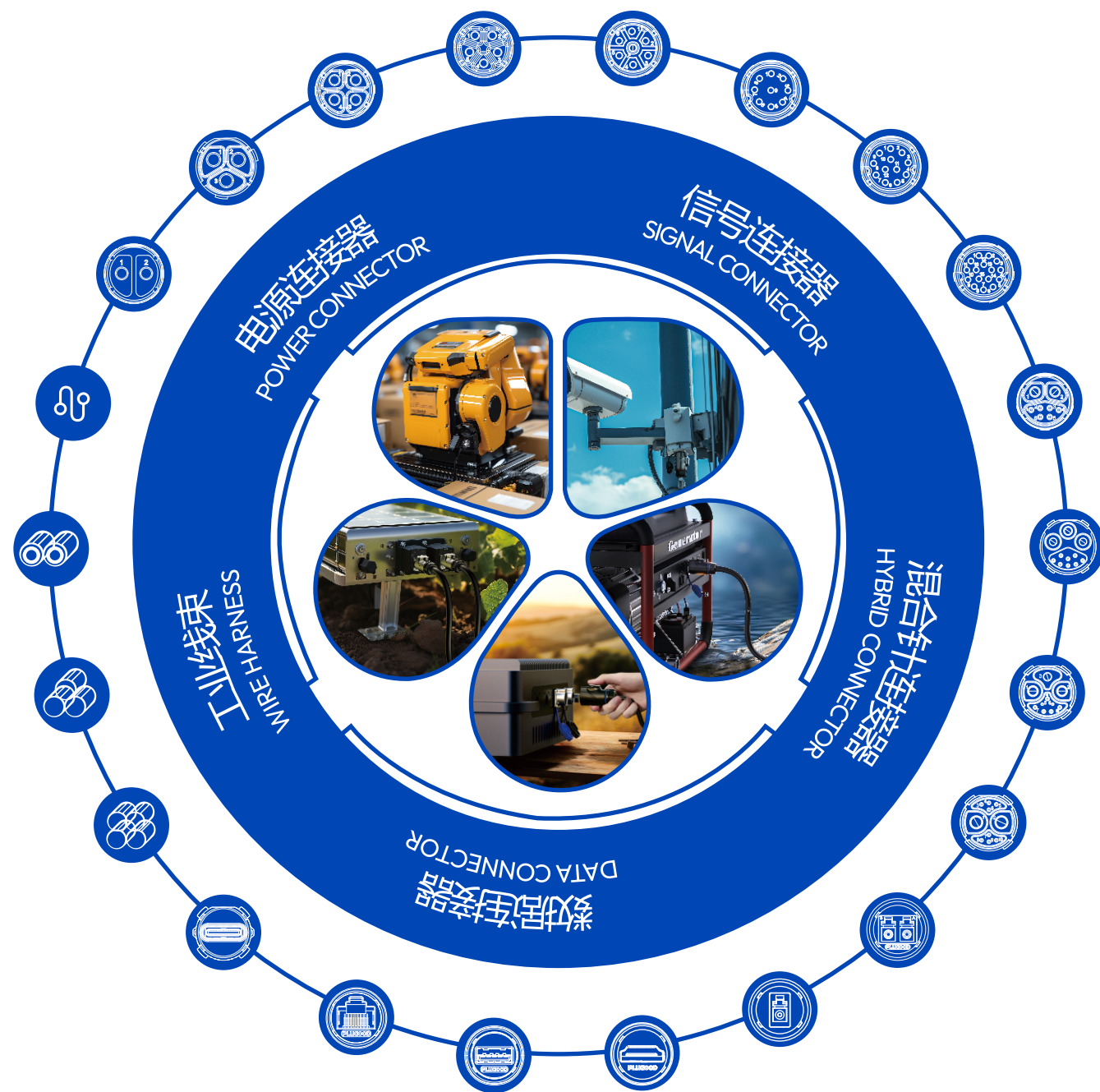可视检漏试验机 I Visual leak test machine

温升测试仪 I Temperature rise tester

材料试验机 I Material testing machine

CUSTOM

电源连接器
POWER CONNECTOR

信号连接器
SIGNAL CONNECTOR

混合针连接器
HYBRID CONNECTOR

工业线束
WIRE HARNESS

数据连接器
DATA CONNECTOR

精工专属定制
CUSTOMIZED FOR YOU

电源连接器、信号连接器、数据连接器、线束等各类热销型号产品，
实力强劲的工程研发团队，可根据您对项目的特定诉求提供定制化的产品服务

Focus on power connectors, signal connectors, data connectors and wire harness etc.
A strong and experienced R&D team that you can count on to tailor the product for you.